APOPKA DEVELOPMENT REVIEW COMMITTEE AGENDA

September 6, 2023 9:00 AM

Apopka City Hall Council Chambers

SPECIAL EVENTS

1. USA Gun Shows of Florida: Gun Show; September 8, 2023, 9:00 AM - 5:00 PM and September 9, 2023, 9:00 AM - 4:00 PM
2. Kindred Pear Exchange LLC: Kindred Pear Exchange - Fall Pop Up; October 1, 2023, 10:00 am - 2:00 PM
3. Cox Media Group: CMG Jingle Jam; December 1, 2023, 6:00 PM- 10:00 PM (TBD)
4. Specialty Pop Up Events: Specialty Pop Ups; October 14, 2023, 11:00 AM - 4:00 PM, November 18, 2023, 11:00 AM - 4:00 PM, December 16, 2023, 11:00 AM - 4:00 PM
5. Beracah 1 French Seventh day Adventist Church: Fundraising Festival; October 29, 2023
6. Epilepsy Association of Central Florida: Jingle, Mingle Tree Festival; December 2, 2023, 4:00 PM - 8:30 PM
7. Reyes Fitness Professional: Turkey Trot; November 18, 2023, 7:00 AM - 11:00 AM

FUTURE LAND USE AMENDMENT

1. HDR - 25 (High Density Residential) Repeal - Future Land Use Amendment

REZONING

1. Plymouth Sorrento Apartments - Planned Development (PD) Rezoning, Master Plan and Development Agreement (DA), 1st Submittal

SITE PLAN:

CONSTRUCTION SITE PLAN

1. Hawthorne Business Center - Construction Site Plan (CSP), 1st Submittal
2. Faircloth Lakes - Construction Site Plan (CSP), 5th Submittal
3. Acadia Orlando Health Apopka - Construction Site Plan (CSP), 1st Submittal
4. Mid Florida South Logistics Park - Construction Site Plan (CSP), 2nd Submittal
5. Ale House Apopka - Construction Site Plan (CSP), 1st Submittal

6. Crossroads at Kelly Park Phase 1-2, 1-3 & 2 Infrastructure and Mass Grading – Revision to Construction Site Plan (CSP), 1st Submittal

7. Wolf Lake Ranch Subdivision - Revision to Construction Site Plan (CSP), 1st Submittal

8. Lux Car Wash Apopka - Construction Site Plan (CSP), 2nd Submittal

PLAT

1. The Ridge - Plat - 1st Submittal

DISCUSSION

ADJOURNMENT

Individuals with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk at least two (2) working days in advance of the meeting date and time at (407) 703-1704. F.S. 286.0105 If a person decides to appeal any decision or recommendation made by Council with respect to any matter considered at this meeting, he will need record of the proceedings, and that for such purposes he may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Any opening invocation that is offered before the official start of the Council meeting shall be the voluntary offering of a private person, to and for the benefit of the Council. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the City Council or the city staff, and the City is not allowed by law to endorse the religious or non-religious beliefs or views of such speaker. Persons in attendance at the City Council meeting are invited to stand during the opening ceremony. However, such invitation shall not be construed as a demand, order, or any other type of command. No person in attendance at the meeting shall be required to participate in any opening invocation that is offered or to participate in the Pledge of Allegiance. You may remain seated within the City Council Chambers or exit the City Council Chambers and return upon completion of the opening invocation and/or Pledge of Allegiance if you do not wish to participate in or witness the opening invocation and/or the recitation of the Pledge of Allegiance.

USA gun show Sept. IAW

- Completed Special Event Permit Application (Online Form or print form can be requested at events@apopka.net).
- Event Description
- A non-refundable application fee of $50.00 or completed application for waiver of permit fee is due when application is submitted. *Staff will contact you about this step.*
- A certificate of general liability insurance listing the "City of Apopka" as 'Additional Insured' must be submitted. Copy of the declaration sheet and endorsement page must be included. Additional insurance may be required, please see the event insurance requirements.
- A site plan (Map) or Parade/Race Route **MUST** be submitted with your application. Map must identify location of staging, tents, parking, barricades, vendors, and restrooms and must be to scale.
- Letter from the property owner granting permission for use of their property. (if on private property)
- If alcohol will be served at your event you must include the alcohol permit and insurance with the completed permit
- Copies of flyers and advertisements.
- Policies and protocols in regards to CDC Guidelines/COVID-19 & social distancing

Applicant must be present for duration of event.

Organization Name	USA Gun Shows of Florida
Name of Applicant	Dorothy Reese (Dotty)
Mailing Address	442 4th Ave
City	Indialantic
State	FL
Zip Code	32903
Cell Phone	8633440452
Email	usagunshows.dotty@gmail.com
Is your organization a Non – Profit (501C3) OR Tax Exempt Organization?	Yes
State of Florida Tax ID Number	1580186677261

A copy of your 501C3 non-profit certificate is required for non-profit status. Otherwise taxes will be charged.

Name of the Event	Apopka Gun Show
Date(s) of the Event	September 8-9 2023
Hours of the Event	Sat 9-5 & Sun 9-4
Location of the Event	Apopka Community Center
Does the location of the event take place on Public or Private Property?	Yes
Anticipated attendance:	500

Briefly describe the event and all activities that will occur during the event:	Trade show for firearms, personal protection items, concealed training classes, and more
Event Category	• Other
Please specify	Trade Show

Are there flyers or advertisements for this event?	Yes
Will there be admission fees to your event?	Yes
Will you be serving alcohol?	No
Is your event open to the public?	Yes
Does your event include food concession?	Yes
Do you intend to have food trucks at your event?	Yes
How many?	1
Will there be merchandising vending at your event?	No
Will they need electric?	No
Will you be hiring a private security company for the event?	Yes
Name of Security Company:	We provide G licensed armed security
Do you require overnight security?	No
Are there musical entertainment features related to your event?	No
Will amplified sound be used during the event?	No
Will any streets be closed or will the flow of traffic be affected by the event?	No
Does your event include the use of tents?	No
Will inflatables be used at your event?	No
Will your event include any fireworks or pyrotechnics?	No

Date/Time (on site load in and load out)

For events that are held on City Property, set up days and load out days may require additional fees.

Setup/Load In

Date	09/08/2023
Start Time	10:00 AM (EDT)
End Time	6:00 PM (EDT)

Event Dates

Date	09/09/2023
Start Time	9:00 AM (EDT)
End Time	5:00 PM (EDT)

Take Down/Load Out

Date	09/10/2023
Start Time	9:00 AM (EDT)
End Time	6:00 PM (EDT)

I, Being the Applicant/Event Organizer, have read and understand the guidelines contained within the City of Apopka's Special Event Permit Application and agree to conduct my event in accordance. I further understand that failure to abide by these guidelines may result in the denial or forfeiture of my Special Event Permit.

The City of Apopka is not responsible for lost, stolen or damaged items.

I acknowledge that the information contained in this application is true, correct, and complete to the best of my knowledge.

Applicant Signature



Name of Applicant	Dorothy Reese-Hoisington
Title of Applicant	Promoter
Date Submitted	08/12/2023

The Applicant/Event Organizer shall maintain at all times throughout the duration of the event, a current insurance policy naming the City of Apopka as an additional insured providing coverage for all approved event activities and must be active on the date(s) of the event, including the set-up and break-down period. Failure to provide proof of adequate coverage will result in the denial of the special event permit or cancellation of the event. The City may require subcontractors acting on behalf of the Applicant/Event Organizer to provide proof of insurance or other related documents depending on the scope or location of the event.

- Comprehensive listing of all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers must be submitted no later than forty-five (45) business days prior to the event.
- All certificates of insurance, required extensions to said insurance certificates, copies of insurance policies and insurance agreements must be submitted no later than **thirty (30) business days prior to the event**.

If insurance requirements are not met at least twenty (20) business days prior to the date of the event, your event will be cancelled!

The City of Apopka defines an Applicant/Event Organizer as any individual or organization that is responsible for all aspects of an event to include advertising, marketing, talent costs, insurance, hold harmless agreement contracts, along with all the revenues and expenses for the event. The Applicant/Event Organizer agrees to conduct this event in accordance with the City of Apopka Code of Ordinances (Chapters 46 and 62).

REQUIREMENTS

- Applicant/Event Organizer recognizes the City's authority to halt the operation of the above listed event due to inclement weather or any other safety concern that may arise.
- The City is not responsible or liable for any damage, loss or theft to any vendor or event participant.
- Applicant/Event Organizer agrees that the City may use photographic images and video taken at the event in promotions and publications. These images may be used online or provided to media outlets and/or used in social media applications.

INSURANCE

Before activity setup, or any other site activity begins, Applicant/Event Organizer must have a Certificate of Liability Insurance **(including all extensions to the insurance certificate—to also include a copy of the complete insurance policy)** on file with the City's Risk Management Division. The cost of such insurance shall be the responsibility of the Applicant/Event Organizer and must meet ALL requirements as directed by the City of Apopka. The City reserves the right to increase coverage as determined for higher risk events or activities. This insurance policy must remain in effect throughout the entire duration of the property use beginning with load-in and ending at the conclusion of load-out.

- Applicant/Event Organizer shall, at its sole cost and expense, procure and maintain throughout the term of this agreement, Commercial General Liability and Workers' Compensation insurance, including Employer Liability insurance, with minimum policy limits of $1,000,000 Combined Single Limits, or to the extent and in such amounts as required and authorized by Florida Law. If such GL insurance contains a general aggregate limit, it shall apply separately to this event in the amount of $2,000,000. Products and completed operations aggregate shall be $1,000,000. Damage to rented premises shall be included at $100,000. The event Applicant/Event Organizer and their representatives who wish to drive on City property to set up or tear down for events, and/or Food Trucks and/or any vehicle that functions as the workplace or is used to perform

contracted work must provide an Automobile Liability insurance policy in the minimum amount of $300,000 Combined Single Limit. If alcohol is being served, the Applicant/Event Organizer shall provide evidence of coverage for liquor liability in the minimum amount of $1,000,000. The insurance policy must not exclude Personal Injury/Advertising Injury, Medical, volunteer coverage or spectator liability.

- All insurance policies shall: 1) provide that the insurance carrier shall not cancel, terminate or otherwise modify the terms and conditions of said policies except upon thirty days written notice to the City's contract administrator; 2) be evidenced by an endorsed Certificate of Insurance generated and executed by a licensed insurance broker, brokerage, or similar licensed insurance professional evidencing such coverage, and naming the City of Apopka as a named additional insured, as well as furnishing the City with a certified copy, or copies, of said insurance policies; and 3) be approved as to form and sufficiency by the City's contract administrator. The original insurance certificate(s) and all extensions to the insurance certificate(s) should be sent to: City of Apopka, Risk Management, 120 East Main Street, Apopka, FL 32703 or e-mailed to riskmanagement@apopka.net. All insurance coverage shall be written with a company having an A.M. Best Rating of at least the "A" category and size category of VIII.
- Applicant/Event Organizer is solely responsible for all applicable policy premiums, deductibles, and/or self-insured retention attached to any required coverages. Said insurance coverages procured by the Applicant/Event Organizer as required herein, including but not limited to any excess and/or umbrella coverages, shall be considered, and the Applicant/Event Organizer agrees that said insurance coverages it procures as required herein shall be considered, as primary insurance over and above any other insurance, or self–insurance, available to the City, and that any other insurance, or self-insurance available to the City shall be considered secondary to, or in excess of, the insurance coverage(s) procured by the Applicant/Event Organizer as required herein.
- Applicant/Event Organizer shall require and verify that all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers, maintain insurance meeting all of the requirements stated herein. Furthermore, the insurance policy held by the Applicant/Event Organizer shall have no endorsement(s) restricting, limiting or excluding the subcontractors or work on behalf of the Applicant/Event Organizer by a subcontractor. The Certificate of Insurance submitted by the Applicant/Event Organizer must clearly state that all such subcontractors are "Named Insureds".

Nothing herein shall be construed to extend the City of Apopka's liability beyond that provided in section 768.28, Florida Statutes.

By signing below, I acknowledge that I have read and understand the insurance requirements contained herein. I further understand that my permit application may be declined if I fail to provide the appropriate insurance coverage.

Signature of Applicant 

Name of Applicant Dorothy Reese

Title of Applicant Promoter

Sponsoring Organization Name USA Gun Show of Florida

$50 permit fee

City of Apopka

3710 Jason Dwelley Parkway
Apopka, FL 32712

407-703-1784
events@apopka.net
https://www.apopka.gov

Registration/Payment Receipt 59936574

08/23/2023 08:33 AM

Account Information
USA Gun Shows of Florida
Brian Carter
442 4th Avenue
Indialantic, FL 32903

Received By
Carolyn Ray at Northwest Recreation Complex

Item	Balance Due	Amount Paid
Special Event Permit Fee	$50.00	$0.00
Change in Balance		$50.00
Account Balance *(As of 08/23/2023 08:33 AM)*		$50.00

Fall pop-up VAW/ACC 10/1/23

- Completed Special Event Permit Application (Online Form or print form can be requested at events@apopka.net).
- Event Description
- A non-refundable application fee of $50.00 or completed application for waiver of permit fee is due when application is submitted. *Staff will contact you about this step.*
- A certificate of general liability insurance listing the "City of Apopka" as 'Additional Insured' must be submitted. Copy of the declaration sheet and endorsement page must be included. Additional insurance may be required, please see the event insurance requirements.
- A site plan (Map) or Parade/Race Route **MUST** be submitted with your application. Map must identify location of staging, tents, parking, barricades, vendors, and restrooms and must be to scale.
- Letter from the property owner granting permission for use of their property. (if on private property)
- If alcohol will be served at your event you must include the alcohol permit and insurance with the completed permit
- Copies of flyers and advertisements.
- Policies and protocols in regards to CDC Guidelines/COVID-19 & social distancing

Applicant must be present for duration of event.

Organization Name	Kindred Pear Exchange LLC
Name of Applicant	Alyssa Altamirano
Mailing Address	1033 Pavia Drive
City	Apopka
State	Florida
Zip Code	32703
Email	kindredpearexchange@gmail.com
Is your organization a Non – Profit (501C3) OR Tax Exempt Organization?	No
State of Florida Tax ID Number	93-2514224
Name of the Event	Fall Pop Up: A Community Event
Date(s) of the Event	Sunday, October 1, 2023
Hours of the Event	10am - 2pm
Location of the Event	Apopka Community Center
Does the location of the event take place on Public or Private Property?	Yes
Anticipated attendance:	150
Briefly describe the event and all activities that will occur during the event:	The event will showcase 20 -30 vendors with booths set up around the venue. The stage will also be utilized with a live performance from a local performer. The public will be permitted to shop and enjoy locally made goods for free admission.
Event Category	• Other

Please specify	Vendor Pop Up
Are there flyers or advertisements for this event?	Yes

Attach Flyer or Advertisement 1 *File(s) attached:*



Will there be admission fees to your event?	No
Will you be serving alcohol?	No
Is your event open to the public?	Yes
Does your event include food concession?	No
Do you intend to have food trucks at your event?	Yes
How many?	3
Will there be merchandising vending at your event?	Yes
How many vendors?	30
Will they need electric?	No
Will you be hiring a private security company for the event?	No
Do you require overnight security?	No
Are there musical entertainment features related to your event?	Yes

Please attach a list of all stage performance schedules.

Will amplified sound be used during the event?	Yes
Will any streets be closed or will the flow of traffic be affected by the event?	No
Does your event include the use of tents?	No
Will inflatables be used at your event?	No
Will your event include any fireworks or pyrotechnics?	No

Date/Time (on site load in and load out)

For events that are held on City Property, set up days and load out days may require additional fees.

Setup/Load In

Date	10/01/2023
Start Time	9:00 AM (EDT)
End Time	10:00 AM (EDT)

Event Dates

Date	10/01/2023
Start Time	10:00 AM (EDT)
End Time	2:00 PM (EDT)

Take Down/Load Out

Date	10/01/2023
Start Time	2:00 PM (EDT)
End Time	3:00 PM (EDT)

I, Being the Applicant/Event Organizer, have read and understand the guidelines contained within the City of Apopka's Special Event Permit Application and agree to conduct my event in accordance. I further understand that failure to abide by these guidelines may result in the denial or forfeiture of my Special Event Permit.

The City of Apopka is not responsible for lost, stolen or damaged items.

I acknowledge that the information contained in this application is true, correct, and complete to the best of my knowledge.

Applicant Signature 

Name of Applicant Alyssa Altamirano

Title of Applicant Co-Owner

Date Submitted 08/09/2023

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If insurance requirements are not met at least twenty (20) business days prior to the date of the event, your event will be cancelled!

Please provide a copy of your certificate of insurance.

File(s) attached:

Certificate of Insurance (SEL).pdf

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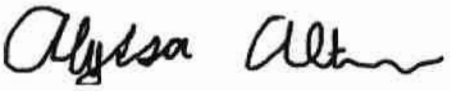
INSURANCE

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- All insurance policies shall: 1) provide that the insurance carrier shall not cancel, terminate or otherwise modify the terms and conditions of said policies except upon thirty days written notice to the City's contract administrator; 2) be evidenced by an endorsed Certificate of Insurance generated and executed by a licensed insurance broker, brokerage, or similar licensed insurance professional evidencing such coverage, and naming the City of Apopka as a named additional insured, as well as furnishing the City with a certified copy, or copies, of said insurance policies; and 3) be approved as to form and sufficiency by the City's contract administrator. The original insurance certificate(s) and all extensions to the insurance certificate(s) should be sent to: City of Apopka, Risk Management, 120 East Main Street, Apopka, FL 32703 or e-mailed to riskmanagement@apopka.net. All insurance coverage shall be written with a company having an A.M. Best Rating of at least the "A" category and size category of VIII.
- Applicant/Event Organizer is solely responsible for all applicable policy premiums, deductibles, and/or self-insured retention attached to any required coverages. Said insurance coverages procured by the Applicant/Event Organizer as required herein, including but not limited to any excess and/or umbrella coverages, shall be considered, and the Applicant/Event Organizer agrees that said insurance coverages it procures as required herein shall be considered, as primary insurance over and above any other insurance, or self–insurance, available to the City, and that any other insurance, or self-insurance available to the City shall be considered secondary to, or in excess of, the insurance coverage(s) procured by the Applicant/Event Organizer as required herein.
- Applicant/Event Organizer shall require and verify that all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers, maintain insurance meeting all of the requirements stated herein. Furthermore, the insurance policy held by the Applicant/Event Organizer shall have no endorsement(s) restricting, limiting or excluding the subcontractors or work on behalf of the Applicant/Event Organizer by a subcontractor. The Certificate of Insurance submitted by the Applicant/Event Organizer must clearly state that all such subcontractors are "Named Insureds".

Nothing herein shall be construed to extend the City of Apopka's liability beyond that provided in section 768.28, Florida Statutes.

By signing below, I acknowledge that I have read and understand the insurance requirements contained herein. I further understand that my permit application may be declined if I fail to provide the appropriate insurance coverage.

Signature of Applicant	
Name of Applicant	Alyssa Altamirano
Title of Applicant	Co-Owner
Sponsoring Organization Name	Kindred Pear Exchange LLC



$80 permit fee

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 08/09/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Eventsured Customer Service
Foresite Sports, Inc. DBA: Eventsured 24 S. Newtown Street Road Newtown Square, PA 19073	PHONE (A/C, No, Ext): 888-882-5902 FAX (A/C, No): E-MAIL ADDRESS: info@eventsured.com
INSURED Kindred Pear Exchange LLC Alyssa Altamirano 1033 Pavia Dr Apopka, FL 32703	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** INSURER A : Houston Casualty Company / 42374 INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** TM301167 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY** X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC	Y	Y	H22SE00130/TM301167	10/01/2023 12:01AM	10/02/2023 2:01AM	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG DEDUCTIBLE	$ 1,000,000 $ 100,000 $ 1,000 $ 1,000,000 $ 2,000,000 $ 1,000,000 $ 0
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS HIRED AUTOS SCHEDULED AUTOS NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $
	UMBRELLA LIAB OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION $						EACH OCCURRENCE AGGREGATE	$ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A					WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, If more space is required)

Additional Insureds must be venue managers or municipalities and are added with respect to our insured's operations only. Waiver of Subrogation (WOS) and Primary & Non-Contributory (PNC) wording applies only when coverage is purchased by the insured, required by written contract and as indicated below. This coverage is with respect to the Bazaar to be held on 10/01/2023 - 10/01/2023 with 175 attendees at Apopka Community Center 519 S Central Ave Apopka, FL 32703. Additional Insureds include: Apopka Community Center 519 S Central Ave Apopka, FL 32703; City of Apopka (WOS & PNC selected).

CERTIFICATE HOLDER

Apopka Community Center
519 S Central Ave
Apopka FL, 32703

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 08/09/2023

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IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Eventsured Customer Service	
Foresite Sports, Inc. DBA: Eventsured 24 S. Newtown Street Road Newtown Square, PA 19073	PHONE (A/C, No, Ext): 888-882-5902	FAX (A/C, No):
	E-MAIL ADDRESS: info@eventsured.com	
	INSURER(S) AFFORDING COVERAGE	**NAIC #**
	INSURER A : Houston Casualty Company	42374
INSURED Kindred Pear Exchange LLC Alyssa Altamirano 1033 Pavia Dr Apopka, FL 32703	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** TM301167 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY** X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC	Y	Y	H22SE00130/TM301167	10/01/2023 12:01AM	10/02/2023 2:01AM	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG DEDUCTIBLE	$ 1,000,000 $ 100,000 $ 1,000 $ 1,000,000 $ 2,000,000 $ 1,000,000 $ 0
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS HIRED AUTOS SCHEDULED AUTOS NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $ $
	UMBRELLA LIAB OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION $						EACH OCCURRENCE AGGREGATE	$ $ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A					WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, If more space is required)

Additional Insureds must be venue managers or municipalities and are added with respect to our insureds operations only. Waiver of Subrogation (WOS) and Primary & Non-Contributory (PNC) wording applies only when coverage is purchased by the insured, required by written contract and as indicated below. This coverage is with respect to the Bazaar to be held on 10/01/2023 - 10/01/2023 with 175 attendees at Apopka Community Center 120 E. Main Street Apopka, FL 32703. Additional Insureds include: Apopka Community Center 120 E. Main Street Apopka, FL 32703; City of Apopka (WOS & PNC selected).

CERTIFICATE HOLDER

Apopka Community Center
120 E. Main Street
Apopka FL, 32703

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



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The ACORD name and logo are registered marks of ACORD

City of Apopka

3710 Jason Dwelley Parkway
Apopka, FL 32712

407-703-1784
events@apopka.net
https://www.apopka.gov

Registration/Payment Receipt 59936586

08/23/2023 08:34 AM

Account Information
Alyssa Altamirano
1033 Pavia Drive
Apopka, FL 32703

Received By
Carolyn Ray at Northwest Recreation Complex

Item	Balance Due	Amount Paid
Special Event Permit Fee	$50.00	$0.00
Change in Balance		$50.00
Account Balance *(As of 08/23/2023 08:34 AM)*		$752.90

Cox Media 1211 Amp.

- Completed Special Event Permit Application (Online Form or print form can be requested at events@apopka.net).
- Event Description
- A non-refundable application fee of $50.00 or completed application for waiver of permit fee is due when application is submitted. *Staff will contact you about this step.*
- A certificate of general liability insurance listing the "City of Apopka" as 'Additional Insured' must be submitted. Copy of the declaration sheet and endorsement page must be included. Additional insurance may be required, please see the event insurance requirements.
- A site plan (Map) or Parade/Race Route **MUST** be submitted with your application. Map must identify location of staging, tents, parking, barricades, vendors, and restrooms and must be to scale.
- Letter from the property owner granting permission for use of their property. (if on private property)
- If alcohol will be served at your event you must include the alcohol permit and insurance with the completed permit
- Copies of flyers and advertisements.
- Policies and protocols in regards to CDC Guidelines/COVID-19 & social distancing

Applicant must be present for duration of event.

Organization Name	Cox Media Group
Name of Applicant	Josh Egolf
Mailing Address	4192 N John Young Parkway
City	Orlando
State	Florida
Zip Code	32804
Cell Phone	14073999044
Email	josh.a.egolf@gmail.com
Is your organization a Non – Profit (501C3) OR Tax Exempt Organization?	No
State of Florida Tax ID Number	83-3721978
Name of the Event	K92.3 Jingle Jam
Date(s) of the Event	Dec 1 2023
Hours of the Event	6p-10p (TBD)
Location of the Event	Apopka Amphitheater
Does the location of the event take place on Public or Private Property?	Yes
Anticipated attendance:	5000
Briefly describe the event and all activities that will occur during the event:	Acoustic country concert featuring 6-9 artists in a guitar-pull style setting (artists sharing the stage in sets); VIP area to include amp seating

$50 permit fee

Event Category	• Concert Performance
Are there flyers or advertisements for this event?	No
Additional Event Information	We will be sending liquor license and COI for review ASAP
Will there be admission fees to your event?	Yes
Will you be serving alcohol?	Yes

If yes for serving alcohol, a copy of your liquor license & insurance is required.

City Council approval is also required.

Is your event open to the public?	Yes
Does your event include food concession?	Yes
Do you intend to have food trucks at your event?	Yes
How many?	5
Will there be merchandising vending at your event?	Yes
How many vendors?	8
Will they need electric?	Yes

Additional fees apply for electric use.

Will you be hiring a private security company for the event?	Yes
Name of Security Company:	Contemporary Services Corporation
Do you require overnight security?	No
Are there musical entertainment features related to your event?	Yes

Please attach a list of all stage performance schedules.

Will amplified sound be used during the event?	Yes
Will any streets be closed or will the flow of traffic be affected by the event?	No
Does your event include the use of tents?	Yes

Please indicate tent location & size on layout. Permits and ground locates may be required.

What size of tents?	sizes will vary from 10x10 for sponsor booths up to 20x60 for VIP
Will inflatables be used at your event?	Yes
Will your event include any fireworks or pyrotechnics?	No
Layout map for event	*File(s) attached:* JINGLE JAM 2023 SITE MAP (V1).pptx

Date/Time (on site load in and load out)

For events that are held on City Property, set up days and load out days may require additional fees.

Setup/Load In

Date	12/01/2023
Start Time	9:00 AM (EDT)
End Time	5:00 PM (EDT)

Event Dates

Date	12/01/2023
Start Time	6:00 PM (EDT)
End Time	10:00 PM (EDT)

Take Down/Load Out

Date	12/01/2023
Start Time	10:00 PM (EDT)
End Time	11:59 PM (EDT)

I, Being the Applicant/Event Organizer, have read and understand the guidelines contained within the City of Apopka's Special Event Permit Application and agree to conduct my event in accordance. I further understand that failure to abide by these guidelines may result in the denial or forfeiture of my Special Event Permit.

The City of Apopka is not responsible for lost, stolen or damaged items.

I acknowledge that the information contained in this application is true, correct, and complete to the best of my knowledge.

Applicant Signature Josh Egolf

Name of Applicant Josh Egolf

Title of Applicant Events Director

Date Submitted 08/14/2023

The Applicant/Event Organizer shall maintain at all times throughout the duration of the event, a current insurance policy naming the City of Apopka as an additional insured providing coverage for all approved event activities and must be active on the date(s) of the event, including the set-up and break-down period. Failure to provide proof of adequate coverage will result in the denial of the special event permit or cancellation of the event. The City may require subcontractors acting on behalf of the Applicant/Event Organizer to provide proof of insurance or other related documents depending on the scope or location of the event.

- Comprehensive listing of all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers must be submitted no later than forty-five (45) business days prior to the event.
- All certificates of insurance, required extensions to said insurance certificates, copies of insurance policies and insurance agreements must be submitted no later than **thirty (30) business days prior to the event**.

If insurance requirements are not met at least twenty (20) business days prior to the date of the event, your event will be cancelled!

The City of Apopka defines an Applicant/Event Organizer as any individual or organization that is responsible for all aspects of an event to include advertising, marketing, talent costs, insurance, hold harmless agreement contracts, along with all the revenues and expenses for the event. The Applicant/Event Organizer agrees to conduct this event in accordance with the City of Apopka Code of Ordinances (Chapters 46 and 62).

REQUIREMENTS

- Applicant/Event Organizer recognizes the City's authority to halt the operation of the above listed event due to inclement weather or any other safety concern that may arise.
- The City is not responsible or liable for any damage, loss or theft to any vendor or event participant.

- Applicant/Event Organizer agrees that the City may use photographic images and video taken at the event in promotions and publications. These images may be used online or provided to media outlets and/or used in social media applications.

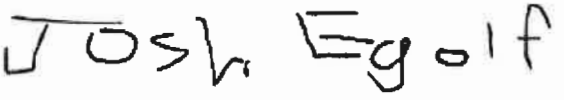
INSURANCE

Before activity setup, or any other site activity begins, Applicant/Event Organizer must have a Certificate of Liability Insurance **(including all extensions to the insurance certificate—to also include a copy of the complete insurance policy)** on file with the City's Risk Management Division. The cost of such insurance shall be the responsibility of the Applicant/Event Organizer and must meet ALL requirements as directed by the City of Apopka. The City reserves the right to increase coverage as determined for higher risk events or activities. This insurance policy must remain in effect throughout the entire duration of the property use beginning with load-in and ending at the conclusion of load-out.

- Applicant/Event Organizer shall, at its sole cost and expense, procure and maintain throughout the term of this agreement, Commercial General Liability and Workers' Compensation insurance, including Employer Liability insurance, with minimum policy limits of $1,000,000 Combined Single Limits, or to the extent and in such amounts as required and authorized by Florida Law. If such GL insurance contains a general aggregate limit, it shall apply separately to this event in the amount of $2,000,000. Products and completed operations aggregate shall be $1,000,000. Damage to rented premises shall be included at $100,000. The event Applicant/Event Organizer and their representatives who wish to drive on City property to set up or tear down for events, and/or Food Trucks and/or any vehicle that functions as the workplace or is used to perform contracted work must provide an Automobile Liability insurance policy in the minimum amount of $300,000 Combined Single Limit. If alcohol is being served, the Applicant/Event Organizer shall provide evidence of coverage for liquor liability in the minimum amount of $1,000,000. The insurance policy must not exclude Personal Injury/Advertising Injury, Medical, volunteer coverage or spectator liability.
- All insurance policies shall: 1) provide that the insurance carrier shall not cancel, terminate or otherwise modify the terms and conditions of said policies except upon thirty days written notice to the City's contract administrator; 2) be evidenced by an endorsed Certificate of Insurance generated and executed by a licensed insurance broker, brokerage, or similar licensed insurance professional evidencing such coverage, and naming the City of Apopka as a named additional insured, as well as furnishing the City with a certified copy, or copies, of said insurance policies; and 3) be approved as to form and sufficiency by the City's contract administrator. The original insurance certificate(s) and all extensions to the insurance certificate(s) should be sent to: City of Apopka, Risk Management, 120 East Main Street, Apopka, FL 32703 or e-mailed to riskmanagement@apopka.net. All insurance coverage shall be written with a company having an A.M. Best Rating of at least the "A" category and size category of VIII.
- Applicant/Event Organizer is solely responsible for all applicable policy premiums, deductibles, and/or self-insured retention attached to any required coverages. Said insurance coverages procured by the Applicant/Event Organizer as required herein, including but not limited to any excess and/or umbrella coverages, shall be considered, and the Applicant/Event Organizer agrees that said insurance coverages it procures as required herein shall be considered, as primary insurance over and above any other insurance, or self–insurance, available to the City, and that any other insurance, or self-insurance available to the City shall be considered secondary to, or in excess of, the insurance coverage(s) procured by the Applicant/Event Organizer as required herein.
- Applicant/Event Organizer shall require and verify that all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers, maintain insurance meeting all of the requirements stated herein. Furthermore, the insurance policy held by the Applicant/Event Organizer shall have no endorsement(s) restricting, limiting or excluding the subcontractors or work on behalf of the Applicant/Event Organizer by a subcontractor. The Certificate of Insurance submitted by the Applicant/Event Organizer must clearly state that all such subcontractors are "Named Insureds".

Nothing herein shall be construed to extend the City of Apopka's liability beyond that provided in section 768.28, Florida Statutes.

By signing below, I acknowledge that I have read and understand the insurance requirements contained herein. I further understand that my permit application may be declined if I fail to provide the appropriate insurance coverage.

Signature of Applicant	
Name of Applicant	Josh Egolf
Title of Applicant	Events Director
Sponsoring Organization Name	Cox Media Group


CATERING
GATE 1
GATE 3
and Slam Dr
Apopka Amphit ater
VIP
FOOD
FOOD
FOOD
FOOD
FOOD
PORTOLETS
GATE 2

City of Apopka

3710 Jason Dwelley Parkway
Apopka, FL 32712

407-703-1784
events@apopka.net
https://www.apopka.gov

Registration/Payment Receipt 59936635

08/23/2023 08:37 AM

Account Information
Cox Media Group
Josh Egolf
4192 N. John Young Parkway
Orlando, FL 32804

Received By
Carolyn Ray at Northwest Recreation Complex

Item	Balance Due	Amount Paid
Special Event Permit Fee	$50.00	$0.00
Change in Balance		$50.00
Account Balance *(As of 08/23/2023 08:37 AM)*		$50.00

pop up event Oct/Nov/Dec KLNP

- Completed Special Event Permit Application (Online Form or print form can be requested at events@apopka.net).
- Event Description
- A non-refundable application fee of $50.00 or completed application for waiver of permit fee is due when application is submitted. *Staff will contact you about this step.*
- A certificate of general liability insurance listing the "City of Apopka" as 'Additional Insured' must be submitted. Copy of the declaration sheet and endorsement page must be included. Additional insurance may be required, please see the event insurance requirements.
- A site plan (Map) or Parade/Race Route **MUST** be submitted with your application. Map must identify location of staging, tents, parking, barricades, vendors, and restrooms and must be to scale.
- Letter from the property owner granting permission for use of their property. (if on private property)
- If alcohol will be served at your event you must include the alcohol permit and insurance with the completed permit
- Copies of flyers and advertisements.
- Policies and protocols in regards to CDC Guidelines/COVID-19 & social distancing

Applicant must be present for duration of event.

Organization Name	specialty pop up events
Name of Applicant	abby hurwitz
Mailing Address	3801 w lake mary blvd
City	lake mary
State	florida
Zip Code	32746
Cell Phone	5612714771
Email	specialtypopupevents@gmail.com
Is your organization a Non – Profit (501C3) OR Tax Exempt Organization?	No
State of Florida Tax ID Number	825236331
Name of the Event	fall craft and food fest, holiday food fest and craft show, holiday grinch fest
Date(s) of the Event	10/14, 11/18, 12/16
Hours of the Event	11am-4pm
Location of the Event	kit land nelson park
Does the location of the event take place on Public or Private Property?	Yes
Anticipated attendance:	400
Briefly describe the event and all activities that will occur during the event:	holiday craft show with local mom and pop vendors, kids activities, free family fun event.

$50 permit fee.

Event Category	• Street Festival
Are there flyers or advertisements for this event?	No
Will there be admission fees to your event?	No
Will you be serving alcohol?	No
Is your event open to the public?	Yes
Does your event include food concession?	Yes
Do you intend to have food trucks at your event?	Yes
How many?	5
Will there be merchandising vending at your event?	Yes
How many vendors?	45
Will they need electric?	No
Will you be hiring a private security company for the event?	No
Do you require overnight security?	No
Are there musical entertainment features related to your event?	No
Will amplified sound be used during the event?	No
Will any streets be closed or will the flow of traffic be affected by the event?	No
Does your event include the use of tents?	Yes

Please indicate tent location & size on layout. Permits and ground locates may be required.

What size of tents?	10x10
Will inflatables be used at your event?	No
Will your event include any fireworks or pyrotechnics?	No

Layout map for event *File(s) attached:*



Date/Time (on site load in and load out)

For events that are held on City Property, set up days and load out days may require additional fees.

Setup/Load In

Date	10/14/2023
Start Time	9:00 AM (EDT)
End Time	11:00 AM (EDT)

Event Dates

Date	10/14/2023
Start Time	11:00 AM (EDT)
End Time	4:00 PM (EDT)

Take Down/Load Out

Date	10/14/2023

- Applicant/Event Organizer recognizes the City's authority to halt the operation of the above listed event due to inclement weather or any other safety concern that may arise.
- The City is not responsible or liable for any damage, loss or theft to any vendor or event participant.
- Applicant/Event Organizer agrees that the City may use photographic images and video taken at the event in promotions and publications. These images may be used online or provided to media outlets and/or used in social media applications.

INSURANCE

Before activity setup, or any other site activity begins, Applicant/Event Organizer must have a Certificate of Liability Insurance **(including all extensions to the insurance certificate—to also include a copy of the complete insurance policy)** on file with the City's Risk Management Division. The cost of such insurance shall be the responsibility of the Applicant/Event Organizer and must meet ALL requirements as directed by the City of Apopka. The City reserves the right to increase coverage as determined for higher risk events or activities. This insurance policy must remain in effect throughout the entire duration of the property use beginning with load-in and ending at the conclusion of load-out.

- Applicant/Event Organizer shall, at its sole cost and expense, procure and maintain throughout the term of this agreement, Commercial General Liability and Workers' Compensation insurance, including Employer Liability insurance, with minimum policy limits of $1,000,000 Combined Single Limits, or to the extent and in such amounts as required and authorized by Florida Law. If such GL insurance contains a general aggregate limit, it shall apply separately to this event in the amount of $2,000,000. Products and completed operations aggregate shall be $1,000,000. Damage to rented premises shall be included at $100,000. The event Applicant/Event Organizer and their representatives who wish to drive on City property to set up or tear down for events, and/or Food Trucks and/or any vehicle that functions as the workplace or is used to perform contracted work must provide an Automobile Liability insurance policy in the minimum amount of $300,000 Combined Single Limit. If alcohol is being served, the Applicant/Event Organizer shall provide evidence of coverage for liquor liability in the minimum amount of $1,000,000. The insurance policy must not exclude Personal Injury/Advertising Injury, Medical, volunteer coverage or spectator liability.
- All insurance policies shall: 1) provide that the insurance carrier shall not cancel, terminate or otherwise modify the terms and conditions of said policies except upon thirty days written notice to the City's contract administrator; 2) be evidenced by an endorsed Certificate of Insurance generated and executed by a licensed insurance broker, brokerage, or similar licensed insurance professional evidencing such coverage, and naming the City of Apopka as a named additional insured, as well as furnishing the City with a certified copy, or copies, of said insurance policies; and 3) be approved as to form and sufficiency by the City's contract administrator. The original insurance certificate(s) and all extensions to the insurance certificate(s) should be sent to: City of Apopka, Risk Management, 120 East Main Street, Apopka, FL 32703 or e-mailed to riskmanagement@apopka.net. All insurance coverage shall be written with a company having an A.M. Best Rating of at least the "A" category and size category of VIII.
- Applicant/Event Organizer is solely responsible for all applicable policy premiums, deductibles, and/or self-insured retention attached to any required coverages. Said insurance coverages procured by the Applicant/Event Organizer as required herein, including but not limited to any excess and/or umbrella coverages, shall be considered, and the Applicant/Event Organizer agrees that said insurance coverages it procures as required herein shall be considered, as primary insurance over and above any other insurance, or self–insurance, available to the City, and that any other insurance, or self-insurance available to the City shall be considered secondary to, or in excess of, the insurance coverage(s) procured by the Applicant/Event Organizer as required herein.
- Applicant/Event Organizer shall require and verify that all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers, maintain insurance meeting all of the requirements stated herein. Furthermore, the insurance policy held by the Applicant/Event Organizer shall have no endorsement(s) restricting, limiting or excluding the subcontractors or work on behalf of the Applicant/Event Organizer by a subcontractor. The Certificate of Insurance submitted by the Applicant/Event Organizer must clearly state that all such subcontractors are "Named Insureds".

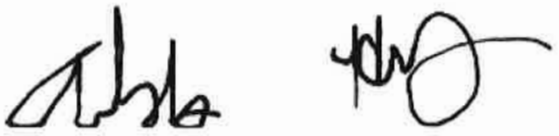
Nothing herein shall be construed to extend the City of Apopka's liability beyond that provided in section 768.28, Florida Statutes.

Start Time	4:00 PM (EDT)
End Time	5:00 PM (EDT)

I, Being the Applicant/Event Organizer, have read and understand the guidelines contained within the City of Apopka's Special Event Permit Application and agree to conduct my event in accordance. I further understand that failure to abide by these guidelines may result in the denial or forfeiture of my Special Event Permit.

The City of Apopka is not responsible for lost, stolen or damaged items.

I acknowledge that the information contained in this application is true, correct, and complete to the best of my knowledge.

Applicant Signature	
Name of Applicant	abby hurwitz
Title of Applicant	owner
Date Submitted	08/18/2023

The Applicant/Event Organizer shall maintain at all times throughout the duration of the event, a current insurance policy naming the City of Apopka as an additional insured providing coverage for all approved event activities and must be active on the date(s) of the event, including the set-up and break-down period. Failure to provide proof of adequate coverage will result in the denial of the special event permit or cancellation of the event. The City may require subcontractors acting on behalf of the Applicant/Event Organizer to provide proof of insurance or other related documents depending on the scope or location of the event.

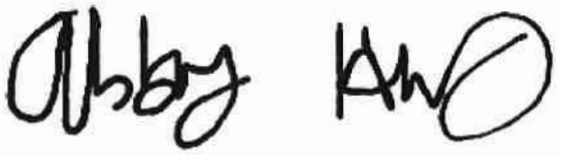
- Comprehensive listing of all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers must be submitted no later than forty-five (45) business days prior to the event.
- All certificates of insurance, required extensions to said insurance certificates, copies of insurance policies and insurance agreements must be submitted no later than **thirty (30) business days prior to the event**.

If insurance requirements are not met at least twenty (20) business days prior to the date of the event, your event will be cancelled!

The City of Apopka defines an Applicant/Event Organizer as any individual or organization that is responsible for all aspects of an event to include advertising, marketing, talent costs, insurance, hold harmless agreement contracts, along with all the revenues and expenses for the event. The Applicant/Event Organizer agrees to conduct this event in accordance with the City of Apopka Code of Ordinances (Chapters 46 and 62).

REQUIREMENTS

By signing below, I acknowledge that I have read and understand the insurance requirements contained herein. I further understand that my permit application may be declined if I fail to provide the appropriate insurance coverage.

Signature of Applicant	
Name of Applicant	abby hurwitz
Title of Applicant	owner
Sponsoring Organization Name	specialty pop up events

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 03/13/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Hiscox Inc. 5 Concourse Parkway Suite 2150 Atlanta GA, 30328	**CONTACT NAME:** **PHONE (A/C, No, Ext):** (888) 202-3007 **FAX (A/C, No):** **E-MAIL ADDRESS:** contact@hiscox.com
INSURED Specialty Popup Events LLC 2901 Clint Moore Road 194 Boca Raton, FL 33496	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** **INSURER A :** Hiscox Insurance Company Inc — 10200 **INSURER B :** **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE [ ] OCCUR [X] GEN'L AGGREGATE LIMIT APPLIES PER: POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:	Y	Y	P100.282.432.6	05/21/2023	05/21/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 2,000,000 $ 100,000 $ 5,000 $ 2,000,000 $ 2,000,000 $ S/T Gen. Agg.
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS HIRED AUTOS SCHEDULED AUTOS NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $
	UMBRELLA LIAB [ ] OCCUR EXCESS LIAB [ ] CLAIMS-MADE DED [ ] RETENTION $						EACH OCCURRENCE AGGREGATE	$ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N [ ] N / A (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $
A	Professional Liability	Y		P100.279.980.6	05/21/2023	05/21/2024	Each Claim: $ 2,000,000 Aggregate: $ 2,000,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Specialty Popup Events at Kit Land Nelson Park

CERTIFICATE HOLDER

City of Apopka
120 E Main St.
Apopka, FL 32703

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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ACORD 25 (2016/03) **The ACORD name and logo are registered marks of ACORD**

Vendor Parking



City of Apopka

3710 Jason Dwelley Parkway
Apopka, FL 32712

407-703-1784
events@apopka.net
https://www.apopka.gov

Registration/Payment Receipt 59936657

08/23/2023 08:38 AM

Account Information
Specialty Pop Up Events LLC
Jason Horwitz
4300 Lake Mary Blvd 1010
#305
Lake Mary, FL 32746

Received By
Carolyn Ray at Northwest Recreation Complex

Item	Balance Due	Amount Paid
Special Event Permit Fee	$50.00	$0.00
Change in Balance		$50.00
Account Balance *(As of 08/23/2023 08:38 AM)*		$50.00

Applicant must be present for duration of event.

Organization Name	Beracah 1 French Seventh-Day Adventist
Name of Applicant	Dr. Farah Cinous
Mailing Address	1517 Mercy Drive
City	Orlando
State	Florida
Zip Code	32808
Cell Phone	3219453928
Email	fcinous77@gmail.com
Is your organization a Non – Profit (501C3) OR Tax Exempt Organization?	Yes
State of Florida Tax ID Number	52-0643036

A copy of your 501C3 non-profit certificate is required for non-profit status. Otherwise taxes will be charged.

Please attach a copy of your 501C3 non-profit certificate	*File(s) attached:* Beracah I fundraising 501c3 ltr.pdf
Name of the Event	Beracah Church Fundraising Festival
Date(s) of the Event	10/29/2023
Hours of the Event	8 hours
Location of the Event	Apopka Amphitheater/ Park
Does the location of the event take place on Public or Private Property?	Yes
Anticipated attendance:	200
Briefly describe the event and all activities that will occur during the event:	The event is a church fundraising in the style of a fall festival which will include different booths and we will sell food and drink to raise money for the church, different games, children area which might. We will also have a church gospel concert toward the end.
Event Category	• Concert Performance • Festival/Celebration
Are there flyers or advertisements for this event?	No
Additional Event Information	We do not have any flyer until we are secure with the location.

Will there be admission fees to your event?	Yes
Will you be serving alcohol?	No
Is your event open to the public?	Yes
Does your event include food concession?	Yes
Do you intend to have food trucks at your event?	No
Will there be merchandising vending at your event?	No
Will they need electric?	Yes

Additional fees apply for electric use.

Will you be hiring a private security company for the event?	No
Do you require overnight security?	No
Are there musical entertainment features related to your event?	No
Will amplified sound be used during the event?	Yes
Will any streets be closed or will the flow of traffic be affected by the event?	No
Does your event include the use of tents?	No
Will inflatables be used at your event?	Yes
Will your event include any fireworks or pyrotechnics?	No

Layout map for event *File(s) attached:*

Aug 23, Doc 1.pdf

Date/Time (on site load in and load out)

For events that are held on City Property, set up days and load out days may require additional fees.

Setup/Load In

Date	10/29/2023
Start Time	7:00 AM (EDT)
End Time	10:00 AM (EDT)

Event Dates

Date	10/29/2023
Start Time	10:00 AM (EDT)
End Time	6:00 PM (EDT)

Take Down/Load Out

Date	10/29/2023
Start Time	5:00 PM (EDT)
End Time	6:00 PM (EDT)

I, Being the Applicant/Event Organizer, have read and understand the guidelines contained within the City of Apopka's Special Event Permit Application and agree to conduct my event in accordance. I further understand that failure to abide by these guidelines may result in the denial or forfeiture of my Special Event Permit.

The City of Apopka is not responsible for lost, stolen or damaged items.

I acknowledge that the information contained in this application is true, correct, and complete to the best of my knowledge.

Applicant Signature



Name of Applicant	Dr. Farah Cinous
Title of Applicant	Events Organizer/ Beracah 1 French Seventh-Day Adventist Health Department Head
Date Submitted	08/23/2023

The Applicant/Event Organizer shall maintain at all times throughout the duration of the event, a current insurance policy naming the City of Apopka as an additional insured providing coverage for all approved event activities and must be active on the date(s) of the event, including the set-up and break-down period. Failure to provide proof of adequate coverage will result in the denial of the special event permit or cancellation of the event. The City may require subcontractors acting on behalf of the Applicant/Event Organizer to provide proof of insurance or other related documents depending on the scope or location of the event.

- Comprehensive listing of all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers must be submitted no later than forty-five (45) business days prior to the event.
- All certificates of insurance, required extensions to said insurance certificates, copies of insurance policies and insurance agreements must be submitted no later than **thirty (30) business days prior to the event**.

If insurance requirements are not met at least twenty (20) business days prior to the date of the event, your event will be cancelled!

Please provide a copy of your certificate of insurance.

File(s) attached:

SEC - GL COI - Beracah French SDA Church - City of Apopka - 8-17-2023.pdf

The City of Apopka defines an Applicant/Event Organizer as any individual or organization that is responsible for all aspects of an event to include advertising, marketing, talent costs, insurance, hold harmless agreement contracts, along with all the revenues and expenses for the event. The Applicant/Event Organizer agrees to conduct this event in accordance with the City of Apopka Code of Ordinances (Chapters 46 and 62).

REQUIREMENTS

- Applicant/Event Organizer recognizes the City's authority to halt the operation of the above listed event due to inclement weather or any other safety concern that may arise.
- The City is not responsible or liable for any damage, loss or theft to any vendor or event participant.
- Applicant/Event Organizer agrees that the City may use photographic images and video taken at the event in promotions and publications. These images may be used online or provided to media outlets and/or used in social media applications.

INSURANCE

Before activity setup, or any other site activity begins, Applicant/Event Organizer must have a Certificate of Liability Insurance **(including all extensions to the insurance certificate—to also include a copy of the complete insurance policy)** on file with the City's Risk Management Division. The cost of such insurance shall be the responsibility of the Applicant/Event Organizer and must meet ALL requirements as directed by the City of Apopka. The City reserves the right to increase coverage as determined for higher risk events or activities. This insurance policy must remain in effect throughout the entire duration of the property use beginning with load-in and ending at the conclusion of load-out.

- Applicant/Event Organizer shall, at its sole cost and expense, procure and maintain throughout the term of this agreement, Commercial General Liability and Workers' Compensation insurance, including Employer Liability insurance, with minimum policy limits of $1,000,000 Combined Single Limits, or to the extent and in such amounts as required and authorized by Florida Law. If such GL insurance contains a general aggregate limit, it shall apply separately to this event in the amount of $2,000,000. Products and completed operations aggregate

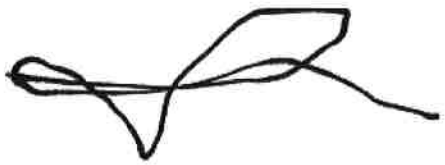
shall be $1,000,000. Damage to rented premises shall be included at $100,000. The event Applicant/Event Organizer and their representatives who wish to drive on City property to set up or tear down for events, and/or Food Trucks and/or any vehicle that functions as the workplace or is used to perform contracted work must provide an Automobile Liability insurance policy in the minimum amount of $300,000 Combined Single Limit. If alcohol is being served, the Applicant/Event Organizer shall provide evidence of coverage for liquor liability in the minimum amount of $1,000,000. The insurance policy must not exclude Personal Injury/Advertising Injury, Medical, volunteer coverage or spectator liability.

- All insurance policies shall: 1) provide that the insurance carrier shall not cancel, terminate or otherwise modify the terms and conditions of said policies except upon thirty days written notice to the City's contract administrator; 2) be evidenced by an endorsed Certificate of Insurance generated and executed by a licensed insurance broker, brokerage, or similar licensed insurance professional evidencing such coverage, and naming the City of Apopka as a named additional insured, as well as furnishing the City with a certified copy, or copies, of said insurance policies; and 3) be approved as to form and sufficiency by the City's contract administrator. The original insurance certificate(s) and all extensions to the insurance certificate(s) should be sent to: City of Apopka, Risk Management, 120 East Main Street, Apopka, FL 32703 or e-mailed to riskmanagement@apopka.net. All insurance coverage shall be written with a company having an A.M. Best Rating of at least the "A" category and size category of VIII.
- Applicant/Event Organizer is solely responsible for all applicable policy premiums, deductibles, and/or self-insured retention attached to any required coverages. Said insurance coverages procured by the Applicant/Event Organizer as required herein, including but not limited to any excess and/or umbrella coverages, shall be considered, and the Applicant/Event Organizer agrees that said insurance coverages it procures as required herein shall be considered, as primary insurance over and above any other insurance, or self–insurance, available to the City, and that any other insurance, or self-insurance available to the City shall be considered secondary to, or in excess of, the insurance coverage(s) procured by the Applicant/Event Organizer as required herein.
- Applicant/Event Organizer shall require and verify that all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers, maintain insurance meeting all of the requirements stated herein. Furthermore, the insurance policy held by the Applicant/Event Organizer shall have no endorsement(s) restricting, limiting or excluding the subcontractors or work on behalf of the Applicant/Event Organizer by a subcontractor. The Certificate of Insurance submitted by the Applicant/Event Organizer must clearly state that all such subcontractors are "Named Insureds".

Nothing herein shall be construed to extend the City of Apopka's liability beyond that provided in section 768.28, Florida Statutes.

By signing below, I acknowledge that I have read and understand the insurance requirements contained herein. I further understand that my permit application may be declined if I fail to provide the appropriate insurance coverage.

Signature of Applicant



Name of Applicant	Dr. Farah Cinous
Title of Applicant	Events Organizer/ Beracah 1 French Seventh-Day Adventist Health Department Head
Sponsoring Organization Name	Southeastern Conference Association of SDA



Southeastern Conference of Seventh-day Adventists

Office of the Secretary

August 21, 2023

Re: **Beracah I Haitian Seventh-day Adventist Church**

To Whom It May Concern:

The Internal Revenue Service has determined that the General Conference of Seventh-day Adventists (General Conference), an unincorporated association, is a 501 (c)(3) organization that is listed on the IRS list of Exempt Organizations. This listing gives the General Conference of Seventh-day Adventists a Code 1 designation, which indicates that it is "(g)enerally, a central organization holding a group exemption letter, whose subordinate units covered by the group exemption are also included as having contributions deductible, even though they are not separately listed."

The Southeastern Conference of Seventh-day Adventists (Southeastern Conference), located at 1701 Robie Avenue, Mount Dora, Florida 32757, and its affiliated churches/entities, is affiliated with the General Conference of Seventh-day Adventists and thus covered by the group exemption (GEN 1071) of the General Conference.

This letter certifies that the Beracah I Haitian SDA Church located 1517 Mercy Drive, Orlando, FL 32808, is affiliated with the Southeastern Conference and thus covered by the same group exemption (GEN 1071) of the General Conference. Although affiliated with the Southeastern Conference, the Beracah I Haitian SDA Church is an unincorporated nonprofit church and therefore, will not be listed on Sunbiz as a corporation. This letter is to be used for the purpose of a cultural event for the church's fundraising construction project.

Your assistance to the Beracah I Haitian SDA Church would be greatly appreciated. If there are any questions, please contact the undersigned directly.

Sincerely,

Pierre Francois
Executive Secretary

1701 Robie Avenue, Mt. Dora, Florida 32757-6339 • P.O. Box 1016, Mt. Dora, Florida 32756-1016
Telephone: (352) 735-3142 • Fax: (352) 735-3562 • Internet: www.secsda.org

IRS Department of the Treasury
Internal Revenue Service

CINCINNATI OH 45999-0038

In reply refer to: 0248254921
Jan. 15, 2021 LTR 4167C 0
52-0643036 000000 00
00009691
BODC: TE

GENERAL CONFERENCE OF SEVENTH DAY
ADVENTIST
PARENT ORGANIZATION
12501 OLD COLUMBIA PIKE
SILVER SPRING MD 20904

13619

Employer identification number: 52-0643036
Group exemption number: 1071

Dear Taxpayer:

This is in response to your request dated Jan. 06, 2021, for information about your tax-exempt status.

Our records indicate we issued a determination letter to you in Januaary 1950, and you're currently exempt under Internal Revenue Code (IRC) Section 501(c)(3).

We also recognized the subordinates on the list you submitted as exempt from federal income tax under IRC Section 501(c)(3).

For federal income tax purposes, donors can deduct contributions they make to you as provided in IRC Section 170. You're also qualified to receive tax deductible bequests, legacies, devises, transfers, or gifts under IRC Sections 2055, 2106 and 2522.

Because IRC Section 170(c) describes your subordinate organizations, donors can deduct contributions they make to them.

Please refer to www.irs.gov/charities for information about filing requirements. Specifically, IRC Section 6033(j) provides that, if you don't file a required return or notice for three consecutive years, your exempt status will be automatically revoked on the filing due date of the third required return or notice.

In addition, each subordinate organization is subject to automatic revocation if it doesn't file a required return or notice for three consecutive years. Subordinate organizations can file required returns or notices individually or as part of a group return.

For tax forms, instructions, and publications, visit www.irs.gov or call 1-800-TAX-FORM (1-800-829-3676).

If you have questions, call 1-877-829-5500 between 8 a.m. and 5 p.m., local time, Monday through Friday (Alaska and Hawaii follow Pacific Time).

0248254921
Jan. 15, 2021 LTR 4167C 0
52-0643036 000000 00
00009692

GENERAL CONFERENCE OF SEVENTH DAY
ADVENTIST
PARENT ORGANIZATION
12501 OLD COLUMBIA PIKE
SILVER SPRING MD 20904

Sincerely yours,

Warren R Burton

Warren R. Burton, Operations Mgr
Accounts Management Operations 1

2023 FLORIDA NOT FOR PROFIT CORPORATION ANNUAL REPORT

FILED
Jan 24, 2023
Secretary of State
9884813339CC

DOCUMENT# 755901

Entity Name: SOUTHEASTERN CONFERENCE ASSOCIATION OF SEVENTH-DAY ADVENTISTS, INCORPORATED

Current Principal Place of Business:

1701 ROBIE AVENUE
MT. DORA, FL 32757

Current Mailing Address:

1701 ROBIE AVENUEMT. DORA, FL 32757

FEI Number: 59-2066139

Certificate of Status Desired: No

Name and Address of Current Registered Agent:

FRANCOIS, PIERRE
1701 ROBIE AVENUE
MT. DORA, FL 32757 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE: PIERRE FRANCOIS — 01/24/2023

Electronic Signature of Registered Agent — Date

Officer/Director Detail :

Title	PRESIDENT	Title	SECRETARY
Name	OWUSU, MICHAEL	Name	FRANCOIS, PIERRE
Address	1701 ROBIE AVE.	Address	1701 ROBIE AVE.
City-State-Zip:	MT. DORA FL 32757	City-State-Zip:	MT. DORA FL 32757

Title	TREASURER
Name	CHARLES , EMMANUEL
Address	1701 ROBIE AVENUE
City-State-Zip:	MT. DORA FL 32757

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 617, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE:PIERRE FRANCOIS — SECRETARY — 01/24/2023

Electronic Signature of Signing Officer/Director Detail — Date

CERTIFICATE OF LIABILITY INSURANCE

Date (MM/DD/YYYY): 8/17/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT / PHONE / FAX / E-MAIL
Adventist Risk Management, Inc. 12501 Old Columbia Pike Silver Spring, MD 20904	CONTACT NAME: Job Mairura PHONE (A/C, No. Ext): 301-453-6918 FAX (A/C, No): E-MAIL ADDRESS: JMairura@adventistrisk.org

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
General Conference Corporation of Seventh-day Adventists, et al **Southeastern Conference Assoc of SDA** 1701 Robie Ave. Mt. Dora, FL 32757-6339	INSURER A: GENCON INSURANCE COMPANY OF VERMONT	10594
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
		X		GL300690-07	03/01/2023	03/01/2024	MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ N/A
	POLICY PRO-JECT LOC						PRODUCTS-COMP/OP AGG	$ N/A
	OTHER							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per Person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						PER STATUTE / OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A					E.L. EACH ACCIDENT	$
							E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

City of Apopka is additional insured as respects, liability arising out of the use of premises for cultural day event located at Apopka Amphitheater, 3710 Jason Dwelley Pkwy, Apopka, FL 32712, on 10/29/2023 – Sponsored by Beracah 1 French Seventh-Day Adventist Church

CERTIFICATE HOLDER

City of Apopka
120 E Main Street
Apopka, FL 32703

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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The ACORD name and logo are registered marks of ACORD

GENCON
Insurance Company of Vermont
126 College Street, Suite 400, Burlington, Vermont 05401
(802) 860-1958

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – LESSORS OR PROPERTY MANAGER

This endorsement modifies the Commercial General Liability Coverage Part

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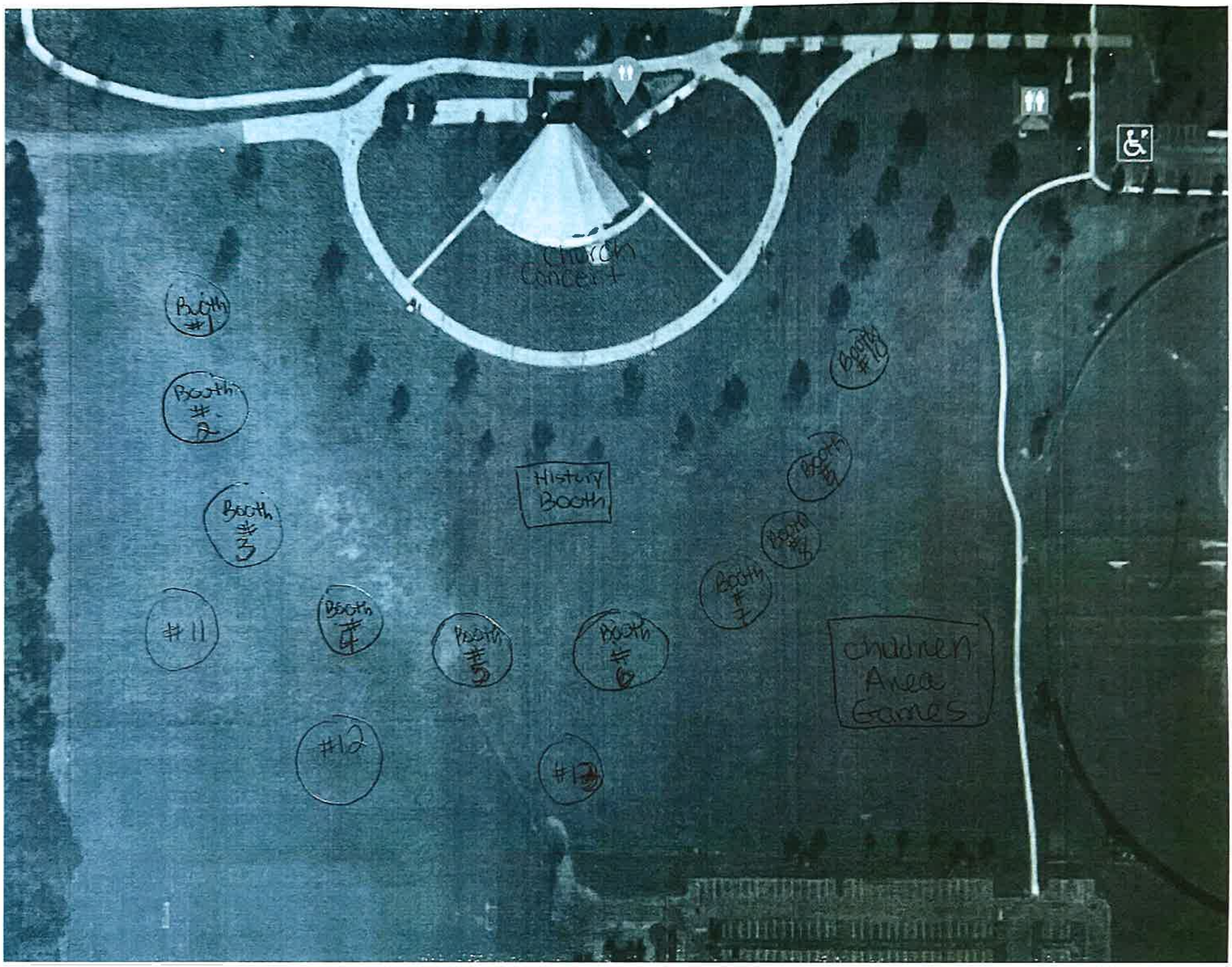
A. Section II – Who is An Insured is amended to include lessors or property manager as an additional insured but only with respect to liability arising out of the ownership, maintenance or use of that part of the premises leased, hired or otherwise temporarily used by you caused in whole or part by:
   1. Your acts or omissions; or
   2. The acts or omission of those acting on your behalf;

   in the performance of your ongoing operations or activities.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:

   This insurance does not apply to "bodily injury" or "property damage" occurring after:
   1. Any occurrence which takes place after you cease to be a tenant in that premises.

©Adventist Risk Management, Inc.


Church
Concert
Booth #1
Booth #2
Booth #3
History Booth
Booth #4
Booth #5
Booth #6
Booth #7
Booth #8
Booth #9
Booth #10
#11
#12
#13
children Area Games

12/2/23 Jingle Mingle WeWa

- Completed Special Event Permit Application (Online Form or print form can be requested at events@apopka.net).
- Event Description
- A non-refundable application fee of $50.00 or completed application for waiver of permit fee is due when application is submitted. *Staff will contact you about this step.*
- A certificate of general liability insurance listing the "City of Apopka" as 'Additional Insured' must be submitted. Copy of the declaration sheet and endorsement page must be included. Additional insurance may be required, please see the event insurance requirements.
- A site plan (Map) or Parade/Race Route **MUST** be submitted with your application. Map must identify location of staging, tents, parking, barricades, vendors, and restrooms and must be to scale.
- Letter from the property owner granting permission for use of their property. (if on private property)
- If alcohol will be served at your event you must include the alcohol permit and insurance with the completed permit
- Copies of flyers and advertisements.
- Policies and protocols in regards to CDC Guidelines/COVID-19 & social distancing

Applicant must be present for duration of event.

Organization Name	Epilepsy Association of Central Florida
Name of Applicant	Ceil Layfield
Mailing Address	109 N Kirkman Rd
City	Orlando
State	Florida
Zip Code	32811
Cell Phone	4072523772
Email	ceil@epilepsyassociation.com
Is your organization a Non – Profit (501C3) OR Tax Exempt Organization?	Yes
State of Florida Tax ID Number	23-7247844

A copy of your 501C3 non-profit certificate is required for non-profit status. Otherwise taxes will be charged.

Please attach a copy of your 501C3 non-profit certificate	*File(s) attached:* Certificate of Exemption 2019-2024.pdf
Name of the Event	Jingle, Mingle Tree Festival
Date(s) of the Event	December 2, 2022
Hours of the Event	4:00pm to 8:30pm
Location of the Event	Camp WeWa 221 South Binion Road Apopka, FL 32803

Does the location of the event take place on Public or Private Property?	Yes
Anticipated attendance:	200
Briefly describe the event and all activities that will occur during the event:	The Jingle, Mingle Tree Festival truly kicks of the holiday season with over 50 trees, and 20 wreaths beautifully decorated by businesses and individuals for auction. Raffle packages with seasonal items will be available. Santa will make a special appearance to visit with everyone. Holiday fare will be served, as well as s'mores by the campfire. Seasonal music and carolers will join in the festivities. There will be a few selfie stations for those Kodak moments.
Event Category	• Festival/Celebration
Are there flyers or advertisements for this event?	Yes
Attach Flyer or Advertisement 1	*File(s) attached:* Join us for Holiday Family Fun and Tree Festival (002).docx
Additional Event Information	Security will be provided.
Will there be admission fees to your event?	No
Will you be serving alcohol?	Yes

If yes for serving alcohol, a copy of your liquor license & insurance is required.

City Council approval is also required.

Is your event open to the public?	Yes
Does your event include food concession?	Yes
Do you intend to have food trucks at your event?	No
Will there be merchandising vending at your event?	Yes
How many vendors?	1
Will they need electric?	No
Will you be hiring a private security company for the event?	No
Do you require overnight security?	No
Are there musical entertainment features related to your event?	Yes

Please attach a list of all stage performance schedules.

Please attach a list of all stage performance schedules.	*File(s) attached:* Jingle Mingle Entertainment.docx

Will amplified sound be used during the event?	Yes
Will any streets be closed or will the flow of traffic be affected by the event?	No
Does your event include the use of tents?	No
Will inflatables be used at your event?	No
Will your event include any fireworks or pyrotechnics?	No

Layout map for event	*File(s) attached:* Layout for Jingle Mingle.pdf

Date/Time (on site load in and load out)

For events that are held on City Property, set up days and load out days may require additional fees.

Setup/Load In

Date	12/02/2023
Start Time	8:00 AM (EDT)
End Time	3:30 PM (EDT)

Event Dates

Date	12/02/2023
Start Time	4:00 PM (EDT)
End Time	8:30 AM (EDT)

Take Down/Load Out

Date	12/02/2023
Start Time	9:00 PM (EDT)
End Time	10:30 PM (EDT)

I, Being the Applicant/Event Organizer, have read and understand the guidelines contained within the City of Apopka's Special Event Permit Application and agree to conduct my event in accordance. I further understand that failure to abide by these guidelines may result in the denial or forfeiture of my Special Event Permit.

The City of Apopka is not responsible for lost, stolen or damaged items.

I acknowledge that the information contained in this application is true, correct, and complete to the best of my knowledge.

Applicant Signature	
Name of Applicant	David Manchon
Title of Applicant	Executive Director
Date Submitted	08/25/2023

The Applicant/Event Organizer shall maintain at all times throughout the duration of the event, a current insurance policy naming the City of Apopka as an additional insured providing coverage for all approved event activities and must be active on the date(s) of the event, including the set-up and break-down period. Failure to provide proof of adequate coverage will result in the denial of the special event permit or cancellation of the event. The City may require subcontractors acting on behalf of the Applicant/Event Organizer to provide proof of insurance or other related documents depending on the scope or location of the event.

- Comprehensive listing of all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers must be submitted no later than forty-five (45) business days prior to the event.
- All certificates of insurance, required extensions to said insurance certificates, copies of insurance policies and insurance agreements must be submitted no later than **thirty (30) business days prior to the event**.

If insurance requirements are not met at least twenty (20) business days prior to the date of the event, your event will be cancelled!

Please provide a copy of your certificate of insurance.

File(s) attached:

Jingle Mingle Certificate_of_Insurance335613.PDF

The City of Apopka defines an Applicant/Event Organizer as any individual or organization that is responsible for all aspects of an event to include advertising, marketing, talent costs, insurance, hold harmless agreement contracts, along with all the revenues and expenses for the event. The Applicant/Event Organizer agrees to conduct this event in accordance with the City of Apopka Code of Ordinances (Chapters 46 and 62).

REQUIREMENTS

- Applicant/Event Organizer recognizes the City's authority to halt the operation of the above listed event due to inclement weather or any other safety concern that may arise.

- The City is not responsible or liable for any damage, loss or theft to any vendor or event participant.
- Applicant/Event Organizer agrees that the City may use photographic images and video taken at the event in promotions and publications. These images may be used online or provided to media outlets and/or used in social media applications.

INSURANCE

Before activity setup, or any other site activity begins, Applicant/Event Organizer must have a Certificate of Liability Insurance **(including all extensions to the insurance certificate—to also include a copy of the complete insurance policy)** on file with the City's Risk Management Division. The cost of such insurance shall be the responsibility of the Applicant/Event Organizer and must meet ALL requirements as directed by the City of Apopka. The City reserves the right to increase coverage as determined for higher risk events or activities. This insurance policy must remain in effect throughout the entire duration of the property use beginning with load-in and ending at the conclusion of load-out.

- Applicant/Event Organizer shall, at its sole cost and expense, procure and maintain throughout the term of this agreement, Commercial General Liability and Workers' Compensation insurance, including Employer Liability insurance, with minimum policy limits of $1,000,000 Combined Single Limits, or to the extent and in such amounts as required and authorized by Florida Law. If such GL insurance contains a general aggregate limit, it shall apply separately to this event in the amount of $2,000,000. Products and completed operations aggregate shall be $1,000,000. Damage to rented premises shall be included at $100,000. The event Applicant/Event Organizer and their representatives who wish to drive on City property to set up or tear down for events, and/or Food Trucks and/or any vehicle that functions as the workplace or is used to perform contracted work must provide an Automobile Liability insurance policy in the minimum amount of $300,000 Combined Single Limit. If alcohol is being served, the Applicant/Event Organizer shall provide evidence of coverage for liquor liability in the minimum amount of $1,000,000. The insurance policy must not exclude Personal Injury/Advertising Injury, Medical, volunteer coverage or spectator liability.
- All insurance policies shall: 1) provide that the insurance carrier shall not cancel, terminate or otherwise modify the terms and conditions of said policies except upon thirty days written notice to the City's contract administrator; 2) be evidenced by an endorsed Certificate of Insurance generated and executed by a licensed insurance broker, brokerage, or similar licensed insurance professional evidencing such coverage, and naming the City of Apopka as a named additional insured, as well as furnishing the City with a certified copy, or copies, of said insurance policies; and 3) be approved as to form and sufficiency by the City's contract administrator. The original insurance certificate(s) and all extensions to the insurance certificate(s) should be sent to: City of Apopka, Risk Management, 120 East Main Street, Apopka, FL 32703 or e-mailed to riskmanagement@apopka.net. All insurance coverage shall be written with a company having an A.M. Best Rating of at least the "A" category and size category of VIII.
- Applicant/Event Organizer is solely responsible for all applicable policy premiums, deductibles, and/or self-insured retention attached to any required coverages. Said insurance coverages procured by the Applicant/Event Organizer as required herein, including but not limited to any excess and/or umbrella coverages, shall be considered, and the Applicant/Event Organizer agrees that said insurance coverages it procures as required herein shall be considered, as primary insurance over and above any other insurance, or self–insurance, available to the City, and that any other insurance, or self-insurance available to the City shall be considered secondary to, or in excess of, the insurance coverage(s) procured by the Applicant/Event Organizer as required herein.
- Applicant/Event Organizer shall require and verify that all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers, maintain insurance meeting all of the requirements stated herein. Furthermore, the insurance policy held by the Applicant/Event Organizer shall have no endorsement(s) restricting, limiting or excluding the subcontractors or work on behalf of the Applicant/Event Organizer by a subcontractor. The Certificate of Insurance submitted by the Applicant/Event Organizer must clearly state that all such subcontractors are "Named Insureds".

Nothing herein shall be construed to extend the City of Apopka's liability beyond that provided in section 768.28, Florida Statutes.

By signing below, I acknowledge that I have read and understand the insurance requirements contained herein. I further understand that my permit application may be declined if I fail to provide the appropriate insurance coverage.

Signature of Applicant 

Name of Applicant David Manchon

Title of Applicant Executive Director

Sponsoring Organization Name Epilepsy Association of Centra Florida

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 08/02/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:
HCC Specialty 401 Edgewater Place, Suite 400 Wakefield, MA 01880	PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS: PRODUCER CUSTOMER ID #:

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
The Epilepsy Association of Central Florida, Inc. 109 N Kirkman Rd. Suite 119 Orlando, FL 32811	INSURER A : U.S. Specialty Insurance Company	29599
	INSURER B : United States Fire Insurance Company	21113
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY**	X		U23SE12368	08/25/2023	12/05/2023	EACH OCCURRENCE	$ 1,000,000
	X COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 300,000
	CLAIMS-MADE X OCCUR						MED EXP (Any one person)	$ 5,000
	X Liquor Liability* $1M/$1M						PERSONAL & ADV INJURY	$ 1,000,000
B	X Medical Expense			US1934555	08/25/2023	12/05/2023	GENERAL AGGREGATE	$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	$ 1,000,000
	X POLICY PRO-JECT LOC							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS						BODILY INJURY (Per accident)	$
	SCHEDULED AUTOS						PROPERTY DAMAGE (Per accident)	$
	HIRED AUTOS							$
	NON-OWNED AUTOS							$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DEDUCTIBLE							$
	RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						WC STATU-TORY LIMITS OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

The Certificate Holder is added as Additional Insured with respects to our Insured's operations only.
This insurance is primary and non-contributory as required by written contract.
This coverage is with respect to Jingle Mingle event to be held 12/02/2023 - 12/02/2023 at City of Apopka Camp Wewa Apopka FL.

CERTIFICATE HOLDER

City of Apopka
120 E Main St.
Apopka, FL 32703

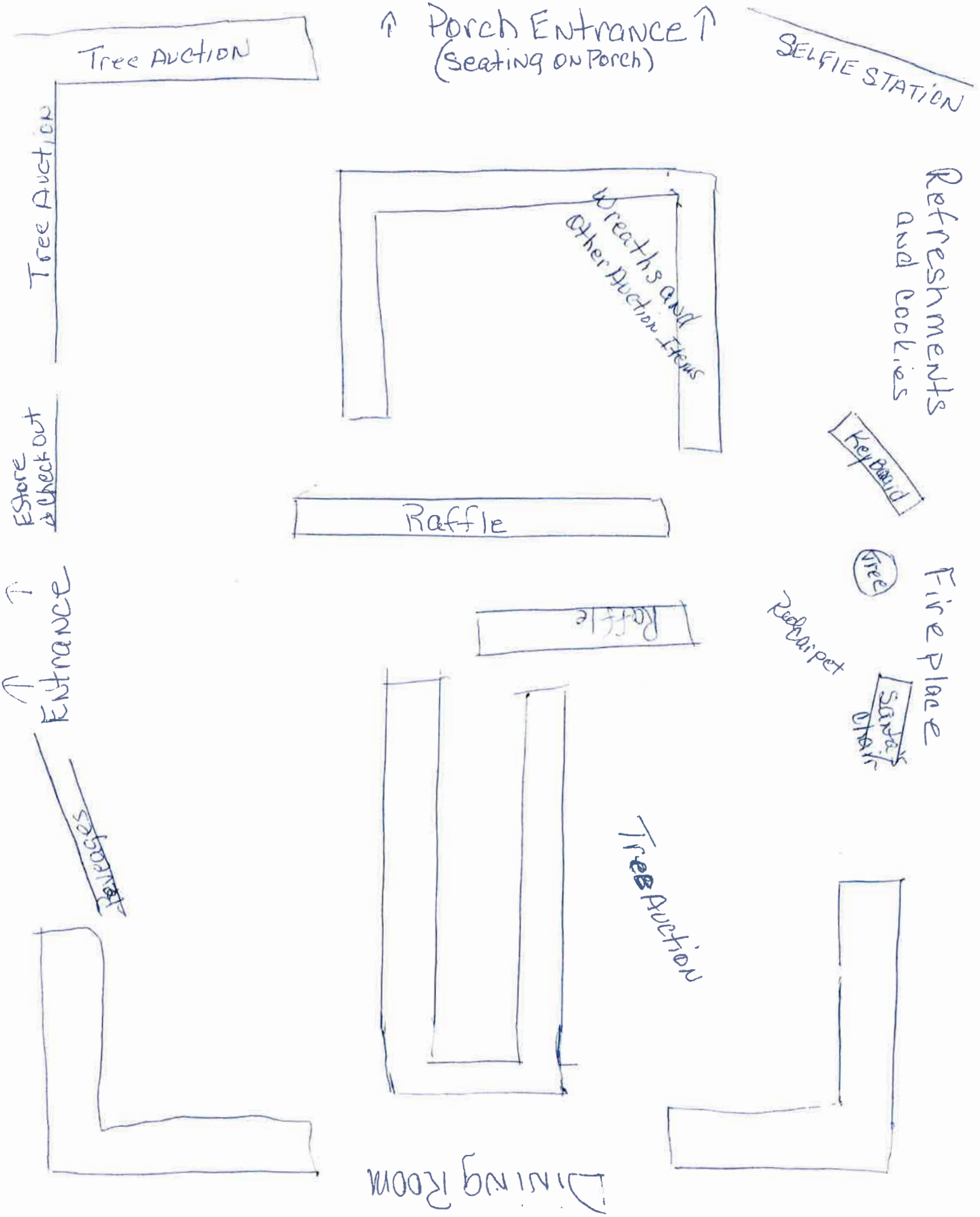
CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



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Tree Auction
↑ Porch Entrance ↑
(Seating on Porch)
SELFIE STATION
Tree Auction
Wreaths and
Other Auction Items
Refreshments
and Cookies
Keyboard
Estore
& Check out
Raffle
Tree
Fireplace
Red Carpet
Santa's
Chair
↑ Entrance
Beverages
Raffle
Tree Auction
Dining Room

0000081 09/17/19

DR-14
R. 01/18

FLORIDA

Issued Florida

Consumer's Certificate of Exemption

Pursuant to Chapter 212, Statutes.

Certificate Number	Effective Date	Expiration Date	Exemption Category
85-8012627575C-6	11/30/2019	11/30/2024	501 ORGANIZATION

This certifies that

THE EPILEPSY ASSOCIATION OF
CENTRAL FLORIDA INC 109 N KIRKMAN RD
ORLANDO FL 32811-1403

is exempt from the payment of Florida sales and use tax on real property rented, transient rental property rented, tangible personal property purchased or rented, or services purchased.

R. 01/18 **Important Information for Exempt Organizations** DR-14

FLORIDA

1. You must provide all vendors and suppliers with an exemption certificate before making tax-exempt purchases.

   See Rule i2A-1 .00, Florida Administrative Code (F.A.C.).

2. Your Consumer's Certificate of Exemption is to be used solely by your organization for your organization's customary nonprofit activities.

3. Purchases made by an individual on behalf of the organization are taxable, even if the individual will be reimbursed by the organization.

4. This exemption applies only to purchases your organization makes. The sale or lease to others of tangible personal property, sleeping accommodations, or other real property is taxable. Your organization must register, and collect and remit sales and use tax on such taxable transactions. Note: Churches are exempt from this requirement except when they are the lessor of real property (Rule 12A-1 *070, F.A.C.).

5. It is a criminal offense to fraudulently present this certificate to evade the payment of sales tax. Under no circumstances should this certificate be used for the personal benefit of any individual. Violators will be liable for

payment of the sales tax plus a penalty of 200% of the tax, and may be subject to conviction of a third-degree felony. Any violation will require the revocation of this certificate.

6. If you have questions about your exemption certificate, please call Taxpayer Services at 850-488-6800. The mailing address is PO Box 6480, Tallahassee, FL 32314-6480.

LAW ENFORCEMENT EXTRA DUTY REQUEST

☐ **New Vendor (Must completely fill out form)**

☐ **Existing Vendor (*Only need to fill out name and dates required and any updated information*)**

Business/Vendor Name: Epilepsy Association of Central Florida, Inc.

Business/Vendor Address: 109 North Kirkman Road Orlando, Florida 32811

Business/Vendor Phone: 407-4221416 Fax: 407-423-0417

Vendor Type: (i.e. Financial, Construction, Funeral Home, Individual etc.) Health Non -Profit

Primary Contact Name: David Manchon Contact Phone: 407-422-1416 Ext. 101

Email Address: david@ epilepsyassociation.com

Billing Contact Name: Same As Above Contact Phone: Same As Abote

Email Address: david@epilepsyassociation.com

Location of Security Detail: Camp WeWa 201 South Binion Road Apopka Florida 32703

Estimated Number of Attendees: 200

Duties Requested at Detail:

☐ Escort ☒ Security ☐ Traffic Control ☐ Law Enforcement

☐ Patrol ☐ Other (Describe): _____

Is Alcohol Being Served? ☐ No ☒ Yes (if so, a copy of the alcohol permit must be submitted with this form)

READ AND UNDERSTAND THE FOLLOWING REQUIREMENTS:

Approval of employment activities will not be given, where in the judgment of the police chief, the extra-duty or extra-duty employment would be incompatible with the proper discharge of employment duties or would tend to impair, or appear to impair, independent judgment or action in the performance of one's duties.

No extra-duty job or outside employment will be authorized if a potential employer places any restrictions of race, color, gender, or national origin on who may work the job.

Licensed Liquor Establishments or locations where alcohol is being served: (Bar establishments and not a licensed restaurant where the bar is de minimus to the sale of food.)

Officers are requested for the following:

DATE	TIME			#OF OFFICERS	#OF HOURS (*4 hour minimum)
12/2/2023	4:00pm	To	8:30pm	2	4½
		To			
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		To			

I HAVE READ AND UNDERSTAND THE ABOVE LISTED RULES AND COMPENSATION PROCESS.

Vendor Signature

Epilepsy Association of Central Florid
Vendor Name Printed

8/11/2023
Date

Approved by Extra-Duty Coordinator or Police Chief

Date

11/18/23 5K Route/Race

- Completed Special Event Permit Application (Online Form or print form can be requested at events@apopka.net).
- Event Description
- A non-refundable application fee of $50.00 or completed application for waiver of permit fee is due when application is submitted. *Staff will contact you about this step.*
- A certificate of general liability insurance listing the "City of Apopka" as 'Additional Insured' must be submitted. Copy of the declaration sheet and endorsement page must be included. Additional insurance may be required, please see the event insurance requirements.
- A site plan (Map) or Parade/Race Route **MUST** be submitted with your application. Map must identify location of staging, tents, parking, barricades, vendors, and restrooms and must be to scale.
- Letter from the property owner granting permission for use of their property. (if on private property)
- If alcohol will be served at your event you must include the alcohol permit and insurance with the completed permit
- Copies of flyers and advertisements.
- Policies and protocols in regards to CDC Guidelines/COVID-19 & social distancing

Applicant must be present for duration of event.

Organization Name	Reyes Fitness Professionals
Name of Applicant	Andrew Reyes
Mailing Address	1070 Montgomery Road #2286
City	Altamonte Springs
State	FL
Zip Code	32714
Cell Phone	3214415943
Email	theoakcommunityinfo@gmail.com
Is your organization a Non – Profit (501C3) OR Tax Exempt Organization?	No
State of Florida Tax ID Number	82-4767154
Name of the Event	Turkey Trot
Date(s) of the Event	11/18/23
Hours of the Event	7AM-11AM
Location of the Event	Northwest Recreation Complex- 5k Pavilion
Does the location of the event take place on Public or Private Property?	Yes
Anticipated attendance:	50
Briefly describe the event and all activities that will occur during the event:	Fitness Event

Event Category	• Other
Please specify	Organized Fitness Event

Are there flyers or advertisements for this event?	No
Will there be admission fees to your event?	No
Will you be serving alcohol?	No
Is your event open to the public?	Yes
Does your event include food concession?	No
Do you intend to have food trucks at your event?	No
Will there be merchandising vending at your event?	No
Will they need electric?	No
Will you be hiring a private security company for the event?	No
Do you require overnight security?	No
Are there musical entertainment features related to your event?	No
Will amplified sound be used during the event?	Yes
Will any streets be closed or will the flow of traffic be affected by the event?	No
Does your event include the use of tents?	Yes

Please indicate tent location & size on layout. Permits and ground locates may be required.

What size of tents?	10x10

Will inflatables be used at your event?	No
Will your event include any fireworks or pyrotechnics?	No

Date/Time (on site load in and load out)

For events that are held on City Property, set up days and load out days may require additional fees.

Setup/Load In

Date	11/18/2023

Start Time	6:00 AM (EDT)
End Time	7:00 AM (EDT)

Event Dates

Date	11/18/2023
Start Time	7:00 AM (EDT)
End Time	10:00 AM (EDT)

Take Down/Load Out

Date	11/18/2023
Start Time	10:00 AM (EDT)
End Time	11:00 AM (EDT)

I, Being the Applicant/Event Organizer, have read and understand the guidelines contained within the City of Apopka's Special Event Permit Application and agree to conduct my event in accordance. I further understand that failure to abide by these guidelines may result in the denial or forfeiture of my Special Event Permit.

The City of Apopka is not responsible for lost, stolen or damaged items.

I acknowledge that the information contained in this application is true, correct, and complete to the best of my knowledge.

Applicant Signature



Name of Applicant	Andrew J. Reyes
Title of Applicant	Owner
Date Submitted	08/25/2023

The Applicant/Event Organizer shall maintain at all times throughout the duration of the event, a current insurance policy naming the City of Apopka as an additional insured providing coverage for all approved event activities and must be active on the date(s) of the event, including the set-up and break-down period. Failure to provide proof of adequate coverage will result in the denial of the special event permit or cancellation of the event. The City may require subcontractors acting on behalf of the Applicant/Event Organizer to provide proof of insurance or other related documents depending on the scope or location of the event.

- Comprehensive listing of all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers must be submitted no later than forty-five (45) business days prior to the event.
- All certificates of insurance, required extensions to said insurance certificates, copies of insurance policies and insurance agreements must be submitted no later than **thirty (30) business days prior to the event**.

If insurance requirements are not met at least twenty (20) business days prior to the date of the event, your event will be cancelled!

Please provide a copy of your certificate of insurance.

File(s) attached:

Insurance- City of Apopka.pdf

The City of Apopka defines an Applicant/Event Organizer as any individual or organization that is responsible for all aspects of an event to include advertising, marketing, talent costs, insurance, hold harmless agreement contracts, along with all the revenues and expenses for the event. The Applicant/Event Organizer agrees to conduct this event in accordance with the City of Apopka Code of Ordinances (Chapters 46 and 62).

REQUIREMENTS

- Applicant/Event Organizer recognizes the City's authority to halt the operation of the above listed event due to inclement weather or any other safety concern that may arise.
- The City is not responsible or liable for any damage, loss or theft to any vendor or event participant.
- Applicant/Event Organizer agrees that the City may use photographic images and video taken at the event in promotions and publications. These images may be used online or provided to media outlets and/or used in social media applications.

INSURANCE

Before activity setup, or any other site activity begins, Applicant/Event Organizer must have a Certificate of Liability Insurance **(including all extensions to the insurance certificate—to also include a copy of the complete insurance policy)** on file with the City's Risk Management Division. The cost of such insurance shall be the responsibility of the Applicant/Event Organizer and must meet ALL requirements as directed by the City of Apopka. The City reserves the right to increase coverage as determined for higher risk events or activities. This insurance policy must remain in effect throughout the entire duration of the property use beginning with load-in and ending at the conclusion of load-out.

- Applicant/Event Organizer shall, at its sole cost and expense, procure and maintain throughout the term of this agreement, Commercial General Liability and Workers' Compensation insurance, including Employer Liability insurance, with minimum policy limits of $1,000,000 Combined Single Limits, or to the extent and in

such amounts as required and authorized by Florida Law. If such GL insurance contains a general aggregate limit, it shall apply separately to this event in the amount of $2,000,000. Products and completed operations aggregate shall be $1,000,000. Damage to rented premises shall be included at $100,000. The event Applicant/Event Organizer and their representatives who wish to drive on City property to set up or tear down for events, and/or Food Trucks and/or any vehicle that functions as the workplace or is used to perform contracted work must provide an Automobile Liability insurance policy in the minimum amount of $300,000 Combined Single Limit. If alcohol is being served, the Applicant/Event Organizer shall provide evidence of coverage for liquor liability in the minimum amount of $1,000,000. The insurance policy must not exclude Personal Injury/Advertising Injury, Medical, volunteer coverage or spectator liability.

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- Applicant/Event Organizer is solely responsible for all applicable policy premiums, deductibles, and/or self-insured retention attached to any required coverages. Said insurance coverages procured by the Applicant/Event Organizer as required herein, including but not limited to any excess and/or umbrella coverages, shall be considered, and the Applicant/Event Organizer agrees that said insurance coverages it procures as required herein shall be considered, as primary insurance over and above any other insurance, or self–insurance, available to the City, and that any other insurance, or self-insurance available to the City shall be considered secondary to, or in excess of, the insurance coverage(s) procured by the Applicant/Event Organizer as required herein.
- Applicant/Event Organizer shall require and verify that all subcontractors, including but not limited to concessionaires, vendors, exhibitors, and entertainers, maintain insurance meeting all of the requirements stated herein. Furthermore, the insurance policy held by the Applicant/Event Organizer shall have no endorsement(s) restricting, limiting or excluding the subcontractors or work on behalf of the Applicant/Event Organizer by a subcontractor. The Certificate of Insurance submitted by the Applicant/Event Organizer must clearly state that all such subcontractors are "Named Insureds".

Nothing herein shall be construed to extend the City of Apopka's liability beyond that provided in section 768.28, Florida Statutes.

By signing below, I acknowledge that I have read and understand the insurance requirements contained herein. I further understand that my permit application may be declined if I fail to provide the appropriate insurance coverage.

Signature of Applicant



Name of Applicant Andrew J. Reyes

Title of Applicant Owner

Sponsoring Organization Name The Oak

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 03/13/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER
Insurance Canopy
PO Box 34833
North Chesterfield VA 23234

CONTACT NAME: Insurance Canopy Program Support
PHONE (A/C, No, Ext): 844-520-6993 **FAX (A/C, No):** 801-763-1374
E-MAIL ADDRESS: info@insurancecanopy.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: Great American Alliance Insurance Company	26832
INSURER B:	
INSURER C:	
INSURER D:	
INSURER E:	
INSURER F:	

INSURED
Reyes Fitness Professionals, DBA The Oak
1070 Montgomery Road #2286
Altamonte Springs FL 32714

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY X CLAIMS-MADE ☐ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY ☐ PRO-JECT ☐ LOC	X		PLE835233-CPT105786	02/20/2023	02/20/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG ANIMAL BAILEE	$ 2,000,000 $ 300,000 $ 5,000 $ INCLUDED $ 3,000,000 $ 3,000,000 $
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $ $
	☐ UMBRELLA LIAB ☐ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED ☐ RETENTION $						EACH OCCURRENCE AGGREGATE	$ $ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICE/MEMBER EXCLUDED? Y / N ☐ (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A					WC STATU-TORY LIMITS ☐ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $
A	Professional Liability	X		PLE835233-CPT105786	02/20/2023	02/20/2024	INCLUDED	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
It is understood and agreed that the Certificate Holder is named as Additional Insured per attached CG 20 26 - Additional Insured - Designated Person or Organization subject to all policy terms, conditions, and exclusions.

CERTIFICATE HOLDER
City of Apopka
120 East Main Street
Apopka FL 32712

CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – DESIGNATED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

Schedule

Name of Additional Insured Person(s) or Organization(s):

City of Apopka

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

A. **SECTION II - WHO IS AN INSURED** is amended to include as an Additional Insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury," "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

1. in the performance of your ongoing operations; or

2. in connection with your premises owned by or rented to you.

However:

1. the insurance afforded to such additional insured only applies to the extent permitted by law; and

2. if coverage provided to the Additional Insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these Additional Insureds, the following is added to **SECTION III – LIMITS OF INSURANCE:**

If coverage provided to the Additional Insured is required by a contract or agreement, the most we will pay on behalf of the Additional Insured is the amount of insurance:

1. required by the contract or agreement; or

2. available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

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ORDINANCE NO. 3023

AN ORDINANCE OF THE CITY OF APOPKA, FLORIDA, AMENDING THE FUTURE LAND USE ELEMENT OF THE APOPKA COMPREHENSIVE PLAN OF THE CITY OF APOPKA; REPEALING POLICY 3.1.h.ii, HIGH DENSITY RESIDENTIAL-25, PROVIDING FOR SEVERABILITY; AND FOR AN EFFECTIVE DATE.

WHEREAS, the City Council of the City of Apopka adopted the Apopka Comprehensive Plan by Ordinance No. 653 on October 2, 1991, pursuant to Section 163.3184, Florida Statutes and most recently amended it by Ordinance No. 3008 on June 21, 2023; and

WHEREAS, the City Council adopted Ordinance No. 2747 on May 6, 2020, creating Future Land Use Element Policy 3.1.h.ii, which created a new future land use designation, High Density Residential-25 (HDR-25), which permits up to a maximum 25 dwelling units per acre; and

WHEREAS, the City of Apopka City Council has determined that the HDR-25 future land use designation is no longer in the best interest of the City of Apopka due to changing market conditions; and

WHEREAS, the City of Apopka's Local Planning Agency (Planning Commission) has, in preparation of the amended version of the Apopka Comprehensive Plan, analyzed the proposed amendment pursuant to Chapter 163, Part II, F.S., found it to be consistent with the intent of the Apopka Comprehensive Plan, and held public hearings providing for full public participation.

NOW THEREFORE, BE IT ORDAINED, by the City Council of the City of Apopka, Florida, as follows:

Section I: The City of Apopka hereby amends the Future Land Use Element of the adopted Comprehensive Plan as follows:

Policy 3.1.h.ii, High Density Residential-25 of the Future Land Use Element of the Apopka Comprehensive Plan is hereby repealed as set forth within Exhibit "A" of this ordinance.

Section II: This Ordinance shall become effective following adoption and upon issuance by the Department of Economic Opportunity or the Administration Commission, as may be applicable, a final order finding the amendment to be in compliance in accordance with Chapter 163.3184.

Section III: If any provision or portion of this Ordinance is declared by any court of competent jurisdiction to be void, unconstitutional, or unenforceable, then all remaining provisions and portions of this Ordinance shall remain in full force and effect.

Section IV: That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

Section V: This Ordinance shall become effective upon issuance of a final order by the Florida Department of Economic Opportunity finding the plan amendment in compliance in accordance with s.163.3184 (2)(a), Florida Statute.

ADOPTED at a regular meeting of the City Council of the City of Apopka, Florida, this _____ day of _____, 2023.

READ FIRST TIME:

READ SECOND TIME AND ADOPTED:

ATTEST:

_____ _____

Susan Bone, City Clerk Bryan Nelson, Mayor

Approved as to form and legal sufficiency:

_____

Cliff Shepard, City Attorney

DULY ADVERTISED FOR PUBLIC HEARING:

EXHIBIT "A"

Policy 3.1.h. Proposed Amendment
Future Land Use Element, Apopka Comprehensive Plan

~~i.~~ High Density Residential – ~~15 (HDR-15)~~
The primary use shall be residential dwelling units up to 15 dwelling units per acre; elementary schools; middle schools, high schools; supporting infrastructure of less than five acres.

Special exception uses shall include:
(1) Institutional uses of ten acres or less;
(2) Supporting infrastructure and public facilities of five acres or more;

Planned Development uses may include:
(1) All primary uses
(2) All special exception uses
(3) Retail commercial uses at a rate not in excess of 50 square feet of gross floor area per residential unit in the PUD. Commercial uses must be completely internalized within the PUD.
(4) Other uses deemed compatible with and complementary to the other proposed master planned uses and the surrounding neighborhoods

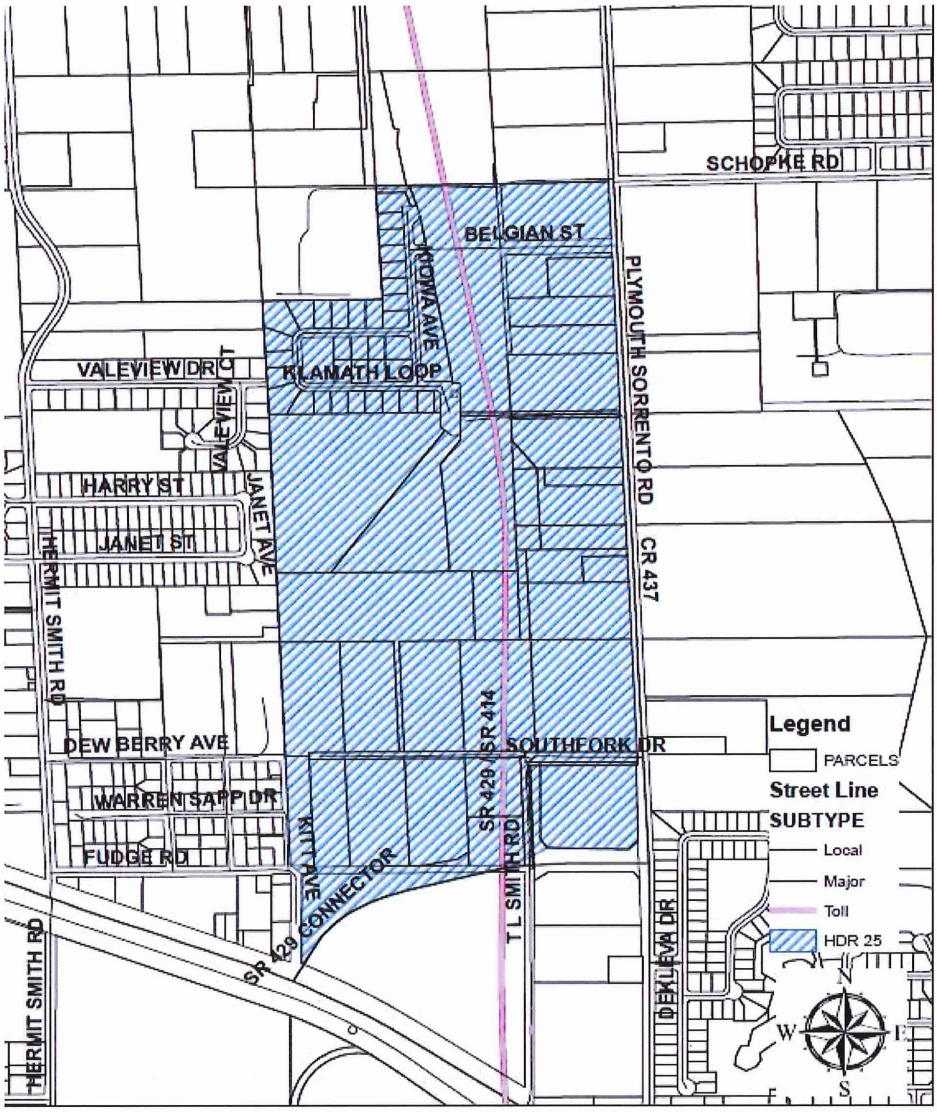
~~**ii. High Density Residential – 25 (HDR-25)**~~
~~The primary use shall be residential dwelling units with a minimum of 15 units per acre up to a maximum of 25 dwelling units per acre; elementary schools; middle schools, high schools; supporting infrastructure of less than five acres. The HDR-25 Designation may be assigned to properties located within the geographical areas delineated within Maps 1-1.a to 1-1.d. through a Future Land Use Map Amendment. Properties assigned the HDR-25 Designation must have access to a collector or arterial road, or planned as a component of a pedestrian-oriented, mixed-use master plan with internal "complete street" connectivity. Only properties located inside an HDR-25 edibility area, as delineated in Maps 1-1.a to 1-1.d, are eligible to be assigned this designation through a Future Land Use Map amendment.~~

~~Special exception uses shall include:~~
~~(1) Institutional uses of ten acres or less;~~
~~(2) Supporting infrastructure and public facilities of five acres or more;~~

~~Planned Development uses may include:~~
~~(1) All primary uses~~
~~(2) All special exception uses~~
~~(3) Retail commercial uses at a rate not in excess of 50 square feet of gross floor area per residential unit in the PUD. Commercial uses must be completely internalized within the PUD.~~
~~(4) Other uses deemed compatible with and complementary to the other proposed master planned uses and the surrounding neighborhoods.~~

DELETE

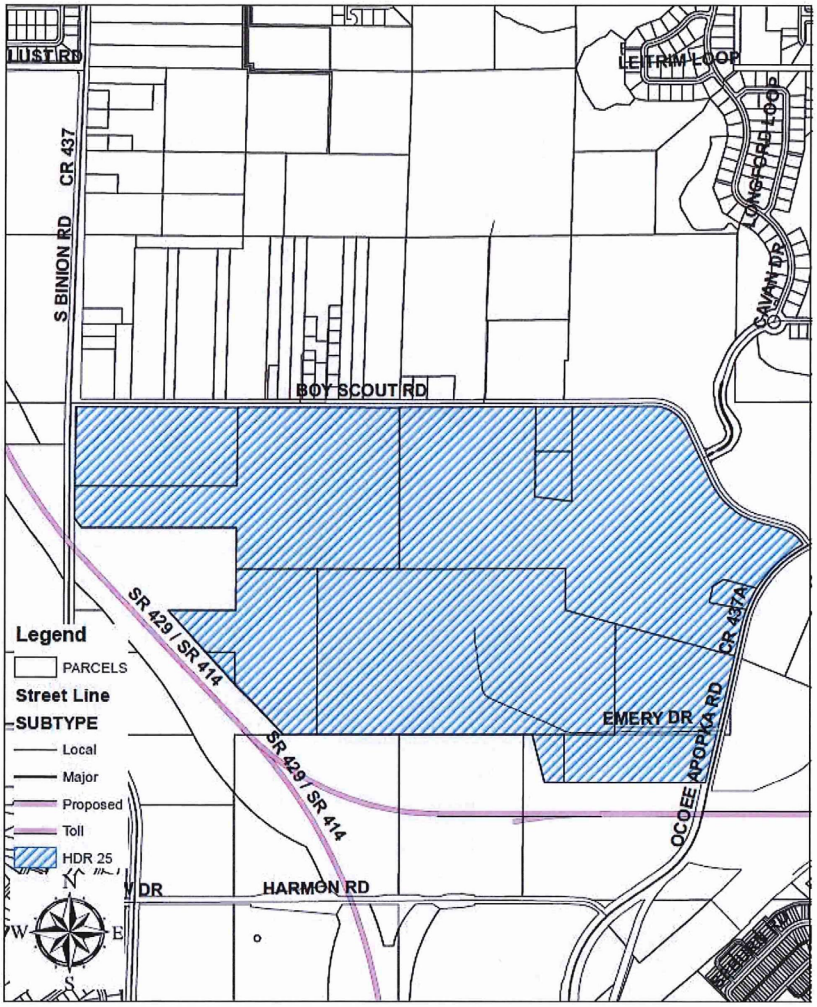
Map 1-1.a: Policy 3.1.h.ii
S.R. 429 / U.S. 441 Area
(Ord. No. 2747; May 6, 2020)
(Map delineates areas eligible for designation as HDR-25 through a Future Land Use Amendment.)



1

DELETE

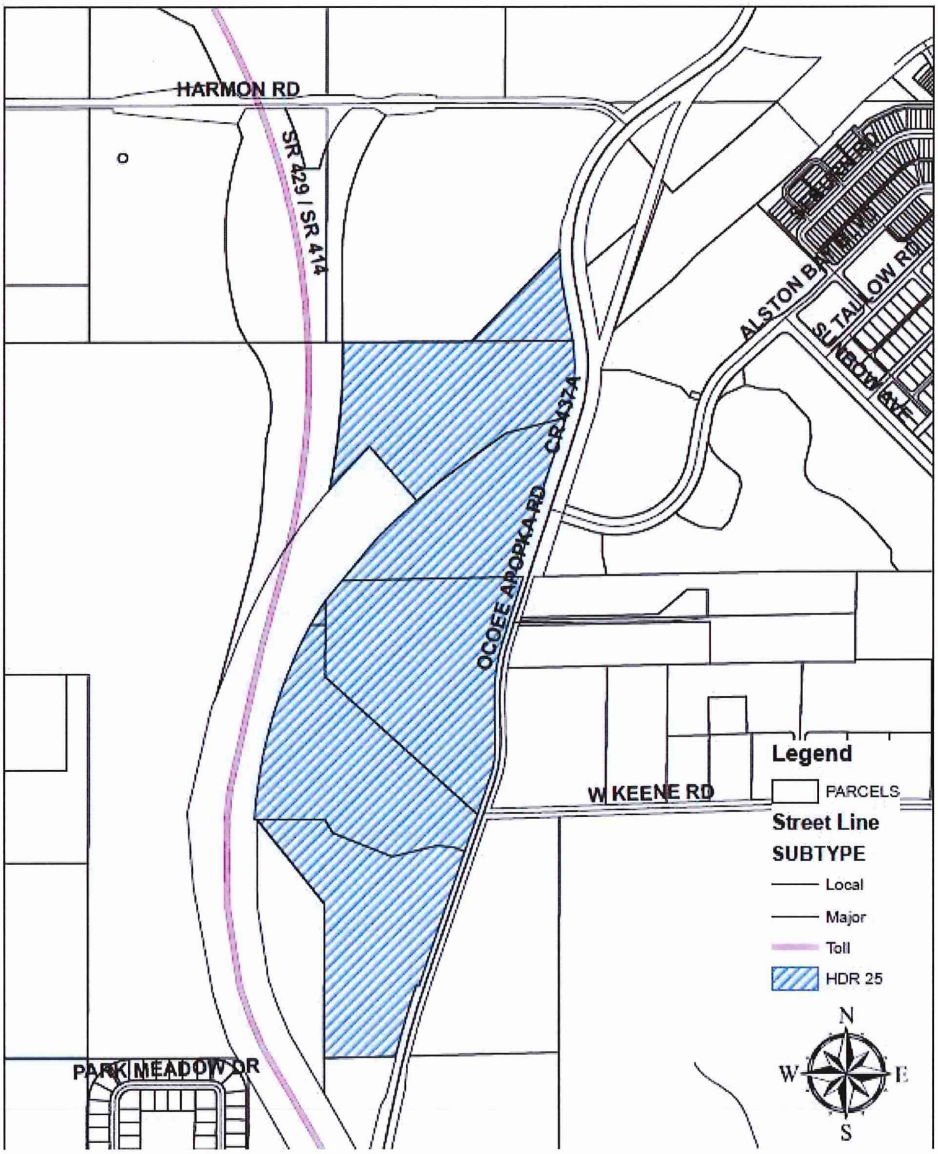
Map 1-1.b: Policy 3.1.h.ii
East Shore Parkway Area
(Ord. No. 2747, May 6, 2020)
(Map delineates areas eligible for designation as HDR-25 through a Future Land Use Amendment.)



1-124

DELETE

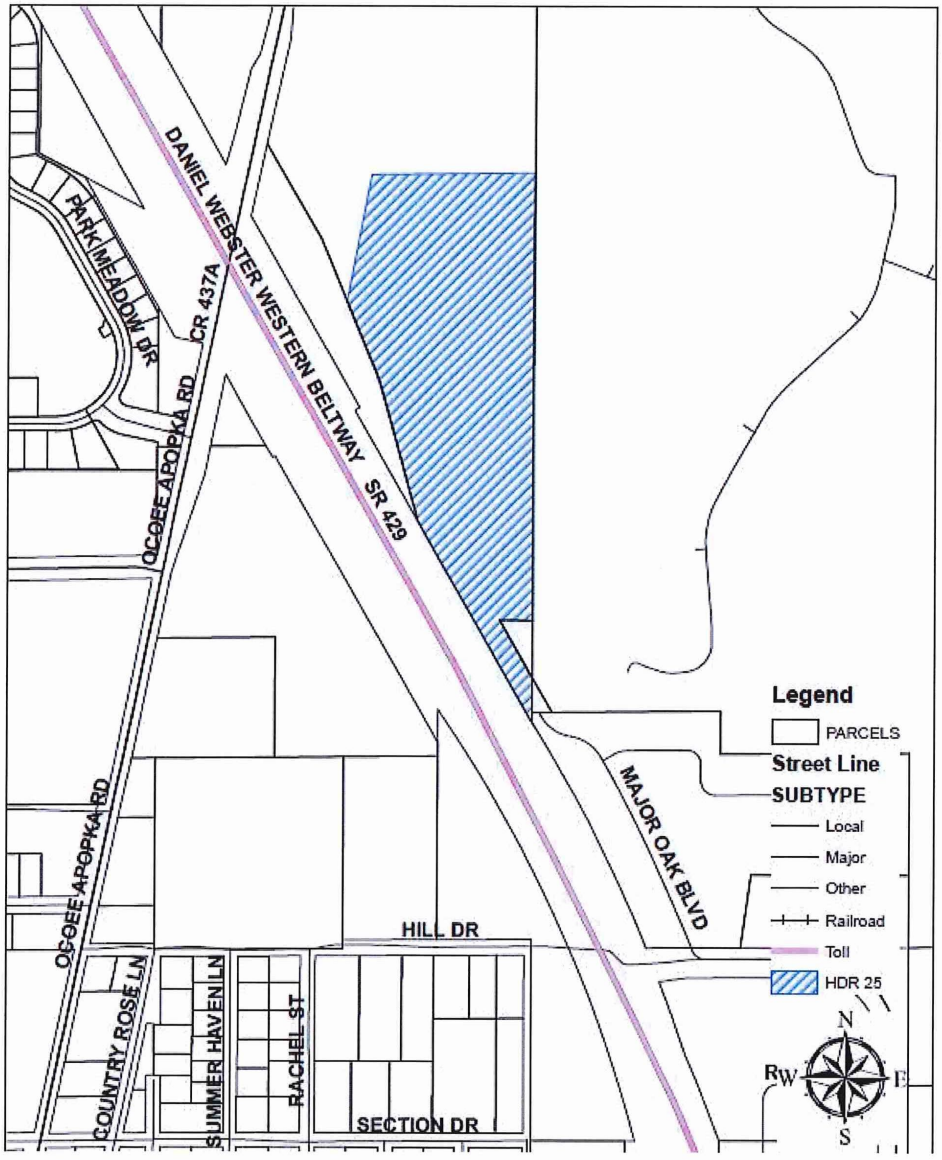
Map 1-1.c: Policy 3.1.h.ii
East Shore New Market Area
(Ord. No. 2747; May 6, 2020)
(Map delineates areas eligible for designation as HDR-25 through a Future Land Use Amendment.)



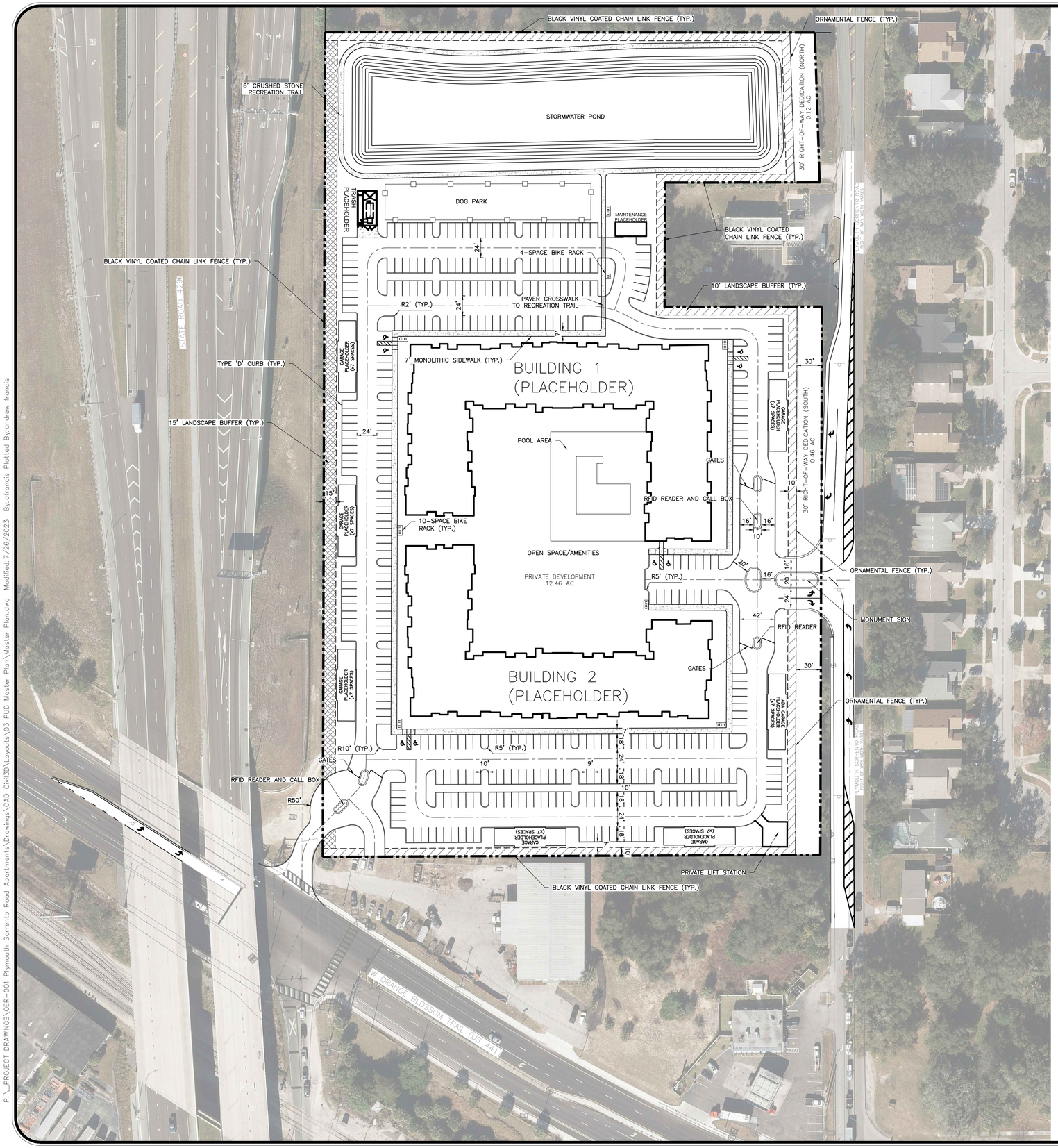
1-125

DELETE

Map 1-1.d: Policy 3.1.h.ii
Oak Pointe North Area
(Ord. No. 2747; May 6, 2020)
(Map delineates areas eligible for designation as HDR-25 through a Future Land Use Amendment.)



1-126



LEGEND

- PROPERTY BOUNDARY
- 10' LANDSCAPE BUFFER
- 15' LANDSCAPE BUFFER

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)
1 inch = 60 ft.

SITE DATA:

1. OCPA - PARCEL ID #: 06-21-28-7172-08-040, 06-21-28-7172-08-050
2. PROPERTY ADDRESS: 750 & 922 PLYMOUTH SORRENTO ROAD APOPKA, FLORIDA 34712
3. TOTAL PROPERTY AREA: 13.04 AC
4. RIGHT-OF-WAY DEDICATION: 0.58 AC
5. DEVELOPABLE AREA: 12.46 AC
6. FEMA FIRM MAP FLOOD ZONE: X
   FIRM PANEL #12095C0110H DATED SEPTEMBER. 24, 2021.
7. EXISTING FUTURE LAND USE: AG, COMM
8. PROPOSED FUTURE LAND USE: HDR-25
9. ADJACENT FUTURE LAND USE:

NORTH	R (COUNTY)
SOUTH	C (COUNTY), PD (COUNTY)
EAST	RL (COUNTY)
WEST	COMM (CITY), MU (CITY)

10. EXISTING ZONING: T, C-C
11. PROPOSED ZONING: PD
12. ADJACENT ZONING:

NORTH	A-1 (COUNTY)
SOUTH	RSTD CD-2 (COUNTY), PD (COUNTY)
EAST	RTF (CITY)
WEST	MU-ES-GT (CITY)

13. DEVELOPMENT PROGRAM: 242 UNITS
14. ALLOWED DENSITY (HDR-25): 25.00 DU/AC
15. PROPOSED DENSITY: 18.56 DU/AC
16. MAXIMUM BUILDING HEIGHT*: 49 ft.

*BUILDING HEIGHT IS MEASURED AS THE VERTICAL DISTANCE FROM FINISHED GRADE TO THE MEAN HEIGHT LEVEL BETWEEN THE EAVES PER THE CITY OF APOPKA LAND DEVELOPMENT CODE SECTION 10.2.1.

17. MINIMUM LIVING AREA:

1 BEDROOM	690 SF
2 BEDROOM	1,110 SF
3 BEDROOM	1,400 SF

18. PARKING SPACES REQUIRED: 533 SPACES

PER SECTION 5.1.6. OF THE CITY OF APOPKA 2019 LAND DEVELOPMENT CODE.
(242 DWELLING UNITS x 2 RESIDENT SPACES PER UNIT = 484 SPACES)
(484 RESIDENT SPACES x 0.1 VISITOR SPACE PER RESIDENT SPACE = 49 SPACES)

19. PARKING SPACES PROPOSED:

9' X 18' STANDARD SPACES	367
12' X 18' ADA SPACES	8
GARAGE SPACES	48
ADA GARAGE SPACES	1
TOTAL	424 (1.75 SPACES/DU)**

**REFER TO ALTERNATIVE PARKING ANALYSIS BY TRAFFIC & MOBILITY CONSULTANTS, LLC.

20. BICYCLE PARKING REQUIRED:

SHORT TERM (1 PER 20 UNITS)	13 SPACES
LONG TERM (1 PER 4 UNITS)	61 SPACES
TOTAL	74 SPACES

21. BICYCLE PARKING PROPOSED:

1x 4-SPACE BIKE RACK	4 SPACES
7x 10-SPACE BIKE RACK	70 SPACES
TOTAL	74 SPACES

22. SETBACKS:

	CODE	PROPOSED
FRONT	25ft.	100 ft***
REAR	25 ft.	100 ft.
SIDE	15 ft	45 ft.
STRUCTURES****		
CORNER	25 ft.	N/A

***MINIMUM FRONT SETBACK MEASURED FROM EDGE OF BUILDING TO WESTERN BOUNDARY OF DEDICATED RIGHT-OF-WAY.

****ACCESSORY STRUCTURES SHALL HAVE A MINIMUM SEPARATION OF 10'.

23. OPEN SPACE REQUIRED: 30% (3.91 AC)
24. OPEN SPACE PROPOSED:

LANDSCAPE BUFFERS:	±0.65 AC
POOL/AMENITY:	±1.40 AC
DOG PARK/TRAIL:	±0.79 AC
STORMWATER POND (75%):	±1.29 AC
	±4.13 AC (±43.4%)

25. PROPOSED AMENITIES:
    - ON-SITE LEASING OFFICE
    - CLUBROOM
    - RESORT-STYLE SALTWATER POOL
    - AMENITY DECK
    - POOL CABANA/PAVILION
    - RECREATION LAWN
    - CONFERENCE ROOM
    - CO-WORKING SPACE
    - FITNESS CENTER
    - YOGA LAWN
    - DOG PARK
    - PET SPA
    - OUTDOOR GRILLS
    - WALKING TRAIL
26. GREEN BUILDING STANDARDS:
    - -ELEVATE NEW AND/OR EXISTING STRUCTURES MORE THAN 3 FEET ABOVE BASE FLOOD ELEVATION 4.00+ pt.

BY	DESCRIPTION	REV.	DATE

CIVIL ENGINEERING | LAND PLANNING

APPIAN ENGINEERING LLC.

APPIANFL.COM • 407.960.5868

2221 Lee Road, Suite 27, Winter Park, Florida 32789

STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NO. 32274

PD MASTER PLAN

PLYMOUTH SORRENTO APARTMENTS
CITY OF APOPKA, FLORIDA

DRAWN:	DESIGNED:	CHECKED:	DATE:
A. FRANCIS	S. SIERRA-GIL	L. CLASSON	7/25/2023

SCALE	PROJECT	SHEET
1" = 60'	OER-001	C1.0

NOT FOR CONSTRUCTION

7/26/23

P:_PROJECT DRAWINGS\OER-001 Plymouth Sorrento Road Apartments\Drawings\CAD Civil3D\Layouts\03 PUD Master Plan\Master Plan.dwg Modified: 7/26/2023 By:afrancis Plotted By:andrew francis

This instrument prepared by and after
recording return to:

Jonathan P. Huels
Lowndes
215 N. Eola Drive
Orlando, Florida 32801

----------[SPACE ABOVE THIS LINE FOR RECORDING DATA]----------

PLANNED DEVELOPMENT AGREEMENT

THIS PLANNED DEVELOPMENT AGREEMENT (**"Agreement"**) is made this ___ day of _____, 20__, by and between **Gary D. Charlton as Trustee for the Gardy D. Charlton Living Trust**, whose address is 1236 Lavanham Court, Apopka, FL 32712-3069, and **Peggy G. Charlton as Trustee for the Peggy G. Charlton Living Trust**, whose address is 1236 Lavanham Court, Apopka, FL 32712-3069 ("**Owner**"), **111 Pursuit LLC**, a Florida limited liability company, whose address is 2400 Apopka Blvd., Apopka, FL 32703 (**"Developer"**), and the **CITY OF APOPKA, FLORIDA**, a municipality organized and existing under the laws of the State of Florida, whose address is 120 E. Main Street, Apopka, FL 32703 ("**City**"). Owner, Developer and the City are sometimes together referred to herein as the "Parties" or separately as a "Party".

RECITALS:

A. Owner is the fee simple owner of that certain real property more particularly described in **Exhibit "A"** attached hereto and incorporated herein (**"Property"**) (for purposes of this Agreement, the aforesaid Property is also herein referred to as the "**Development**").

B. Developer is under contract to purchase the Property from Owner for the purpose of developing the Property pursuant to that certain Planned Development / Master Plan for Plymouth Sorrento Apartments (the "**PD Plan**") prepared by Appian Engineering LLC (the "**Engineer**"), and this Agreement.

C. The Developer desires to develop the Property as a two hundred forty-two (242) unit apartment complex, together with related amenities as more particularly set forth in the PD Plan (**"Intended Improvements"**).

D. The City requires that Developer develop the Property in accordance with the City's Comprehensive Plan ("**Comprehensive Plan**"), its Land Development Code ("**LDC**"), and the terms and conditions of this Agreement.

E. Pursuant to the City's Land Development Code ("**LDC**") Section 3.7.2.F.2, this Agreement is a required component for the establishment of a PD district to, *inter alia*, establish the conditions related to the approval of the PD Plan, provision of public facilities in the Development, environmental protection of the Property, community benefits and amenities in the

Development, and other provisions determined by the City to be relevant and necessary to the development of the Property.

F. The current zoning classification of the Property is Community Commercial and Transitional (T), and the Owner and Developer desire to change the zoning classification of the Property to Planned Development (PD) pursuant to the PD Plan and Comprehensive Plan.

G. The Owner, Developer, and City desire to enter into this Agreement to facilitate development of the Property in accordance with the PD Plan in a mutually agreeable manner, resolve any inconsistencies in applicable provisions of the LDC with the PD Plan, and set forth the agreements and conditions that shall be applicable throughout the Development.

H. The terms and conditions set forth in this Agreement are consistent with and further the goals, objectives, and policies of the Comprehensive Plan, and construction of the Development pursuant to the PD Plan and Standards, and this Agreement will provide the City and its residents with a quality residential development which meets or exceeds the requirements of the LDC, and which will provide recreational / open spaces for resident use, and preserve natural habitat and wetland areas.

I. The Development is approved for development pursuant to the PD Plan, a copy of which is attached hereto as **Exhibit "B"** and is incorporated herein, subject to the terms and conditions set forth in this Agreement.

NOW, THEREFORE, for and in consideration of the premises and mutual covenants contained herein, and other good and valuable consideration, the receipt, adequacy and sufficiency of which are hereby expressly acknowledged by the parties hereto, the parties hereto, intending to be legally bound, hereby covenant and agree as follows:

1. Recitals. The foregoing recitals are true and correct and are incorporated herein by this reference.

2. Development Specifications. The Development consists of the following:

a) Gross Acreage: 13.04 acres +/-

b) Net Developable Acreage (gross acreage less surface waters, wetlands and upland floodplains): 13.04 acres +/-

c) Net Residential Density: 18.56 d.u./ac

d) Maximum Number of Dwelling Units Allowed: 326

e) Total Number of Dwelling Units Proposed: 242

f) Phasing: The Development will be developed and constructed concurrently but the individual sections of buildings will be phased for final inspections and certificates of Occupancy. The internal site phasing schedule will be defined during the Major Development Plan and Construction Site Plan for the Development

3. Provision of Public Facilities.:

a) Right of Way:

i. Developer will convey to City 30-foot strip adjacent to existing right-of-way in conjunction with future expansion of Plymouth Sorrento Road prior to final certificate of occupancy.

b) Utilities:

i. Potable water, reclaimed water, and wastewater services shall be provided by the City. Developer shall be responsible for the design and installation of on-site potable water, reclaimed water, and wastewater facilities in compliance with applicable City, State of Florida, and federal regulation. Easements necessary for the construction, installation, and maintenance of the City Owned on-site potable water, reclaimed water, and wastewater facilities shall be granted to the City prior to issuance of final certificate of occupancy.

ii. Electric services shall be provided by Duke Energy. Easements necessary for the construction, installation, and maintenance of the on-site electric facilities shall be granted to the provider prior to issuance of final certificate of occupancy.

iii. Cable television / telecommunications services shall be provided by Charter Communications (aka Spectrum) or Century Link (aka Lumen). Easements necessary for the construction, installation, and maintenance of the onsite cable television / telecommunications facilities shall be granted to the provider prior to issuance of final certificate of occupancy.

iv. Fire protection services shall be provided by the City. Developer shall be responsible for the design and installation of on-site fire protection facilities in compliance with applicable City, State of Florida, and federal regulation. Easements necessary for the construction, installation, and maintenance of the City Owned on-site fire protection facilities shall be granted to the City prior to issuance of final certificate of occupancy.

v. Solid waste / trash collection services shall be provided by the City of Apopka.

Commented [JS1]: It is my understanding that Public Services may now prefer a separate Utility Service Agreement.

c) Stormwater:

i. Stormwater for the proposed development is proposed to utilize a traditional excavated stormwater management facility

4. Community Benefits and Amenities.

a) Open Space Set Aside Area Requirements. Pursuant to LDC Section 5.4, Table 5.4.4, Required Open Space Set Aside Area is 30% of Net Developable Acreage for residential PD Districts. Based upon a Net Developable Acreage of 13.04 acres, the Required Open Space Set Aside Area for the Development is 3.91 acres. The PD Plan contemplates a total Open Space Set Aside Area of 4.13 acres, which is 32% of Net Developable Acreage in the Development, exceeding the Open Space Set Aside requirements of the LDC.

b) Active Recreation Area Requirements. Pursuant to LDC Section 5.4, Table 5.4.5, Active Recreation Area is included within the Open Space Set Aside Area. The PD Plan contemplates a total Active Recreation Area of 2.19 acres, which is 53% of the required Open Space Set Aside Area.

c) Amenities. The following amenities will be provided within the Development:

On-site Leasing Office
Clubroom
Resort-Style Saltwater Pool
Amenity Deck
Pool Cabana/Pavilion
Recreation Lawn
Conference Room
Co-Working Pace
Fitness Center
Yoga Lawn
Dog Park
Pet Spa
Outdoor Grills
Walking Trail

5. Development of Subject Property. Except as otherwise set forth herein as the responsibility of the City, Developer shall design, permit and construct, at its own cost and expense, all Intended Improvements related to the Development. If applicable, the City and Developer shall enter into an Improvement Agreement consistent with the provisions set forth in Section 5.15, LDC, prior to commencement of construction of the Development.

a) Improved Architectural Design. The Intended Improvements shall comply Section 3.2.2 - Multi-family Architecture, City of Apopka Design Guidelines (the "**Design Design Guidelines**"). Pursuant to the Design Guidelines, the buildings shall have a recognizable top including roof overhangs, richly textured materials and/or differently colored materials. All support structures shall be of a similar style, color, design and materials as used for the principal structure. Mechanical equipment on the ground shall have associated landscape screening.

Commented [JS2]: Does this proposed PD include design standards that are an improvement to the City's DDG? This term seems to imply this but it appears that the design standards for this development is deferred to the minimum requirements of the DDG. Clarify on the comment response.

b) Green Building. The Development shall comply with Section 5.11, LDC, and incorporate at least four (4) points from the options set forth in Table 5.11.4.B, LDC. Subject to final design requirements, the Property will be developed utilizing the following Green Building Standards:

i. Resiliency to Natural Hazards: Elevate structures more than 3 feet above base flood elevation (BFE) (4.0 points based on proposed FFE minimum of 122 feet which is 55.1 feet above BFE which is at elevation 66.9 feet).

Notwithstanding the foregoing, Developer shall be permitted to use alternative Green Building Standards or additional Green Building Standards to comply with Section 5.11, LDC, which may be addressed during the Construction Plan approval process.

c) Construction Plans. The Intended Improvements shall be constructed in accordance with the construction plans approved by City through its standard plans review process.

d) Impact Fees. At the time of issuance of any building permits for the Development, Developer shall pay all applicable impact fees in amounts which are in effect at the time of building permit issuance.

6. Consistency with Comprehensive Plan. City hereby finds that this Agreement is consistent with the Comprehensive Plan and other City governing documents, including but not limited to the LDC, and is a legislative act of the City Council. City further finds that this Agreement promotes the public health, safety, and welfare, and is consistent with, and a proper exercise of, City's powers under the Municipal Home Rule Powers Act, as provided in Section 2(b), Article VIII of the Florida Constitution, Chapter 166.021, Florida Statutes, and City's police powers.

7. Justifications for Residential Development Standards. The purpose of the Planned Development district, per Section 3.7.2.A, LDC, is to encourage innovative, integrated, and efficient land planning and physical design concepts to achieve a high quality of development, environmental sensitivity, energy efficiency, and adequate public facilities and services by, *inter alia*:

a) reducing in the inflexibility of zoning district standards;

b) allowing greater flexibility in the form and design of development, pedestrian and traffic circulation, respecting natural features of the land and protecting the environment, and the location and integration of open space and civic space into the development;

c) allowing more efficient use of land, with smaller networks of streets and utilities;

d) providing pedestrian connections within the site and the public right-of-way; and

e) promoting development forms and patterns that respect the character ~~of established~~of established surrounding neighborhoods.

8. Minor Amendments and Adjustments to Approved PD Plan. The Parties agree that a Development of this type requires ongoing day-to-day decisions that may result in minor or insignificant changes to the Development (in addition to administrative adjustments). Such "Minor Adjustments" are those which do not materially affect or modify the Development and are typical of developments of this type. No such Minor Adjustment may modify or otherwise adversely impact the criteria outlined in the approved PD Plan. Developer is authorized to make such Minor Adjustments as are necessary in its professional discretion and in the ordinary course of business with approval of City or the City Designee. If Developer is in doubt as to whether a matter is a Minor Adjustment, Developer may from time to time request the concurrence of the City Designee that a particular matter involves a Minor Adjustment, which request for concurrence shall be in writing, and which concurrence shall also be in writing, shall not be unreasonably withheld, conditioned or delayed, and shall be binding upon City and the Developer.

9. Obligation to Adhere to Requirements of Law. Owner, Developer and City agree that each Party and its respective successors and assigns will be bound by the provisions of this Agreement, as well as all applicable Federal, State and local laws, as the same may be amended or created from time to time. No clause or provision of this Agreement shall be construed or excuse the observance of any requirement of any law by Owner, Developer or City. Failure of this Agreement to address a particular permit, condition, term, or restriction shall not relieve Owner, Developer or City of the necessity of complying with the law governing said permitting requirements, conditions, term, or restriction.

10. Binding Effect. All terms and provisions of this Agreement are binding upon the parties hereto and their respective successors and assigns and all rights, privileges, benefits and burdens created hereunder are covenants running with the Property, binding upon and inuring to the benefit of the parties hereto and their respective successors and assigns. Each Party acknowledges and agrees that the other shall have the right to assign its rights and obligations under this Agreement to any of its successors or assigns.

Notwithstanding anything in the foregoing, or elsewhere in this Agreement, to the contrary, this Agreement, and all covenants created hereunder, shall be released from, and shall no longer encumber title to, any portion of the Property that is conveyed, by plat or otherwise, to the City, County, or other applicable local government.

Within fifteen (15) days following the written request of Owner or Developer, City shall execute an instrument in recordable form acknowledging that any and all obligations under and pursuant to this Agreement have been fully satisfied and performed, or specifying which, if any, obligations under this Agreement remain unsatisfied or unperformed, and Owner or Developer may record any such instrument in the Public Records of Orange County, Florida.

11. Entire Agreement and Amendment. This Agreement sets forth the entire agreement between Owner, Developer, and City relating to the subject matter herein and supersedes all prior and contemporaneous negotiations, understanding and agreements, written or oral, between the

parties. Any amendment to this Agreement shall only be effective if in writing, executed by Owner, Developer, and City, and recorded in the Public Records of Orange County.

12. Default. Failure by any Party to perform any of its obligations hereunder, shall constitute a default, entitling any non-defaulting Party to pursue such remedies as may be available to it under Florida law or equity, including, without limitation, an action for specific performance and/or injunctive relief, writ of mandamus, or termination hereof. Prior to termination of this Agreement or either Party filing an action as a result of a default under this Agreement, the non-defaulting Party shall first provide the defaulting Party with written notice of said default. Upon receipt of said notice, the defaulting Party shall be provided a thirty (30) day opportunity in which to cure the default, except where otherwise provided herein.

13. Attorneys' Fees. In the event of any dispute hereunder or of any action to interpret or enforce this Agreement, any provision hereof or any matter arising herefrom, the prevailing party shall be entitled to recover its reasonable costs, fees and expenses, including, but not limited to, witness fees, expert fees, consultant fees, attorney (in-house and outside counsel), paralegal and legal assistant fees, costs and expenses and other professional fees, costs and expenses whether suit be brought or not, and whether in settlement, in any declaratory action, in any bankruptcy case or proceeding, at trial or on appeal or at any rehearing.

14. Force Majeure. Except as otherwise expressly provided in this Agreement, no Party shall be liable for any breach of this Agreement for any delay or failure of performance resulting from any cause beyond such Party's reasonable control, including but not limited to the weather, strikes or labor disputes, adverse rulings in third-party lawsuits, casualty, war, terrorist acts, riots or civil disturbances, acts of civil or military authorities, pandemics, or acts of God, or governmental action in response to such causes (individually, a "**force majeure**") provided the Party affected takes all reasonably necessary steps to resume full performance.

15. Construction. Each party hereto hereby acknowledges that all parties hereto participated equally in the drafting of this Agreement and that, accordingly, no court construing this Agreement shall construe it more stringently against one party than the other. As used in this Agreement, the plural includes the singular, and the singular includes the plural. Use of one gender includes all genders. Subtitles of Paragraphs used in this Agreement are for convenient reference only and shall not limit, define or otherwise affect the substance or construction of provisions of this Agreement.

16. Execution and Counterparts. To facilitate execution, the parties hereto agree that this Agreement may be executed in as many counterparts as may be required and it shall not be necessary that the signature of, or on behalf of, each party, or that the signatures of all persons required to bind any party, appear on each counterpart; it shall be sufficient that the signature of, or on behalf of, each party, or that the signatures of the persons required to bind any party, appear on one or more of such counterparts. All counterparts shall collectively constitute a single agreement.

17. Governing Law/Venue. This Agreement shall be governed by and construed under the laws of the State of Florida. Venue for any action arising out of this Agreement shall be Orange County, Florida.

18. Notices. Any notice, request, demand, instruction or other communication to be given to either party hereunder shall be in writing and shall be (i) hand delivered, or (ii) sent by Federal Express or a comparable overnight mail service, or (iii) mailed by U.S. registered or certified mail, return receipt requested, postage prepaid, or (iv) transmitted by e-mail, facsimile or telecopier with a copy of such notice promptly delivered by one of the other approved methods specified herein, to the Parties at their respective addresses set forth below. Any notice delivered as aforesaid shall be deemed to have been given upon actual delivery of said notice at the appropriate address set forth below or upon refusal by the addressee to accept delivery of such notice. Each party's counsel is expressly permitted to execute and deliver notices for its respective client. The addressees and addresses for the purpose of this Paragraph 20 may be changed by giving notice of such change in compliance with this Paragraph 20. Unless and until such written notice is delivered, the last addressee and address stated herein shall be deemed to continue in effect for all purposes hereunder.

If to City:	City of Apopka Attn: City Administrator 120 E. Main Street Apopka, Florida 32703
If to Owners:	Gary D. Charlton as Trustee for the Gardy D. Charlton Living Trust 1236 Lavanham Court Apopka, FL 32712-3069 Peggy G. Charlton as Trustee for the Peggy G. Charlton Living Trust 1236 Lavanham Court Apopka, FL 32712-3069
If to Developer:	111 Pursuit LLC Attn: Erik Halverson 2400 Apopka Blvd. Apopka, FL 32703
With copy to:	Lowndes Attn: Jonathan P. Huels 215 N. Eola Drive Orlando Florida 32801

19. Recording in Public Records. This Agreement, executed by both Parties shall be recorded in the Public Records of Orange County, Florida. The City Clerk shall ensure the proper recording is accomplished within fourteen (14) days after the execution of this Agreement by the Parties.

20. Sovereign Immunity. Nothing contained in this Agreement shall be construed as a waiver of City's right to sovereign immunity for tort claims under and subject to §768.28, Florida Statutes.

21. Severability. This Agreement is intended to be performed in accordance with, and only to the extent permitted by, all applicable laws, ordinances, rules and regulations. If any provision of this Agreement or the application thereof to any person or circumstance shall, for any reason and to any extent, be invalid or unenforceable, the remainder of this Agreement and the application of such provision to other persons or circumstances shall not be affected thereby but rather shall be enforced to the greatest extent permitted by law.

22. Effective Date. The "Effective Date" of this Agreement is the date when this Agreement is duly recorded in the Public Records of Orange County, Florida.

[Intentionally Blank-Signatures Begin on Following Page]

IN WITNESS WHEREOF, the Parties have executed this Agreement and affixed their seals the day and year first above written.

"**OWNER**"

_____
Print Name: _____

By: _____
Print Name: Gary D. Charlton as Trustee for the Gary D. Charlton Living Trust

_____
Print Name: _____

STATE OF FLORIDA

COUNTY OF _____

The foregoing instrument was acknowledged before me by means of __ physical presence or __ online notarization, on this _____ day of _____, 2023, by Gary D. Charlton as Trustee for the Gary D. Charlton Living Trust He/she appeared by *(check one)* ☐ physical appearance or ☐ online notarization, and *(check one)* ☐ is personally known to me or ☐ has produced _____ as identification.

_____
Print Name:_____
Notary Public
My Commission Expires:_____
Commission Number:_____

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

Witnesses:

"**OWNER**"

_____
Print Name: _____

By: _____
Print Name: Peggy G. Charlton as Trustee for the Peggy G. Charlton Living Trust

_____
Print Name: _____

STATE OF FLORIDA

COUNTY OF _____

The foregoing instrument was acknowledged before me by means of __ physical presence or __ online notarization, on this _____ day of _____, 2023, by Peggy G. Charlton as Trustee for the Peggy G. Charlton Living Trust. He/she appeared by *(check one)* ☐ physical appearance or ☐ online notarization, and *(check one)* ☐ is personally known to me or ☐ has produced _____ as identification.

_____
Print Name:_____
Notary Public
My Commission Expires:_____
Commission Number:_____

Witnesses:

"**DEVELOPER**"

111 Pursuit LLC, a Florida limited liability company

_____
Print Name: _____

By: _____
Print Name: _____
Title: _____

_____
Print Name: _____

STATE OF FLORIDA

COUNTY OF _____

The foregoing instrument was acknowledged before me this ____day of _____, 2023, by _____, as _____ of 111 Pursuit LLC, a Florida limited liability company, on behalf of the company. He/she appeared by *(check one)* ☐ physical appearance or ☐ online notarization, and *(check one)* ☐ is personally known to me or ☐ has produced _____ as identification.

_____
Print Name:_____
Notary Public
My Commission Expires:_____
Commission Number:_____

[SIGNATURES CONTINUED ON FOLLOWING PAGE

CITY OF APOPKA

By: _____
Bryan Nelson, Mayor

ATTEST:

_____
Susan Bone, City Clerk

Approved as to Form:

_____
Cliff Shepard, City Attorney

STATE OF FLORIDA

COUNTY OF _____

The foregoing instrument was acknowledged before me this ____day of _____, 2023, by _____, as _____ of City of Apopka, Florida, a municipal corporation of the State of Florida, on behalf of the City of Apopka. He/she appeared by *(check one)* ☐ physical appearance or ☐ online notarization, and *(check one)* ☐ is personally known to me or ☐ has produced _____ as identification.

_____
Print Name:_____
Notary Public
My Commission Expires:_____
Commission Number:_____

EXHIBIT "A"
(Property)

LEGAL DESCRIPTION:

Parcel 1

Lot 4, Block H, LESS the South 150 feet of the East 200 feet, Map of Plymouth, according to the plat thereof as recorded in Plat Book B, Pages 17 and 18, Public Records of Orange County, Florida.

ALSO, LESS AND EXCEPT that portion of said Lot 4 lying within lands conveyed to Orange County by virtue of the Deed recorded February 7, 1930 in Deed Book 385, Page 509, Public Records of Orange County, Florida.

ALSO, LESS AND EXCEPT any portion of said Lot 4 lying within lands as set forth and contained in that certain Stipulated Order of Taking (Parcel 110) recorded April 2, 2009 in Official Records Book 9852, Page 7723, Public Records of Orange County, Florida.

Parcel 2

Lots 5 and 6, BLOCK H, Map of Plymouth, according to the plat thereof as recorded in Plat Book B, Pages 17 and 18, Public Records of Orange County, Florida, LESS AND EXCEPT the East 10 feet of said Lots 5 and 6 conveyed to Orange County by virtue of the Deed recorded February 7, 1930 in Deed Book 402, Page 90, Public Records of Orange County, Florida.

EXHIBIT "B"
(PD Plan)

PLYMOUTH SORRENTO APARTMENTS
PRE-APPLICATION COMMUNITY MEETING REPORT

APPIAN ENGINEERING

appianfl.com • 407.960.5868

2221 LEE ROAD, SUITE 27
WINTER PARK, FLORIDA 32789

City of Apopka
Planning Division
Attn: Mrs. Roxann Read
120 E. Main Street
Apopka, FL 32703
Submitted Via Email: JESANCHEZ@APOPKA.NET

RE: PLYMOUTH SORRENTO APARTMENTS – COMMUNITY MEETING REPORT

To Mrs. Read:

On January 17, 2023, a community meeting was held via Zoom to discuss a proposed Future Land Use and Zoning Amendment with the surrounding property owners. The proposed development is a 250-unit multifamily community, and would be located adjacent to S.R. 429 on the west side of Plymouth Sorrento Road just north of the intersection with State Road 441 in Apopka, Florida.

The following report is to serve as the last step in the pre-application process. Below is a list of items that this meeting report needs to address and/or identify according to the guidelines. Directly under each item, you will find a written response in **bold** that details how Appian Engineering, LLC has successfully satisfied each item.

What techniques did you use to notify and involve the public regarding your application?

- **All property owners within three hundred (300) feet of the site, as well as the entire Phase 1 of the Plymouth Landing subdivision were notified via certified USPS mail. Scanned certified mail receipts of the notified property owners are included as Appendix A in this report. The envelopes were mailed on December 22nd, 2022. Each envelope contained a letter explaining what was being proposed and provided the date, time and location for the meeting. In addition to the letter, a location map and aerial map of the site were also included. An example of the community meeting notification letter and associated exhibits is included as Appendix B of this report. Both the letter and aerial map were also posted on the property 14 days prior to the community meeting.**
- **The sign-in sheet for the meeting is included on Page 5 of this report. It includes Luke Classon, P.E., from Appian Engineering, Sofia Sierra-Gil, P.E., from Appian Engineering, Andrew Francis, E.I., from Appian Engineering, Erik Halverson from 111 Residential, Jonathan Huels from Lowndes Law, Mrs. Kelley Butcher, who owns the unincorporated property just south of Plymouth Landing, and several Plymouth Landing residents.**

What concerns, issues and problems did you hear during the process?

- **Residents brought up concerns as it relates to traffic, especially at the intersection of Plymouth Sorrento Road and SR 441, as they believe the development of the property will cause challenges related to traffic to become more common.**

- **Residents of the Plymouth Landing subdivision stated that flooding tends to occur during large storm events, and raised the concern that the development would cause this issue to become worse.**
- **Several residents asked to be notified for future public hearings regarding the development.**
- **One resident raised the concern that wildlife living in the wooded areas of the property would be disrupted.**
- **One resident asked whether the Post Office would remain.**
- **A resident asked if a wall is proposed to buffer the development from Plymouth Sorrento Road.**
- **One resident was concerned that the house on the southern parcel may be a historical building and if so should not be demolished.**
- **A high school student noted that the school buses that serve the area are overcrowded, and was concerned that the additional students in the development would cause this issue to become worse.**
- **One resident asked whether the apartments would be gated and whether they would be luxury, high-rise, or affordable housing.**
- **Some residents raised concerns that the development will not match the "character of the surrounding area".**

How have you (or will you) address the concerns, issues and problems raised?

- **The developer will convey a 30-foot-wide piece of land along the eastern property boundary for use in the future widening of Plymouth Sorrento Road. The project would also improve the existing roadway to add left- and right-turn lanes into the development per coordination with the City of Apopka and Orange County. Lastly, a second access point for emergency use is proposed in the southwestern corner of the project, with direct access to and from SR 441.**
- **As required by SJRWMD and City of Apopka, the project would hold any stormwater runoff draining onsite in the pre-development condition in addition to any runoff generated in the proposed condition. This water would be collected and treated in the proposed stormwater pond as opposed to flowing offsite and possibly affecting adjacent properties.**
- **Residents were informed that, per City of Apopka Code, they will be notified of all public hearings related to the project if they received the initial notification for the community meeting.**
- **While wildlife disruption is inevitable with any construction project, the Developer will adhere to all local, state, and federal regulations to minimize the risk that any protected species are harmed.**
- **Subject property does not include the Post Office and will not be removing it.**
- **All buffers will adhere to City of Apopka regulations, and an ornamental fence will likely be constructed in the buffer abutting Plymouth Sorrento Road.**
- **The house on the southern parcel does not appear on the National Register of Historic Places and is not recognized as historically significant. City of Apopka building staff confirmed that the building is not recognized as historically significant in the City's records either.**

- **The developer will go through OCPS' capacity and concurrency processes, as required for any new residential community, and will enter into a mitigation agreement with OCPS if necessary.**
- **The development will be a gated luxury apartment complex with four-story buildings and a central courtyard with amenities.**
- **The developer will work with the City of Apopka to ensure the architect selected is consistent with nearby developments and City requirements.**

If there are concerns, issues and problems you aren't able to address, tell us why.

- **All concerns, issues, and problems were answered.**

If the City has any questions, please do not hesitate to contact or office via phone at 407-960-5868 or via email at LClasson@appianfl.com.

VERY TRULY YOURS,
APPIAN ENGINEERING, LLC



LUKE CLASSON, P.E.
PRINCIPAL / SR. PROJECT MANAGER

SIGN-IN SHEET

Location: Online Via Zoom
Time: 6:00 PM - 7:00PM

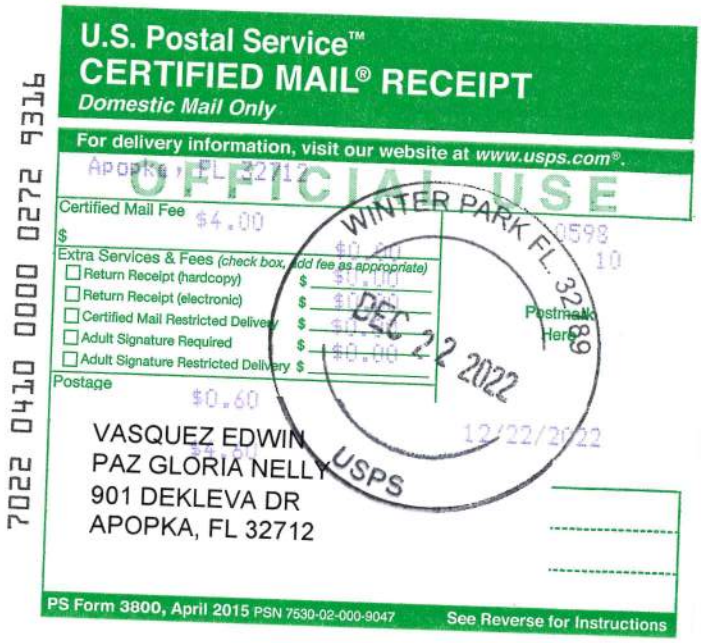
Date: January 17, 2023

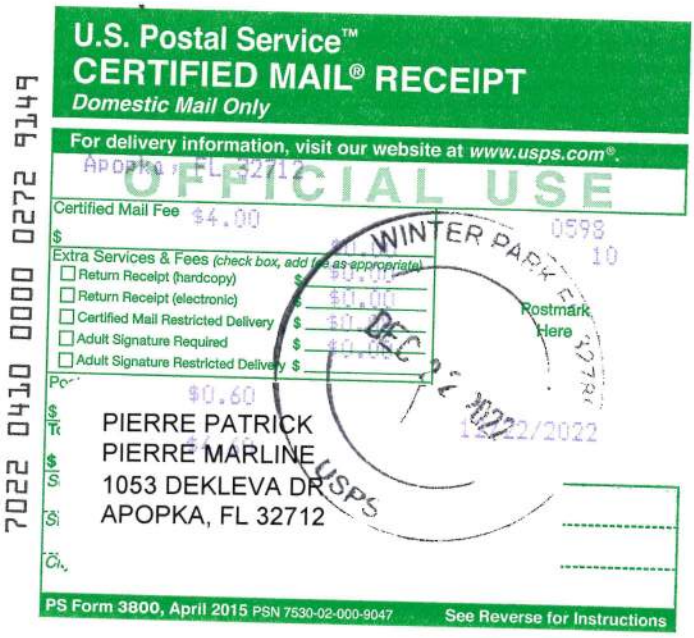
Plymouth Sorrento Apartments - CAPP Meeting

Attendees	Affiliation
Luke Classon, P.E.	Principal / Project Manager - Appian
Sofia Sierra-Gil, P.E.	Project Manager - Appian
Andrew Francis, E.I.	Project Engineer - Appian
Erik Halverson	Developer - 111 Residential
Jonathan Huels	Land Use Attorney – Lowndes Law
Kelly Butcher	Notified Property Owner
Via (last name not stated)	Notified Property Owner
Dwayne Jones	Notified Property Owner
Tabitha Jones	Notified Property Owner
Steve Joseph	Notified Property Owner
Albert (last name not stated)	Notified Property Owner
Alma Mannion	Notified Property Owner
Patricia Cannon	Notified Property Owner
Lawrence H. (last name not stated)	Notified Property Owner
Morine Guersaint	Notified Property Owner

APPENDIX A – NOTIFIED PROPERTY OWNERS

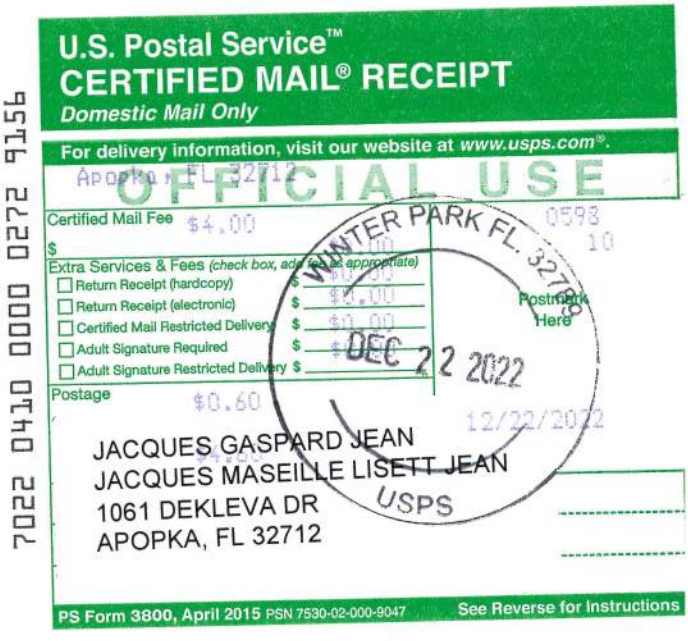

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Adult Signature Restricted Delivery
Postage $0.60
WINTER PARK FL 32789
DEC 22 2022
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12/22/2022
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WASHINGTON ALANA N
WASHINGTON JAMES N JR
1126 DEKLEVA DR
APOPKA, FL 32712
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Adult Signature Restricted Delivery
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PAZ GLORIA NELLY
901 DEKLEVA DR
APOPKA, FL 32712
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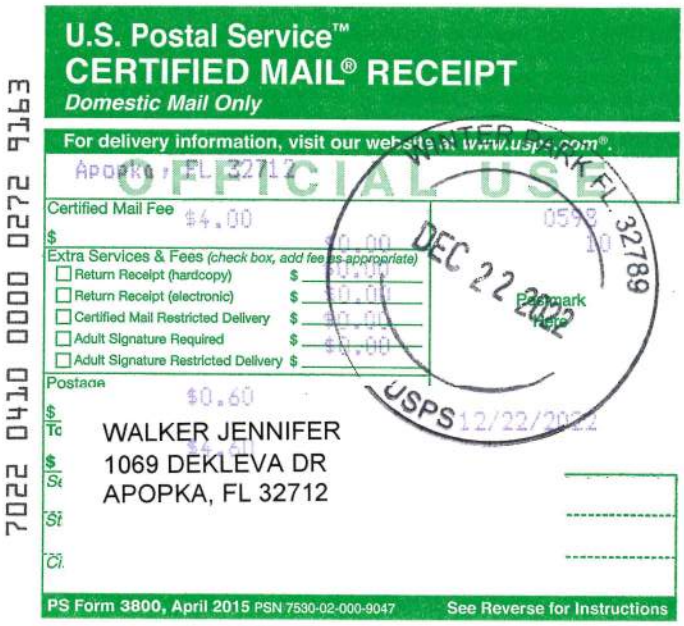

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PIERRE MARLINE
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APOPKA, FL 32712
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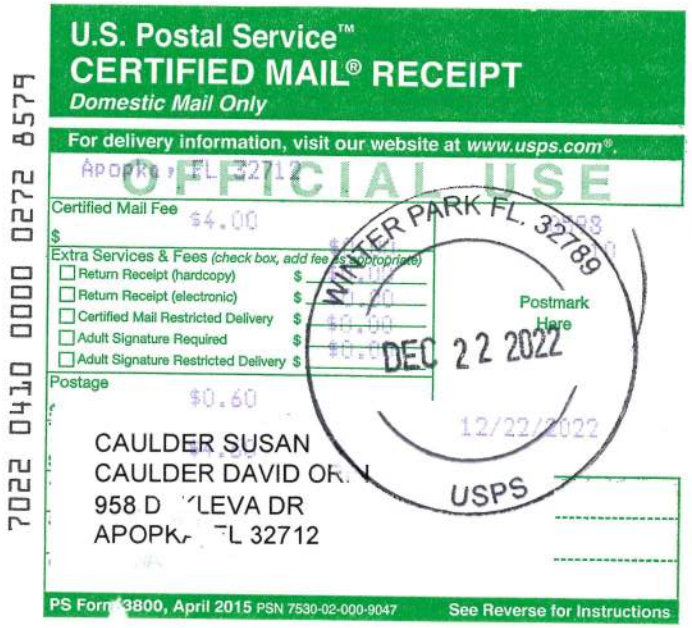

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Adult Signature Restricted Delivery
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DEC 22 2022
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12/22/2022
USPS
FREO PROGRESS LLC
PO BOX 4090
SCOTTSDALE, AZ 85261
PS Form 3800, April 2015 PSN 7530-02-000-9047
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12/22/2022
USPS
JACQUES GASPARD JEAN
JACQUES MASEILLE LISETT JEAN
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APOPKA, FL 32712
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Return Receipt (electronic)
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Adult Signature Required
Adult Signature Restricted Delivery
Postage $0.60
PORTELLI ALFRED J III
URRACO ACOSTA KELIN D
950 DEKLEVA DR
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Adult Signature Restricted Delivery
Postage $0.60
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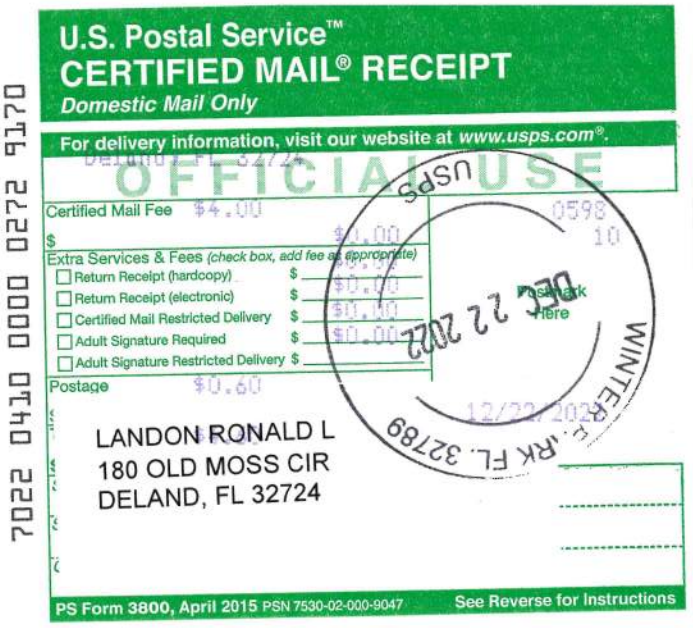

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Adult Signature Restricted Delivery
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SAPONE BRIAN M LIFE ESTATE
SAPONE CYNTHIA L LIFE ESTATE
810 DEKLEVA DR
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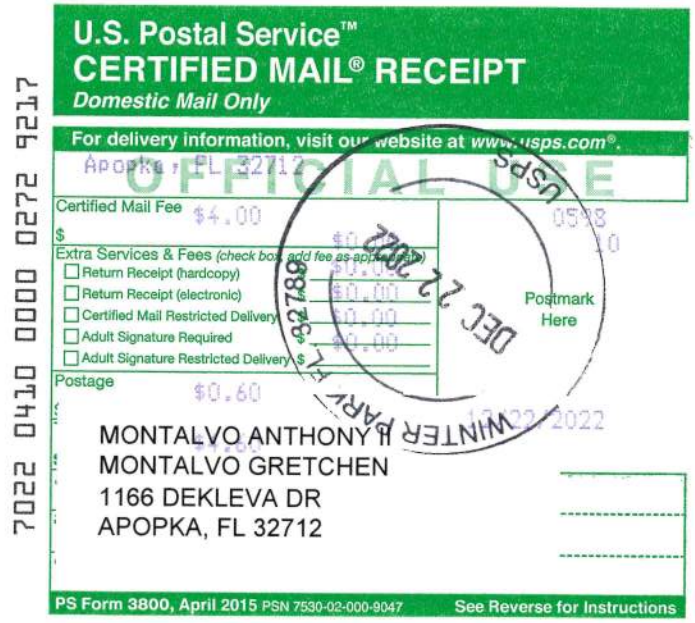

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CAULDER DAVID
958 D LEVA DR
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DIAZ JOANN V
818 DEKLEVA DR
APOPKA, FL 32712
WINTER PARK FL 32789
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GRANT GAUNTLET
COBURN KALICE
1150 DEKLEVA DR
APOPKA, FL 32712
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LANDON RONALD L
180 OLD MOSS CIR
DELAND, FL 32724
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WINTER PARK FL 32789
MONTALVO ANTHONY II
MONTALVO GRETCHEN
1166 DEKLEVA DR
APOPKA, FL 32712
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WINTER PARK FL 32789
SWH 2017-1 BORROWER LP
8665 E HARTFORD DR STE 200
SCOTTSDALE, AZ 85255
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WINTER PARK FL 32789
USPS
SIMMONS DEBORA
974 DEKLEVA DR
APOPKA, FL 32712
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Adult Signature Restricted Delivery
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WINTER PARK FL 32789
TURNBULL-JOSEPH STEPHANIE
966 DEKLEVA DR
APOPKA, FL 32712
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ROBERT M PENDERGRASS
857 DEKLEVA DR
APOPKA, FL 32712

WINTER PARK FL 32789
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HOWELL BARBARA
HARLEY BRENJI ANTWON
866 DEKLEVA DR
APOPKA, FL 32712

WINTER PARK FL 32789
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AMARO ROSA NICOLAS
DIAZ LUZ
842 DEKLEVA DR
APOPKA, FL 32712

DEC 22 2022
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HAWKINS GEORGE A
HAWKINS PATRICE A
849 DEKLEVA DR
APOPKA, FL 32712

WINTER PARK FL 32789
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☐ Adult Signature Restricted Delivery $
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GUERSAINT MORINE
JOSEPH STEVE
1038 DEKLEVA DR
APOPKA, FL 32712

WINTER PARK FL 32789
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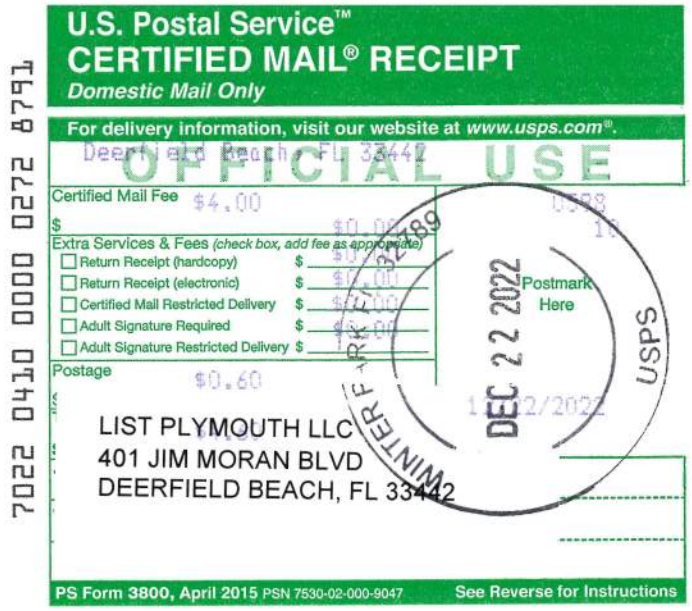
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Extra Services & Fees (check box, add fee as appropriate)
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SANTIAGO CARLOS
HC 3 BOX 37129
SAN SEBASTIAN, PR 00685

USPS
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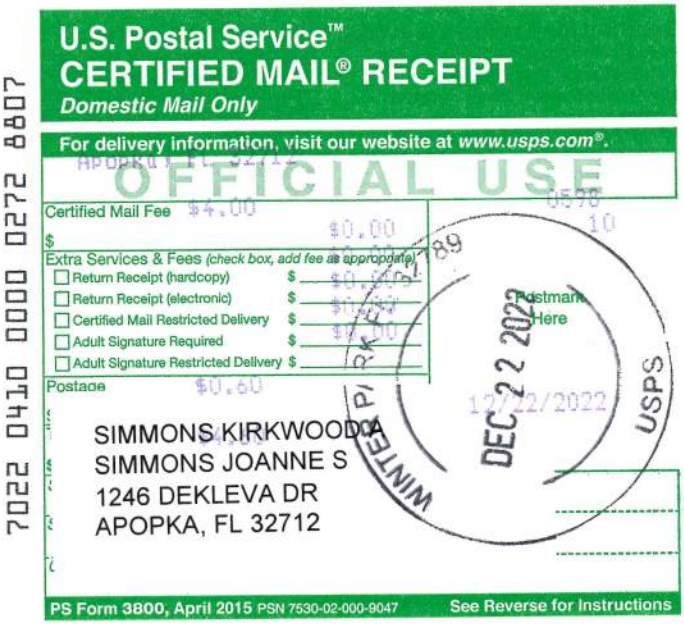
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Postage $0.60
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DEC 22 2022
WINTER PARK FL 32789
USPS
LIST PLYMOUTH LLC
401 JIM MORAN BLVD
DEERFIELD BEACH, FL 33442
PS Form 3800, April 2015 PSN 7530-02-000-9047
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7022 0410 0000 0272 8791

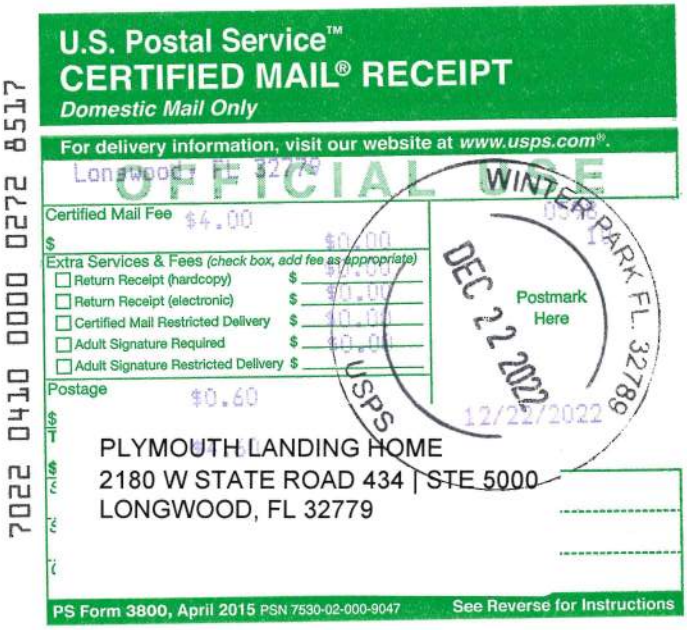

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Adult Signature Restricted Delivery
Postage $0.60
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DEC 22 2022
WINTER PARK FL 32789
USPS
PANDA ELIZABETH M
1046 DEKLEVA DR
APOPKA, FL 32712
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WINTER PARK FL 32789
USPS
CENTRAL FLORIDA EXPRESSWAY
4974 ORL TOWER RD
ORLANDO, FL 32807
PS Form 3800, April 2015 PSN 7530-02-000-9047
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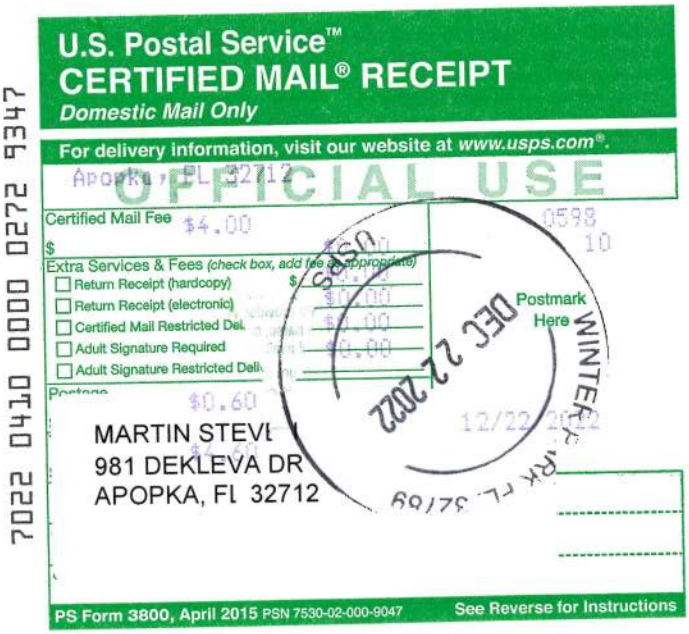

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USPS
SIMMONS KIRKWOOD A
SIMMONS JOANNE S
1246 DEKLEVA DR
APOPKA, FL 32712
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USPS
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75 COLUMBIA AVE
CEDARHURST, NY 11516
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2095 VISTA ALCEDO
CAMARILLO, CA 93012
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2180 W STATE ROAD 434 | STE 5000
LONGWOOD, FL 32779
WINTER PARK FL 32789
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COSMARK CHARLES P
COSMARK JENNEIFER E
918 DEKLEVA DR
APOPKA, FL 32712
WINTER PARK FL 32789
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Adult Signature Restricted Deli
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MARTIN STEVI
981 DEKLEVA DR
APOPKA, FL 32712
DEC 22 2022
Postmark Here
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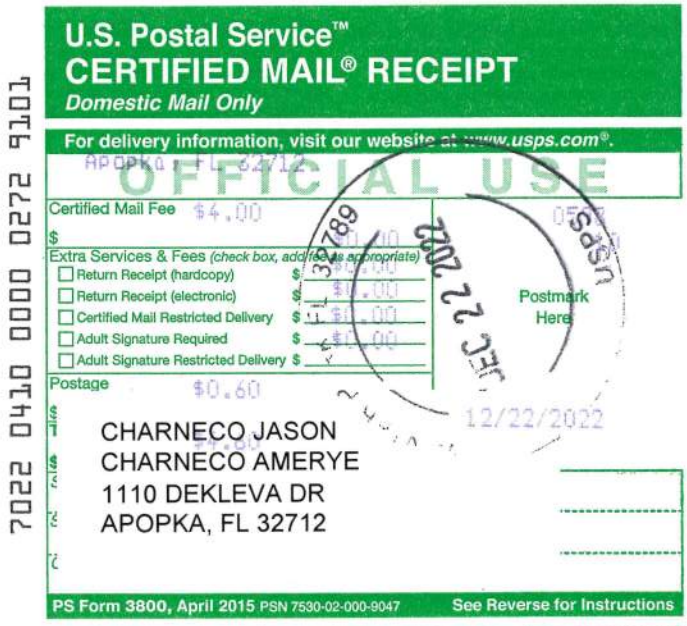

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HAYS LAWRENCE T
HAYS LAQUITA J
934 DEKLEVA DR
APOPKA, FL 32712
WINTER PARK FL 32789
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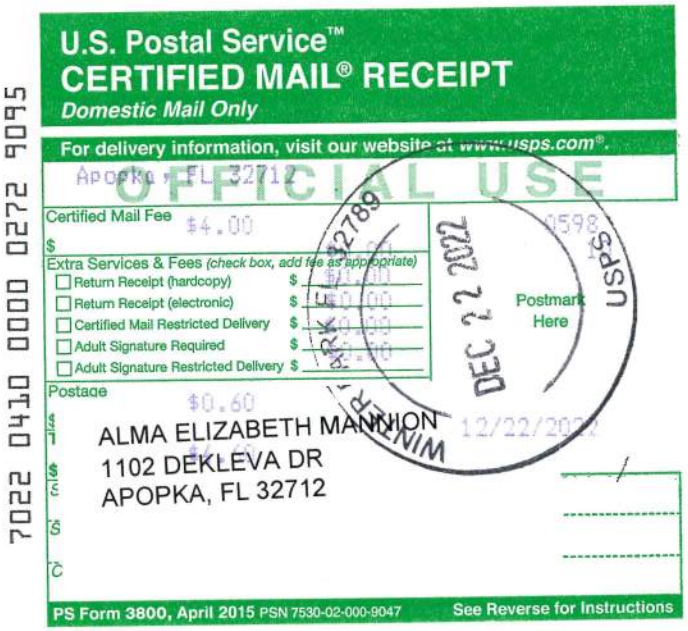

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TANNER FAMILY TRUST
C/O SCOTT L TANNER TRUSTEE
WINTER GARDEN, FL 34787
DEC 22 2022
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POTOPAS TASHA J
1021 DEKLEVA DR
APOPKA, FL 32712
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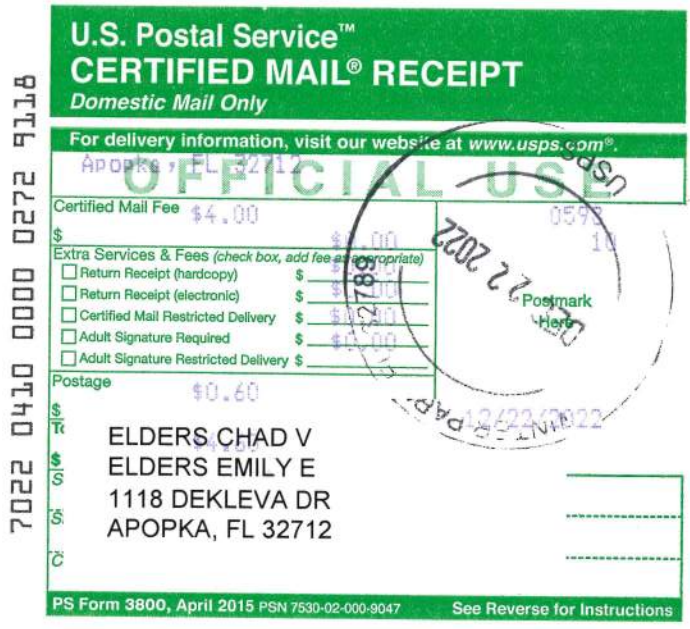

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USPS
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BAZELAIS MARIE YOLANDE
MICHEL ASHLEY NINA
1078 DEKLEVA DR
APOPKA, FL 32712
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WINTER PARK FL 32789
SILVA EDSON
MCMILLAN JAMEELAH
1070 DEKLEVA DR
APOPKA, FL 32712
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USPS
CHARNECO JASON
CHARNECO AMERYE
1110 DEKLEVA DR
APOPKA, FL 32712
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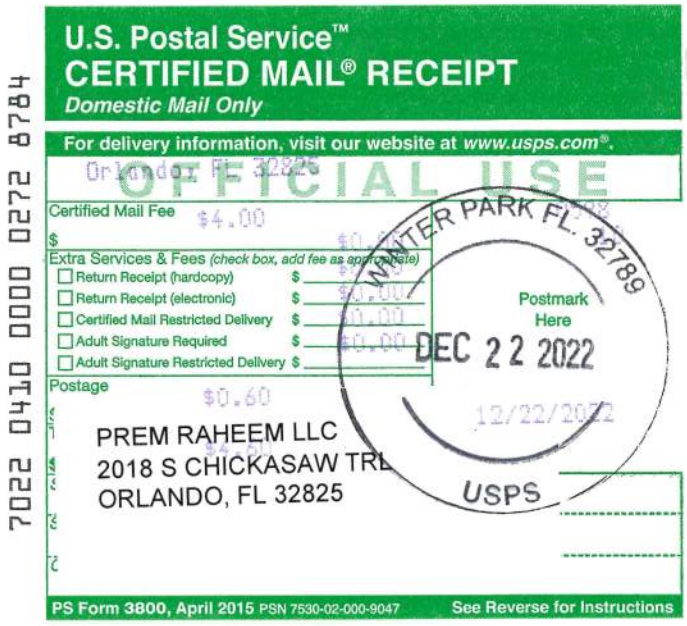

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USPS
WINTER PARK FL 32789
ALMA ELIZABETH MANNION
1102 DEKLEVA DR
APOPKA, FL 32712
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Adult Signature Restricted Delivery
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MAC MEDIA OUTDOOR LLC
1811 OAKBROOK DR
LONGWOOD, FL 32779
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Postage $0.60
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USPS
ELDERS CHAD V
ELDERS EMILY E
1118 DEKLEVA DR
APOPKA, FL 32712
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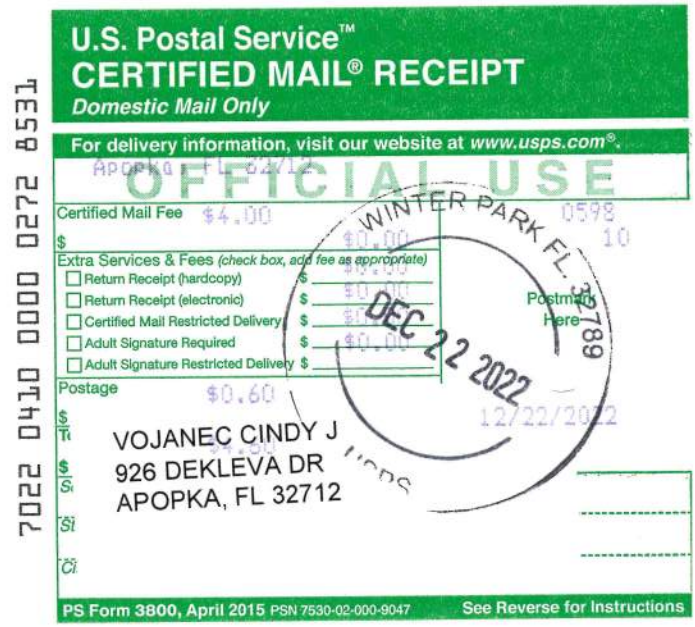

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413 BREEZE PT
HERMITAGE, TN 37076
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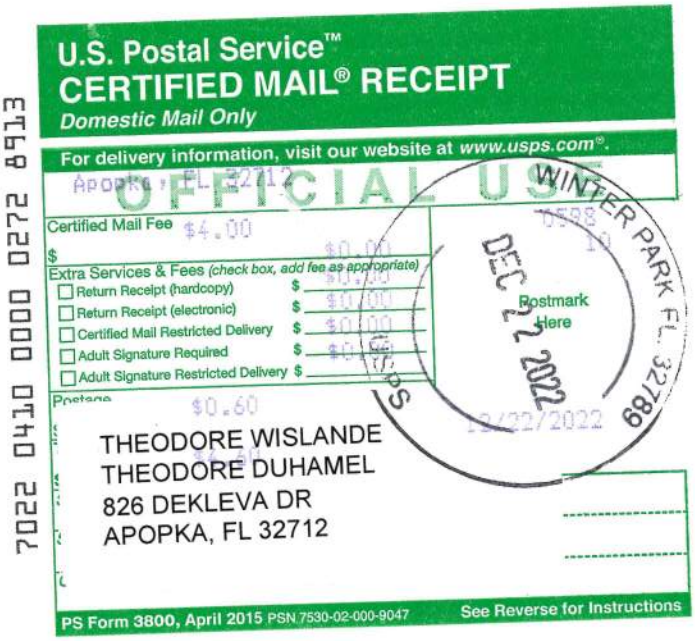

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2018 S CHICKASAW TRL
ORLANDO, FL 32825
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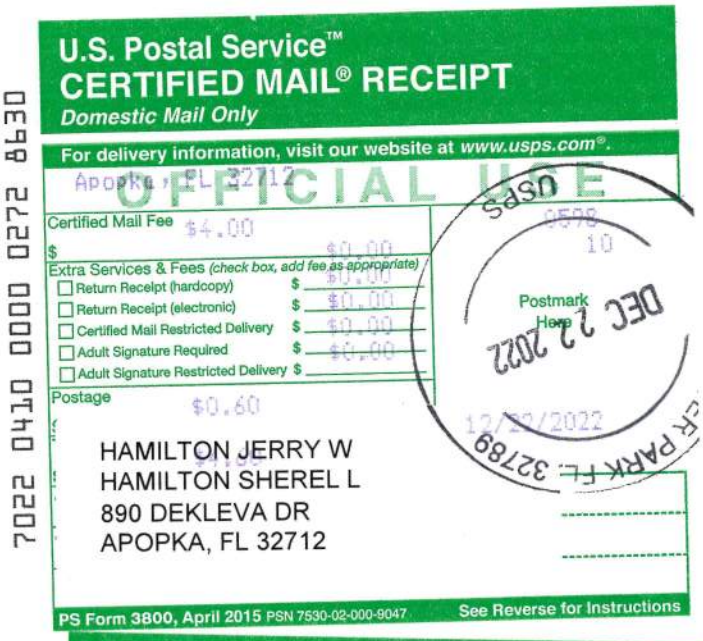

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VOJANEC CINDY J
926 DEKLEVA DR
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5001 PLAZA ON THE LK STE 200
AUSTIN, TX 78746
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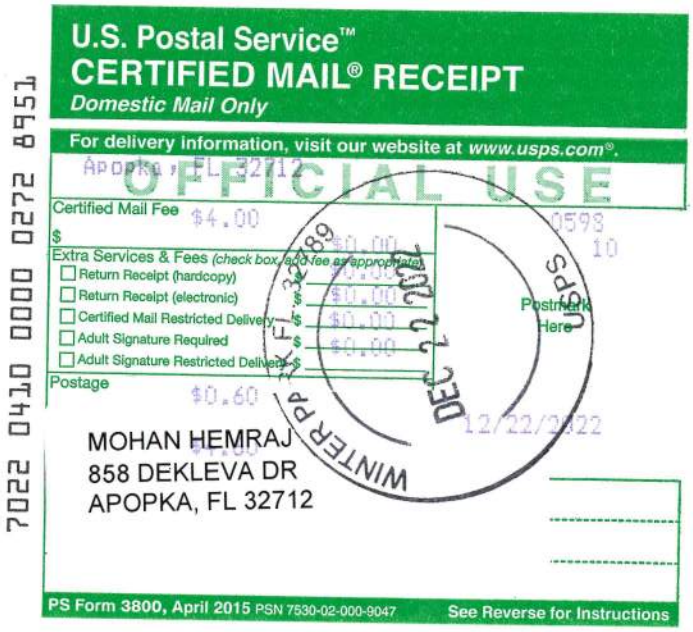

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THEODORE DUHAMEL
826 DEKLEVA DR
APOPKA, FL 32712
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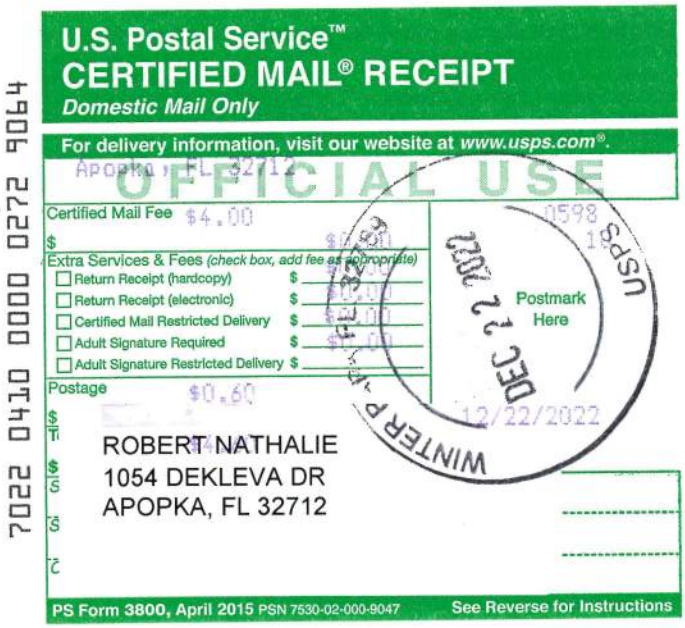

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HAMILTON SHEREL L
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GRANT MAEREEN
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PAZ GLORIA NELLY
901 DEKLEVA DR
APOPKA, FL 32712
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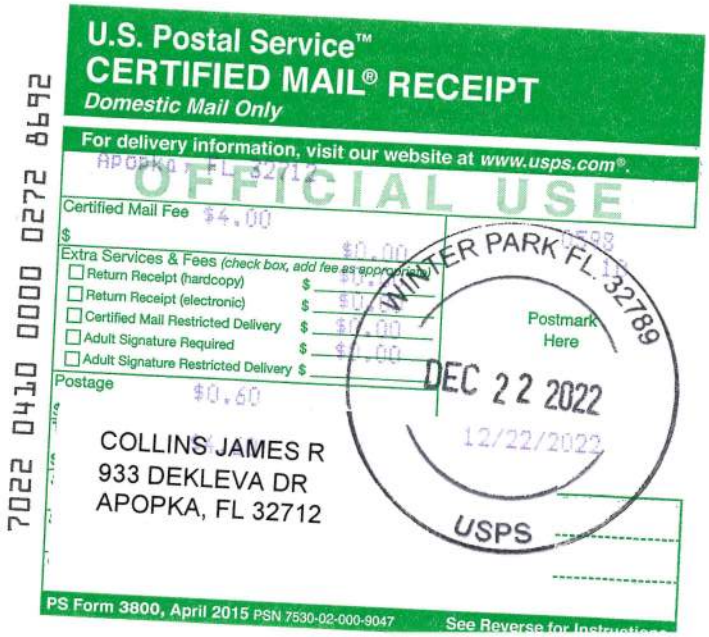

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1054 DEKLEVA DR
APOPKA, FL 32712
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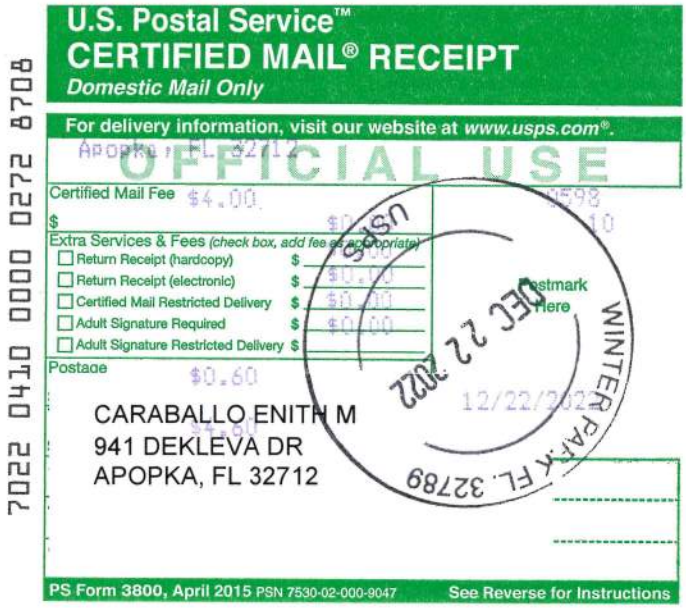

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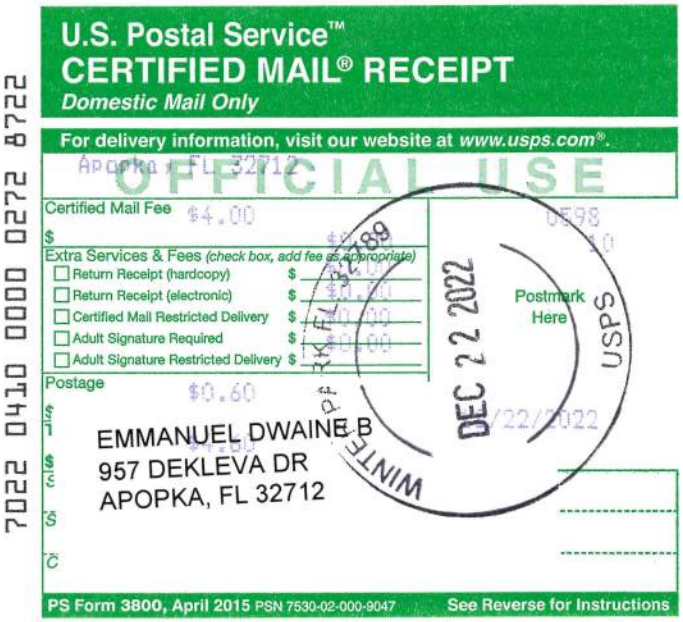

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STANKLEWICZ KATHLEEN A
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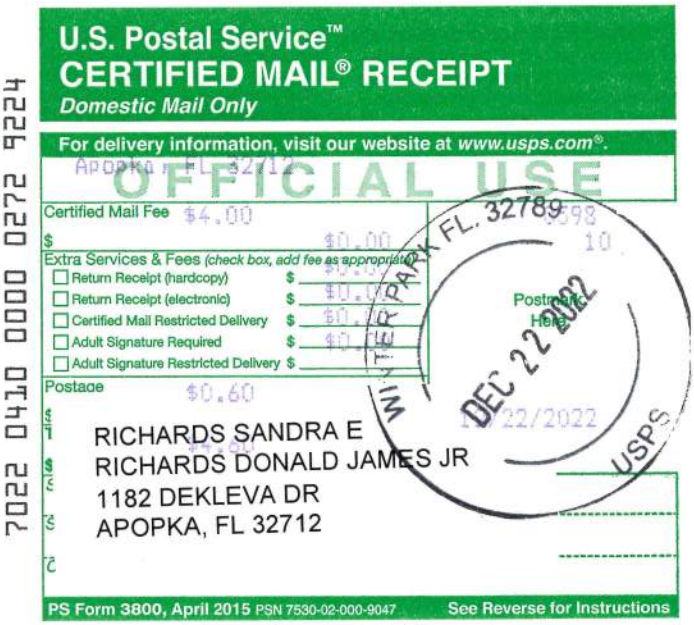

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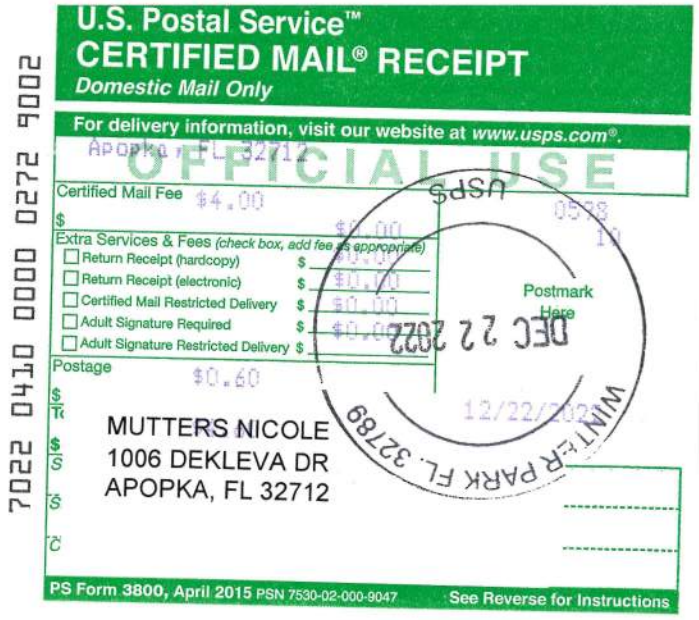

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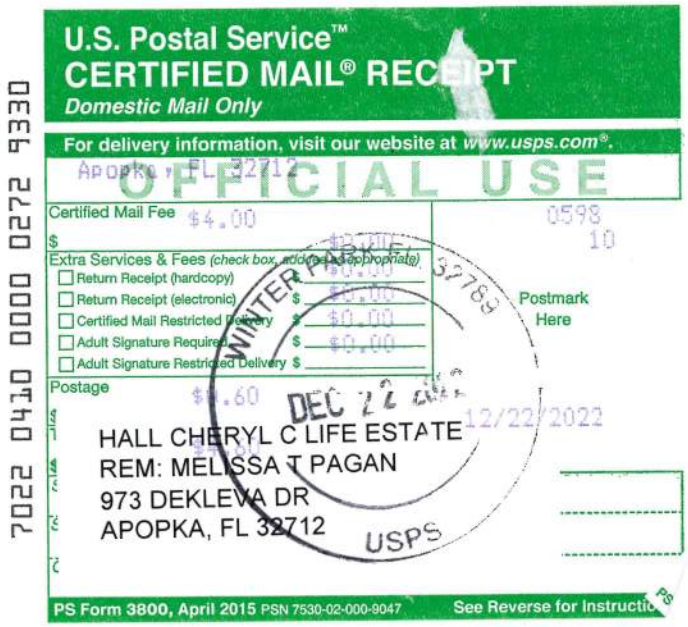

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RICHARDS SANDRA E
RICHARDS DONALD JAMES JR
1182 DEKLEVA DR
APOPKA, FL 32712
Postmark Here
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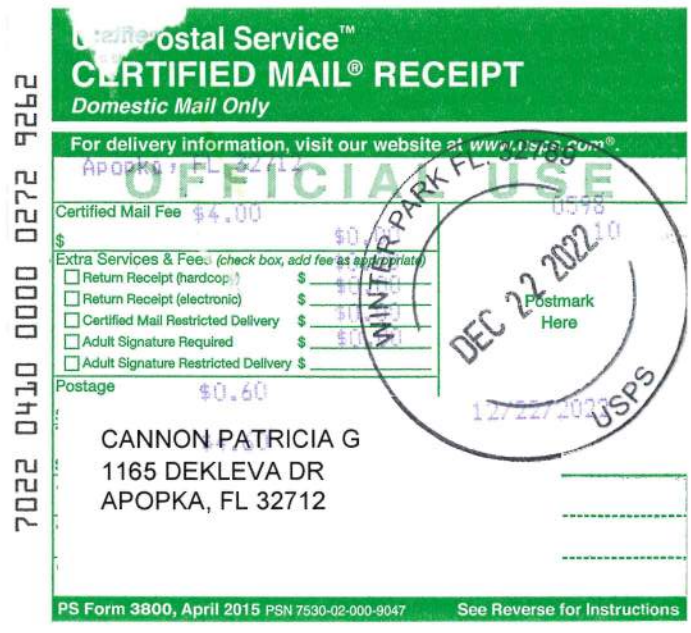

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JONES DUANE M
JONES TABBITHA A
1014 DEKLEVA DR
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1006 DEKLEVA DR
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HALL CHERYL C LIFE ESTATE
REM: MELISSA T PAGAN
973 DEKLEVA DR
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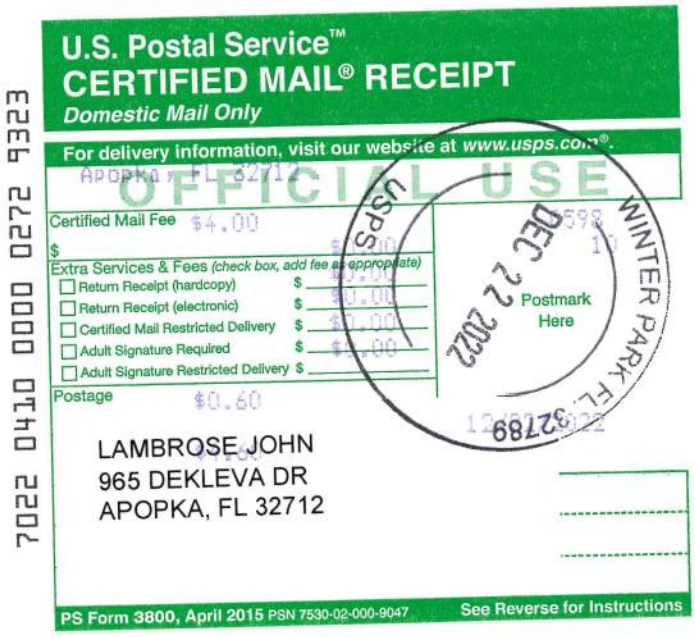

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PI CE TIMOTHY MARTIN
115. EKLEVA DR
APOPKA, FL 32712
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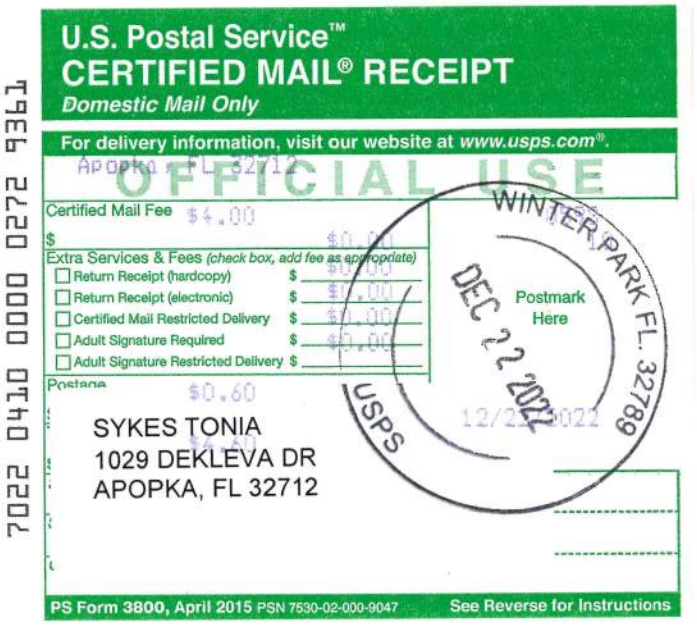

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TNL GROUP ONE INC
477 TON AVE
ORLA 819
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CANNON PATRICIA G
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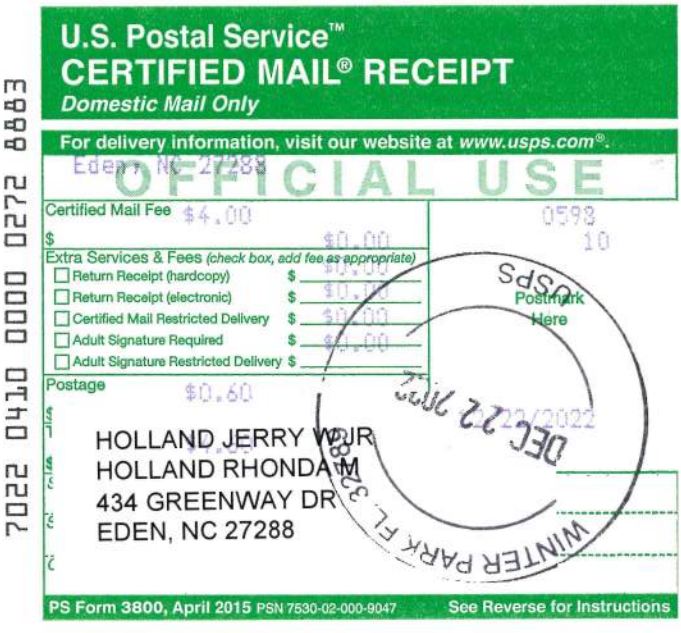

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GEORGES DORIS NEPHTALIE
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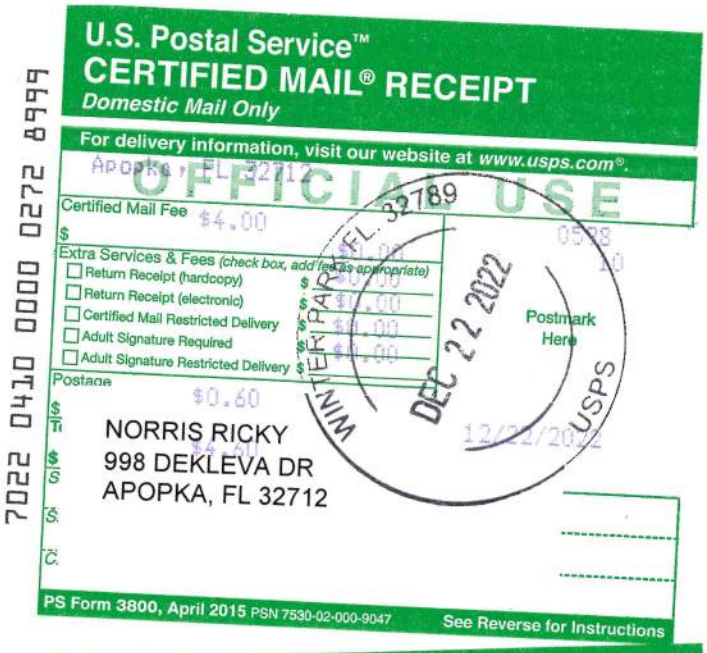

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FLEURANT RICHARD J
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APOPKA, FL 32712
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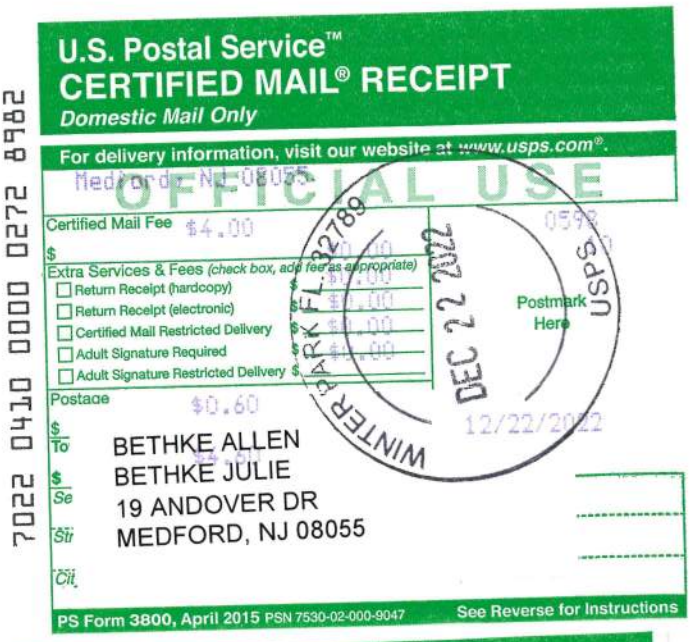

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APOPKA, FL 32712
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USPS
R P WELKER PLANTS INC
PO BOX 579
PLYMOUTH, FL 32768
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USPS
HOLLAND JERRY WAYNE
HOLLAND RHONDA M
434 GREENWAY DR
EDEN, NC 27288
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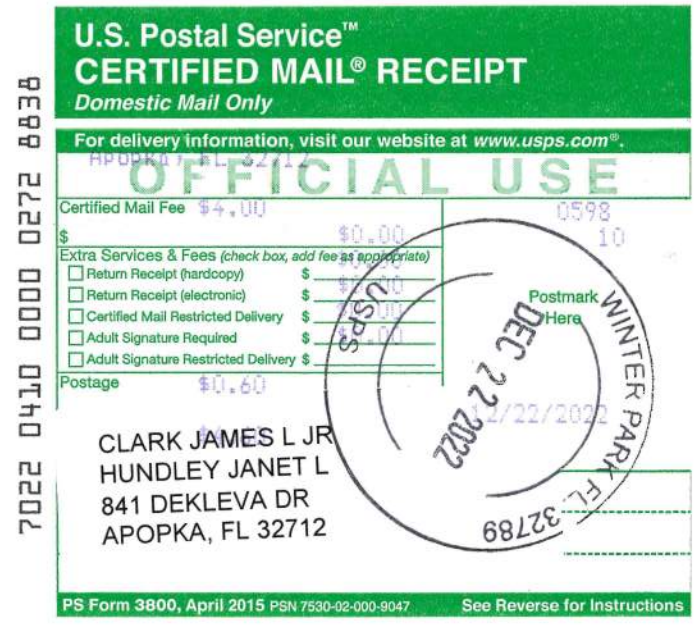

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NORRIS RICKY
998 DEKLEVA DR
APOPKA, FL 32712
7022 0410 0000 0272 8999
WINTER PARK FL 32789
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Adult Signature Restricted Delivery
Postage $0.60
BETHKE ALLEN
BETHKE JULIE
19 ANDOVER DR
MEDFORD, NJ 08055
7022 0410 0000 0272 8982
WINTER PARK FL 32789
DEC 22 2022
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MONTALVO BETEL A
BELTRE WILJON W
1030 DEKLEVA DR
APOPKA, FL 32712
7022 0410 0000 0272 9033
WINTER PARK FL 32789
DEC 22 2022
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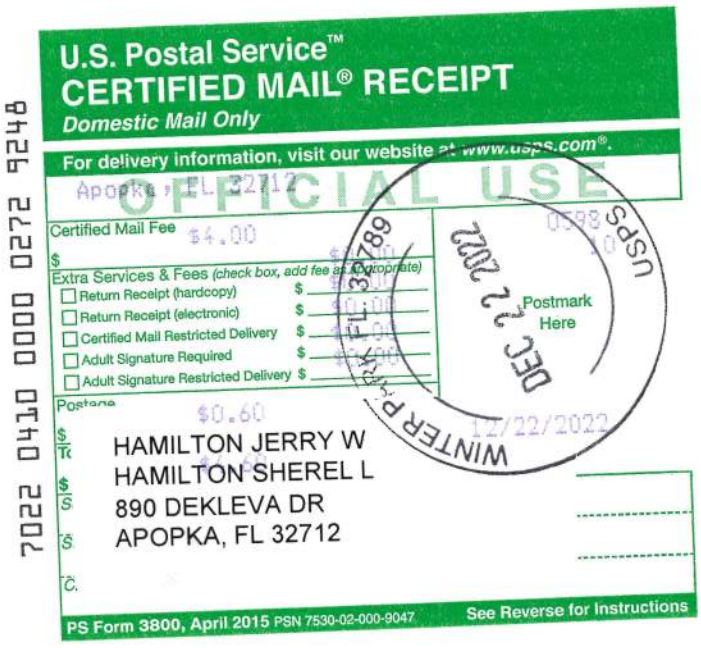

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TAYLOR KEITH A
TAYLOR JENNIFER R
1022 DEKLEVA DR
APOPKA, FL 32712
7022 0410 0000 0272 9026
WINTER PARK FL 32789
DEC 22 2022
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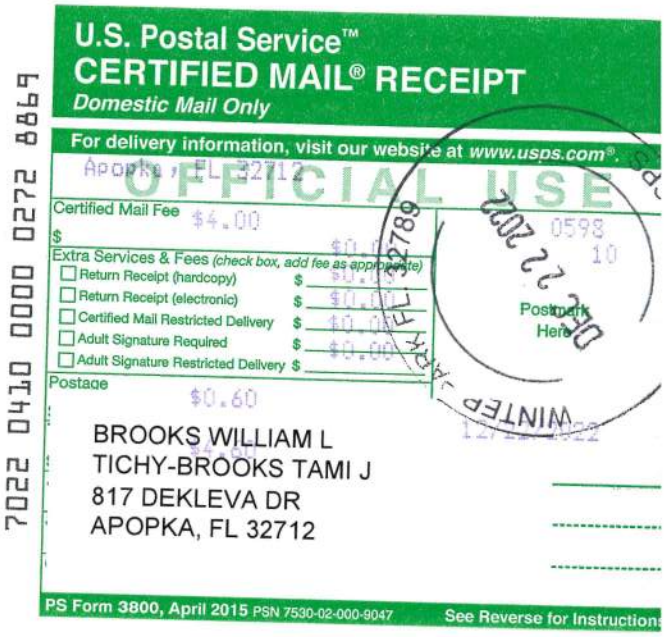

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JOHNSON CATHY
833 DEKLEVA DR
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USPS
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CLARK JAMES L JR
HUNDLEY JANET L
841 DEKLEVA DR
APOPKA, FL 32712
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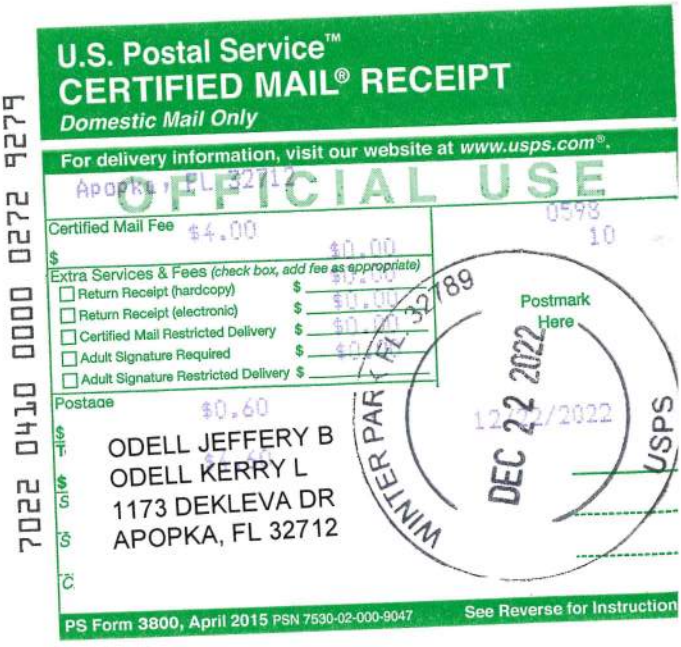

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APOPKA, FL 32712
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WINTER PARK FL 32789
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BEARD JAYNE E
825 DEKLEVA DR
APOPKA, FL 32712
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DEC 22 2022
WINTER PARK FL 32789
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HAMILTON JERRY W
HAMILTON SHEREL L
890 DEKLEVA DR
APOPKA, FL 32712
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WINTER PARK FL 32789
BROOKS WILLIAM L
TICHY-BROOKS TAMI J
817 DEKLEVA DR
APOPKA, FL 32712
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12/22/2022
PHU PAUL
7423 LAKE ANDREA CIR
MOUNT DORA, FL 32757
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ODELL JEFFERY B
ODELL KERRY L
1173 DEKLEVA DR
APOPKA, FL 32712
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APPENDIX B – PRE-APPLICATION COMMUNITY MEETING NOTIFICATION LETTER

COMMUNITY MEETING NOTIFICATION LETTER

RE: PLYMOUTH SORRENTO APARTMENTS – COMMUNITY AWARENESS AND PARTICIPATION MEETING

Dear Property Owner:

Appian Engineering, LLC, would like to invite you to attend a virtual Community Awareness and Participation (CAP) meeting to discuss the development of the proposed apartment complex. The planned apartment complex will be located near the intersection of US 441 and Plymouth Sorrento Road, just east of SR 429. The meeting will be held via Zoom on the following date and time:

Community Awareness and Participation Meeting
January 17th, 2023 at 6:00 PM – 7:00 PM

Join Zoom Meeting
https://us06web.zoom.us/j/81510797690
Meeting ID: 815 1079 7690

The main entrance to the proposed apartment complex will connect directly to Plymouth Sorrento Road. A gated emergency access is proposed near the southwest corner of the complex off of an existing dirt road that connects to US 441. The proposed apartment complex will be comprised of a total of 250 units with associated stormwater pond, open space areas, and parking (including garages).

I would like to address any comments or concerns you may have regarding this project. If you are unable to attend the virtual meeting, please feel free to email me your comments or mail them to our office at 2221 Lee Road Suite 27, Winter Park, FL 32789.

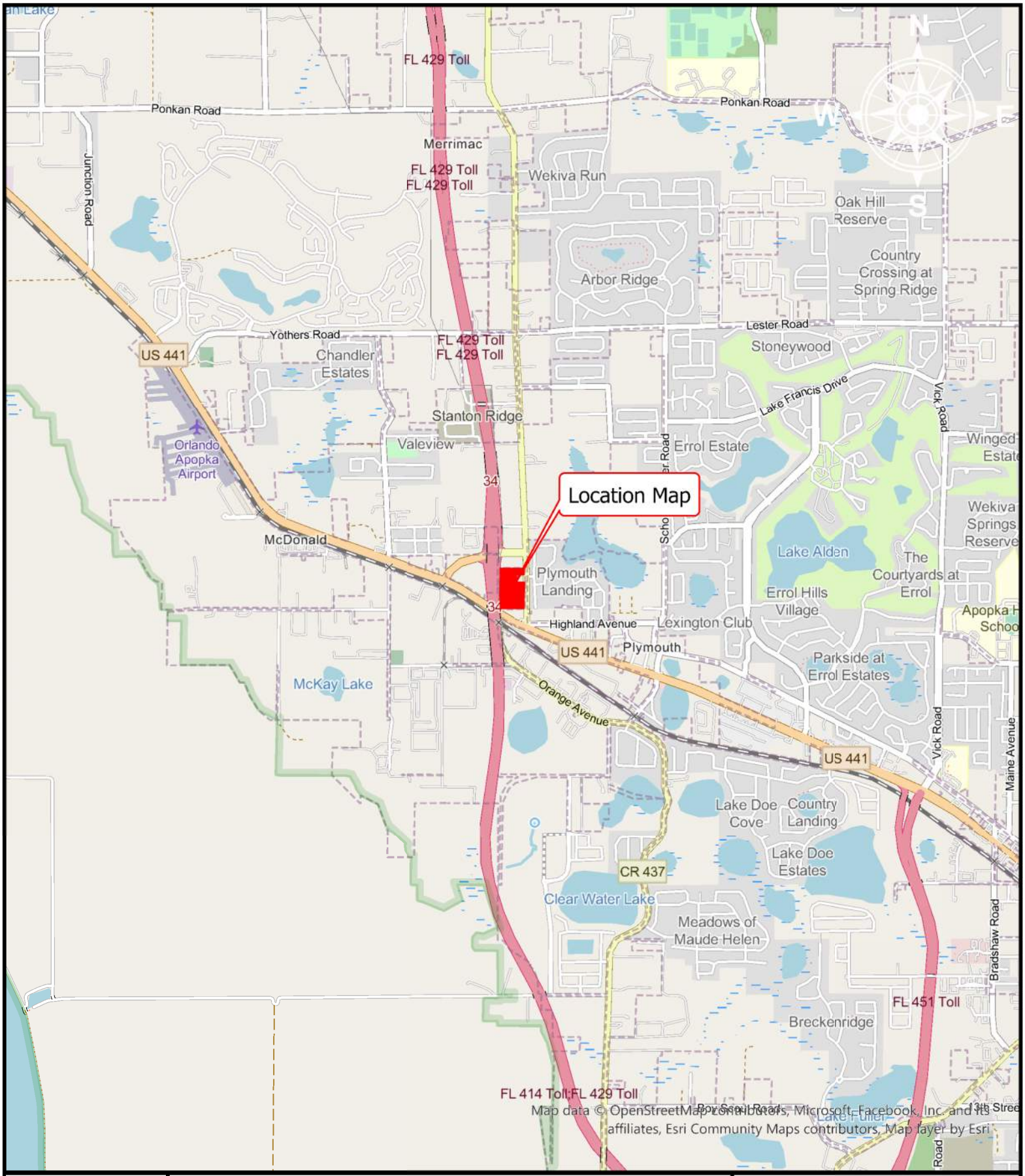
Please call me at (407) 960-5868 or email me at lclasson@appianfl.com if you have any questions regarding the proposed development prior to the meeting.

I look forward to hearing from you or virtually meeting you to discuss this development.

VERY TRULY YOURS,
APPIAN ENGINEERING, LLC

LUKE M. CLASSON, P.E.
PRINCIPAL/SR PROJECT MANAGER

Attachments: Location Map and Aerial Map



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2221 Lee Road, Suite 27, Winter Park, Florida 32789

Location Map

Apopka, Florida

OER-001 | 1" = 3,000 ft

Date: 9/20/2022

Path: P:_PROJECT DRAWINGS\OER-001 Plymouth Sorrento Road Apartments\Drawings\GIS\LOCATION MAP.aprx



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2221 Lee Road, Suite 27, Winter Park, Florida 32789

Aerial Map

Apopka, Florida

OER-001 | 1" = 200 ft

Date: 9/30/2022

Path: P:_PROJECT DRAWINGS\OER-001 Plymouth Sorrento Road Apartments\Drawings\GIS\AERIAL MAP.aprx

APPENDIX C – EMAILS FROM RESIDENTS PRIOR TO MEETING

Andrew Francis

Subject: FW: OER 001 CAP Meeting Jan.17,2023

From: Kelley Butcher <butcherwife@hotmail.com>
Sent: Saturday, December 24, 2022 4:18 PM
To: Luke M. Classon <lclasson@appianfl.com>
Subject: CAP Meeting Jan.17,2023

Mr. Classon,

My name is Kelley Butcher and I live on Plymouth Sorrento Road I would be directly affected in a negative way should the proposed 250 unit apartment complex with a gate and proposed entrance to the complex directly connected to Plymouth Sorrento Road.

This is a narrow two-lane road and is severely over congested already .There is future growth and development further down on Plymouth Sorento Road that will also contribute to the extra traffic. The infer structure for this area will not sustain your proposed development.

I personally have been hit in my vehicle out of in front of my house setting still trying to turn into my driveway because of the traffic on this road and how dangerous it is.

To add your complex or your proposed complex to this road will increase the loss of life property and accident ratio to a higher level than it already is. It is currently standing at way too dangerous already.

I do not want to see the complex when I come out of my door. I do not want the noise from the construction the extra traffic This will be a major inconvenience to me and my family.

I simply do not agree with the proposed idea of a 250-unit complex in front of my house.

I'm a 12-year resident and homeowner I do have a voice and I do have a say so and I do not approve of your proposed plans.

Thank you
Kelley Butcher
407-717-7100

P.S. If you would like to talk about a sizable compensation package for my inconvenience, I will be open to listen to your suggestions. Please note that I have two special needs children and the noise from the construction will severely affect them daily.

Andrew Francis

Subject: FW: OER 001 FW: Plymouth Sorrento Apartments Notification Letter

From: jwh647@cfl.rr.com <jwh647@cfl.rr.com>
Sent: Monday, December 26, 2022 8:51 AM
To: Luke M. Classon <lclasson@appianfl.com>
Subject: Plymouth Sorrento Apartments Notification Letter

From: Jerry and Sherel Hamilton 890 Dekleva Drive Apopka FL 32712

Please consider the following when building the Plymouth Sorrento Apartments.

1. Add a turning lane from SR 441 to the 429 Connector Road. This would reduce backups from people turning into the apartments and the Plymouth Post Office.

2. Replace the metal fence with a solid wall on the East Side of Plymouth Sorrento Road and the houses of Plymouth Landing. This was done North of Blaisdell when the 429 Connector Road was added. This would help reduce some of the noise from the traffic on Plymouth Sorrento Road and provide more privacy for the Plymouth Landing homes.

LEGAL DESCRIPTION:

Parcel 1

Lot 4, Block H, LESS the South 150 feet of the East 200 feet, Map of Plymouth, according to the plat thereof as recorded in Plat Book B, Pages 17 and 18, Public Records of Orange County, Florida.

ALSO, LESS AND EXCEPT that portion of said Lot 4 lying within lands conveyed to Orange County by virtue of the Deed recorded February 7, 1930 in Deed Book 385, Page 509, Public Records of Orange County, Florida.

ALSO, LESS AND EXCEPT any portion of said Lot 4 lying within lands as set forth and contained in that certain Stipulated Order of Taking (Parcel 110) recorded April 2, 2009 in Official Records Book 9852, Page 7723, Public Records of Orange County, Florida.

Parcel 2

Lots 5 and 6, BLOCK H, Map of Plymouth, according to the plat thereof as recorded in Plat Book B, Pages 17 and 18, Public Records of Orange County, Florida, LESS AND EXCEPT the East 10 feet of said Lots 5 and 6 conveyed to Orange County by virtue of the Deed recorded February 7, 1930 in Deed Book 402, Page 90, Public Records of Orange County, Florida.

SURVEYOR'S NOTES:

1. BEARINGS SHOWN HEREON ARE ASSUMED AND BASED ON THE WEST LINE OF SECTION 6, TOWNSHIP 21 SOUTH, RANGE 28 EAST. AS HAVING AN ASSUMED BEARING OF S00°09'29"W.
2. THERE MAY BE EASEMENTS AND RESTRICTIONS OF RECORD AND/OR PRIVATE AGREEMENTS NOT FURNISHED TO THIS SURVEYOR OR SHOWN ON THIS BOUNDARY SURVEY THAT MAY AFFECT PROPERTY RIGHTS AND/OR LAND USE RIGHTS OF THE SUBJECT PROPERTY.
3. ACCURACY OF THE SURVEY DATA SHOWN HEREON HAS BEEN VERIFIED BY REDUNDANT MEASUREMENTS OR TRAVERSE CLOSURES ACHIEVING OR EXCEEDING A CLOSURE OF 1 FOOT IN 10,000 FEET.
4. ALL BOUNDARY LINE BEARINGS, DISTANCES AND CURVE DATA ARE PLAT AND/OR DESCRIBED AND MEASURED UNLESS SHOWN AS (P) = PLAT, (D) = DESCRIBED AND/OR (M) = MEASURED.
5. THIS SURVEY WAS PERFORMED WITH THE BENEFIT OF TITLE COMMITMENT FILE NUMBER 10668226 ISSUED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, EFFECTIVE DATE 8/01/2022 AT 5:00 PM.
6. THERE MAY BE ENVIRONMENTAL ISSUES AND/OR OTHER MATTERS REGULATED BY VARIOUS DEPARTMENTS OF FEDERAL, STATE OR LOCAL GOVERNMENTS AFFECTING THE SUBJECT PROPERTY NOT SHOWN ON THIS SURVEY.
7. THE LANDS SHOWN HEREON LIE IN ZONE X UNSHADED, DEFINED AS AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL FLOOD CHANCE, PER FLOOD INSURANCE RATE MAP (FIRM) NO. 12095C0110H, WITH AN EFFECTIVE MAP DATE OF 9/24/2021. THE ABOVE STATEMENT IS FOR INFORMATION ONLY AND THIS SURVEYOR ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THE CITED MAP. IN ADDITION, THE ABOVE STATEMENT DOES NOT REPRESENT THIS SURVEYOR'S OPINION OF THE PROBABILITY OF FLOODING.
8. THIS SURVEY WAS PERFORMED FOR THE SOLE AND EXCLUSIVE BENEFIT OF THE ENTITIES LISTED HEREON AND SHALL NOT BE RELIED UPON BY ANY OTHER ENTITY OR INDIVIDUAL WHOMSOEVER.
9. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
10. UNLESS OTHERWISE NOTED OR SHOWN HEREON, THERE ARE NO APPARENT AND/OR UNOBSTRUCTED, ABOVE GROUND ENCROACHMENTS. THE DISPOSITION OF ANY POTENTIAL ENCROACHING IMPROVEMENTS SHOWN IS BEYOND PROFESSIONAL PURVIEW AND SUBJECT TO LEGAL INTERPRETATION.
11. UNLESS OTHERWISE NOTED OR SHOWN HEREON, APPARENT AND/OR VISIBLE UNOBSTRUCTED, ABOVE GROUND IMPROVEMENTS WERE LOCATED. UNDERGROUND IMPROVEMENTS, SUCH AS FOUNDATIONS AND UTILITIES, WERE NOT LOCATED.
12. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, ORANGE COUNTY BENCHMARK NUMBER S1579005, ELEVATION BEING 122.654'.
13. LAST DATE OF FIELD SURVEY: OCTOBER 6, 2021.
14. SUBJECT PROPERTY CONTAINS APPROXIMATELY 567,937.58 SQUARE FEET OR 13.038 ACRES.

SYMBOL AND ABBREVIATION LEGEND:

—SD— DRAINAGE PIPE (AS NOTED)	SD STORM DRAINAGE MANHOLE	W WELL	
—OE— OVERHEAD ELECTRICAL LINE	T TELECOMMUNICATION MANHOLE	CB CATCH BASIN	
BENCHMARK LOCATION	TM TELECOMMUNICATION MARKER	NGM NATURAL GAS MARKER	
CATV CABLE TELEVISION CABINET	TR TELECOMMUNICATION RISER	WV WATER VALVE	
CATV CABLE TELEVISION RISER	TV TELECOMMUNICATION VAULT	FOUND IRON ROD OR PIPE AS NOTED	
CONCRETE POWER POLE	TEC TRAFFIC ELECTRIC CABINET	SET 1/2" IRON ROD OR NAIL & DISK LB#6723	
GUY WIRE	PC PEDESTRIAN CROSS POLE	CENTER LINE	
EM ELECTRICAL METER	SM SIGNAL MAST ARM	LB LICENSED BUSINESS	
WOODEN POWER POLE	TEV TRAFFIC ELECTRIC VAULT	PSM PROFESSIONAL SURVEYOR AND MAPPER	
FOV FIBER OPTIC VAULT	BP BACKFLOW PREVENTER	RCP REINFORCED CONCRETE PIPE	
FIBER OPTIC MARKER	FH FIRE HYDRANT	+24.1' SPOT ELEVATION	
IRRIGATION VALVE	WM WATER MARKER	⊠100 TREE LOCATION	
BOLLARD	WM WATER METER		
SINGLE STAND SIGN	WR WATER RISER		
UNKNOWN VAULT			

SCHEDULE B-II TITLE EXCEPTIONS:

4. Easement in favor of Florida Public Service Company, a Florida corporation, recorded May 7, 1928 in Deed Book 338, Page 249, Public Records of Orange County, Florida. (As to Parcel 1) **AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE.**

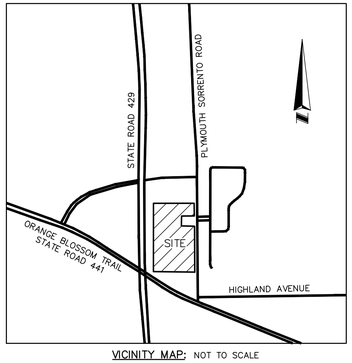
5. Easement in favor of Florida Power Corporation recorded June 1, 1976 in Official Records Book 2703, Page 295, Public Records of Orange County, Florida. (As to Parcel 1) **DOES NOT AFFECT SUBJECT PROPERTY, LIES OFFSITE AT THE NORTHEAST CORNER OF LOT 3.**

6. This exception has been intentionally deleted.

7. Orange County Resolution No. 85-SW-06 recorded April 9,1985 in Official Records Book 3627, Page 1224, Public Records of Orange County, Florida. (As to Parcels 1 and 2) **AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE.**

8. Notice of Future Assessment recorded January 21, 1986 in Official Records Book 3741, Page 249, Public Records of Orange County, Florida. (As to Parcel 1) **AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE (PARCEL 1).**

9. Distribution Easement in favor of Florida Power Corporation, a Florida corporation, recorded December 23, 1986 in Official Records Book 3846, Page 4086, Public Records of Orange County, Florida. (As to Parcel 1) **AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE, SHOWN HEREON WHERE PLOTTABLE (PARCEL 1).**



VICINITY MAP: NOT TO SCALE

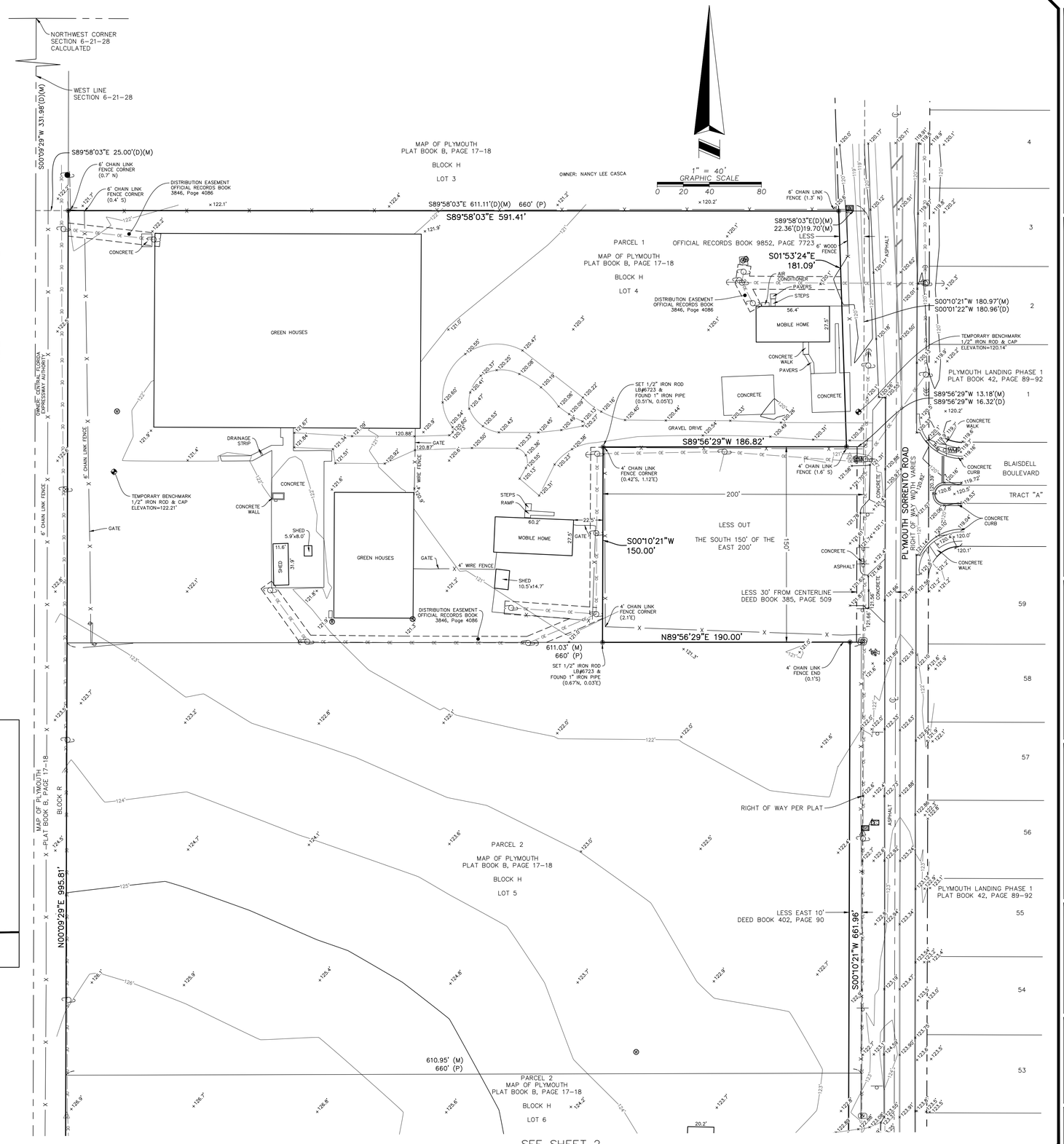
CERTIFIED TO:

-111 PURSUIT LLC, A FLORIDA LIMITED LIABILITY COMPANY
-FIDELITY NATIONAL TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 8, 11, 13 AND 18 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON OCTOBER 6, 2022.

DATE OF PLAT OR MAP: 10/14/2022

JAMES L. BECKMAN, PSM #5633



ALLEN & COMPANY
Founded in 1988
www.allen-company.com
16 EAST PLANT STREET
WINTER GARDEN, FLORIDA 34787
(407) 654-5355

FOR: 111 PURSUIT LLC

DATE	REVISIONS

JOB #: 20220658
DATE: 10/14/22
SCALE: 1" = 40'
CALC BY: BRH
FIELD BY: BS
DRAWN BY: BRH
CHECKED BY: JLR

SHEET 1 OF 5

Drawing name: L:\20220658\dwg\20220658 BOY-TOPO-TREE SHEET 1

SEE SHEET 1

N00°09'29"E 995.81'

S00°10'21"W 661.96'

S89°45'34"W 600.87'
610.87' (M)
660' (P)

PARCEL 2
MAP OF PLYMOUTH
PLAT BOOK B, PAGE 17-18
BLOCK H
LOT 6

MAP OF PLYMOUTH
PLAT BOOK B, PAGE 17-18
BLOCK K

OWNER: CENTRAL FLORIDA EXPRESSWAY AUTHORITY

OWNER: GREEN VALLEY LANDSCAPE MANAGEMENT INC

OWNER: PREM RAHEEM LLC

MAP OF PLYMOUTH
PLAT BOOK B, PAGE 17-18
BLOCK H

RIGHT OF WAY PER PLAT

LESS EAST 10'
DEED BOOK 402, PAGE 90

PLYMOUTH SORRENTO ROAD
RIGHT OF WAY WIDTH VARIES

PLYMOUTH LANDING PHASE 1
PLAT BOOK 42, PAGE 89-92

MAP OF PLYMOUTH
PLAT BOOK B, PAGE 17-18
BLOCK A

ORANGE BLOSSOM TRAIL
(STATE ROAD 441)
RIGHT OF WAY WIDTH VARIES
RIGHT OF WAY MAP 7002-105
(HAND COLOR)

W HIGHLAND AVENUE

52
51
50
49
48

GATE
6' CHAIN LINK FENCE
6' WOOD FENCE (DILAPIDATED)
6' PLASTIC FENCE
CONCRETE WALL
CONCRETE DRAINAGE DITCH
CONCRETE HEADWALL
18" RCP
INVERT=114.67'
30" RCP
INVERT=114.75'
ASPHALT
GRAVEL DRIVE
ASPHALT DRIVE
CONCRETE CURB
PAVERS
SEPTIC
SHED
2 STOREY WOOD FRAME HOUSE
COVERED PORCH
PEDESTRIAN PAD
CONCRETE WALK

FOUND 1/2" IRON PIPE
(0.29'S, 0.06'E) &
FOUND 1/2" IRON PIPE
(0.38'S, 0.06'W)

FOUND 5/8" IRON
ROD & CAP LB#3993

CURB INLET
TOP OF RIM=122.46'
18" RCP INVERT=115.55'

DRAINAGE MANHOLE (SQUARE)
TOP OF RIM=123.62'
30" RCP INVERT=114.92' WEST
30" RCP INVERT=114.98' EAST

DRAINAGE MANHOLE (SQUARE)
TOP OF RIM=124.09'
30" RCP INVERT=115.39' W
30" RCP INVERT=115.16' E

CATCH BASIN
TOP OF GRATE=121.37'
18" RCP INVERT=117.77'

CURB INLET
TOP OF RIM=122.59'
18" RCP INVERT=114.82' N
30" RCP INVERT=115.58' W
30" RCP INVERT=115.66' E

CATCH BASIN
TOP OF GRATE=120.00'
30" RCP INVERT=115.85' W
30" RCP INVERT=116.03' E

DRAINAGE MANHOLE
TOP OF RIM=121.56'
30" RCP INVERT=115.72' W
30" RCP INVERT=115.70' E

DRAINAGE MANHOLE
TOP OF RIM=120.96'
10" PVC INVERT=117.73' E
15" RCP INVERT=117.54' S

DRAINAGE MANHOLE
TOP OF RIM=121.10'
15" RCP INVERT=117.33' N
30" RCP INVERT=116.40' E
15" RCP INVERT=116.88' S
30" RCP INVERT=116.02' W

DRAINAGE MANHOLE (SQUARE)
TOP OF RIM=123.17'
(COULDN'T OPEN)

DRAINAGE MANHOLE
15" RCP INVERT=117.09'

1" = 40'
GRAPHIC SCALE
0 20 40 80

SYMBOL AND ABBREVIATION LEGEND:

SD	DRAINAGE PIPE (AS NOTED)	SD	STORM DRAINAGE MANHOLE
OE	OVERHEAD ELECTRICAL LINE	T	TELECOMMUNICATION MANHOLE
	BENCHMARK LOCATION		TELECOMMUNICATION MARKER
CV	CABLE TELEVISION CABINET	TB	TELECOMMUNICATION RISER
CV	CABLE TELEVISION RISER	TV	TELECOMMUNICATION VAULT
	CONCRETE POWER POLE	TEC	TRAFFIC ELECTRIC CABINET
	GUY WIRE	PX	PEDESTRIAN CROSS POLE
EM	ELECTRICAL METER	MA	SIGNAL MAST ARM
	WOODEN POWER POLE	TEV	TRAFFIC ELECTRIC VAULT
FV	FIBER OPTIC VAULT		BACKFLOW PREVENTER
	FIBER OPTIC MARKER		FIRE HYDRANT
	IRRIGATION VALVE		WATER MARKER
	BOLLARD	WM	WATER METER
	SINGLE STAND SIGN	W	WATER RISER
UK	UNKNOWN VAULT	W	WELL
		CB	CATCH BASIN
			NATURAL GAS MARKER
			WATER VALVE
			FOUND IRON ROD OR PIPE AS NOTED
			SET 1/2" IRON ROD OR NAIL & DISK LB#6723
			CENTER LINE
		LB	LICENSED BUSINESS
		PSM	PROFESSIONAL SURVEYOR AND MAPPER
		RCP	REINFORCED CONCRETE PIPE
		x24.1	SPOT ELEVATION
		100	TREE LOCATION

Drawing name: L:\20220658\dwg\20220658 BOY-TOPO-TREE SHEET 2

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FOR: 111 PURSUIT LLC

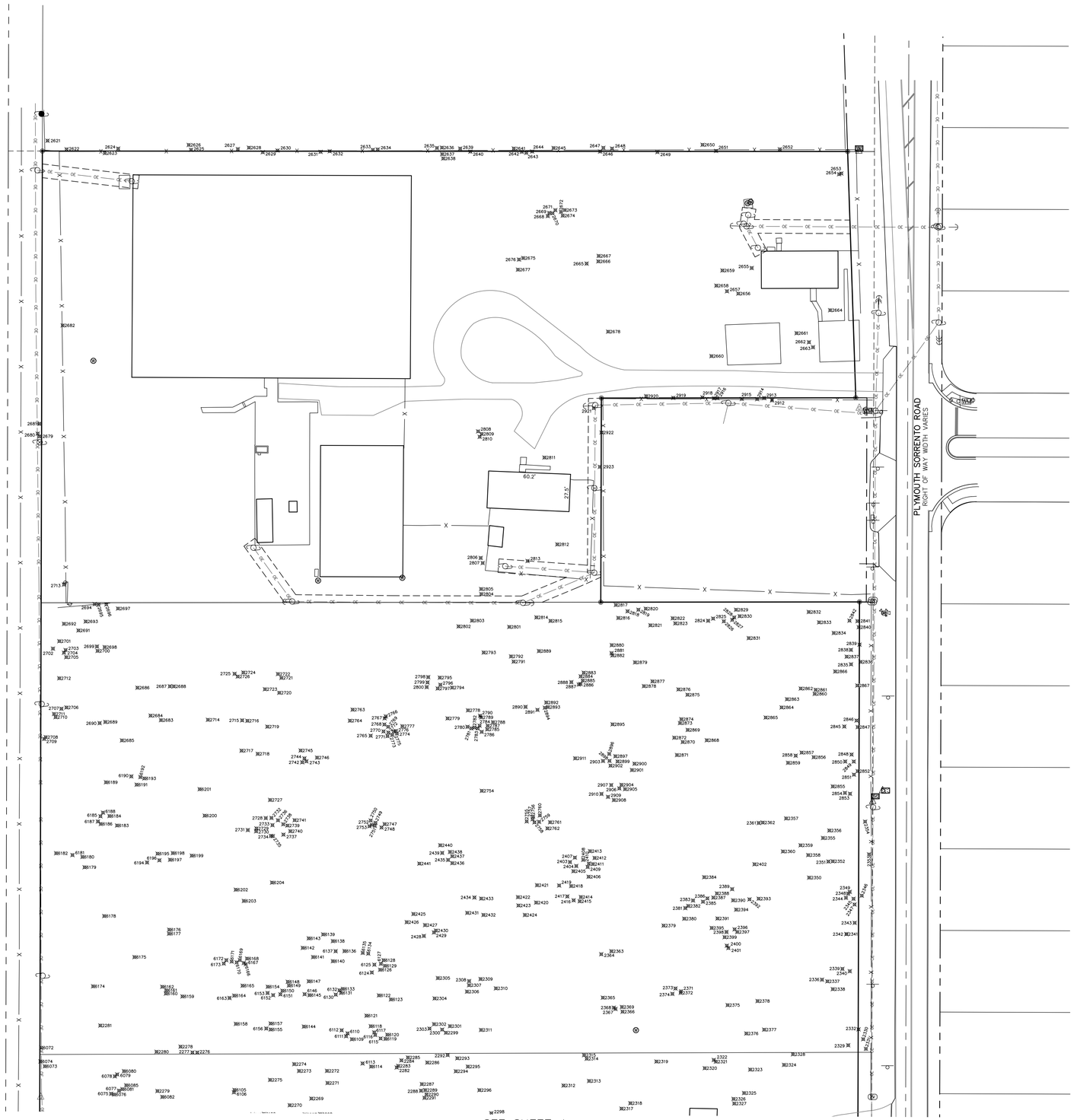
DATE REVISIONS

JOB #: 20220658
DATE: 10/14/22
SCALE: 1" = 40'
CALC BY: BRH
FIELD BY: BS
DRAWN BY: BRH
CHECKED BY: JLR

SHEET 2 OF 5

SYMBOL AND ABBREVIATION LEGEND:

- SD — DRAINAGE PIPE (AS NOTED)
- OE — OVERHEAD ELECTRICAL LINE
- BENCHMARK LOCATION
- CATV — CABLE TELEVISION CABINET
- CATV — CABLE TELEVISION RISER
- CONCRETE POWER POLE
- GUY WIRE
- EM — ELECTRICAL METER
- WOODEN POWER POLE
- FOV — FIBER OPTIC VAULT
- FIBER OPTIC MARKER
- IRRIGATION VALVE
- BOLLARD
- SINGLE STAND SIGN
- UNKNOWN VAULT
- STORM DRAINAGE MANHOLE
- TELECOMMUNICATION MANHOLE
- TELECOMMUNICATION MARKER
- TELECOMMUNICATION RISER
- TELECOMMUNICATION VAULT
- TEC — TRAFFIC ELECTRIC CABINET
- PED — PEDESTRIAN CROSS POLE
- SIGNAL MAST ARM
- TEV — TRAFFIC ELECTRIC VAULT
- BACKFLOW PREVENTER
- FIRE HYDRANT
- WATER MARKER
- WM — WATER METER
- WATER RISER
- WELL
- CB — CATCH BASIN
- NATURAL GAS MARKER
- WATER VALVE
- FOUND IRON ROD OR PIPE AS NOTED
- SET 1/2" IRON ROD OR NAIL & DISK LB#6723
- CENTER LINE
- LB — LICENSED BUSINESS
- PSM — PROFESSIONAL SURVEYOR AND MAPPER
- RCP — REINFORCED CONCRETE PIPE
- x 24.4 — SPOT ELEVATION
- ⊠ 100 — TREE LOCATION



1" = 40'
GRAPHIC SCALE
0 20 40 80

Drawing name: L:\20220658\Dwg\20220658 BDY-TOPO-TREE

SHEET 3

ALLEN & COMPANY
Founded in 1988

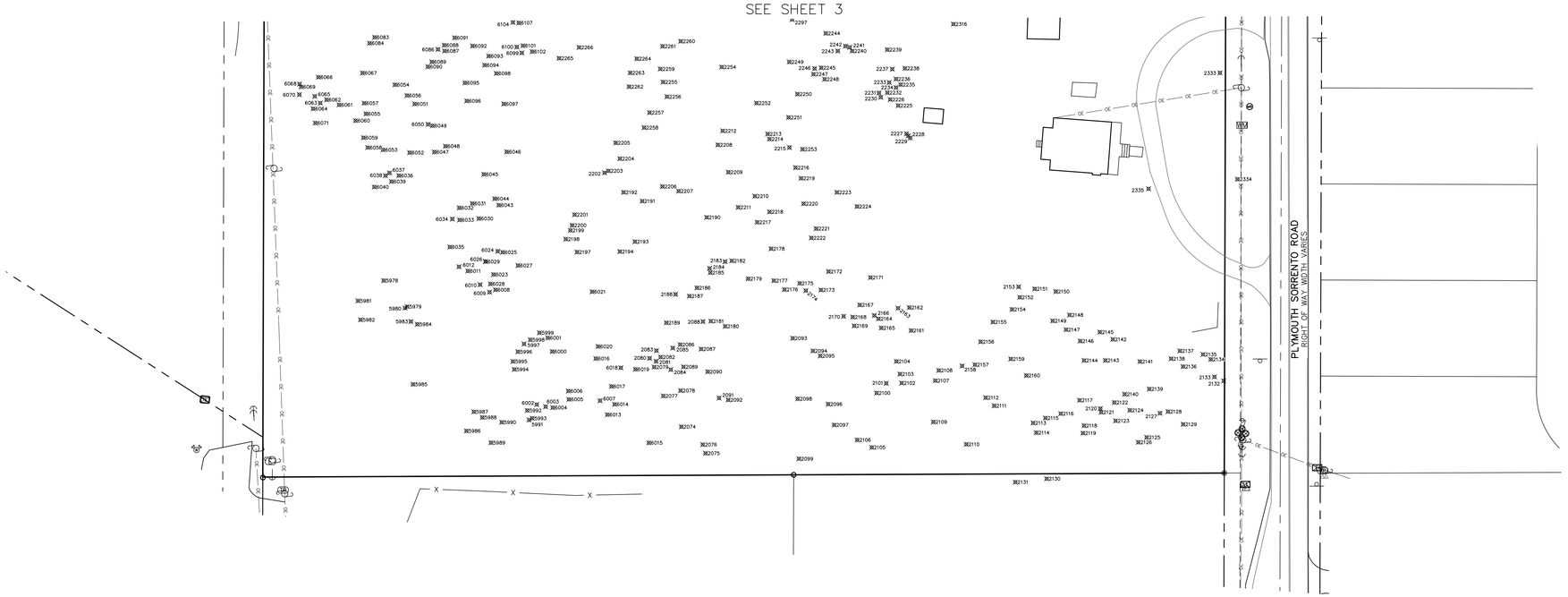
www.allen-company.com
16 EAST PLANT STREET
WINTER GARDEN, FLORIDA 34787
(407) 654-5355

FOR: 111 PURSUIT LLC

DATE	REVISIONS

JOB #: 20220658
DATE: 10/14/22
SCALE: 1" = 40'
CALC BY: BRH
FIELD BY: BS
DRAWN BY: BRH
CHECKED BY: JLR

SHEET 3 OF 5



SYMBOL AND ABBREVIATION LEGEND:

—SD—	DRAINAGE PIPE (AS NOTED)	SD	STORM DRAINAGE MANHOLE
—OE—	OVERHEAD ELECTRICAL LINE	T	TELECOMMUNICATION MANHOLE
	BENCHMARK LOCATION		TELECOMMUNICATION MARKER
CATV	CABLE TELEVISION CABINET	TR	TELECOMMUNICATION RISER
TV	CABLE TELEVISION RISER	TV	TELECOMMUNICATION VAULT
	CONCRETE POWER POLE	TE	TRAFFIC ELECTRIC CABINET
	GUY WIRE	PC	PEDESTRIAN CROSS POLE
EM	ELECTRICAL METER		SIGNAL MAST ARM
	WOODEN POWER POLE	TV	TRAFFIC ELECTRIC VAULT
FO	FIBER OPTIC VAULT		BACKFLOW PREVENTER
	FIBER OPTIC MARKER		FIRE HYDRANT
	IRRIGATION VALVE		WATER MARKER
	BOLLARD	WM	WATER METER
	SINGLE STAND SIGN	WV	WATER RISER
UV	UNKNOWN VAULT	W	WELL
		CB	CATCH BASIN
			NATURAL GAS MARKER
			WATER VALVE
			FOUND IRON ROD OR PIPE AS NOTED
			SET 1/2" IRON ROD OR NAIL & DISK LB#6723
			CENTER LINE
		LB	LICENSED BUSINESS
		PSM	PROFESSIONAL SURVEYOR AND MAPPER
		RCP	REINFORCED CONCRETE PIPE
		123.4	SPOT ELEVATION
		100	TREE LOCATION

1" = 40'
GRAPHIC SCALE
0 20 40 80

Drawing name: L:\20220658\Dwg\20220658 BDY-TOPO-TREE SHEET 4

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FOR: 111 PURSUIT LLC

DATE	REVISIONS

JOB #: 20220658
DATE: 10/14/22
SCALE: 1" = 40'
CALC BY: BRH
FIELD BY: BS
DRAWN BY: BRH
CHECKED BY: JLR

SHEET 4 OF 5

POINT TABLE	
POINT NO.	DESCRIPTION
2074	14" PALM
2075	15" PALM
2076	17" OAK
2077	8" OAK
2078	8" OAK
2079	13" OAK
2080	17" OAK
2081	11" OAK
2082	12-5" OAK
2083	7" OAK
2084	7" OAK
2085	14" OAK
2086	9" OAK
2087	9" PALM
2088	9" OAK
2089	4" PALM
2090	9" OAK
2091	8" MAGNOLIA
2092	13" OAK
2093	30" OAK
2094	5" OAK
2095	9" OAK
2096	12" PALM
2097	26" OAK
2098	8" OAK
2099	6" OAK
2100	18" OAK
2101	9" OAK
2102	17" OAK
2103	13" OAK
2104	21" OAK
2105	18-8" OAK
2106	9" OAK
2107	30" OAK
2108	12" OAK
2109	18" OAK
2110	4" OAK
2111	25" OAK
2112	23" OAK
2113	11" OAK
2114	7" OAK
2115	16" OAK
2116	11" OAK
2117	12" OAK
2118	9" OAK
2119	7" OAK
2120	7" OAK
2121	4" OAK
2122	13" OAK
2123	25" OAK
2124	18" OAK
2125	14" OAK
2126	15" OAK
2127	10" OAK
2128	4" OAK
2129	14" OAK
2130	26" OAK
2131	17" OAK
2132	17" OAK
2133	5" OAK
2134	14" OAK
2135	7" OAK
2136	19" OAK
2137	17" OAK
2138	9" OAK
2139	15" OAK
2140	24" OAK
2141	30" OAK
2142	13" OAK
2143	10" OAK
2144	10" OAK
2145	19" OAK
2146	12" OAK
2147	7" OAK
2148	11" OAK
2149	20" OAK
2150	15" OAK
2151	21" OAK
2152	19" PINE
2153	19" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
2154	6" OAK
2155	18" OAK
2156	21" OAK
2157	16" OAK
2158	8" OAK
2159	22" OAK
2160	17" OAK
2161	19-10" OAK
2162	12" OAK
2163	22" OAK
2164	21" OAK
2165	6" OAK
2166	6" OAK
2167	7" OAK
2168	17" OAK
2169	6" OAK
2170	10" OAK
2171	16" OAK
2172	12" OAK
2173	10" OAK
2174	8" OAK
2175	19" OAK
2176	15" OAK
2177	9" OAK
2178	13-9" OAK
2179	6" OAK
2180	9" OAK
2181	10" OAK
2182	16" OAK
2183	9" OAK
2184	5" OAK
2185	14" OAK
2186	16" OAK
2187	9" OAK
2188	8" OAK
2189	12" OAK
2190	14" OAK
2191	21" OAK
2192	14" OAK
2193	25" OAK
2194	8" PALM
2197	10" OAK
2198	25" OAK
2199	21" OAK
2200	8" OAK
2201	10" OAK
2202	9" OAK
2203	5" OAK
2204	4" OAK
2205	17" OAK
2206	17" OAK
2207	4" OAK
2208	24-20-13" OAK
2209	14" OAK
2210	8" OAK
2211	6" OAK
2212	9" OAK
2213	9" OAK
2214	11" OAK
2215	6" OAK
2216	13-12" OAK
2217	10" OAK
2218	9" OAK
2219	11" OAK
2220	13-10" OAK
2221	9" OAK
2222	12-12-9" OAK
2223	13" PALM
2224	19-18-16" OAK
2225	6" OAK
2226	4" OAK
2227	6" OAK
2228	6" OAK
2229	5" OAK
2230	4" OAK
2231	5" OAK
2232	7" ELM
2233	7" OAK
2234	4" OAK
2235	10" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
2236	5" OAK
2237	8" OAK
2238	18" OAK
2239	13" PALM
2240	4" OAK
2241	12" OAK
2242	6" OAK
2243	6" OAK
2244	6" OAK
2245	9-7" OAK
2246	21" OAK
2247	19" PINE
2248	4" OAK
2249	8-6" OAK
2250	12" OAK
2251	22" OAK
2252	13" OAK
2253	17-15" OAK
2254	9 6" OAK
2255	27" OAK
2256	5" OAK
2257	9" OAK
2258	7" OAK
2259	4" OAK
2260	4" OAK
2261	7" OAK
2262	17-16" OAK
2263	5" OAK
2264	4" OAK
2265	35" OAK
2266	15" OAK
2267	14" OAK
2268	18" OAK
2269	9" OAK
2270	22" OAK
2271	5" OAK
2272	7" OAK
2273	16" OAK
2274	8" OAK
2275	7" OAK
2276	7" OAK
2277	5" OAK
2278	5" OAK
2279	38" OAK
2280	6" OAK
2281	41" OAK
2282	5" OAK
2283	8" OAK
2284	4" OAK
2285	7" OAK
2286	7" OAK
2287	5" OAK
2288	14-4" OAK
2289	12" OAK
2290	12" OAK
2291	9" OAK
2292	6" OAK
2293	14" OAK
2294	5" OAK
2295	4" OAK
2296	12" OAK
2297	13-12" OAK
2298	8 8" OAK
2299	10-7-6" OAK
2300	12" PALM
2301	7" OAK
2302	7" OAK
2303	9" OAK
2304	8 7" OAK
2305	13" OAK
2306	13-12-10-8" OAK
2307	13" OAK
2308	9-7" OAK
2309	12-12-11-4" OAK
2310	8" OAK
2311	12-11-9" OAK
2312	16" OAK
2313	4" OAK
2314	4-4" OAK
2315	4" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
2316	4" OAK
2317	6" OAK
2318	25-20" OAK
2319	50-22" OAK
2320	21-14-6" OAK
2321	5" OAK
2322	10-8" OAK
2323	20" OAK
2324	32" OAK
2325	14" PALM
2326	14" PALM
2327	12" PALM
2328	4" OAK
2329	14-5" OAK
2330	4" OAK
2331	5" OAK
2332	5" OAK
2333	25" MAGNOLIA
2334	35" OAK
2335	57" OAK
2336	5" OAK
2337	14-8" OAK
2338	9" OAK
2339	8" OAK
2340	12" PALM
2341	15-10" OAK
2342	15-10" OAK
2343	13" OAK
2344	9" OAK
2345	19" OAK
2346	25-24" OAK
2347	18" PALM
2348	4" OAK
2349	7" OAK
2350	17" OAK
2351	13-9" OAK
2352	6" OAK
2353	20" PALM
2354	13" OAK
2355	13" OAK
2356	4" OAK
2357	5-4" OAK
2358	4" OAK
2359	10" OAK
2360	8" OAK
2361	6" OAK
2362	8-5" OAK
2363	4-3" OAK
2364	7" OAK
2365	4" OAK
2366	10-8" OAK
2367	9-4" OAK
2368	10" OAK
2369	6" OAK
2371	38" OAK
2372	33-18" OAK
2373	7" OAK
2374	8-3" OAK
2375	5-4" OAK
2376	8" OAK
2377	5-3" OAK
2378	8" OAK
2379	4" OAK
2380	4" OAK
2381	4" OAK
2382	11" OAK
2383	11" OAK
2384	6" OAK
2385	5" OAK
2386	5" OAK
2387	6" OAK
2388	10" OAK
2389	4" OAK
2390	4" OAK
2391	4" OAK
2392	5" OAK
2393	7" OAK
2394	9" PINE
2395	36" OAK
2396	5" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
2397	5" OAK
2398	8" OAK
2399	5" OAK
2400	4" OAK
2401	6" OAK
2402	8" OAK
2403	12" OAK
2404	4" OAK
2405	4" OAK
2406	4" OAK
2407	6" OAK
2408	10" OAK
2409	4" OAK
2410	8" OAK
2411	11" OAK
2412	10-6" OAK
2413	9" OAK
2414	13-7" OAK
2415	5" OAK
2416	5-4" OAK
2417	10-10-4" OAK
2418	7" OAK
2419	13" OAK
2420	19-12-12-7" OAK
2421	4" OAK
2422	11" OAK
2423	8" OAK
2424	10" OAK
2425	4" OAK
2426	19" OAK
2427	7" OAK
2428	5" OAK
2429	9" OAK
2430	8" OAK
2431	4" OAK
2432	4" OAK
2433	6" OAK
2434	21" OAK
2435	15-13-13" OAK
2436	15" OAK
2437	14-13-10" OAK
2438	7" OAK
2439	13-11" OAK
2440	5" OAK
2441	4" OAK
2621	13" OAK
2622	10" OAK
2623	17" PALM
2624	13" PALM
2625	13" OAK
2626	9" OAK
2627	18" PALM
2628	7" OAK
2629	15" PALM
2630	16" PALM
2631	16" PALM
2632	17" PALM
2633	14" PALM
2634	19" PALM
2635	13" PALM
2636	12" OAK
2637	12" PALM
2638	13" PALM
2639	30-21" OAK
2640	9" PALM
2641	17" PALM
2642	14" PALM
2643	14" PALM
2644	16" PALM
2645	13" PALM
2646	17" PALM
2647	8" OAK
2648	13" PALM
2649	17" PALM
2650	14" OAK
2651	17" PALM
2652	14" PALM
2653	13" PALM
2654	13" PALM
2655	13" PALM

POINT TABLE	
POINT NO.	DESCRIPTION
2656	12" PALM
2657	14" PALM
2658	15" PALM
2659	13" PALM
2660	27" CEDAR
2661	14" PALM
2662	15" PALM
2663	18" PALM
2664	10" PALM
2665	13" PALM
2666	15" PALM
2667	14" PALM
2668	13" PALM
2669	10" PALM
2670	12" PALM
2671	10" PALM
2672	12" PALM
2673	12" PALM
2674	12" PALM
2675	12" OAK
2676	14" PALM
2677	11" PALM
2678	14" PALM
2679	8" OAK
2680	6" OAK
2681	7-6-3" OAK
2682	21" OAK
2683	26" OAK
2684	7" OAK
2685	7" OAK
2686	35" OAK
2687	25-16" OAK
2688	13-11" OAK
2689	13" OAK
2690	11" OAK
2691	8" OAK
2692	6-5" OAK
2693	9" OAK
2694	16" OAK
2695	5" OAK
2696	34" OAK
2697	23-14-7" OAK
2698	12-12-8" OAK
2699	11" OAK
2700	4" OAK
2701	9" OAK
2702	6" OAK
2703	5-5-4" OAK
2704	4" OAK
2705	4" OAK
2706	5" OAK
2707	5" OAK
2708	9" OAK
2709	14" PALM
2710	9-5" OAK
2711	9-7" OAK
2712	10-7" OAK
2713	4" OAK
2714	36" OAK
2715	14" OAK
2716	18" OAK
2717	24" OAK
2718	8" OAK
2719	12-11" OAK
2720	22" OAK
2721	7" OAK
2722	12" OAK
2723	15" OAK
2724	8" OAK
2725	4" OAK
2726	5" OAK
2727	5" OAK
2728	11" OAK
2729	5" OAK
2730	4-4" OAK
2731	6" OAK
2732	4" OAK
2733	11-10-8" OAK
2734	6" OAK
2735	7" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
2736	10" OAK
2737	7" OAK
2738	8" OAK
2739	4" OAK
2740	8" OAK
2741	15" OAK
2742	9-9" OAK
2743	8" OAK
2744	9" OAK
2745	9" OAK
2746	24" OAK
2747	12" OAK
2748	14-13-4" OAK
2749	8" OAK
2750	5" OAK
2751	6" OAK
2752	11-9" OAK
2753	11-10" OAK
2754	17-16-15-15-14" OAK
2755	12" OAK
2756	10-9" OAK
2757	10-10" OAK
2758	8" OAK
2759	10-10" OAK
2760	10" OAK
2761	7" OAK
2762	4" OAK
2763	34" OAK
2764	18" OAK
2765	6" OAK
2766	6" OAK
2767	6" OAK
2768	5" OAK
2769	4" OAK
2770	7-5" OAK
2771	7-6-6" OAK
2772	11" OAK
2773	17" OAK
2774	16" OAK
2775	9" OAK
2776	9" OAK
2777	25" OAK
2778	8" OAK
2779	13" OAK
2780	8" OAK
2781	8" OAK
2782	7" OAK
2783	7" OAK
2784	7" OAK
2785	7" OAK
2786	6" OAK
2787	7-6" OAK
2788	7" OAK
2789	6" OAK
2790	8" OAK
2791	23" OAK
2792	4" OAK
2793	38" OAK
2794	17" OAK
2795	5" OAK
2796	4" OAK
2797	14" OAK
2798	7" OAK
2799	13" OAK
2800	10" OAK
2801	12" OAK
2802	16 9" OAK
2803	23-17-13" OAK
2804	13" PALM
2805	13" OAK
2806	17" PALM
2807	15" PALM
2808	15" PALM
2809	15" PALM
2810	13" PALM
2811	47" OAK
2812	40" OAK
2813	32" OAK
2814	23-13" OAK
2815	37-7" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
2816	16" OAK
2817	7" OAK
2818	6" OAK
2819	6" OAK
2820	7" OAK
2821	20-20" OAK
2822	7" OAK
2823	24" OAK
2824	35" OAK
2825	15" PALM
2826	9" OAK
2827	13" OAK
2828	6" OAK
2829	6" OAK
2830	10" OAK
2831	7" OAK
2832	7" OAK
2833	34" OAK
2834	9" OAK
2835	5" OAK
2836	15" PALM
2837	10" OAK
2838	12-7" OAK
2839	12" PALM
2840	14" PALM
2841	15" PALM
2842	12" OAK
2845	9" OAK
2846	20" OAK
2847	16" PALM
2848	10" OAK
2849	15" OAK
2850	12" PALM
2851	7" OAK
2852	7" OAK
2853	5" OAK
2854	12" PALM
2855	6" OAK
2856	32" OAK
2857	5" OAK
2858	7" OAK
2859	17" OAK
2860	5" OAK
2861	27-21" OAK
2862	7" OAK
2863	4" OAK
2864	6" OAK
2865	5" OAK
2866	17" OAK
2867	9" OAK
2868	8" OAK
2869	12" OAK
2870	12" OAK
2871	4" OAK
2872	7" OAK
2873	24" OAK
2874	5" OAK
2875	10" OAK
2876	13" OAK
2877	8" OAK
2878	21" OAK
2879	19" OAK
2880	5" OAK
2881	5" OAK
2882	9" PALM
2883	5" OAK
2884	10" OAK
2885	8" OAK
2886	4" OAK
2887	8" OAK
2888	9" OAK
2889	7" OAK
2890	6" OAK
2891	11" OAK
2892	13" OAK
2893	11" OAK
2894	7" OAK
2895	24-14" OAK
2896	14" OAK
2897	7" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
2898	24" OAK
2899	8" OAK
2900	5" OAK
2901	5-3" OAK
2902	5" OAK
2903	13" OAK
2904	8" OAK
2905	8" OAK
2906	9-8" OAK
2907	5" OAK
2908	6" OAK
2909	11" OAK
2910	4-4" OAK
2911	20" OAK
2912	10" PALM
2913	14" PALM
2914	16" PALM
2915	14" PALM
2916	12" PALM
2917	14" PALM
2918	13" PALM
2919	17" PALM
2920	14" PALM
2921	13" PALM
2922	15" PALM
2923	16" PALM
5978	14" OAK
5979	10" OAK
5980	4" OAK
5981	20-20-20-20" OAK
5982	14" OAK
5983	11" OAK
5984	5" OAK
5985	24-24-24" OAK
5986	26" OAK
5987	8" OAK
5988	10" OAK
5989	20" OAK
5990	15" OAK
5991	20" OAK
5992	8" OAK
5993	8" OAK
5994	20" OAK
5995	6" OAK
5996	9" OAK
5997	10" OAK
5998	16" OAK
5999	16" OAK
6000	9" OAK
6001	5" OAK
6002	8" OAK
6003	9" OAK
6004	10" OAK
6005	10" OAK
6006	9" OAK
6007	8" OAK
6008	6" OAK
6009	10" OAK
6010	6" OAK
6011	6" OAK
6012	12" OAK
6013	10" OAK
6014	8-8" OAK
6015	20" OAK
6016	8" OAK
6017	18" OAK
6018	5" OAK
6019	5" OAK
6020	5" OAK
6021	18" OAK
6023	7" OAK
6024	8" OAK
6025	12" OAK
6026	15" OAK
6027	12" OAK
6028	10" OAK
6029	12" OAK
6030	36" OAK
6031	30" OAK
6032	12" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
6033	12" OAK
6034	12" OAK
6035	12" OAK
6036	15" OAK
6037	12" OAK
6038	20" OAK
6039	12" OAK
6040	6" OAK
6043	10" OAK
6044	15" OAK
6045	15" OAK
6046	36" OAK
6047	12" OAK
6048	12" OAK
6049	9" OAK
6050	10" OAK
6051	6" OAK
6052	7" CAMPHOR
6053	4" OAK
6054	12" OAK
6055	6" OAK
6056	6" OAK
6057	8" OAK
6058	7" CAMPHOR
6059	5" CAMPHOR
6060	4" CAMPHOR
6061	7" OAK
6062	11" OAK
6063	4" OAK
6064	4" OAK
6065	5" OAK
6066	5" OAK
6067	12" OAK
6068	4" OAK
6069	12" OAK
6070	9" OAK
6071	6" OAK
6072	18" CAMPHOR
6073	16" CAMPHOR
6074	5" OAK
6075	30" OAK
6076	11" OAK
6077	10" OAK
6078	17" OAK
6079	8" OAK
6080	8" OAK
6081	13" OAK
6082	40" OAK
6083	12" OAK
6084	14" OAK
6085	9" OAK
6086	36" OAK
6087	6" OAK
6088	8" OAK
6089	9" OAK
6090	10" OAK
6091	6" OAK
6092	4" OAK
6093	7" OAK
6094	10" OAK
6095	14" OAK
6096	10" OAK
6097	13" OAK
6098	6" OAK
6099	15" PINE
6100	7" OAK
6101	5" OAK
6102	10" OAK
6103	9" OAK
6104	16" PINE
6105	20-20-20-20" OAK
6106	12" PINE
6107	16" OAK
6108	6" PALM
6109	8" OAK
6110	5" OAK
6111	15" OAK
6112	12" OAK
6113	7" OAK
6114	15" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
6115	7" OAK
6116	4" OAK
6117	10" OAK
6118	5" OAK
6119	4" OAK
6120	7" OAK
6121	12" OAK
6122	15" OAK
6123	10-10-10" OAK
6124	7" OAK
6125	15-15-15-15" OAK
6126	15" OAK
6127	5" OAK
6128	12" OAK
6129	18" OAK
6130	6" OAK
6131	10" OAK
6132	8" OAK
6133	8" OAK
6134	5" OAK
6135	4" OAK
6136	6" OAK
6137	6" OAK
6138	6" OAK
6139	6" OAK
6140	14" OAK
6141	16-16-16-16" OAK
6142	5" OAK
6143	5" OAK
6144	20" OAK
6145	7" OAK
6146	6" OAK
6147	6" OAK
6148	5" OAK
6149	8" OAK
6150	4" OAK
6151	8-8-8" OAK
6152	5" OAK
6153	6" OAK
6154	5" OAK
6155	12" OAK
6156	6" OAK
6157	12" OAK
6158	16-16" OAK
6159	12" OAK
6160	15" OAK
6161	12" OAK
6162	10" OAK
6163	4" OAK
6164	4" OAK
6165	6" OAK
6166	5" OAK
6167	5" OAK
6168	6" OAK
6169	6" OAK
6170	15-15" OAK
6171	5" OAK
6172	10" OAK
6173	12" OAK
6174	12" OAK
6175	15-15-15" OAK
6176	24" OAK
6177	16" OAK
6178	24-24-24-24-24" OAK
6179	6" OAK
6180	10" OAK
6181	10" OAK
6182	6" OAK
6183	5" OAK
6184	8" OAK
6185	8-8" OAK
6186	34" OAK
6187	15" OAK
6188	16-16" OAK
6189	18" OAK
6190	6" OAK
6191	24" OAK
6192	10" OAK
6193	9" OAK
6194	5" OAK

POINT TABLE	
POINT NO.	DESCRIPTION
6195	5" OAK
6196	5" OAK
6197	16" OAK
6198	24" OAK
6199	5" OAK
6200	15" OAK
6201	26" OAK
6202	12-12-12-12-12-12" OAK
6203	7" OAK
6204	4" OAK

ALLEN & COMPANY
Founded in 1988
www.allen-company.com
16 EAST PLANT STREET
WINTER GARDEN, FLORIDA 34787
(407) 654-5355

FOR: 111 PURSUIT LLC

DATE REVISIONS

JOB #: 20220658
DATE: 10/14/22
SCALE: 1" = 40'
CALC BY: BRH
FIELD BY: BS
DRAWN BY: BRH
CHECKED BY: JLR

SHEET 5 OF 5

Drawing name: L:\20220658\dwg\20220658 BSY-TOPO-TREE SHEET 5

SITE DATA TABLE

CURRENT ZONING: MU-D

FUTURE LAND USE: COM (SPECIAL EXCEPTION) (LDC SECTION 4.2.2.C)

BUILDING SETBACK:

FRONT = N/A (FACING SOUTH HAWTHORNE AVE.)
N SIDE = N/A
S SIDE = N/A (FACING 4TH STREET)
REAR = N/A

LANDSCAPE BUFFER:

FRONT = N/A (FACING SOUTH HAWTHORNE AVE.)
N SIDE = N/A
S SIDE = N/A (FACING 4TH STREET)
REAR = N/A

FLOOR AREA RATIO ALLOWED: = 0.25

FLOOR AREA RATIO PROVIDED: = 0.23

INDIVIDUAL BUILDING INFORMATION:

TOTAL SQUARE FOOTAGE	=	12,320 SF
MAX. BUILDING HEIGHT	=	75 FT
ACTUAL BUILDING HEIGHT	=	36 FT

PROPOSED CONDITIONS:

IMPERVIOUS (BUILDINGS)	=	24,640 SF = 0.566 AC (23.28%)
IMPERVIOUS (DRIVEWAYS)	=	47,424 SF = 1.089 AC (44.80%)
PERVIOUS	=	33,787 SF = 0.775 AC (31.92%)
TOTAL	=	105,851 SF = 2.430 AC (100.00%)

PARKING REQUIREMENTS:

2 SPACES PER 1,000 SF OF WAREHOUSE AREA
1 SPACE PER 250 SF OFFICE AREA

2 SPACES X (24,640 SF/1,000 SF) = 50 SPACES
1 SPACE X (0,000 SF/250 SF) = 00 SPACES
TOTAL SPACES REQUIRED = 50

PARKING PROVIDED:

56 SPACES @ 9'x18' (REGULAR)
4 SPACES @ 12'x18' (HANDICAP)
60 SPACES TOTAL PROVIDED

PARCEL ID NUMBERS:

09-21-28-0196-10-250

PROPERTY BOUNDARY INFORMATION

PROPERTY BOUNDARY:	BEARING:	LENGTH:
PB1	S 89°28'44" E	104.91'
PB2	S 89°51'34" E	145.62'
PB3	S 00°22'15" W	399.86'
PB4	N 89°44'52" W	259.33'
PB5	N 01°37'55" E	400.20'

CONSTRUCTION PHASING

SINGLE PHASE

DRAINAGE OPENINGS IN RETAINING WALL

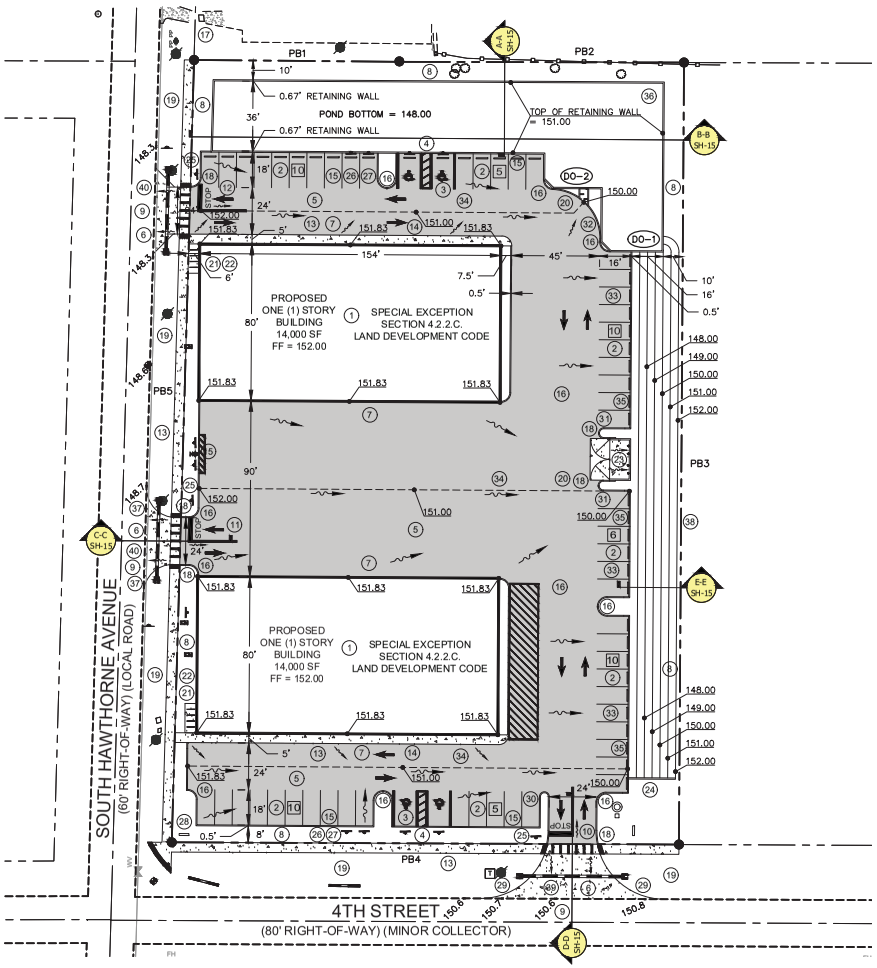
NUMBER:	TYPE OF OPENING:	INVERT:	HEIGHT:	LENGTH:
DO-1	RECTANGLE	148.00'	3.00'	12.00'
DO-2	RECTANGLE	148.00'	2.00'	6.00'

DRAINAGE AND GENERAL NOTES

1. ALL PIPING IS MANUFACTURED BY ADVANCE DRAINAGE SYSTEMS.
2. ALL CONCRETE STRUCTURES MANUFACTURED BY MACK CONCRETE.
3. VEHICLE PARKING IS PROHIBITED ON THE SPINE ROADS (SOUTH HAWTHORNE AVE & 4TH STREET).
4. CONTRACTOR TO GRADE SOILS SO THAT THE ELEVATIONS ARE 0.10' BELOW IMMEDIATE ADJACENT SIDEWALK.
5. ALL CONCRETE SIDEWALKS ARE TO BE CONSTRUCTED AT 2.00% MAXIMUM SLOPE PER THE ADA.
6. THE BUILDING AND ALL PROPOSED INFRASTRUCTURES, E.G., PAVEMENT, DRAINAGE, SIDEWALKS, SANITARY COLLECTION, POTABLE WATER AND FIRE PROTECTION, ETC. WILL BE CONSTRUCTED IN SINGLE PHASE.
7. NO OUTSIDE STORAGE OR MAINTENANCE.
8. INTENDED USE: MIXED USE DEVELOPMENT.
9. DIRECTIONAL ARROWS PER FDOT STANDARD INDEX 17346 (LATEST EDITION).

SURVEY NOTES:

1. THIS PLAN INDICATES THE LOCATION OF THE PROPERTY BOUNDARY, AS PROVIDED BY NIETO WHITTAKER, LLC, A FLORIDA LICENSED LAND SURVEYING COMPANY.
2. THE ENGINEER OF RECORD DOES NOT CERTIFY TO THE CORRECTNESS OF THE BOUNDARY, WHICH HAS BEEN PROVIDED FOR INFORMATIONAL AND CIVIL ENGINEERING DESIGN PURPOSES ONLY.



SITE DEVELOPMENT PLAN

SCALE: 1" = 30'

GRAPHIC SCALE
0' 15' 30' 60' 90'
1" = 30'

CONSTRUCTION NOTES:

1. CONSTRUCT ONE (1) STORY BUILDING. SEE ARCHITECTURAL PLANS FOR DOOR AND WINDOW LOCATIONS PLUS DIMENSIONS.
2. STRIPE THE PROPOSED REGULAR PARKING SPACES PER THE MANUAL ENTITLED "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
3. STRIPE AND SIGN THE PROPOSED HANDICAPPED PARKING SPACES PER THE DOCUMENTS ENTITLED "AMERICANS WITH DISABILITIES ACT" (A.D.A. & THE MUTCD).
4. INSTALL FTP-25 STANDARD HANDICAPPED PARKING SIGNS PER FDOT STANDARD INDEX (LATEST EDITION). PROVIDE A SIGN THAT SAYS SPACE IS "VAN ACCESSIBLE" PER LDC SEC. 5.1.5.
5. CONSTRUCT 1 ½" ASPHALTIC CONCRETE SURFACE (TYPE S-III), 6" LIMEROCK AND 12" STABILIZED SUBBASE.
6. RIGHT- OF-WAY: CONSTRUCT 6" REINFORCED CONCRETE WITH 6" X 6", 10X10 WWF OR FIBERMESH, 12" STABILIZED SUBBASE. (REFER TO PLAN SHEETS 13 FOR CONSTRUCTION DETAILS.)
7. INSTALL DOWNSPOUT TO BE TIED INTO STORMWATER DRAINAGE SYSTEM (SEE PLAN SHEET 13).
8. ALL GREEN AREAS TO BE SODDED AND/OR LANDSCAPED.
9. MATCH EDGE OF EXISTING PAVEMENT WITH SAW CUT.
10. CONSTRUCT 12.50 LF OF 24" STOP BAR AND STOP SIGN.
11. CONSTRUCT 16.85 LF OF 24" STOP BAR AND STOP SIGN.
12. CONSTRUCT 13.84 LF OF 24" STOP BAR AND STOP SIGN.
13. CONSTRUCT 5' WIDE CONCRETE SIDEWALK AT 2.00% MAXIMUM GRADE. (SEE PLAN SHEET 12) (DRAIN AWAY FROM BUILDING).
14. SIDEWALK ELEVATION FLUSH WITH PAVEMENT.
15. CONSTRUCT STANDARD FDOT TYPE "D" CURB PER THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX 300, LATEST EDITION.
16. ALL CURB RADII ARE 4'-6" AS MEASURED FROM THE INSIDE FACE OF CURB UNLESS OTHERWISE NOTED.
17. EXISTING DRAINAGE STRUCTURE. CONTRACTOR TO VERIFY RIM ELEVATION.
18. 3' CONCRETE CURB TAPER.
19. REPLACE EXISTING SOD EQUAL TO OR BETTER THAN ORIGINAL CONDITION.
20. CONTRACTOR TO ENSURE POSITIVE FLOW TO FLUME.
21. CONCRETE BIKE RACK PAD ELEVATION FLUSH WITH SIDEWALK.
22. CONSTRUCT 6' WIDE CONCRETE BIKE RACK PAD WITH FOUR (4) BIKE RACKS (DRAIN AWAY FROM BUILDING).
23. DUMPSTER ENCLOSURE (SEE PLAN SHEET 8). 21'-4" X 10'-0" X 6" THICK CONCRETE PAD (SEE PLAN SHEET 13).
24. CONSTRUCT DRAINAGE CONTROL STRUCTURE (SEE PLAN SHEET 13).
25. CONTRACTOR TO INSTALL STOP SIGN.
26. TWO (2) ELECTRIC CAR PARKING ONLY SIGNS.
27. TWO (2) ELECTRIC CAR CHARGING STATIONS.
28. MONUMENT SIGN: 5'-0" X 3'-0" (SEE PLAN SHEET 13).
29. CONSTRUCT 35' RADIUS.
30. CONSTRUCT 2' RADIUS MEASURED FROM INSIDE FACE OF CURB.
31. CONSTRUCT 2'-3" RADIUS MEASURED FROM INSIDE FACE OF CURB.
32. CONSTRUCT 25' RADIUS MEASURED FROM INSIDE FACE OF CURB.
33. CONTRACTOR TO ENSURE POSITIVE FLOW TO SWALE.
34. DRAINAGE VALLEY
35. CONSTRUCT FLUSH CURB (SEE PLAN SHEET 13).
36. 4' HIGH RETAINING WALL (TRINITY SYSTEM) WITH 4' HIGH BLACK CHAIN LINK FENCE.
37. CONSTRUCT 15' RADIUS.
38. CONSTRUCT 2' WIDE BERM.
39. CONSTRUCT 57 LF OF 18" HDPE DRAINAGE PIPE WITH MITERED END SECTIONS AT FINISHED GRADE.
40. CONSTRUCT 45 LF OF 18" HDPE DRAINAGE PIPE WITH MITERED END SECTIONS AT FINISHED GRADE.

48 HOURS BEFORE DIGGING CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NO.	REVISION/ISSUE	DATE

SITE DEVELOPMENT PLAN
MICHAEL R. COOPER CONSTRUCTION COMPANY, INC.
700 GEM COMMERCE COURT
APOPKA, FLORIDA 32703

KENNETH H. EHLERS LICENSE No. 18243 STATE OF FLORIDA PROFESSIONAL ENGINEER

Reason: Kenneth H Ehlers PE18243 This item has been electronically signed and sealed using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
Date: 2023.08.23 17:30:14 -04'00'
Adobe Acrobat version: 2023.003.20269

ENGINEER OF RECORD
KEN EHLERS, P.E.
FLORIDA P.E. LICENSE NO. 18243
PROFESSIONAL ENGINEERING SERVICES
6034 FALCONBRIDGE PLACE
MOUNT DORA, FL 32757
CELL PHONE: (407) 448-3412

PROJECT NAME
MICHAEL R. COOPER CONSTRUCTION COMPANY, INC.
BUSINESS CENTER

DWG	SHEET
SHEETS 1-18	6
DATE: MARCH 31, 2023	
SCALE: AS SHOWN	

PROJECT UPDATE: 08/18/23

CONSTRUCTION SITE PLAN
FOR
FAIRCLOTH LAKES SUBDIVISION

CENTRAL FLORIDA ENGINEERING, INC.
CIVIL ENGINEERING CONSULTANT
3586 ALOMA AVE. SUITE 14 WINTER PARK, FL. 32792
PHONE: (407)719-6040 EMAIL: jfraserpe@earthlink.net

PROJECT INFORMATION

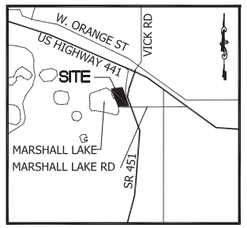
DEVELOPER:
HOLSTON PROPERTIES AND DEVELOPMENT
7575 DR PHILLIPS BLVD #245
ORLANDO, FL 32819
PHONE: (407)481-0002
E-MAIL:hodev@yahoo.com

CIVIL ENGINEER:
CENTRAL FLORIDA ENGINEERING, INC.
3586 ALOMA AVE. SUITE 14
WINTER PARK, FL. 32792
PHONE: (407)719-6040
FAX: (407)275-5431
E-MAIL:jfraserpe@earthlink.net

LANDSCAPE ARCHITECT:
LANDSCAPE DYNAMICS, CC, INC
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LOCATION MAP
NTS

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NOTE

A LETTER MUST BE OBTAINED FROM THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSIONER (FFWCC) REGARDING WILDLIFE MANAGEMENT PLAN FOR ENDANGERED SPECIES, PRIOR TO ANY CONSTRUCTION ACTIVITIES OCCURRING ON SITE

SITE DATA TABLE

PARCEL ID NUMBER	08-21-28-0000-00-050	
FUTURE LAND USE	RESIDENTIAL LOW(RL)	
ZONING	PD	
ADJACENT FUTURE LAND USE	NORTH SOUTH EAST WEST RL RL R/W RL	
ADJACENT ZONING	NORTH SOUTH EAST WEST R-4 PUD-MIXED EC R/W R-3	
ACREAGE SQUARE FOOT	1,105,647	
BUILDING HEIGHT	PROPOSED MAX. 35' 35'	
FLOOR AREA RATIO	PROPOSED MAX. N/A N/A	
BUILDING SETBACKS	PROPOSED: FRONT SIDE REAR CORNER 25' 7.5' 20' 25'	
	REQUIRED: FRONT SIDE REAR CORNER 25' 7.5' 20' 25'	
PARKING SPACES	N/A	
NUMBER OF EMPLOYESS	N/A	
PROPOSED NUMBER OF BEDS	N/A	
WAIVER REQUEST	YES (NO)	
VARIANCE REQUEST	YES (NO)	

SITE INFORMATION

PARDEL ID: 08-21-28-0000-00-050
PROPERTY ADDRESS: MARSHALL LAKE RD
TOTAL ACREAGE: 25.38 AC.
TOTAL DEVELOPABLE ACREAGE: 11.15 AC (UPLAND OF THE WETLANDS)
EXISTING ZONING: R-2
FUTURE LAND USE DESIGNATION: RESIDENTIAL LOW
ZONING TO THE NORTH: R-3
ZONING TO THE EAST: SR 451 R/W
ZONING TO THE WEST: R-3
ZONING TO THE SOUTH: PUD-MIXED EC
LAND USE TO THE NORTH: SINGLE FAMILY DEVELOPMENT
LAND USE TO THE EAST: SR 451 R/W
LAND USE TO THE WEST: SINGLE FAMILY DEVELOPMENT
LAND USE TO THE SOUTH: SINGLE FAMILY DEVELOPMENT
OF LOTS PROPOSED: 31
RESIDENTIAL DENSITY= 31 DWELLING UNITS/ 11.15 ACRES = 2.8 UNITS PER DEVLOPABLE ACRE
PROPOSED PHASING: 1-PHASE
EXISTING USE: OPEN SPACE
POTABLE WATER, RECLAIMED WATER, AND SEWER PROVIDER: CITY OF APOPKA
FLOOD PLAIN: ELEVATION 70.3

SITE REQUIREMENTS

MINIMUM FRONT YARD SETBACK: 25' FOR SIDE ENTRY GARAGE AND 30' FOR FRONT ENTRY GARAGE
MINIMUM REAR YARD SETBACK: 20'
MINIMUM SIDE YARD SETBACK: 7.5'
MINIMUM CORNER YARD SETBACK: 25'
MINIMUM LIVING AREA(UNDER HEATING AND AIR CONDITIONING): 1,600 SQ.FT.(REQUIRED)
MAXIMUN DENSITY: 5.0 UNITS PER ACRE
DEVELOPMENT STANDARDS TO BE IN ACCORDANCE WITH THE R-2 ZONING DISTRICT
MINIMUM LOT WIDTH: 70'
MINIMUM LOT AREA: 8,000 SF
MINIMUM WIDTH OF LOT ON CURVE AT R/W: 42'(= 60% X 70)

TERMS AND CONDITIONS OF ORDINANCE NO. 2344
1. MINIMUM LOT AREA FOR A SINGLE FAMILY HOME SHALL BE 8,000 SQ. FT.
2. MINIMUM LIVABLE AREA FOR A SINGLE FAMILY DWELLING UNIT IS 1,350 SQ. FT OR AS OTHERWISE DETERMINED BY CITY COUNCIL AT ITS REVIEW OF THE MASTER SITE PLAN.
3. MINIMUM LOT WIDTH FOR A SINGLE FAMILY HOME SHALL BE 70 FT.
4. THE STANDARD SETBACKS FOR THE R-2 ZONING DESIGNATION WILL APPLY.
5. OPEN SPACE STANDARDS ESTABLISHED FOR THE R-2 ZONING CATEGORY SHALL APPLY TO THE PROPERTY.
6. NO DUPLEXES WILL BE ALLOWED TO BE BUILT ON THE PROPERTY.
7. UNLESS OTHERWISE ADDRESSED WITHIN THE PLANNED UNIT DEVELOPMENT STANDARDS DESCRIBED HEREIN, THE R-2 ZONING STANDARDS WILL APPLY TO THE SUBJECT PROPERTY.
8. AN APPLICATION FOR A PRELIMINARY DEVELOPMENT PLAN OR MASTER SITE PLAN SHALL NOT BE APPROVED BY THE CITY UNTIL SCHOOL CAPACITY ENHANCEMENT DETERMINATION OR MITIGATION AGREEMENT HAS BEEN OBTAINED FROM ORANGE COUNTY PUBLIC SCHOOLS.

LEGAL DESCRIPTION (PER BISHMAN SURVEY, INC.):

(OFFICIAL RECORDS BOOK 3252, PAGE 447)

COMMENCE AT THE SOUTHEAST CORNER OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 28 EAST; THENCE RUN NORTH 00 DEGREES 10 MINUTES 51 SECONDS EAST ALONG THE EAST LINE OF SAID NORTHEAST 1/4 A DISTANCE OF 30.00 FEET TO A POINT ON THE NORTHERLY RIGHT-OF-WAY LINE OF MARSHALL LAKE ROAD; THENCE RUN SOUTH 89 DEGREES 23 MINUTES 53 SICONDS WEST ALONG SAID NORTHERLY RIGHT-OF-WAY LINE A DISTANCE OF 842.14 FEET FOR "HE POINT OF BEGINNING; THENCE CONTINUE SOUTH 89 DEGREES 23 MINUTES 53 SECCNDS WEST ALONG SAID NORTHERLY RIGHT-OF-WAY LINE A DISTANCE OF 227.98 FEET TO THE NORTHWESTERLY CORNER OF SAID RIGHT-OF-WAY; THENCE RUN SOUTH 0C DEGREES 14 MNUTES 09 SECONDS WEST ALONG THE WESTERLY LINE OF SAID RIGHT-OF-WAY A DISTANCE OF 30.00 FEET TO A POINT ON THE SOUTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 8; THENCE RUN SOUTH 89 DEGREES 23 MINUTES 53 SECONDS WEST ALONG SAID SOUTH LINE A DISTANCE OF 906.35 FEET TO THE SOUTHWEST CORNER OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 8 A DISTANCE OF 1330.25 FEET TO THE NORTHWEST CORNER OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 8, SAID POINT ALSO BEING A POINT ON THE NORTH LINE OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 OF SAID SECTION 8; THENCE RUN SOUTH 89 DEGREES 58 MINUTES 25 SECONDS EAST ALONG SAID NORTH LINE OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 A DISTANCE OF 658.12 FEET TO THE NORTHEAST CORNER OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 8; THENCE LEAVING SAID NORTH LINE OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 RUN SOUTH 09 DEGREES 47 MINUTES 14 SECONDS EAST A DISTANCE OF 430.95 FEET; THENCE RUN SOUTH 14 DEGREES 54 MINUTES 18 SECONDS EAST A DISTANCE OF 235.52 FEET; THENCE RUN SOUTH 21 DEGREES 13 MINUTES 28 SECONDS EAST A DISTANCE OF 343.75 FEET; THENCE RUN SOUTH 37 DEGREES 28 MINUTES 46 SECONDS EAST A DISTANCE OF 278.31 FEET; THENCE RUN SOUTH 24 DEGREES 13 MINUTES 23 SECONDS EAST A DISTANCE OF 103.56 FEET TO A POINT ON THE AFORESAID NORTHERLY RIGHT-OF-WAY LINE OF MARSHALL LAKE ROAD AND THE POINT OF BEGINNING.

CONTAINS 25.384 ACRES MORE OR LESS.

James A. Fraser, State of Florida, Professional Engineer, License No. 56867. This item has been digitally signed and sealed by James A. Fraser, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Jim A Fraser

Digitally signed by Jim A Fraser
Date: 2023.08.03 09:43:10 -04'00'

SITE CONSTRUCTION NOTES:

1. CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMED WORK ON THIS PROJECT.

2. THE OWNER, THE STATE, THE CITY AND THE COUNTY SHALL NOT BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.

3. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT OR THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE CONSENT OF THE OWNER.

4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES, ORDINANCES AND STANDARDS SPECIFICATIONS OF ALL GOVERNING AGENCIES.

5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AS REQUIRED FOR CONSTRUCTION OF THIS PROJECT.

6. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR A PERIOD SPECIFIED BY THE LOCAL MUNICIPALITY (MINIMUM OF ONE YEAR) FROM THE DATE OF WRITTEN ACCEPTANCE FROM THE OWNER. THE CONTRACTOR SHALL REPLACE / REPAIR ALL SUBSTANDARD WORK AT NO COST TO THE OWNER.

7. CONTRACTOR TO VERIFY THAT THE PLANS AND SPECIFICATIONS ARE THE LATEST APPROVED PLANS AND ALL ITEMS CONSTRUCTED BY THE CONTRACTOR USING NON-APPROVED PLANS SHALL BE REDONE AT THE CONTRACTOR'S EXPENSE.

8. THE CONTRACTOR SHALL SEEK CLARIFICATION IN WRITING FROM THE DESIGN ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION IF CONFLICTS ARE ENCOUNTERED BETWEEN THE APPROVED PLANS AND SPECIFICATIONS ETC.

9. ALL CONSTRUCTION METHODS AND OPERATIONS MUST BE DONE IN SUCH A MANNER AS TO PROTECT ALL ADJACENT EXISTING BUILDINGS AND SITE ELEMENTS. ANY EXISTING ELEMENTS DAMAGED, DURING CONSTRUCTION MUST BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

10. THE CONTRACTOR SHALL MAINTAIN ONE CLEAN SET OF MARKED PLANS SHOWING ALL CHANGES TO THE PERMITTED PLANS. UPON COMPLETION OF PROJECT, THE CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS TO THE ENGINEER SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR IN THE STATE OF FLORIDA.

11. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. THE CONTRACTOR SHALL CALL THE FLORIDA SUNSHINE STATE ONE CALL CENTER, INC., AT 1-800-432-4770 IN ORDER TO HAVE EXISTING UTILITY LOCATIONS IDENTIFIED/MARKED AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES. IN ADDITION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES AND TO MAKE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF SAID UTILITIES WITH THE OWNER OF THE UTILITY.

12. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING THE RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAKAGE OR DAMAGE TO ANY UTILITY LINE OR APPURTENANCES OR THE INTERRUPTION OF THEIR SERVICE. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

GRADING AND DRAINAGE NOTES:

1. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION OR PROVIDE ALL SUITABLE FILL MATERIAL AS APPROVED BY THE SOILS ENGINEER. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR THE RELATED ITEMS.

2. THE CONTRACTOR SHALL NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAKAGE OR DAMAGE TO ANY UTILITY LINE OR APPURTENANCES OR THE INTERRUPTION OF THEIR SERVICE. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

3. UNLESS NOTED OTHERWISE, GRADES ARE AT THE GUTTER / ASPHALT ELEVATION.

4. THE LOCATION OF UNDERGROUND FACILITIES OR STRUCTURES SHOWN ARE BASED UPON AVAILABLE RECORDS AT THE TIME THE PLANS WERE PREPARED AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND / OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXTENT AND EXACT LOCATION OF THEIR FACILITIES BEFORE BEGINNING WORK. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF THESE FACILITIES DURING THE COURSE OF THE WORK.

5. ALL PAVEMENT DAMAGED BY CONTRACTOR'S OPERATIONS MUST BE REPAVED TO MATCH EXISTING PAVEMENT SECTION (SEE DRAWING). ALL PAVEMENT MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

6. SITE CONTRACTOR TO BE RESPONSIBLE FOR GRADING WITHIN LANDSCAPE AREAS. GRADE WITHIN THESE AREAS TO BE AT OR ABOVE GRADE AT NEAREST BACK OF CURB OR SIDEWALK. ALL LANDSCAPE AREAS TO BE GRADED WITH CLEAN FILL, ABSENT OF ANY PAVEMENT BASE MATERIALS.

7. ALL SUBGRADE BENEATH PROPOSED BUILDING AND PAVEMENT SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND BE NOT LESS THAN 95 % MAXIMUM DRY DENSITY (MODIFIED PROCTOR) PER ASTM D-1557-78. (TO DEPTHS OF 3 FEET BELOW BUILDING AND 2 FEET BELOW PAVEMENT.

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM WITH THE STANDARDS AND SPECIFICATIONS SET FORTH BY LOCAL, STATE AND FEDERAL REGULATIONS, WHICHEVER IS MORE STRINGENT SHALL APPLY.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUIRE THE NECESSARY RIGHT-OF-WAY PERMIT(S) AND PROVIDE FOR THE SAFETY AND CONTROL OF TRAFFIC DURING CONSTRUCTION.
3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN-HAND BEFORE BEGINNING ANY CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING (HORIZONTALLY AND VERTICALLY) ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND FOR NOTIFYING VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, TEMPORARY DISTRIBUTION SERVICE, OR CLARIFICATION OF ACTIVITY REGARDING SAID UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
5. THE LOCATION OF ALL EXISTING UTILITIES, STORM DRAINAGE SYSTEMS, AND TOPOGRAPHIC FEATURES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR INACCURACY. SHOULD A DISCREPANCY ARISE BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, WHICH WOULD APPRECIABLY AFFECT THE EXECUTION OF THESE PLANS, THE CONTRACTOR WILL HALT CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY WITHIN 48 HOURS BEFORE ANY INSPECTIONS. ALSO THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL INSPECTION CRITERIA, SCHEDULES AND SIGNING SAID INSPECTIONS.
7. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL NOT EXCAVATE REMOVE OR OTHERWISE DISTURB ANY MATERIAL, STRUCTURE OR PART OF A STRUCTURE WHICH IS LOCATED OUTSIDE THE LINES, GRADES OR GRADING SECTION, ESTABLISHED FOR THE PROJECT, EXCEPT WHERE SUCH EXCAVATIONS OR REMOVAL IS PROVIDED OR IN THE CONTRACT, PLANS, OR SPECIFICATIONS.
9. ALL WORK AND ALL MATERIALS FURNISHED SHALL BE IN CONFORMITY WITH THE LINES, GRADES , GRADING SECTIONS, CROSS SECTIONS, DIMENSIONS, MATERIAL REQUIREMENTS, AND TESTING REQUIREMENTS THAT ARE SPECIFIED IN THE CONTRACT, PLANS OR SPECIFICATIONS.
10. PROVIDE A MINIMUM OF 3 FT COVER FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
11. COMPACT ALL UTILITIES TRENCHES WITHIN ROADWAYS TO 98% OF THE PROCTOR MAXIMUM DENSITY.
12. THE SPECIFICATIONS, NOTES AND PLANS CALL ATTENTION TO CERTAIN REQUIRED FEATURES OF THE CONSTRUCTION BUT DO NOT PURPORT TO COVER ALL DETAILS OF DESIGN AND CONSTRUCTION. HOWEVER, THE CONTRACTOR SHALL FURNISH AND INSTALL THE WORKS IN ALL DETAILS AND READY FOR OPERATION.
13. ALL EQUIPMENT SHALL BE HANDLED, STORED, INSTALLED, TESTED AND OPERATED IN STRICT ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S WRITTEN INSTRUCTIONS.
14. ALL WORK SHALL BE ACCOMPLISHED TO THE HIGHEST QUALITY CRAFTSMANSHIP STANDARDS.
15. ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES ORDINANCES REGULATIONS.
16. APPARENT ERRORS, DISCREPANCIES OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO BIDDING.
17. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TO THE CITY, A COMPLETED ASBUILT ONE WEEK BEFORE FINAL INSPECTION. BEFORE THE FINAL ACCEPTANCE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A SITE CLEANUP FOR THE REMOVAL OF TRASH, DEBRIS, EXCESS MATERIALS AND EQUIPMENT TO PRESENT THE PROJECT SITE CLEAN AND IN GOOD ORDER.
18. NO EXTRA PAYMENTS SHALL BE ALLOWED FOR ANY WORK REQUIRED DUE TO MISUNDERSTANDING OF JOB OR SITE CONDITIONS AFFECTING THE WORK AS DESCRIBED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATION AS MAY BE DEEMED NECESSARY FOR THE FULFILLMENT OF THE INTENT OF THE CONTRACTS DOCUMENTS. THE TENDERING OF A PROPOSAL WILL ACKNOWLEDGE ACCEPTANCE OF THESE CONDITIONS BY THE BIDDER.
19. THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF DETAILED SHOP DRAWINGS OF ALL MAJOR ITEMS PROPOSED FOR THIS PROJECT TO THE ENGINEER PRIOR TO ORDERING ANY OF THE EQUIPMENT. TWO (2) COPIES OF THE SHOP DRAWINGS WILL BE RETURNED TO THE CONTRACTOR. UPON THE CONTRACTOR'S RECEIPT OF APPROVED SHOP DRAWINGS FROM THE ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE WORK.
20. INSTALL VALVE BOXES WITH ALL VALVES. VALVE BOXES UNDER THE PAVEMENTS SHALL HAVE TRAFFIC BEARING COVERS.
21. SEPARATION OF WATER MAINS, SANITARY SEWERS & STORM SEWERS SHALL BE AS PER THE RECOMMENDATIONS OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST REQUIREMENTS.

A. UTILITY SEPARTION-VERTICAL CLEARANCE
WHERE WATER AND GRAVITY SANITARY SEWER MAINS CROSS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE OR THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SANITARY SEWER SHALL BE 20 FEET OF PVC UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED TO AWWA C900/ASTM 1784
WHERE WATER MAINS AND STORM SEWERS PIPES CROSS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE WATER MAIN SHALL BE 20 FEET OF DUCTILE IRON PIPE CENTERED ON THE POINT OF CROSSING.

B. UTILITY SEPARATION-HORIZONTAL SEPARATION
WHEN A WATER MAIN PARALLELS A GRAVITY SANITARY SEWER MAIN, A SEPARATION (MEASURED EDGE TO EDGE) OF AT LEAST 10 FEET SHOULD BE MAINTAINED. WHERE THIS SEPARATION IS NOT MET, ONE OF THE FOLLOWING MUST OCCUR:
1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, OR;
2. IF BOTH SANITARY SEWER AND POTABLE WATER MAINS ARE PROPOSED AND ABOVE (1) IS NOT MET, THE SANITARY SEWER PIPES SHALL BE UPGRADED TO THE EQUIVALENT PIPE MATERIAL AS THE WATER MAIN AND PRESSURE TESTED. DUCTILE IRON SHALL NOT BE USED FOR SANITARY SEWER UNLESS APPROVED BY THE DIRECTOR.
3. IF THE SANITARY SEWER IS EXISTING AND THE POTABLE WATER MAIN IS PROPOSED, THE WATER MAIN SHALL, AT A MINIMUM, BE UPGRADED TO DUCTILE IRON PIPE, CONSTRUCTED IN SEPARATE TRENCHES, LAID AT A HIGHER ELEVATION THAN THE SANITARY SEWER, AND UTILIZE STAGGERED JOINTS.

C. FORCE MAINS
SEPARATION BETWEEN FORCE MAIN AND WATER MAINS MUST BE MAINTAINED UNLESS APPROVED BY FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

D. SEWER MANHOLES
NO WATER PIPES SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE.

22. WATER MAIN MATERIALS:

A. PVC PIPE: PVC PIPE OF NORMAL DIAMETER OF FOUR (4) THROUGH TWELVE ((12) INCHES SHALL BE (BLUE) AWWA STANDARD C900, CLASS 150, DR 18. AND SHALL BEAR THE NSF LOGO FOR POTABLE WATER USE. AND MUST MEET THE REQUIREMENTS OF ASTM D-1784.

B. DUCTILE IRON PIPE: DUCTILE IRON PIPE FOR WATER MAIN FOR PIPE SIZES OF FOUR (4) THOUGH FIFTY (50) INCHES SHALL CONFORM TO ANSI/AWWA A21.51/C151. A MINIMUM OF CLASS PRESSURE CLASS 250 MINIMUM RATING UNLESS OTHERWISE NOTED.

C. PVC WATER MAIN JOINTS:
1. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH ON TYPE JOINTS CONFORMING TO ASTM D3139.
2. JOINTS FOR DUCTILE IRON PIPE AND FITTING JOINTS SHALL BE PUSH-ON OR MECHANICAL JOINTS CONFORMING TO ANSI/AWWA A21.11/C111. WHERE CALLED FOR IN THE PLANS, RESTRAINED OR FLANGED JOINTS SHALL BE PROVIDED. FLANGED JOINTS SHALL CONFORM TO ANSI STANDARD B16.1-125LB. RESTRAINED JOINTS SHALL CONFORM TO NOTE 31 OF THIS SHEET.

D. PVC AND DUCTILE IRON PIPE WATER MAIN FITTINGS:
1. ANY FITTINGS REQUIRED SHALL BE MECHANICAL JOINT DUCTILE IRON OR GREY IRON CONFORMING TO ANSI/AWWA A21.10/C110, 25 PSI MINIMUM PRESSURE RATING, OR DUCTILE IRON COMPACT FITTINGS FOUR (4) THROUGH TWELVE (12) INCHES IN ACCORDANCE WITH ANSI/AWWA A21.53/C153.

E. SERVICE PIPE, STOPS AND FITTINGS:
1. SERVICE PIPE:
ALL SERVICE LINES SHALL BE 1", 1-1/2" OR 2" POLYETHYLENE TUBING. WITH NSF LOGO FOR POTABLE WATER USE, AND MUST CONFORM TO SPECIFICATION IN AWWA C800 AND AWWA C901.
2. STOPS:
CORPORATION STOPS SHALL BE 1", 1-1/2" OR 2" BRASS, EQUIPPED WITH CONNECTIONS COMPATIBLE WITH THE POLYETHYLENE TUBING AND THREADED IN ACCORDANCE WITH SPECIFICATIONS IN AWWA C800 AND AWWA C901. CURB STOPS SHALL BE SIZED TO MATCH THE METER SIZE AND CONFORM TO THE SPECIFICATIONS IN AWWA C800 AND AWWA C901.
3. FITTINGS:
FITTINGS SHALL BE BRASS, CAST AND MACHINED IN ACCORDANCE WITH SPECIFICATIONS IN AWWA C800 AND AWWA C901.WITH COMPATIBLE POLYETHYLENE TUBING CONNECTIONS.
4. SERVICE SADDLES:
A SERVICE SADDLE SHALL BE USED FOR ALL SERVICE LINE TRAPS. SERVICE SADDLES SHALL BE DOUBLE STRAP, ANCHORED BY A MINIMUM FOUR (4) BOLT PATTERN ON A DUCTILE IRON SADDLE BODY. SERVICE SADDLES FOR PVC PIPES SHALL HAVE THE DOUBLE STRAP SIZED EXACTLY TO THE PIPE OUTSIDE DIAMETER. SEALING GASKETS SHALL BE BUNA-N RUBBER AND STRAPS SHALL BE CORROSION RESISTANT ALLOY STEEL.
THE CITY MAY REQUIRE A STAINLESS STEEL STRAP AND FUSION EPOXY OR NYLON COATED DUCTILE IRON BODY WITH STAINLESS STEEL HARDWARE IN AREAS DESIGNATED AS CORROSIVE.

F. MARKING FOR WATERMAIN:
ALL NON-METALLIC WATERMAINS SHALL BE INSTALLED WITH A CONTINUOUS, 10 GAUGE INSULATED SINGLE STRAND COPPER WIRE RATED 600V FOR DIRECT BURY INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. IN ADDITION ALL PVC WATERMAINS SHALL BE EITHER A SOLID BLUE COLOR OR WHITE WITH BLUE LETTERING. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.
ALL DUCTILE IRON WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE BLUE IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION.

23. SANITARY PIPE MATERIALS:

A. PVC GRAVITY SEWER PIPE:
PVC GRAVITY SEWER PIPE (4"-15"), ASTM D3034, SDR 35. UNIFORM MINIMUM "PIPE STIFFNESS" OF AT LEAST (5) PERCENT DEFLECTION SHALL BE 46 PSI. THE JOINTS SHALL BE INTEGRAL BELL ELASTOMERIC GASKET JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. APPLICABLE LINE-BELL PVC PIPE ASSOCIATION STANDARD IS UNI-B-4. ALL PVC PIPE SHALL BEAR THE NSF-DW SEAL. THE MINIMUM STANDARD LENGTH OF THE PIPE SHALL BE THIRTEEN (13) FEET.

B. DIP (DUCTILE IRON) SEWER PIPE:
DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA A21.51/C151, CLASS THICKNESS DESIGNED PER ANSI/AWWA A21.51/C151, WITH MECHANICAL OR PUSH ON JOINTS. AN INTERIOR PROTECTIVE LINING OF COAL TAR EPOXY SHALL BE PROVIDED WITH A MINIMUM DRY THICKNESS OF 30 MILS. DUCTILE IRON GRAVITY SEWERS, WHERE CALLED FOR BY THE CITY, SHALL BE WRAPPED WITH POLYETHYLENE FILM, AWWA C105. THE MINIMUM STANDARD LENGTH OF PIPE SHALL BE EIGHTEEN (18) FEET. (DUCTILE IRON SHALL NOT BE USED FOR SANITARY SEWER UNLESS APPROVED BY THE DIRECTOR)

C. PIPE MARKINGS:
ALL PIPE SHALL HAVE A HOMING MARK ON THE SPIGOT PROVIDED BY THE MANUFACTURER ON FIELD CUT PIPE. CONTRACTOR SHALL PROVIDE HOMING MARK ON THE SPIGOT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

D. JOINT MATERIALS;
1. PVC PIPE: PVC SEWER PIPE JOINTS SHALL BE FLEXIBLE ELASTOMERIC SEALS PER ASTM D3212.
2. DUCTIL IRON PIPE: DUCTILE IRON PIPE AND FITTING JOINTS SHALL BE "PUSH-ON" OR MECHANICAL JOINTS CONFORMING TO ANSI A21.11.

E. FITTINGS;
ALL FITTINGS SHALL BE THE SAME MATERIAL AS THE PIPE.

24. FORCEMAINS:

A. PVC PIPE: PVC PIPE OF NORMAL DIAMETER OF FOUR (4) THROUGH TWELVE (12) INCHES SHALL BE GREEN AWWA C900, CLASS 150 DR 25 OR CLASS 100 DR 21 AND MUST MEET THE REQUIREMENTS OF ASTM D-1784.

B. DUCTILE IRON PIPE: DUCTILE IRON PIPE FOR FORCE MAINS FOR PIPE SIZES OF FOUR (4) THROUGH FIFTY FOUR (54) INCHES SHALL CONFORM TO ANSI/AWWA A21.51/C151. A MINIMUM OF PRESSURE CLASS 250 MINIMUM RATING UNLESS OTHERWISE NOTED. (DUCTILE IRON SHALL NOT BE USED FOR FORCE MAIN UNLESS APPROVED BY THE DIRECTOR)

C. FORCEMAIN JOINTS:
1. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH-ON TYPE JOINTS CONFORMING TO ASTM D3139.
2. JOINTS FOR DUCTILE IRON PIPE AND FITTING SHALL BE THE SAME AS IN NOTE 22-C.2 OF THIS SHEET.

D. FORCEMAIN FITTINGS:
1. FORCEMAIN FITTING FOR PVC AND DIP SHALL BE THE SAME AS IN NOTE 22-D.1 OF THIS SHEET.

F. MARKING FOR FORCEMAIN:
ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, 10 GAUGE INSULATED SINGLE STRAND COPPER WIRE RATED 600V FOR DIRECT BURY INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. IN ADDITION ALL PVC FORCEMAINS SHALL BE EITHER A SOLID GREEN COLOR OR WHITE WITH GREEN LETTERING. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.
ALL DUCTILE IRON FORCE MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE GREEN IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION.

25. RECLAIMED WATERMAINS:

A. PVC PIPE: PVC PIPE OF NORMAL DIAMETER OF FOUR (4) THROUGH TWELVE (12) SHALL BE LAVENDER AWWA C900, CLASS 150, SDR 18 AND MUST MEET THE REQUIREMENTS OF ASTM D-1784.

B. DUCTILE IRON PIPE: DUCTILE IRON PIPE FOR RECLAIMED WATER FOR PIPE SIZES OF FOUR (4) THROUGH FIFTY FOUR (54) INCHES SHALL CONFORM TO ANSI/AWWA A21-51/C151. A MINIMUM OF PRESSURE CLASS 250 MINIMUM RATING UNLESS OTHERWISE NOTED. TO ASTM D3139

C. RECLAIMED MAIN JOINT:
1. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH-ON TYPE JOINTS CONFORMING TO ASTM D3139
2. JOINTS FOR DUCTILE IRON PIPE AND FITTING SHALL BE THE SAME AS IN NOTE 24-C.2 OF THIS SHEET.

D. RECLAIMED MAIN FITTINGS:
1. RECLAIMED MAIN FITTING FOR PVC AND DIP SHALL BE THE SAME AS IN NOTE 22-D.1 OF THIS SHEET.

F. MARKING FOR RECLAIMED WATER MAIN:
ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, 10 GAUGE INSULATED SINGLE STRAND COPPER WIRE RATED 600V FOR DIRECT BURY INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. IN ADDITION ALL PVC FORCEMAINS SHALL BE EITHER A SOLID PURPLE COLOR OR WHITE WITH PURPLE LETTERING. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.
ALL DUCTILE IRON FORCE MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE PURPLE IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION.

26. THE CONTRACTOR SHALL COMPLY WITH THE LEGAL LOAD RESTRICTIONS IN HAULING OF MATERIALS IN PUBLIC ROADS BEYOND THE LIMITS OF WORK. A SPECIAL PERMIT WILL NOT RELIEVE THE CONTRACTOR OF LIABILITY FOR DAMAGE WHICH MAY RESULT FROM THE MOVING OF MATERIAL AND EQUIPMENT.
27. DURING CONSTRUCTION, NO DIRECT DISCHARGE OF WATER TO DOWNSTREAM RECEIVING WATERS WILL BE ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER QUALITY, AND ROUTE DISCHARGE WATER IN SUCH A MANNER AS TO ADEQUATELY REMOVE SILT PRIOR TO RUNOFF FROM THE SITE.
28. VALVES:

A. BUTTERFLY VALVES ARE REQUIRED ON LINES BEING 16" OR GREATER.
B. VALVES 2" AND SMALLER: VALVES SHALL BE BRONZE, WEDGE, DISC, NON-RISING STEM TYPE, 150 PSI MINIMUM WORKING PRESSURE, EQUIPPED WITH WROUGHT STEEL, ALUMINUM OR CAST IRON HANDWHEELS. ALL VALVES SHALL MEET FEDERAL SPECIFICATIONS WWV54D, TYPE 1, CLASS A VALVES SHALL BE FIGURE 3FG AS MANUFACTURED BY AMERICAN VALVE COMPANY OR APPROVED EQUAL.
C. VALVE BOXES: UNITS SHALL BE SCREW TYPE, CAST IRON. MINIMUM DIAMETER OF 5" WITH COVER CAST WITH THE APPLICABLE INSCRIPTION IN LEGIBLE LETTERING ON THE TOP "WATER". VALVE BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE DOMESTIC ONLY AND SHALL BE MANUFACTURED BY TYLER COMPANY OR APPROVED EQUAL.
D. WASTEWATER AIR/VACUUM-RELEASE VALVE: THE VALVE BODY SHALL BE OF CAST IRON ASTM A126-B; THE FLOAT, FLOOD GUIDE AND STEM SHALL BE OF STAINLESS STEEL TYPE 304. THE RESILIENT SEAT SHALL BE OF BUNA-N THE VALVE SHALL BE SUITABLE FOR 150 PSIG WORKING PRESSURE. VALVE SHALL BE STANDARD TWO (2) INCH NPT INLET AND OUTLET PORTS.
E. RESILIENT SEAT GATE VALVES: VALVES SHALL BE RESILIENT SEAT WEDGE TYPE. VALVES SHALL BE FURNISHED WITH O-RING STEM SEALS USING 2 O-RINGS LOCATED ABOVE AND 1 O-RING LOCATED BELOW THE THRUST COLLAR. O-RINGS SHALL BE SET IN THE GROOVES IN THE STEM. INTERNAL AND EXTERNAL SURFACES OF THE VALVE BODY AND BONNET SHALL BE COATED WITH EPOXY TO AWWA C550 STANDARDS. GATES FOR ALL VALVE SIZES SHALL BE COMPLETELY ENCAPSULATED IN RUBBER INCLUDING THE STEM BORE. VALVES SHALL BE CAPABLE OF INSTALLATION IN ANY POSITION WITH RATED SEALING IN BOTH DIRECTIONS. VALVES SHALL BE STYLE 3067 AS MANUFACTURED BY M&H VALVE COMPANY OR EQUAL.
F. RESILIENT TAPPING VALVES: VALVES SHALL BE FURNISHED WITH THE DESIGN TAPPING FLANGE HAVING A RAISED FACE OR LIP DESIGNED TO ENGAGE THE CORRESPONDING RECESS IN THE TAPPING SLEEVE IN ACCORDANCE WITH MSS SP60. TAPPING VALVES WITHOUT THE RAISED FACE ON THE TAPPING FLANGE ARE NOT PERMITTED SINCE THEY DO NOT ACCOMMODATE PROPER ALIGNMENT REQUIRED TO PREVENT DAMAGE BY A MISALIGNED SHELL CUTTER. THE INTERIOR OF THE WATERWAY IN THE BODY SHALL BE FULL OPENING AND CAPABLE OF PASSING A FULL SIZED BODY SHELL CUTTER EQUAL TO THE NOMINAL DIAMETER OF THE VALVE SHALL BE METROSEAL AS MANUFACTURED BY U.S. PIPE OR APPROVED EQUAL.
G. BUTTERFLY VALVES (BFV): VALVES SHALL BE CAST OR DUCTILE IRON BODY ALLOY, CAST IRON OR DUCTILE IRON DISC. VALVE SEAT SHALL BE 18-8 STAINLESS STEEL MADE INTEGRAL WITH THE VALVE BODY, SHAFT SIZE AND OTHER SPECIAL REQUIREMENTS SELECTED IN ACCORDANCE WITH THE SPECIFIC DESIGN AND SHALL COMPLY WITH PROVISIONS OF AWWA C504 RUBBER-SEATED BUTTERFLY VALVES". VALVE OPERATIONS SHALL BE APPROVED GEAR ACTUATORS, WITH SEALED ENCLOSURES FOR BURIED OR SUBMERGED SERVICE. UNITS SHALL BE EQUIPPED WITH ACTUATING NUTS, CAST IRON HANDWHEELS OR CHAIN OPERATORS WITH GALVANIZED STEEL CHAINS, AS APPROPRIATE FOR THE INSTALLATION. VALVES SHALL BE STYLE 450 AS MANUF

NORTH

GRAPHIC SCALE

100 0 50 100 200 400

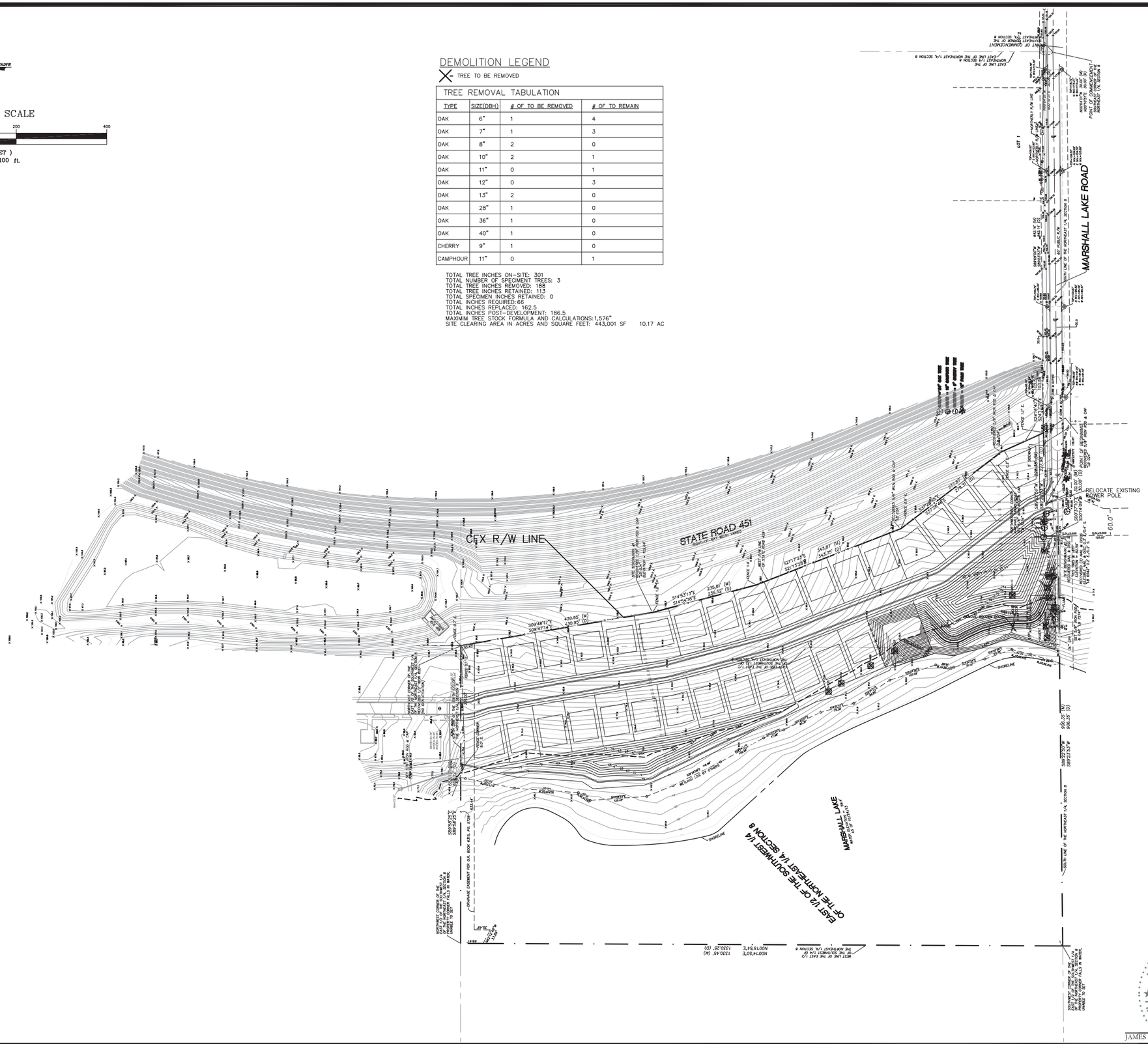
(IN FEET)
1 inch = 100 ft.

DEMOLITION LEGEND

TREE TO BE REMOVED

TREE REMOVAL TABULATION			
TYPE	SIZE(DBH)	# OF TO BE REMOVED	# OF TO REMAIN
OAK	6"	1	4
OAK	7"	1	3
OAK	8"	2	0
OAK	10"	2	1
OAK	11"	0	1
OAK	12"	0	3
OAK	13"	2	0
OAK	28"	1	0
OAK	36"	1	0
OAK	40"	1	0
CHERRY	9"	1	0
CAMPHOUR	11"	0	1

TOTAL TREE INCHES ON-SITE: 301
TOTAL NUMBER OF SPECIMENT TREES: 3
TOTAL TREE INCHES REMOVED: 188
TOTAL TREE INCHES RETAINED: 113
TOTAL SPECIMEN INCHES RETAINED: 0
TOTAL INCHES REQUIRED:66
TOTAL INCHES REPLACED: 162.5
TOTAL INCHES POST-DEVELOPMENT: 186.5
MAXIMIM TREE STOCK FORMULA AND CALCULATIONS:1,576"
SITE CLEARING AREA IN ACRES AND SQUARE FEET: 443,001 SF 10.17 AC



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CERTIFICATE OF AUTHORIZATION #25899

FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

EXISTING CONDITIONS PLAN

REVISIONS

No.	Date	Description
1.		
2.		
3.		
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5.		
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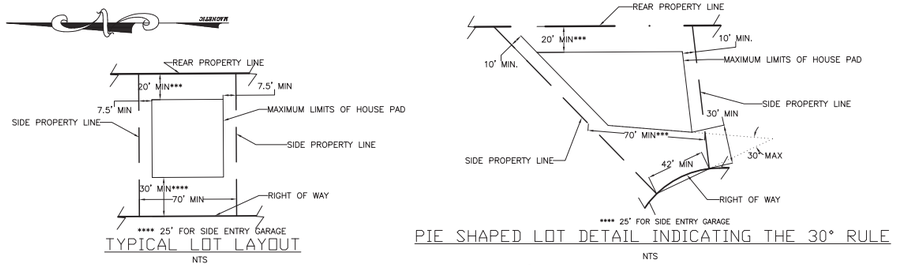
DESIGNED BY:	JAF
DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	1"=100

SHEET NO.

C-2

JAMES A. FRASER LICENSE No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES A. FRASER, PE #58030



TYPICAL LOT LAYOUT

NTS

*** THE REAR SETBACKS OF LOT 30 AND 31 HAVE BEEN INCREASED TO ELIMINATE THE CONFLICT WITH THE FEMA FLOOD PLAIN SHAPE FILE. ONCE A LOMR HAS BEEN APPROVED FOR THIS PROJECT THE REAR SETBACKS FOR LOTS 30 AND 31 MAY BE REDUCED TO 20'.

PIE SHAPED LOT DETAIL INDICATING THE 30° RULE

NTS

STATE ROAD 451
RIGHT-OF-WAY WIDTH VARIES

PROPERTIES TO THE EAST SR 451 R/W

EASTERN PROPERTY LINE= SR 451 R/W

SITE BENCHMARK #1 RECOVERED 5/8" IRON ROD & CAP ELEVATION = 102.64'

WEST R/W LINE OF STATE ROAD 439

SHADED AREA INDICATES AREAS OF THE EASEMENTS(TYP)

PROPOSED 10' WALL AND DRAINAGE EASEMENT FOR LOTS 8-10

PROPOSED 15' WALL AND DRAINAGE EASEMENT FOR LOTS 11-16

*EASEMENT TO BE DEDICATED TO THE HOA WITH MAINTENANCE RESPONSIBILITES FOR EASEMENT DEDICATED TO THE HOA.

PROPOSED 10' WALL AND DRAINAGE EASEMENT FOR LOTS 17 AND 18

PROPOSED 5' DRAINAGE EASEMENT FOR LOTS 1-7

BUFFER TRACT B-1
1266 SF

LOT 1 9777 SF
LOT 2 8050 SF
LOT 3 8050 SF
LOT 4 8050 SF
LOT 5 9049 SF
LOT 6 8000 SF
LOT 7 8000 SF
LOT 8 8000 SF
LOT 9 8000 SF
LOT 10 8360 SF
LOT 11 8000 SF
LOT 12 8000 SF
LOT 13 8899 SF
LOT 14 8000 SF
LOT 15 8000 SF
LOT 16 8000 SF
LOT 17 8000 SF
LOT 18 11224 SF
LOT 19 10731 SF
LOT 20 8050 SF
LOT 21 8050 SF
LOT 22 8050 SF
LOT 23 8050 SF
LOT 24 8050 SF
LOT 25 8319 SF
LOT 26 8050 SF
LOT 27 8050 SF
LOT 28 8604 SF
LOT 29 8193 SF
LOT 30 8050 SF
LOT 31 8050 SF

10' DRAINAGE EASEMENT

RALPH POE DRIVE

POND 1 TRACT D-1
60895 SF

POND 2 TRACT D-2
46348 SF

PARK TRACT P-1
12600 SF

CONSERVATION TRACT C-1
655053 SF

CONSERVATION AREA MARKER(TYP.) PLACED EVERY 100' MIN. ALONG CONSERVATION TRACT LINE STATING "CONSERVATION AREA" NO CLEARING OR CONSTRUCTION IS ALLOWED IN CONSERVATION AREA

PARK TO INCLUDE A TOT LOT.
*EASEMENT TO BE DEDICATED TO THE HOA WITH MAINTENANCE RESPONSIBILITES FOR EASEMENT DEDICATED TO THE HOA.
INCREASED REAR SETBACK DIMENSIONS FOR LOTS 30 AND 31. SEE NOTE UNDER THE TYPICAL LOT LAYOUT.

PROPOSED 10' DRAINAGE EASEMENT FOR LOTS 28-31

PROPOSED 5' DRAINAGE EASEMENT FOR LOT 19

WETLAND LINE BY OTHERS

SUBJECT PROPERTY
ZONING: R-2
RESIDENTIAL LOW

PROPERTIES TO THE NORTH
ZONING: R-3
RESIDENTIAL LOW

PROPERTIES TO THE SOUTH
ZONING: PUD-MIXED EC
RESIDENTIAL LOW

PROPERTIES TO THE WEST
ZONING: R-3
RESIDENTIAL LOW

MARSHALL LAKE
WATER ELEVATION = 59.4'
AS OF 10/24/13

EAST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, SECTION 8

SOUTH LINE OF THE NORTHEAST 1/4, SECTION 8

NORTH LINE OF THE SOUTH 1/2 OF THE NORTHEAST 1/4, SECTION 8

NORTHWEST CORNER OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, SECTION 8 PROPERTY CORNER FALLS IN WATER. UNABLE TO SET

DRAINAGE EASEMENT PER O.R. BOOK 6315, PG. 5728

SITE BENCHMARK #2 RECOVERED NAIL & DISC "PCS 1985 'A' 1ST" ELEVATION = 82.59' RECOVERED (2) NAIL & DISCS ILLEGIBLE NAIL & DISC 0.3' E./0.4' S. LB 6542 0.2' E./0.2' S.

SET 5/8" IRON ROD & CAP LB 7274

RECOVERED 5/8" IRON ROD & CAP LB 7274

RECOVERED 5/8" IRON ROD & CAP LB 1266

RECOVERED 5/8" IRON ROD & CAP LB 024

POINT OF BEGINNING

NORTHWEST CORNER OF THE NORTHEAST 1/4 OF SECTION 8 RECOVERED 1/2" IRON ROD (NO IDENTIFICATION)

PROPOSED 5' DRAINAGE EASEMENT FOR LOTS 1-7

FENCE 0.7' E.
FENCE 0.1' E.
FENCE 1.2' E.
FENCE 1.0' E.
FENCE 0.5' E.
FENCE 0.2' E.

FLUME

INVERT = 69.30

36" CPP

CONCRETE BLOCK HEADWALL

S37°28'45"E 277.87' (M) 278.31' (D)
S21°17'23"E 343.87' (M) 343.75' (D)
S14°53'13"E 235.81' (M) 235.52' (D)
S09°47'14"E 430.95' (M) 430.95' (D)
S37°28'45"E 227.98' (M)
S89°22'50"W 228.38' (M)
S89°22'50"W 906.35' (M) 906.35' (D)
S89°23'53"W
S89°58'25"E 658.12' (M) 658.12' (D)
S89°58'25"E 633.44'
S00°37'10"E 30.00' (M) 30.00' (D)
S00°14'09"W
S00°04' WHITE STOP BAR
S.R.451 STOP SIGN
S00°37'10"E 125.00'
S00°37'10"E 60.0'

N89°27'48"W 33.89'

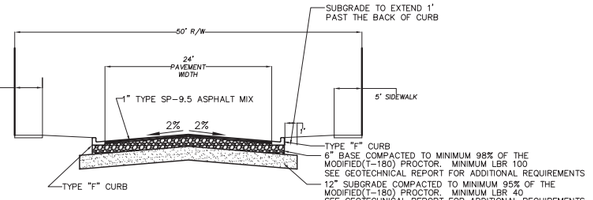
GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

SYMBOL LEGEND

	MITERED END SECTION
	CURB INLET
	STORM PIPE
D	DRAINAGE MANHOLE
S	SANITARY MANHOLE
	PIPE BEND
	TEE
V	WATER MAIN
FH	FIRE HYDRANT
RW	RECLAIMED WATER MAIN
	RETAINING WALL



TYPICAL R/W SECTION

NOTE: THE INTERNAL ROADS ARE TO BE PUBLIC. NO ACCESS GATES ARE PROPOSED

NOTES

1. NO DUPLEXES WILL BE ALLOWED TO BE BUILT ON THE PROPERTY.
2. THE PROPOSED PARK SHALL PROVIDE BOTH PASSIVE AND ACTIVE RECREATIONAL OPPORTUNITIES.
3. ARCHITECTURAL DESIGN MUST MEET ARTICLE VI OF THE CITY'S LDC AND DEVELOPMENT DESIGN GUIDELINES.
4. LANDSCAPING AND IRRIGATION PLANS MUST BE CONSISTENT WITH SECTION 5.01 OF THE LDC.
5. LANDSCAPING AND IRRIGATION PLAN SHALL BE IN COMPLIANCE WITH WATER WISE ORDINANCE 2069 AND MUST BE STATED ON THE PLAN AS SUCH.
6. AT TIME OF FDP, AN OUTDOOR LIGHTING PLAN IS REQUIRED AND MUST MEET DEVELOPMENT DESIGN GUIDELINES SECTION 3.10.
7. THE FINAL DEVELOPMENT PLAN (FDP) SUBMITTAL SHALL INCLUDE THE NPDES MANDATED EROSION AND SEDIMENT CONTROL PLAN AND STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH FDEP'S GUIDELINES. PERIMETER CONTROL, SOURCE CONTROL, SPILL PREVENTION, SECONDARY CONTAINMENT, AND OTHER REQUIRED PLAN ELEMENTS SHALL BE DETAILED AS APPLICABLE.
8. A COPY OF THE APPROVED SJRWMD PERMIT OR A DETERMINATION OF NO PERMIT REQUIRED SHALL BE PROVIDED WITH THE FDP.
9. ALL POWER SERVICES WILL HAVE TO BE PROVIDED UNDERGROUND, NO OVERHEAD SERVICE WILL BE ALLOWED.
10. A COPY OF THE PLAT WILL BE INCLUDED IN THE FINAL DEVELOPMENT PLAN (FDP) SUBMITTAL.
11. POTABLE WATER MAIN TO BE MINIMUM 8" DIAMTER FOR NON-LOOPED SYSTEMS.
12. THE MINIMUM SIZE RECLAIMED MAIN TO BE A MINIMUM OF 4" FOR A LOOPED SYSTEM AND ONLY SERVE A MAX OF 15 LOTS. CALUCLATIONS AND DETAILS WILL BE PROVIDED WITH THE FINAL ENGINEERING SUBMITTAL.
13. ALL ROADWAYS, WATER LINE INFRASTRUCTURE AND FIRE HYDRANTS SHALL BE IN PLACE BEFORE BUILDING CONSTRUCTION MAY BEGIN.
14. FIRE HYDRANT SHALL BE MARKED WITH A BLUE ROAD REFLECTOR
15. THE FDP SUBMITTAL SHALL INCLUDE SIGNING, AND MARKING DETAILS INCLUDING BUT NOT LIMITED TO STOP SIGNS, ADA CROSSINGS, STOP BARS AND SPEED LIMIT SIGNS.
16. ALL STRUCTURES WILL BE SETBACK A MINIMUM 50' FROM THE WETLAND EDGE.

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CERTIFICATE OF AUTHORIZATION #25899

FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

SITE PLAN

REVISIONS

No.	Date	Description
1.		
2.		
3.		
4.		
5.		
6.		
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10.		

DESIGNED BY:	JAF
DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	1"=50'

SHEET NO.

C-4

JAMES A. FRASER LICENSE No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES A. FRASER, PE #58030

DRAINAGE STRUCTURE TABLE

D-23 FDOT TYPE "O" INLET
TOP ELEV. = 85.00
INV. W = 81.63

D-21 FDOT TYPE "P" MANHOLE
TOP ELEV. = 78.00
INV. W = 69.36
INV. E = 70.80
INV. N = 73.59

D-19 FDOT TYPE "P" MANHOLE
TOP ELEV. = 66.00
INV. W = 60.59
INV. E = 64.39

D-17 FDOT TYPE "O" INLET W/ SKIMMER
TOP ELEV. = 70.02
INV. S = 59.94

D-11 5' MITERED END SECTION
W/ ENERGY DISSIPATORS
INV. E = 78.10

D-9 FDOT TYPE "P-2" INLET
TOP ELEV. = 81.14
INV. S = 78.05

D-7 FDOT TYPE "P-1" INLET
TOP ELEV. = 86.93
INV. SW = 82.48

D-5 FDOT TYPE "P" MANHOLE
TOP ELEV. = 88.50
INV. = 74.54
INV. = 74.54

D-3 FDOT TYPE "P-2" INLET
TOP ELEV. = 82.76
INV. S = 74.16
INV. N = 74.16
INV. E = 75.66

D-24 FDOT TYPE "P-3" INLET
TOP ELEV. = 83.71
INV. NW = 77.06
INV. NE = 77.06

D-1 42" MITERED END SECTION
W/ ENERGY DISSIPATORS
INV. NE = 74.00

E-2 ADJUST EXISING INLET TOP AS NECESSARY FOR FINAL RE-GRADING GROUT INLET PER FDOT INDEX 425-008 TO NEW INVERT W ELEVATION
INV. W = 78.07

D-22 FDOT TYPE "P" MANHOLE
TOP ELEV. = 83.33
INV. E = 69.87

D-20 FDOT TYPE "P" MANHOLE
TOP ELEV. = 72.00
INV. E = 68.87

D-18 5' MITERED END SECTION
W/ ENERGY DISSIPATORS
INV. E = 60.00

D-16 FDOT TYPE "P" MANHOLE
W/ SUMP BOTTOM*
TOP ELEV = 64.64
INV. E = 59.50

D-114 FDOT TYPE "O" INLET W/ SKIMMER
TOP ELEV. = 81.07
INV. N = 74.81

D-12 FDOT TYPE "O" INLET
TOP ELEV. = 82.73
INV. W = 78.23

D-10 FDOT TYPE "P-2" INLET
TOP ELEV. = 81.14
INV. W = 78.09

D-8 FDOT TYPE "P" MANHOLE
TOP ELEV. = 84.80
INV. N = 75.14
INV. N = 75.14

D-6 FDOT TYPE "P-3" INLET
TOP ELEV. = 87.52
INV. S = 74.93
INV. = 74.93
INV. NE = 82.39

D-4 FDOT TYPE "P-2" INLET
TOP ELEV. = 82.76
INV. W = 75.69

D-28 FDOT TYPE "P-1" INLET
TOP ELEV. = 83.78
INV. SW = 77.12

D-2 FDOT TYPE "P" MANHOLE
TOP ELEV. = 84.14
INV. SW = 74.05

E-1 ADJUST EXISING INLET TOP AS NECESSARY FOR FINAL RE-GRADING
INV. E = 77.76

* INSTALL SUMP BOTTOM PER LATEST FDOT INDEX

DRAINAGE PIPE TABLE

FROM D-23 TO D-22 INSTALL 122 LF OF 15" HDPE @ 2.00%
FROM D-21 TO D-22 INSTALL 64 LF OF 15" HDPE @ 2.00%
FROM D-21 TO D-20 INSTALL 64 LF OF 15" HDPE @ 2.00%
FROM D-19 TO D-18 INSTALL 64 LF OF 15" HDPE @ 2.00%
FROM D-17 TO D-16 INSTALL 30 LF OF 15" HDPE @ 1.00%

FROM D-11 TO D-23 INSTALL 46 LF OF 18" HDPE @ 1.00%
FROM D-9 TO D-11 INSTALL 128 LF OF 18" RCP @ 0.13%
FROM D-7 TO D-9 INSTALL 185 LF OF 18" RCP @ 0.13%
FROM D-5 TO D-7 INSTALL 302 LF OF 24" RCP @ 0.13%
FROM D-3 TO D-5 INSTALL 221 LF OF 24" RCP @ 0.13%
FROM D-24 TO D-3 INSTALL 292 LF OF 24" RCP @ 0.13%
FROM D-1 TO D-24 INSTALL 124 LF OF 36" RCP @ 0.13%
FROM D-2 TO D-1 INSTALL 64 LF OF 36" RCP @ 0.24%
FROM D-28 TO D-2 INSTALL 69 LF OF 42" HDPE @ 0.07%

FROM E-2 TO E-1
REMOVE EXISTING 18" RCP
PLUG EXIST PIPE AT STRUCTURES

FROM E-2 TO E-1 INSTALL 24 LF OF 18" RCP @ 1.30%

YARD DRAIN STRUCTURE TABLE

Y-5 YARD DRAIN
TOP ELEV. = 71.60
INV. N = 68.19

Y-3 YARD DRAIN
TOP ELEV. = 71.40
INV. N = 66.85
INV. S = 66.85

Y-1 5' MITERED END SECTION
W/ ENERGY DISSIPATORS
INV. S = 66.00

Y-4 YARD DRAIN
TOP ELEV. = 71.50
INV. N = 68.02
INV. S = 68.02

Y-2 YARD DRAIN
TOP ELEV. = 71.30
INV. N = 66.68
INV. S = 66.68

NOTE: ALL YARD DRAINS TO INCLUDE A 6" CONCRETE COLLAR AROUND EACH INLET.

YARD DRAIN PIPE TABLE

FROM Y-5 TO Y-3 INSTALL 70 LF OF 15" HDPE @ 0.24%
FROM Y-4 TO Y-3 INSTALL 74 LF OF 15" HDPE @ 0.24%
FROM Y-3 TO Y-1 INSTALL 70 LF OF 15" HDPE @ 0.24%
FROM Y-2 TO Y-1 INSTALL 282 LF OF 15" HDPE @ 0.24%

INTERCEPTOR DRAIN STRUCTURE TABLE

I-8 10' INTERCEPTOR DRAIN CLEANOUT
TOP ELEV. = 74.00
INV. W = 65.37

I-6 10' INTERCEPTOR DRAIN CLEANOUT
TOP ELEV. = 74.00
INV. N = 65.26
INV. SE = 65.26

I-4 10' INTERCEPTOR DRAIN CLEANOUT
TOP ELEV. = 74.00
INV. N = 65.15
INV. SW = 65.07

I-2 10' INTERCEPTOR DRAIN CLEANOUT
TOP ELEV. = 74.00
INV. NE = 65.07
INV. SW = 65.07

I-1 MES W/ ENERGY DISSIPATORS
INV. E = 60.00

I-7 10' INTERCEPTOR DRAIN CLEANOUT
TOP ELEV. = 74.00
INV. NW = 65.27
INV. E = 65.21
INV. N = 65.21

I-5 10' INTERCEPTOR DRAIN CLEANOUT
TOP ELEV. = 74.00
INV. N = 65.21
INV. W = 65.21

I-3 10' INTERCEPTOR DRAIN CLEANOUT
TOP ELEV. = 74.00
INV. N = 65.09
INV. E = 65.09

I-13 10' INTERCEPTOR DRAIN CLEANOUT
TOP ELEV. = 74.00
INV. NW = 65.00
INV. SW = 65.00

INTERCEPTOR DRAIN PIPE TABLE

FROM I-8 TO I-7 INSTALL 100 LF OF 10" PERFORATED SMOOTH WALL HDPE @ 0.10%
FROM I-6 TO I-5 INSTALL 77 LF OF 10" PERFORATED SMOOTH WALL HDPE @ 0.10%
FROM I-4 TO I-3 INSTALL 458 LF OF 10" PERFORATED SMOOTH WALL HDPE @ 0.10%
FROM I-2 TO I-1 INSTALL 62 LF OF 10" PERFORATED SMOOTH WALL HDPE @ 0.10%
FROM I-1 TO I-20 INSTALL 168 LF OF DR14 PVC @ 28.9%
FROM I-13 TO I-12 INSTALL 66 LF OF 10" PERFORATED SMOOTH WALL HDPE @ 0.10%
FROM I-11 TO I-10 INSTALL 66 LF OF 10" PERFORATED SMOOTH WALL HDPE @ 0.10%
FROM I-9 TO I-10 INSTALL 66 LF OF 10" PERFORATED SMOOTH WALL HDPE @ 0.10%
FROM I-1 TO I-20 INSTALL 13 LF OF 10" DR14 PVC @1.00%

STATE ROAD 451

SHADED AREA INDICATES SPREAD OF THE EASEMENTS(TYP.)

PROPOSED 10' WALL AND DRAINAGE EASEMENT FOR LOTS 17 AND 18

PROPOSED 15' WALL AND DRAINAGE EASEMENT FOR LOTS 11-16

*EASEMENT TO BE DEDICATED TO THE HOA WITH MAINTENANCE RESPONSIBILITIES FOR EASEMENT DEDICATED TO THE HOA.

PROPOSED 10' WALL AND DRAINAGE EASEMENT FOR LOTS 8-10

PROPOSED 5' DRAINAGE EASEMENT FOR LOTS 1-7

SUB BASIN BOUNDARY(TYP.)

BASIN BOUNDARY(TYP.)

10' DRAINAGE EASEMENT

10' DRAINAGE/WALL EASEMENT*

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 LOT 9 LOT 10 LOT 11 LOT 12 LOT 13 LOT 14 LOT 15 LOT 16 LOT 17 LOT 18 LOT 19 LOT 20 LOT 21 LOT 22 LOT 23 LOT 24 LOT 25 LOT 26 LOT 27 LOT 28 LOT 29 LOT 30 LOT 31

BUFFER TRACT B-1

POND 1 TRACT D-1

PARK TRACT P-1

POND 2 TRACT D-2

CONSERVATION TRACT C-1

RALPH POE DRIVE

POINT OF BEGINNING

SITE BENCHMARK #2

EXISTING EASEMENT LINE

50' WETLAND BUFFER

25' WETLAND BUFFER

WETLAND LINE

WETLAND LINE BY OTHERS

SHORELINE

1.52 AC

1.68 AC

0.19 AC

0.32 AC

0.61 AC

0.10 AC

1.18 AC

0.96 AC

0.22 AC

ROCK BAGS AROUND ALL INLETS(TYP.) ACCORDING TO FDOT INDEX 102 OR APPROVED EQUAL

FLOOD ELEVATION LINE OF ELEVATION 70.3' BASED ON FEMA FLOOD MAPS

CONSTRUCT SILT FENCE ACCORDING TO FDOT INDEX 102(TYP.) CONSTRUCT SEDIMENT RETENTION BARRIER ON ENTIRE WEST SIDE OF PROJECT ADJACENT TO WETLAND BUFFER ACCORDING TO DETAIL SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN

GRATE=81.76'
INV(E)=75.58'
INV(W)=75.58'

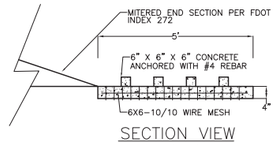
GRATE=81.72'
INV(W)=72.89'

GRAPHIC SCALE

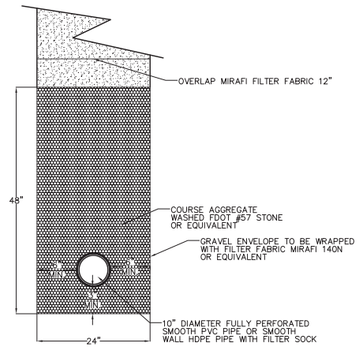
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

EROSION CONTROL/WATER QUALITY MANAGEMENT PRACTICES

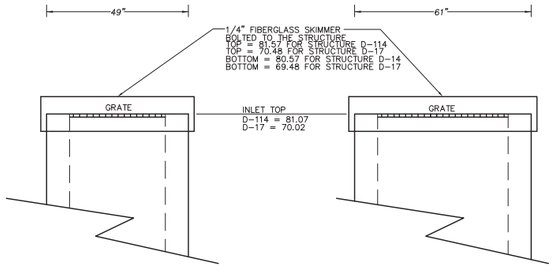
1. THE CONTRACTOR MUST SELECT, IMPLEMENT, AND OPERATE ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF WATER QUALITY STANDARD AS SPECIFIED IN CHAPTERS 17-301, 17-302, 17-4, F.A.C. THE CONTRACTOR IS ENCOURAGED TO USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS AS DESCRIBED IN THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DER, 1988).
2. THE CONTRACTOR SHALL CONTROL TURBID RUNOFF FROM THE PROJECT BY ROUGH EXCAVATING THE PROPOSED RETENTION AREAS IMMEDIATELY FOLLOWING CLEARING AND GRUBBING OPERATIONS. ALL DEWATERING DISCHARGE SHALL BE DIRECTED TO THESE AREA(S) FOR SETTLING PRIOR TO DISCHARGE OFF-SITE.
3. THE CONTRACTOR SHALL INSTALL WATER QUALITY CONTROL DEVICES ALONG THE SITE PERIMETER, AS DESIGNATED ON THESE PLANS. THE CONTRACTOR SHALL RECEIVE THE ENGINEER'S APPROVAL OF THE INSTALLATION PRIOR TO ANY OTHER SITE CONSTRUCTION.
4. ALL EROSION CONTROL/WATER QUALITY DEVICES SHALL BE IN ACCORDANCE WITH INDEXES 102 AND 103 OF THE LATEST EDITION OF THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS". SILT FENCES, INLET PROTECTION DEVICES, AND/OR TURBIDITY BARRIERS SHALL BE INSTALLED AT ALL OFF-SITE DISCHARGE POINTS. ALL EROSION CONTROL/WATER QUALITY DEVICES SHALL BE LEFT IN PLACE UNTIL THE DISTURBED AREAS ARE COMPLETELY STABILIZED AND/OR VEGETATED.
5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SOIL MOISTURE TO PREVENT WIND GENERATED SOIL EROSION. ALL SURFACES 30 OR MORE DAYS SHALL BE VEGETATED WITH A TEMPORARY OR PERMANENT COVER.
6. ALL SLOPES 4:1 OR GREATER SHALL BE SODDED.



ENERGY DISSIPATOR DETAIL
NTS



INTERCEPTOR DRAIN DETAIL



OUTFALL STRUCTURE SKIMMER DETAIL
NTS

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CERTIFICATE OF AUTHORIZATION #25899

FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

DRAINAGE PLAN

REVISIONS

No.	Date	Description
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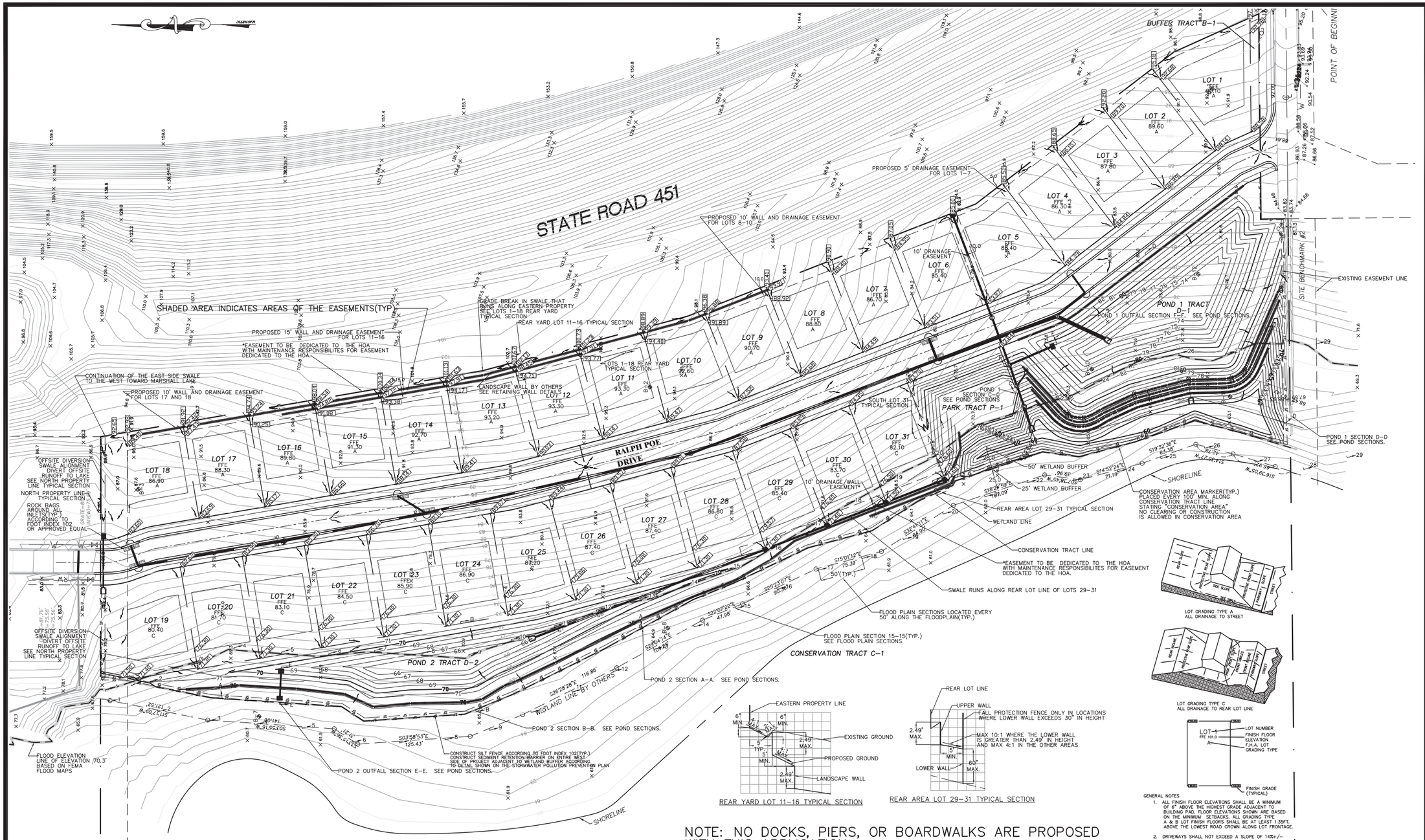
DESIGNED BY:	JAF
DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	1"=50'

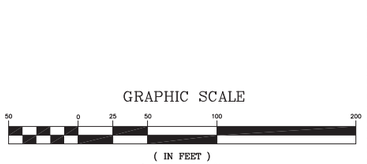
SHEET NO.

C-5

JAMES A. FRASER LICENSE No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES A. FRASER, PE #58030





REAR YARD LOT 11-16 TYPICAL SECTION

REAR AREA LOT 29-31 TYPICAL SECTION

LOT GRADING TYPE A
ALL DRAINAGE TO STREET

LOT GRADING TYPE C
ALL DRAINAGE TO REAR LOT LINE

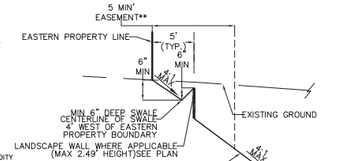
GENERAL NOTES
1. ALL FINISH FLOOR ELEVATIONS SHALL BE A MINIMUM OF 6" ABOVE THE HIGHEST GRADE ADJACENT TO BUILDING PAD. FLOOR ELEVATIONS SHOWN ARE BASED ON THE MINIMUM SETBACKS. ALL GRADING TYPE A & B LOT FINISH FLOORS SHALL BE AT LEAST 1.35FT. ABOVE THE LOWEST ROAD CROWN ALONG LOT FRONTAGE.
2. DRIVEWAYS SHALL NOT EXCEED A SLOPE OF 14%+/-

FHA GRADING SCHEMES
NOT TO SCALE

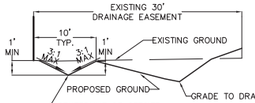
NOTE: NO DOCKS, PIERS, OR BOARDWALKS ARE PROPOSED WITH THIS APPLICATION

NOTE: SEE RETAINING WALL PLANS IN THIS PLAN SET FOR STRUCTURAL DETAILS ON THE RETAINING WALLS

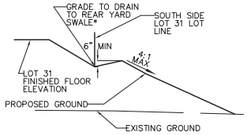
EROSION CONTROL/WATER QUALITY MANAGEMENT PRACTICES
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6. ALL SLOPES 4:1 OR GREATER SHALL BE SODDED.



LOTS 1-18 REAR YARD TYPICAL SECTION
SCALE: NTS
**EASEMENT SHALL EXTEND 5' DOWNSLOPE OF THE LOWEST WALL



NORTH PROPERTY LINE TYPICAL SECTION
SCALE: NTS



*NOTE: SEE FLOOD PLAIN SECTIONS 16-16 THROUGH 20-20 FOR THE REAR YARD SWALE INFORMATION

SOUTH LOT 31 TYPICAL SECTION
SCALE: NTS

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CERTIFICATE OF AUTHORIZATION #25899

FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

GRADING PLAN

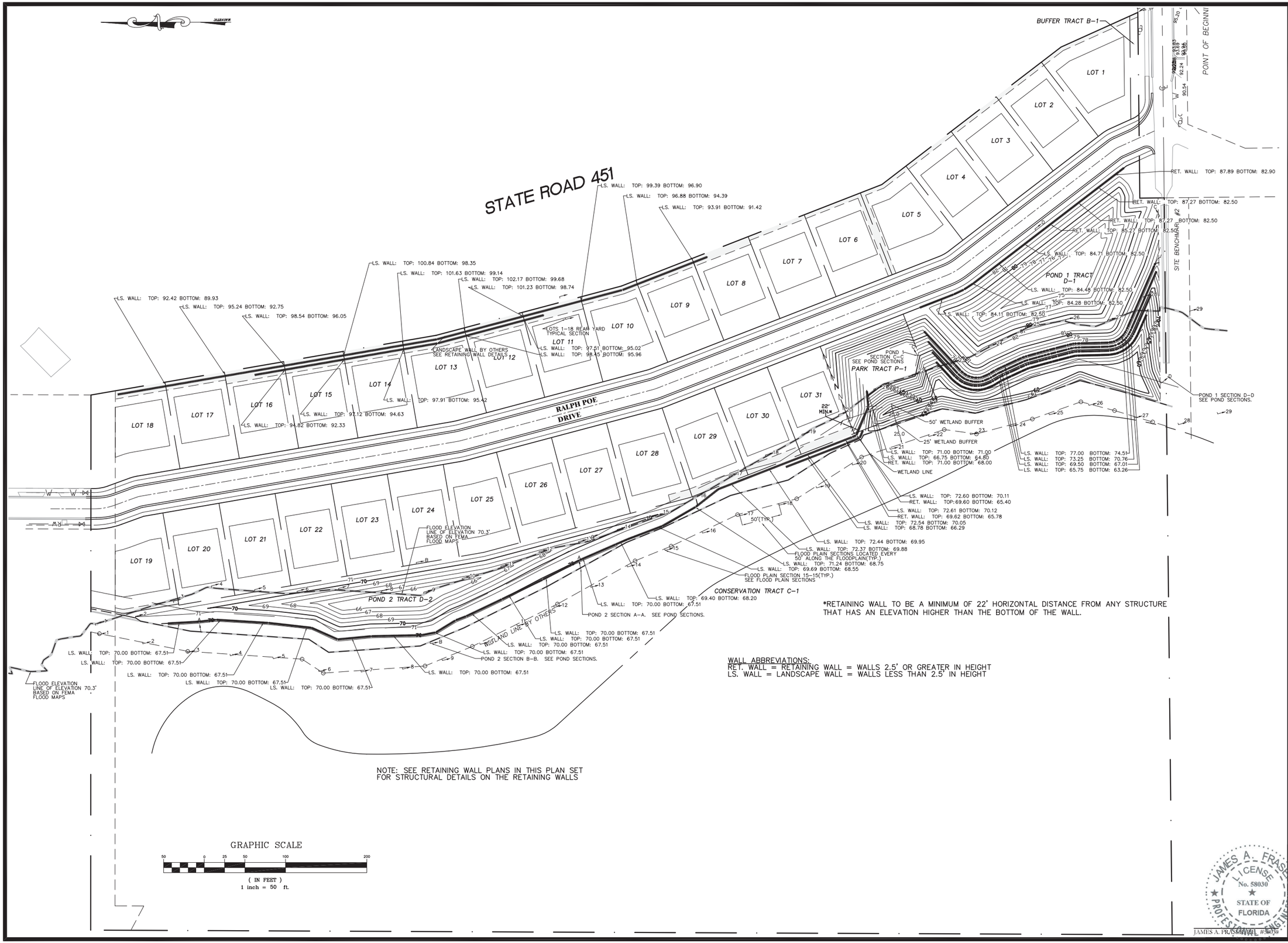
REVISIONS

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DESIGNED BY:	JAF
DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	1"=50'

SHEET NO.
C-6

JAMES A. FRASER No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES A. FRASER, PE #58030



*RETAINING WALL TO BE A MINIMUM OF 22' HORIZONTAL DISTANCE FROM ANY STRUCTURE THAT HAS AN ELEVATION HIGHER THAN THE BOTTOM OF THE WALL.

WALL ABBREVIATIONS:
RET. WALL = RETAINING WALL = WALLS 2.5' OR GREATER IN HEIGHT
LS. WALL = LANDSCAPE WALL = WALLS LESS THAN 2.5' IN HEIGHT

NOTE: SEE RETAINING WALL PLANS IN THIS PLAN SET FOR STRUCTURAL DETAILS ON THE RETAINING WALLS

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CERTIFICATE OF AUTHORIZATION #25899

FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

RETAINING/LANDSCAPE WALL SITE PLAN

REVISIONS

No.	Date	Description
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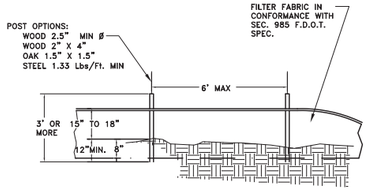
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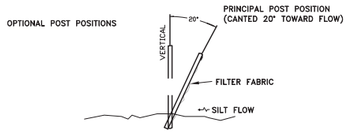
C-6A

JAMES A. FRASER, LICENSE No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES A. FRASER, PE #58030



SILT FENCE ELEVATION VIEW *



SILT FENCE SECTION VIEW *

* AS PER ROADWAY & TRAFFIC DESIGN STANDARDS (INDEX 102)

Polymer Enhanced BMP Application Guide

Sediment Control

Sediment Retention Barriers (SRB)

The Sediment Retention Barrier (SRB) is a double row of silt fence, standing about 4-6 feet apart, filled with loose mulch, straw, woodchips, or other organic matter mixed or blended with the site-specific Silt Stop polymer. It is used on graded sites to trap the first sediment and clays that flow through the silt fence barrier. With the use of the site-specific Silt Stop polymer, stormwater clarity can be greatly improved while utilizing the function of the silt fence.

i. Install in areas where stormwater will exit a site, keeping the installation as level as possible, fill low spots as necessary.

ii. Place the barrier perpendicular to flow.

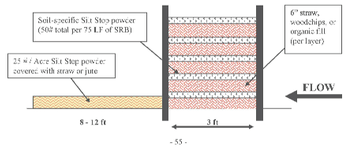
iii. The silt fence should be designed to allow water to pass through it. The silt fence shall allow water to pass at a rate of 70 GPM/ft² or greater.

iv. Place 2 parallel rows silt fence 4-6 feet apart. Place loose straw or mulch 3 feet deep between the silt fences (do not compact).

v. Dry site-specific Silt Stop powder should be spread throughout the organic fill material, mixed evenly or spread in small layers. **Application rates should be around 50# powder / 75 linear feet of SRB.**

vi. Stabilizing the soil behind the SRB with Silt Stop powder and straw or jute matting provides final clarification of the stormwater. It should be used where water clarity is extremely important.

Cross section of a Sediment Retention Barrier:



GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

SYMBOL LEGEND	
	MITERED END SECTION
	CURB INLET
	DITCH BOTTOM INLET
Ⓓ	DRAINAGE MANHOLE
	STORM PIPE
	DRAINAGE ARROW
SF	SILT FENCE*
	ROCK BAGS*

*PLEASE SEE SWPPP DETAILS FOR MORE INFORMATION

STABILIZED CONSTRUCTION ENTRANCE DETAIL

CONSTRUCTION SW-PPP NOTES

1. PROPERTY OWNER NAME AND ADDRESS:
HOLSTON PROPERTIES AND DEVELOPMENT
7575 DR PHILLIPS BLVD #245
ORLANDO, FL 32819

2. PROJECT LOCATION: LATITUDE: 28.6776 LONGITUDE: -81.5336

3. DESCRIPTION: THIS PROJECT WILL CONSIST OF A MASTER STORM WATER, FACILITY, MASS GRADING, RESIDENTIAL DEVELOPMENT, AND RECREATIONAL AREA. THE GOAL IS TO CONSTRUCT THE INFRASTRUCTURE, STREETS, UTILITIES, AND STORM WATER PONDS TO SERVE THE PROJECT AND, REDUCE STORM WATER RUNOFF FROM THE SITE.

THE TYPES OF SOIL DISTURBANCE ACTIVITIES INCLUDE: CLEARING AND GRUBBING; INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER AND OTHER EROSION AND SEDIMENT CONTROLS; DEMOLITION; EXCAVATION AND STOCKPILING; STORM WATER FACILITIES AND GRADING; UTILITIES; BUILDING FOUNDATIONS; ROADWAY AND PARKING AREAS; AND PREPARATION FOR FINAL PLANTING AND SEEDING.

4. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
(1) INSTALL STABILIZED CONSTRUCTION ENTRANCE
(2) INSTALL AREA EROSION AND SEDIMENTATION CONTROLS
(3) CLEAR/GRUB AND GRADE STORM WATER FACILITIES
(4) STABILIZE DENUDED AREAS
(5) INSTALL UTILITIES AND STORM SEWER SYSTEMS
(6) COMPLETE PAVING
(7) INSTALL PERMANENT SEEDING AND PLANTING;
(8) REMOVE ACCUMULATED SEDIMENTS
(9) REMOVE EROSION AND SEDIMENTATION CONTROLS AND STABILIZE ANY AREA DISTURBED BY THEIR REMOVAL
ON-SITE SOILS CONSIST MOSTLY OF CANDLER FINE SANDS
THESE SOILS ARE OF HYDROLOGIC GROUP TYPE "D" SOILS

5. RUNOFF COEFFICIENT:
PRE-CONSTRUCTION C=0.2 POST-CONSTRUCTION C=0.60

6. OUTFALL LOCATION: 2-LOCATIONS-SEE PLAN

7. AREA ESTIMATES: TOTAL PROJECT AREA = 25.38 ACRES,
DISTURBED AREA = 10.34 ACRES.

8. RECEIVING WATERS: MARSHALL LAKE

9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SW-PPP) IN ACCORDANCE WITH BOTH THE EPA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND ALL OTHER STATE AND LOCAL REQUIREMENTS.

A SW-PPP CONSISTS OF SITE DESIGN, SITE ASSESSMENT, CONTROL SELECTION, CERTIFICATION AND NOTIFICATION, CONSTRUCTION/IMPLEMENTATION AND MAINTENANCE, FINAL STABILIZATION AND TERMINATION.
THE SW-PPP SITE MAP OUTLINES THE MINIMAL REQUIREMENTS FOR INSTALLATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL WHERE WORK IS ACCOMPLISHED WITH THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT FIELD CHANGES AND IMPLEMENT CONTROL MEASURES NOT SHOWN ON THE SITE MAP OR SPECIFICATIONS.

10. INSPECTION:
CONSTRUCTION SITE WILL BE INSPECTED FOR EROSION PROBLEMS DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. A RAIN GAUGE WILL BE ONSITE TO MEASURE THE RAINFALL AMOUNTS.

11. DEWATERING:
DEWATERING TO BE ACCOMPLISHED ACCORDING TO CONTRACTOR'S DEWATERING PERMIT

12. POTENTIAL POLLUTANTS DURING CONSTRUCTION:
A. HYDRAULIC OIL COULD POTENTIALLY SPILL FROM A BROKEN LINE ON OPERATIONAL PIECES OF MACHINERY. THE SPILL WILL IMMEDIATELY BE CONTAINED AND REMEDIATED.
B. ALL CONSTRUCTION WASTE AND GENERAL LITTER SHALL BE PLACED IN STEEL ROLLOFF CONTAINERS WHICH SHALL BE DISPOSED OF PROPERLY OFFSITE.
C. ALL SANITARY WASTES SHALL BE COLLECTED VIA PORT-A-JOHNS. THE SITE CONTRACTOR SHALL HAVE THE SANITARY FACILITIES VACUUMED AS NEEDED TO MINIMIZE POTENTIAL OF SPILLAGE.
D. THE ONLY CHEMICAL APPLICATION PROPOSED FOR THIS PHASE OF WORK IS CHEMICAL TREATMENT UNDER SLABS AND SIDEWALKS. A COMPANY THAT IS COMPETENT AND CERTIFIED IN THIS LINE OF WORK WILL APPLY THE CHEMICALS.

13. PERMANENT STABILIZATION:
ALL AREAS TO BE PERMANENTLY STABILIZED SHALL BE STABILIZED WITH SEED AN MULCH ON SLOPES LESS THAN 4:1 AND SOD ON THE REMAINDER OF THE PERVIOUS SURFACE.

14. PERMANENT STABILIZATION:
PERMANENT CONTROLS SHALL CONSIST OF; GRASSED SWALE, CURBS, INLETS, STORM MANHOLES AND RETENTION/EXTENDED DETENTION BASINS AS SHOWN ON CONSTRUCTION DRAWINGS.

EROSION CONTROL/WATER QUALITY MANAGEMENT PRACTICES
1. THE CONTRACTOR MUST SELECT, IMPLEMENT, AND OPERATE ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF WATER QUALITY STANDARD AS SPECIFIED IN CHAPTERS 17-301, 17-302, 17-4, F.A.C. THE CONTRACTOR IS ENCOURAGED TO USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS AS DESCRIBED IN THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DER, 1988).
2. THE CONTRACTOR SHALL CONTROL TURBID RUNOFF FROM THE PROJECT BY ROUGH EXCAVATING THE PROPOSED RETENTION AREAS IMMEDIATELY FOLLOWING CLEARING AND GRUBBING OPERATIONS. ALL DEWATERING DISCHARGE SHALL BE DIRECTED TO THESE AREA(S) FOR SETTLING PRIOR TO DISCHARGE OFF-SITE.
3. THE CONTRACTOR SHALL INSTALL WATER QUALITY CONTROL DEVICES ALONG THE SITE PERIMETER, AS DESIGNATED ON THESE PLANS. THE CONTRACTOR SHALL RECEIVE THE ENGINEER'S APPROVAL OF THE INSTALLATION PRIOR TO ANY OTHER SITE CONSTRUCTION.
4. ALL EROSION CONTROL/WATER QUALITY DEVICES SHALL BE IN ACCORDANCE WITH INDEXES 102 AND 103 OF THE LATEST EDITION OF THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS". SILT FENCES, INLET PROTECTION DEVICES, AND/OR TURBIDITY BARRIERS SHALL BE INSTALLED AT ALL OFF-SITE DISCHARGE POINTS. ALL EROSION CONTROL/WATER QUALITY DEVICES SHALL BE LEFT IN PLACE UNTIL THE DISTURBED AREAS ARE COMPLETELY STABILIZED AND/OR VEGETATED.
5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SOIL MOISTURE TO PREVENT WIND GENERATED SOIL EROSION. ALL SURFACES 30 OR MORE DAYS SHALL BE VEGETATED WITH A TEMPORARY OR PERMANENT COVER.
6. ALL SLOPES 4:1 OR GREATER SHALL BE SODDED.

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CERTIFICATE OF AUTHORIZATION #25899

FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

STORMWATER POLLUTION PREVENTION PLAN

REVISIONS

No.	Date	Description
1.		
2.		
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DESIGNED BY:	JAF
DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	1"=50'

SHEET NO.

C-7

JAMES A. FRASER LICENSE No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES A. FRASER, P.E. #58030

SANITARY STRUCTURE TABLE

(S-1) SANITARY MANHOLE
TOP ELEV. = 87.78
INV. NW = 80.20

(S-2) SANITARY MANHOLE
TOP ELEV. = 87.16
INV. NE = 78.22
INV. S = 78.32

(S-3) SANITARY MANHOLE
TOP ELEV. = 83.89
INV. N = 79.44
INV. SE = 79.54

(S-4) SANITARY MANHOLE
TOP ELEV. = 88.66
INV. N = 77.34
INV. S = 77.44

(S-5) CONNECT TO EXISTING SANITARY MANHOLE
INV. N = 76.11
INV. S = 75.89

SANITARY PIPE TABLE

FROM (S-1) TO (S-2) INSTALL 237 LF OF 8" SDR35 @ 0.282%
FROM (S-2) TO (S-3) INSTALL 199 LF OF 8" SDR35 @ 0.282%
FROM (S-3) TO (S-4) INSTALL 280 LF OF 8" SDR35 @ 0.282%
FROM (S-4) TO (S-5) INSTALL 402 LF OF 8" SDR35 @ 0.282%
FROM (S-5) TO (S-1) INSTALL 80 LF OF 8" SDR35 @ 0.282%

PIPE XING TABLE

XING #	GROUND ELEV FT.	TOP PIPE SIZE TYPE	TOP PIPE INV. IN.	TOP PIPE THICK IN.	TOP PIPE TOP ELEV FT	TOP PIPE BOTTOM ELEV FT	BOTTOM PIPE SIZE TYPE	BOTTOM PIPE INV. FT.	BOTTOM PIPE THICK IN.	BOTTOM PIPE TOP ELEV FT	GROUND COVER FT.	PIPE SEPAR. FT.
1	83.12	8"SDR35	79.01		79.76	78.93	24"HDPE	75.68	3	77.93	4.76	1.00
2	87.44	15"RCP	74.21	1	75.77	72.76	24"HDPE	72.51	3	74.76	12.68	3.00
3	81.32	18"RCP	78.07	1	79.65	77.98	24"HDPE	76.73	3	78.98	1.67	1.00
4	81.32	15"RCP	78.19	1	79.69	78.13	24"HDPE	76.93	3	79.18	2.20	1.00
5	82.69	15"RCP	78.34	1	79.87	78.06	4"DR18 RW	78.44	1	78.75	2.82	.75
6	82.87	15"RCP	78.24	1	79.87	78.15	12"DR18 WM	78.07	1	79.15	3.30	1.00
7	83.96	4"DR18 RW	80.13	4.5	80.89	79.81	42"HDPE	74.04	4.5	77.99	3.09	1.08
9	83.25	18"RCP	77.92	2.5	79.63	77.71	8"SDR35	75.96	1	76.71	3.63	1.00
10	82.01	8"SDR35	79.81	1	80.56	79.63	15"CPEP	77.01	2.25	78.53	3.55	1.00
11	83.80	15"HDPE	79.36	1	80.72	79.30	8"DR18 WM	77.55	1	78.30	3.08	1.00
12	83.18	15"SDR35	79.09	1	80.47	79.13	15"HDPE	77.34	2.25	78.87	3.31	1.00
13	83.26	36"HDPE	74.16	2.25	77.29	73.91	15"HDPE	71.48	2.25	72.92	6.37	1.00
14	83.80	4"DR18 RW	80.28	2.25	80.90	80.09	15"HDPE	77.38	2.25	77.82	5.00	2.28

NOTE: BOLD INDICATES POTABLE WATER MAIN XINGS

(1) = INDICATES PIPE XING

STATE ROAD 451

BUFFER TRACT B-1

MATCH LINE A-A SEE OFF-SITE RECLAIMED WATER EXTENSION

POINT OF BEGINNING

LOT 1

LOT 2

LOT 3

LOT 4

LOT 5

LOT 6

LOT 7

LOT 8

LOT 9

LOT 10

LOT 11

LOT 12

LOT 13

LOT 14

LOT 15

LOT 16

LOT 17

LOT 18

LOT 19

LOT 20

LOT 21

LOT 22

LOT 23

LOT 24

LOT 25

LOT 26

LOT 27

LOT 28

LOT 29

LOT 30

LOT 31

8" GATE VAVLE

OPEN CUT AND REPLACE EXISTING PAVEMENT

CONNECT TO EXISTING 8" WM

4" PLUG
4" GATE VAVLE

SITE BENCHMARK #2

POND 1 TRACT D-1

PARK TRACT P-1

GRAPHIC REPRESENTATION OF STORM SEWER SYSTEM SEE DRAINAGE PLAN FOR MORE INFORMATION

SINGLE SANITARY SERVICE(TYP.)

SINGLE RECLAIMED SERVICE(TYP.)

EXISTING ROAD AND UTILITIES ESTIMATED FROM THE AS-BUILTS OF POE RESERVE. SURVEY WAS DONE PRIOR TO CONSTRUCTION OF THESE ITEMS

FIRE HYDRANT(TYP.)

RALPH POE DRIVE

8" DR18 WM

4" DR18 RWM

DOUBLE WATER SERVICE(TYP.)

DOUBLE SANITARY SERVICE(TYP.)

SINGLE WATER SERVICE(TYP.)

CONNECT TO EXISTING 8" WM

OPEN CUT AND REPLACE EXISTING PAVEMENT AS NECESSARY FOR SEWER CONNECTION AND ROAD RE-GRADING

CONNECT TO EXISTING RECLAIMED WATER MAIN

GRATE=81.32
INV(E)=75.32
INV(W)=75.22

POND 2 TRACT D-2

CONSERVATION TRACT C-1

WETLAND LINE BY OTHERS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

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FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

UTILITY PLAN

REVISIONS

No.	Date	Description
1.		
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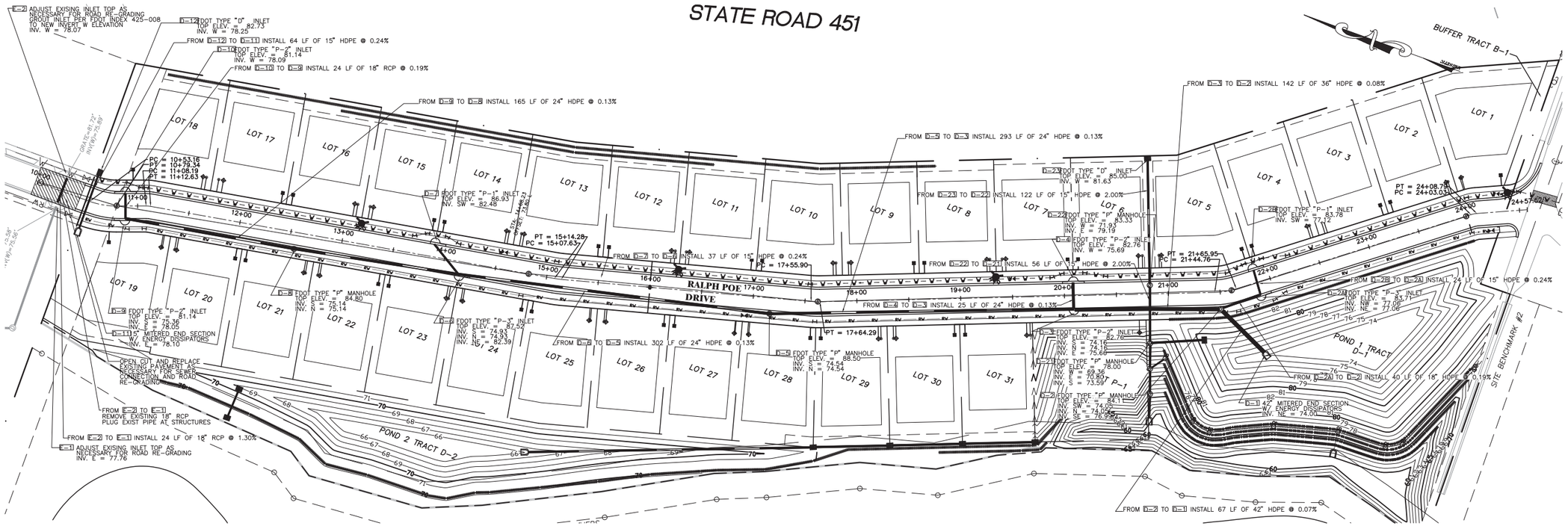
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DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	1"=50'

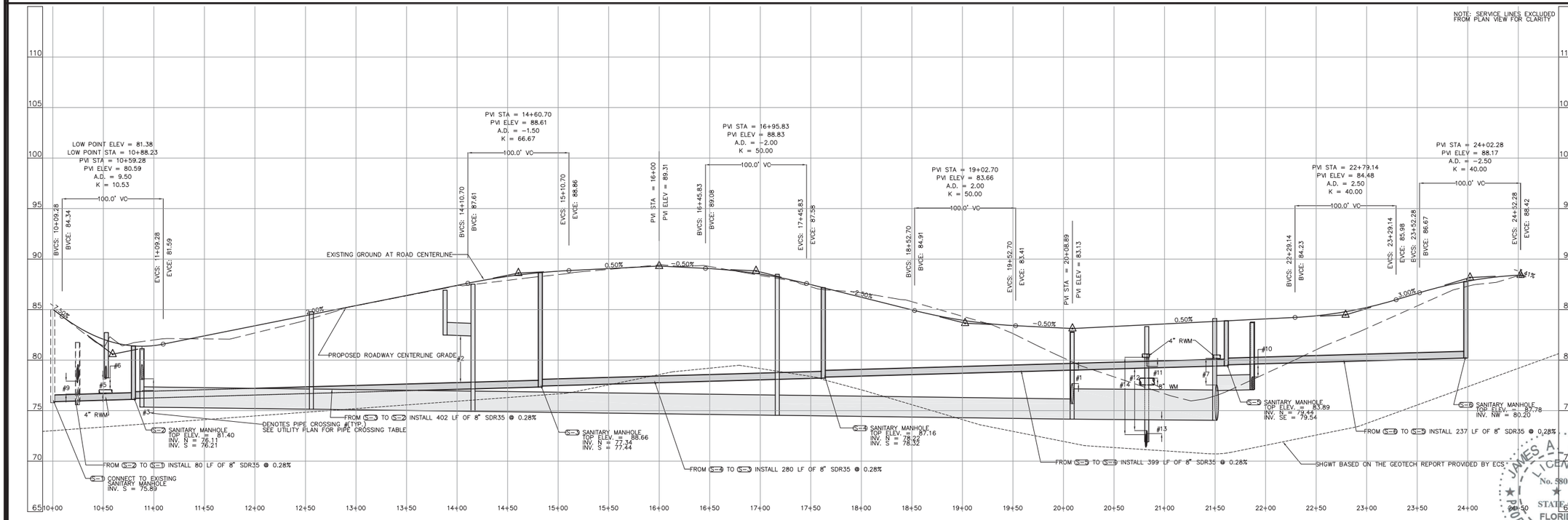
SHEET NO.

C-8

JAMES A. FRASER, LICENSE No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER

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FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

ROADWAY PLAN AND PROFILE STATION 10+00 TO 24+57

REVISIONS

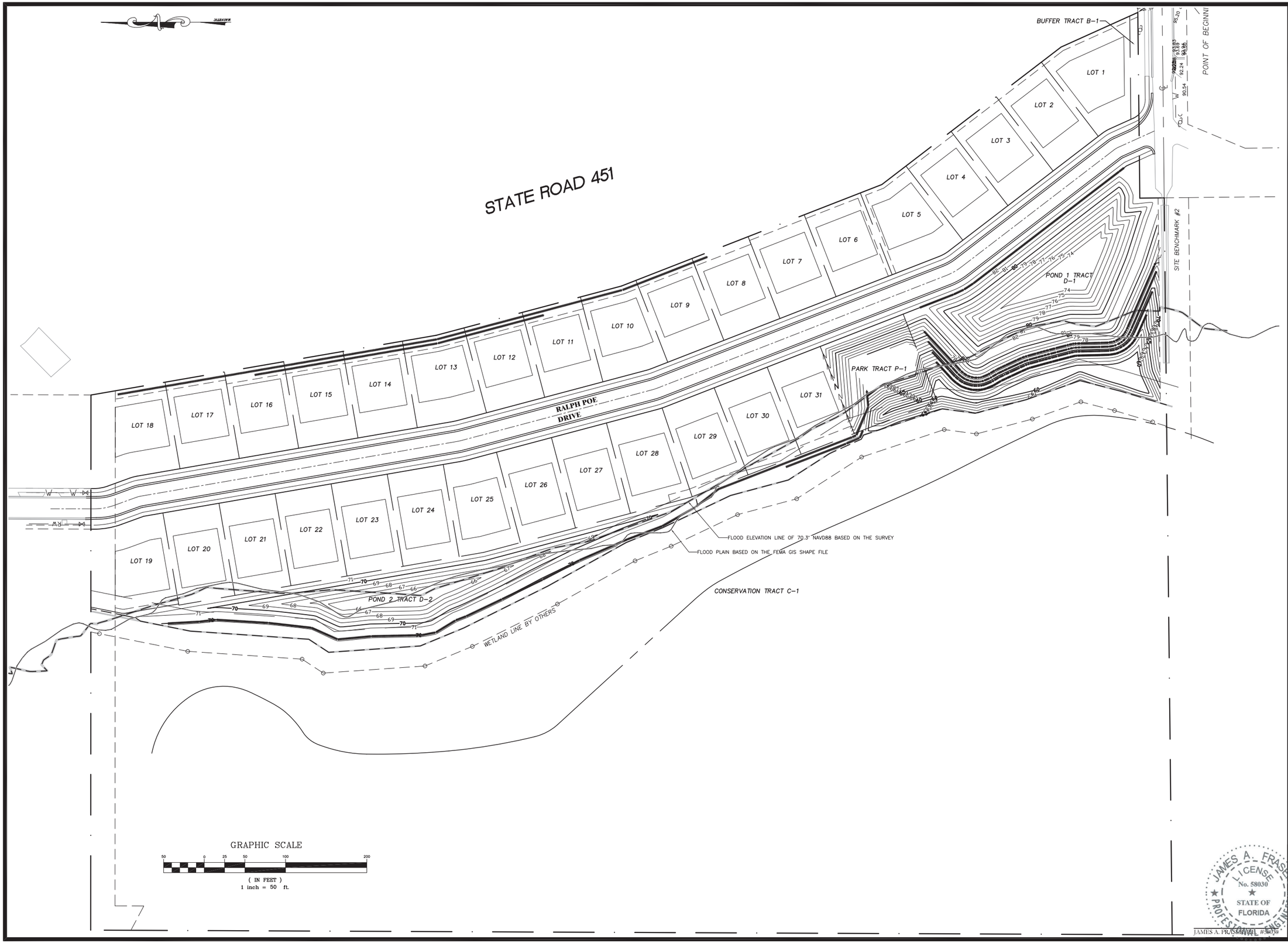
No.	Date	Description
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DESIGNED BY:	JAF
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PROJECT NO.	061-002
SCALE:	1"=50'/1"=5'/V

SHEET NO.

C-9

JAMES A. FRASER, PE #58039



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FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

FLOOD PLAIN INFORMATION PLAN

REVISIONS

No.	Date	Description
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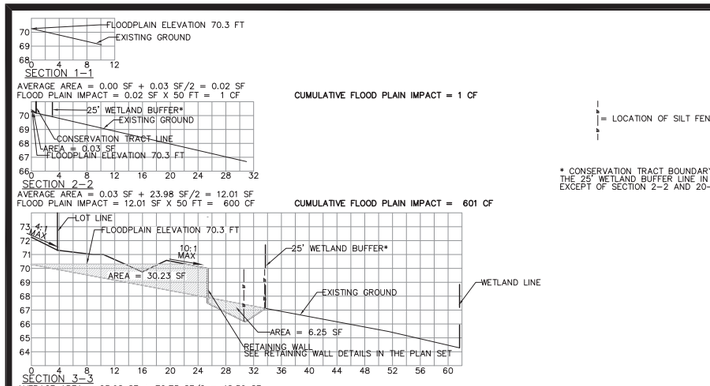
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DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	1"=50'

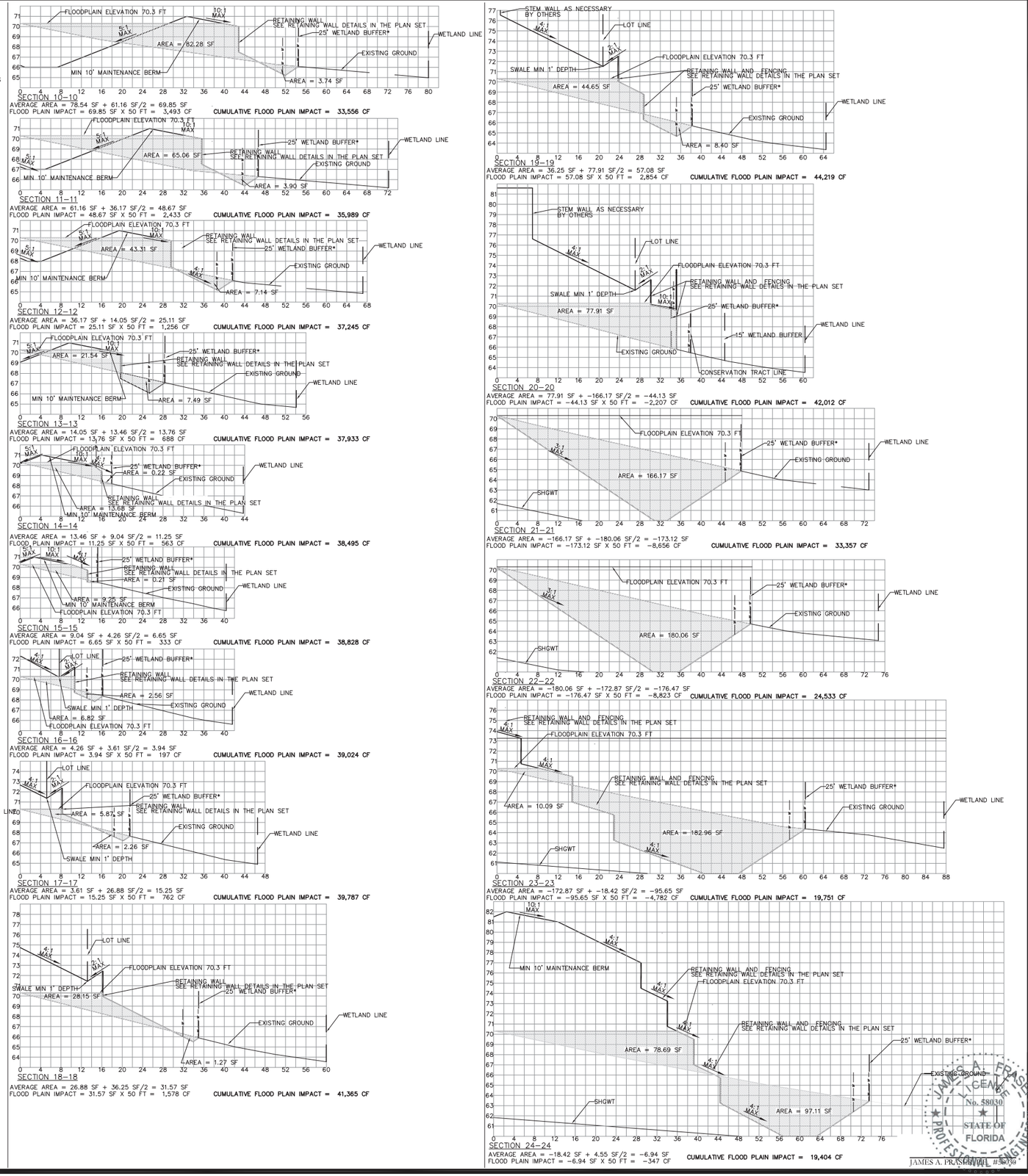
SHEET NO.

C-10

JAMES A. FRASER, LICENSE No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES A. FRASER, PE #58030





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FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

FLOOD PLAIN SECTIONS

REVISIONS

No.	Date	Description
1		
2		
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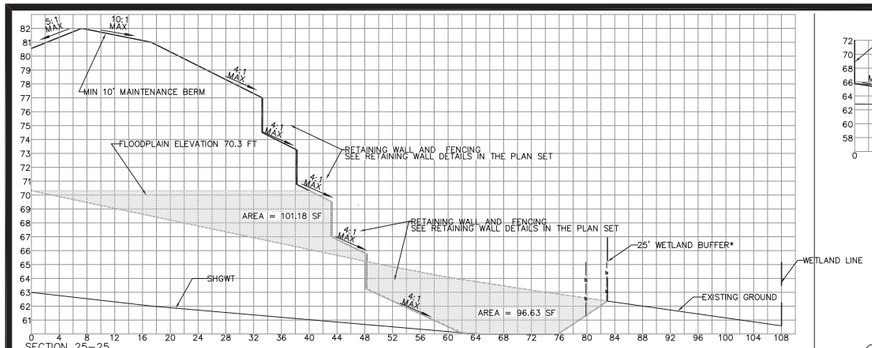
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DATE: 08/02/23
PROJECT NO. 061-002
SCALE: 1" = 10' H 1" = 5' V

SHEET NO.

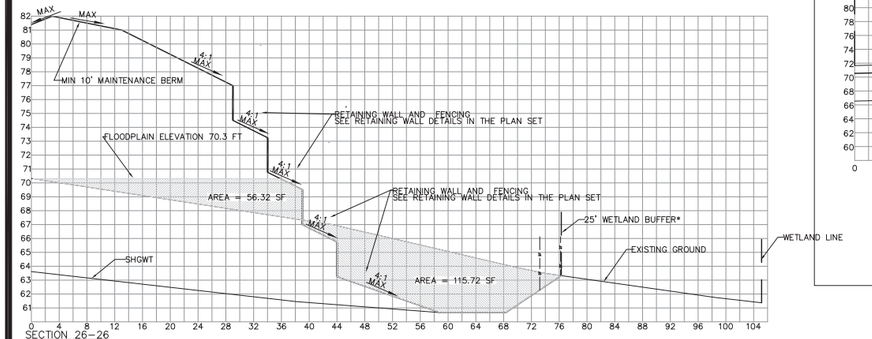
C-11

JAMES A. FRASER No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES A. FRASER, PE #58030



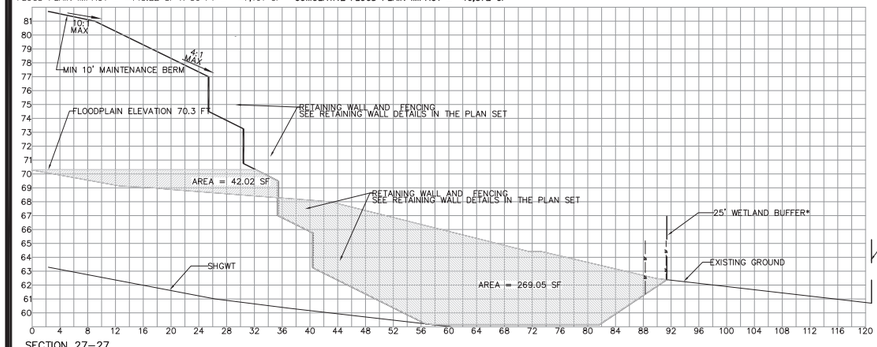
SECTION 25-25

AVERAGE AREA = 4.55 SF + -59.40 SF/2 = -27.43 SF
FLOOD PLAIN IMPACT = -27.43 SF X 50 FT = -1,371 CF **CUMULATIVE FLOOD PLAIN IMPACT = 18,033 CF**



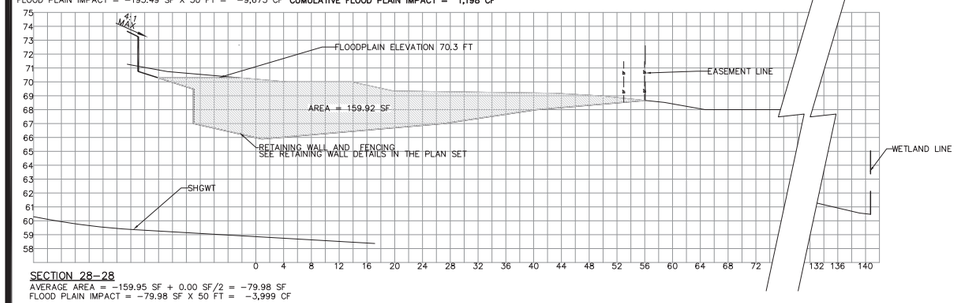
SECTION 26-26

AVERAGE AREA = -59.40 SF + -227.03 SF/2 = -143.22 SF
FLOOD PLAIN IMPACT = -143.22 SF X 50 FT = -7,161 CF **CUMULATIVE FLOOD PLAIN IMPACT = 10,872 CF**



SECTION 27-27

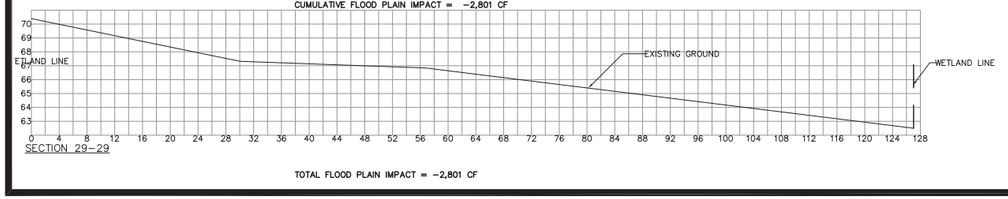
AVERAGE AREA = -227.03 SF + -159.95 SF/2 = -193.49 SF
FLOOD PLAIN IMPACT = -193.49 SF X 50 FT = -9,675 CF **CUMULATIVE FLOOD PLAIN IMPACT = 1,198 CF**



SECTION 28-28

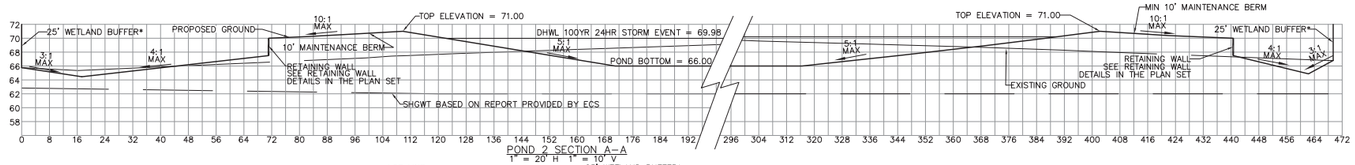
AVERAGE AREA = -159.95 SF + 0.00 SF/2 = -79.98 SF
FLOOD PLAIN IMPACT = -79.98 SF X 50 FT = -3,999 CF

CUMULATIVE FLOOD PLAIN IMPACT = -2,801 CF

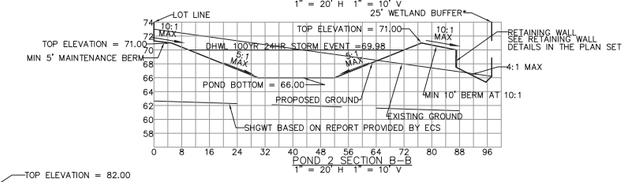


SECTION 29-29

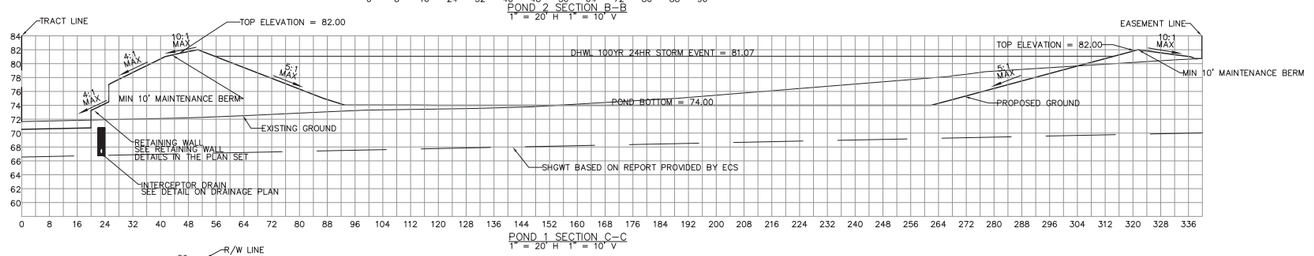
TOTAL FLOOD PLAIN IMPACT = -2,801 CF



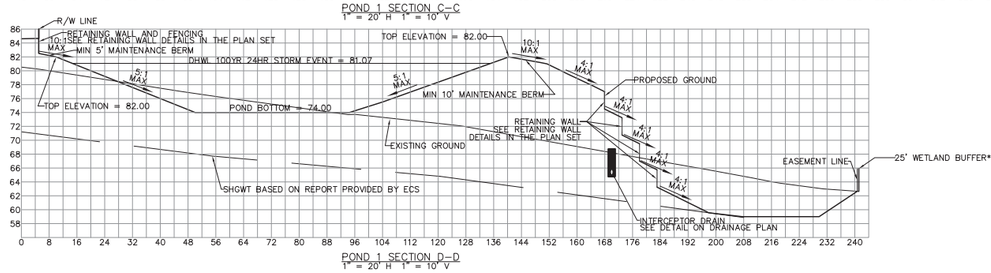
POND 2 SECTION A-A
1" = 20' H 1" = 10' V



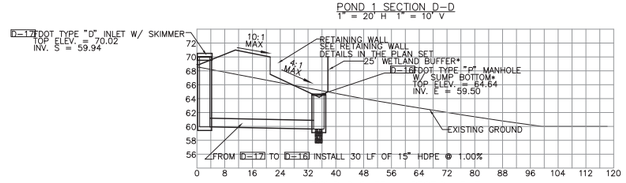
POND 2 SECTION B-B
1" = 20' H 1" = 10' V



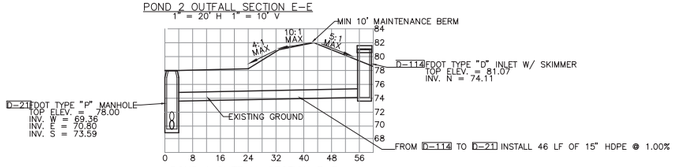
POND 1 SECTION C-C
1" = 20' H 1" = 10' V



POND 1 SECTION D-D
1" = 20' H 1" = 10' V



POND 2 OUTFALL SECTION E-E
1" = 20' H 1" = 10' V



POND 1 OUTFALL SECTION F-F
1" = 20' H 1" = 10' V

= LOCATION OF DOUBLE ROW OF SILT FENCE ON THE SECTIONS

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FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

FLOOD PLAIN AND POND SECTIONS

REVISIONS

No.	Date	Description
1.		
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DESIGNED BY:	JAF
DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	1" = 10' H 1" = 5' V OR AS NOTED

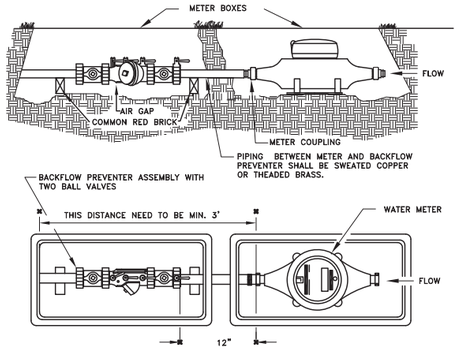
SHEET NO.

C-12

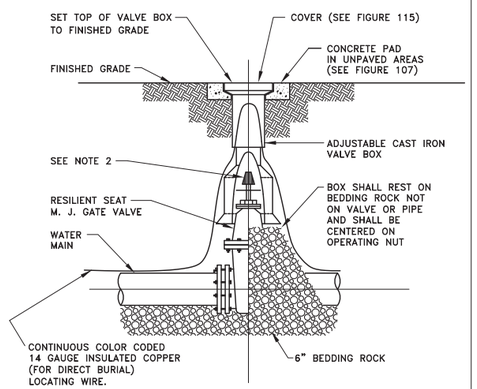
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JAMES A. FRASER, PE #58030

POTABLE WATER SERVICE DETAIL
FOR LOTS SERVED WITH RECLAIMED WATER



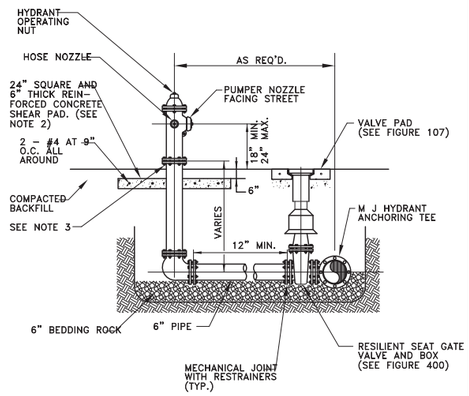
1. A 3' PIECE OF STRAIGHT PIPE MUST BE CONNECTED TO METER USING THE DESIGNATED HOLES INTHE METER BOX BEFORE ANY ANGLES ARE CONNECTED. THE SAME RULES APPLY FOR DOUBLE METER HOOK-UPS.
2. BACKFLOW DEVICE AND METER ARE TO BE SET BY CITY FOR RESIDENTIAL, BY CONTRACTOR FOR NONRESIDENTIAL..



NOTES:

1. PVC EXTENSIONS MAY BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO WITHIN A 4 FOOT DEPTH BELOW FINISHED GRADE.

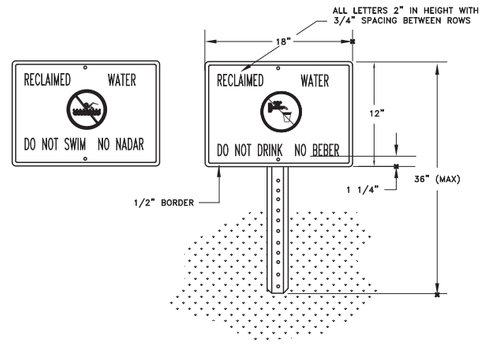
GATE VALVE AND BOX DETAIL



NOTES:

1. FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.
2. THE DEVELOPER SHALL INSTALL THE SHEAR PAD RECESSED 6 INCHES BELOW THE FINISHED GRADE AND SOD THE RECESSED SECTION.
3. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A 12 INCH MINIMUM.
4. FIRE HYDRANTS SHALL BE MUELLER A-423, AMERICAN DARLING B-84, KENNEDY K81A OR CLOW MEDALLION F-2545.
5. FIRE HYDRANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH SECTION 52.7.5 OF THE UTILITIES MANUAL.
6. HYDRANT BARREL TO BE PAINTED OSHA SAFETY RED AND THE CAPS AND BONNETS TO BE PAINTED OSHA SAFETY BLUE.

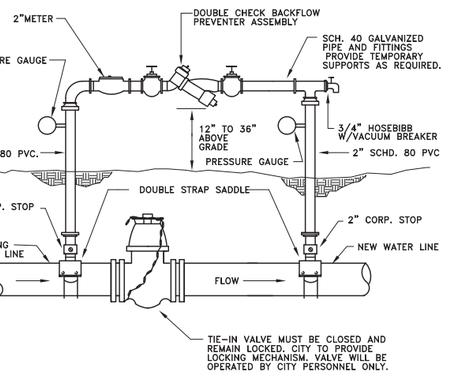
FIRE HYDRANT ASSEMBLY DETAIL



NOTES:

1. HEIGHT OF SIGN WILL DEPEND ON LOCATION AND SURROUNDING LANDSCAPE PLANT TYPES. IN ALL CASES, THE SIGN SHALL BE VISIBLE TO THE PUBLIC.
2. BACKGROUND SHALL BE WHITE. LETTERS AND FIGURES SHALL BE BLACK. PROHIBITIVE SYMBOL SHALL BE RED.
3. ENGINEERING GRADE REFLECTIVE MATERIALS SHALL BE USED.
4. POST SHALL BE U CHANNEL 12 FT. 2 LB. HOT ROLLED HIGH TENSILE RAIL OR BILLET STEEL, HOT DIP GALVANIZED PER ASTM A-123.
5. MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
6. SIGNS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY APPROVED ENGINEERING PLANS AND/OR AS APPROVED BY PUBLIC SERVICES DEPARTMENT.

RECLAIMED WATER ADVISORY SIGN

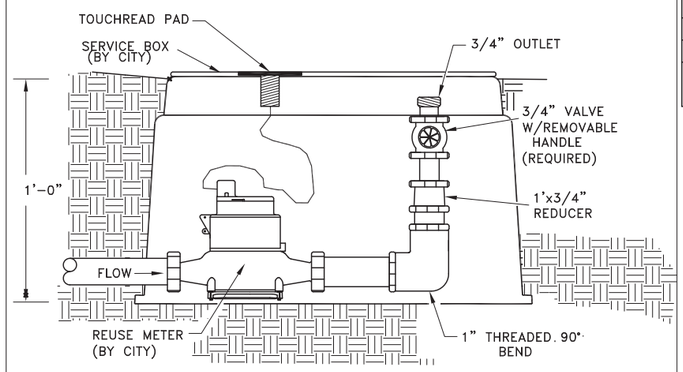


NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, ASSEMBLY, AND THE INSTALLATION OF THE DEVICE.

TEMPORARY JUMPER CONNECTION

RECLAIMED WATER SERVICE CONNECTION



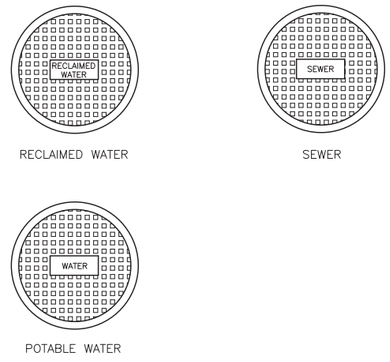
MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S). *									
	PIPE SIZE								
	6"	8"	10"	12"	16"	18"	20"	24"	30"
90° BEND	43'	56'	67'	78'					
45° BEND	18'	23'	28'	32'					
22-1/2° BEND	9'	11'	13'	16'					
11-1/4° BEND	4'	5'	7'	8'					
PLUG OR BRANCH OF TEE	92'	119'	143'	168'					

NOTES:

1. FITTINGS SHALL BE RESTRAINED JOINT TYPE.
2. INSTALL FULL LENGTHS OF PIPE WITH TOTAL LENGTH CONTAINING ONLY RESTRAINED JOINTS EQUAL TO OR GREATER THAN LENGTH SHOWN IN TABLE.
3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
   TYPE OF PIPE: PVC *
   WORKING PRESSURE: 150 P.S.I.*
   SOIL DESIGNATION: SAND-SILT*
   LAYING CONDITIONS: 2 *
6. FOR PIPE ENCASED IN POLYETHYLENE, USE VALUES GIVEN IN PARENTHESES OR INCREASE THE GIVEN VALUE BY A FACTOR OF 1.5.

* TO BE COMPLETED BY THE ENGINEER

RESTRAINED PIPE TABLE. (PVC)
POTABLE WATER



RECLAIMED WATER — SEWER

POTABLE WATER

NOTE:

PRIME W/TNEMEC SERIES 66 AND FINISH CONT. W/TNEMEC SERIES 73 OR EQUAL.

PURPLE – RECLAIMED WATER

GREEN – SEWER

BLUE – POTABLE WATER

TYPICAL VALVE BOX COVER DETAILS

CENTRAL FLORIDA ENGINEERING
CIVIL ENGINEERING CONSULTANT
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PHONE: (407)719-6040
EMAIL: jfraserpe@earthlink.net
CERTIFICATE OF AUTHORIZATION #25899

FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

RECLAIMED AND POTABLE WATER DETAILS

REVISIONS

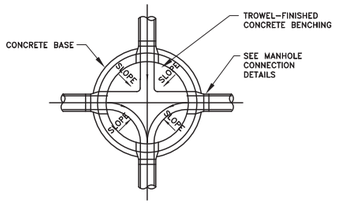
No.	Date	Description
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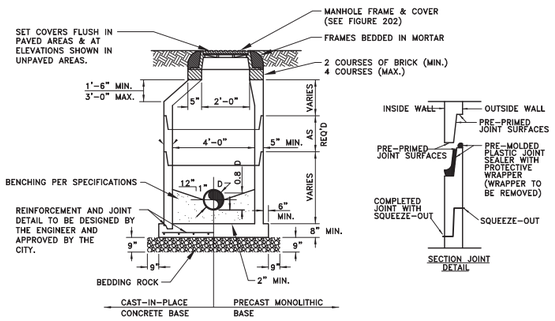
DESIGNED BY:	JAF
DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	AS NOTED

SHEET NO.

C-13

JAMES A. FRASER, P.E. #58030





TYPICAL MANHOLE

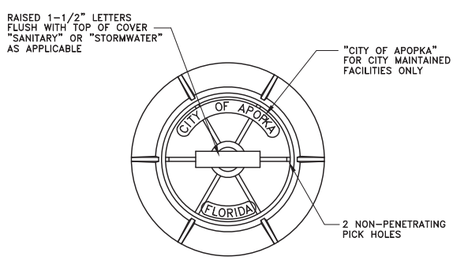
FORCE MAIN MANHOLE LINER

THICKNESS (INCHES)					
DIAMETER (INCHES)	HEIGHT (FEET) 3–6	7–12	13–17	MATERIAL	MANUFACTURER
48					
60					
72					

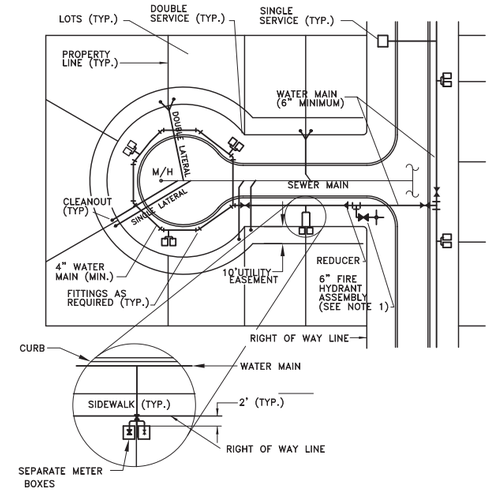
SHALL BE FILLED BY THE ENGINEER

NOTES:

1. MANHOLE SHOWN IS FOR SEWER SIZE 8" THRU 24". SEE SECTION 20.4.3 OF THE MANUAL FOR MANHOLE DIAMETER FOR SEWERS LARGER THAN 24".
2. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE CONNECTION DETAILS.
3. THE THICKNESS OF THE LINER SHALL BE AS PER THE MANUFACTURER RECOMMENDS
4. EACH BENCH WALL SHALL BE A MINIMUM OF 18 INCHES LONG FROM THE WALL OF THE MANHOLE TOWARD THE CENTER.
5. SANITARY SEWER MANHOLES SHALL HAVE FIBERGLASS OR POLYESTER TYPE INTERIOR LINER AS SPECIFIED IN SECTION 42.2 AND 42.3 OF THE UTILITIES MANUAL.



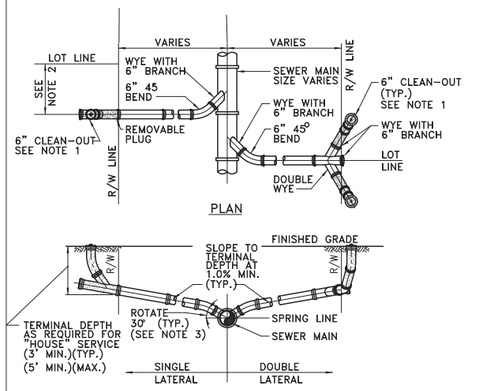
STANDARD MANHOLE FRAME AND COVER



NOTES:

1. ANCHORING TYPE 90° BEND SHALL ONLY BE USED WHERE RIGHT–OF–WAY CONSTRUCTION WILL NOT ALLOW INSTALLATION OF A STRAIGHT ASSEMBLY.

TYPICAL SERVICE LOCATION DETAIL

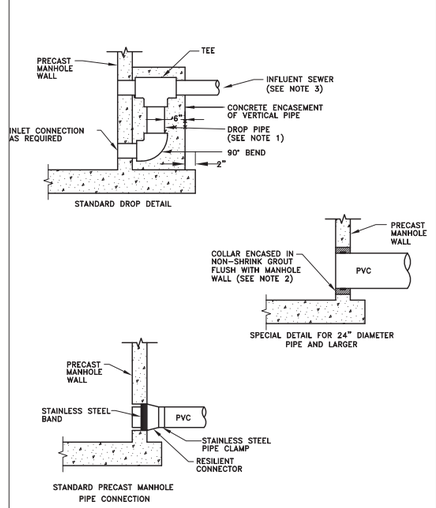


PROFILE

NOTES:

1. CLEAN–OUT (SHOWN SHADED) SHALL BE INSTALLED BY THE BUILDER IN ACCORDANCE WITH STANDARD PLUMBING CODE.
2. LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE.
3. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
4. RESIDENTIAL SERVICES SHALL BE 4 INCHES & NON–RESIDENTIAL SERVICES SHALL BE 6 INCHES IN DIAMETER AS A MINIMUM.
5. ELECTRONIC LOCATOR DEVICES SHALL BE PLACED ADJACENT TO THE STUBOUT FOR EACH SERVICE. (SEE SECTION 43.4 OF THE UTILITIES MANUAL).

SERVICE LATERAL DETAIL



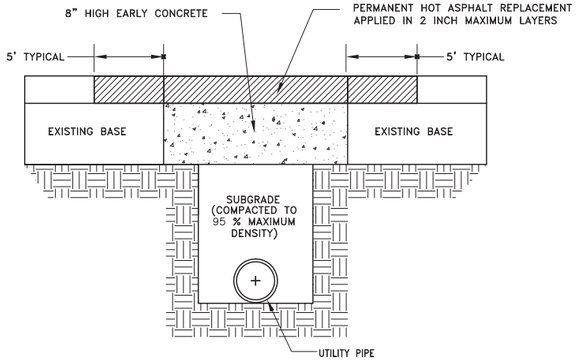
NOTES:

1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. THE CITY MAY APPROVE ALTERNATE WATERTIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.
3. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 24" OR MORE ABOVE THE OUTFLOW PIPE INVERT.

MANHOLE CONNECTION DETAILS

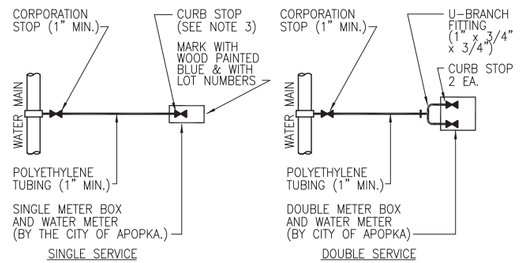
NOTE:

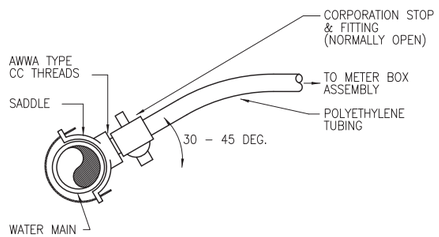
SUB–GRADE TO BE COMPACTED TO 95% MAX. DENSITY AS DETERMINED BY AASTHO T–180 CUT TO BE REPLACED WITH AN 8" 3000 PSI HIGH EARLY CONCRETE TO TOP OF EXISTING BASE. CUT AREA TO BE PLATED OR PROTECTED ON THE DAY OF POUR. EXISTING SURFACE TO BE SAW CUT TO AN AREA OF FIVE FEET (5') BEYOND BASE CUT.



STANDARD ROADWAY OPENCUT DETAIL

FINAL RESTORATION - TYPICAL OF MAJOR OPEN CUTS





NOTES:

1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.
2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
3. EACH SERVICE SHALL TERMINATE AT A CURB STOP(S) WHICH SHALL BE BURIED APPROXIMATELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2" X 2" X 18" STAKE WITH THE TOP PAINTED BLUE AND MARKED WITH THE NUMBER OF THE LOT(S) TO BE SERVED.

WATER SERVICE CONNECTION DETAILS

(FIG. 405)

CENTRAL FLORIDA ENGINEERING
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CERTIFICATE OF AUTHORIZATION #25899

FAIRCLOTH LAKES SUBDIVISION CITY OF APOPKA

GENERAL, SANITARY SEWER AND DRAINAGE DETAILS

REVISIONS

No.	Date	Description
1.		
2.		
3.		
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9.		
10.		

DESIGNED BY:	JAF
DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	NTS

SHEET NO.

C-14

JAMES A. FRASER LICENSE No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES A. FRASER, PE #58030

PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS								
	POTABLE WATER		RECLAIMED WATER*		SANITARY SEWER (GRAVITY & F.M.)		STORM SEWER		ACCEPTABLE VARIANCES
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	
POTABLE WATER	–	–	5' C/C	18"	10'	18"	10'	18"	SEE GENERAL NOTES: NO. 4
RECLAIMED* WATER	5' C/C 5' O/O	18"	–	–	5' C/C	18"	–	–	
SANITARY SEWER	10'	18"	5' C/C	18"	–	–	–	–	

GENERAL NOTES:

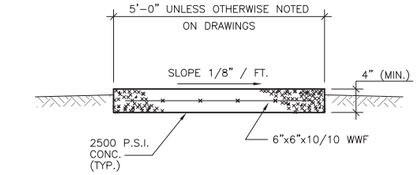
1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
2. FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 17-610. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.
3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.

C/C – DENOTES CENTER OF PIPE TO CENTER OF PIPE.

O/O – DENOTES OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

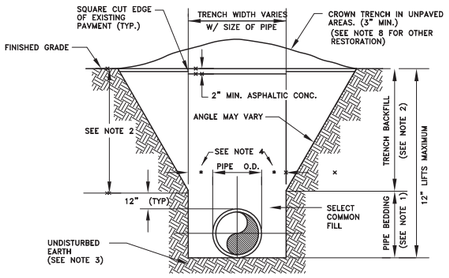
5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

HORIZONTAL & VERTICAL SEPARTION REQUIREMENTS



CONCRETE WALKWAY DETAIL

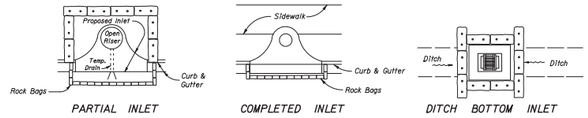
NOT TO SCALE



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETERS LESS THAN 24", AND 24" FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. REFER TO SECTION 32.5 OF THE MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY RIGHT-OF-WAY, SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS.
10. ALL UNPAVED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINATE GRASS SPECIES.

TYPE B BEDDING AND OPEN-CUT DETAIL



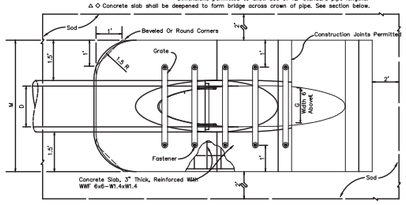
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

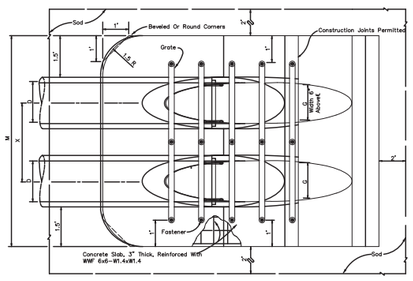
MITERED END SECTION DETAIL

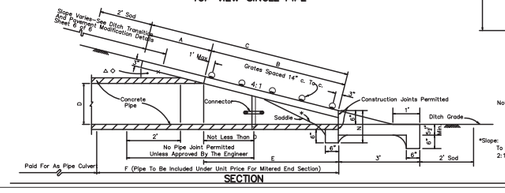
DIMENSIONS & QUANTITIES

D	X	A	B	C	E	F	G	M Single Pipe	M Double Pipe	M Triple Pipe	M Quad Pipe	N	GRATE SIZES Standard Weight	GRATE SIZES Extra Strong	CONCRETE (Cu. Yds.) Single Pipe	CONCRETE (Cu. Yds.) Double Pipe	CONCRETE (Cu. Yds.) Triple Pipe	CONCRETE (Cu. Yds.) Quad Pipe	SODDING (Sq. Yds.) Single Pipe	SODDING (Sq. Yds.) Double Pipe	SODDING (Sq. Yds.) Triple Pipe	SODDING (Sq. Yds.) Quad Pipe
15"	2'–7"	2.27'	4.09'	6.36'	4.03'	8"	1.22'	4.83'	7.61'	9.79'	12.17'	1.19'			0.76	1.16	1.54	1.94	8	10	11	12
18"	3'–1"	2.60'	5.03'	7.45'	5.03'	8"	1.41'	4.92'	7.70'	10.08'	13.46'	1.19'			0.85	1.28	1.71	2.15	9	10	12	13
24"	3'–7"	3.00'	5.86'	8.70'	6.03'	11"	1.73'	5.09'	8.00'	10.55'	13.92'	1.29'			1.03	1.58	2.12	2.65	10	12	13	15
30"	4'–1"	3.33'	6.63'	9.92'	7.03'	11"	2.02'	5.26'	8.30'	10.93'	14.30'	1.29'	24"	5"	1.33	2.08	2.83	3.60	11	13	14	16
36"	4'–7"	3.67'	11.30"	14.18"	11.00"	15"	2.24'	6.47'	11.32'	16.83'	21.99'	1.33'	24"	5"	1.50	2.38	3.33	4.24	13	15	17	20
42"	5'–1"	4.00'	11.97"	14.43"	13.03"	17"	2.45'	7.25'	13.05'	19.23'	25.25'	1.38'	24"	5"	1.50	2.53	4.04	5.26	14	17	19	22
48"	6'–0"	4.92'	15.43'	18.60'	19.03"	19"	2.65'	7.83'	14.58'	21.33'	28.08'	1.42'	24"	5"	1.81	3.26	4.70	6.14	15	18	21	24
54"	7'–6"	5.92'	17.49"	20.88"	17.03"	21"	2.83'	8.92'	16.08'	23.33'	30.45'	1.48'	30"	4"	2.03	3.78	5.54	7.28	17	20	23	27
60"	8'–6"	6.92'	19.55"	23.11"	18.03"	23"	3.00'	9.00'	17.00'	24.00'	34.50'	1.50'	30"	4"	2.28	4.36	6.43	8.50	18	22	25	29

Δ 6.42' Dimensions permitted to allow use of 8' standard pipe lengths.
◇ 10.40' Dimensions permitted to allow use of 12' standard pipe lengths.
Δ ◇ Concrete slab shall be deepened to form bridge across crown of pipe. See section below.



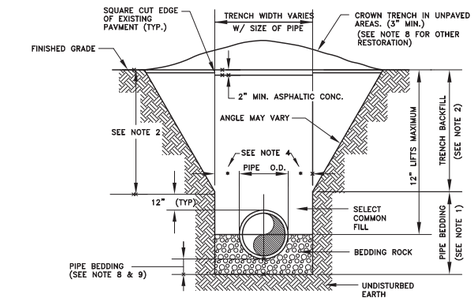




Note: See Sheets 5 and 6 for details and general notes.

*Slope: To | Pipe For Pipes 18" And Smaller 2:1 For Pipes 24" And Larger.

SIDE DRAIN
MITERED END SECTION
SINGLE AND MULTIPLE ROUND CONCRETE PIPE



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. USE OF TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. REFER TO SECTION 32.5 OF THE MANUAL FOR SHEETING AND BRACING IN EXCAVATIONS.
8. GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING IF REQUIRED BY THE CITY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15" AND 6" MINIMUM FOR PIPE DAIMETER 16" AND LARGER.
9. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. THE CITY SHALL DETERMINE IN THE FIELD IF REMOVAL OF UNSUITABLE MATERIAL IS REQUIRED TO REACH A SUITABLE FOUNDATION.
10. ALL UNPAVED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINATE GRASS SPECIES.
11. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY RIGHT-OF-WAY, SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS.

TYPE A BEDDING AND OPEN-CUT DETAIL

CENTRAL FLORIDA ENGINEERING
CIVIL ENGINEERING CONSULTANT
3586 ALOMA AVE #14
WINTER PARK, FL. 32792
PHONE: (407)719-6040
EMAIL: jfraserpe@earthlink.net
CERTIFICATE OF AUTHORIZATION #25899

FAIRCLOTH LAKES SUBDIVISION
CITY OF APOPKA

MISCELLANEOUS DETAILS

REVISIONS

No.	Date	Description
1.		
2.		
3.		
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10.		

DESIGNED BY:	JAF
DRAWN BY:	JAF
CHECKED BY:	JAF
DATE:	08/02/23
PROJECT NO.	061-002
SCALE:	NTS

SHEET NO.

C-15

JAMES A. FRASER LICENSE No. 58030 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES A. FRASER, P.E. #58030

MAJOR DEVELOPMENT PLAN FOR NEW BEHAVIORAL HEALTH HOSPITAL - ORLANDO HEALTH JV

APOPKA, FLORIDA

REVIEW DOCUMENTS

GENERAL INFORMATION

PROPERTY OWNER

Chu Mu Ching
5355 Lake Lizzie Dr
Saint Cloud, FL 34771
Contact: karrymuching@gmail.com
Phone: 717-701-9777

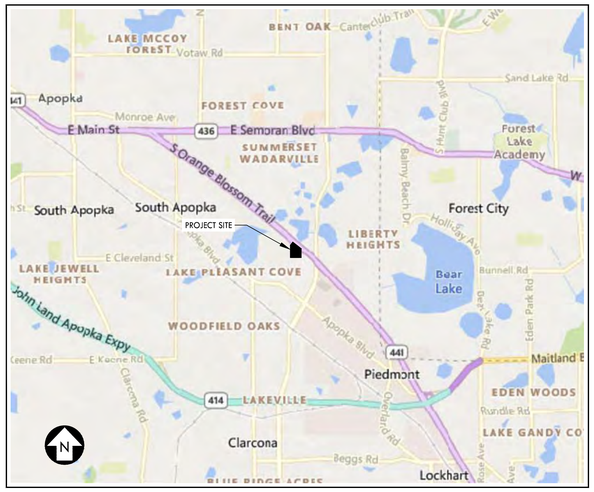
PROPERTY INFORMATION

1452 S ORANGE BLOSSOM TRAIL
APOPKA, FL 32703
PID:13-21-28-0000-00-019

CIVIL ENGINEER

Crunk Engineering LLC
7112 Crossroads Boulevard, Suite 201
Brentwood, TN 37027
Contact: Adam Crunk, PE
Phone: 615.873.1795
Email: adam@crunkeng.com

PROJECT DESCRIPTION: CONSTRUCTION OF A NEW 2-STORY, 144 BED BEHAVIORAL HEALTH HOSPITAL LOCATED ON S ORANGE BLOSSOM TRAIL. THE PROJECT WILL INCLUDE THE INSTALLATION OF ASSOCIATED PARKING AND UTILITIES TO SERVE THE PROPOSED HOSPITAL. STORMWATER MANAGEMENT FACILITIES ARE PROPOSED TO PROVIDE STORMWATER QUANTITY AND QUALITY MEASURES.



LOCATION MAP
NOT TO SCALE

SITE DATA TABLE

SITE ACREAGE: 10.34
EXISTING ZONING: AGRICULTURAL GRAZING OR VACANT
PROPOSED ZONING: C-R REGIONAL COMMERCIAL
PROPOSED USE: HOSPITAL

BUILDING SETBACKS:

ACTUAL:
FRONT = 427 FT
REAR = 104 FT
LEFT SIDE = 159 FT
RIGHT SIDE = 139 FT

REQUIRED:
FRONT = 15 FT MIN
REAR = 10 FT MIN / 30 FT MIN WHEN ADJACENT TO A RESIDENTIAL USE OR A RESIDENTIAL DISTRICT
SIDE = 10 FT MIN

MAXIMUM BUILDING HEIGHT: 35 FT

TOTAL BUILDING SQ-FT = 99,497

FLOOR AREA RATIO = 99,497 SQ-FT / 450,070 SQ-FT = .221

REQUIRED PARKING: 1.2 SPACES / BED

PROVIDED PARKING:
REGULAR SPACES = 162
A.D.A SPACES = 6
TOTAL SPACES = 168

IMPERVIOUS AREA TO TOTAL AREA COVERAGE CALCULATIONS:
4.16 IMPERVIOUS ACRES / 10.34 TOTAL ACRES = 40.2% COVERAGE

ADJACENT NORTHERN PROPERTIES
EXISTING FUTURE LAND USE CATEGORIES:
UNINCORPORATED AND COMM
ZONING DESIGNATIONS:
UNINCORPORATED AND C-C

ADJACENT EASTERN PROPERTY
EXISTING FUTURE LAND USE CATEGORY:
UNINCORPORATED
ZONING DESIGNATION:
UNINCORPORATED

ADJACENT WESTERN PROPERTIES
EXISTING FUTURE LAND USE CATEGORIES:
INST_PU AND UNINCORPORATED
ZONING DESIGNATIONS:
O AND UNINCORPORATED

ADJACENT SOUTHERN PROPERTY
EXISTING FUTURE LAND USE CATEGORY:
COMM
ZONING DESIGNATION:
C-R

PER TABLE 5.4.4: REQUIRED OPEN SPACE SET-ASIDES IN THE APOPKA LAND DEVELOPMENT CODE (LDC), WE ARE IN THE FOLLOWING 2 CATEGORIES; "COMMERCIAL BASE, AND THE INST AND AIR DISTRICTS" AND "PUBLIC, CIVIC, AND INSTITUTIONAL USES", WHICH REQUIRES 10% MINIMUM OPEN SPACE SET-ASIDE AREA AS A PERCENTAGE OF DEVELOPMENT SITE AREA.
REQUIRED OPEN SPACE AREA = 45,007 SQ-FT
PROVIDED OPEN SPACE AREA = 158,197 SQ-FT

GREEN BUILDING STANDARDS:

TOTAL GREEN BUILDING POINTS = 5.75

PROVIDE RAIN GARDENS, STREET-SIDE SWALES, OR OTHER APPROPRIATE STORM WATER INFILTRATION SYSTEM(S) THAT CAPTURES A MINIMUM OF 25 PERCENT OF SITE STORMWATER RUNOFF - 1.00 GREEN BUILDING POINT
- CURRENTLY 53.2% OF THE SITE'S STORMWATER RUNOFF IS BEING CAPTURED, GRANTING 1.00 GREEN BUILDING POINT.

RETAIN AT LEAST 20 PERCENT OF EXISTING PRE-DEVELOPMENT NATURAL VEGETATION - 0.75 GREEN BUILDING POINT
- CURRENTLY 35.1% OF THE SITE'S EXISTING NATURAL VEGETATION WILL BE RETAINED, GRANTING 0.75 GREEN BUILDING POINTS.

ELEVATE NEW AND/OR EXISTING STRUCTURES MORE THAN 3 FEET ABOVE BASE FLOOD ELEVATION (BFE) - 0.50 GREEN BUILDING POINTS PER FOOT ABOVE BFE
- THE SITE'S HIGHEST BFE IS 82 FT AND THE BUILDING ELEVATION IS SET TO 86 FT, GRANTING 2 GREEN BUILDING POINTS.

PROVIDE MORE BICYCLE PARKING THAN REQUIRED BY SEC. 5.1.11, BICYCLE PARKING STANDARDS, WHILE ENSURING THAT ALL OTHER BICYCLE PARKING STANDARDS IN SECTION 5.1, OFF-STREET PARKING, BICYCLE PARKING, AND LOADING STANDARDS ARE MET - 0.50 GREEN BUILDING POINTS PER ADDITIONAL .5 PERCENT BICYCLE PARKING SPACES
- 10 BICYCLE PARKING SPACES ARE REQUIRED AND 12 ARE BEING PROVIDED, PROVIDING AN EXCESS AMOUNT OF 20%, GRANTING 2 GREEN BUILDING POINTS.

SHEET LIST TABLE

Sheet Number	Sheet Title
C0.0	COVER SHEET
C1.0	EXISTING CONDITIONS
C1.1	EXISTING FEMA FLOODMAP
C1.2	PROPOSED FEMA FLOODMAP
C2.0	NOTES
C3.0	INITIAL EROSION & SEDIMENT CONTROL PLANS
C3.1	INTERIM EROSION & SEDIMENT CONTROL PLANS
C3.2	FINAL EROSION & SEDIMENT CONTROL PLANS
C3.3	EROSION & SEDIMENT CONTROL PLANS DETAILS
C4.0	DEMOLITION PLAN
C4.1	DEMOLITION PLAN
C5.0	SITE LAYOUT PLAN
C5.1	SITE LAYOUT PLAN
C5.2	FIRE TRUCK TURN EXHIBIT
C5.3	MOT EXHIBIT
C6.0	GRADING AND DRAINAGE PLANS
C6.1	GRADING & DRAINAGE PLANS
C6.2	STORM PIPE & STRUCTURE TABLES
C6.3	PROPOSED WETLAND IMPACT
C6.4	EXISTING FLOODPLAIN EXHIBIT
C6.5	PROPOSED FLOODPLAIN EXHIBIT
C6.6	FLOODPLAIN CROSS SECTIONS
C6.7	FLOODPLAIN CROSS SECTIONS
C7.0	UTILITY PLANS
C7.1	SANITARY SEWER FORCE MAIN EXHIBIT
C8.0	DETAILS
C8.1	DETAILS
C8.2	DETAILS
C8.3	DETAILS
C8.4	DETAILS
L1.0	TREE SURVEY & INVENTORY
L1.1	OVERALL PLANTING PLAN
L1.2	DETAILED PLANTING PLAN
L2.0	PLANTING DETAILS
L2.1	PLANTING DETAILS

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BRENTWOOD, TN 37027
(615) 873-1795
WWW.CRUNKENG.COM

STENGEL-HILL ARCHITECTURE
613 WEST MAIN STREET
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Civil Engineering
Structural Engineering
Skyhook STRUCTURAL ENGINEERING, P.C.
Mechanical/Electrical Engineering
Foodservices Design

ACADIA HEALTHCARE

NOT FOR CONSTRUCTION

ADAM W. CRUNK
LICENSED
No 78574
07/24/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

COVER SHEET
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C0.0

NOT FOR CONSTRUCTION

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STRUCTURAL ENGINEERING, PLLC

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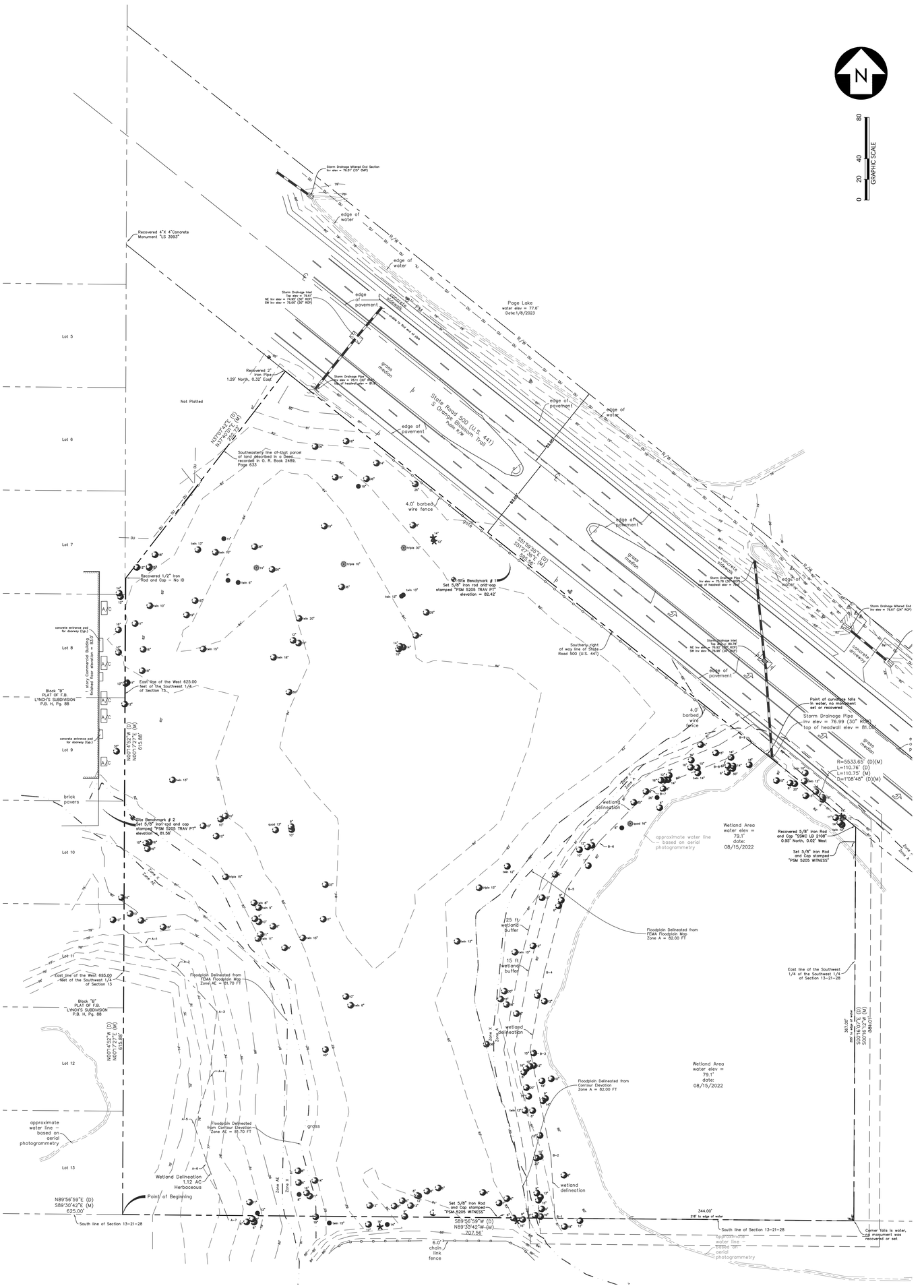
ACADIA HEALTHCARE

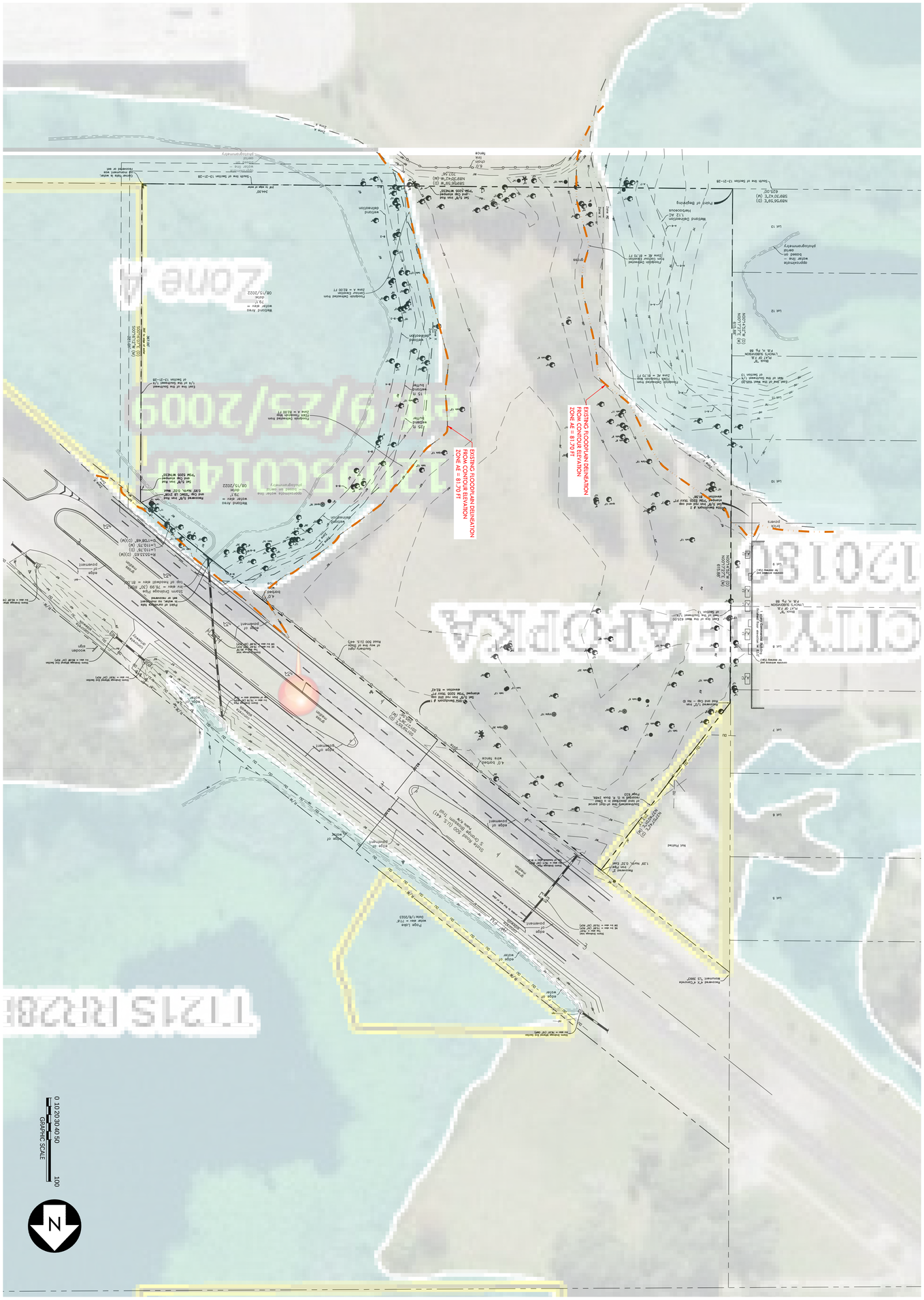
EXISTING CONDITIONS

NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C1.0





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ACADIA HEALTHCARE

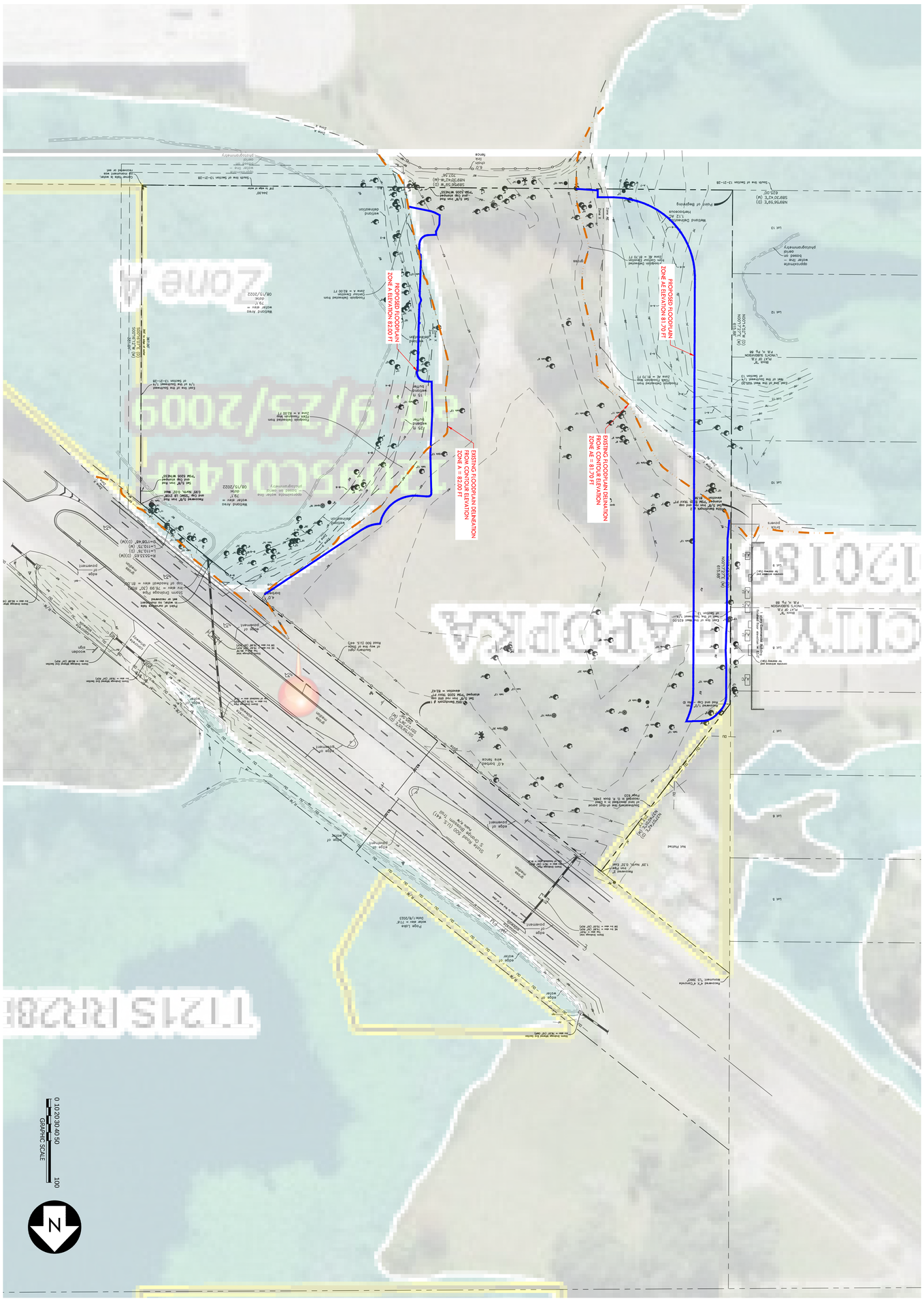
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EXISTING FEMA FLOODMAP

NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C1.1



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Civil Engineering
Structural Engineering
Mechanical/Electrical Engineering
Foodservices Design

NOT FOR CONSTRUCTION

ACADIA HEALTHCARE

PROPOSED FEMA FLOODMAP
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C1.2

GENERAL NOTES:

1. BASE INFORMATION WAS TAKEN FROM A BOUNDARY & TOPOGRAPHIC SURVEY PERFORMED BY BENCHMARK SURVEYING & MAPPING, LLC, DATED AUGUST 30, 2022. CRUNK ENGINEERING LLC SHALL NOT BE RESPONSIBLE FOR ERRORS AND OMISSIONS RESULTING FROM THIS INFORMATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE PROJECT AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS.
3. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL QUANTITIES, TAKE-OFF MEASUREMENTS, MATERIALS, ETC., DURING THE BID PROCESS. ANY QUANTITIES PROVIDED ON PLANS ARE PROVIDED AS A COURTESY. WHEN DISCREPANCIES OCCUR, THE PHYSICAL PLAN TAKES PRECEDENCE.
5. A COPY OF THE ELECTRONIC DRAWING FILE MAY BE REQUESTED FROM ENGINEER BY CONTRACTOR TO PROVIDE COORDINATES FOR LOCATION IN FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST ELECTRONIC FILES AFTER ANY REVISIONS TO PLANS, IF ANY OCCUR.
6. THE CONTRACTOR SHALL CHECK ALL EXISTING CONDITIONS, UTILITY INVERTS, UTILITY ROUTINGS, UTILITY CROSSINGS, AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION.
7. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL CALL NATIONAL ONE CALL (811) 72 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION. THE CONTRACTOR SHALL REPAIR ANY DAMAGED UTILITIES ACCORDING TO LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS. ALL AS-BUILTS SHALL BE PREPARED IN ACCORDANCE WITH LOCAL AGENCY(S) REQUIREMENTS. IF A CERTIFIED AS-BUILT SURVEY IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A STAMPED SURVEY AND SUBMITTING TO ENGINEER.
9. THE CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF CONSTRUCTION. CARE SHALL BE TAKEN TO PROTECT ANY UTILITIES, TREES, BUILDINGS ETC. WHICH ARE TO REMAIN AND NOT TO BE DISTURBED BY THE CONSTRUCTION.
10. EXISTING PAVEMENT OF PUBLIC ROADWAYS SHALL BE PATCHED IN ACCORDANCE WITH LOCAL AGENCY STANDARDS WHEREVER UTILITY INSTALLATION REQUIRES REMOVAL OF THE EXISTING PAVEMENT. COORDINATE PAVEMENT TRENCHING LOCATIONS WITH SITE CIVIL, PLUMBING AND ELECTRICAL PLANS.
11. DIMENSIONS AND COORDINATES PROVIDED ARE TO FACE OF CURB AND/OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
13. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WORKS SUCH AS BRACING, SHEETING AND SHORING, BLASTING PROTECTION, WARNING LIGHTS AND BARRICADES, ETC. AS MAY BE NECESSARY FOR THE PROTECTION OF LIFE AND PROPERTY FOR HIS OWN EMPLOYEES AND THE GENERAL PUBLIC.
14. PORTIONS OF THE WORK SHOWN ON THESE PLANS MAY REQUIRE TRENCH AND/OR MASS EXCAVATION. IN SOME CASES, THIS WILL REQUIRE THE REMOVAL OF ROCK. IN THE USE OF EXPLOSIVES FOR THE SUBSEQUENT EXCAVATION OF ROCK MATERIAL, ALL APPLICABLE LOCAL AND STATE REQUIREMENTS REGARDING THE USE AND STORAGE OF EXPLOSIVE MATERIAL SHALL BE FOLLOWED. THE PROPER PERMITS MUST BE SECURED AND PRE-BLAST SURVEYS WILL BE CONDUCTED IN AREAS WHERE ADJACENT PROPERTIES OR IMPROVEMENTS OFF OF THE PROJECT PROPERTY COULD BE IMPACTED. IN PORTIONS OF THE PROJECT WHERE TRENCH EXCAVATION IS REQUIRED, THE CONTRACTOR WILL BECOME FAMILIAR WITH ALL APPLICABLE TRENCH SAFETY REQUIREMENTS AND REGULATIONS AND TAKE THE NECESSARY MEASURES TO INSURE THE SAFETY OF HIS EMPLOYEES AND ANY OTHER INDIVIDUALS HAVING A NEED TO BE IN AND AROUND THE WORK.
15. ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR TO THE LOCAL AGENCY(S) SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LIMITS OF DEMOLITION WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL. UPON REMOVAL NO ROOT GREATER THAN THREE INCHES IN DIAMETER SHALL REMAIN WITHIN FIVE FEET OF AN UNDERGROUND STRUCTURE OR UTILITY LINE OR UNDER PAVED FOOTINGS OR PAVED AREAS.
3. IN AREAS WHERE EXISTING PAVEMENT, WALKS, OR CURBS ARE TO BE REMOVED, SAW CUT TO PROVIDE A CLEAN EDGE. COORDINATE EXTENT OF PAVEMENT DEMOLITION WITH THE LIMIT OF IMPROVEMENTS ON THE SITE LAYOUT PLAN AND UTILITY PLAN.
4. THE CONTRACTOR SHALL COORDINATE PHASING OF THE DEMOLITION WITH THE OWNER'S REPRESENTATIVE AND UTILITY PROVIDERS PRIOR TO BEGINNING WORK. DISRUPTION OF EXISTING UTILITY SERVICES AND TRAFFIC PATTERNS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE AND INITIATED ONLY AFTER APPROVAL BY THE LOCAL AGENCY(S) AND UTILITY PROVIDER(S).
5. THE EXISTING SITE CONTAINS AN UNDERGROUND IRRIGATION SYSTEM. THE CONTRACTOR MUST PROVIDE CAPS FOR LINES THAT MUST BE CUT, AND RE-ROUTE THE IRRIGATION SYSTEM TO ACCOMMODATE EXCAVATION FOR THE PROPOSED PROJECT. THE IRRIGATION SYSTEM SHALL BE REINSTALLED ON A DESIGN BUILD BASIS PRIOR TO THE END OF CONSTRUCTION.
6. NO UTILITY OR STORM SEWER LINES SHALL BE DEMOLISHED UNTIL THE NEW LINES HAVE BEEN INSTALLED AND ARE PLACED INTO OPERATION.
7. THE CONTRACTOR SHALL INCORPORATE INTO HIS WORK ANY ISOLATION VALVES OR TEMPORARY PLUGS REQUIRED TO CONSTRUCT NEW UTILITY LINES AND DEMOLISH EXISTING UTILITY LINES.
8. WHERE WATER LINE AND SEWER LINE ABANDONMENT IS PLANNED, THE CONTRACTOR MAY ABANDON WATER LINES AND SEWER LINES IN PLACE WHERE THEY OCCUR AT LEAST 24 INCHES (TO TOP OF PIPE) BELOW FINAL SUBGRADE ELEVATIONS AND OUTSIDE THE BUILDING FOOT PRINT. ALL UTILITY LINES BEING ABANDONED IN PLACE SHALL HAVE ALL ENDS PERMANENTLY CLOSED USING A CONCRETE PLUG.
9. CAVITIES AND TRENCHES LEFT BY DEMOLITION WORK SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
10. ALL MATERIALS BEING REMOVED AND NOT RELOCATED UNDER THE NEW CONSTRUCTION, INCLUDING TREES AND SHRUBS, SIGNS, LIGHT POLES, UTILITY STRUCTURES, ETC., SHALL BE FIRST OFFERED TO THE OWNER'S REPRESENTATIVE AND IF NOT ACCEPTED SHALL THEN BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

SITE GRADING NOTES:

1. THE EXISTING AND PROPOSED TOPOGRAPHIC INFORMATION IS BASED OFF THE TOPOGRAPHIC SURVEY PERFORMED BY BENCHMARK SURVEYING & MAPPING, LLC, DATED AUGUST 30, 2022. ELEVATIONS ARE BASED OF NAVD 88. BENCHMARK LOCATION AND ELEVATIONS ARE AS REPRESENTED BY THE SURVEYOR AT THE TIME OF THE SURVEY. THE CONTRACTOR SHALL VERIFY ITS CORRECTNESS PRIOR TO CONSTRUCTION.
2. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 7.03 ACRES.
3. THE SUBJECT PROPERTY DOES LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO PANEL No. 12095C0140F OF THE F.E.M.A. FLOOD INSURANCE RATE MAPS FOR ORANGE COUNTY, FLORIDA, DATED SEPTEMBER 25, 2009.
4. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
5. THE CONTRACTOR SHALL CHECK EXISTING GRADES AND DIMENSIONS PRIOR TO BEGINNING WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER. THIS GRADING & DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED. A GEOTECHNICAL SOILS REPORT HAS BEEN PREPARED AND IS AVAILABLE FROM THE OWNER. DETERMINATION OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED IS THE CONTRACTOR'S SOLE RESPONSIBILITY.
6. IF ANY SPRINGS OR UNDERGROUND STREAMS ARE EXPOSED DURING CONSTRUCTION THE OWNER'S REPRESENTATIVE AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY. PERMANENT MEDIATION MAY BE REQUIRED, THE LOCATION AND SPECIFICATION OF WHICH WILL BE DETERMINED BY THE CONDITIONS WHICH ARE ENCOUNTERED.
7. THE PROPOSED GRADING AND DRAINAGE PLAN CONTAIN CONTOUR LINES AND SPOT ELEVATIONS RESULTING FROM AN ENGINEERED DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEM WITH THE CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY.
8. ALL CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON PLANS. FILL SLOPES OF 3:1 AND GREATER SHALL BE PLACED AND COMPACTED A MINIMUM OF 5 FEET BEYOND THE PROPOSED SLOPE LIMITS AND THEN EXCAVATED BACK TO THE PROPOSED LOCATION.
9. THE MAXIMUM SLOPE WITHIN ACCESSIBLE PARKING SPACES SHALL BE 2.0% IN ANY DIRECTION. THE MINIMUM GRADE ON ASPHALT OR CONCRETE PAVING SHALL BE 1.0% UNLESS OTHERWISE INDICATED ON PLANS.
10. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. SLIGHT FIELD ADJUSTMENT MAY BE REQUIRED. THE CONTRACTOR WILL BE REQUIRED TO ADJUST GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER.
11. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES DURING AND AFTER CONSTRUCTION. SOIL AFFECTED BY PERCHED WATER IN FOUNDATION AND PAVEMENT AREAS MUST BE UNDERCUT AND REPLACED WITH SUITABLE FILL MATERIALS APPROVED BY A GEOTECHNICAL ENGINEER. GROUNDWATER INFILTRATION INTO EXCAVATIONS SHOULD BE EXPECTED, AND THE WATER SHALL BE REMOVED USING GRAVITY DRAINAGE OR PUMPING.
12. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO COMPACT FILL SUFFICIENTLY AROUND AND OVER ALL PIPES, STRUCTURES, VALVE STEMS, ETC., INSIDE THE PROPOSED PAVED AREAS TO AVOID SETTLEMENT. ANY SETTLEMENT DURING THE WARRANTY PERIOD SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. THE CONTRACTOR SHALL NOT DISTURB VEGETATION OR REMOVE ANY TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
14. THE CONTRACTOR SHALL STRIP TOPSOIL FROM ALL CUT AND FILL AREAS AND STOCKPILE. UPON COMPLETION OF GENERAL GRADING THE TOPSOIL SHALL BE PLACED OVER ALL DISTURBED AREAS TO A MINIMUM DEPTH OF 6". CONTRACTOR SHALL PROVIDE ADDITIONAL TOPSOIL IF INSUFFICIENT QUANTITIES EXIST ON SITE. THE CONTRACTOR SHALL PROVIDE MEASURES TO PREVENT SEDIMENT FROM STOCKPILED TOPSOIL OR FILL MATERIAL FROM CONTAMINATING SURROUNDING AREAS OR ENTERING NEARBY STREAMS.
15. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THIS MATERIAL SHALL BE PLACED IN LIFTS AND COMPACTED AS DIRECTED BY THE GEOTECHNICAL ENGINEER (TO 95% STANDARD PROCTOR).
16. THE CONTRACTOR IS RESPONSIBLE FOR PERMITTING ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL FOR SUCH ACTIVITY. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
17. ANY EXCESS EARTH MATERIAL AS A RESULT FROM GRADING ACTIVITIES SHALL BE FIRST OFFERED TO THE OWNER. IF NOT ACCEPTED BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF EARTH MATERIAL OFF SITE AT NO ADDITIONAL COST TO THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPORT SUITABLE MATERIAL FOR GRADING ACTIVITIES IF SUFFICIENT AMOUNTS OF EARTH MATERIAL ARE NOT AVAILABLE ON SITE AT NO ADDITIONAL COST TO THE OWNER.
18. SEGMENTAL WALLS SHALL BE PROVIDED BY THE CONTRACTOR ON A DESIGN BUILD BASIS. WALL DESIGN PLANS STAMPED BY A REGISTERED ENGINEER IN THE STATE OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER AS A SHOP DRAWING AND INCLUDED IN THE CONSTRUCTION DOCUMENTS.
19. TOP OF GRATE ELEVATIONS FOR DRAINAGE STRUCTURES SHALL BE AS SHOWN ON THE DETAIL AND GRADING PLAN, UNLESS NOTED OTHERWISE. THE GRATES SHALL SLOPE WITH THE PAVEMENT AND/OR CURB AND GUTTER GRADES. LOCATION OF DRAINAGE STRUCTURES IS AS SHOWN ON THE GRADING PLAN.
20. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF STORM DRAIN CONNECTIONS AT THE BUILDING WITH THE PLUMBING PLANS.
21. REINFORCED CONCRETE STORM PIPE SHALL MEET ASTM 76CLASS III, WALL TYPE "B" MESH REINFORCEMENT. HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL MEET ASTM F 2648. POLYVINYLCHLORIDE PIPE (PVC) SHALL MEET ASTM D3034, SDR 35.

EROSION CONTROL NOTES:

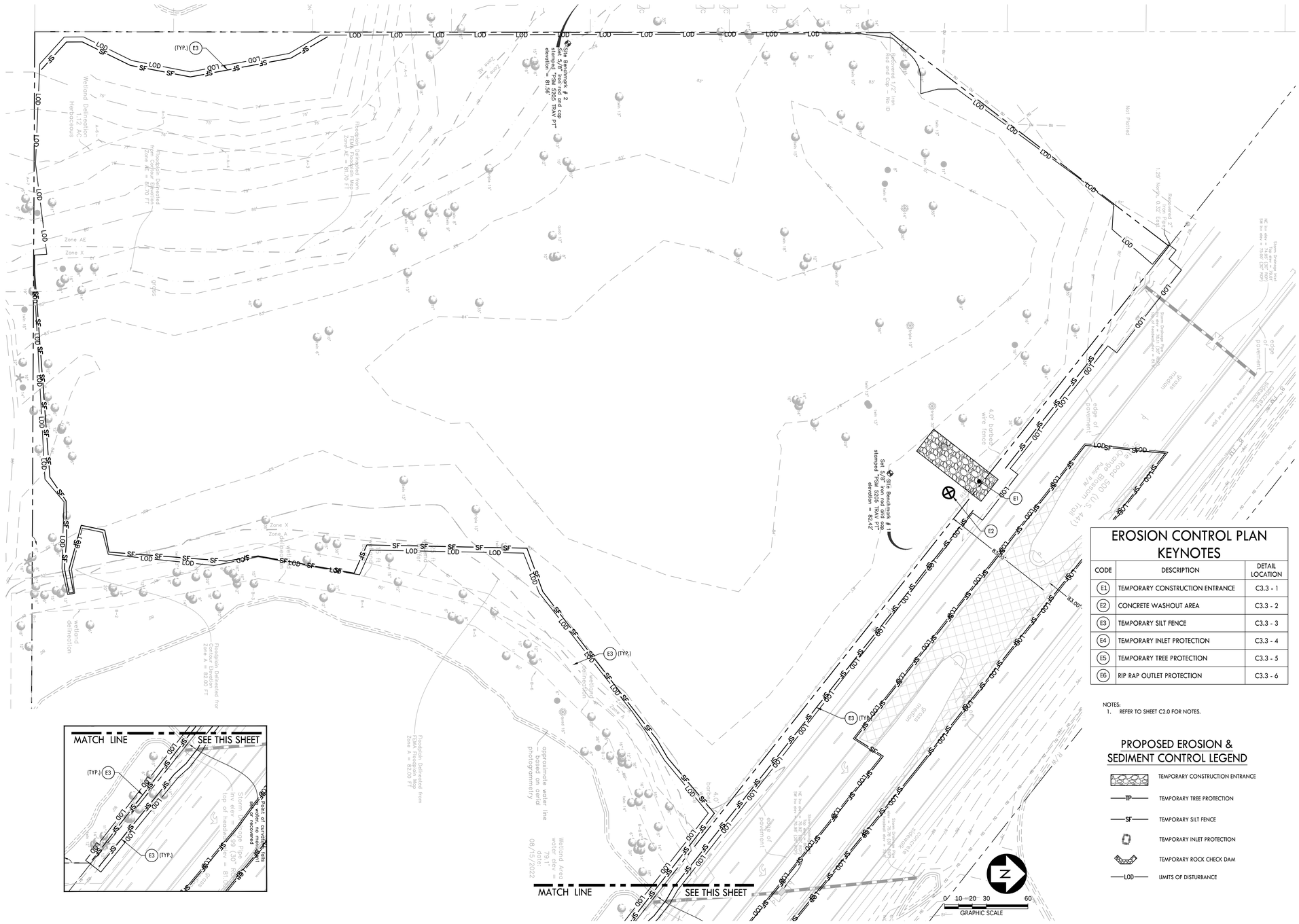
1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE GRADING ACTIVITIES BEGIN AND MUST BE CONSTRUCTED AND MAINTAINED THROUGH THE DURATION OF THE PROJECT. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
2. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
3. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
4. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
5. EXISTING VEGETATION AND GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
6. USE TEMPORARY VEGETATION AND/OR MULCH TO PROTECT BARE AREAS FROM EROSION DURING CONSTRUCTION.
7. INPSECTION AND MAINTENANCE OF EROSION CONTROL DEVICES SHALL BE PERFORMED ON A REGULAR BASIS. IF AT ANY TIME DURING CONSTRUCTION, THE EROSION AND SEDIMENT CONTROL MEASURES INSTALLED FAIL TO FUNCTION PROPERLY, NEED MAINTENANCE OR REPAIR, OR NEED NEW REPLACEMENT IN KIND, THE CONTRACTOR WILL EFFECT SUCH ACTIONS AS ARE NEEDED TO CORRECT THE SITUATION AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY CONSTRUCTION ACTIVITY. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST CONTROL ARE PROHIBITED.
9. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
10. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED. DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED.
11. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT AND EROSION CONTROL DEVICES AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
12. THE CONTRACTOR SHALL REMOVED SEDIMENT BUILD UP FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
13. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONLY AFTER A GOOD STAND OF VEGETATIVE COVER HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.

UTILITY NOTES:

1. ALL WATER LINES, SEWER LINES AND APPURTENANCES SHALL BE CONSTRUCTED OF MATERIALS THAT CONFORM WITH LOCAL AGENCY(S) AND UTILITY PROVIDER DETAILS AND SPECIFICATIONS.
2. SANITARY SEWER SHALL BE OF MATERIAL AS SPECIFIED ON PLANS. POLYVINYLCHLORIDE (PVC) SHALL MEETASTM D3034 SDR35. DUCTILE IRON PIPE (DIP) SHALL MEET ANSI21.51/AWWA C-151 CLASS 52.
3. WATER LINES SHALL BE OF MATERIAL AS SPECIFIED ON PLANS. CEMENT LINED DUCTILE IRON (DIP) SHALL MEET AWWA C-151CLASS 52. POLYVINYLCHLORIDE (PVC) SHALL MEET AWWA C-900, SDR 18, CLASS 150.
4. A MINIMUM COVER OF 36" SHALL BE PROVIDED OVER ALL WATER LINES.
5. THE CONTRACTOR SHALL MAINTAIN A HORIZONTAL SEPARATION OF 10 FEET BETWEEN SANITARY SEWER LINES AND WATER LINES. WHERE THESE CRITERIA CANINOT BE MET, THE CONTRACTOR SHALL MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES.
6. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE SURVEYOR AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
7. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF THE POINT OF CONNECTIONS OF ALL UTILITIES PRIOR TO ORDERING OF MATERIALS OR COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
8. THE CONTRACTOR SHALL COORDINATE THE SEQUENCE OF CONSTRUCTION FOR ALL UTILITY LINES TO PREVENT CONFLICTS WITH EXISTING OR PROPOSED WATER LINES, SANITARY SEWER LINES, SANITARY SEWER SERVICES, STORM SEWERS, OR ANY OTHER UTILITY OR STRUCTURE.
9. BEFORE CONNECTIONS ARE MADE INTO EXISTING UTILITIES, THE NEW LINES ARE TO BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE LOCAL AGENCY(S) AND UTILITY PROVIDER(S) WATER AND SEWER SPECIFICATIONS.
10. REDUCED PRESSURE BACKFLOW PREVENTOR (RPBP) OR DUAL CHECK WILL BE REQUIRED ON ALL TESTS AND FILL LINES (JUMPER) NEEDED FOR WATER MAIN CONSTRUCTION AND MUST BE APPROVED BY LOCAL AGENCY AND UTILITY PROVIDER.
11. THE CONTRACTOR SHALL PROVIDE ALL HORIZONTAL AND VERTICAL BENDS TO ATTAIN THE ALIGNMENT INDICATED ON THE PLANS. PROVIDE VERTICAL BENDS WHERE NECESSARY TO ALLOW WATER LINES TO PASS UNDER OR OVER OTHER UTILITY LINES (ALL BENDS AND BRACES NEEDED MAY NOT BE SHOWN ON THESE PLANS). PROVIDE BRACING AND/OR RODDING AT ALL BENDS AND TEES AS REQUIRED.
12. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF UTILITY CONNECTIONS AT THE BUILDING WITH PLUMBING PLANS.
13. PROPOSED GAS LINE, ELECTRIC LINE AND TELEPHONE LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY PROVIDERS.
14. THE EXISTING SITE CONTAINS AN UNDERGROUND IRRIGATION SYSTEM. THE CONTRACTOR MUST PROVIDE CAPS FOR LINES THAT MUST BE CUT, AND RE-ROUTE THE IRRIGATION SYSTEM TO ACCOMMODATE EXCAVATION FOR THE PROPOSED PROJECT. THE IRRIGATION SYSTEM SHALL BE REINSTALLED ON A DESIGN BUILD BASIS PRIOR TO THE END OF CONSTRUCTION.
15. EXISTING CASTINGS LOCATED IN FILL/CUT AREAS SHALL BE ADJUSTED TO ENSURE THAT THE TOP OF CASTING IS FLUSH WITH THE FINISHED GRADE.
16. THE CONTRACTOR SHALL MARK THE LOCATION OF ALL NEW PVC LINES WITH #8 WIRE.
17. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE BY THE CORING AND RESILIENT SEAL METHOD.
18. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
19. ALL FIRE LINES SHALL BE INSTALLED BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF THE PROJECT.
20. PRIOR TO SUBMITTING OF BID, THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS.

EROSION CONTROL TYPICAL NOTES:

1. ALL CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURE'S SPECIFICATIONS AND THE CONTRACT DOCUMENTS. IF PERIODIC INSPECTIONS OR OTHER INFORMATION INDICATES A CONTROL HAS BEEN USED INAPPROPRIATELY OR INCORRECTLY, THE CONTRACTOR MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS.
2. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS. PERMITTEES SHALL NOT INITIATE REMEDIATION/RESTORATION OF A STREAM WITHOUT CONSULTING THE DIVISION FIRST. THIS PERMIT DOES NOT, HOWEVER, AUTHORIZE ACCESS TO PRIVATE PROPERTY.
3. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS, AND OTHER SEDIMENT CONTROLS AS NECESSARY, AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 33%.
4. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER SHALL BE PICKED UP PRIOR TO ANTICIPATED STORM EVENTS, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.
5. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 20 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
6. CLEARING AND GRUBBING MUST BE HELD TO THE MINIMUM NECESSARY FOR GRADING AND EQUIPMENT OPERATION.
7. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
8. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT MUST BE REPLACED AT THE END OF THE WORK DAY.
9. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON SITE; THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. EXCEPT IN THE FOLLOWING TWO SITUATIONS: 1. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL; OR 2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 15 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE.
11. CONSTRUCTION MUST BE PHASED FOR PROJECTS IN WHICH OVER 50 ACRES OF SOIL WILL BE DISTURBED. AREAS OF THE COMPLETED PHASE MUST BE STABILIZED WITHIN 21 DAYS AFTER ANOTHER PHASE HAS BEEN INITIATED OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES: AFTER USE, SILT FENCES SHOULD BE REMOVED OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.
12. TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE ACCOMPLISHED WITHIN 15 DAYS AFTER FINAL GRADING OR OTHER EARTH WORK. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE.
13. NO SOLID MATERIALS INCLUDING BUILDING MATERIAL, SHALL BE DISCHARGED TO WATERS OF THE UNITED STATES EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT AND/OR TENNESSEE AQUATIC RESOURCE ALTERATION PERMIT
14. OFFS



EROSION CONTROL PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
E1	TEMPORARY CONSTRUCTION ENTRANCE	C3.3 - 1
E2	CONCRETE WASHOUT AREA	C3.3 - 2
E3	TEMPORARY SILT FENCE	C3.3 - 3
E4	TEMPORARY INLET PROTECTION	C3.3 - 4
E5	TEMPORARY TREE PROTECTION	C3.3 - 5
E6	RIP RAP OUTLET PROTECTION	C3.3 - 6

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.

PROPOSED EROSION & SEDIMENT CONTROL LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE
- TP — TEMPORARY TREE PROTECTION
- SF — TEMPORARY SILT FENCE
- TEMPORARY INLET PROTECTION
- TEMPORARY ROCK CHECK DAM
- LOD — LIMITS OF DISTURBANCE

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ACADIA HEALTHCARE

ADAM W. CRUNK — LICENSED PROFESSIONAL ENGINEER — No 78014 — STATE OF FLORIDA — 07/24/23

NOT FOR CONSTRUCTION

INITIAL EROSION & SEDIMENT CONTROL PLANS

NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C3.0

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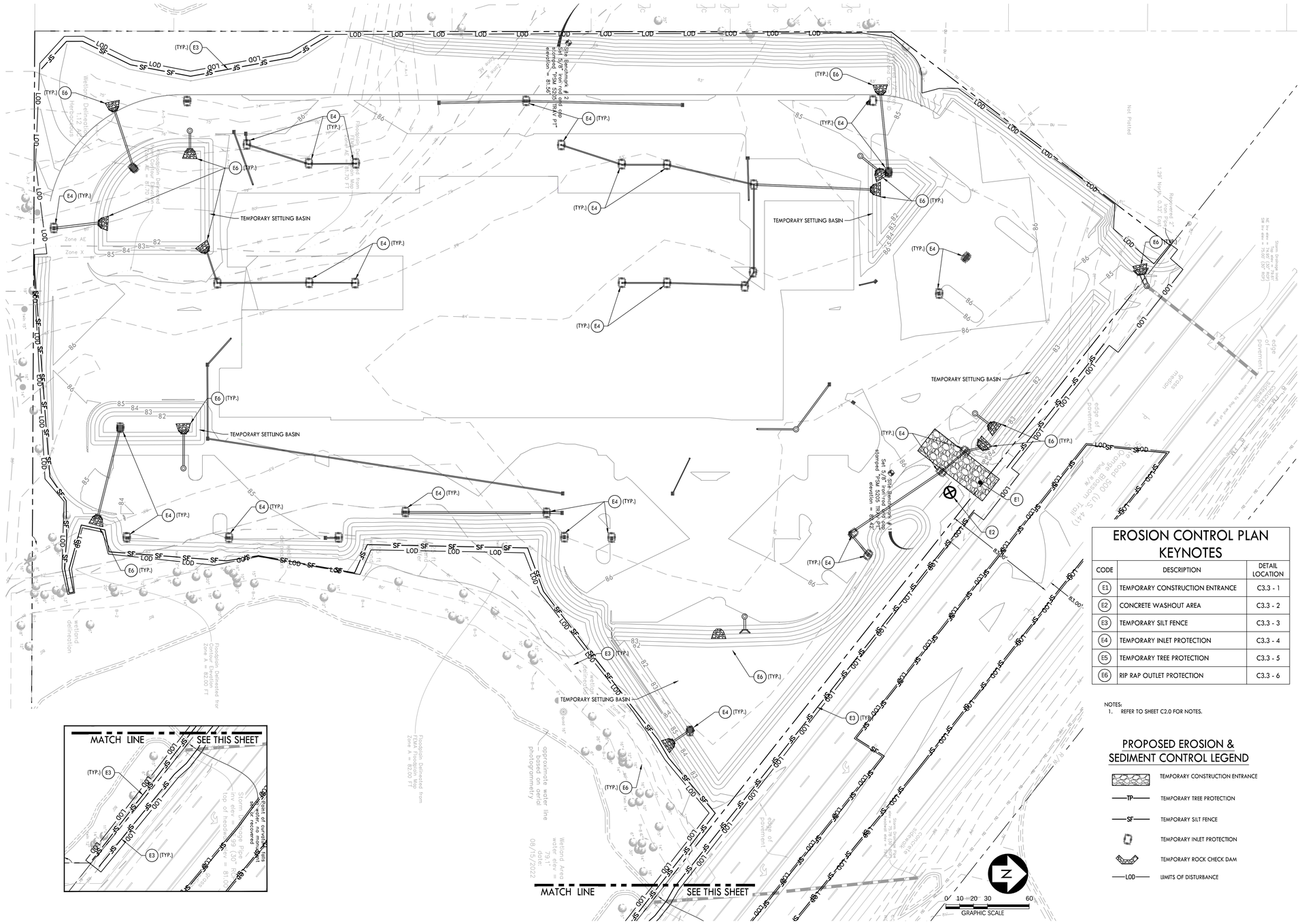
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NOT FOR CONSTRUCTION



EROSION CONTROL PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
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NOTES:
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PROPOSED EROSION & SEDIMENT CONTROL LEGEND

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- TEMPORARY ROCK CHECK DAM
- LOD — LIMITS OF DISTURBANCE

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INTERIM EROSION & SEDIMENT CONTROL PLANS

NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

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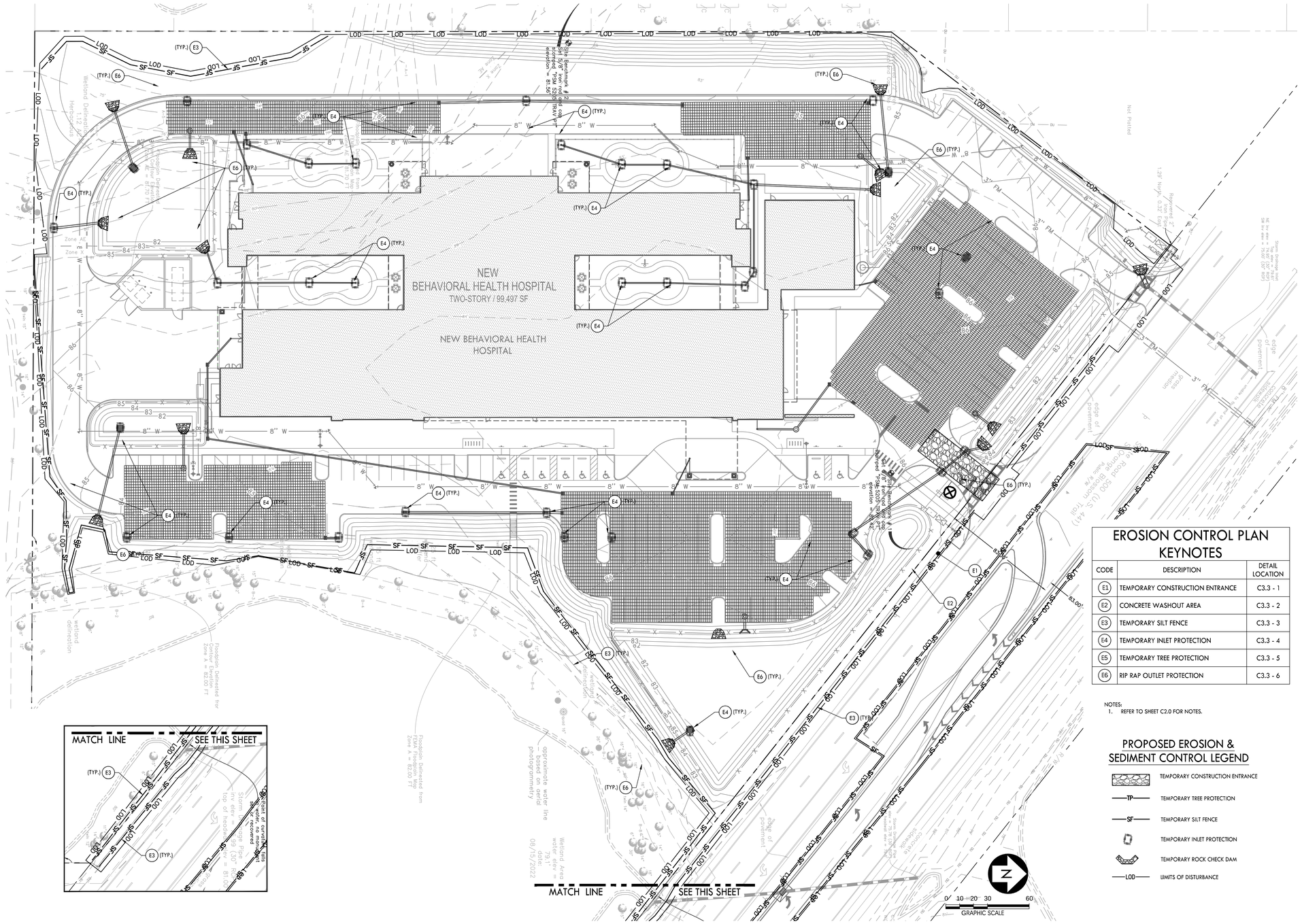
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EROSION CONTROL PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
E1	TEMPORARY CONSTRUCTION ENTRANCE	C3.3 - 1
E2	CONCRETE WASHOUT AREA	C3.3 - 2
E3	TEMPORARY SILT FENCE	C3.3 - 3
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NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.

PROPOSED EROSION & SEDIMENT CONTROL LEGEND

- TEMPORARY CONSTRUCTION ENTRANCE
- TP — TEMPORARY TREE PROTECTION
- SF — TEMPORARY SILT FENCE
- TEMPORARY INLET PROTECTION
- TEMPORARY ROCK CHECK DAM
- LOD — LIMITS OF DISTURBANCE

ACADIA HEALTHCARE

NOT FOR CONSTRUCTION

WILLIAM W. CRUNK
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FINAL EROSION & SEDIMENT CONTROL PLANS

NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

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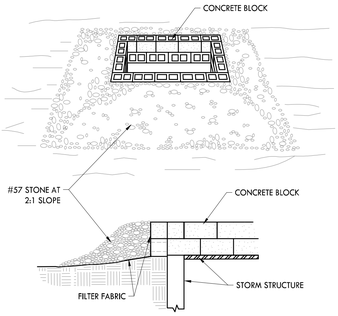


EROSION & SEDIMENT CONTROL PLANS DETAILS

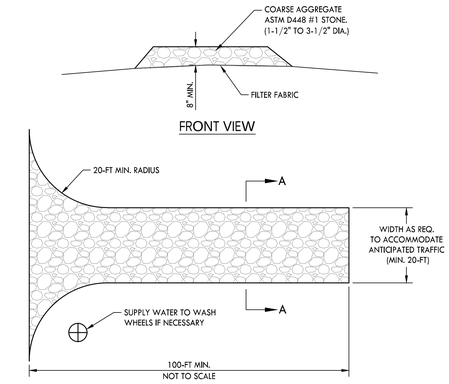
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

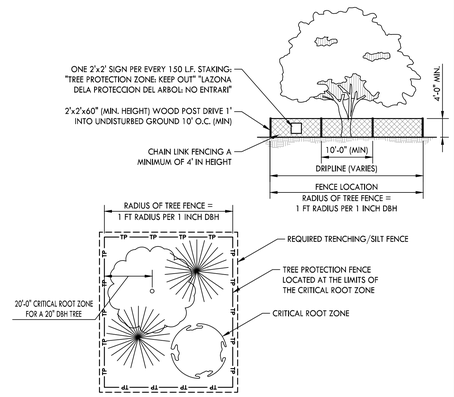
C3.3



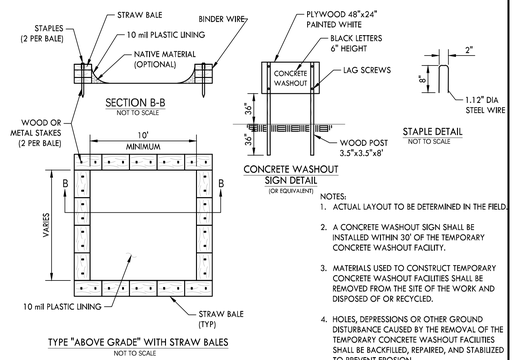
4 TEMPORARY INLET PROTECTION
NOT TO SCALE



1 TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE

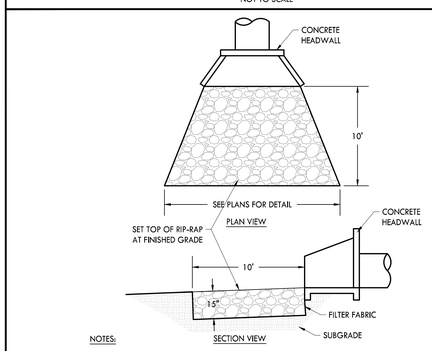


5 TEMPORARY TREE PROTECTION
NOT TO SCALE



NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.

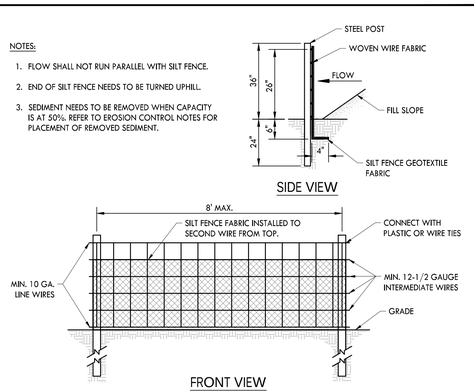
2 CONCRETE WASHOUT AREA
NOT TO SCALE



NOTES:
1. RIP-RAP TO BE d50=7"
2. TOP OF RIP-RAP TO BE AT FINISHED GRADE.

6 RIP-RAP OUTLET PROTECTION
NOT TO SCALE

NOTES:
1. FLOW SHALL NOT RUN PARALLEL WITH SILT FENCE.
2. END OF SILT FENCE NEEDS TO BE TURNED UPHILL.
3. SEDIMENT NEEDS TO BE REMOVED WHEN CAPACITY IS AT 50%. REFER TO EROSION CONTROL NOTES FOR PLACEMENT OF REMOVED SEDIMENT.



3 TEMPORARY SILT FENCE
NOT TO SCALE

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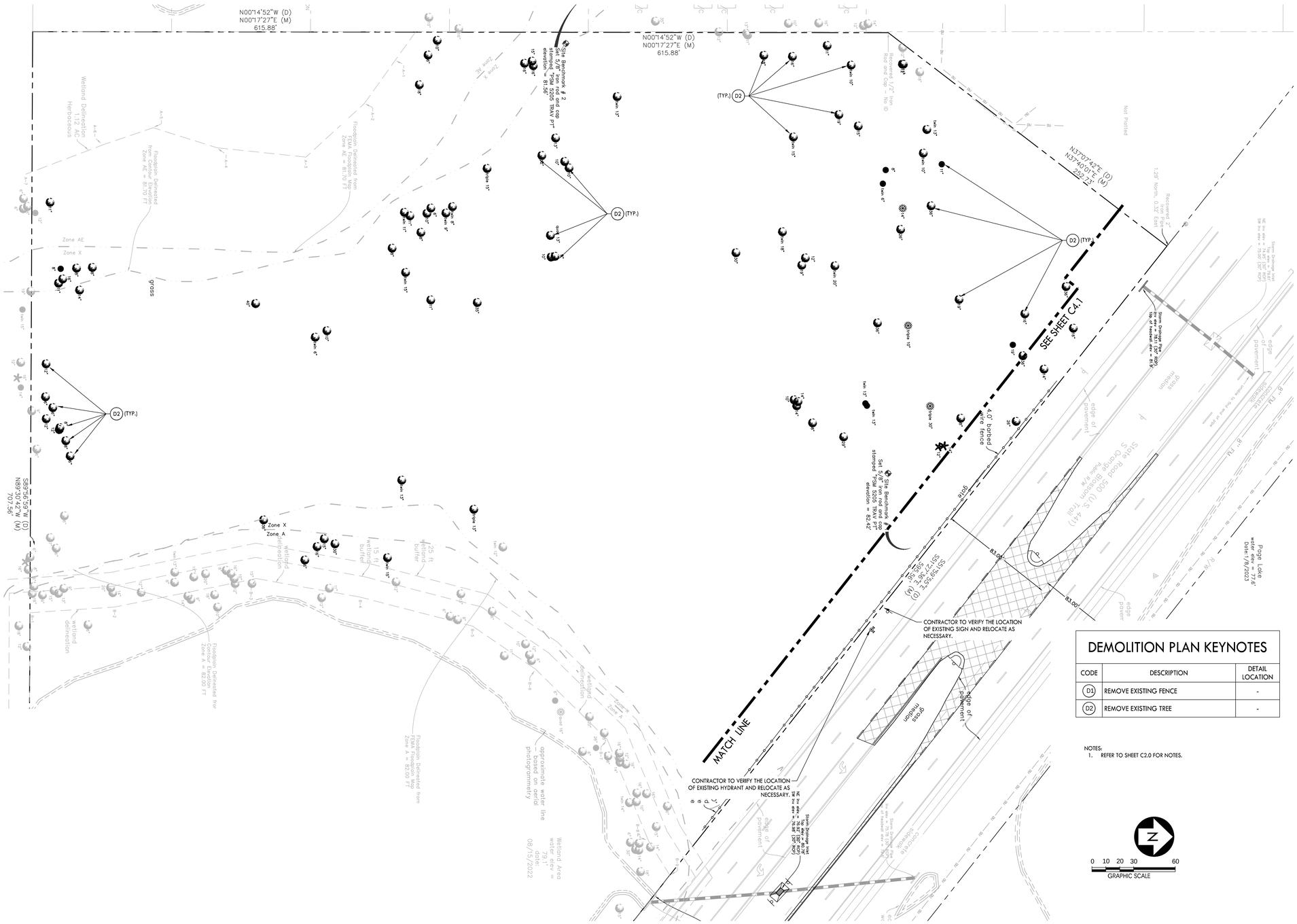
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DEMOLITION PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
(D1)	REMOVE EXISTING FENCE	-
(D2)	REMOVE EXISTING TREE	-

NOTES.
1. REFER TO SHEET C2.0 FOR NOTES.

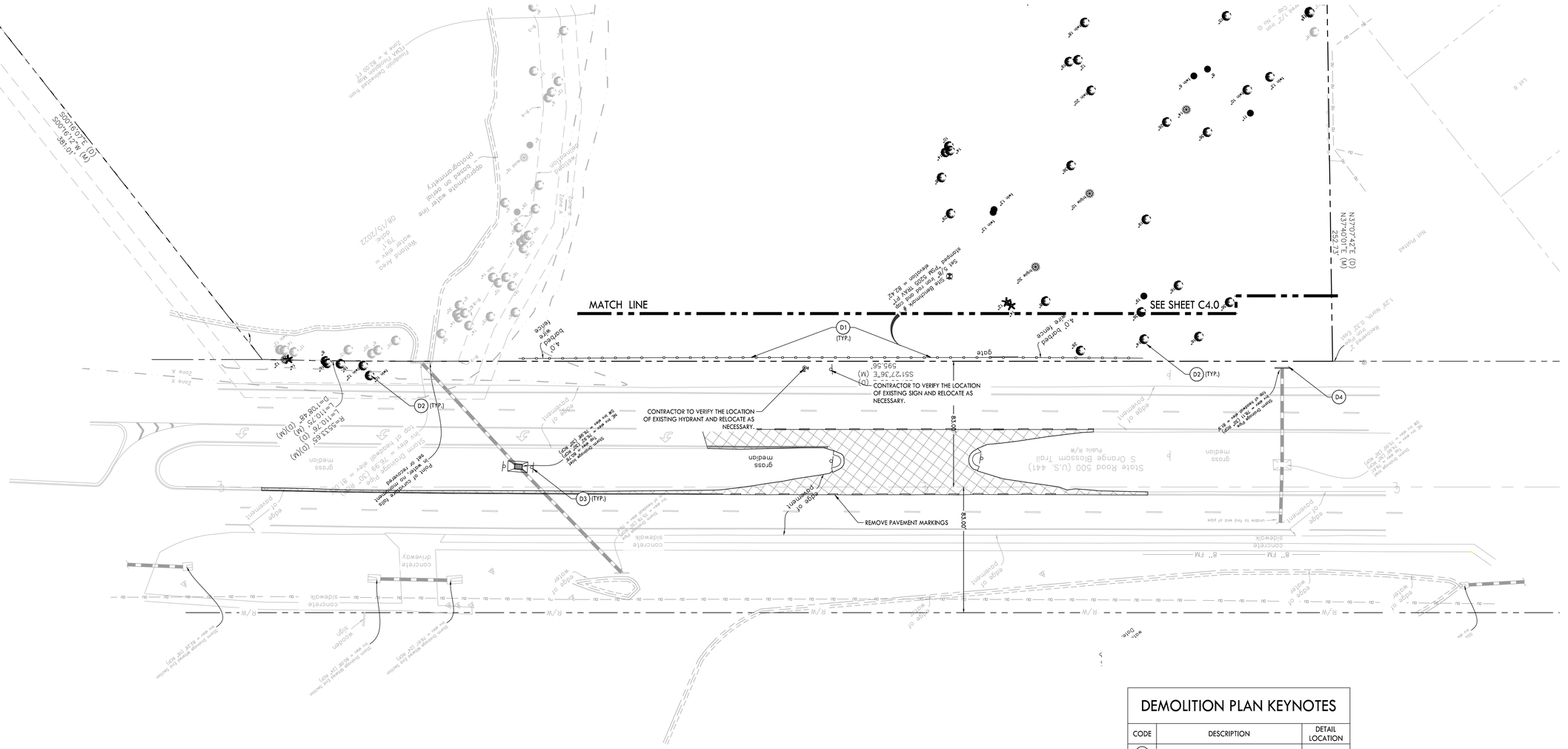
0 10 20 30 60
GRAPHIC SCALE

THOMAS W. CRUNK
LICENSED
No 76574
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
6/24/23

DEMOLITION PLAN
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C4.0



DEMOLITION PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
D1	REMOVE EXISTING FENCE	-
D2	REMOVE EXISTING TREE	-
D3	REMOVE EXISTING SIGN	-
D4	REMOVE EXISTING CONCRETE HEADWALL	-

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.

0 10 20 30 60
GRAPHIC SCALE

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ACADIA HEALTHCARE

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DEMOLITION PLAN
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C4.1

SITE DATA TABLE

SITE ACREAGE: 10.34
EXISTING ZONING: AGRICULTURAL GRAZING OR VACANT
PROPOSED ZONING: C-R REGIONAL COMMERCIAL
PROPOSED USE: HOSPITAL

BUILDING SETBACKS:

ACTUAL:
FRONT = 427 FT
REAR = 104 FT
LEFT SIDE = 159 FT
RIGHT SIDE = 139 FT

REQUIRED:
FRONT = 15 FT MIN
REAR = 10 FT MIN / 30 FT MIN WHEN ADJACENT TO A RESIDENTIAL USE OR A RESIDENTIAL DISTRICT
SIDE = 10 FT MIN

MAXIMUM BUILDING HEIGHT: 35 FT

FLOOR AREA RATIO = 99,497 SQ-FT / 450,070 SQ-FT = .221

TOTAL BEDS = 144

TOTAL BUILDING SQ-FT = 99,497
BUILDING SQ-FT DEDICATED TO OUTPATIENT SERVICES = 7,500
BUILDING SQ-FT DEDICATED TO INPATIENT SERVICES = 91,997
PERCENTAGE OF BUILDING SQ-FT DEDICATED TO OUTPATIENT SERVICES = 7.54%
PERCENTAGE OF BUILDING SQ-FT DEDICATED TO INPATIENT SERVICES = 92.46%

REQUIRED PARKING METRIC: 1.16 SPACES / BED

REQUIRED PARKING: 168 BEDS

PARKING DEDICATED TO INPATIENT SERVICES: 155 SPACES
PARKING DEDICATED TO OUTPATIENT SERVICES: 13 SPACES

REQUIRED ADA PARKING METRIC FOR INPATIENT SERVICES: IF BETWEEN 151 AND 200 PARKING SPACES, 6 ADA SPACES ARE REQUIRED.
REQUIRED ADA PARKING METRIC FOR OUTPATIENT SERVICES: 10% OF PARKING PROVIDED FOR OUTPATIENT SERVICES MUST BE ADA ACCESSIBLE

REQUIRED ADA SPACES FOR INPATIENT SERVICES: 6
REQUIRED ADA SPACES FOR OUTPATIENT SERVICES: 13*.1 = 1.3 = 2

PROVIDED PARKING:
REGULAR SPACES = 160
A.D.A SPACES = 8
TOTAL SPACES = 168

IMPERVIOUS AREA TO TOTAL AREA COVERAGE CALCULATIONS:
4.16 IMPERVIOUS ACRES / 10.34 TOTAL ACRES = 40.2% COVERAGE

ADJACENT NORTHERN PROPERTIES
EXISTING FUTURE LAND USE CATEGORIES:
UNINCORPORATED AND COMM.
ZONING DESIGNATIONS:
UNINCORPORATED AND C-C

ADJACENT EASTERN PROPERTY
EXISTING FUTURE LAND USE CATEGORY:
UNINCORPORATED
ZONING DESIGNATION:
UNINCORPORATED

ADJACENT WESTERN PROPERTIES
EXISTING FUTURE LAND USE CATEGORIES:
INST_PU AND UNINCORPORATED
ZONING DESIGNATIONS:
O AND UNINCORPORATED

ADJACENT SOUTHERN PROPERTY
EXISTING FUTURE LAND USE CATEGORY:
COMM
ZONING DESIGNATION:
C-R

PER TABLE 5.4.4: REQUIRED OPEN SPACE SET-ASIDES IN THE APOPKA LAND DEVELOPMENT CODE (LDC), WE ARE IN THE FOLLOWING 2 CATEGORIES; "COMMERCIAL BASE, AND THE INST AND AIR DISTRICTS" AND "PUBLIC, CIVIC, AND INSTITUTIONAL USES", WHICH REQUIRES 10% MINIMUM OPEN SPACE SET-ASIDE AREA AS A PERCENTAGE OF DEVELOPMENT SITE AREA.
REQUIRED OPEN SPACE AREA = 45,007 SQ-FT
PROVIDED OPEN SPACE AREA = 158,197 SQ-FT

GREEN BUILDING STANDARDS:

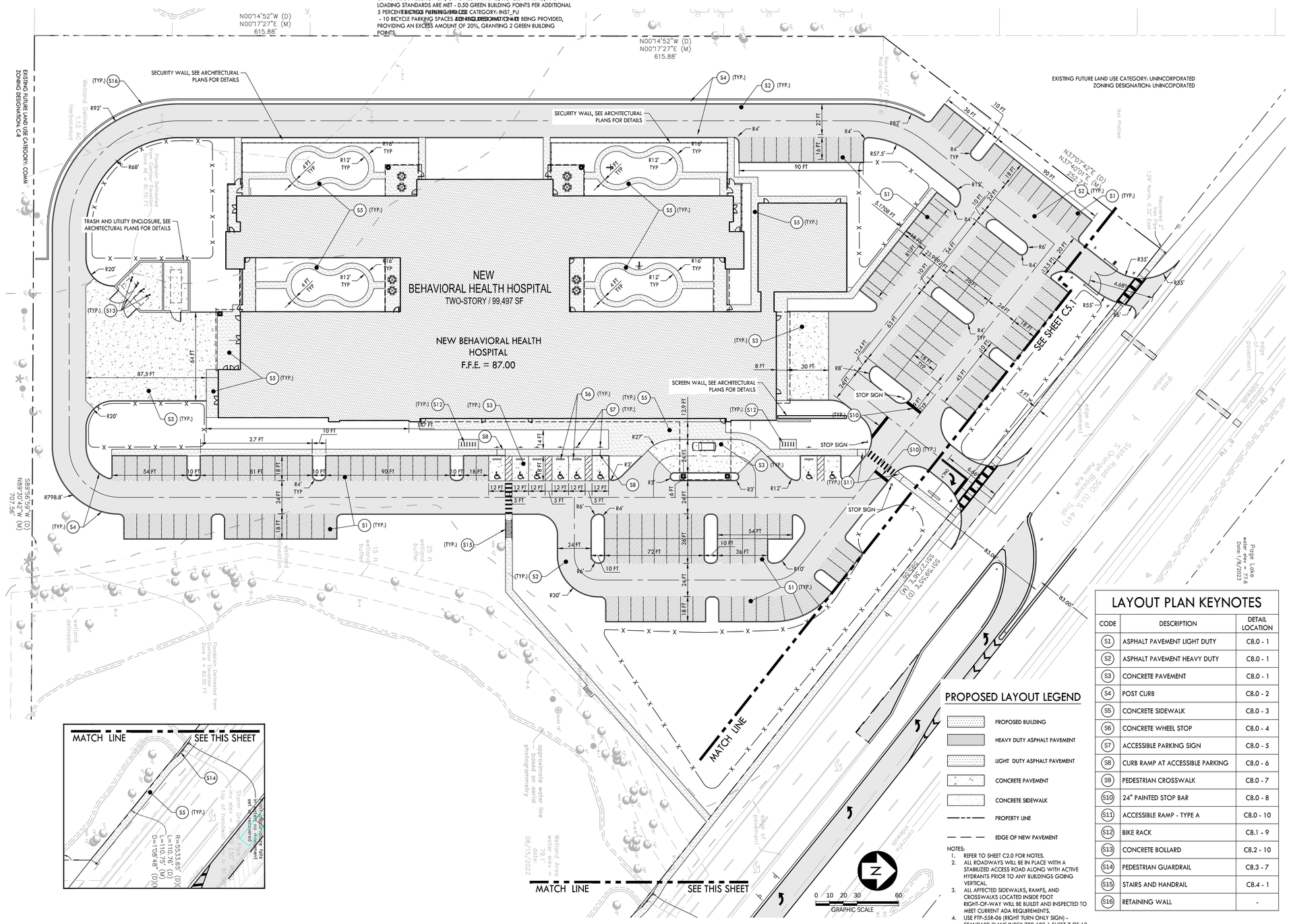
TOTAL GREEN BUILDING POINTS = 5.75

PROVIDE RAIN GARDENS, STREET-SIDE SWALES, OR OTHER APPROPRIATE STORM WATER INFILTRATION SYSTEM(S) THAT CAPTURES A MINIMUM OF 25 PERCENT OF SITE STORMWATER RUNOFF - 1.00 GREEN BUILDING POINT
- CURRENTLY 53.2% OF THE SITE'S STORMWATER RUNOFF IS BEING CAPTURED, GRANTING 1.00 GREEN BUILDING POINT.

RETAIN AT LEAST 20 PERCENT OF EXISTING PRE-DEVELOPMENT NATURAL VEGETATION - 0.75 GREEN BUILDING POINT
- CURRENTLY 35.1% OF THE SITE'S EXISTING NATURAL VEGETATION WILL BE RETAINED, GRANTING 0.75 GREEN BUILDING POINTS.

ELEVATE NEW AND/OR EXISTING STRUCTURES MORE THAN 3 FEET ABOVE BASE FLOOD ELEVATION (BFE) - 0.50 GREEN BUILDING POINTS PER FOOT ABOVE BFE
- THE SITE'S HIGHEST BFE IS 82 FT AND THE BUILDING ELEVATION IS SET TO 86 FT, GRANTING 2 GREEN BUILDING POINTS.

PROVIDE MORE BICYCLE PARKING THAN REQUIRED BY SEC. 5.1.11, BICYCLE PARKING STANDARDS, WHILE ENSURING THAT ALL OTHER BICYCLE PARKING STANDARDS IN SECTION 5-1; OFF-STREET PARKING; BICYCLE PARKING; AND LOADING STANDARDS ARE MET - 0.50 GREEN BUILDING POINTS PER ADDITIONAL 5 PERCENT EXCESS PARKING CASE CATEGORY: INST_PU
- 10 BICYCLE PARKING SPACES ARE REQUIRED THAT 12 ARE BEING PROVIDED, PROVIDING AN EXCESS AMOUNT OF 20%, GRANTING 2 GREEN BUILDING POINTS.



LAYOUT PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
S1	ASPHALT PAVEMENT LIGHT DUTY	C8.0 - 1
S2	ASPHALT PAVEMENT HEAVY DUTY	C8.0 - 1
S3	CONCRETE PAVEMENT	C8.0 - 1
S4	POST CURB	C8.0 - 2
S5	CONCRETE SIDEWALK	C8.0 - 3
S6	CONCRETE WHEEL STOP	C8.0 - 4
S7	ACCESSIBLE PARKING SIGN	C8.0 - 5
S8	CURB RAMP AT ACCESSIBLE PARKING	C8.0 - 6
S9	PEDESTRIAN CROSSWALK	C8.0 - 7
S10	24" PAINTED STOP BAR	C8.0 - 8
S11	ACCESSIBLE RAMP - TYPE A	C8.0 - 10
S12	BIKE RACK	C8.1 - 9
S13	CONCRETE BOLLARD	C8.2 - 10
S14	PEDESTRIAN GUARDRAIL	C8.3 - 7
S15	STAIRS AND HANDRAIL	C8.4 - 1
S16	RETAINING WALL	-

PROPOSED LAYOUT LEGEND

- PROPOSED BUILDING
- HEAVY DUTY ASPHALT PAVEMENT
- LIGHT DUTY ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- PROPERTY LINE
- EDGE OF NEW PAVEMENT

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.
2. ALL ROADWAYS WILL BE IN PLACE WITH A STABILIZED ACCESS ROAD ALONG WITH ACTIVE HYDRANTS PRIOR TO ANY BUILDINGS GOING VERTICAL.
3. ALL AFFECTED SIDEWALKS, RAMPS, AND CROSSWALKS LOCATED INSIDE FDOT RIGHT-OF-WAY WILL BE BUILDT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.
4. USE FTP-55R-06 (RIGHT TURN ONLY SIGN) - STANDARD PLANS INDEX 700-102-1 SHEET 7 OF 12.
5. POSTED SPEED LIMIT TO BE MAINTAINED.

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Mechanical/Electrical Engineering
cmta ENGINEERING CONSULTANTS

Foodservices Design

ACADIA HEALTHCARE

NOT FOR CONSTRUCTION

ADAM N. CRUNK LICENSE No 78574 STATE OF FLORIDA PROFESSIONAL ENGINEER 07/24/23

SITE LAYOUT PLAN
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C5.0

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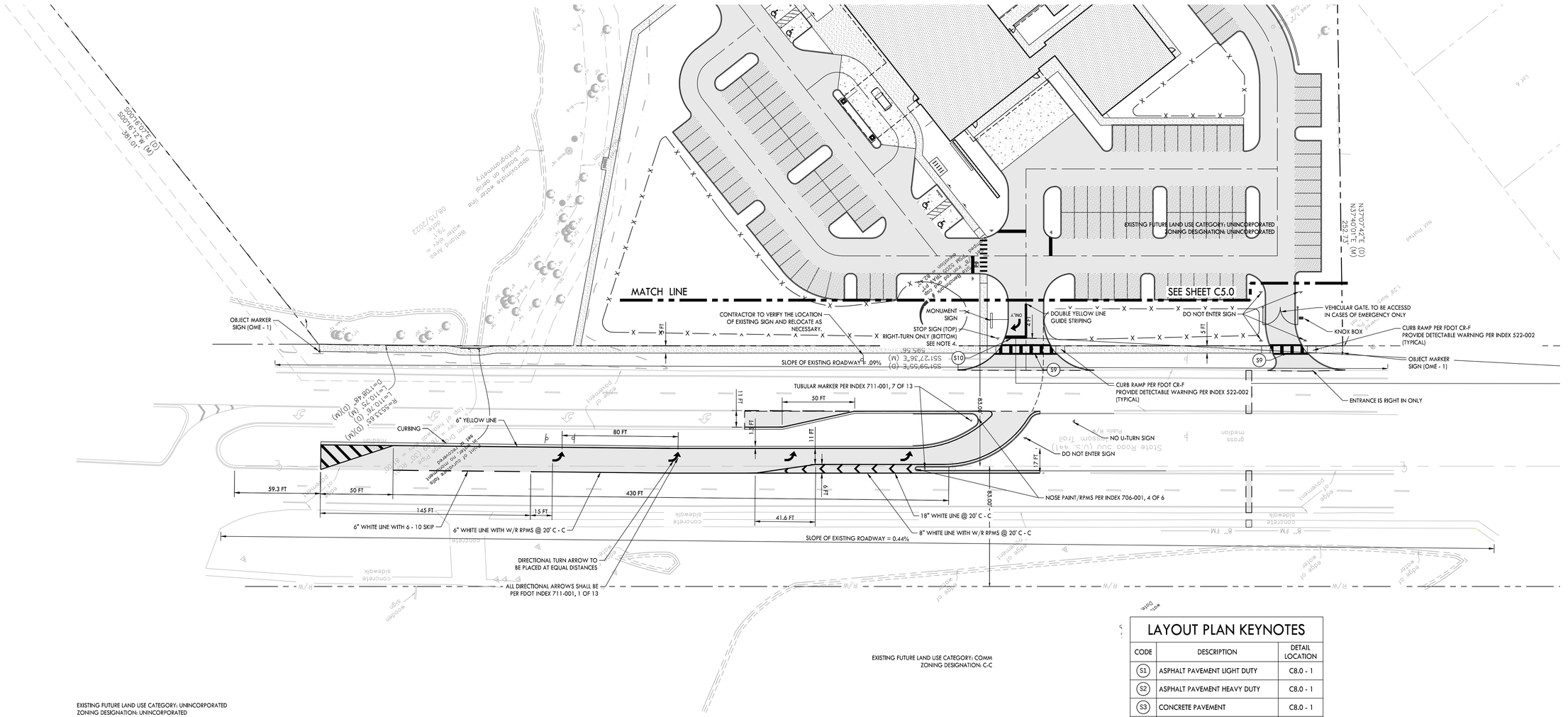
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PROPOSED LAYOUT LEGEND

- PROPOSED BUILDING
- HEAVY DUTY ASPHALT PAVEMENT
- LIGHT DUTY ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- PROPERTY LINE
- EDGE OF NEW PAVEMENT

NOTES:
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4. USE FTP-SSR-06 (RIGHT TURN ONLY SIGN) - STANDARD PLANS INDEX 700-102-1 SHEET 7 OF 12.
5. POSTED SPEED LIMIT TO BE MAINTAINED.

0 10 20 30 60
GRAPHIC SCALE

LAYOUT PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
S1	ASPHALT PAVEMENT LIGHT DUTY	C8.0 - 1
S2	ASPHALT PAVEMENT HEAVY DUTY	C8.0 - 1
S3	CONCRETE PAVEMENT	C8.0 - 1
S4	POST CURB	C8.0 - 2
S5	CONCRETE SIDEWALK	C8.0 - 3
S6	CONCRETE WHEEL STOP	C8.0 - 4
S7	ACCESSIBLE PARKING SIGN	C8.0 - 5
S8	CURB RAMP AT ACCESSIBLE PARKING	C8.0 - 6
S9	PEDESTRIAN CROSSWALK	C8.0 - 7
S10	24" PAINTED STOP BAR	C8.0 - 8
S11	ACCESSIBLE RAMP - TYPE A	C8.0 - 10
S12	BIKE RACK	C8.1 - 9
S13	CONCRETE BOLLARD	C8.2 - 10
S14	PEDESTRIAN GUARDRAIL	C8.3 - 7
S15	STAIRS AND HANDRAIL	C8.4 - 1
S16	RETAINING WALL	-

ADAM W. CRUNK
LICENSED
No 78014
07/24/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SITE LAYOUT PLAN
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C5.1

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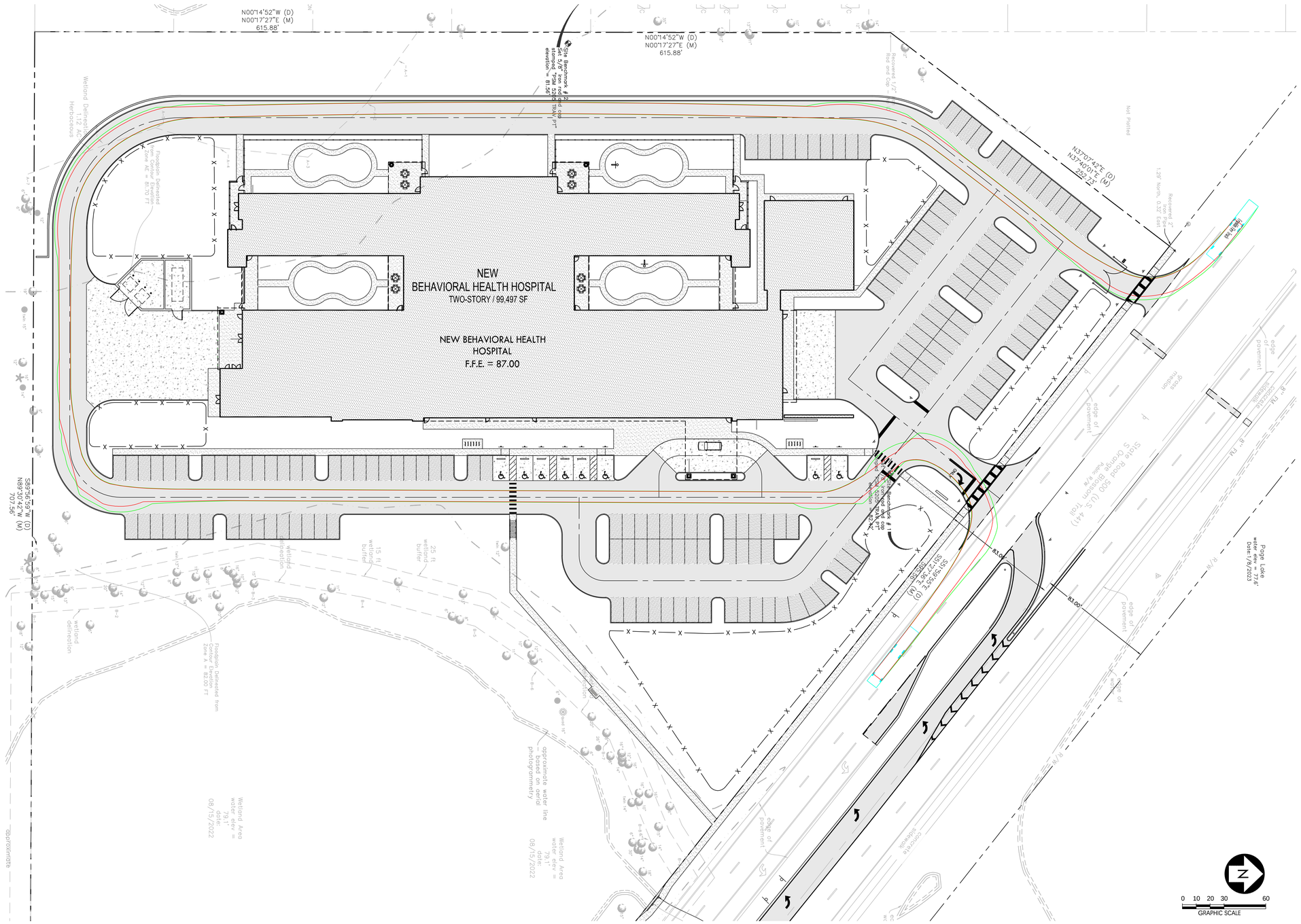
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NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.
2. ALL ROADWAYS WILL BE IN PLACE WITH A STABILIZED ACCESS ROAD ALONG WITH ACTIVE HYDRANTS PRIOR TO ANY BUILDINGS GOING VERTICAL.

JOHN W. CRUNK
LICENSE
No 76576
6/24/24
STATE OF TENNESSEE
REGISTERED ENGINEER

FIRE TRUCK TURN EXHIBIT
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

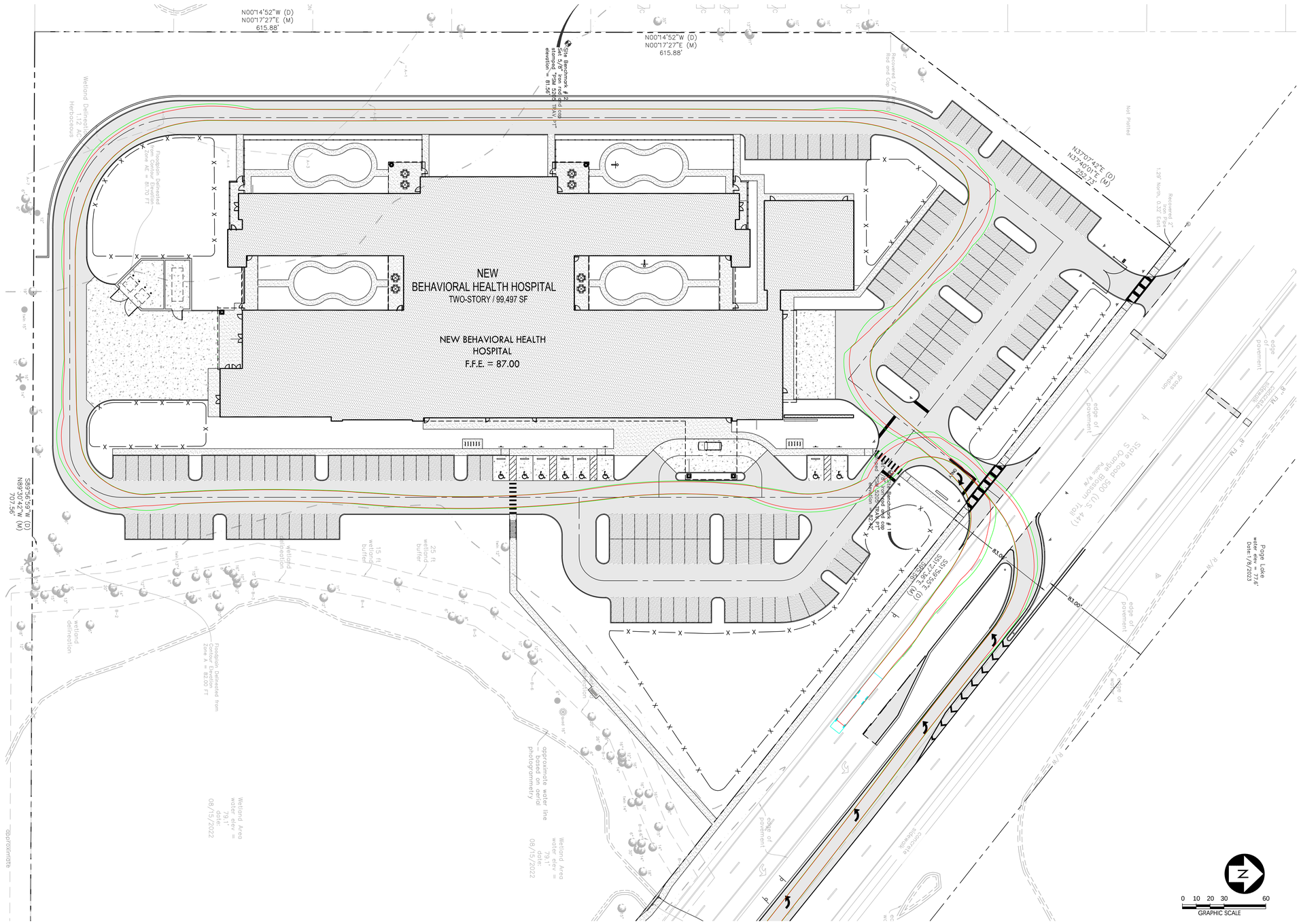
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Foodservices Design



0 10 20 30 60
GRAPHIC SCALE

NOTES:
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2. ALL ROADWAYS WILL BE IN PLACE WITH A STABILIZED ACCESS ROAD ALONG WITH ACTIVE HYDRANTS PRIOR TO ANY BUILDINGS GOING VERTICAL.

ACADIA
HEALTHCARE

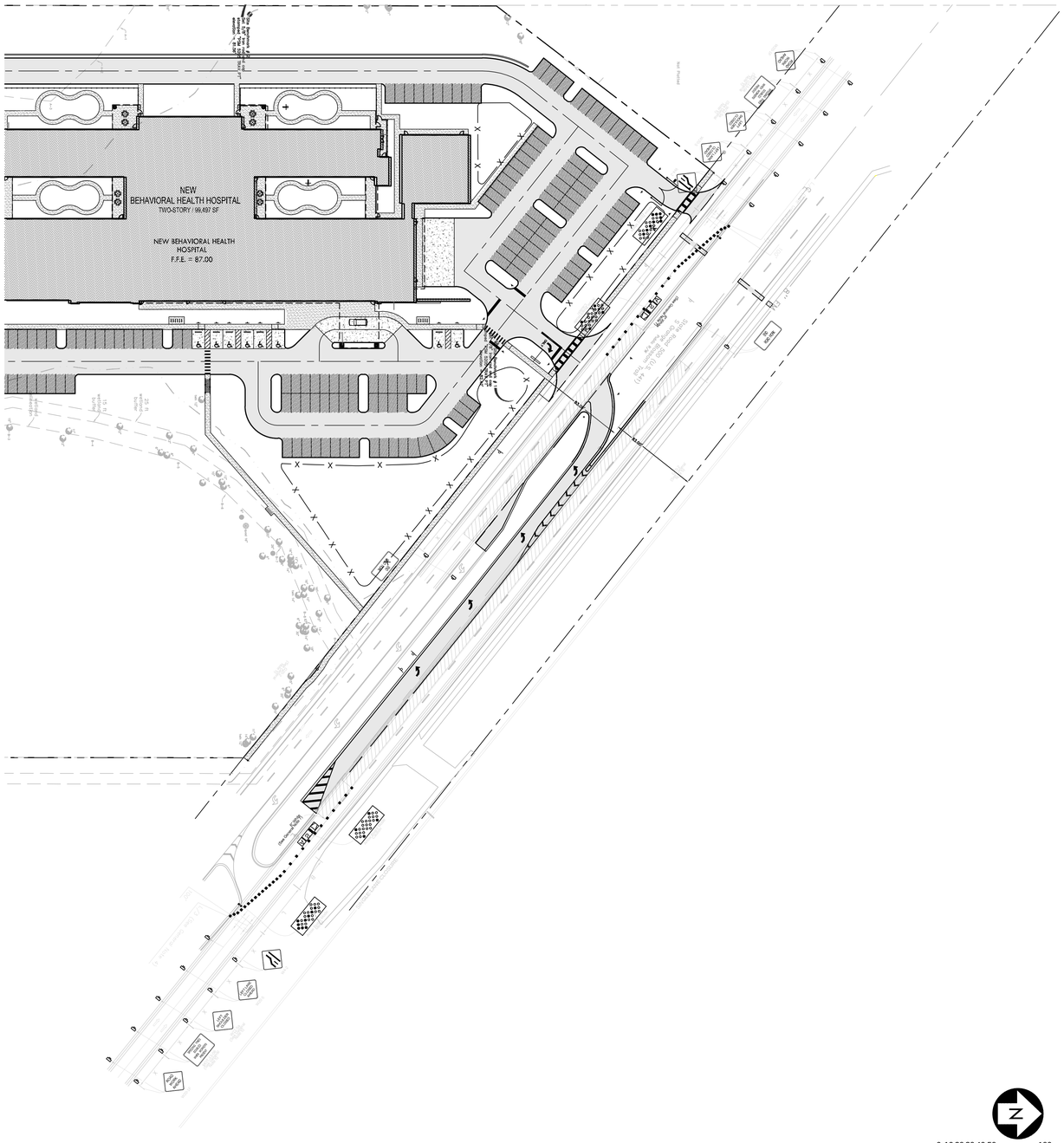
WILLIAM N. CRUNK
LICENSE
No 76576
07/24/23
STATE OF
TENNESSEE
REGISTERED
CIVIL
ENGINEER

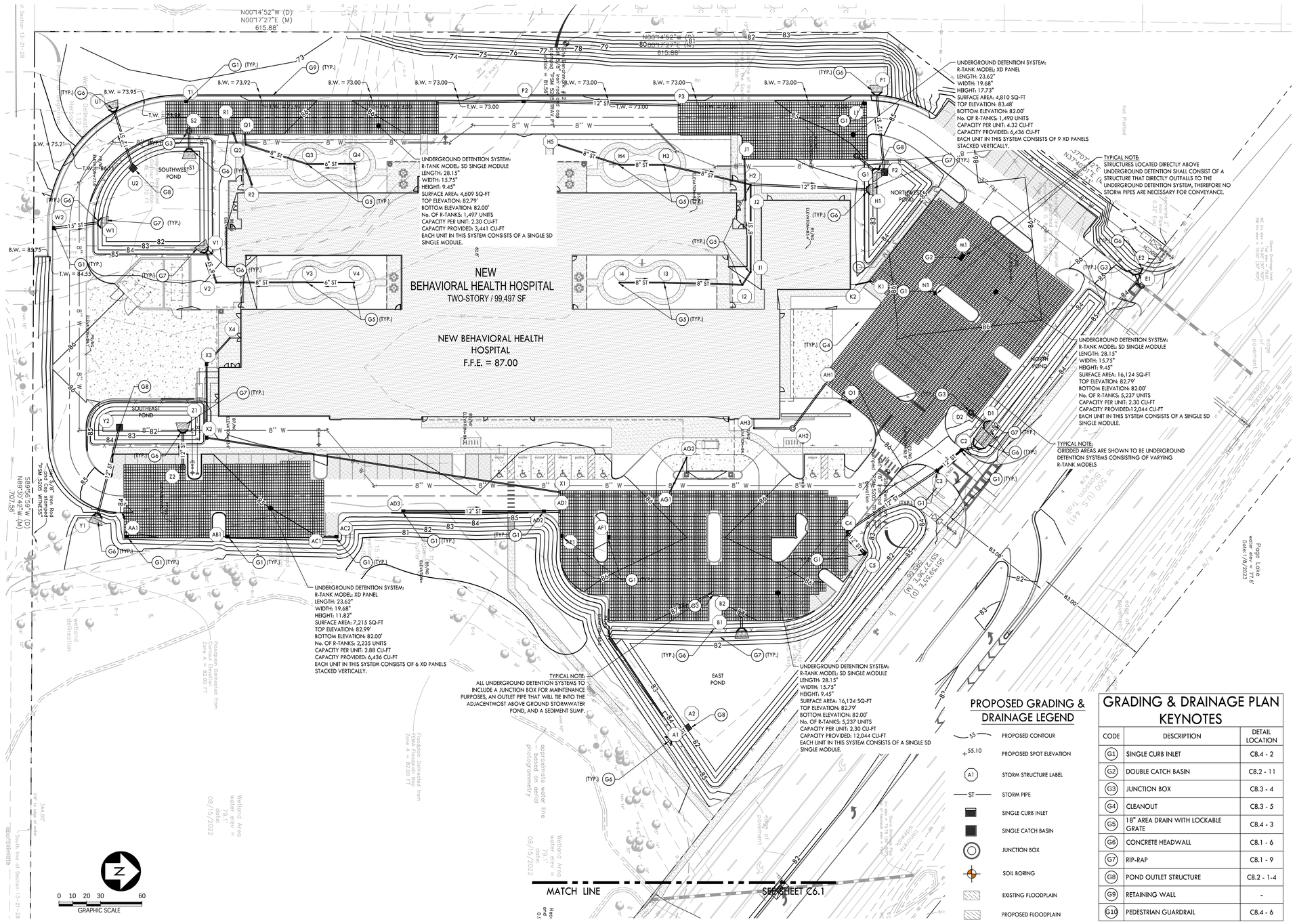
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ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C5.3


NEW
BEHAVIORAL HEALTH HOSPITAL
TWO-STORY - 99,497 SF
NEW BEHAVIORAL HEALTH
HOSPITAL
F.F.E. = 87.00
NEW ENTRANCE
EXISTING ENTRANCE
EXISTING ENTRANCE
EXISTING



PROPOSED GRADING & DRAINAGE LEGEND

85	PROPOSED CONTOUR
+55.10	PROPOSED SPOT ELEVATION
A1	STORM STRUCTURE LABEL
ST	STORM PIPE
	SINGLE CURB INLET
	SINGLE CATCH BASIN
	JUNCTION BOX
	SOIL BORING
	EXISTING FLOODPLAIN
	PROPOSED FLOODPLAIN

GRADING & DRAINAGE PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
G1	SINGLE CURB INLET	C8.4 - 2
G2	DOUBLE CATCH BASIN	C8.2 - 11
G3	JUNCTION BOX	C8.3 - 4
G4	CLEANOUT	C8.3 - 5
G5	18" AREA DRAIN WITH LOCKABLE GRATE	C8.4 - 3
G6	CONCRETE HEADWALL	C8.1 - 6
G7	RIP-RAP	C8.1 - 9
G8	POND OUTLET STRUCTURE	C8.2 - 1-4
G9	RETAINING WALL	-
G10	PEDESTRIAN GUARDRAIL	C8.4 - 6

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.
2. POND BOTTOM AND SIDE SLOPES WILL BE SEEDED TO MINIMIZE EROSION.

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GRADING AND DRAINAGE PLANS
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C6.0

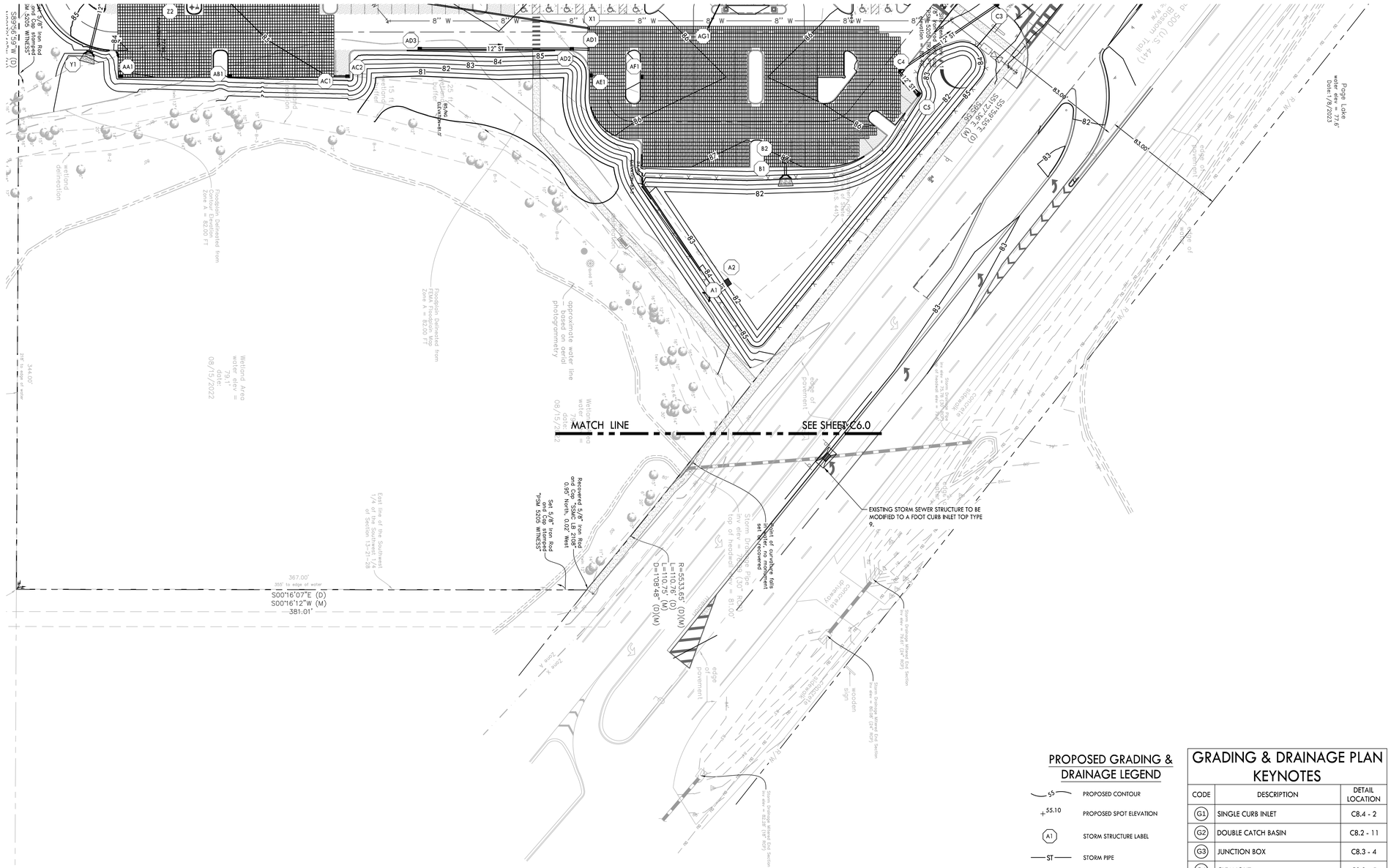
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MATCH LINE
SEE SHEET C6.0
EXISTING STORM SEWER STRUCTURE TO BE MODIFIED TO A FDOT CURB INLET TOP TYPE 9.
Recovered 5/8" Iron Rod and Cap "SSMC LB 2601" 0.50' North, 0.02' West
Set 5/8" Iron Rod and Cap "PSM 5205 WITNESS"
Point of curve/tie falls in water, no monument set or recovered
Storm Drainage Pipe Invert elevation = 81.00'
R=553.65' (D)(M)
L=110.76' (D)
L=110.75' (M)
D=108.46' (D)(M)
367.00'
355' to edge of water
S00°16'07"E (D)
S00°16'12"W (M)
381.01'
East line of the Southwest 1/4 of the Southwest 1/4 of Section 13-27-28
Wetland Area water elev = 77.5' as of date: 08/15/2022
approximate water line based on aerial photogrammetry
Floodplain Delineated from Contour Elevation Zone A = 82.00 FT
Floodplain Delineated from Contour Elevation Zone A = 83.00 FT
wetland delineation
Rock Lake water elev. = 77.6' Date: 1/8/2023
Storm Drainage Mitered End Section inv elev = 76.61' (24" RCP)
Storm Drainage Mitered End Section inv elev = 80.68' (24" RCP)
Storm Drainage Mitered End Section inv elev = 82.24' (18" RCP)
Storm Drainage Pipe Invert elevation = 83.00'
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STORM STRUCTURE TABLE			
ID	RIM	INVERT	TYPE
A1	83.36	81.00	CONCRETE HEADWALL
A2	84.00	82.00	OUTLET STRUCTURE
AA1	83.80	80.59	SINGLE CURB INLET
AB1	84.51	81.40	SINGLE CURB INLET
AC1	83.16	82.16	SINGLE CURB INLET
AC2	85.08	82.20	SINGLE CURB INLET
AD1	83.76	82.20	R-TANK CONNECTION
AD2	85.39	82.20	SINGLE CURB INLET
AD3	85.56	82.70	SINGLE CURB INLET
AE1	85.11	81.95	SINGLE CURB INLET
AF1	85.44	81.78	SINGLE CURB INLET
AG1	-1.37	-2.37	SINGLE CURB INLET
AG2	0.00	-2.04	STORM CLEANOUT
AH1	-1.45	-2.93	SINGLE CURB INLET
AH2	0.00	-2.52	JUNCTION MANHOLE
AH3	0.00	-2.38	STORM CLEANOUT
B1	85.94	81.63	CONCRETE HEADWALL
B2	87.03	82.00	JUNCTION MANHOLE
C1	83.07	81.43	CONCRETE HEADWALL
C2	84.99	82.00	SINGLE CURB INLET
C3	85.01	82.00	SINGLE CURB INLET
C4	84.98	82.00	SINGLE CURB INLET
C5	84.95	82.30	SINGLE CURB INLET
D1	84.43	82.00	CONCRETE HEADWALL
D2	86.81	82.00	JUNCTION MANHOLE
E1	83.81	78.20	JUNCTION MANHOLE
E2	84.59	79.10	CONCRETE HEADWALL
F1	79.00	75.00	CONCRETE HEADWALL
F2	84.00	82.00	OUTLET STRUCTURE
G1	83.05	81.42	CONCRETE HEADWALL
G2	85.04	82.00	JUNCTION MANHOLE
H1	84.50	82.70	CONCRETE HEADWALL
H2	86.61	83.20	12" NYLOPLAST
H3	86.49	83.50	12" NYLOPLAST
H4	86.41	83.70	12" NYLOPLAST
H5	86.33	84.00	12" NYLOPLAST
I1	86.84	84.00	12" NYLOPLAST
I2	87.00	84.10	12" NYLOPLAST
I3	87.00	84.30	12" NYLOPLAST
I4	87.00	84.50	12" NYLOPLAST
J1	82.96	81.79	SINGLE CURB INLET
J2	0.00	-2.04	STORM CLEANOUT
K1	82.79	81.79	SINGLE CURB INLET
K2	0.00	-2.04	STORM CLEANOUT
L1	84.33	79.33	SINGLE CATCH BASIN
M1	85.27	82.64	DOUBLE CATCH BASIN
N1	85.60	82.52	SINGLE CURB INLET
O1	85.78	80.78	SINGLE CURB INLET
P2	85.24	82.70	SINGLE CURB INLET
P2 - P1	83.69	82.39	SINGLE CURB INLET
P3	83.30	82.00	SINGLE CURB INLET
Q1	82.96	81.96	SINGLE CURB INLET
Q2	86.32	82.25	12" NYLOPLAST
Q3	86.60	84.30	12" NYLOPLAST
Q4	86.61	84.50	12" NYLOPLAST
R1	82.96	81.79	SINGLE CURB INLET
R2	0.00	-2.04	STORM CLEANOUT
S1	83.05	81.42	CONCRETE HEADWALL
S2	85.29	82.00	JUNCTION MANHOLE
T1	85.06	82.51	SINGLE CURB INLET
U1	79.00	73.00	CONCRETE HEADWALL
U2	84.00	81.00	OUTLET STRUCTURE
V1	84.44	82.90	CONCRETE HEADWALL
V2	86.60	83.00	12" NYLOPLAST
V3	86.50	83.40	12" NYLOPLAST
V4	86.50	83.50	12" NYLOPLAST
W1	84.00	82.00	CONCRETE HEADWALL
W2	85.00	82.20	SINGLE CURB INLET
X1	0.00	-3.72	SINGLE CURB INLET
X2	0.00	-2.43	SINGLE CURB INLET
X3	0.00	-2.16	SINGLE CURB INLET
X4	0.00	-2.04	STORM CLEANOUT
Y1	85.73	81.16	CONCRETE HEADWALL
Y2	83.77	81.95	OUTLET STRUCTURE
Z1	83.05	81.42	CONCRETE HEADWALL
Z2	84.71	81.05	JUNCTION MANHOLE

STORM PIPE TABLE								
INLET	INVERT	OUTLET	INVERT	LENGTH (FT)	SLOPE (%)	SHAPE	DIAMETER (IN)	MATERIAL
A2	82.00	A1	81.00	14.62	6.84%	CIRCULAR	12	HDPE
AC2	82.20	AC1	82.20	8.94	0.00%	CIRCULAR	8	HDPE
AD2	82.20	AD1	82.20	11.40	0.00%	CIRCULAR	15	HDPE
AD3	82.70	AD2	82.20	101.54	0.49%	CIRCULAR	12	HDPE
AG2	85.00	AG1	82.00	27.93	10.74%	CIRCULAR	4	HDPE
AH2	82.00	AH1	82.00	40.24	0.00%	CIRCULAR	10	HDPE
AH3	82.00	AH2	82.00	27.96	0.00%	CIRCULAR	10	HDPE
B2	82.00	B1	82.00	9.57	0.00%	CIRCULAR	15	HDPE
C1	82.00	C2	82.00	10.48	0.00%	CIRCULAR	12	HDPE
C2	82.00	C3	82.00	23.23	0.00%	CIRCULAR	12	HDPE
C4	82.00	C3	82.00	78.93	0.00%	CIRCULAR	12	HDPE
C5	82.30	C4	82.00	20.24	1.48%	CIRCULAR	12	HDPE
D2	82.00	D1	82.00	12.55	0.00%	CIRCULAR	12	HDPE
E2	79.10	E1	78.20	9.05	9.94%	CIRCULAR	30	RCP
F2	82.00	F1	75.00	56.20	12.45%	CIRCULAR	12	HDPE
G2	82.00	G1	82.00	15.73	0.00%	CIRCULAR	12	HDPE

STORM PIPE TABLE								
INLET	INVERT	OUTLET	INVERT	LENGTH (FT)	SLOPE (%)	SHAPE	DIAMETER (IN)	MATERIAL
H2	83.20	H1	82.70	84.01	0.60%	CIRCULAR	12	HDPE
H3	83.50	H2	83.20	64.19	0.47%	CIRCULAR	8	HDPE
H4	83.70	H3	83.50	32.00	0.63%	CIRCULAR	8	HDPE
H5	84.00	H4	83.70	46.18	0.65%	CIRCULAR	8	HDPE
I1	84.00	H2	83.70	63.16	0.47%	CIRCULAR	8	HDPE
I2	84.10	I1	84.00	10.90	0.92%	CIRCULAR	8	HDPE
I3	84.30	I2	84.10	56.73	0.35%	CIRCULAR	8	HDPE
I4	84.50	I3	84.30	32.00	0.63%	CIRCULAR	8	HDPE
J2	83.00	J1	82.00	30.31	3.30%	CIRCULAR	8	HDPE
K2	83.00	K1	82.00	11.49	8.71%	CIRCULAR	6	HDPE
P2	82.00	P2 - P1	82.00	62.46	0.00%	CIRCULAR	12	HDPE
P2	82.00	P3	82.00	112.66	0.00%	CIRCULAR	12	HDPE
Q2	82.30	Q1	82.00	7.69	3.90%	CIRCULAR	8	HDPE
Q3	84.30	Q2	82.30	46.72	4.28%	CIRCULAR	8	HDPE
Q4	84.50	Q3	84.30	34.16	0.59%	CIRCULAR	6	HDPE
R2	83.00	R1	82.00	40.18	2.49%	CIRCULAR	8	HDPE

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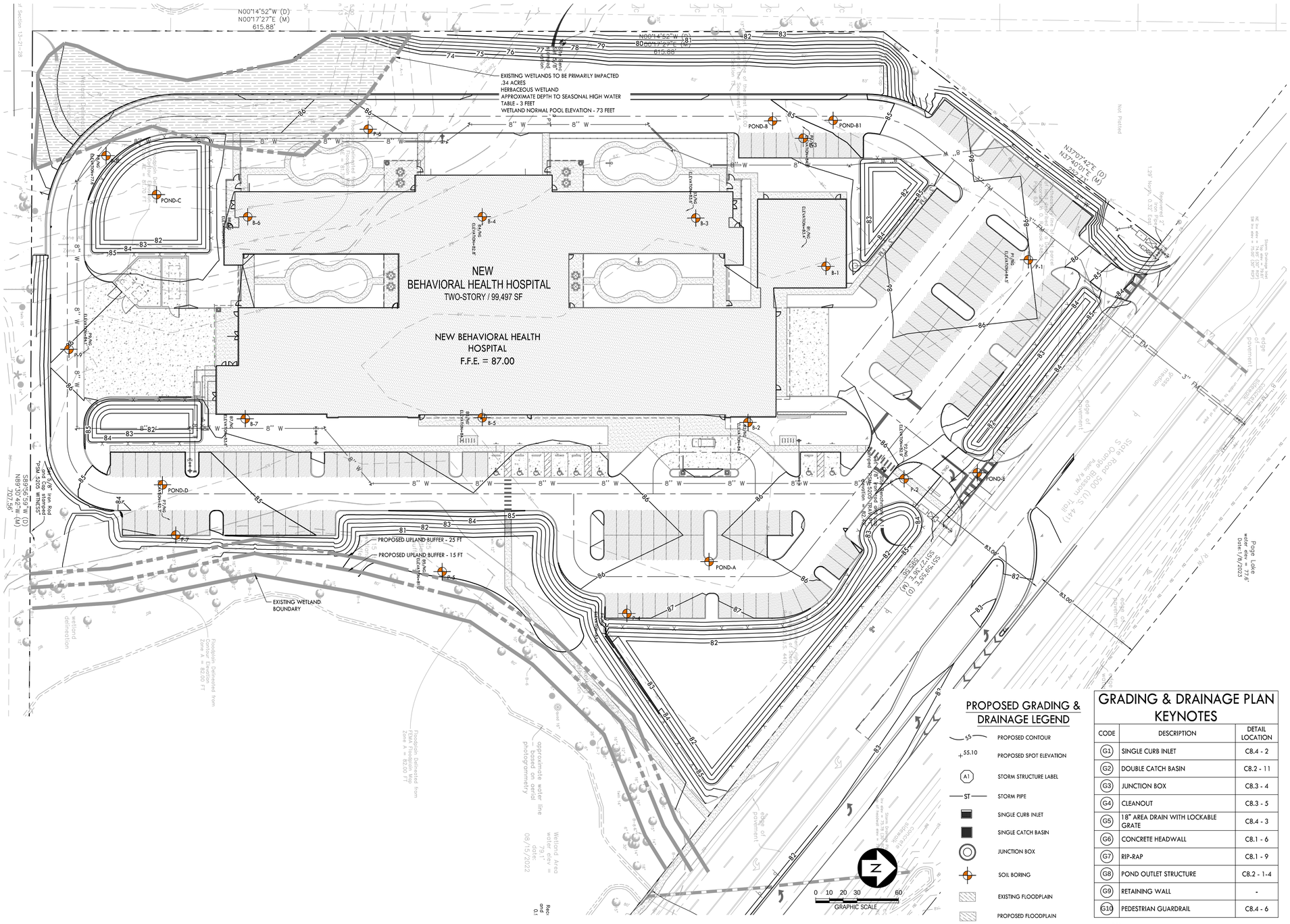
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STORM PIPE AND STRUCTURE TABLES

NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C6.2



PROPOSED GRADING & DRAINAGE LEGEND

55	PROPOSED CONTOUR
+55.10	PROPOSED SPOT ELEVATION
A1	STORM STRUCTURE LABEL
ST	STORM PIPE
	SINGLE CURB INLET
	SINGLE CATCH BASIN
	JUNCTION BOX
	SOIL BORING
	EXISTING FLOODPLAIN
	PROPOSED FLOODPLAIN

GRADING & DRAINAGE PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
G1	SINGLE CURB INLET	C8.4 - 2
G2	DOUBLE CATCH BASIN	C8.2 - 11
G3	JUNCTION BOX	C8.3 - 4
G4	CLEANOUT	C8.3 - 5
G5	18" AREA DRAIN WITH LOCKABLE GRATE	C8.4 - 3
G6	CONCRETE HEADWALL	C8.1 - 6
G7	RIP-RAP	C8.1 - 9
G8	POND OUTLET STRUCTURE	C8.2 - 1-4
G9	RETAINING WALL	-
G10	PEDESTRIAN GUARDRAIL	C8.4 - 6

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.
2. POND BOTTOM AND SIDE SLOPES WILL BE SEEDED TO MINIMIZE EROSION.

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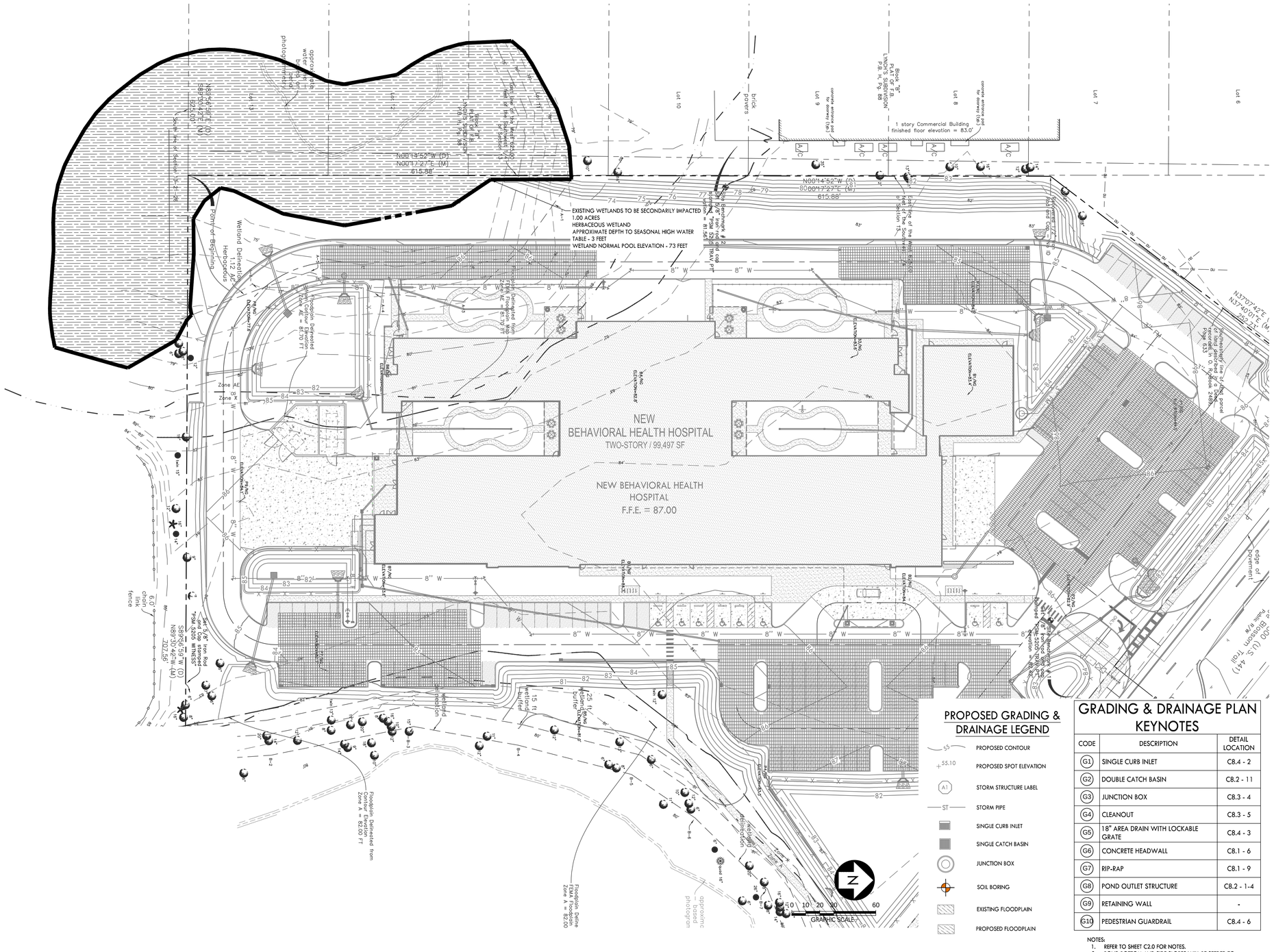
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WILLIAM W. CRUNK
LICENSED
No. 78574
07/24/23
STATE OF TENNESSEE
PROFESSIONAL ENGINEER

PROPOSED WETLAND IMPACT
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C6.3



PROPOSED GRADING & DRAINAGE LEGEND

- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- STORM STRUCTURE LABEL
- STORM PIPE
- SINGLE CURB INLET
- SINGLE CATCH BASIN
- JUNCTION BOX
- SOIL BORING
- EXISTING FLOODPLAIN
- PROPOSED FLOODPLAIN

GRADING & DRAINAGE PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
G1	SINGLE CURB INLET	C8.4 - 2
G2	DOUBLE CATCH BASIN	C8.2 - 11
G3	JUNCTION BOX	C8.3 - 4
G4	CLEANOUT	C8.3 - 5
G5	18" AREA DRAIN WITH LOCKABLE GRATE	C8.4 - 3
G6	CONCRETE HEADWALL	C8.1 - 6
G7	RIP-RAP	C8.1 - 9
G8	POND OUTLET STRUCTURE	C8.2 - 1-4
G9	RETAINING WALL	-
G10	PEDESTRIAN GUARDRAIL	C8.4 - 6

NOTES:
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HEALTHCARE

NOT FOR CONSTRUCTION

PROPOSED WETLAND IMPACT
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C6.4

FLOODPLAIN ZONE AE:
FILL VOLUME CALCULATIONS

ELEVATION (FT)	AREA (FT)	VOLUME (CU-FT)	CUMULATIVE VOLUME (CU-FT)
74	495	0	0
75	1,939	1,217	1,217
76	3,875	2,907	4,124
77	6,451	5,163	9,287
78	10,226	8,339	17,625
79	14,478	12,352	29,978
80	19,389	16,934	46,912
81	26,234	22,811	69,723
81.7	33,325	20,845	90,568

FLOODPLAIN ZONE AE:
CUT VOLUME CALCULATIONS

ELEVATION (FT)	AREA (FT)	VOLUME (CU-FT)	CUMULATIVE VOLUME (CU-FT)
74	11,538	0	0
75	11,712	11,625	11,625
76	11,961	11,837	23,462
77	11,885	11,923	35,385
78	12,180	12,032	47,417
79	12,593	12,386	59,803
80	12,858	12,725	72,529
81	11,718	12,288	84,816
81.7	10,660	7,832	92,649

FLOODPLAIN ZONE AE:
NET CUT VOLUME CALCULATIONS

ELEVATION (FT)	NET CUT VOLUME (CU-FT)
74	0
75	10,408
76	19,338
77	26,098
78	29,792
79	29,826
80	25,617
81	15,093
81.7	2,080

FLOODPLAIN ZONE A:
FILL VOLUME CALCULATIONS

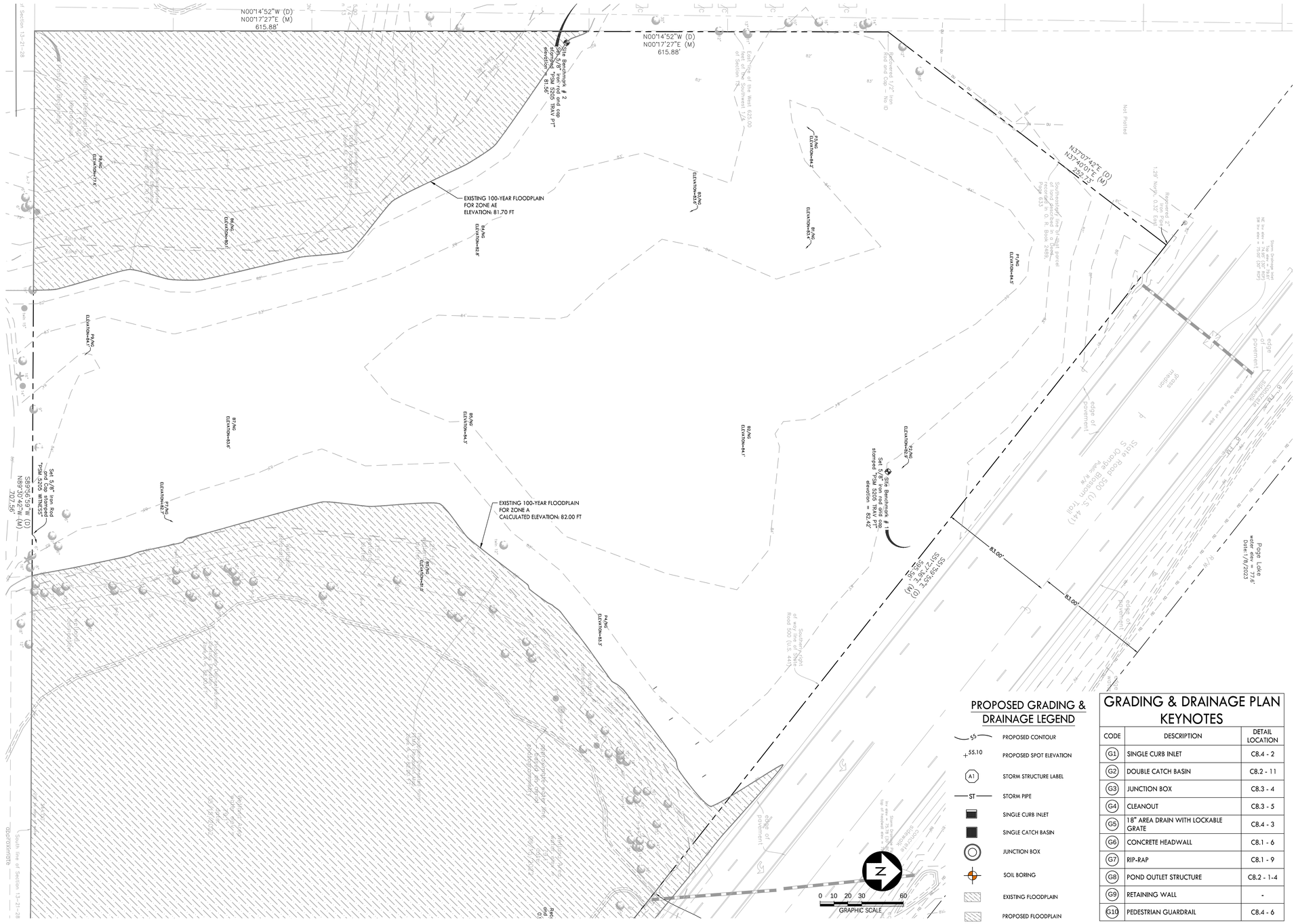
ELEVATION (FT)	AREA (FT)	VOLUME (CU-FT)	CUMULATIVE VOLUME (CU-FT)
80	0	0	0
81	1,036	518	518
82	4,301	2,668	3,187

FLOODPLAIN ZONE A:
CUT VOLUME CALCULATIONS

ELEVATION (FT)	AREA (FT)	VOLUME (CU-FT)	CUMULATIVE VOLUME (CU-FT)
80	5,130	0	0
81	8,091	6,610	6,610
82	3,847	5,969	12,579

FLOODPLAIN ZONE A:
NET CUT VOLUME CALCULATIONS

ELEVATION (FT)	NET CUT VOLUME (CU-FT)
80	0
81	6,092
82	9,393



PROPOSED GRADING & DRAINAGE LEGEND

- 55 — PROPOSED CONTOUR
- +55.10 — PROPOSED SPOT ELEVATION
- A1 — STORM STRUCTURE LABEL
- ST — STORM PIPE
- SINGLE CURB INLET
- SINGLE CATCH BASIN
- JUNCTION BOX
- SOIL BORING
- EXISTING FLOODPLAIN
- PROPOSED FLOODPLAIN

GRADING & DRAINAGE PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
G1	SINGLE CURB INLET	C8.4 - 2
G2	DOUBLE CATCH BASIN	C8.2 - 11
G3	JUNCTION BOX	C8.3 - 4
G4	CLEANOUT	C8.3 - 5
G5	18" AREA DRAIN WITH LOCKABLE GRATE	C8.4 - 3
G6	CONCRETE HEADWALL	C8.1 - 6
G7	RIP-RAP	C8.1 - 9
G8	POND OUTLET STRUCTURE	C8.2 - 1-4
G9	RETAINING WALL	-
G10	PEDESTRIAN GUARDRAIL	C8.4 - 6

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.
2. POND BOTTOM AND SIDE SLOPES WILL BE SEEDED TO MINIMIZE EROSION.

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LICENSED
No 78078
07/24/23
STATE OF TENNESSEE
PROFESSIONAL ENGINEER

EXISTING FLOODPLAIN EXHIBIT
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C6.5

FLOODPLAIN ZONE AE:
FILL VOLUME CALCULATIONS

ELEVATION (FT)	AREA (FT)	VOLUME (CU-FT)	CUMULATIVE VOLUME (CU-FT)
74	495	0	0
75	1,939	1,217	1,217
76	3,875	2,907	4,124
77	6,451	5,163	9,287
78	10,226	8,339	17,625
79	14,478	12,352	29,978
80	19,389	16,934	46,912
81	26,234	22,811	69,723
81.7	33,325	20,845	90,568

FLOODPLAIN ZONE AE:
CUT VOLUME CALCULATIONS

ELEVATION (FT)	AREA (FT)	VOLUME (CU-FT)	CUMULATIVE VOLUME (CU-FT)
74	11,538	0	0
75	11,712	11,625	11,625
76	11,961	11,837	23,462
77	11,885	11,923	35,385
78	12,180	12,032	47,417
79	12,593	12,386	59,803
80	12,858	12,725	72,529
81	11,718	12,288	84,816
81.7	10,660	7,832	92,649

FLOODPLAIN ZONE AE:
NET CUT VOLUME CALCULATIONS

ELEVATION (FT)	NET CUT VOLUME (CU-FT)
74	0
75	10,408
76	19,338
77	26,098
78	29,792
79	29,826
80	25,617
81	15,093
81.7	2,080

FLOODPLAIN ZONE A:
FILL VOLUME CALCULATIONS

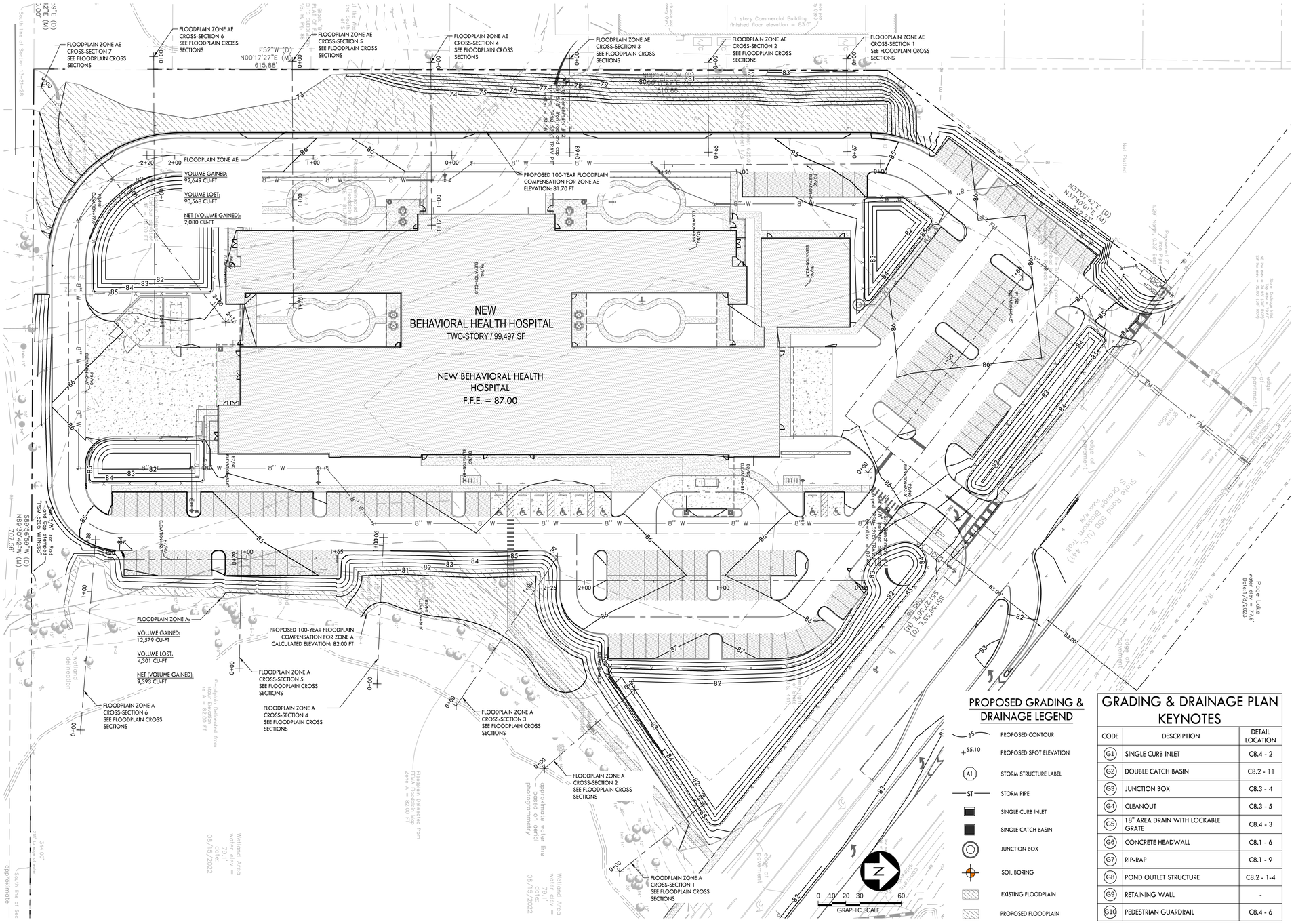
ELEVATION (FT)	AREA (FT)	VOLUME (CU-FT)	CUMULATIVE VOLUME (CU-FT)
80	0	0	0
81	1,036	518	518
82	4,301	2,668	3,187

FLOODPLAIN ZONE A:
CUT VOLUME CALCULATIONS

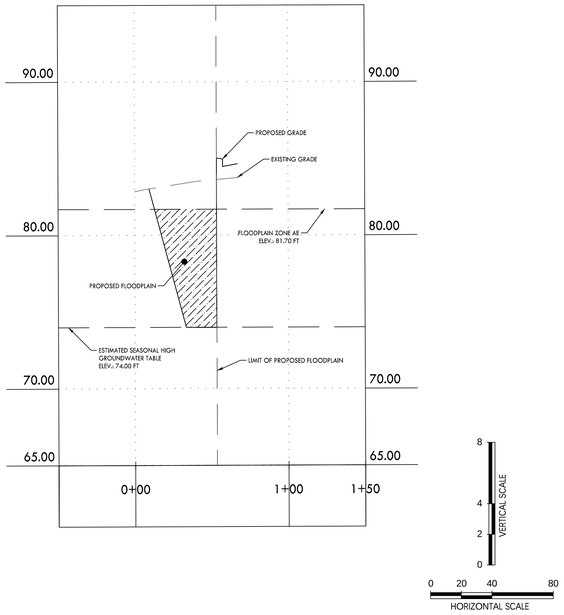
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80	5,130	0	0
81	8,091	6,610	6,610
82	3,847	5,969	12,579

FLOODPLAIN ZONE A:
NET CUT VOLUME CALCULATIONS

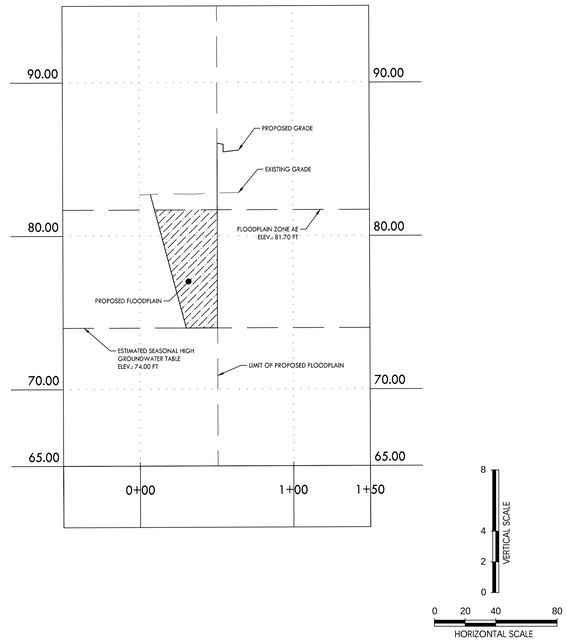
ELEVATION (FT)	NET CUT VOLUME (CU-FT)
80	0
81	6,092
82	9,393


FLOODPLAIN ZONE AE CROSS-SECTION 7 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE AE CROSS-SECTION 6 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE AE CROSS-SECTION 5 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE AE CROSS-SECTION 4 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE AE CROSS-SECTION 3 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE AE CROSS-SECTION 2 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE AE CROSS-SECTION 1 SEE FLOODPLAIN CROSS SECTIONS
1 story Commercial Building finished floor elevation = 83.0'
FLOODPLAIN ZONE AE:
VOLUME GAINED: 92,649 CU-FT
VOLUME LOST: 90,568 CU-FT
NET (VOLUME GAINED): 2,080 CU-FT
PROPOSED 100-YEAR FLOODPLAIN COMPENSATION FOR ZONE AE ELEVATION: 81.70 FT
NEW BEHAVIORAL HEALTH HOSPITAL
TWO-STORY / 99,497 SF
NEW BEHAVIORAL HEALTH HOSPITAL
F.F.E. = 87.00
FLOODPLAIN ZONE A:
VOLUME GAINED: 12,579 CU-FT
VOLUME LOST: 4,301 CU-FT
NET (VOLUME GAINED): 9,393 CU-FT
PROPOSED 100-YEAR FLOODPLAIN COMPENSATION FOR ZONE A CALCULATED ELEVATION: 82.00 FT
FLOODPLAIN ZONE A CROSS-SECTION 6 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE A CROSS-SECTION 5 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE A CROSS-SECTION 4 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE A CROSS-SECTION 3 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE A CROSS-SECTION 2 SEE FLOODPLAIN CROSS SECTIONS
FLOODPLAIN ZONE A CROSS-SECTION 1 SEE FLOODPLAIN CROSS SECTIONS
Wetland delineation
Floodplain Delineated from FEMA Floodplain Map Zone A = 82.00 FT
approximate water line based on aerial photogrammetry
Wetland Area water elev = 79.1' date: 08/15/2022
Page Lake water elev = 83.0' Date: 7/6/2023
Shale Road 500 (U.S. 441)
Edge of pavement
Edge of pavement
Concrete Sidewalk
Top of bank
Toe of slope
Top of bank
Toe of slope
Edge of pavement
Concrete Sidewalk
Edge of pavement
3" RM
Cross Section
Edge of pavement
Concrete Sidewalk
Edge of pavement
Concrete Sidewalk
Edge of pavement
Concrete Sidewalk

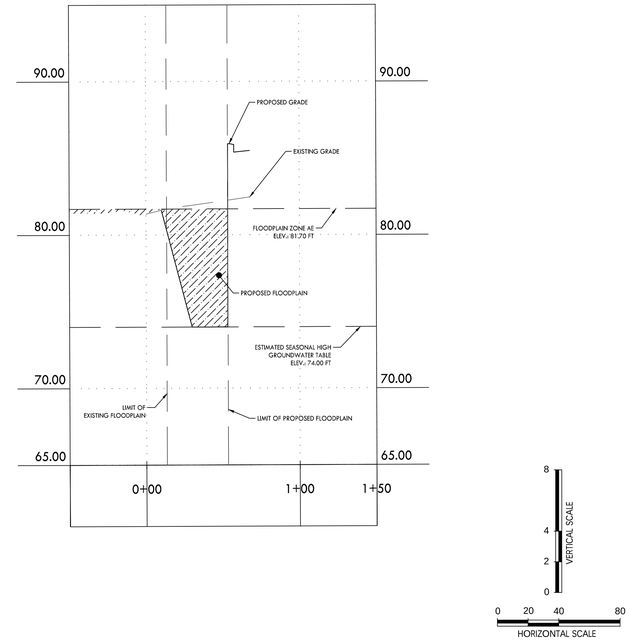
FLOODPLAIN ZONE AE CROSS-SECTION 1



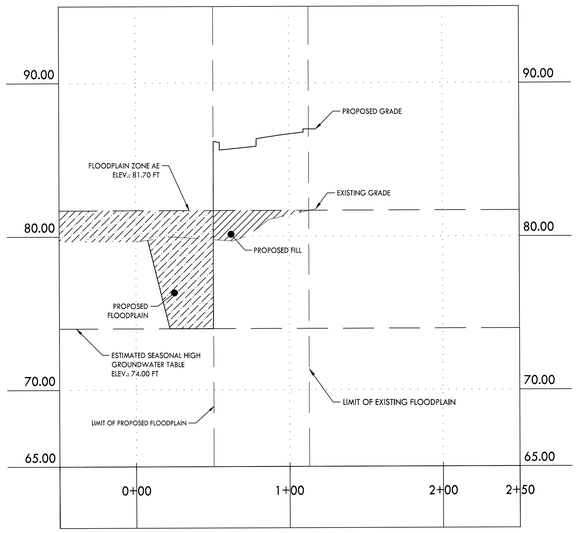
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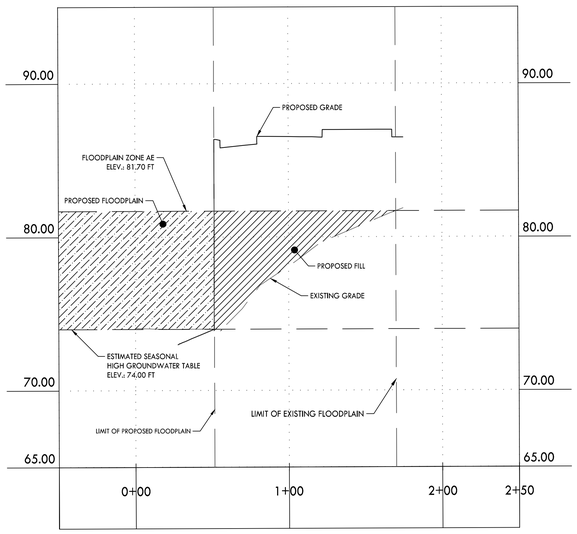
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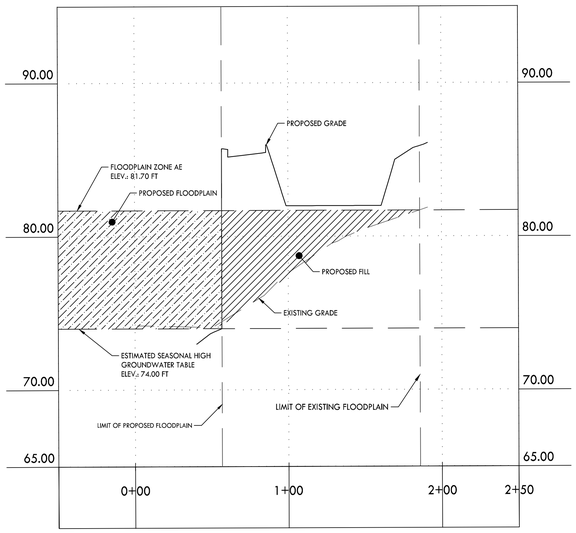
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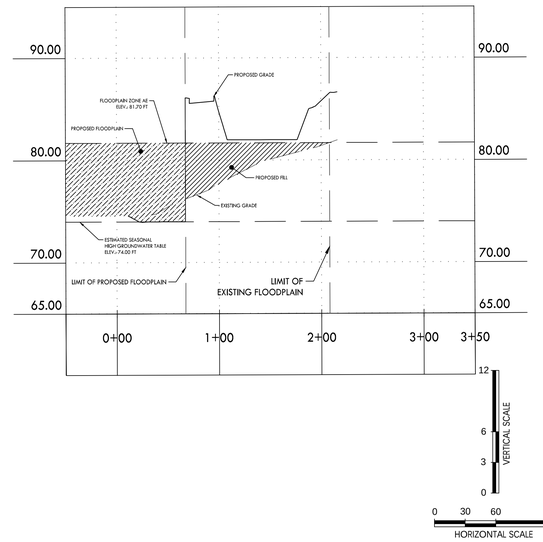
FLOODPLAIN ZONE AE CROSS-SECTION 5



FLOODPLAIN ZONE AE CROSS-SECTION 6



FLOODPLAIN ZONE AE CROSS-SECTION 7



PROPOSED GRADING & DRAINAGE LEGEND

PROPOSED FLOODPLAIN

PROPOSED FILL

CRUNK ENGINEERING LLC
7112 CROSSROADS BOULEVARD
SUITE 201
BRENTWOOD, TN 37027
(615) 873-1795
WWW.CRUNKENG.COM

STENGEL-HILL
ARCHITECTURE
613 WEST MAIN STREET
LOUISVILLE, KENTUCKY 40202
502.893.1875
502.893.1876 fax

Civil Engineering
CRUNK ENGINEERING
Structural Engineering
Skyhook
STRUCTURAL ENGINEERING, P.C.
Mechanical/Electrical Engineering
cmta ENGINEERING CONSULTANTS
Foodservices Design

ACADIA HEALTHCARE

NOT FOR CONSTRUCTION

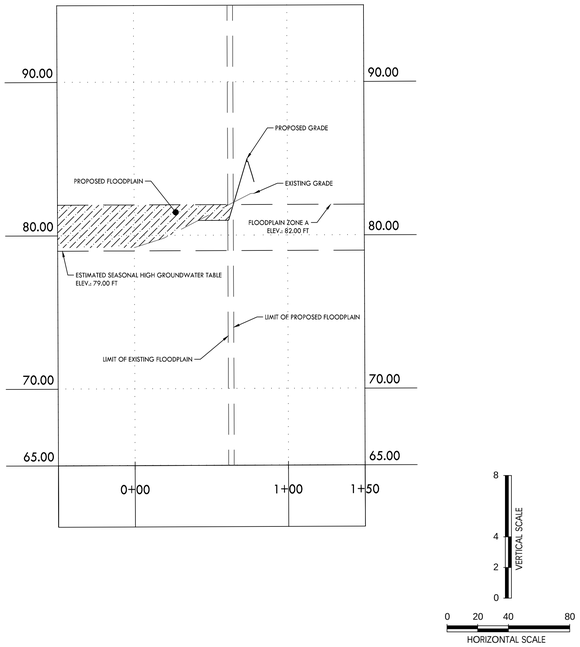
ADAM W. CRAIN
LICENSE
No 78574
STATE OF
TENNESSEE
PROFESSIONAL ENGINEER
5/24/23

FLOODPLAIN CROSS-SECTIONS
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

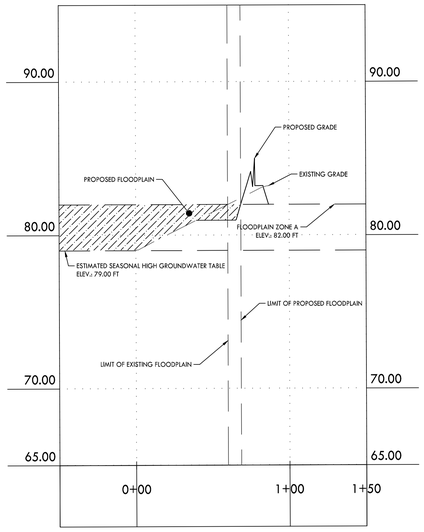
15 JUNE 2023

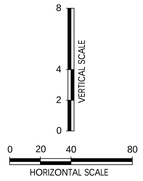
C6.7

FLOODPLAIN ZONE A CROSS-SECTION 1

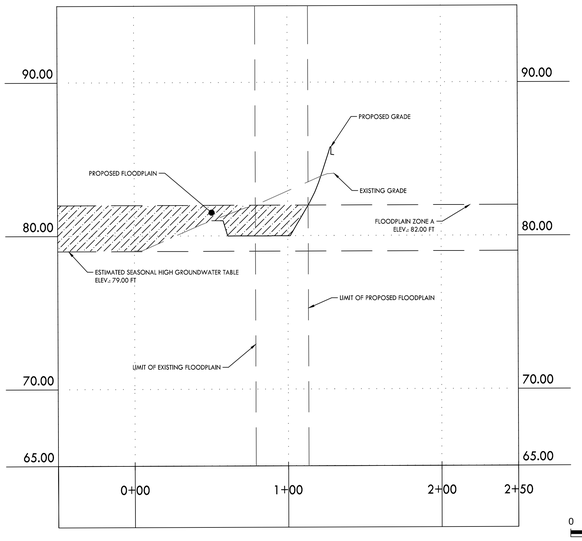


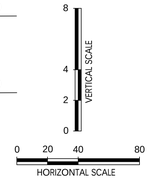
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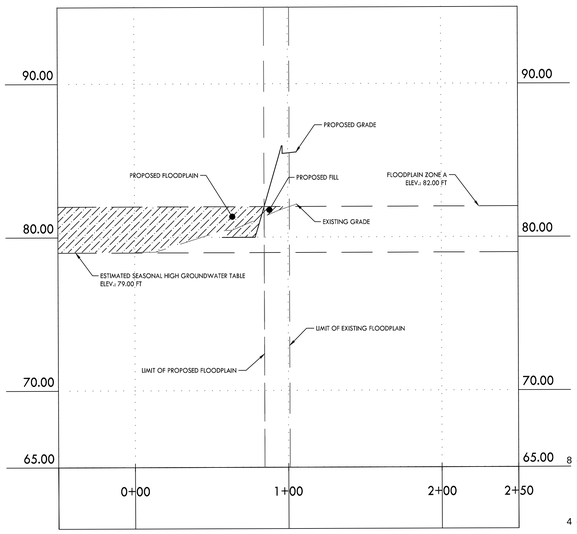


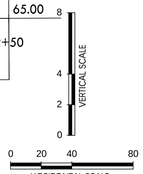
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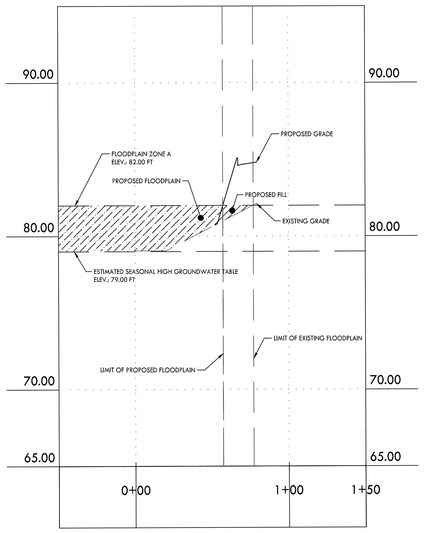


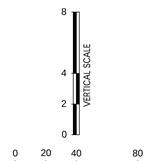
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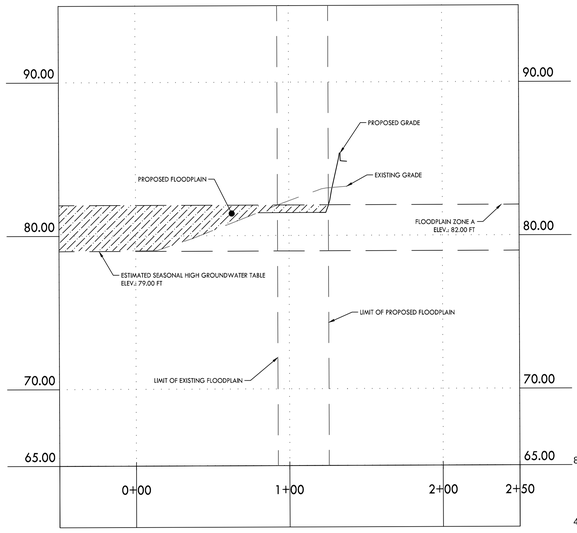


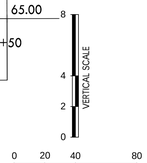
FLOODPLAIN ZONE A CROSS-SECTION 5





FLOODPLAIN ZONE A CROSS-SECTION 6





PROPOSED GRADING & DRAINAGE LEGEND

PROPOSED FLOODPLAIN

PROPOSED FILL

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BRENTWOOD, TN 37027
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PROFESSIONAL ENGINEER
5/24/23

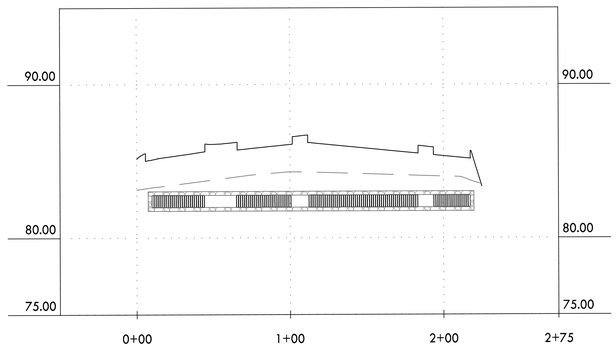
FLOODPLAIN CROSS-SECTIONS

NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

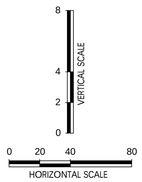
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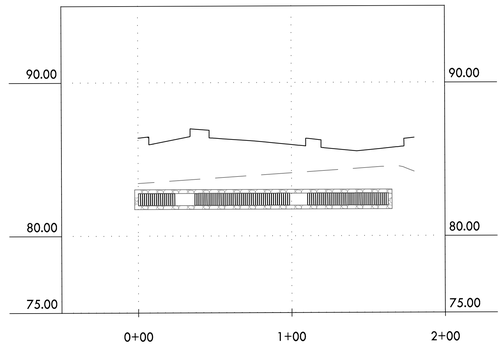
R-TANK (EAST)



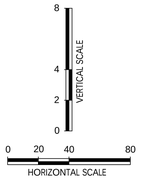
NOTES:
1. A GEOTEXTILE ENVELOPE IS REQUIRED TO PREVENT BACKFILL MATERIAL FROM ENTERING THE R-TANK MODULES. FOR INFILTRATION APPLICATIONS, WHEN WATER MUST INFILTRATE/EXFILTRATE THROUGH THE GEOTEXTILE AS A FUNCTION OF THE SYSTEM DESIGN, A WOVEN MONOFILAMENT (ACF M200 OR EQUIVALENT) SHALL BE USED.
2. BEDDING MATERIALS: STONE (ANGULAR AND SMALLER THAN 1.5" IN DIAMETER) SHALL BE USED BELOW THE R-TANK SYSTEM (3" MINIMUM). MATERIAL MUST BE FREE FROM LUMPS, DEBRIS, AND ANY SHARP OBJECTS THAT COULD CUT THE GEOTEXTILE. MATERIAL SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 AT THE TIME OF INSTALLATION. FOR INFILTRATION APPLICATIONS BEDDING MATERIAL SHALL BE FREE DRAINING.
3. SIDE AND TOP BACKFILL: DEEP APPLICATIONS (> 12" TOTAL COVER): FREE DRAINING STONE (ANGULAR AND SMALLER THAN 1.5" IN DIAMTER) SHALL BE USED ADJACENT TO (12" MINIMUM) AND ABOVE (FOR THE FIRST 12") THE R-TANK SYSTEM. MATERIAL MUST BE FREE FROM LUMPS, DEBRIS, AND ANY SHARP OBJECTS THAT COULD CUT THE GEOTEXTILE. MATERIAL SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 AT THE TIME OF INSTALLATION.



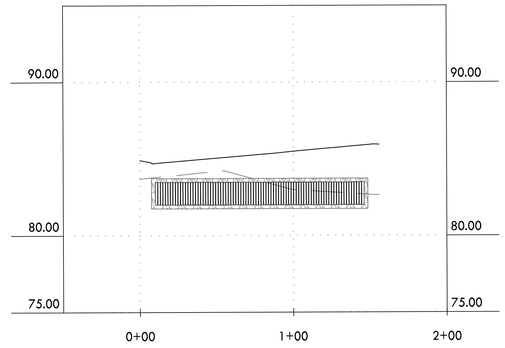
R-TANK (NORTH)



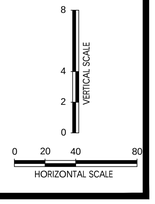
NOTES:
1. A GEOTEXTILE ENVELOPE IS REQUIRED TO PREVENT BACKFILL MATERIAL FROM ENTERING THE R-TANK MODULES. FOR INFILTRATION APPLICATIONS, WHEN WATER MUST INFILTRATE/EXFILTRATE THROUGH THE GEOTEXTILE AS A FUNCTION OF THE SYSTEM DESIGN, A WOVEN MONOFILAMENT (ACF M200 OR EQUIVALENT) SHALL BE USED.
2. BEDDING MATERIALS: STONE (ANGULAR AND SMALLER THAN 1.5" IN DIAMETER) SHALL BE USED BELOW THE R-TANK SYSTEM (3" MINIMUM). MATERIAL MUST BE FREE FROM LUMPS, DEBRIS, AND ANY SHARP OBJECTS THAT COULD CUT THE GEOTEXTILE. MATERIAL SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 AT THE TIME OF INSTALLATION. FOR INFILTRATION APPLICATIONS BEDDING MATERIAL SHALL BE FREE DRAINING.
3. SIDE AND TOP BACKFILL: DEEP APPLICATIONS (> 12" TOTAL COVER): FREE DRAINING STONE (ANGULAR AND SMALLER THAN 1.5" IN DIAMTER) SHALL BE USED ADJACENT TO (12" MINIMUM) AND ABOVE (FOR THE FIRST 12") THE R-TANK SYSTEM. MATERIAL MUST BE FREE FROM LUMPS, DEBRIS, AND ANY SHARP OBJECTS THAT COULD CUT THE GEOTEXTILE. MATERIAL SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 AT THE TIME OF INSTALLATION.



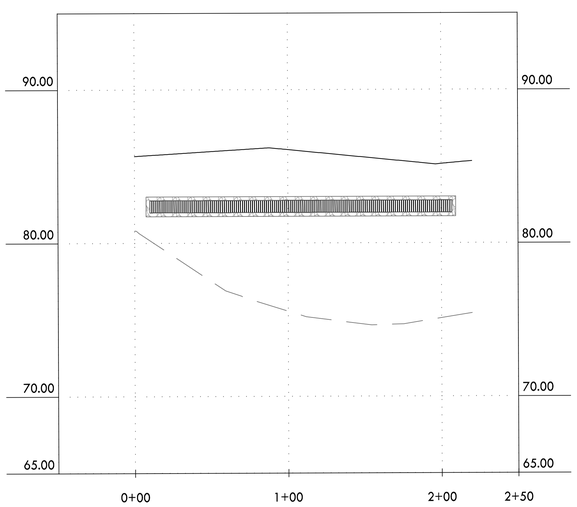
R-TANK (NORTHWEST)



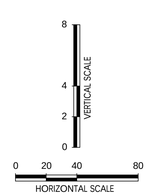
NOTES:
1. A GEOTEXTILE ENVELOPE IS REQUIRED TO PREVENT BACKFILL MATERIAL FROM ENTERING THE R-TANK MODULES. FOR INFILTRATION APPLICATIONS, WHEN WATER MUST INFILTRATE/EXFILTRATE THROUGH THE GEOTEXTILE AS A FUNCTION OF THE SYSTEM DESIGN, A WOVEN MONOFILAMENT (ACF M200 OR EQUIVALENT) SHALL BE USED.
2. BEDDING MATERIALS: STONE (ANGULAR AND SMALLER THAN 1.5" IN DIAMETER) SHALL BE USED BELOW THE R-TANK SYSTEM (3" MINIMUM). MATERIAL MUST BE FREE FROM LUMPS, DEBRIS, AND ANY SHARP OBJECTS THAT COULD CUT THE GEOTEXTILE. MATERIAL SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 AT THE TIME OF INSTALLATION. FOR INFILTRATION APPLICATIONS BEDDING MATERIAL SHALL BE FREE DRAINING.
3. SIDE AND TOP BACKFILL: DEEP APPLICATIONS (> 12" TOTAL COVER): FREE DRAINING STONE (ANGULAR AND SMALLER THAN 1.5" IN DIAMTER) SHALL BE USED ADJACENT TO (12" MINIMUM) AND ABOVE (FOR THE FIRST 12") THE R-TANK SYSTEM. MATERIAL MUST BE FREE FROM LUMPS, DEBRIS, AND ANY SHARP OBJECTS THAT COULD CUT THE GEOTEXTILE. MATERIAL SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 AT THE TIME OF INSTALLATION.



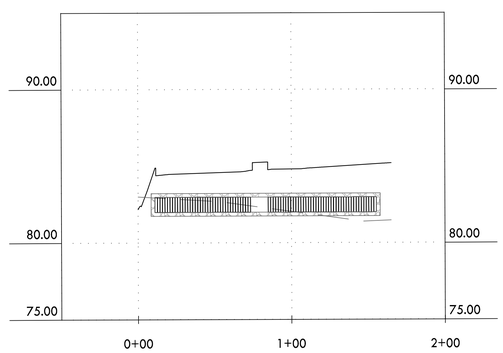
R-TANK (SOUTHWEST)



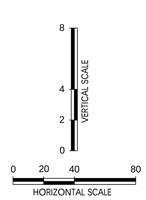
NOTES:
1. A GEOTEXTILE ENVELOPE IS REQUIRED TO PREVENT BACKFILL MATERIAL FROM ENTERING THE R-TANK MODULES. FOR STANDARD APPLICATIONS, THE STANDARD GEOTEXTILE SHALL BE A MINIMUM 8 OZ PER SQUARE YARD NONWOVEN GEOTEXTILE (ACF N080 OR EQUIVALENT).
2. BEDDING MATERIALS: STONE (ANGULAR AND SMALLER THAN 1.5" IN DIAMETER) SHALL BE USED BELOW THE R-TANK SYSTEM (3" MINIMUM). MATERIAL MUST BE FREE FROM LUMPS, DEBRIS, AND ANY SHARP OBJECTS THAT COULD CUT THE GEOTEXTILE. MATERIAL SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 AT THE TIME OF INSTALLATION. FOR INFILTRATION APPLICATIONS BEDDING MATERIAL SHALL BE FREE DRAINING.
3. SIDE AND TOP BACKFILL: DEEP APPLICATIONS (> 12" TOTAL COVER): FREE DRAINING STONE (ANGULAR AND SMALLER THAN 1.5" IN DIAMTER) SHALL BE USED ADJACENT TO (12" MINIMUM) AND ABOVE (FOR THE FIRST 12") THE R-TANK SYSTEM. MATERIAL MUST BE FREE FROM LUMPS, DEBRIS, AND ANY SHARP OBJECTS THAT COULD CUT THE GEOTEXTILE. MATERIAL SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 AT THE TIME OF INSTALLATION.



R-TANK (SOUTHEAST)



NOTES:
1. A GEOTEXTILE ENVELOPE IS REQUIRED TO PREVENT BACKFILL MATERIAL FROM ENTERING THE R-TANK MODULES. FOR INFILTRATION APPLICATIONS, WHEN WATER MUST INFILTRATE/EXFILTRATE THROUGH THE GEOTEXTILE AS A FUNCTION OF THE SYSTEM DESIGN, A WOVEN MONOFILAMENT (ACF M200 OR EQUIVALENT) SHALL BE USED.
2. BEDDING MATERIALS: STONE (ANGULAR AND SMALLER THAN 1.5" IN DIAMETER) SHALL BE USED BELOW THE R-TANK SYSTEM (3" MINIMUM). MATERIAL MUST BE FREE FROM LUMPS, DEBRIS, AND ANY SHARP OBJECTS THAT COULD CUT THE GEOTEXTILE. MATERIAL SHALL BE WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 AT THE TIME OF INSTALLATION. FOR INFILTRATION APPLICATIONS BEDDING MATERIAL SHALL BE FREE DRAINING.
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PROPOSED GRADING & DRAINAGE LEGEND

PROPOSED FLOODPLAIN

PROPOSED FILL

CRUNK ENGINEERING LLC
7112 CROSSROADS BOULEVARD
SUITE 201
BRENTWOOD, TN 37027
(615) 873-1795
WWW.CRUNKENG.COM

STENGEL-HILL ARCHITECTURE
613 WEST MAIN STREET
LOUISVILLE, KENTUCKY 40202
502.893.1875
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Civil Engineering
Structural Engineering
Skyhook STRUCTURAL ENGINEERING, P.C.
Mechanical/Electrical Engineering
Foodservices Design

ACADIA HEALTHCARE

ADAM W. CRUNK
No 78[illegible]
07/24/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

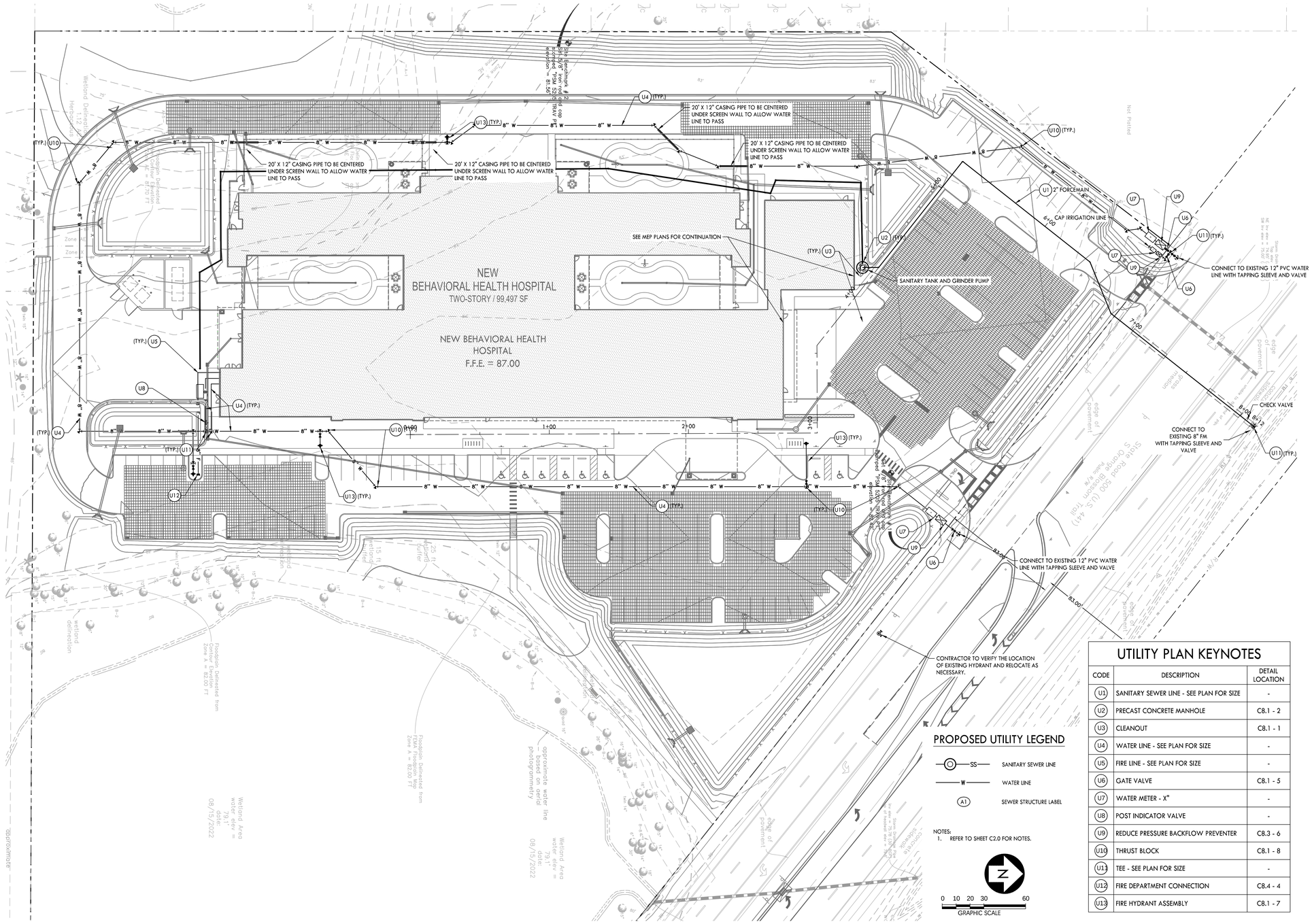
R-TANKS CROSS-SECTIONS
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C6.9

CRUNK ENGINEERING LLC
7112 CROSSROADS BOULEVARD
SUITE 201
BRENTWOOD, TN 37027
(615) 873-1795
WWW.CRUNKENG.COM

FORCE MAIN:
DEMAND = 150 GAL / DAY*BED
SIZE = 144 BEDS
DAILY FLOW = 20 GAL / MIN
PEAKING FACTOR = 4
PEAK FLOW = 80 GAL / MIN



PROPOSED UTILITY LEGEND

SS	SANITARY SEWER LINE
W	WATER LINE
A1	SEWER STRUCTURE LABEL

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.

UTILITY PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
U1	SANITARY SEWER LINE - SEE PLAN FOR SIZE	-
U2	PRECAST CONCRETE MANHOLE	C8.1 - 2
U3	CLEANOUT	C8.1 - 1
U4	WATER LINE - SEE PLAN FOR SIZE	-
U5	FIRE LINE - SEE PLAN FOR SIZE	-
U6	GATE VALVE	C8.1 - 5
U7	WATER METER - X"	-
U8	POST INDICATOR VALVE	-
U9	REDUCE PRESSURE BACKFLOW PREVENTER	C8.3 - 6
U10	THRUST BLOCK	C8.1 - 8
U11	TEE - SEE PLAN FOR SIZE	-
U12	FIRE DEPARTMENT CONNECTION	C8.4 - 4
U13	FIRE HYDRANT ASSEMBLY	C8.1 - 7

STENGEL-HILL
ARCHITECTURE
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LOUISVILLE, KENTUCKY 40202
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Mechanical/Electrical Engineering
cmta
Foodservices Design

ACADIA HEALTHCARE

NOT FOR CONSTRUCTION

JOHN W. CRUNK LICENSED No 76837 STATE OF TENNESSEE PROFESSIONAL ENGINEER 6/24/23

UTILITY PLANS
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C7.0

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STRUCTURAL ENGINEERING, P.C.
Mechanical/Electrical Engineering
Foodservices Design

FORCE MAIN:

DEMAND = 150 GAL / DAY * BED

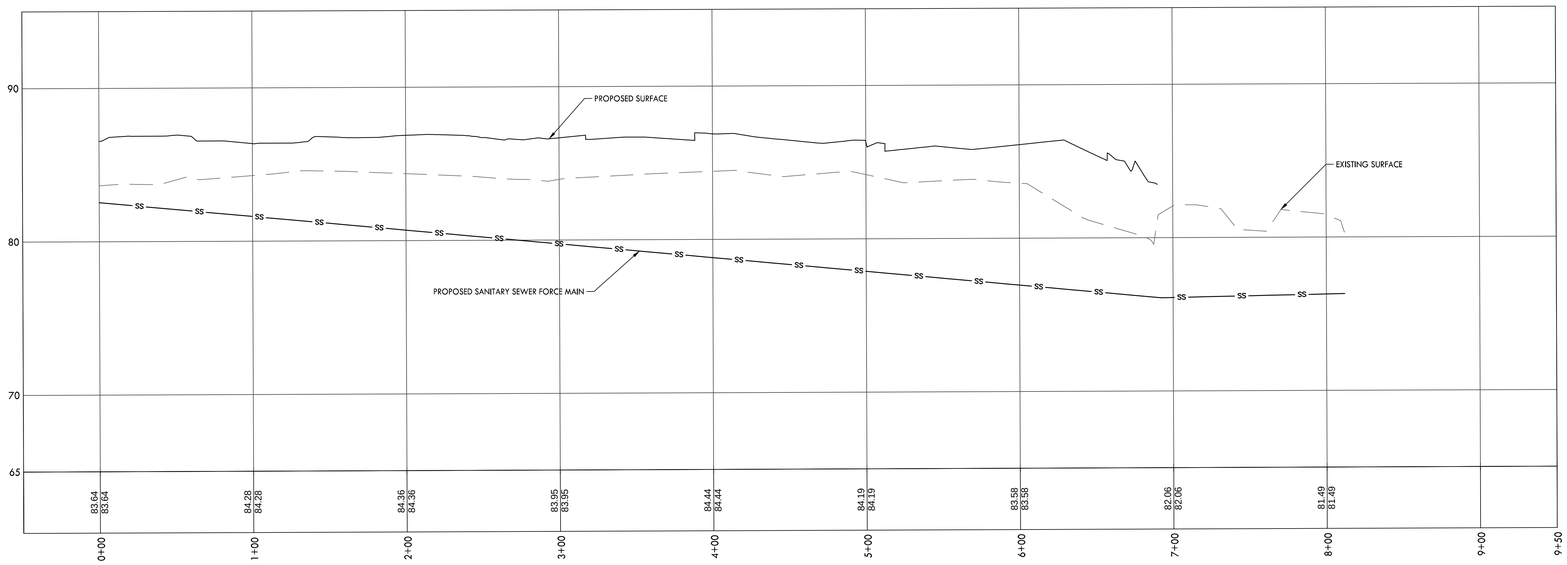
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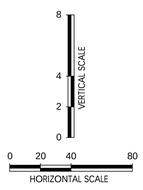
DAILY FLOW = 30 GAL / MIN

PEAKING FACTOR = 4

PEAK FLOW = 120 GAL / MIN

Alignment - FM

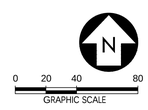




PROPOSED UTILITY LEGEND

- SS — SANITARY SEWER LINE
- W — WATER LINE
- A1 — SEWER STRUCTURE LABEL

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.



UTILITY PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
U1	SANITARY SEWER LINE - SEE PLAN FOR SIZE	-
U2	PRECAST CONCRETE MANHOLE	C8.1 - 2
U3	CLEANOUT	C8.1 - 1
U4	WATER LINE - SEE PLAN FOR SIZE	-
U5	FIRE LINE - SEE PLAN FOR SIZE	-
U6	GATE VALVE	C8.1 - 5
U7	WATER METER - X"	-
U8	POST INDICATOR VALVE	-
U9	REDUCE PRESSURE BACKFLOW PREVENTER	C8.3 - 6
U10	THRUST BLOCK	C8.1 - 8
U11	TEE - SEE PLAN FOR SIZE	-
U12	FIRE DEPARTMENT CONNECTION	C8.4 - 4
U13	FIRE HYDRANT ASSEMBLY	C8.1 - 7

ACADIA HEALTHCARE



NOT FOR CONSTRUCTION

SANITARY SEWER FORCE MAIN
EXHIBIT
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C7.1

CRUNK ENGINEERING LLC
7112 CROSSROADS BOULEVARD
SUITE 201
BRENTWOOD, TN 37027
(615) 873-1795
WWW.CRUNKENG.COM

STENGEL-HILL
ARCHITECTURE
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Civil Engineering
Structural Engineering
Skyhook
STRUCTURAL ENGINEERING, P.C.
Mechanical/Electrical Engineering
Foodservices Design

ACADIA HEALTHCARE

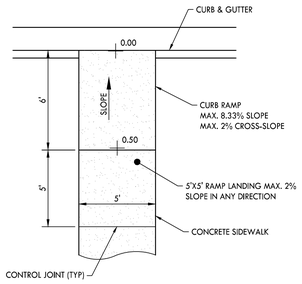
NOT FOR CONSTRUCTION

ADAM N. CRUNK
LICENSE NUMBER
No 78924
07/24/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

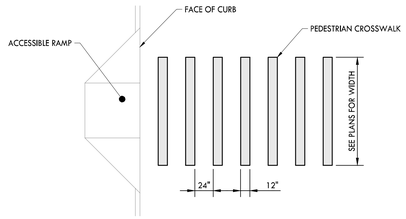
DETAILS
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C8.0



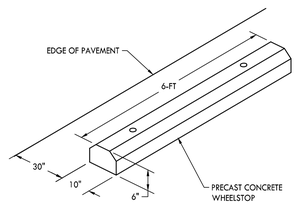
10 ACCESSIBLE RAMP - TYPE A
NOT TO SCALE



NOTES:

1. THE PEDESTRIAN CROSSWALK SHALL BE IN COMPLIANCE WITH ADAAG 403.3.
2. MARKINGS SHALL BE SOLID WHITE PAINTED ON ASPHALT.
3. PAINT 12" WIDE STRIPES AS INDICATED. USE PORTER "TRAFFIC WHITE" PAINT OR APPROVED EQUAL.

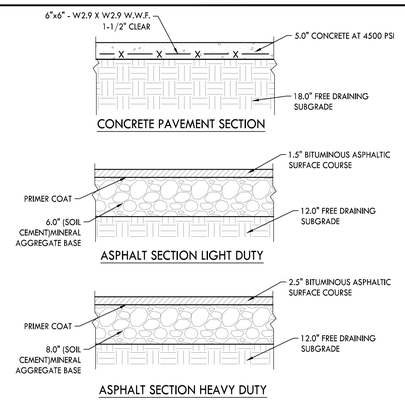
7 PEDESTRIAN CROSSWALK
NOT TO SCALE



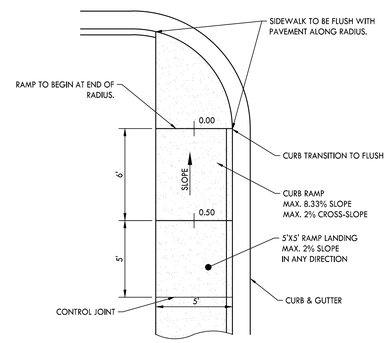
NOTES:

1. CONCRETE TO BE 3500 PSI.
2. REINFORCED WITH 2 #3 BARS.

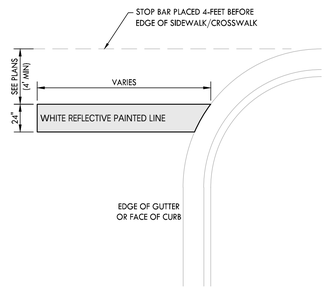
4 CONCRETE WHEELSTOP
NOT TO SCALE



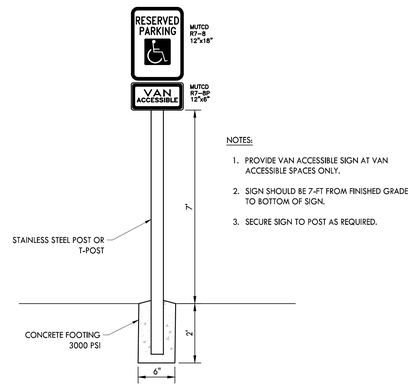
1 PAVEMENT SECTIONS
NOT TO SCALE



11 ACCESSIBLE RAMP - TYPE B
NOT TO SCALE



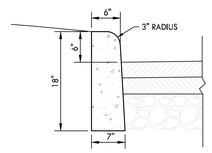
8 24" PAINTED STOP BAR
NOT TO SCALE



NOTES:

1. PROVIDE VAN ACCESSIBLE SIGN AT VAN ACCESSIBLE SPACES ONLY.
2. SIGN SHOULD BE 7-FT FROM FINISHED GRADE TO BOTTOM OF SIGN.
3. SECURE SIGN TO POST AS REQUIRED.

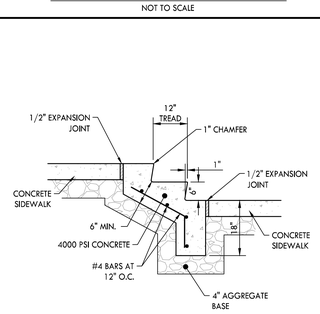
5 ACCESSIBLE PARKING SIGN
NOT TO SCALE



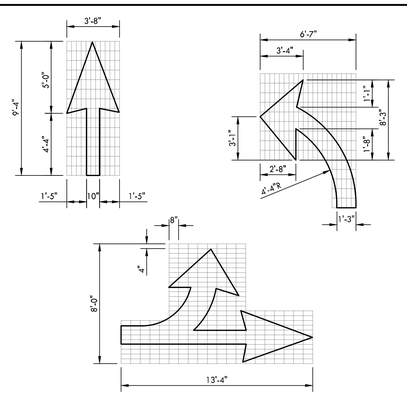
NOTES:

1. CONCRETE TO BE 4000 PSI.
2. PROVIDE CONTROL JOINTS EVERY 10 LINEAR FEET ALONG CURB.
3. PROVIDE EXPANSION JOINTS EVERY 90 LINEAR FEET.

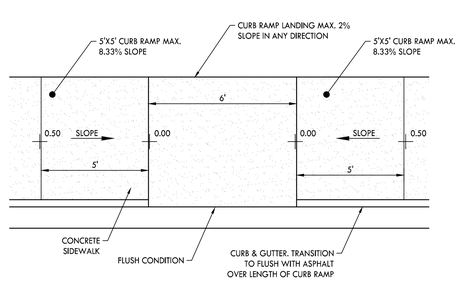
2 POST CURB
NOT TO SCALE



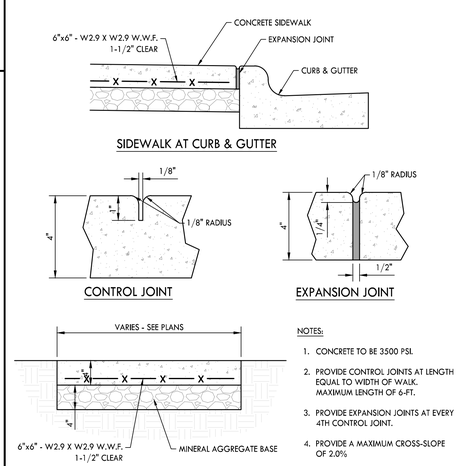
12 CONCRETE STAIRS
NOT TO SCALE



9 DIRECTIONAL ARROW
NOT TO SCALE



6 CURB RAMP AT ACCESSIBLE PARKING
NOT TO SCALE



NOTES:

1. CONCRETE TO BE 3500 PSI.
2. PROVIDE CONTROL JOINTS AT LENGTH EQUAL TO WIDTH OF WALK. MAXIMUM LENGTH OF 6-FT.
3. PROVIDE EXPANSION JOINTS AT EVERY 4TH CONTROL JOINT.
4. PROVIDE A MAXIMUM CROSS-SLOPE OF 2.0%

3 CONCRETE SIDEWALK
NOT TO SCALE

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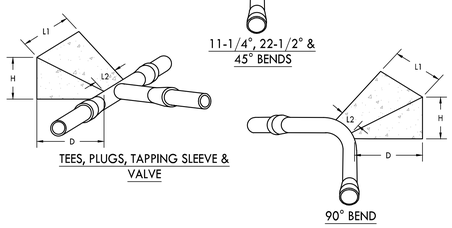
Structural Engineering
Skyhook
STRUCTURAL ENGINEERING, P.C.

Mechanical/Electrical Engineering
cmta ENGINEERING CONSULTANTS

Foodservices Design

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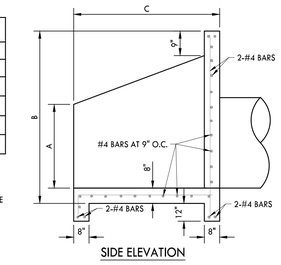


THRUST BLOCK DIMENSIONS							
PIPE SIZE (IN)		2" & 2-1/4"	3" & 4"	6"	8"	10"	12"
TEES, PLUGS & TAPPING SLEEVES	L1	18"	24"	24"	36"	48"	54"
	L2	10"	12"	16"	18"	24"	30"
	H	12"	12"	18"	18"	18"	24"
	D	18"	18"	18"	18"	24"	24"
	CU. FT	1.90	2.25	3.50	5.05	7.15	13.40
90° BENDS	L1	18"	24"	30"	39"	54"	54"
	L2	10"	12"	16"	18"	32"	32"
	H	12"	12"	18"	24"	24"	36"
	D	18"	18"	18"	18"	18"	24"
	CU. FT	1.90	2.25	4.05	7.30	10.25	18.15
45° BENDS	L1	18"	18"	24"	30"	36"	42"
	L2	6"	8"	10"	11"	18"	18"
	H	12"	12"	16"	18"	21"	24"
	D	18"	18"	18"	18"	18"	24"
	CU. FT	1.50	1.60	3.20	3.95	4.60	9.60
22-1/2° BENDS	L1	18"	18"	24"	24"	24"	24"
	L2	6"	8"	10"	11"	18"	18"
	H	12"	12"	16"	18"	21"	24"
	D	18"	18"	18"	18"	18"	24"
	CU. FT	1.50	1.60	3.20	3.40	4.60	6.80
11-1/4° BENDS	L1	18"	18"	24"	24"	24"	24"
	L2	6"	8"	10"	11"	18"	18"
	H	12"	12"	16"	18"	21"	21"
	D	18"	18"	18"	18"	18"	24"
	CU. FT	1.50	1.60	3.20	3.40	4.60	6.10

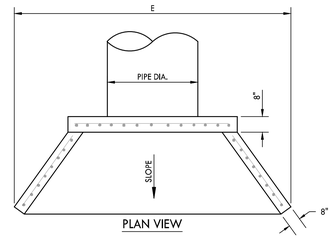
8 THRUST BLOCK
NOT TO SCALE

DIMENSION TABLE					
PIPE DIA.	A	B	C	D	E
UP TO 18"	15"	36"	30"	50"	96"
18" TO 30"	24"	48"	42"	62"	120"
30" TO 42"	30"	60"	48"	76"	136"
42" TO 60"	36"	80"	54"	96"	160"
60" TO 72"	42"	92"	66"	108"	176"

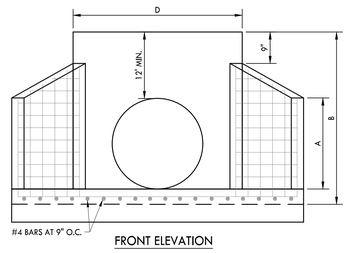
NOTES:
1. CONCRETE TO BE 4000 PSI.
2. REINFORCING STEEL SHALL MEET ASTM A615 FOR GRADE 60. MIN. 2" CLEARANCE.
3. PIPE TO BE GROUTED INTO HEADWALL ON SITE.
4. PRECAST HEADWALLS ARE ACCEPTABLE IN LIEU OF CAST IN PLACE. PRECAST ELEMENTS TO MEET ASTM C913
5. CHAMFER ALL CORNERS 1".



SIDE ELEVATION

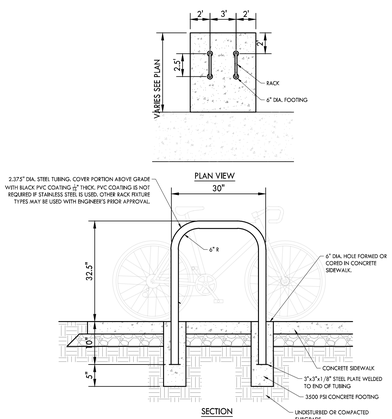


PLAN VIEW

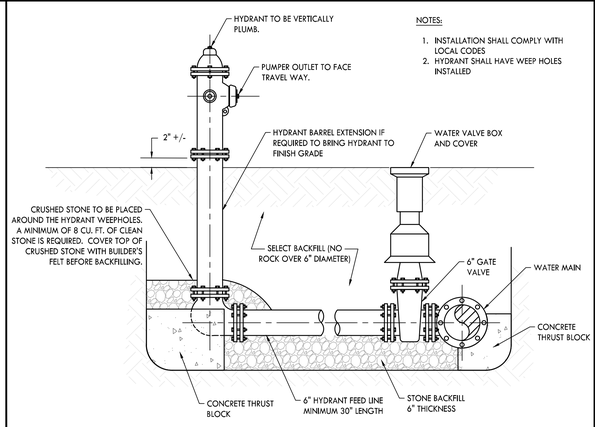


FRONT ELEVATION

6 CONCRETE HEADWALL
NOT TO SCALE

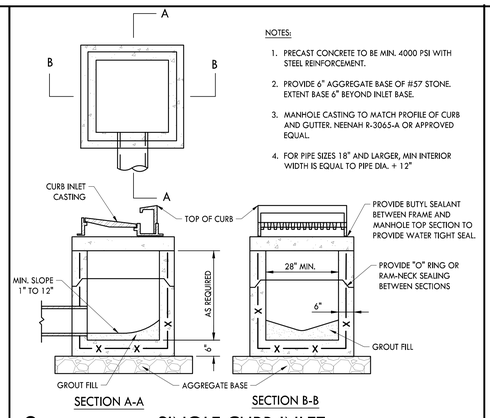


9 BIKE RACK
NOT TO SCALE



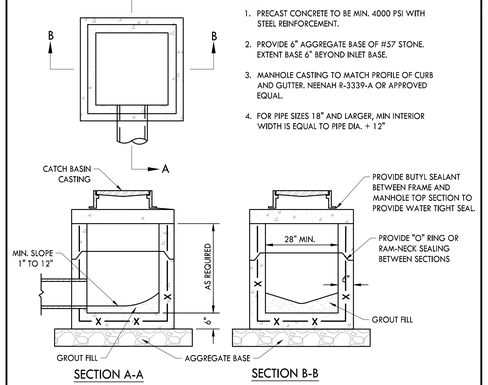
NOTES:
1. INSTALLATION SHALL COMPLY WITH LOCAL CODES
2. HYDRANT SHALL HAVE WEEP HOLES INSTALLED

7 FIRE HYDRANT ASSEMBLY
NOT TO SCALE



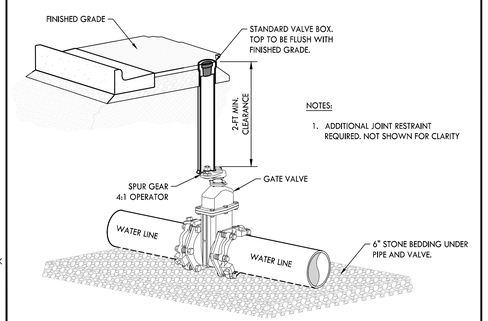
NOTES:
1. PRECAST CONCRETE TO BE MIN. 4000 PSI WITH STEEL REINFORCEMENT.
2. PROVIDE 6" AGGREGATE BASE OF #57 STONE. EXTENT BASE 6" BEYOND INLET BASE.
3. MANHOLE CASTING TO MATCH PROFILE OF CURB AND GUTTER. NEENAH R-3065-A OR APPROVED EQUAL.
4. FOR PIPE SIZES 18" AND LARGER, MIN INTERIOR WIDTH IS EQUAL TO PIPE DIA. + 12"

3 SINGLE CURB INLET
NOT TO SCALE



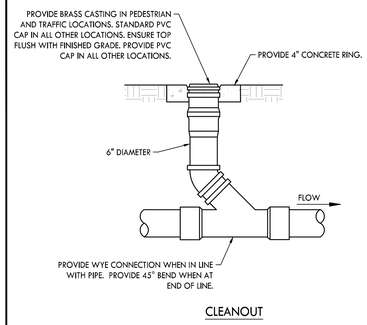
NOTES:
1. PRECAST CONCRETE TO BE MIN. 4000 PSI WITH STEEL REINFORCEMENT.
2. PROVIDE 6" AGGREGATE BASE OF #57 STONE. EXTENT BASE 6" BEYOND INLET BASE.
3. MANHOLE CASTING TO MATCH PROFILE OF CURB AND GUTTER. NEENAH R-3339-A OR APPROVED EQUAL.
4. FOR PIPE SIZES 18" AND LARGER, MIN INTERIOR WIDTH IS EQUAL TO PIPE DIA. + 12"

4 SINGLE CATCH BASIN
NOT TO SCALE



NOTES:
1. ADDITIONAL JOINT RESTRAINT REQUIRED. NOT SHOWN FOR CLARITY

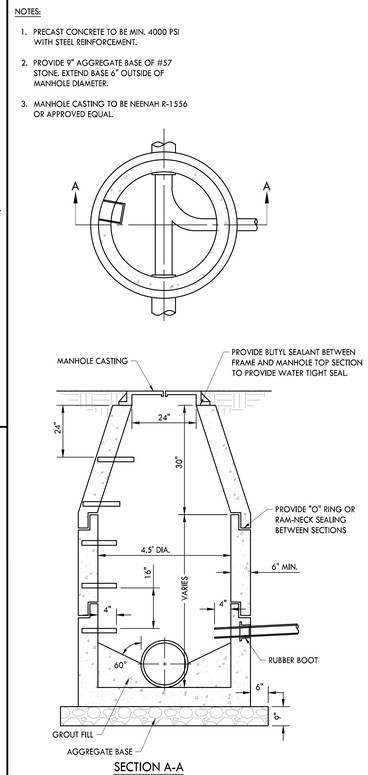
5 GATE VALVE
NOT TO SCALE



CLEANOUT

1 CLEANOUT
NOT TO SCALE

NOTES:
1. PRECAST CONCRETE TO BE MIN. 4000 PSI WITH STEEL REINFORCEMENT.
2. PROVIDE 9" AGGREGATE BASE OF #57 STONE. EXTEND BASE 6" OUTSIDE OF MANHOLE DIAMETER.
3. MANHOLE CASTING TO BE NEENAH R-1556 OR APPROVED EQUAL.

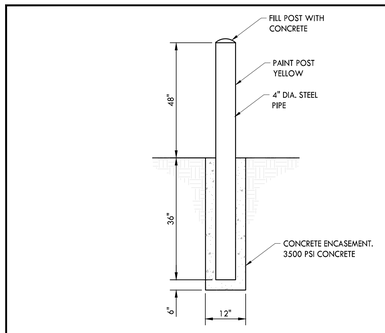


2 PRECAST CONCRETE MANHOLE
NOT TO SCALE

DETAILS
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

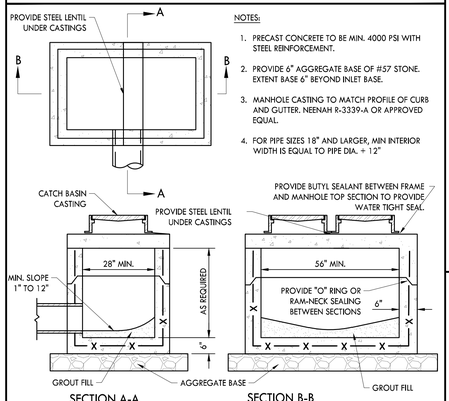
15 JUNE 2023

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10 CONCRETE BOLLARD

NOT TO SCALE

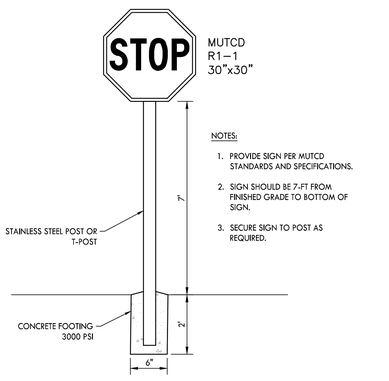


NOTES:

1. PRECAST CONCRETE TO BE MIN. 4000 PSI WITH STEEL REINFORCEMENT.
2. PROVIDE 6" AGGREGATE BASE OF #57 STONE. EXTENT BASE 6" BEYOND INLET BASE.
3. MANHOLE CASTING TO MATCH PROFILE OF CURB AND GUTTER. NEENAH R-3339-A OR APPROVED EQUAL.
4. FOR PIPE SIZES 18" AND LARGER, MIN INTERIOR WIDTH IS EQUAL TO PIPE DIA. + 12"

11 DOUBLE CATCH BASIN

NOT TO SCALE

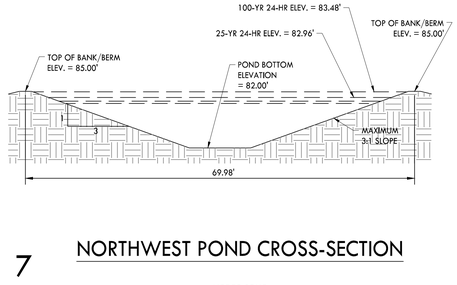


NOTES:

1. PROVIDE SIGN PER MUTCD STANDARDS AND SPECIFICATIONS.
2. SIGN SHOULD BE 7-FT FROM FINISHED GRADE TO BOTTOM OF SIGN.
3. SECURE SIGN TO POST AS REQUIRED.

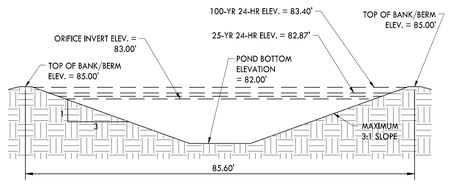
12 STOP SIGN

NOT TO SCALE



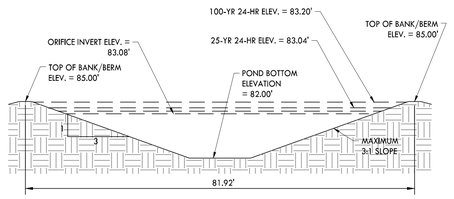
7 NORTHWEST POND CROSS-SECTION

NOT TO SCALE



8 SOUTHWEST POND CROSS-SECTION

NOT TO SCALE

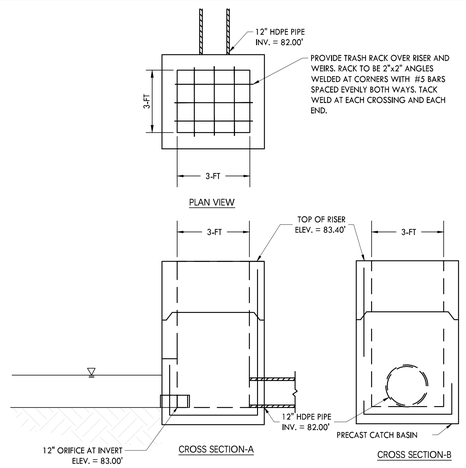


9 SOUTHEAST CROSS-SECTION

NOT TO SCALE

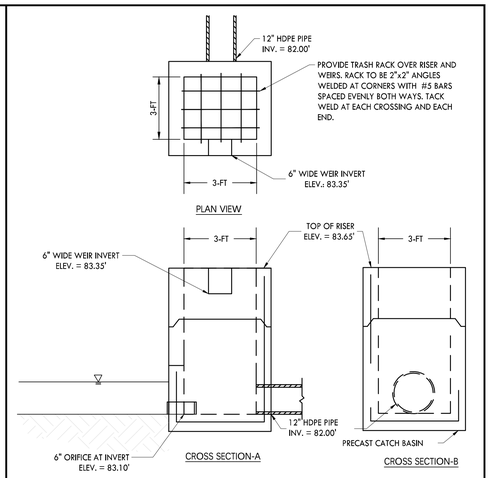
13 RESERVED

NOT TO SCALE



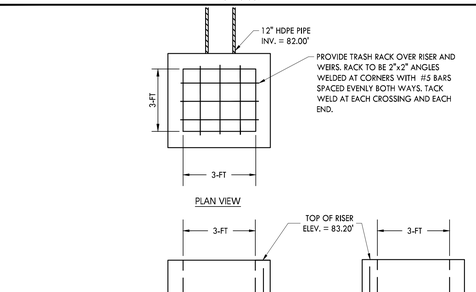
3 SOUTHWEST POND OUTLET STRUCTURE

NOT TO SCALE



1 EAST POND OUTLET STRUCTURE

NOT TO SCALE

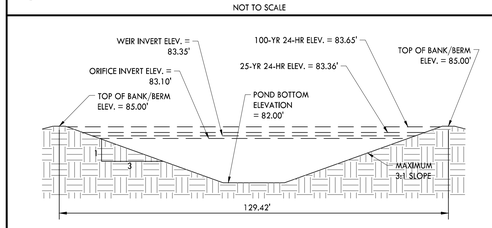


4 SOUTHEAST POND OUTLET STRUCTURE

NOT TO SCALE

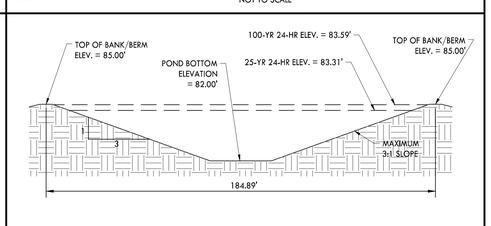
2 RESERVED

NOT TO SCALE



6 EAST POND CROSS-SECTION

NOT TO SCALE



5 NORTH POND CROSS-SECTION

NOT TO SCALE

CRUNK ENGINEERING LLC
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Foodservices Design

ACADIA HEALTHCARE

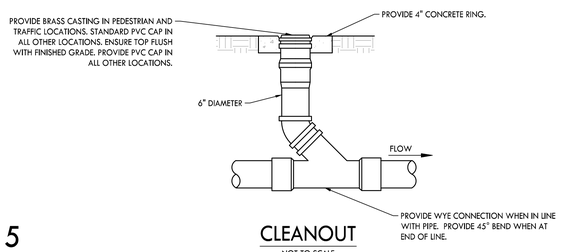
NOT FOR CONSTRUCTION



DETAILS
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

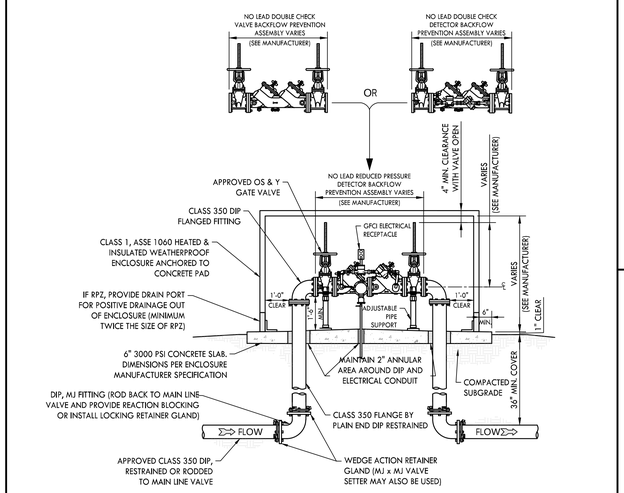
C8.2



5 CLEANOUT

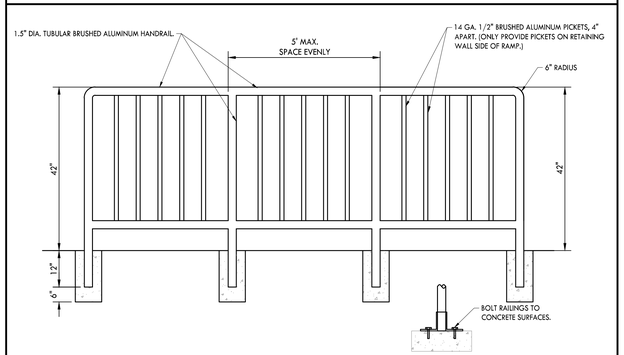
NOT TO SCALE

NOTES:
1. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY SHALL COMPLY WITH ASSE 1013 & AWWA C511.
2. REDUCED PRESSURE DETECTOR BACKFLOW PREVENTION ASSEMBLY SHALL COMPLY WITH ASSE 1047.
3. DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY SHALL COMPLY WITH ASSE 1015 & AWWA C510.
4. DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSEMBLY SHALL COMPLY WITH ASSE 1048.
5. BACKFLOW ASSEMBLY SHALL BE CENTERED ON CONCRETE PAD AND CENTERED WITHIN ENCLOSURE.
6. CLASS I, ASSE 1060 HEATED AND INSULATED WEATHERPROOF ENCLOSURE REQUIRED.
7. STANDARD 120V GFCI ELECTRICAL RECEPTACLE TO BE INSTALLED IN ACCORDANCE WITH THE N.C. ELECTRICAL CODE FOR OUTDOOR OPERATION.
8. PIPE MATERIAL SHALL BE CLASS 350 DIP APPROVED BY THE TOWN.
9. INSTALLATION SHALL BE IN COMPLIANCE WITH ALL APPLICABLE TOWN ORDINANCES AND SPECIFICATIONS IN ADDITION TO THE N.C. PLUMBING CODE.
10. PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE AND OPERATION OF BACKFLOW ASSEMBLY AND COMPLIANCE WITH REPORTING AND TESTING REQUIREMENTS.
11. ALL 'NO LEAD' BRASS COMPONENTS SHALL MEET UNS C89833 AS PER ASTM B584.



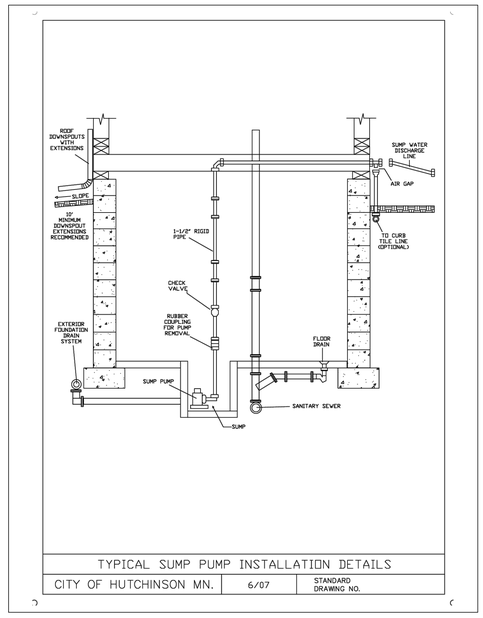
6 REDUCE PRESSURE BACKFLOW PREVENTER

NOT TO SCALE



7 PEDESTRIAN GUARDRAIL

NOT TO SCALE

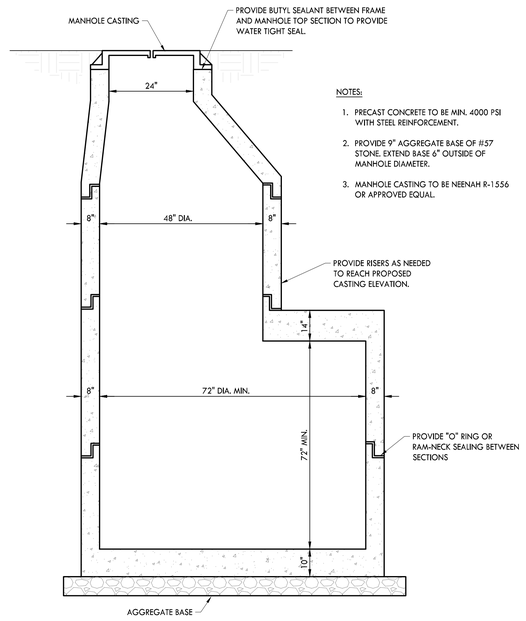


TYPICAL SUMP PUMP INSTALLATION DETAILS

CITY OF HUTCHINSON MN.	6/07	STANDARD DRAWING NO.

3 SEDIMENT SUMP PUMP

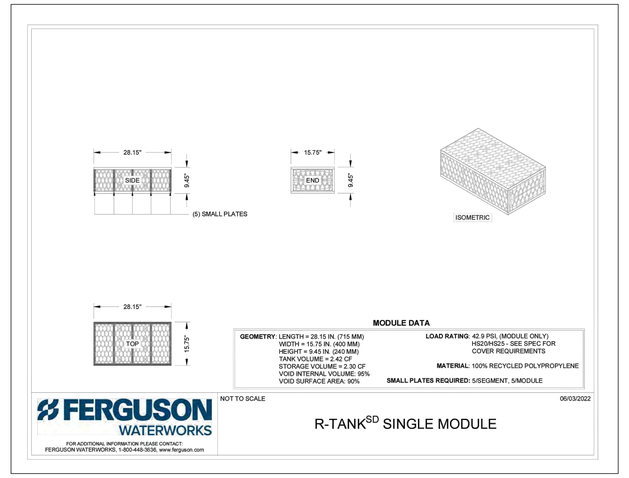
NOT TO SCALE



NOTES:
1. PRECAST CONCRETE TO BE MIN. 4000 PSI WITH STEEL REINFORCEMENT.
2. PROVIDE 9" AGGREGATE BASE OF #57 STONE. EXTEND BASE 6" OUTSIDE OF MANHOLE DIAMETER.
3. MANHOLE CASTING TO BE NEENAH R-1556 OR APPROVED EQUAL.

4 STORMWATER JUNCTION BOX (LARGE DIAMETER)

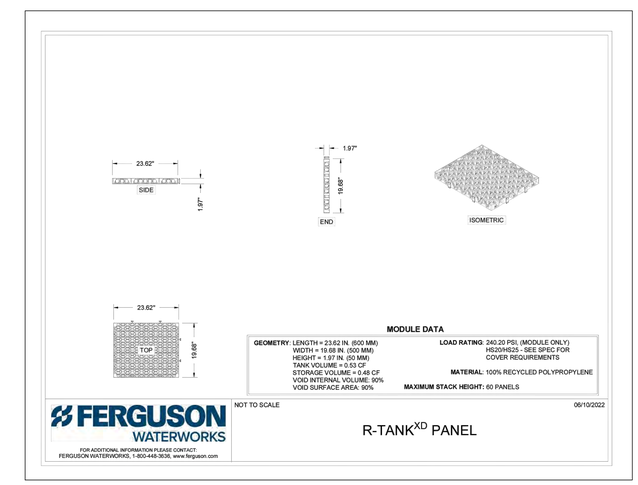
NOT TO SCALE



NOTES:
1. INSTALL R-TANK UNITS PER MANUFACTURERS RECOMMENDATIONS.
2. ENSURE PIPE CONNECTIONS TO R-TANK UNITS IS MADE PER MANUFACTURER RECOMMENDATIONS.
3. FREE DRAINING STONE NOT TO BE USED UNLESS SURROUNDING SOILS FAIL TO MEET SPECIFICATIONS SET FORTH BY FERGUSON WATERWORKS.

1 UNDERGROUND DETENTION AREA R-TANK MODEL: SD SINGLE MODULE

NOT TO SCALE



NOTES:
1. INSTALL R-TANK UNITS PER MANUFACTURERS RECOMMENDATIONS.
2. ENSURE PIPE CONNECTIONS TO R-TANK UNITS IS MADE PER MANUFACTURER RECOMMENDATIONS.
3. FREE DRAINING STONE NOT TO BE USED UNLESS SURROUNDING SOILS FAIL TO MEET SPECIFICATIONS SET FORTH BY FERGUSON WATERWORKS.

2 UNDERGROUND DETENTION AREA R-TANK MODEL: XD PANEL

NOT TO SCALE

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DETAILS
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APOPKA, FLORIDA

15 JUNE 2023

C8.3

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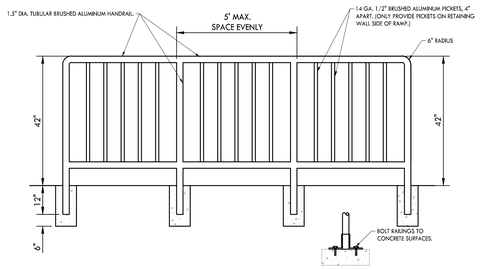
Structural Engineering
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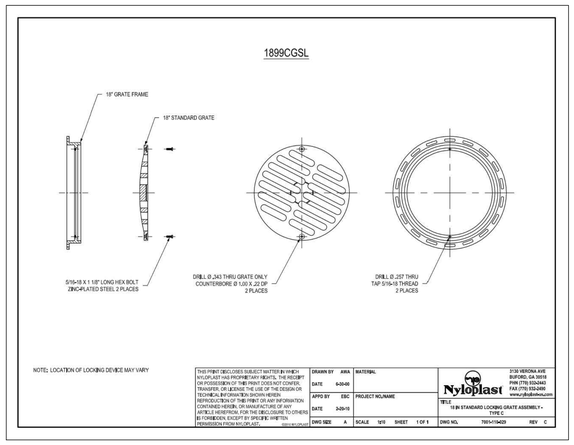
Foodservices Design

ACADIA HEALTHCARE

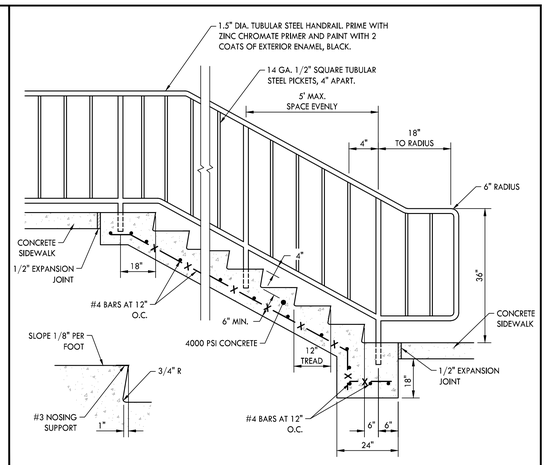
NOT FOR CONSTRUCTION



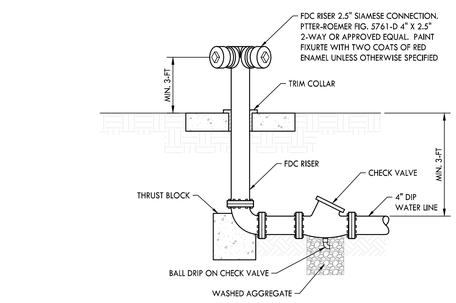
6 PEDESTRIAN GUARDRAIL
NOT TO SCALE



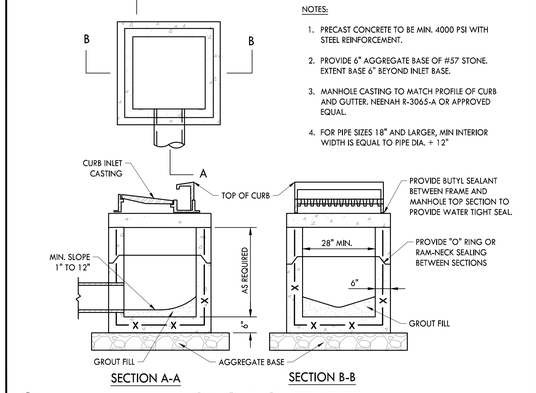
3 18' LOCKING GRATE
NOT TO SCALE



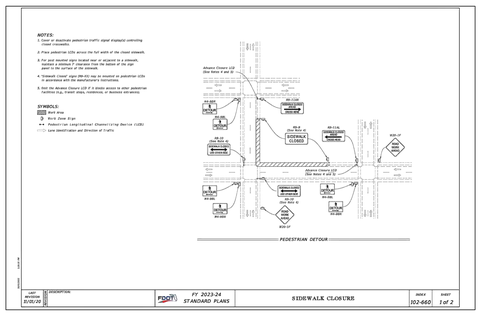
1 STAIRS AND HANDRAIL
NOT TO SCALE

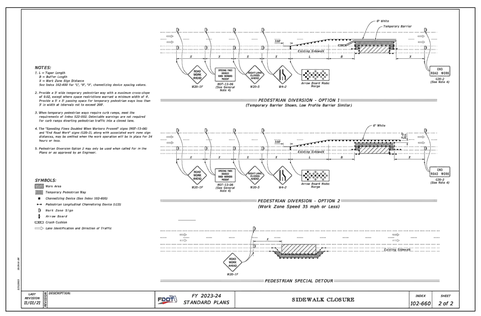


4 FIRE DEPARTMENT CONNECTION
NOT TO SCALE



2 SINGLE CURB INLET
NOT TO SCALE





5 FDOT SIDEWALK CLOSURE
NOT TO SCALE

6 RESERVED
NOT TO SCALE

DETAILS
NEW BEHAVIORAL HEALTH HOSPITAL
ORLANDO HEALTH JV
APOPKA, FLORIDA

15 JUNE 2023

C8.4

TREE PROTECTION STANDARDS

CITY OF APOPKA, FL PART III, ARTICLE 5, SECTION 5.3 CODE OF ORDINANCES

EXISTING TREE CANOPY INVENTORY (CANOPY 10" DBH + UNDERSTORY 4" CAL.)

- EXISTING TREE CANOPY SHALL NOT INCLUDE PROHIBITED TREE SPECIES.
- EAR TREE (ENTERLOBIUM CYCLACARPUML CONTORTISILIQUUM) IS A PROHIBITED PLANT PER APPENDIX C AND CAMPHOR (CINNAMOMUM CAMPHORA) BASED ON UF/IFAS.
- PRESERVED 118" DBH OF SPECIMEN SIZE TREES.

TREE INVENTORY:

(A) TOTAL TREE INCHES ON CURRENT, NON-ALTERED SITE: 2,644"

(B) TOTAL TREE INCHES TO BE REMOVED: 1,355"

- 122" OF KNOWN INVASIVE TREES (DO NOT QUALIFY)
- NET TOTAL: 1,233 (1,355" - 122"); INCLUDES 370" OF TREES CLASSIFIED AS SPECIMEN (24" DBH +)

(C) TOTAL TREE INCHES TO BE REPLACED: NONE, SITE IS IN COMPLIANCE

(D) MAXIMUM TREE STOCK AND CALCULATIONS:

(E) QUANTITY OF SPECIMEN TREES (24" OR GREATER) BEING REMOVED: 370" DBH

- 26" = 1
- 29" = 1
- 30" = 2
- 35" = 1
- 36" = 5
- 40" = 1

(F) SITE CLEARING AREA IN SQUARE FEET AND ACRES:

- 258,296 S.F. OR 5.93 AC.

(G) MINIMUM PERCENTAGE OF DEVELOPMENT SITE EXISTING TREE CANOPY COVER THAT IS REQUIRED TO BE RETAINED AND PROTECTED:

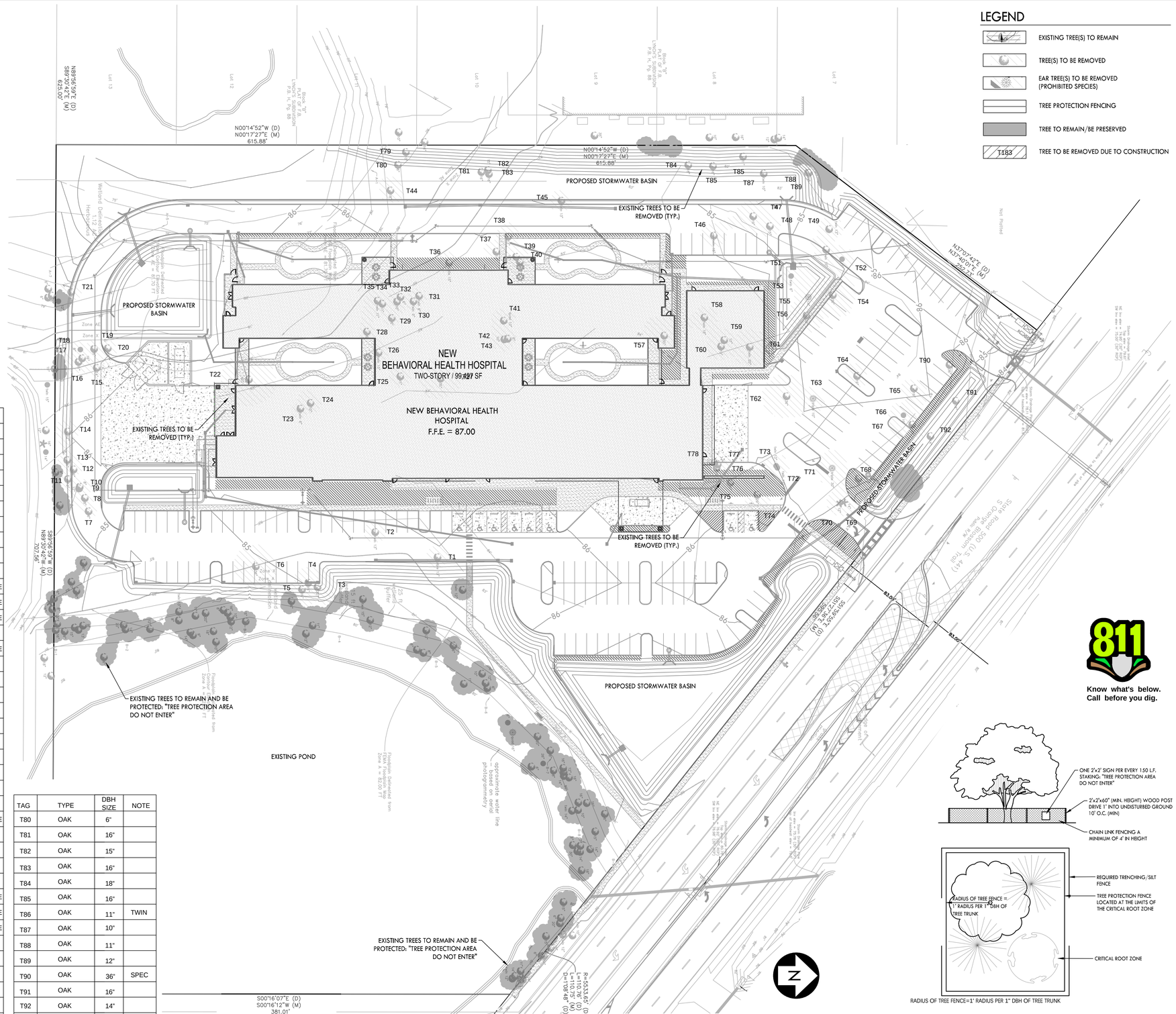
- TOTAL SITE AREA: 441,838 S.F. (10.1 ACRES); SITE ZONING: C-R
- EXISTING TREE CANOPY COVER: 10.81% OF SITE (47,765 S.F.)
- TREE CANOPY RETENTION (20% -10.81% = 9.19% PNTS., 9.19 x 0.05 = 0.46% PNTS.; THEREFORE, 0.46 + 7 = 7.46%
- MIN. REQUIRED % FOR C-R ZONE = 7.46 OF EXISTING TREE COVER OR 0.81% OF THE TOTAL DEVELOPMENT SITE
- TREE CANOPY TO REMAIN: 17,152 S.F. OR 3.88% OF SITE

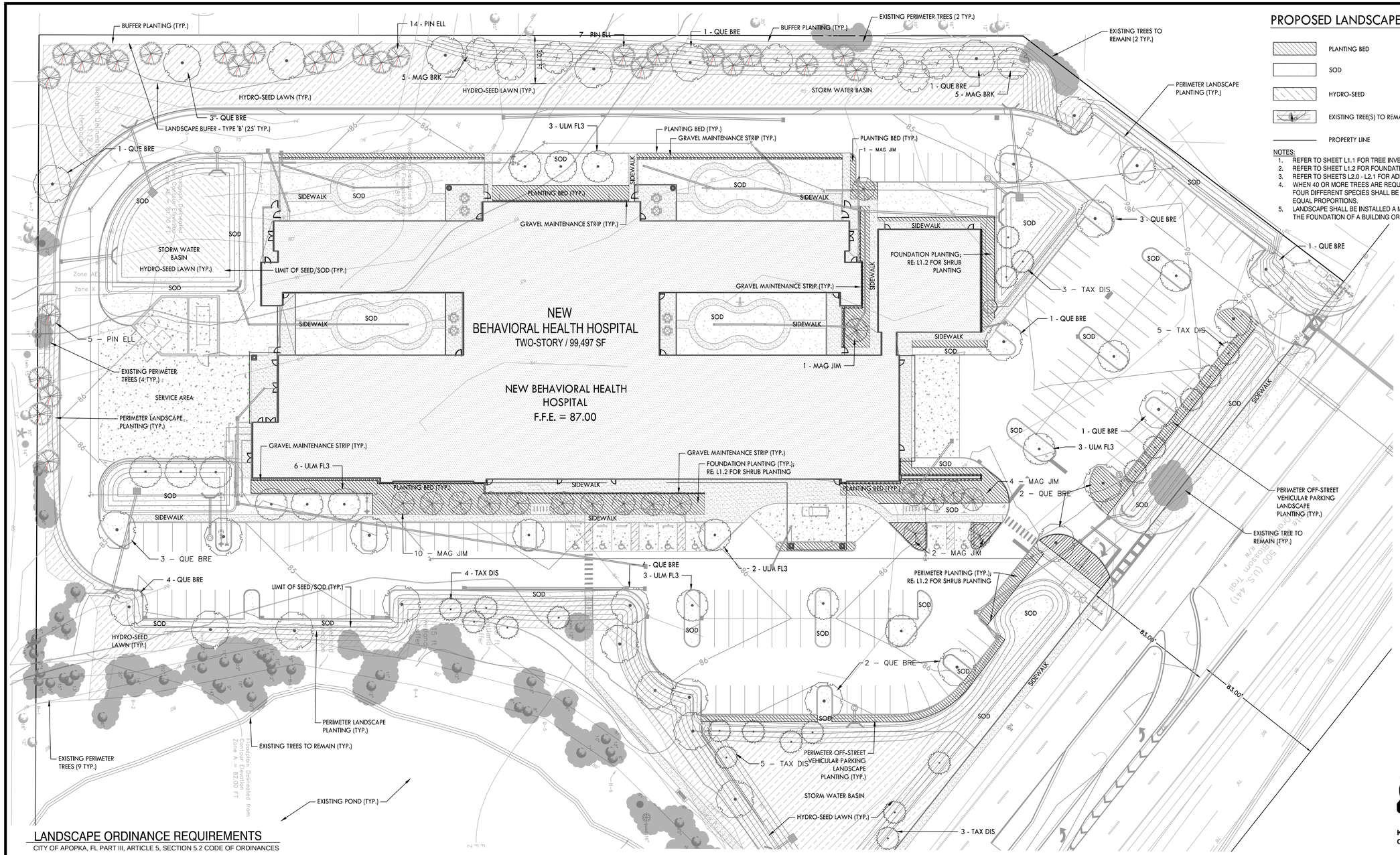
TREES REMOVED

TAG	TYPE	DBH SIZE	NOTE
T1	OAK	13"	TRIPLE
T2	OAK	13"	TWIN
T3	OAK	30"	SPEC
T4	OAK	15"	
T5	OAK	16"	
T6	OAK	36"	SPEC
T7	OAK	6"	
T8	OAK	8"	
T9	OAK	12"	
T10	OAK	8"	
T11	OAK	12"	
T12	OAK	6"	
T13	OAK	6"	
T14	OAK	12"	
T15	OAK	14"	
T16	OAK	11"	
T17	OAK	16"	
T18	CAMPHOR	8"	INVASIVE
T19	OAK	8"	
T20	OAK	8"	
T21	OAK	11"	
T22	OAK	40"	SPEC
T23	OAK	6"	TWIN
T24	OAK	10"	
T25	OAK	11"	
T26	OAK	15"	TWIN
T27	OAK	35"	SPEC
T28	OAK	8"	
T29	OAK	8"	
T30	OAK	9"	TWIN
T31	OAK	8"	TWIN
T32	OAK	6"	
T33	OAK	10"	
T34	OAK	11"	
T35	OAK	11"	TWIN
T36	OAK	15"	TRIPLE
T37	OAK	12"	
T38	OAK	13"	
T39	OAK	10"	

TAG	TYPE	DBH SIZE	NOTE
T40	OAK	10"	
T41	OAK	13"	QUAD
T42	OAK	10"	
T43	OAK	8"	
T44	OAK	18"	
T45	OAK	13"	TWIN
T46	OAK	15"	TWIN
T47	OAK	19"	
T48	OAK	15"	
T49	OAK	13"	TWIN
T50	OAK	10"	TWIN
T51	CAMPHOR	8"	INVASIVE
T52	CAMPHOR	11"	INVASIVE
T53	CAMPHOR	6"	INVASIVE
T54	OAK	36"	SPEC
T55	EAR TREE	14"	INVASIVE
T56	OAK	26"	SPEC
T57	OAK	30"	SPEC
T58	OAK	18"	TWIN
T59	OAK	12"	
T60	OAK	19"	
T61	OAK	20"	TWIN
T62	OAK	36"	SPEC
T63	CHINA BERRY	10"	TRIPLE
T64	OAK	19"	
T65	OAK	16"	
T66	CAMPHOR	19"	INVASIVE
T67	OAK	36"	SPEC
T68	OAK	8"	
T69	PALM	14"	
T70	PALM	12"	
T71	EAR TREE	30"	INVASIVE
T72	CAMPHOR	13"	INVASIVE
T73	CAMPHOR	13"	INVASIVE
T74	OAK	29"	SPEC
T75	OAK	8"	
T76	OAK	14"	
T77	OAK	14"	
T78	OAK	10"	
T79	OAK	10"	

TAG	TYPE	DBH SIZE	NOTE
T80	OAK	6"	
T81	OAK	16"	
T82	OAK	15"	
T83	OAK	16"	
T84	OAK	18"	
T85	OAK	16"	
T86	OAK	11"	TWIN
T87	OAK	10"	
T88	OAK	11"	
T89	OAK	12"	
T90	OAK	36"	SPEC
T91	OAK	16"	
T92	OAK	14"	


NEW BEHAVIORAL HEALTH HOSPITAL
TWO-STORY / 99,437 SF
NEW BEHAVIORAL HEALTH HOSPITAL
F.F.E. = 87.00
PROPOSED STORMWATER BASIN
EXISTING TREES TO BE REMOVED (TYP.)
EXISTING TREES TO REMAIN AND BE PROTECTED: "TREE PROTECTION AREA DO NOT ENTER"
EXISTING POND
approximate water line - based on aerial photogrammetry
Floodplain Delineated from FEMA Floodplain Map Zone A = 82.00 FT
N00°14'52"W (D) N00°17'27"E (M) 615.88'
S00°16'07"E (D) S00°16'12"W (M) 381.01'
N37°40'01"E (D) N37°40'01"E (M) 207.25'
S89°30'26"W (M) S89°30'26"W (D) 207.25'
R=5535.65' (D) L=110.76' (M) L=110.75' (D) D=1°08'48" (D)
43.0'
83.0'
Swale Road 500 (U.S. 441) Pavement Edge
S Orange Blossom Trail
Top of Bank
Toe of Bank
Wetland Delineated by Ecosystem Research
Wetland Delineated by Ecosystem Research
Zone X
Zone AE
Zone A
Zone X
Flood Zone Boundary
Floodplain Delineated from FEMA Floodplain Map Zone A = 82.00 FT
Flood Zone Boundary
Top of Bank
Toe of Bank
Top of Bank
Toe of Bank
Top of Bank
Toe of Bank



PROPOSED LANDSCAPE LEGEND

- PLANTING BED
- SOD
- HYDRO-SEED
- EXISTING TREE(S) TO REMAIN
- PROPERTY LINE

NOTES:
1. REFER TO SHEET L1.1 FOR TREE INVENTORY.
2. REFER TO SHEET L1.2 FOR FOUNDATION PLANTING & PLANT LIST.
3. REFER TO SHEETS L2.0 - L2.1 FOR ADDITIONAL NOTES & DETAILS.
4. WHEN 40 OR MORE TREES ARE REQUIRED ON A SITE, AT LEAST FOUR DIFFERENT SPECIES SHALL BE UTILIZED, IN ROUGHLY EQUAL PROPORTIONS.
5. LANDSCAPE SHALL BE INSTALLED A MINIMUM OF 2.5 FEET FROM THE FOUNDATION OF A BUILDING OR STRUCTURE.

LANDSCAPE ORDINANCE REQUIREMENTS

CITY OF APOPKA, FL PART III, ARTICLE 5, SECTION 5.2 CODE OF ORDINANCES

FOUNDATION PLANTING REQUIREMENT
- APPLY TO ALL COMMERCIAL DEVELOPMENT
- ALL PLANT MATERIALS SHALL BE FLORIDA NO. ONE GRADE OR BETTER
- ALL BUILDINGS FACING RIGHTS-OF-WAY SHALL CONTAIN A FOUNDATION LANDSCAPING AREA ADJACENT TO THE BUILDING THAT IS A MINIMUM OF FOUR FEET IN WIDTH AND EXTENDS THE ENTIRE LENGTH OF THE BUILDING FACADE
- MIN. 24" HT. SHRUBS WITH A MAX. SPACING OF 30" O.C.
- MIN. ONE (1) SMALL TREE PER 20 L.F. OF BUILDING FACADE FACING STREET

REQUIRED TREES (405 L.F./20): 21
PROVIDED TREES: 21
* SHRUBS PROVIDED AS SHOWN ON PLAN

PERIMETER LANDSCAPE (ADJACENT STREET & OTHER PROPERTY)
- MIN. ONE (1) CANOPY TREE PER 35 L.F. OF PERIMETER
- MIN. TEN (10) 3' HT. SHRUBS PER 35 L.F. PERIMETER

REQUIRED SHRUBS & TREES (2,368 L.F./35): 677 SHRUBS & 68 TREES
PROVIDED SHRUBS & TREES: 680 SHURBS + 53 TREES + 18 EX. TREES

INTERIOR VEHICULAR PARKING AREA LANDSCAPING
- A MINIMUM OF ONE (1) CANOPY, SHADE TREE, PLUS AN ADDITIONAL ONE (1) CANOPY SHADE TREE FOR EVERY TEN (10) SPACES OR ANY PORTION THEREOF, SHALL BE REQUIRED FOR AN OFF-STREET VEHICULAR PARKING AREA
- ONE TREE IN TERMINAL ISLANDS
- AT LEAST 90 PERCENT OF THE PARKING SPACES SHALL BE WITHIN 80' FROM THE TRUNK OF A TREE

REQUIRED TREES (168 SPACES/10 + 1): 18
PROVIDED TREES: 19

PERIMETER OFF-STREET VEHICULAR PARKING AREA LANDSCAPING
- A HEDGE ROW, CONSISTING OF SHRUBS A MINIMUM HEIGHT OF 36" AND PLANTED 42" O.C., OR OTHER APPROVED SCREENING

REQUIRED SHRUBS (316 L.F./3.5): 91
PROVIDED SHRUBS: 91

BUFFERYARDS (ADJACENT LAND USES: RELIGIOUS INSTITUTION & RETAIL/COMMERCIAL)
- HEALTHCARE ABUTTING HOUSEHOLD LIVING 20+ UNITS/ACRE, MIXED USE DEVELOPMENT, ALL OTHER PUBLIC, CIVIC, AND INSTITUTIONAL: TYPE 'B' AESTHETIC (GROUND TO MIN. 20' HT.)
- LENGTH OF 'B' BUFFERYARD: 615 L.F.
- CONFIGURATION SELECTION: OPTION 1, MIN. WIDTH = 25'
- PLANTINGS PER 100 L.F. OF BUFFERYARD: 3 CANOPY TREES + 12 SHRUBS; LENGTH OF BUFFER = 615 L.F.

REQUIRED SHRUBS & TREES (6.15 MULTIPLIER): 74 SHRUBS & 19 TREES
PROVIDED SHRUBS & TREES: 74 SHRUBS & 23 TREES

NOTES:
1. CREDIT FOR EX. VEGETATION: EXISTING VEGETATION LOCATED WITHIN TEN FEET OF A REQUIRED BUFFERYARD THAT MEETS THE SIZE STANDARDS OF TABLE 5.3.4.B.4.D-1., MAY BE PRESERVED & CREDITED TOWARD THE PERIMETER BUFFERYARD STANDARDS PROVIDED IT IS RETAINED DURING AND AFTER THE DEVELOPMENT PROCESS.

2. CREDIT FOR REQUIRED LANDSCAPING: REQUIRED LANDSCAPING ASSOCIATED WITH PERIMETER LANDSCAPING AROUND AN OFF-STREET VEHICULAR PARKING AREA MAY BE CREDITED TOWARDS THE BUFFERYARD REQUIREMENTS.

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	DETAIL	REMARKS
MAG BRK	8	Magnolia grandiflora 'Brackens Brown Beauty' / Bracken's Beauty Southern Magnolia	12` Ht.	65 Gal.		Symmetrical form, Dense foliage
MAG JIM	18	Magnolia virginiana 'Jim Wilson' / Moonglow® Sweetbay Magnolia	3" Cal.	B&B		Well branched, standard (single trunk)
PIN ELL	28	Pinus elliottii / Slash Pine	2" Cal.	30 Gal.		Dense foliage, symmetrical, straight trunk
QUE BRE	32	Quercus nuttallii `Ochlocknee` / Breezeway® Nuttall Oak	---			
TAX DIS	21	Taxodium distichum / Bald Cypress	2.5" Cal.	45 Gal.		Well branched, limb up 4' ht., symmetrical form
ULM FL3	17	Ulmus americana floridana / Florida Elm	---			

SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	DETAIL	REMARKS
CAM GAS	164	Camellia sasanqua 'Shishi Gashira' / Shishi Gashira Camellia	7 gal.	Pot		
ILE CRS	48	Ilex cornuta 'Carissa' / Carissa Chinese Holly	3 gal.	Pot		
ILE NAN	246	Ilex vomitoria 'Nana' / Dwarf Yaupon Holly	3 gal.	Pot		
MUH PI4	461	Muhlenbergia capillaris 'Pink Cloud' / Pink Cloud Pink Muhly Grass	3 gal.	Pot		
POD PRI	66	Podocarpus macrophyllus 'Pringles' / Pringles Dwarf Yew Podocarpus	7 gal.	Pot		
ROS ADR	148	Rosa x 'Meimirrote' / Apricot Drift® Rose	3 gal.	Pot		
SAB MIN	69	Sabal minor / Dwarf Palmetto	7 gal.	Pot		
TRI DAC	186	Tripsacum dactyloides nana / Dwarf Fakahatchee Grass	3 gal.	Pot		

GROUND COVERS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING	DETAIL	REMARKS
LIR MUS	1,219	Liriope muscari / Lilyturf	1 gal.	Pot	12" o.c.		
RHO DWA	173	Rhoeo discolor 'Dwarf' / Dwarf Oyster Plant	2 gal.	Pot	18" o.c.		

0 10 20 30 60
GRAPHIC SCALE

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7112 CROSSROADS BOULEVARD
SUITE 201
BRENTWOOD, TN 37027
(615) 575-1795
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REGISTERED LANDSCAPE ARCHITECT
WESLEY L. WILKERSON
LA 0001729
STATE OF FLORIDA
5/24/23

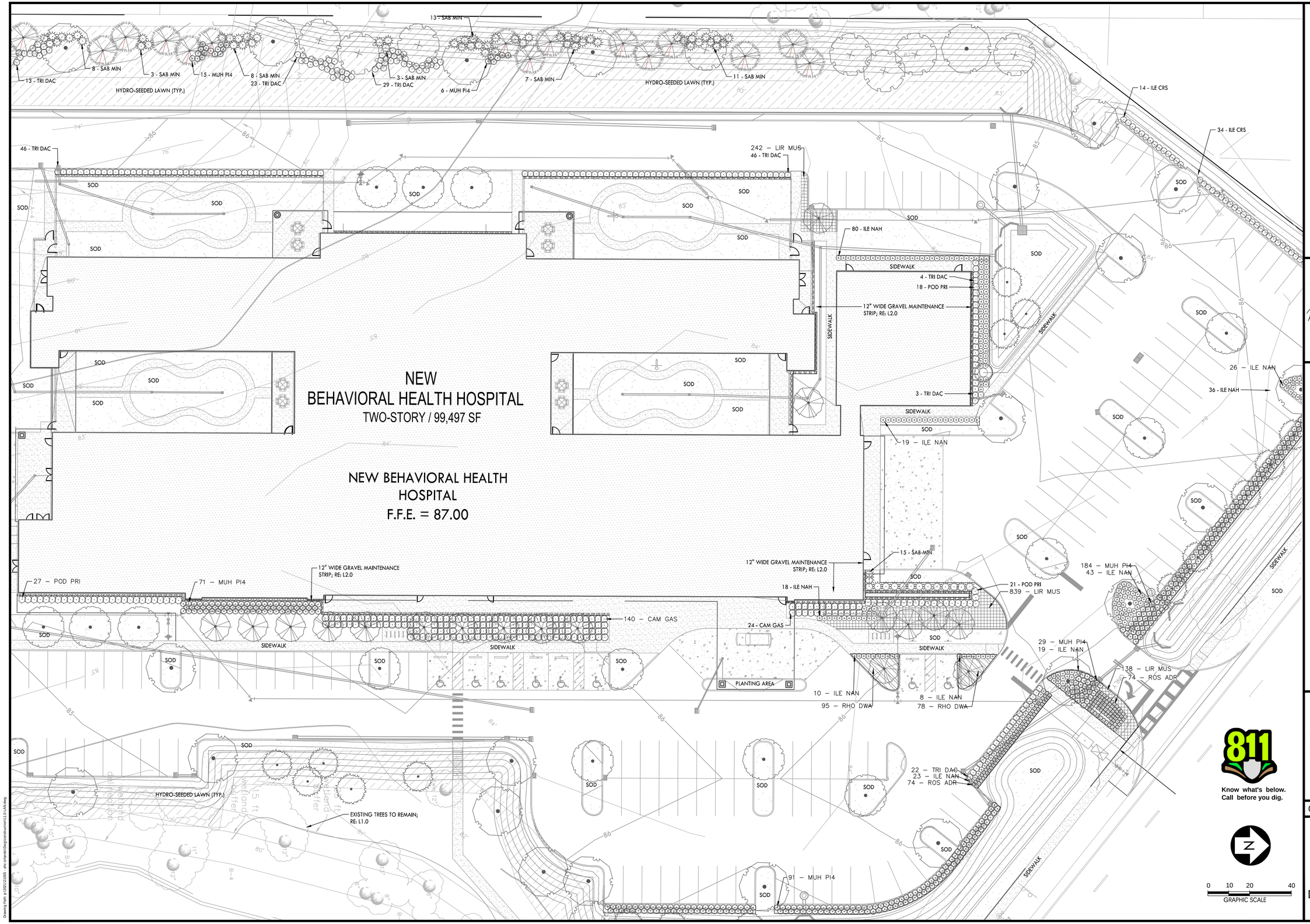
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L1.1
OVERALL PLANTING PLAN

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STATE OF FLORIDA
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L1.2
DETAILED PLANTING PLAN

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GENERAL LANDSCAPE NOTES:

1. GRASS OR GROUNDCOVER SHALL BE PLANTED ON ALL PORTIONS OF THE LANDSCAPE BUFFER AREA (LBA) NOT OCCUPIED BY OTHER LANDSCAPE MATERIAL.
2. THE GROUND PLANE OF ALL INTERIOR LANDSCAPE AREAS SHALL BE PLANTED USING EITHER SHRUBS, GROUNDCOVER, OR TURF.
3. EXISTING TREES AND PLANT MATERIAL ARE BEING USED TO MEET LANDSCAPE CODE REQUIREMENTS. IF ANY TREES OR SCREENING VEGETATION DIE OR ARE REMOVED THEY WILL BE REPLACED AS PER THE LANDSCAPE CODE REQUIREMENTS.
4. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO PERPETUALLY MAINTAIN ALL LANDSCAPE AREAS AND ASSOCIATED PLANT MATERIAL REQUIRED UNDER LAND DEVELOPMENT CODE REGULATIONS. THE PROPERTY OWNER SHALL ALSO BE RESPONSIBLE FOR MAINTAINING ASSOCIATED VEGETATION AND DRAINAGE SYSTEM WITHIN THE STORMWATER BASINS.
5. ALL UNHEALTHY OR DEAD PLANT MATERIAL SHALL BE REPLACED WITHIN ONE YEAR, OR BY THE NEXT PLANTING PERIOD, WHICHEVER COMES FIRST, WHILE OTHER DEFECTIVE PLANT MATERIAL SHALL BE REPLACED OR REPAIRED WITHIN THREE (3) MONTHS.
6. ALL PLANT MATERIAL LOCATED WITHIN A UTILITY EASEMENT THAT IS DAMAGED OR REMOVED DUE TO WORK REQUIRED BY THE UTILITY COMPANY SHALL BE IMMEDIATELY REPLACED BY THE OWNER IN ACCORDANCE WITH LAND DEVELOPMENT CODE CHAPTER 10 REQUIREMENTS.
7. STREET TREES SHALL BE PLANTED IN A MANNER THAT DOES NOT AFFECT PUBLIC SAFETY AND MAINTAINS PROPER SIGHT DISTANCES.
8. ALL SERVICE STRUCTURES SHALL BE SCREENED IN ACCORDANCE WITH LOCAL ZONING ORDINACE/GOVERNING AGENCY. SERVICE STRUCTURES INCLUDE BUT ARE NOT LIMITED TO: PROPANE TANKS, DUMPSTERS, HVAC UNITS, ELECTRIC TRANSFORMERS, TELECOM BOXES, ETC.
9. CONTRACTOR SHALL COORDINATE ANY UTILITY, SIDEWALK, OR GRADE CHANGES WITH LANDSCAPE ARCHITECT PRIOR TO BED PREPARATION, IRRIGATION, OR PLANTING INSTALLATION.
10. IRRIGATION WILL BE PROVIDED ON A DESIGN-BUILD BASIS. THIS IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE ADEQUATE WATERING OF THE PROPOSED PLANT MATERIAL AND LAWN AREAS. THE SYSTEM SHALL CONSIST OF SEVERAL WATERING ZONES CONTROLLED BY A CENTRAL TIMER WITH EITHER POP-UP AND ROTATING IRRIGATION HEADS OR A DRIP LINE SYSTEM. THE PROPOSED SYSTEM SHALL BE INSTALLED PRIOR TO PLANTING. (IF APPLICABLE)
11. AN AUTHORIZED INSPECTOR OR LOCAL AGENCY OFFICIAL SHALL HAVE THE RIGHT TO ENTER ONTO ANY PROPERTY TO INSPECT THE HEALTH AND GENERAL CONDITION OF PLANT MATERIAL THAT IS; LOCATED IN THE RIGHT OF WAY; PART OF AN APPROVED DEVELOPMENT/LANDSCAPE PLAN; OR REPORTED AS A PUBLIC HAZARD.
12. LANDSCAPE ARCHITECT SHALL INSPECT AND CERTIFY THAT ALL REQUIRED LANDSCAPING, INCLUDING SCREEN FENCING, HAS BEEN INSTALLED OR PLANTED AS SHOWN ON THE APPROVED LANDSCAPE PLAN.
13. LANDSCAPE PLANTINGS MUST BE INSTALLED PRIOR TO OCCUPANCY OF THE SITE OR AT THE NEXT AVAILABLE PLANTING SEASON. THESE PLANTINGS ARE TO BE MAINTAINED THEREAFTER.

PLANT MAINTENANCE

1. THE LANDSCAPE CONTRACTOR SHALL PROVIDE OWNER WITH WRITTEN INSTRUCTIONS ON THE PROPER CARE OF ALL SPECIFIED PLANT MATERIALS PRIOR TO FINAL PAYMENT.
2. CONTRACTOR TO WARRANTY ALL MATERIAL FOR 2 YEARS AFTER DATE OF FINAL ACCEPTANCE.
3. ALL UNHEALTHY OR DEAD PLANT MATERIAL SHALL BE REPLACED WITHIN ONE YEAR, OR BY THE NEXT PLANTING PERIOD, WHICHEVER COMES FIRST. OTHER DEFECTIVE PLANT MATERIAL SHALL BE REPLACED OR REPAIRED WITHIN THREE (3) MONTHS.

MULCHING

1. ALL PLANTING BEDS OR MULCH BEDS SHALL HAVE WEEDS REMOVED PRIOR TO THE INSTALLATION OF MULCH.
2. ALL PLANTING BEDS SHALL HAVE A MINIMUM OF 3" DEPTH OF AGED SHREDDED HARDWOOD BARK MULCH OR A MINIMUM OF 4" DEEP PINE STRAW MULCH.
3. CONTRACTORS SHALL PROVIDE SMOOTH, NEATLY TRENCHED (3 INCH DEEP) BED EDGES.
4. MULCH SHALL NOT CONTACT OUTER BARK AT BASE OF TREES. PULL BACK MULCH 3-4" FROM TRUNK.

PLANT MATERIALS

1. THE LANDSCAPE CONTRACTORS SHALL VERIFY ALL MATERIAL QUANTITIES. IN THE EVENT OF A DISCREPANCY, THE QUANTITIES SHOWN ON THE PLAN WILL TAKE PRECEDENCE.
2. ALL PLANT MATERIALS TO BE NURSERY GROWN AND TO COMPLY WITH THE AMERICAN STANDARDS FOR NURSERY STOCK: ANSI - LATEST EDITION FOR SIZE AND QUALITY.
3. ALL PLANT MATERIAL SHALL BE A MINIMUM OF 'FLORIDA NUMBER ONE' AS DEFINED IN THE MOST CURRENT EDITION OF THE GRADES AND STANDARDS FOR NURSERY PLANTS, PART I AND II, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. PLANTS THAT ARE INFERIOR OR DAMAGED WILL NOT BE ACCEPTED.
4. THE PLANTS DELIVERED TO THE PROJECT SITE SHALL BE PLANTED AS SOON AS SITE CONDITIONS PERMIT. TAKE CARE IN SCHEDULING PLANT DELIVERIES AND THE SIZE OF DELIVERIES SO THAT LONG PERIODS OF STORAGE ARE AVOIDED. ADEQUATELY PROTECT PLANTS PLACED IN TEMPORARY STORAGE FROM THE SUN AND WIND. WATER PLANTS SO AS TO MAINTAIN THEIR APPEARANCE AND HEALTH. PLANTS THAT HAVE NOT BEEN PROPERLY MAINTAINED DURING TEMPORARY STORAGE MAY BE REJECTED BY THE LANDSCAPE ARCHITECT.
5. ALL TREES SHALL BE FIRST QUALITY REPRESENTATIVES OF THEIR SPECIES AND SHALL MEET ALL REQUIREMENTS OTHERWISE STIPULATED. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT PLANTED MATERIAL IN THE FIELD, AT THE GROWING SITE OR ON THE JOB SITE.

GENERAL TREE PRESERVATION/PROTECTION NOTES

1. Construction fencing shall be erected when off-site trees or tree canopy exists within 3' of a common property line. Construction fencing shall be erected at the edge of the limits if disturbance area, prior to any grading or construction activities - preventing compaction of existing root systems of trees to be preserved and off- site trees. The fencing shall enclose the entire area beneath the drip line of the tree canopy and shall remain in place until all construction is completed. No parking, material storage or construction activities are permitted within the protected area.
2. Construction fencing shall be elected at the edge of the limits of disturbance area, prior to any grading or construction activities. The fencing shall in place until all construction is completed. No parking, material storage, or construction activities shall be permitted within the fenced area.
3. Construction fencing shall to erected prior to any grading or construction activities – preventing compaction of root systems of trees to be preserved. The fencing shall enclose the area beneath the dripline of the tree canopy and shall remain in place until all construction is completed. No parking, material storage, or construction activities shall be permitted within the fenced area.
4. Prior to site disturbance or construction activities a site inspection by staff or designee shall be scheduled to confirm and verify the Tree Preservation/ Protection Fencing and Signage is installed and correctly placed.
5. The contractor shall post signage on the Tree Preservation/ Protection Fencing and Construction Fencing identifying the enclosed area as Tree Preservation/ Protection Area. The signs shall include the following text: STAY OUT TREE PRESERVATION / PROTECTION AREA "NO equipment, materials, or vehicles shall be stored or placed within the area enclosed by this 'Tree Preservation/Protection' Fence. This fence may not be removed without the approval of the local agency at completion of project. Failure to comply will result in fines and tree mitigation. Report non-compliance to local authorities or landscape architect.
6. The Tree Preservation/ Protection Area signage shall be posted every 50 feet along the Tree Preservation Fence. The signs shall be a minimum size of 8" X 10" and weather resistant. If the signs are damaged or faded, they shall be replaced within 10 working days or 2 weeks.
7. The original stamped copy of the approved Tree Preservation Plan shall be present on site during all clearing, grading and construction activity and shall be made available to any inspector or enforcement officer upon request.
8. An authorized inspector shall have the right to enter onto any property to inspect the health and general condition of plant material that is; located in the right of way; part of an approved development/landscape plan; or reported as a public hazard.

LANDSCAPE NOTES:

SITE PREPARATION

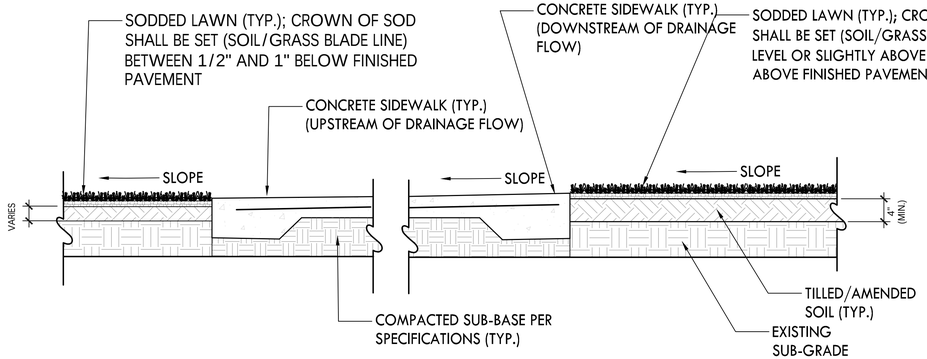
1. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND TAKE PRECAUTIONS TO PREVENT DAMAGE TO THESE UTILITIES.
2. THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGES TO UTILITIES.
3. PLANT MATERIALS AND STUMPS INDICATED FOR REMOVAL SHALL BE REMOVED AND DISPOSED OFF-SITE BY THE CONTRACTOR. BACKFILL HOLES WITH QUALITY TOPSOIL FREE OF ROOTS AND ROCKS. SEE TOPSOIL SPECIFICATION.
4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINE GRADING OF ALL PLANTING AREAS.
5. ALL CONTRACTORS APPLYING CHEMICALS ON SITE SHALL SUBMIT COPIES OF CERTIFICATION(S) AND LICENSES TO THE LANDSCAPE ARCHITECT.
6. PLANTING BEDS SHALL BE CLEARED OF GRASS AND WEEDS PRIOR TO INSTALLATION OF PLANTS.
7. SOD ALL AREAS DISTURBED BY CONSTRUCTION AND NOT DESIGNATED AS GROUND COVER AREAS.

TOPSOIL

1. ALL PLANTED AREAS TO HAVE A MINIMUM OF 6" OF QUALITY TOPSOIL.
2. ALL COMPACTED AREAS TO BE AERATED AND AMENDED AS NEEDED.
3. TOPSOIL IS TO BE NATURAL, FERTILE, FRIABLE, PRODUCTIVE SOIL, NEITHER EXCESSIVELY ACID NOR ALKALINE, AND FREE FROM TOXIC SUBSTANCES, STONES WEEDS, CLAY, CLODS, ROOTS, CINDERS, DEBRIS, AND CONSTRUCTION MATERIAL.

PLANTING

1. ALL PLANTING BEDS OR MULCH BEDS SHALL BE FREE OF WEEDS PRIOR TO THE INSTALLATION OF MULCH..
2. THE OPTIMUM TIME OF PLANTING IS FROM OCTOBER 1 TO APRIL 1. SCHEDULING FOR PLANTING AT OTHER TIMES MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT. CONTRACTOR TO ACCOUNT FOR TEMPORARY WATERING AS PART OF THEIR BID FOR ANY PLANTING INSTALLED DURING PERIODS OF HIGH TEMPERATURES.
3. UPON SECURING PLANT MATERIAL AND BEFORE INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT FOR A PRE-INSTALLATION INSPECTION IN ORDER TO VERIFY ALL PLANT MATERIAL MEETS SPECIFICATIONS. TREES OF SAME SPECIES ARE TO BE MATCHED IN GROWTH CHARACTER AND UNIFORMITY.
4. PLANTS SHALL BE ORIENTED FOR BEST APPEARANCE AND VERTICAL. ALL NON-BIODEGRADABLE ROOT CONTAINERS SHALL BE REMOVED.
5. AFTER PLANTING, TREE BRANCHES SHALL BE SELECTIVELY TRIMMED BY 25%, MAINTAINING NATURAL SHAPE. ALL DEAD AND BROKEN BRANCHES IN TREES AND SHRUBS SHALL ALSO BE PRUNED. REMOVE TAGS, TWINE, OR OTHER NON-BIODEGRADABLE MATERIAL.
6. WATERING: ALL TREES AND SHRUBS SHALL BE THOROUGHLY WATERED WITHIN ONE HOUR OF INSTALLATION.



1 PAVEMENT/LAWN TRANSITION (NO CURB)

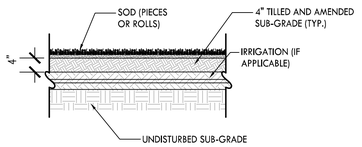
NOT TO SCALE

NOTES:
CONTRACTOR SHALL OBTAIN A SOIL ANALYSIS FROM AN INDEPENDENT LABORATORY APPROVED BY THE STATE DEPARTMENT OF AGRICULTURE. ANY RECOMMENDED AMENDMENTS SHALL BE INCORPORATED INTO PREPARATION.

CONTRACTOR SHALL LOOSEN THE TOP FOUR (4") INCHES OF SOIL IN AREAS TO RECEIVE LAWN. REMOVE ALL DEBRIS, STICKS, ROOTS, RUBBISH, CLUMPS OF SOIL, STONES OVER ONE (1) INCH IN DIAMETER, AND ALL OTHER EXTRANEOUS MATTER PRIOR TO FINE GRADING FOR SOD AREAS AS PER SPECIFICATIONS.

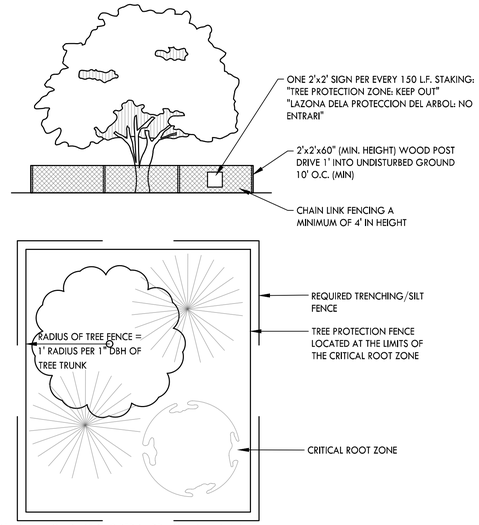
LAY SOD WITH TIGHTLY FITTED JOINTS; ELIMINATING AIR POCKETS AND FORMING A SMOOTH CONTINUOUS MASS OF LAWN.

REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION THAT ARE PART OF THE CONTRACT DOCUMENTS.



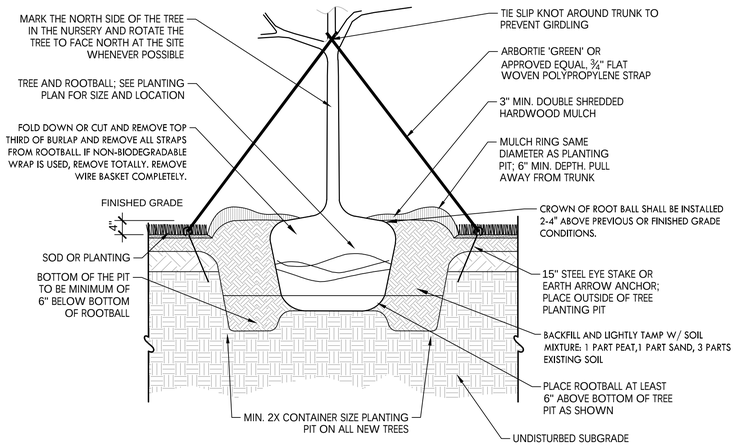
2 LAWN

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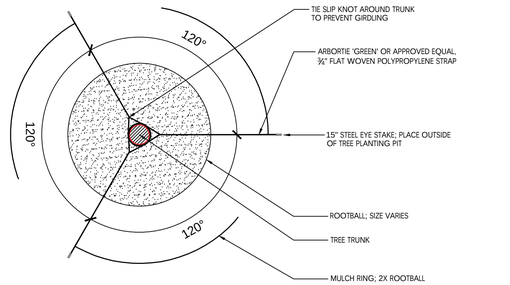
3 TREE PROTECTION

NOT TO SCALE



4 TREE PLANTING

NOT TO SCALE



5 TREE STAKING

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REGISTERED LANDSCAPE ARCHITECT WESLEY L. WILKERSON LA 0001729 STATE OF FLORIDA
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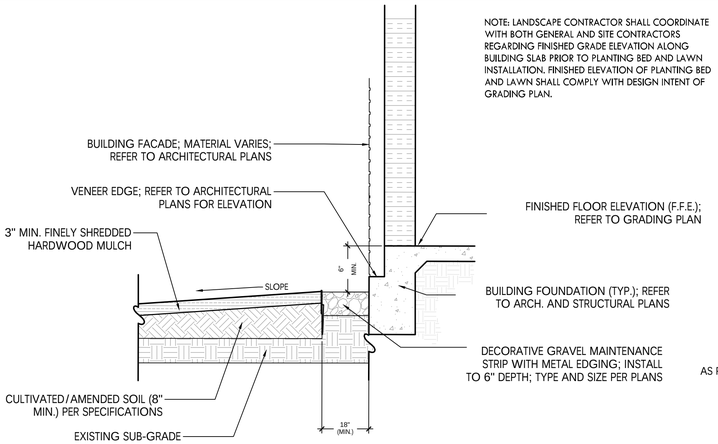
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L2.0
PLANTING DETAILS

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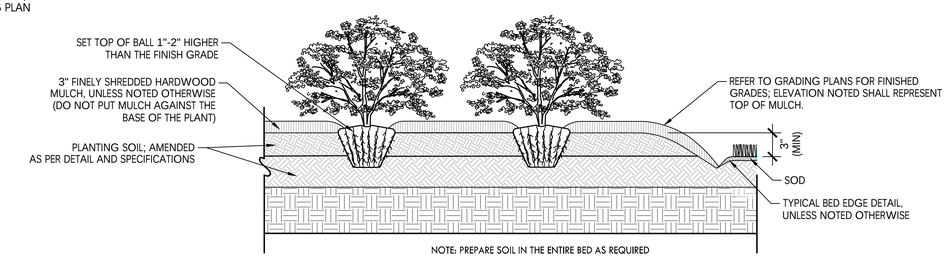


1 GRAVEL/PLANTING BED AT BUILDING FOUNDATION

NOT TO SCALE

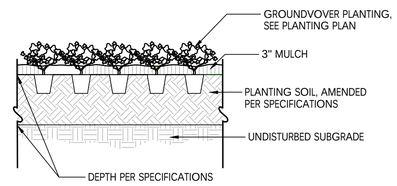
NOTES:

1. WHERE SHRUBS APPEAR IN BED AREA, 3" OF MULCH SHALL BE SPREAD UNIFORMLY OVER THE ENTIRE AREA WITHIN THE BED AS INDICATED ON THE PLANS.
2. DO NOT PRUNE SHRUBS BEFORE ACCEPTANCE. REVIEW DESIGN INTENT FOR APPEARANCE WITH LANDSCAPE ARCHITECT IN FIELD.
3. CAREFULLY REMOVE CONTAINER FROM ROOT BALL USED FOR SHRUB(S). ANY BROKEN OR CRUMBLING ROOT BALL(S) SHOULD AND WILL BE REJECTED.
4. IF SHRUB IS B&B, REMOVE BURLAP FROM TOP $\frac{1}{3}$ OF ROOT BALL OR COMPLETELY REMOVE BURLAP AS LONG AS ROOT BALL IS NOT BROKEN OR CRUMBLE.
5. SCARIFY ROOT BALL IF ROOT BOUND IN CONTAINER PER HORTICULTURE STANDARDS.
6. FOR CONTAINTER GROWN SHRUBS, SCARIFY THE ROOTS FROM THE OUTER LAYER OF POTTING SOIL VIA MANUALLY OR SMALL HAND TOOLS; THEN CUT OR PULL APART ANY ROOTS THAT CIRCLE THE PERIMETER OF THE CONTAINER. 12" TO 18" FOR LARGER SHRUB ROOT BALLS, MAKE WIDTH MIN. 6" DEEPER THAN BALL



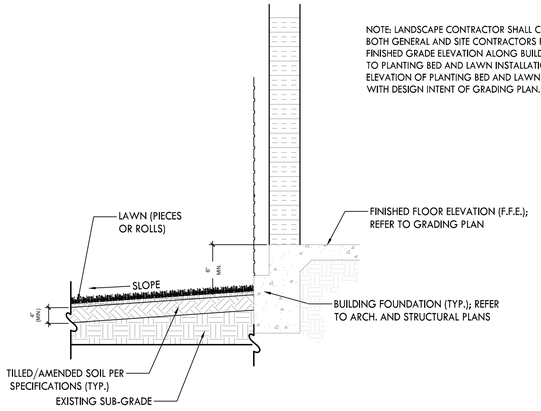
2 SHURB PLANTING

NOT TO SCALE



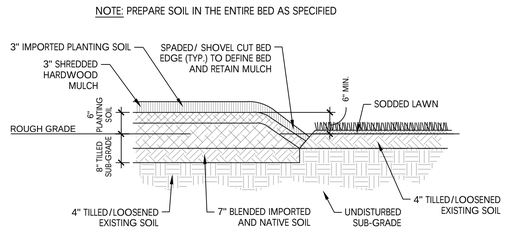
3 GROUNDCOVER PLANTING

NOT TO SCALE



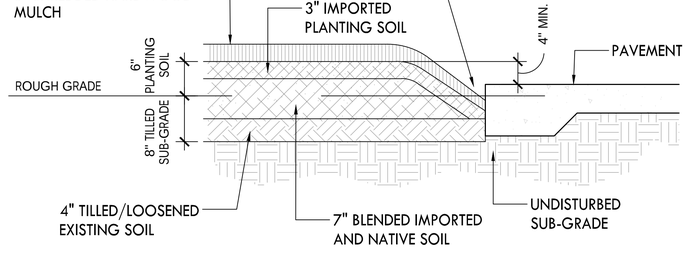
4 LAWN AT BUILDING FOUNDATION

NOT TO SCALE



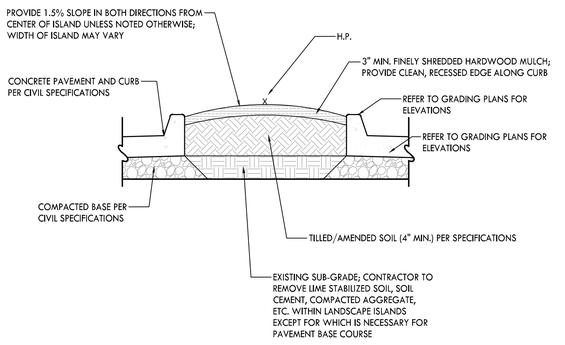
5 BED PREPARATION

NOT TO SCALE



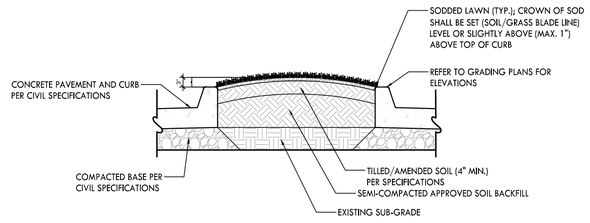
6 BED PREPARATION AT PAVEMENT

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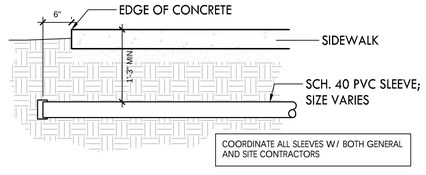
7 INTERIOR PARKING ISLAND (PLANTING)

NOT TO SCALE



8 INTERIOR PARKING ISLAND (LAWN)

NOT TO SCALE



9 SLEEVE UNDER PAVEMENT

NOT TO SCALE

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REGISTERED LANDSCAPE ARCHITECT
WESLEY L. WILKERSON
LA 0001729
STATE OF FLORIDA
3/2/23

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ORLANDO HEALTH JV
APOPKA, FLORIDA

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PLANTING DETAILS

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FINAL CONSTRUCTION PLANS
for
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

PARCEL ID
Parcel 1 12-21-27-0000-00-011
Parcel 2 12-21-27-0000-00-012
Parcel 3 12-21-27-0000-00-013
Parcel 4 12-21-27-0000-00-007
Parcel 5 12-21-27-0000-00-008

DEVELOPER:
BPG APOPKA PROPERTIES, LLC.
1540 GENESSEE STREET,
KANSAS CITY, MO. 64102
CONTACT: ERIC WYANCKO
PHONE: 913-333-9196
EMAIL: ERIC.WYANCKO@BLUESCOPEPROPERTIES.COM

ENGINEER:
DAVE SCHMITT ENGINEERING, INC.
12301 LAKE UNDERHILL ROAD, SUITE 241
ORLANDO, FL 32828
CONTACT: DAVE SCHMITT, P.E.
PHONE: 407 207-9088
EMAIL: DSEMAILBOX@DSEORL.COM

SURVEYOR:
LEADING EDGE LAND SERVICES INCORPORATED
8802 EXCHANGE DRIVE
ORLANDO, FLORIDA. 32809
CONTACT: MIKE BAERHOLD
PHONE: 407 351-6730
EMAIL: MBAERHOLD@LEADINGEDGELS.COM

ENVIRONMENTAL:
BIO-TECH
3025 EAST SOUTH STREET,
ORLANDO, FL 32803
CONTACT: BILL KEENAN, DANIEL COUGH
PHONE: 407-894-5969,
EMAIL: DANNY@BIOTECHCONSULTING.COM

GEOTECHNICAL:
ANDREYEV ENGINEERING, INC.
4055 ST. JOHN'S PARKWAY
SANFORD, FL 32771
CONTACT: MARK JUNG
PHONE: 407 330-7763
EMAIL: MJUNG@ANDREYEVENGINEERING.COM

LANDSCAPING:
BORELLI + PARTNERS.
720 VASSAR STREET
ORLANDO, FL 32804
CONTACT: CHRIS RICE
PHONE: 407-218-1342
EMAIL: CRICE@BORRELLIARCHITECTS.COM

Legal Description:

A PARCEL OF LAND LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA, BEING ALL OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 8062, PG. 1216, OFFICIAL RECORDS BOOK 10135, PAGE 9149, OFFICIAL RECORDS BOOK 9177, PAGE 2436, AND A PORTION OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 4572, PAGE 90, ALL BEING OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF TRACT F, MID-FLORIDA LOGISTICS PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK, 99, PAGES 34-43, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, ALSO BEING THE WESTERLY RIGHT-OF-WAY LINE OF STATE ROAD 429 (WESTERN BELTWAY) LIMITED ACCESS RIGHT-OF-WAY; THENCE ALONG SAID WESTERLY RIGHT-OF-WAY LINE OF STATE ROAD 429 (WESTERN BELTWAY) THE FOLLOWING NINE (9) COURSES: 1) S15°56'44"W, A DISTANCE OF 76.95 FEET; 2) S13°06'26"W, A DISTANCE OF 95.81 FEET; 3) S09°55'40"W, A DISTANCE OF 260.16 FEET; 4) S89°55'49"W, A DISTANCE OF 521.35 FEET; 5) S00°11'42"W, A DISTANCE OF 466.60 FEET; 6) N89°55'49"E, A DISTANCE OF 489.17 FEET; 7) S07°25'10"E, A DISTANCE OF 313.50 FEET; 8) S17°09'05"E, A DISTANCE OF 106.11 FEET; 9) SOUTH EASTERLY ALONG THE ARC OF A NON-TANGENT CURVE TO THE LEFT (SAID CURVE HAVING A RADIUS OF 5156.00 FEET, A CENTRAL ANGLE OF 07°30'56" AND A CHORD BEARING AND DISTANCE OF S08°24'37"E, 675.83 FEET) FOR AN ARC DISTANCE OF 676.31 FEET TO THE SOUTH LINE OF THE NORTHEAST 1/4 OF SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST; THENCE DEPARTING SAID WESTERLY RIGHT-OF-WAY LINE OF STATE ROAD 429 (WESTERN BELTWAY), ALONG SAID SOUTH LINE OF THE NORTHEAST 1/4 OF SECTION 12, S89°50'36"W, A DISTANCE OF 1729.14 FEET; THENCE DEPARTING SAID SOUTH LINE OF THE NORTHEAST 1/4 OF SECTION 12, N00°25'23"E, A DISTANCE OF 657.98 FEET TO THE SOUTH LINE OF TRACT C OF SAID MID-FLORIDA LOGISTICS PARK; THENCE ALONG THE SOUTH LINE OF SAID TRACT C N89°53'17"E, A DISTANCE OF 81.30 FEET TO THE SOUTHEAST CORNER OF SAID TRACT C; THENCE DEPARTING SAID SOUTH LINE OF TRACT C, ALONG THE EAST LINE OF SAID TRACT C, N00°26'44"E, A DISTANCE OF 1316.95 FEET TO THE NORTHEASTERLY CORNER OF SAID TRACT C, ALSO BEING THE SOUTH LINE OF LOT 5 OF SAID MID-FLORIDA LOGISTICS PARK; THENCE DEPARTING SAID EAST LINE OF TRACT C, ALONG SAID SOUTH LINE OF LOT 5 N89°58'26"E, A DISTANCE OF 1583.60 FEET TO THE POINT OF BEGINNING.

CONTAINING 65.303 ACRES (2844610 SQUARE FEET) OF LAND, MORE OR LESS.

ALSO A CFX PARCEL LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST ORANGE COUNTY, FLORIDA.
CONTAINING 5.412 ACRES (235752 SQUARE FEET) OF LAND, MORE OR LESS.

WATER / SEWER SERVICE:
CITY OF APOPKA
748 EAST CLEVELAND STREET
APOPKA, FL 32703
CONTACT: JORGE GARCIA
PHONE: 407 703-1731

ELECTRIC SERVICE:
DUKE ENERGY
PO BOX 14042
ST. PETERSBURG, FL 33733
CONTACT: CHRISTINA POSHARD
PHONE: 407 464-1229

GAS SERVICE:
LAKE APOPKA NATURAL GAS DISTRICT
38 NORTH LAKE PARK AVENUE
APOPKA FL, 32703
CONTACT: EVERETT HOLMES
PHONE: 407 410-7024

TELEPHONE AND CABLE SERVICE:
CENTURYLINK
100 CENTURYLINK DRIVE
MONROE, LA 71203
CONTACT: HARY TOLEDO
PHONE: 833 283-4773

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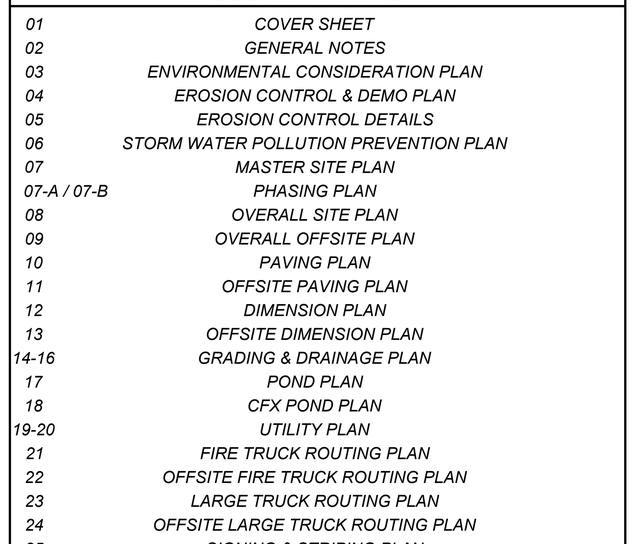
PREPARED FOR:
BPG APOPKA PROPERTIES

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
						07/14/2023	DM	REV. PER CITY COMMENTS

THIS IS TO CERTIFY THAT THE ROADWAY CONSTRUCTION PLANS AND SPECIFICATIONS AS CONTAINED HEREIN WERE DESIGNED TO APPLICABLE STANDARDS AS SET FORTH IN THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" AS PREPARED BY FLORIDA DEPARTMENT OF TRANSPORTATION

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SITE LOCATION
SCALE 1:2000

DAVE SCHMITT ENGINEERING, INC.
12301 LAKE UNDERHILL ROAD SUITE 241
ORLANDO, FLORIDA 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274
Digitally signed by Dave M Schmitt
Date: 2023.08.25 11:56:35 -04'00'

DATE: APRIL 2023 | JOB NO.: ANC-7 | SHEET: 01 OF 33

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1. ALL CONSTRUCTION SHALL CONFORM WITH CITY OF APOPKA ENGINEERING STANDARDS MANUAL, 2016 F.D.O.T. STANDARDS FOR ROAD & BRIDGE CONSTRUCTION, AND THE CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE CITY OF APOPKA UTILITY SYSTEM SHALL BE IN CONFORMANCE WITH THE CITY OF APOPKA STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL APRIL 2011.

2. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN EXISTING ROAD RIGHTS-OF-WAY WITH CITY OF APOPKA ENGINEER

3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN-HAND BEFORE BEGINNING CONSTRUCTION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL INSPECTION CRITERIA AND SCHEDULES, AND FOR SIGNING SAID INSPECTIONS.

5. NO DEFLECTION OR BENDING IS ALLOWED IN PVC PIPE THAT WILL BE OWNED AND MAINTAINED BY CITY OF APOPKA. ALIGNMENT CHANGE SHALL BE MADE ONLY WITH FITTINGS. LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND FOR NOTIFYING THE VARIOUS UTILITY PROVIDERS TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, TEMPORARY DISRUPTION OF SERVICE, OR CLARIFICATION OF ACTIVITY REGARDING SAID UTILITY. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY PROVIDERS AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY PROVIDER DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

7. THE LOCATION OF ALL EXISTING UTILITIES, STORM DRAINAGE SYSTEMS AND TOPOGRAPHIC FEATURES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. SHOULD A DISCREPANCY ARISE BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, WHICH WOULD APPRECIABLY AFFECT THE EXECUTION OF THESE PLANS, THE CONTRACTOR WILL HALT ALL CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY.

8. DUKE ENERGY WILL INSTALL, REGULATE AND MAINTAIN THE PROPOSED POWER DISTRIBUTION SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH DUKE ENERGY TO INSURE PROPER CONSTRUCTION PHASING, ELIMINATE CONFLICTS IN THE WORK, AND AVOID UNNECESSARY DELAYS.

9. THE LOCAL TELEPHONE COMPANY WILL INSTALL, REGULATE AND MAINTAIN THE PROPOSED COMMUNICATION DISTRIBUTION SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH SAID PROVIDER TO INSURE PROPER CONSTRUCTION PHASING, ELIMINATE CONFLICTS AND AVOID UNNECESSARY DELAYS.

10. ALL WORK AND MATERIALS FURNISHED SHALL BE IN REASONABLE CONFORMITY WITH THE LINES, GRADES, GRADING SECTIONS, CROSS SECTIONS, DIMENSIONS, MATERIAL REQUIREMENTS, AND TESTING REQUIREMENTS THAT ARE SPECIFIED IN THE CONTRACT, PLANS OR SPECIFICATIONS.

11. THE CONTRACTOR SHALL CONTROL HIS OPERATIONS AND THOSE OF HIS SUBCONTRACTORS, AND ALL SUPPLIERS TO ASSURE THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THE CONTRACTOR SHALL MAINTAIN FREE AND UNOBSTRUCTED MOVEMENT OF VEHICULAR TRAFFIC AND SHALL LIMIT HIS OPERATIONS FOR THE SAFETY AND CONVENIENCE OF THE TRAVELING PUBLIC. UNDER ALL CIRCUMSTANCES, SAFETY SHALL BE THE MOST IMPORTANT CONSIDERATION.

12. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL BARRICADES, WARNING SIGNS, AND MARKINGS FOR HAZARDS AND THE CONTROL OF TRAFFIC, IN REASONABLE CONFORMITY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS OR AS DIRECTED BY CITY OF APOPKA TRAFFIC ENGINEER, SUCH AS TO EFFECTIVELY PREVENT ACCIDENTS IN ALL PLACES WHERE THE WORK CAUSES OBSTRUCTIONS TO THE NORMAL TRAFFIC OR CONSTITUTES IN ANY WAY A HAZARD TO THE PUBLIC.

13. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT.

14. THE CONTRACTOR SHALL COMPLY WITH ALL LOAD RESTRICTIONS IN THE HAULING OF MATERIALS IN PUBLIC ROADS BEYOND THE LIMITS OF THE WORK. A SPECIAL PERMIT WILL NOT RELIEVE THE CONTRACTOR OF LIABILITY FOR THE DAMAGE WHICH MAY RESULT FROM THE MOVING OF MATERIAL AND EQUIPMENT.

15. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE POLICIES AND GUIDELINES ESTABLISHED BY CITY OF APOPKA FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO PROPERTY OF ANY CHARACTER, DURING THE EXECUTION OF THE WORK, RESULTING FROM ANY OMISSION, NEGLECT, OR MISCONDUCT IN HIS MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANYTIME DUE TO DEFECTIVE WORK OR MATERIALS.

16. THE CONTRACTOR SHALL INSURE THAT PROPER SOIL DENSITIES ARE ACHIEVED FOR PLACEMENT OF ALL HEADWALL/ENDWALL FOOTINGS, RETAINING WALLS, AND IN GENERAL, ANY FOOTING SUPPORT DESCRIBED ON THESE PLANS. IT WILL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SUFFICIENT SOILS TESTING HAS BEEN PERFORMED PRIOR TO CONSTRUCTION.

17. THE CONTRACTOR SHALL COMPLY WITH CITY OF APOPKA STANDARDS AND SPECIFICATIONS FOR STRIPPING, CLEARING, GRUBBING, GRADING, BACKFILLING, AND EMBANKMENT PREPARATION WITHIN ALL DESIGNED ROADWAY RIGHT-OF-WAY SECTIONS.

18. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE GEOTECHNICAL ENGINEER'S REPORT FOR THIS PROJECT FROM DAVE SCHMITT ENGINEERING, INC. AND MEET THE GEOTECHNICAL ENGINEER'S REQUIREMENTS FOR SOIL PREPARATION ON THE SITE.

19. AFTER THE ROADWAY HAS BEEN CONSTRUCTED TO SUBGRADE, IT SHALL BE PROOF-ROLLED TO ASSURE THAT PROPER COMPACTION HAS BEEN ATTAINED. THE PROOF-ROLLING AND COMPACTION OPERATIONS SHALL BE INSPECTED AND TESTED BY A FLORIDA LICENSED GEOTECHNICAL ENGINEER TO ASSURE THAT THE SPECIFIED COMPACTION IS MAINTAINED AND THAT ALL DELETERIOUS MATERIALS HAVE BEEN REMOVED.

20. COMPACT THE TOP 24 INCHES OF UTILITY TRENCHES WITHIN ROADWAYS TO 98% OF THE MODIFIED PROCTOR DENSITY; WITHIN OTHER AREAS TO 95%.

21. IN OTHER AREAS WHICH REQUIRE FILL MATERIAL THE CONTRACTOR WILL STRIP OR OTHERWISE REMOVE ALL VEGETATION SUCH AS BRUSH, HEAVY SODS, HEAVY GROWTH OF GRASS, DECAYED VEGETABLE MATTER, RUBBISH AND ANY OTHER DELETERIOUS MATERIAL BEFORE EMBANKMENT IS STARTED. IMMEDIATELY PRIOR TO THE PLACEMENT OF FILL MATERIALS, THE ENTIRE AREA UPON WHICH FILL IS TO PLACED, SHALL BE SCARIFIED IN A DIRECTION APPROXIMATELY PARALLEL TO THE AXIS OF FILL. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE AREA PRIOR TO THE PLACEMENT OF FILL.

22. DURING CONSTRUCTION, NO DIRECT DISCHARGE OF WATER TO DOWNSTREAM RECEIVING WATERS WILL BE ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER QUALITY, AND SHALL ROUTE DISCHARGE WATER IN SUCH A MANNER TO ADEQUATELY REMOVE SILT PRIOR TO RUNOFF FROM SITE.

23. RECORD DRAWINGS: AT THE END OF CONSTRUCTION, THE CONTRACTOR WILL PROVIDE ONE SET OF DRAWINGS SHOWING ALL CHANGES MARKED IN WATERPROOF RED WITH THE FOLLOWING CONTRACTOR CERTIFICATION EXECUTED ON EACH SHEET: THE CONTRACTOR: _____ HEREBY CERTIFIES TO THE OWNER THAT IMPROVEMENTS COVERED BY THIS DRAWING AND ALL RELATED DETAILS HAVE BEEN CONSTRUCTED AS INDICATED OR AS MODIFIED BY THE NOTES AND GRAPHICS SHOWN. ABSENT A NOTE OR GRAPHIC TO THE CONTRARY, THE IMPROVEMENTS HAVE BEEN CONSTRUCTED MEETING INDUSTRY STANDARD TOLERANCES.
SIGNED:_____DATE:_____
AUTHORIZED CONTRACTOR'S REPRESENTATIVE

24. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

25. ALL SIDEWALKS, RAMPS, AND CROSSWALKS WILL BE DESIGNED AND BUILT TO MEET ADA REQUIREMENTS.

26. MISCELLANEOUS ENGINEER NOTIFICATIONS

A. THE CONTRACTOR SHALL PROVIDE THE ENGINEER 24 HOUR ADVANCE NOTIFICATION FOR THE FOLLOWING CONSTRUCTION AND OBSERVATION ACTIVITIES.

a. SANITARY SEWER VIDEO INSPECTION.

b. CONNECTIONS TO EXISTING SYSTEMS

c. THRUST BLOCK POURS AND RESTRAINT CONNECTIONS

d. STORM DRAINAGE LAMPING

e. INLET TOP POURS (REINFORCING STEEL CHECK)

f. WATER & FORCE MAIN PRESSURE TESTS

g. BACTERIOLOGICAL SAMPLING

h. BASE OBSERVATION & SOUNDING

i. ASPHALT PLACEMENT

j. PRE-FINAL INSPECTION

k. FINAL INSPECTION

B. THE CONTRACTOR SHALL KEEP DAILY "AS-BUILT" DRAWINGS AND MAKE THEM READILY ACCESSIBLE.

C. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A PROJECT CONSTRUCTION SCHEDULE (BAR GRAPH) AND UPDATE SAID SCHEDULE ON A MONTHLY BASIS.

D. ALL FUEL STORAGE AREAS SHALL HAVE THE PROPERTY OWNER'S PRIOR APPROVAL AND APPROPRIATE MEASURES SHALL BE TAKEN TO INSURE PROTECTION OF GROUNDWATER AND SOIL RESOURCES.

E. THE CONTRACTOR SHALL COORDINATE ALL BACKFILL OPERATIONS WITH THE PROJECT GEOTECHNICAL ENGINEER AND SUBMIT TEST REPORTS TO THE ENGINEER PRIOR TO BEGINNING WORK ON THE NEXT ITEM OF WORK, I.E. SUBGRADE PRIOR TO CURB.

F. THE ENGINEER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER, RETEST AND OR PERFORM ANY ACTION NECESSARY TO ENSURE THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

WATER

26. THE FOLLOWING UTILITY PROVIDER IS LISTED FOR THE CONVENIENCE TO THE CONTRACTOR.

WATER:

CITY OF APOPKA UTILITIES
748 EAST CLEVELAND STREET
APOPKA, FLORIDA 32703

CITY OF APOPKA UTILITIES WILL MAINTAIN THE PROPOSED POTABLE WATER SYSTEM WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND DOING ALL OF THE WORK IN ACCORDANCE WITH THE LATEST CITY OF APOPKA UTILITIES SPECIFICATIONS AND STANDARDS.

27. ALL WATER MAIN FITTINGS, VALVES, RESTRAINTS, COUPLINGS, PIPE, AND IN GENERAL ALL MATERIALS REQUIRED FOR INSTALLING THE WATER SUPPLY SYSTEM, THAT CONNECT TO THE OCPU SYSTEM SHALL CONFORM TO CITY OF APOPKA MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER AND WATER MAIN CONSTRUCTION.

28. LOCATING TAPE CAPABLE OF REGISTERING ON A METAL LOCATOR SHALL BE INSTALLED DIRECTLY ABOVE THE PIPE CENTERLINE AND BURIED TO A MINIMUM DEPTH OF SIX (6) INCHES AND MAXIMUM DEPTH OF TWELVE (12) INCHES FOR ALL PROPOSED PRESSURE SYSTEMS. THE TAPE SHALL BE LAID CONTINUOUSLY WITHOUT GAPS BETWEEN ENDS OVER ALL INSTALLED PIPING. THE TAPE SHALL HAVE THE WORD "CAUTION" AND THE LINE IDENTIFICATION, SUCH AS, "CAUTION, WATER LINE BURIED BELOW", PRINTED CONTINUOUSLY ALONG ITS LENGTH. THE TAPE SHALL BE COLOR CODED BLUE ACCORDING TO CITY OF APOPKA UTILITIES STANDARDS. FULL RANGE MARKERS SHALL ALSO BE USED.

29. WATER AND UTILITY CROSSINGS:

UTILITY SEPARATION-VERTICAL CLEARANCE

A. WHERE WATER MAINS CROSS A GRAVITY SANITARY SEWER OR STORM SEWER MAIN, A VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) OF AT LEAST SIX INCHES, AND PREFERABLY TWELVE INCHES, ABOVE OR AT LEAST TWELVE INCHES BELOW MUST BE MAINTAINED. WHEREVER POSSIBLE, THE WATER MAIN SHALL BE LAID ABOVE THE OTHER PIPE.

B. WHERE WATER MAINS CROSS A SANITARY FORCE MAIN OR RECLAIMED WATER MAIN, A VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) OF AT LEAST 12 INCHES MUST BE MAINTAINED. WHEREVER POSSIBLE, THE WATER MAIN SHALL BE LAID ABOVE THE OTHER PIPE.

C. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ON THE OTHER PIPELINE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE JOINTS OF THE OTHER PIPE.

UTILITY SEPARATION-HORIZONTAL SEPARATION

D. WHEN WATER MAINS PARALLEL A GRAVITY SEWER MAIN, SANITARY FORCE MAIN, OR RECLAIMED WATER MAIN NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., A SEPARATION (MEASURED OUTSIDE TO OUTSIDE) OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, MUST BE MAINTAINED. THE MINIMUM SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY SANITARY SEWERS SHALL BE THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SANITARY SEWER PIPE.

E. WHERE WATER MAINS PARALLEL A STORM SEWER PIPE OR RECLAIMED WATER MAIN REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. A MINIMUM OF 3 FEET HORIZONTAL SEPARATION (MEASURED OUTSIDE TO OUTSIDE) MUST BE MAINTAINED.

F. NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY MANHOLE OR STORM SEWER INLET OR MANHOLE.

G. FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM THE A STORM SEWER OR RECLAIMED WATER MAIN REGULATED BY PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM A GRAVITY SANITARY SEWER, SANITARY FORCE MAIN OR RECLAIMED WATER MAIN NOT REGULATED BY PART III OF CHAPTER 62-610, F.A.C.

H. THE WATER MAIN PIPE SHALL BE LAID SUCH THAT THE JOINTS ARE STAGGERED AS FAR AS POSSIBLE FROM THE JOINTS OF THE OTHER PIPE.

29. WHERE DUCTILE IRON PIPE IS REQUIRED FOR WATER MAINS, IT SHALL CONFORM TO ANSI/AWWA A21.51,A MINIMUM THICKNESS OF CLASS 50 PER ANSI/AWWA SHALL BE SUPPLIED. DIP PIPE MUST BE IN CONFORMANCE WITH AWWA C150 AND C151.

30. TESTING: THE CONTRACTOR TO TEST ALL WATER MAINS AS PER THE FOLLOWING: HYDROSTATIC TEST PER AWWA-C600 (OR M23) STANDARD, AND DISINFECTION OF WATER MAIN PER AWWA-C651.

31. WATER MAINS SHALL COMPLY WITH AWWA STANDARDS. ALL WATER MAINS WITHIN THE RIGHT-OF-WAY AND EASEMENTS SHALL BE OWNED AND MAINTAINED BY CITY OF APOPKA UTILITIES. ALL 4" DIAMETER THRU 12" DIAMETER PVC WATER MAINS SHALL BE AWWA C900-DR18. ALL WATER MAINS LESS THAN 4 INCHES IN DIAMETER SHALL BE IN ACCORDANCE WITH ASTM 2241 SDR21 CLASS 200. PIPE SIZES 16" THRU 36" SHALL BE IN ACCORDANCE WITH AWWA C-905.52 ALL WATER MAINS SHALL BEAR THE NSF LOGO INDICATING APPROVAL FOR DRINKING WATER AND SHALL BE COLOR COSED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM OTHER WATER LINES.

32. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER ALL PROPOSED WATER, WASTEWATER AND RECLAIMED WATER LINES.

33. ALL FIRE HYDRANTS SHALL BE POSITIONED NO MORE THAN 5 FEET FROM THE CURB.

34. A BACKFLOW DEVICE (I.E. JUMPER CONNECTION) IS REQUIRED AT ALL ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.

35. FIRE PROTECTION SHALL BE IN ACCORDANCE WITH SECTION 9.3.3 OF THE SUBDIVISION REGULATIONS AND ORDINANCE #81.19.

SEWER

36. THE FOLLOWING UTILITY PROVIDER IS LISTED FOR THE CONVENIENCE TO THE CONTRACTOR.

SEWER:

CITY OF APOPKA UTILITIES
748 EAST CLEVELAND STREET
APOPKA, FLORIDA 32703

37. UNDERGROUND GRAVITY SEWER PIPING WHICH IS NOT MANUFACTURED OF METAL OR CONCRETE PIPE SHALL BE COLOR CODED GREEN USING LIGHT STABLE COLORANTS. UNDERGROUND METAL PIPE SHALL BE COLOR CODED OR MARKED USING GREEN AS A PREDOMINANT COLOR.

38. ALL PROPOSED SANITARY LINES (EITHER GRAVITY OR PRESSURES SYSTEMS), FITTINGS, VALVES, RESTRAINTS, COUPLINGS, PIPES, AND IN GENERAL, THOSE MATERIALS REQUIRED FOR INSTALLING THE WASTEWATER DISPOSAL SYSTEM SHALL CONFORM TO CITY OF APOPKA UTILITIES WATER AND WASTEWATER DIVISION.

39. ALL GRAVITY SEWER LINES SHALL BE A MINIMUM OF 3' FROM THE CURB AT ALL LOCATIONS.

40. RECLAIMED WATER LINES, IF PROPOSED ON THESE PLANS, MAY BE EITHER PVC C900 DR25 OR DUCTILE IRON CLASS 200.

41. UNDERGROUND RECLAIMED WATER PIPING WHICH IS NOT MANUFACTURED OF METAL OR CONCRETE PIPE SHALL BE COLOR CODED PANTONE PURPLE 522C USING LIGHT STABLE COLORANTS. UNDERGROUND METAL AND CONCRETE PIPE SHALL BE COLOR CODED OR MARKED USING PURPLE AS A PREDOMINANT COLOR.

STORMWATER/EROSION CONTROL

42. THE STORMWATER SYSTEM FOR THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH APPLICABLE RULES AND DESIGN STANDARDS OF THE WATER MANAGEMENT DISTRICT OR REGULATORY AGENCY WITH THE MOST STRINGENT DESIGN STANDARDS, AS REQUIRED BY THE SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT AND CITY OF APOPKA, FLORIDA.

43. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE BUFFERS, RETENTION AND DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE OWNER. ALL DISRUPTED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.

44. ALL REINFORCED CONCRETE PIPE (R.C.P.) SHALL BE MINIMUM CLASS III. ALL HDPE WILL BE SMOOTH INTERIOR AND SHALL MEET OR EXCEED STANDARDS OF ASTMD 3350 CELL CLASSIFICATION 345464C.

45. ALL PRECAST DRAINAGE STRUCTURES TO HAVE STEEL ANGLE IRON FRAME. ALL STRUCTURES IN PAVED AREAS TO HAVE STEEL RECTILINEAR GRATES WITH H-20 LOADING.

46. THE CONTRACTOR SHALL PERFORM EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF APOPKA STANDARDS, DETAILS CONTAINED IN THE PLANS, THE FOLLOWING NOTES, AND AS DIRECTED BY THE ENGINEER.

A. TEMPORARY EROSION CONTROL

a. STOCKPILING MATERIAL: NO EXCAVATING MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATERBODY OR STORMWATER COLLECTION FACILITY.

b. INLET PROTECTION: INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATERBODY OR STORMWATER COLLECTION FACILITY.

c. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPA- TED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED, AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POUNDS PER ACRE.

d. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN NOTE C ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA TO A DEPTH OF 4 INCHES.

e. TEMPORARY GRASSING: THE SEEDED OR THE SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.

f. TEMPORARY REGRASSING: IF, AFTER FOURTEEN DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER.

g. THE CONTRACTOR SHALL PLACE HAY BALES AROUND ALL EXISTING AND NEWLY CONSTRUCTED INLETS TO CONTROL EROSION DURING CONSTRUCTION.

h. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

B. PERMANENT EROSION CONTROL

THE EROSION CONTROL FACILITIES FOR THE PROJECT SHALL BE DESIGNED TO MINIMIZE THE IMPACT ON OFF-SITE FACILITIES. ALL STORMWATER DISCHARGE FROM THE PROJECT LIMITS SHALL BE ROUTED THROUGH DETENTION BASINS TO TRAP SUSPENDED SEDIMENTS AND DISCHARGE FACILITIES FROM THESE BASINS SHALL BE PROVIDED WITH A SKIMMER DEVICE TO TRAP FLOATABLE DEBRIS.

a. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY THE CONSTRUCTION WILL, AS A MINIMUM, BE FERTILIZED AND SEEDED. THE FERTILIZER SHALL BE OF 12-8-8 PROPORTIONS AND SHALL BE UNIFORMLY SPREAD AT A RATE OF 400-500 POUNDS PER ACRE AND MIXED WITH THE SOIL TO A UNIFORM DEPTH OF FOUR INCHES. INCLUDED WITH THE FERTILIZING OPERATION, WILL BE THE APPLICATION OF AMENDMENTS, IF NECESSARY, SUCH AS DOMOMITIC LIMESTONE OR ALUMINUM SULFATE TO CORRECT THE PH FACTOR TO WITHIN THE LIMITS OF 6.0-7.0. THE GRASS SEED SHALL BE UNIFORMLY SPREAD AT THE RATE OF 100 POUNDS PER ACRE WHILE THE SOIL IS MOIST. THE GRASS SEED MIXTURE SHALL BE OF 20 PARTS BERMUDA AND 80 PARTS BAHIA, WITH THE ADDITION OF 30 PARTS RYE IN THE WINTER SEASON.

b. PERMANENT SEEDING AND MULCHING: IN ADDITION TO THE MINIMUM REQUIREMENTS OF NOTE 1. ABOVE, SLOPES OF 6:1 TO 4:1 INCLUSIVE WILL BE MULCHED WITH A UNIFORM THICKNESS OF APPROXIMATELY TWO INCHES, LOOSE MEASURE, OF MULCH MATERIAL INCORPORATED INTO THE SOIL BY MIXING TO A DEPTH OF FOUR INCHES.

c. PERMANENT SODDING: ALL RETENTION/DETENTION BASINS SHALL BE SODDED WITHIN THEIR LIMITS. ALL EXPOSED AREAS WITHIN PUBLIC RIGHT-OF-WAYS WILL BE SOLID SODDED. OTHER AREAS WITH SLOPES STEEPER THAN 4:1 WILL BE SODDED.

d. STRIP SODDING: STRIP SOD SHALL BE PLACED ADJACENT TO ALL CURBS, WALKS AND PAVEMENTS.

e. REGRASSING: ALL GRASSED AREAS WILL BE MAINTAINED TO ASSURE A GOOD STAND AND SUFFICIENT GROUND COVER TO MINIMIZE EROSION. IF, AFTER 60 DAYS AN ADEQUATE GROUND COVER HAS NOT BEEN ESTABLISHED, THE AREA WILL BE REGRASSED.

f. ADDITIONAL FERTILIZATION: GRASSED AREAS NOT ACCEPTED WITHIN 90 DAYS OF THEIR COMPLETION SHALL BE FERTILIZED AT AN APPLICATION RATE OF 250 POUNDS PER ACRE.

47. ALL PUBLIC STORM DRAINAGE PIPES MUST BE WRAPPED AT THE JOINT WITH FILTER FABRIC.

48. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL RETENTION AND DETENTION FACILITIES AND ALL LANDSCAPE BUFFERS, THROUGH THE DURATION OF THE PROJECT, AND UNTIL THE WORK IS ACCEPTED BY THE OWNER. ALL DISRUPTED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.

49. ROADWAY AND DRAINAGE DESIGN PER CURRENT CITY OF APOPKA AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.

50. UTILITY (SEWER AND WATER) DESIGN PER CURRENT CITY OF APOPKA UTILITIES STANDARDS AND SPECIFICATIONS.

51. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO CITY OF APOPKA AND OBTAIN PLAN APPROVAL PRIOR TO CONSTRUCTION.

52. AIR RELEASE VALVES SHALL BE REQUIRED AT ALL HIGH POINTS ON PROPOSED FORCEMAINS, RECLAIMED WATER MAINS AND POTABLE WATER MAINS.

53. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.

54. THE UTILITIES DISPATCH OPERATOR SHALL BE NOTIFIED BY THE CONTRACTOR FOR PIPE EMERGENCIES.

55. UTILITIES ENGINEERING AND CONSTRUCTION DIVISION: 407-703-1731.

56. ALL EXISTING WATER, FORCE, GRAVITY AND RECLAIMED WATER MAINS AND OTHER FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.

57. CONTRACTOR SHALL ADJUST VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, ETC IN CONFLICT WITH ROADWAY.

58. THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO UTILITIES' MAINS AND FACILITIES. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY UTILITIES, UTILITIES MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.

59. UTILITIES CONSTRUCTION DIVISION SHALL BE NOTIFIED AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF ANY UTILITIES.

60. ONLY UTILITIES SHALL OPERATE WATER, WASTEWATER, AND RECLAIMED WATER VALVES. COORDINATE VALVE OPERATION WITH APPROPRIATE UTILITIES INSPECTOR.

61. THE CONTRACTOR SHALL COORDINATE ALL PUMP STATION OPERATION AND SHUT DOWN CONTROL WITH A UTILITIES INSPECTOR. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING OF WASTEWATER DURING THE INTERRUPTION OF FLOWS AND CONNECTIONS WITH EXISTING WASTEWATER SYSTEMS.

62. ALL NEW VALVES BEING INSTALLED SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT ANY PROPOSED WATER MAIN TO ANY EXISTING WATER MAIN UNLESS CLEARED BY FDEP AND UTILITIES.

63. THE UTILITY IMPROVEMENTS AND ADJUSTMENTS SHOWN ON THESE PLANS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE CITY OF APOPKA WATER, WASTEWATER AND RECLAIMED WATER SYSTEMS. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANUAL. THE PLANS DO NOT INCLUDE WORK PERFORMED ON OR FOR UTILITY SYSTEMS OWNED BY OTHERS UNLESS STATED OTHERWISE ON THE PLANS.

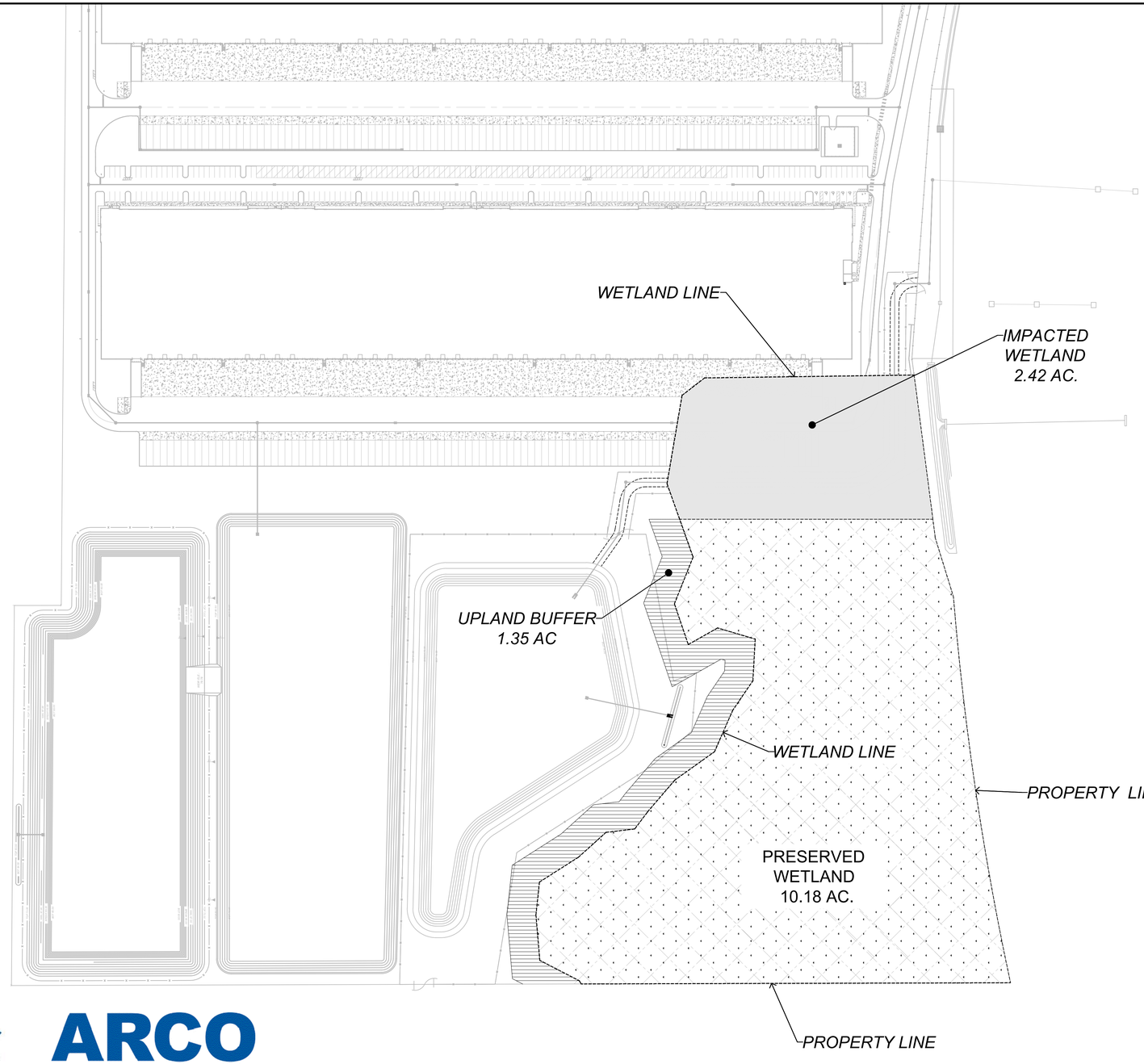
64. ALL EXISTING AND NEW CITY OF APOPKA UTILITIES VALVES, VALVE BOXES, AND MANHOLES SHALL BE PROTECTED AND ADJUSTED TO FINISHED GRADE AS SHOWN ON THE DRAWINGS. ALL EXISTING ABOVE GROUND VALVES TO BE RELOCATED, AS REQUIRED.

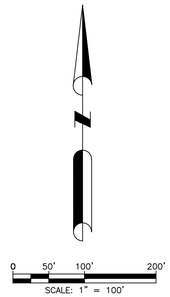
65. MAKE TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE; FLUSH OUT NEW WATER MAIN WITH POTABLE WATER (USE "JUMPER" ASSEMBLY WITH BACKFLOW PREVENTER TO MAKE TEMPORARY CONNECTIONS TO AN EXISTING WATER SOURCE).

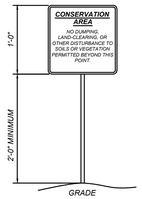
66. PRESSURE PIPE LENGTHS DO NOT INCLUDE BENDS, AIR RELEASE VALVES OR FIRE HYDRANT ASSEMBLIES.

67. THE CONTRACTOR IS RESPONSIBLE FOR MEETING THE REQUIREMENTS OF EPA AND FDEP AS IT RELATES TO THE NPDES NOTES INCLUDING THE POLLUTION DISCHARGE CONTROL.

68. AN EROSION CONTROL PLAN WILL BE APPROVED BY THE CITY ENGINEER PRIOR TO THE PRE-C







CONSERVATION AREA SIGN DETAIL
NOT TO SCALE

NOTES:

1. **MINIMUM AVERAGE 50' BUFFER HAS BEEN PROVIDED ON ALL PRESERVED WETLANDS.**
2. **CONSERVATION AREA SIGNS TO BE PLACED AT EVERY 50' ALONG THE UPLAND BUFFER LIMITS.**

LEGEND

DESCRIPTION	AREA
WETLAND PRESERVATION AREA	10.18 AC.
UPLAND BUFFER AREA	1.35 AC.
WETLAND IMPACT	2.42 AC.

BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

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407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

ENVIRONMENTAL CONSIDERATION PLAN

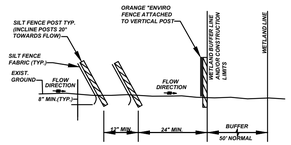
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1"=100'
SHEET: 03 OF 33

F:\ANC7\CAD\Planset\Final\3 ENVIRONMENTAL CONSIDERATIONS PLAN.dwg,7/21/2023 12:21:42 PM

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
6. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
7. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE- THIRD THE HEIGHT OF THE BARRIER.
8. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
9. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
10. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.

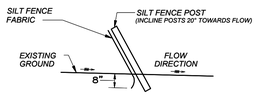
1. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
2. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
3. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
4. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
5. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
6. ALL DISTURBED AREAS TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
7. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
8. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
9. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.



FDOT APPROVED TEMPORARY SILT FENCE PRE-ASSEMBLED IN 100' ROLLS UTILIZING 2" X 2" X 4' WOODEN POSTS @ 8' C/C MAX. W/3' OF WOVEN GEOTEXTILE MATERIAL MEETING THE REQUIREMENTS OF SEC. 985-4. SIMILAR & EQUAL TO THAT SUPPLIED BY FIFEPIPE CO. OF TAMPA FLA.

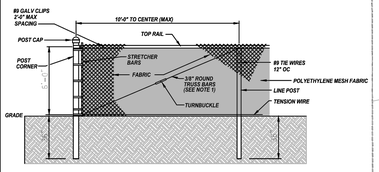
TYPICAL DOUBLE SILT FENCE DETAIL

N.T.S.



FDOT APPROVED TEMPORARY SILT FENCE PRE-ASSEMBLED IN 100' ROLLS UTILIZING 2" X 2" X 4' WOODEN POSTS @ 8' C/C MAX. W/3' OF WOVEN GEOTEXTILE MATERIAL MEETING THE REQUIREMENTS OF SEC. 985-4. SIMILAR & EQUAL TO THAT SUPPLIED BY FIFEPIPE CO. OF TAMPA FLA.

TYPICAL SINGLE ROW SILT FENCE DETAIL



DUST ABATEMENT FENCE DETAIL

PROPERTY LINE
SINGLE ROW SILT FENCE
PROPERTY LINE
SINGLE ROW SILT FENCE
PROPERTY LINE
SOIL TRACKING PREVENTION DEVICE (SEE DETAIL THIS SHEET)
10' x 10' CONCRETE WASH-OUT PIT
R1-1
STOP
BUFFER LINE
DOUBLE ROW SILT FENCE
BUFFER LINE
DOUBLE ROW SILT FENCE
PROPERTY LINE
PROPERTY LINE
WETLAND LINE
IMPACTED WETLAND
EXISTING CFX POND TO BE RELOCATED. SEE SHEET 8-MASS GRADING PLAN
PROPERTY LINE
DOUBLE ROW SILT FENCE
SINGLE ROW SILT FENCE
PROPERTY LINE
INLET SILT SOCK PROTECTION
PROPERTY LINE
SINGLE ROW SILT FENCE
SINGLE ROW SILT FENCE
PROPERTY LINE
SINGLE ROW SILT FENCE

0 50' 100' 200'
SCALE: 1" = 100'

LEGEND

- SINGLE ROW SILT FENCE
- DOUBLE ROW SILT FENCE
- TURBIDITY BARRIER

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Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

EROSION CONTROL & DEMO PLAN

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1"=100'
SHEET: 04 OF 33

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THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TRASH FROM THE SITE AND DISPOSING OF IT IN AN APPROVED MANNER.

THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION & SEDIMENT CONTROL DEVICES AFTER CONSTRUCTION IS COMPLETED AND ONLY WHEN AREAS HAVE BEEN STABILIZED.

ADDITIONAL EROSION CONTROL PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.

CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.

WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1' PAST ALL SIDES OF THE OPENING IN THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.

FOR DOP-1 COVERS, AGGREGATE SHALL BE PLACED OVER THE WIRE MESH TO A DEPTH OF AT LEAST 24 INCHES. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.

IF THE STONE FILTER COMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER FUNCTIONS AS DESIGNED, THE FILTER STONE MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.

BALES SHALL BE EITHER WIRE-BOUND OR STRING TIED. WITH THE BINDING ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.

BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.

TWO OR FOUR STAKES SHALL BE DRIVEN DEEPLY AND FIRMLY INTO THE GROUND AT EACH CORNER OF THE BALES. AT LEAST TWO STAKES SHALL BE DRIVEN THROUGH EACH BALE. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.

EXCAVATED SOILS SHALL BE REGRADED OVER AND AROUND THE BALES.

LOOSE STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FLOW BETWEEN BALES.

STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.

BALES SHALL REMAIN IN PLACE FOR NO LESS THAN 30 DAYS AND THE STRAW MAY BE SPREAD OVER THE DISTURBED AREA TO FURTHER PROTECT THE EXISTING GRADE, PREPARED AND SEEDED.

THE PROTECTION AND SEDIMENT TRAPPING MEASURES SHALL BE REPAIRED IMMEDIATELY AFTER EACH RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAIN. THEY MUST BE REMOVED BEFORE THEY HAVE REACHED ONE-HALF THE HEIGHT OF THE BARRIER

ANY REPAIRS OR REPLACEMENT REMAINING TO BE DONE AFTER THE SILT FENCE OR FILTER BARRIER IS REMOVED SHALL BE DONE IMMEDIATELY TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS AS NEEDED.

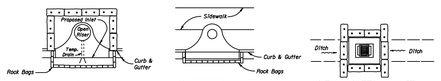
SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED TO ENSURE EFFECTIVE EROSION CONTROL FOR THE DURATION OF CONSTRUCTION. THEY SHALL BE REMOVED WHEN AREAS HAVE STABILIZED.

THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.

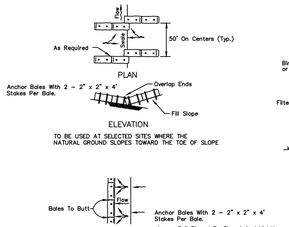
THE CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN ON-SITE ALL WATER SWPPP AND EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.

NOTE:
WHERE FDOT SPECS AND INDEX ARE REFERENCED, PLEASE REFER TO FDOT ROADWAY & TRAFFIC DESIGN STANDARDS, AND FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.



PARTIAL INLET COMPLETED INLET DITCH BOTTOM INLET

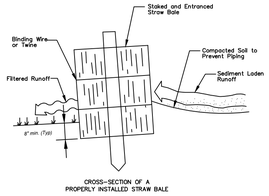
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



BARRIERS FOR FILL SLOPES

HAY BALE PLACEMENT

N.T.S.

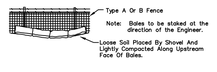


CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

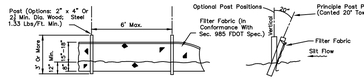
STAKED SYNTHETIC HAY BALE

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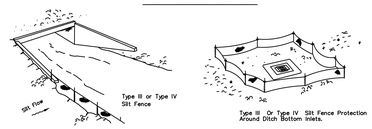
N.T.S.



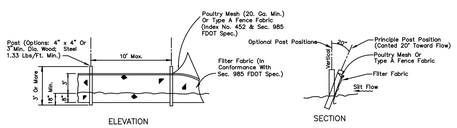
BALES BACKED BY FENCE



TYPE III SILT FENCE

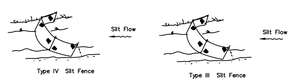


Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.



Note: Silt Fence to be paid for under the contract lump sum price for Erosion and Sediment Control.

TYPE IV SILT FENCE

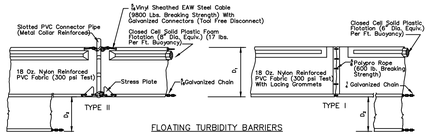


Note: Spacing for Type III & TYPE IV Fence to be in accordance with Chart 1, Sheet 1 of 3, FDOT Index No. 102 and ditch installations at drainage structures Sheet 2 of 3, FDOT Index No. 102.

SILT FENCE APPLICATIONS

SILT FENCE TYPE III & IV

N.T.S.

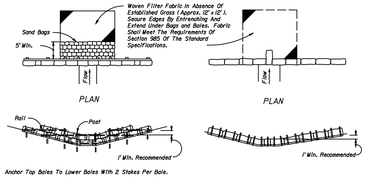


FLOATING TURBIDITY BARRIERS

NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
2. Number and spacing of anchors dependent on current velocities.
3. Deployment of barrier around pile locations may vary to accommodate construction operations.
4. Navigation may require segmenting barrier during construction operations.
5. For additional information see Section 104 of the FDOT Standard Specifications.

TURBIDITY BARRIERS

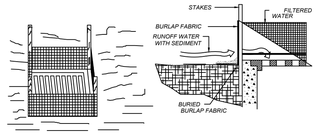
N.T.S.



BARRIER FOR UNPAVED DITCHES

SYNTHETIC HAY BALE BARRIERS TYPE I & II

N.T.S.



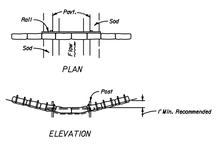
FABRIC SEDIMENT FILTER

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

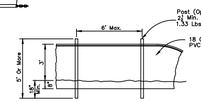
DROP INLET SEDIMENT TRAP

N.T.S.



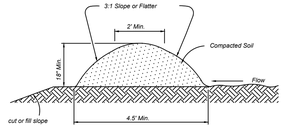
BARRIER FOR PAVED DITCH

NOTICE:
COMPONENTS OF TYPES I & TYPE II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

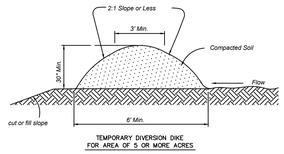


STAKED TURBIDITY BARRIER

Note:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however, payment will be under the contract lump sum price established in the bid proposal for Erosion and Sediment Control Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.



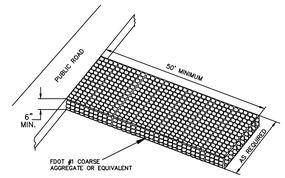
TEMPORARY DIVERSION DIKE FOR AREA OF 1 TO 5 ACRES



TEMPORARY DIVERSION DIKE FOR AREA OF 5 OR MORE ACRES

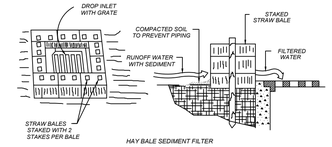
DIVERSION DIKE

N.T.S.



STABILIZED CONSTRUCTION ENTRANCE

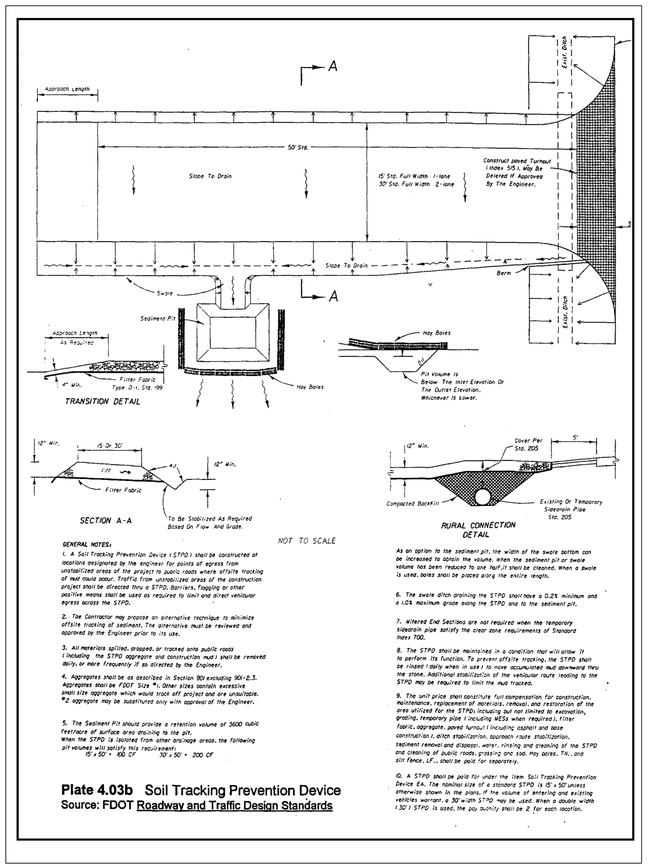
N.T.S.



HAY BALE SEDIMENT FILTER

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.



GENERAL NOTES:

1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where offsite tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging or other positive means shall be used as required to limit and direct vehicular egress across the STPD.

2. The Contractor may propose an alternative technique to minimize offsite tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.

3. All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.

4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT Size #1. Other sizes contain excessive small size aggregate which would track off project and are unsuitable. #2 aggregate may be substituted only with approval of the Engineer.

5. The Sediment Pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement.
15' x 50' = 600 CF
30' x 50' = 200 CF

6. The swale ditch draining the STPD shall have a 0.2% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.

7. Mitered End Sections are not required when the temporary sidedrain pipe satisfy the clear zone requirements of Standard Index 700.

8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent offsite tracking, the STPD shall be rinsed daily when in use (to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.

9. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD including but not limited to excavation, grading, temporary pipe (including MESs when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Hay bales, TN., and silt fence, LF., shall be paid for separately.

10. A STPD shall be paid for under the item Soil Tracking Prevention Device EA. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant, a 30'-width STPD may be used. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.

Plate 4.03b Soil Tracking Prevention Device
Source: FDOT Roadway and Traffic Design Standards

BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

DAVE SCHMITT ENGINEERING, INC.
12301 Lake Underhill Road Suite 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

EROSION CONTROL DETAILS

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: NONE
SHEET: 05 OF 33

F:\ANC7\CAD\Planset\Final\05 EROSION CONTROL DETAILS.dwg,7/21/2023 9:07:09 AM

STORM WATER POLLUTION PREVENTION PLAN

OWNER'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

OWNER NAME AND ADDRESS:
DEVELOPER:
BPG APOPKA PROPERTIES, LLC.
1540 GENESSEE STREET,
KANSAS CITY, MO. 64102
CONTACT: ERIC WYANCKO
PHONE: 913-333-9196
EMAIL: ERIC.WYANCKO@BLUESCOPEPROPERTIES.COM

DESCRIPTION:
CONSTRUCTION OF 2 INDUSTRIAL WAREHOUSE FACILITY AND AFFILIATED INFRASTRUCTURE

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING, GRUBBING, EARTHWORK, GRADING, DRAINAGE SYSTEM, UTILITY SYSTEMS, PAVING AND PREPARATION FOR FINAL PLANTING AND SEEDING.

RUNOFF CURVE NUMBERS:
1. PRE-CONSTRUCTION = SEE DRAINAGE CALCULATION NOTEBOOK
2. POST-CONSTRUCTION = SEE DRAINAGE CALCULATION NOTEBOOK

SOILS:
SEE SOIL BORING REPORT FOR SOILS DATA

SITE MAPS:
* SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.

* SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS

* SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.

SITE AREA:
1. TOTAL AREA OF SITE = 71.53 AC.

NAME OF RECEIVING WATERS:
WET POND
LATITUDE: 28°40'39.586"N
LONGITUDE: 81°33'52.758"W

DRY POND
LATITUDE: 28°40'39.745"N
LONGITUDE: 81°33'50.414"W

CFX POND:
LATITUDE: 28°40'39.745"N
LONGITUDE: 81°33'47.199"W

CONTROLS

1. ANTICIPATED START DATE OF CONSTRUCTION: 07/2023
2. ANTICIPATED END DATE OF CONSTRUCTION: 07/2024

(CONSTRUCTION DATES ARE TO BE FILLED IN PRIOR TO COMMENCEMENT OF CONSTRUCTION)

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT
STORM WATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION:) A SERIES OF PIPES AND INLETS CONVEYING RUNOFF TO THE EXISTING STORM WATER RETENTION POND FOR THE PROJECT. AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF 31.99 ACRES WILL HAVE BEEN REGRADED. THE SITE DISCHARGES TO A WET DETENTION SYSTEM. WHERE PRACTICAL, TEMPORARY SEDIMENT BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT DETENTION BASIN.

TIMING OF CONTROLS/MEASURES

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED (TO BE FILLED IN PRIOR TO COMMENCEMENT OF CONSTRUCTION).

F.D.E.P. DREDGE/FILL PERMIT # _____
UNDERGROUND PERMIT
S.F.W.M.D. M.S.S.W. PERMIT # _____
N.P.D.E.S. PERMIT # _____

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED: _____
OWNER/OPERATOR

DATED: _____

CONTRACTOR'S REQUIREMENTS

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS.

SEQUENCE OF MAJOR ACTIVITIES

THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE

2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED

3. CLEAR AND GRUB CONSTRUCTION AND SEDIMENT BASIN

4. CONSTRUCT SEDIMENTATION BASIN

5. CONTINUE CLEARING AND GRUBBING

6. STOCK PILE TOP SOIL IF REQUIRED

7. ESTABLISH FINAL PRELIMINARY GRADING

8. CONSTRUCT STORM WATER MANAGEMENT SYSTEM AS PRACTICABLE

9. INSTALL UTILITIES, STORM SEWER, CURB & GUTTER.

10. APPLY BASE TO PROJECT

11. COMPLETE GRADING AND SEEDING/SOD AND PLANTING

12. COMPLETE FINAL PAVING

13. REMOVE ACCUMULATED SEDIMENT FROM BASIN

14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, IT SHALL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.

CONTROLS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED , MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED,TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS
STABILIZATION PRACTICES

1. SYNTHETIC HAY BALE BARRIER: SYNTHETIC HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS.
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
B. IN NATURAL DRAINAGE OR OTHER LONG TERM CONCENTRATION FLOW CONDITIONS WHERE THE FLOW IS GREATER THAN 0.5 CFS.
C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
D. WHERE CONSTRUCTION IN THE STREAM CAN RESULT IN SILT WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.

2. SILT FENCE BARRIER: SILT FENCE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATION:
WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.

3. RIPRAP: RIPRAP AND FILTER FABRIC / BRUSH BARRIER MAY BE USED BELOW DISTURBED AREA SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

4. LIME STONE SCREENINGS: A LIME STONE SCREENING SPREADER MAY BE USED WHERE SEDIMENT-LADEN WATER IS DISCHARGED ONTO UNDISTURBED STABILIZED AREAS. THIS METHOD APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.

CONTROLS CONT'D.

5. STORED MATERIAL AND WASTE MUST BE PROPERLY CONTROLLED TO PREVENT IT FROM BEING WASHED OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

6. EXPOSED AREA LIMITATION: THE UNPROTECTED AREA OF OPEN EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

7. INLET PROTECTION: ALL INLETS AND CATCH BASINS WHICH RECEIVE STORM WATER RUNOFF FROM DISTURBED AREAS SHALL BE PROTECTED WITH A SEDIMENT FILTER OR OTHER APPROVED METHOD UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

8. STABILIZATION: ALL AREAS SHALL BE STABILIZED AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 3:1 SHALL BE PROTECTED WITH EROSION CONTROL FABRIC OR NETTING. 4:1 TO 3:1 SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.

10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE FERTILIZED AND WATERED AS REQUIRED BY OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.

11. TEMPORARY RESEEDING: IF, AFTER 14 DAYS FROM SEEDING, THE AREA DOES NOT HAVE A MINIMUM OF 80 PERCENT UNIFORM GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

12. MAINTENANCE: ALL SEEDING OR MULCHING SHALL BE REPAIRED AND MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

14. PERMANENT SEEDING: ALL AREAS UNDER WHICH THE FINISH GRADING IS COMPLETED SHALL BE PERMANENTLY SEEDED. SEEDING SHALL PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.

2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN EACH DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA.

DIKE: THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION

A. APRON: A LEVEL AREA OR EXCAVATED DEPRESSION WHERE FLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE POUNDING AROUND THE STRUCTURE.

B. REA: CHOICE EMBANKMENT MATERIAL IS REQUIRED AND WHERE POUNDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS.

C. THE DIKE SHALL BE USED ON GENTLE SLOPES WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.

D. INLET PROTECTION: APPLICABLE TO THE OUTLETS OF SLOPE DRAINS AND TEMPORARY DIVERSION DIKES WHERE FLOWS CAN EXCEED 0.5 CFS AND CAUSE EROSION.

E. SEDIMENT TRAPS: A SEDIMENT TRAP SHALL BE INSTALLED IN EACH DRAINAGEWAY AT EVERY STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA.

F. SEDIMENT BASINS: THE FOLLOWING SEDIMENT BASIN SHALL BE USED AT ONE TIME. THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.

NOTE:
THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS

THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN. OFFSITE VEHICLE TRACKING SHALL BE CONDUCTED DAILY OR MORE FREQUENTLY AS NEEDED.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION.

- ☐ Concrete
- ☐ Asphalt
- ☐ Oil
- ☐ Detergents
- ☐ Fertilizers
- ☐ Petroleum Based Products
- ☐ Cleaning Solvents
- ☐ Paints
- ☐ Wood
- ☐ Masonry Blocks
- ☐ Roofing Materials
- ☐ Metal Studs

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF:

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT:

* *AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.*
* *ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.*
* *PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.*
* *SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.*
* *WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.*
* *MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.*
* *THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.*

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

* *PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.*
* *ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.*
* *IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.*

SPILL PREVENTION

SPILL PREVENTION CONT'D.

PRODUCT SPECIFIC PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

ALL OVER-THE-ROAD EQUIPMENT WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

WASHING OF VEHICLES SHOULD BE CONDUCTED USING PRACTICES THAT WILL PREVENT DIRECT, UNTREATED DISCHARGES OF WASTEWATER AND HAZARDOUS WASTES TO SURFACE AND GROUND WATERS. A DESIGNATED AREA MUST BE CREATED SPECIFICALLY FOR WASHING VEHICLES THAT WILL BE LAID WITH FILTER FABRIC, CRUSHED STONE (DOT GRAVEL #2 AND UP) AND COVERED WITH LINED BERM.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL. (800) 320-0519

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* *NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.*
* *ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT. AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.*
* *ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT.*
* *BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.*
* *SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.*
* *DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.*

MAINT./INSP. PROCEDURES CONT'D.

* *INSPECTIONS SHALL BE CONDUCTED AT A MINIMUM OF EVERY 7 DAYS OR WITHIN 24 HOURS OF A 0.5" RAIN EVENT.*
* *THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.*
* *TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.*
* *A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED.*
THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.
THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
* *THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.*
* *PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.*

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

* *WATER FROM WATER LINE FLUSHING*
* *PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).*
* *UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).*

CONTRACTOR'S CERTIFICATION

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

RESPONSIBLE FOR DUTIES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR
BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS						
DATE						
SIGNATURE						

ARCO NATIONAL CONSTRUCTION

BlueScope Properties Group

DAVE SCHMITT ENGINEERING, INC.
12301 LAKE UNDERHILL ROAD
SUITE 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

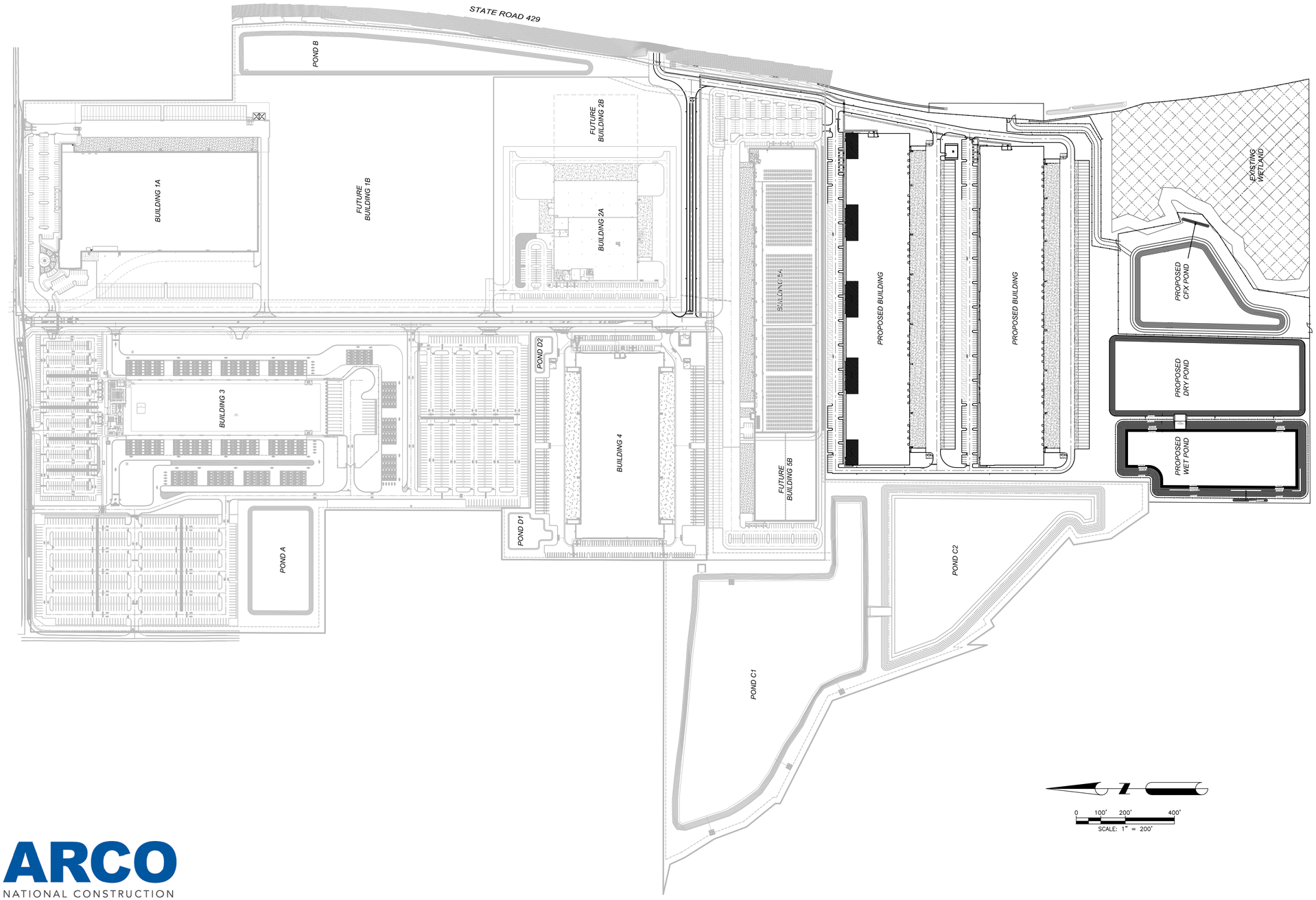
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

SWPPP
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: N/S
SHEET: 06 OF 33

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ARCO NATIONAL CONSTRUCTION

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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MASTER SITE PLAN

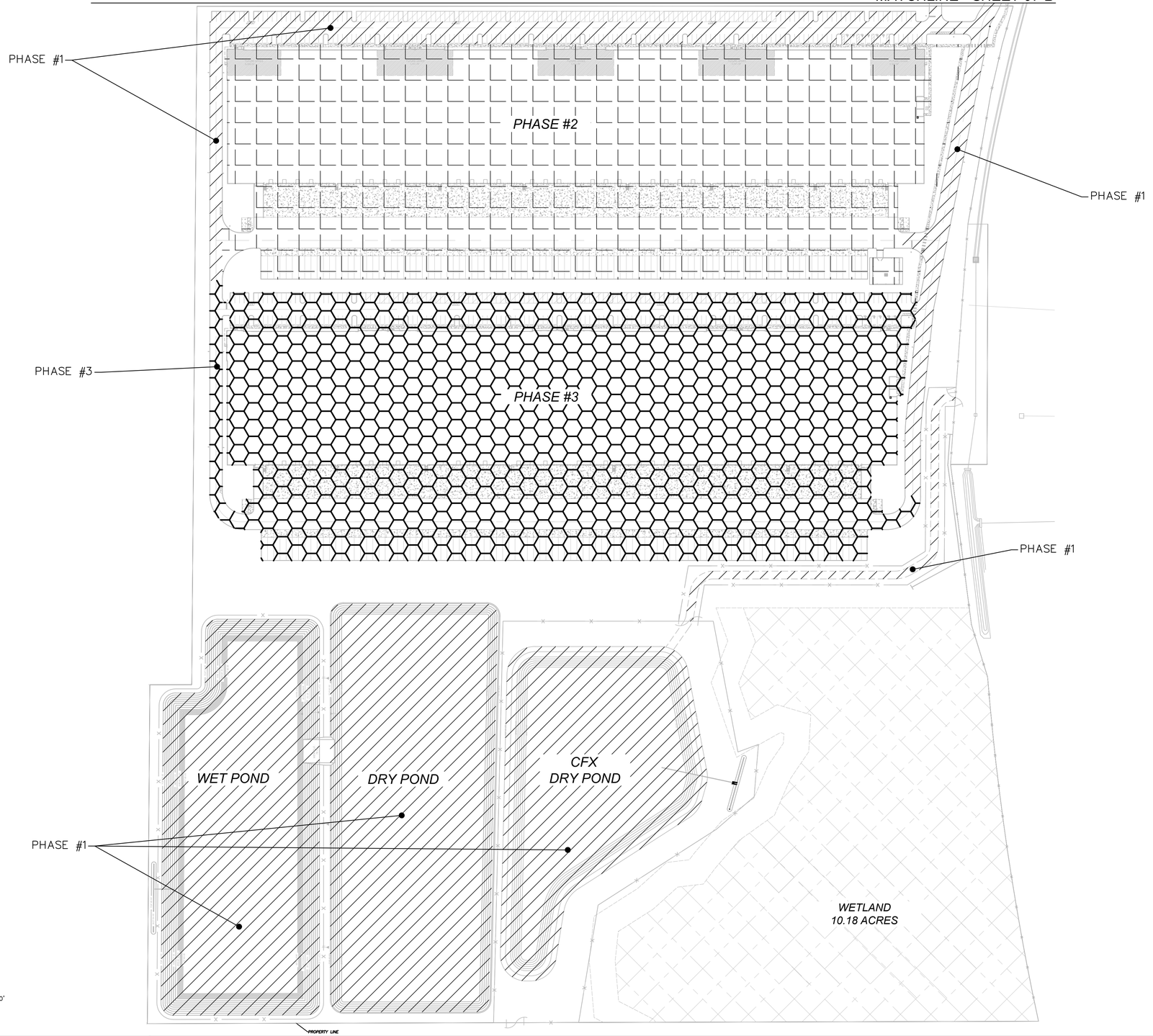
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 200'
SHEET: 07 OF 33

MATCHLINE - SHEET 07-B

LEGEND

DESCRIPTION	PROPOSED
PHASE 1	
PHASE 2	
PHASE 3	



BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

0 50' 100' 200'
SCALE: 1" = 100'

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PHASING PLAN

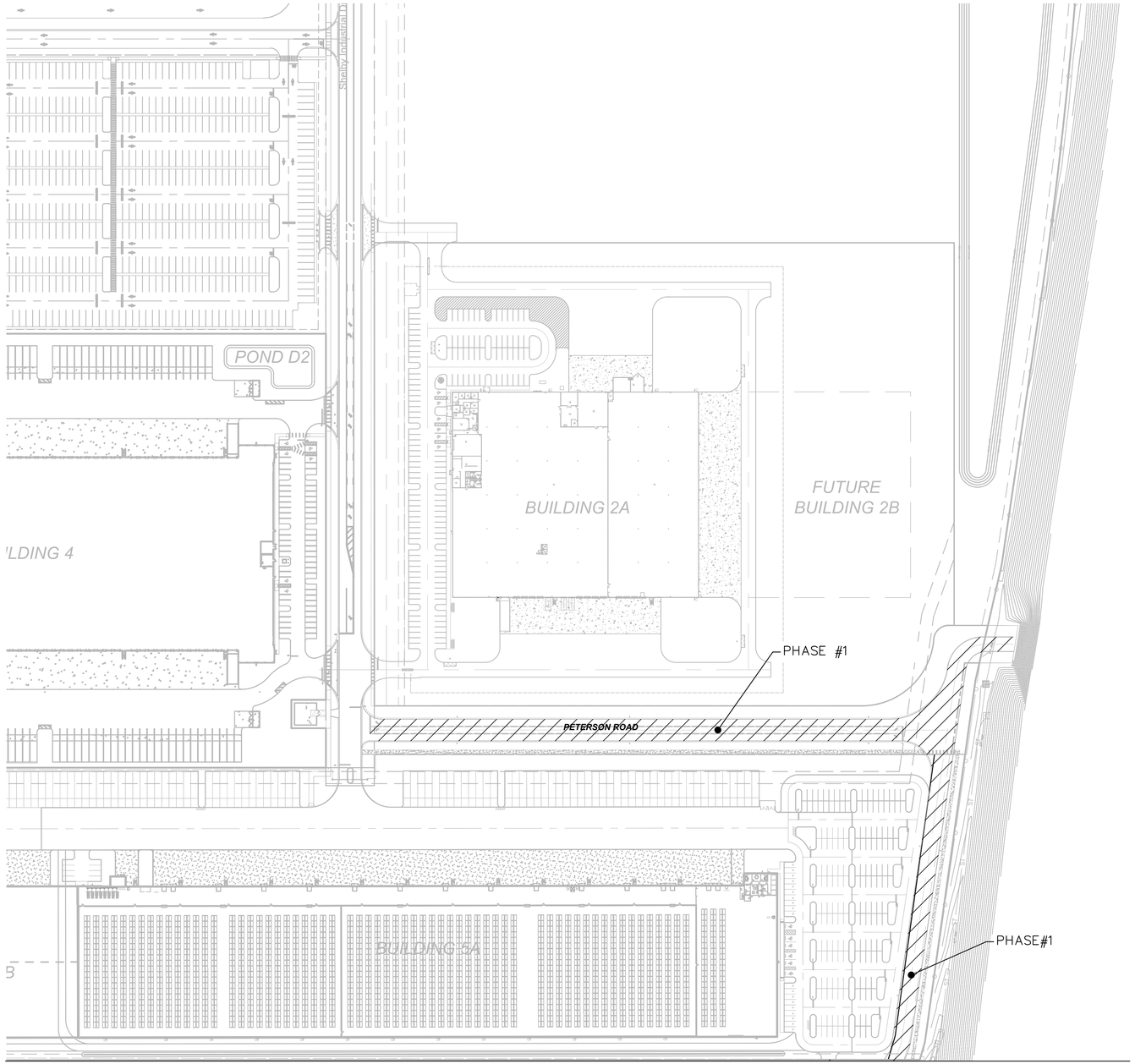
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023	
PROJECT NO.: ANC-7	
DRAWN BY: DM	
CHECKED BY: DMS	
SCALE: 1" = 100'	
SHEET: 07-A OF 33	

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LEGEND

DESCRIPTION	PROPOSED
PHASE 1	
PHASE 2	
PHASE 3	



MATCHLINE - SHEET 07-A

N

0 50' 100' 200'
SCALE: 1" = 100'

BlueScope Properties Group

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OFFSITE PHASING PLAN

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
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DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 100'
SHEET: 07-B OF 33

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NOTES

GENERAL:

PROJECT SHALL COMPLY WITH THE LIGHT INDUSTRIAL USE DESIGN STANDARDS SET FORTH IN CITY OF APOPKA LAND DEVELOPMENT CODE.

LANDSCAPING:

ALL LANDSCAPING SHALL MEET OR EXCEED THE REQUIREMENTS OF CITY OF APOPKA LAND DEVELOPMENT CODE.

SITE LIGHTING:

ALL SITE LIGHTING SHALL MEET OR EXCEED THE REQUIREMENTS OF CITY OF APOPKA LAND DEVELOPMENT CODE.

SIGNAGE:

POLE SIGNS, BILLBOARDS AND ALL OTHER SIGNAGE SHALL COMPLY WITH THE CITY OF APOPKA LAND DEVELOPMENT CODE.

EASEMENTS:

ANY EASEMENT SHOWN AS PROPOSED WILL BE RECORDED PRIOR TO ISSUING THE CERTIFICATE OF OCCUPANCY.

UTILITY PROVIDERS

WATER:	CITY OF APOPKA
WASTEWATER:	CITY OF APOPKA
ELECTRIC:	DUKE ENERGY

PHASING

PROJECT WILL BE CONSTRUCTED IN 3 PHASES. SEE PHASING PLANS FOR DETAILS

SOILS

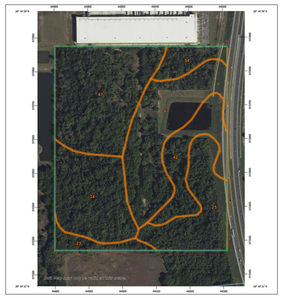
SOIL SYMBOL	SOIL DESCRIPTION
6	CANDLER-APOPKA FINE SANDS, 5 TO 12 PERCENT SLOPES
23	MALABAR FINE SAND, 0 TO 5 PERCENT SLOPES
25	OKEELANTA MUCK, 0 TO 5 PERCENT SLOPES
34	POMELO FINE SAND, 0 TO 5 PERCENT SLOPES
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47	TAVARES-MILLHOPPER FINE SANDS, 0 TO 5 PERCENT SLOPES
54	ZOLFO FINE SAND, 0 TO 2 PERCENT SLOPES

VEGETATION

GENERALIZED VEGETATION BASED UPON THE FLORIDA LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM (FLUCFCS) OR THE NATURAL COMMUNITY TYPES AS DEVELOPED BY THE FLORIDA NATURAL AREAS INVENTORY.

STORMWATER MANAGEMENT

STORMWATER FOR THE PROPERTY WILL BE HANDLED BY ON-SITE POND AS REQUIRED BY CITY OF APOPKA AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT. BASED ON THE NATIONAL FLOOD INSUANCE PROGRAM FIRM MAP NO. 12095C0125H EFFECTIVE SEPTEMBER 24, 2021 THE DESCRIBED PROPERTY IS WITHIN ZONE "X" AND ZONE "AE" WITH BASE FLOOD ELEVATION HAS BEEN ESTABLISHED.



TRAFFIC ANALYSIS

PER 11TH EDITION ITE TRIP GENERATION MANUAL - LAND USE WAREHOUSE (150) - 1,364 ADT 151 PM PEAK HOUR TRIP. (27 % IN AND 73% OUT)

BUILDING DATA

BUILDING FOOTPRINT AREA:	691,016 S.F.
MAX. BUILDING HEIGHT:	45 FT.
MAX. FLOOR AREA RATIO:	0.40 FAR

YARD SETBACKS

REQUIRED:

FRONT:	10 FT.
SIDES:	10FT (30 Ft when adjacent to a residential use or District)
REAR:	10 FT (30 Ft when adjacent to a residential use or District)

SITE DATA

TOTAL GROSS AREA:	71.3 AC.	
EXISTING ZONING:	I-L	
ADJACENT ZONING:		
NORTH:	PUD	
EAST:	A-1	
SOUTH	CONSERVATION	
WEST	PUD	
FLU	INDUSTRIAL	
REQUIRED OPEN-SPACE	3.6 AC.	5%
PROPOSED OPEN-SPACE:	10.02 AC.	14.17%
PERVIOUS AREA:	33.77 AC.	47.75%
IMPERVIOUS AREA:	36.94 AC.	52.25%
TOTAL GROSS AREA:	70.71 AC.	100.00%

BOTTOM OF DRY POND AREA:	4.78 AC.
BOTTOM OF CFX POND AREA:	2.523 AC.
LIFT STATION TRACT AREA:	0.0764 AC.
IMPERVIOUS WETLAND AREA:	10.130 AC.

PARKING CALC'S

PARKING REQUIREMENT:
2 PS / 1,000 SF OF OFFICES + 1 PS / 600 SF UP TO 3,000 SF, THEN 1/ ADDITIONAL 3,000 SF (ADA) 8 PARKING REQUIRED FOR (301-400 PS)

FOR 352,268 SF OF BUILDING # 1
10% OFFICES = 35,226 SF @ 2PS/1000 SF = 72 SPACES
DISTRIBUTION= 317,041 SF @ 1PS/600 UP TO 3,000 SF, AND THEN 1/ADDITIONAL 3,000 SF = 110 SPACES.

TOTAL SPACES REQUIRED = 110 SPACES + 72 SPACES
=182 SPACES / BUILDING

FOR 338,748 OF BUILDING # 2
10% OFFICES = 33,875 SF @ 2PS/1000 SF = 68 SPACES
DISTRIBUTION= 304,873 SF @ 1PS/600 UP TO 3,000 SF, AND THEN 1/ADDITIONAL 3,000 SF = 106 SPACES.

TOTAL SPACES REQUIRED = 106 SPACES + 68 SPACES
= 174 SPACES / BUILDING

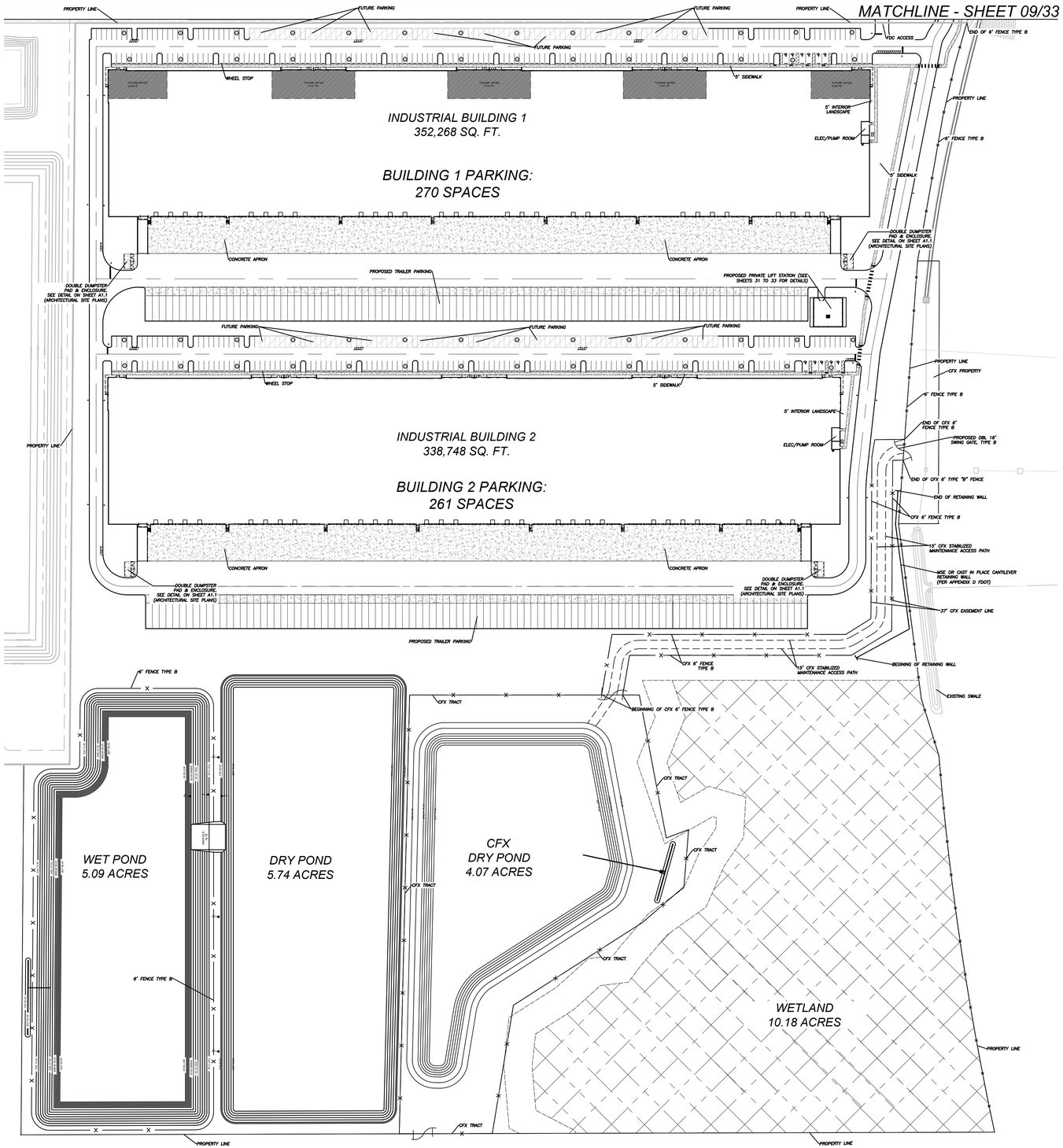
TOTAL SPACES REQUIRED = 182 PS + 174 PS = 356 SPACES
TOTAL ADA SPACES REQUIRED = 8 SPACES

PARKING REQUIRED:

REGULAR SPACES	= 356 SPACES
HANDICAP SPACES	= 8 SPACES
TOTAL PARKING REQUIRED	= 364 SPACES

PARKING PROVIDED:

REGULAR SPACES	= 356 SPACES
FUTURE PARKING SPACES	= 164 SPACES
TRAILER PARKING SPACES	= 196 SPACES
HANDICAP SPACES	= 11 SPACES
TOTAL PARKING PROVIDED	= 727 SPACES



0 50' 100' 200'
SCALE: 1" = 100'

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

OVERALL SITE PLAN

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 100'
SHEET: 08 OF 33

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NOTES

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WASTEWATER:	CITY OF APOPKA
ELECTRIC:	DUKE ENERGY

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SOILS

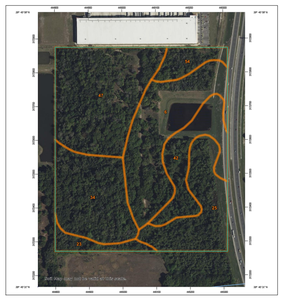
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GENERALIZED VEGETATION BASED UPON THE FLORIDA LAND USE, COVER AND FORMS CLASSIFICATION SYSTEM (FLUCFCS) OR THE NATURAL COMMUNITY TYPES AS DEVELOPED BY THE FLORIDA NATURAL AREAS INVENTORY.

STORMWATER MANAGEMENT

STORMWATER FOR THE PROPERTY WILL BE HANDLED BY ON-SITE POND AS REQUIRED BY CITY OF APOPKA AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT. BASED ON THE NATIONAL FLOOD INSUANCE PROGRAM FIRM MAP NO. 12095C0125H EFFECTIVE SEPTEMBER 24, 2021 THE DESCRIBED PROPERTY IS WITHIN ZONE "X" AND ZONE "AE" WITH BASE FLOOD ELEVATION HAS BEEN ESTABLISHED.



TRAFFIC ANALYSIS

PER 11TH EDITION ITE TRIP GENERATION MANUAL - LAND USE WAREHOUSE (150) - 1,364 ADT 151 PM PEAK HOUR TRIP. (27 % IN AND 73% OUT)

BUILDING DATA

BUILDING FOOTPRINT AREA:	691,016 S.F.
MAX. BUILDING HEIGHT:	45 FT.
MAX. FLOOR AREA RATIO:	0.40 FAR

YARD SETBACKS

REQUIRED:

FRONT:	10 FT.
SIDES:	10FT (30 Ft when adjacent to a residential use or District)
REAR:	10 FT (30 Ft when adjacent to a residential use or District)

SITE DATA

TOTAL GROSS AREA:	71.3 AC.	
EXISTING ZONING:	I-L	
ADJACENT ZONING:		
NORTH:	PUD	
EAST:	A-1	
SOUTH	CONSERVATION	
WEST	PUD	
FLU	INDUSTRIAL	
REQUIRED OPEN-SPACE	3.6 AC.	5%
PROPOSED OPEN-SPACE:	10.02 AC.	14.17%
PERVIOUS AREA:	33.77 AC.	47.75%
IMPERVIOUS AREA:	36.94 AC.	52.25%
TOTAL GROSS AREA:	70.71 AC.	100.00%

BOTTOM OF DRY POND AREA:	4.78 AC.
BOTTOM OF CFX POND AREA:	2.523 AC.
LIFT STATION TRACT AREA:	0.0764 AC.
IMPERVIOUS WETLAND AREA:	10.130 AC.

PARKING CALC'S

PARKING REQUIREMENT:
2 PS / 1,000 SF OF OFFICES + 1 PS / 600 SF UP TO 3,000 SF, THEN 1/ ADDITIONAL 3,000 SF
(ADA) 8 PARKING REQUIRED FOR (301-400 PS)

FOR 352,268 SF OF BUILDING # 1
10% OFFICES = 35,226 SF @ 2PS/1000 SF = 72 SPACES
DISTRIBUTION= 317,041 SF @ 1PS/600 UP TO 3,000 SF, AND THEN 1/ADDITIONAL 3,000 SF = 110 SPACES.

TOTAL SPACES REQUIRED = 110 SPACES + 72 SPACES
=182 SPACES / BUILDING

FOR 338,748 OF BUILDING # 2
10% OFFICES = 33,875 SF @ 2PS/1000 SF = 68 SPACES
DISTRIBUTION= 304,873 SF @ 1PS/600 UP TO 3,000 SF, AND THEN 1/ADDITIONAL 3,000 SF = 106 SPACES.

TOTAL SPACES REQUIRED = 106 SPACES + 68 SPACES
= 174 SPACES / BUILDING

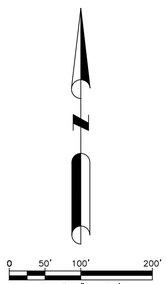
TOTAL SPACES REQUIRED = 182 PS + 174 PS = 356 SPACES
TOTAL ADA SPACES REQUIRED = 8 SPACES

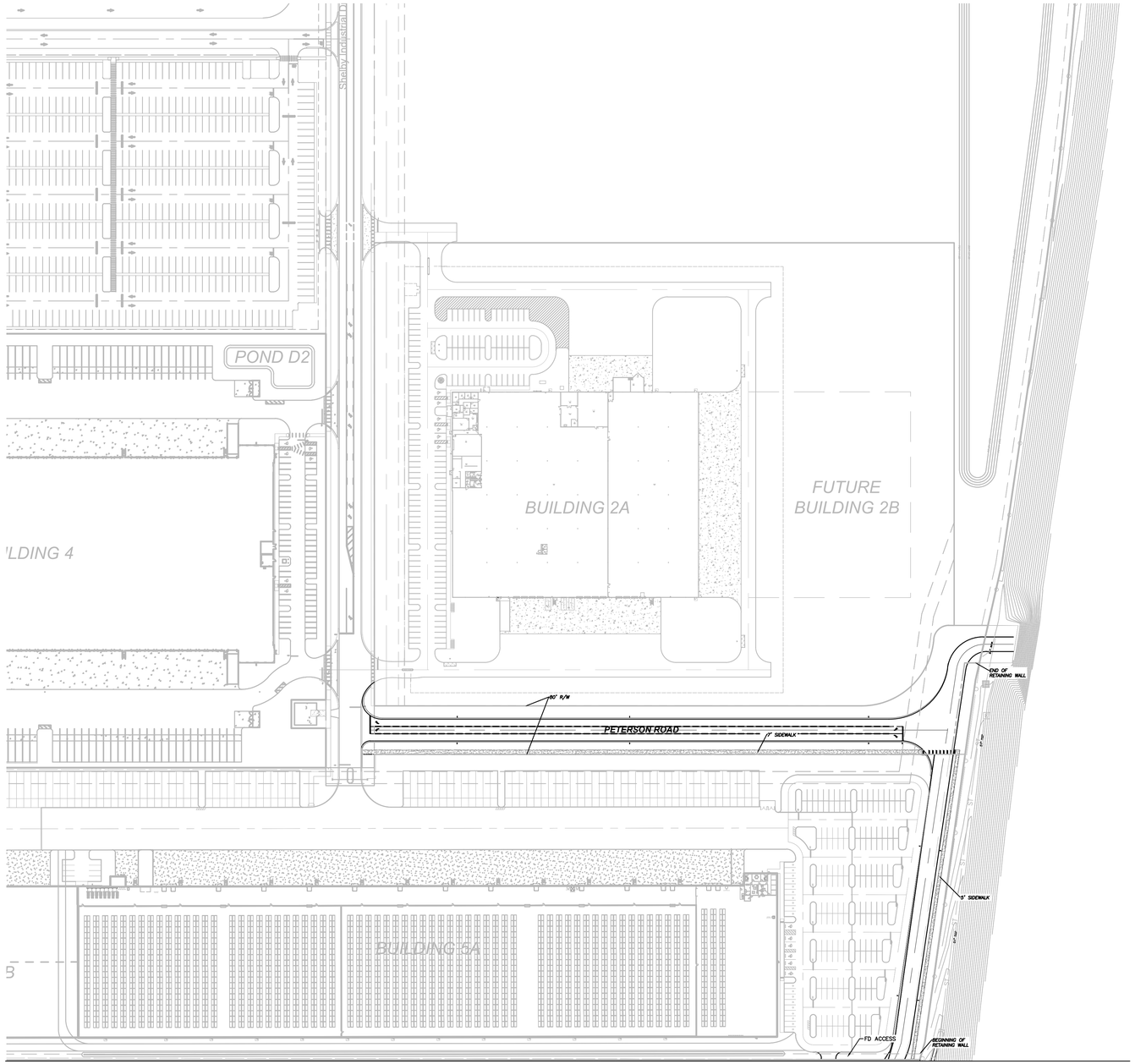
PARKING REQUIRED:

REGULAR SPACES	= 356 SPACES
HANDICAP SPACES	= 8 SPACES
TOTAL PARKING REQUIRED	= 364 SPACES

PARKING PROVIDED:

REGULAR SPACES	= 356 SPACES
FUTURE PARKING SPACES	= 164 SPACES
TRAILER PARKING SPACES	= 196 SPACES
HANDICAP SPACES	= 11 SPACES
TOTAL PARKING PROVIDED	= 727 SPACES





MATCHLINE - SHEET 08/33

BlueScope Properties Group

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DAVE SCHMITT ENGINEERING, INC.
12301 LAKE UNDERHILL ROAD
SUITE 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

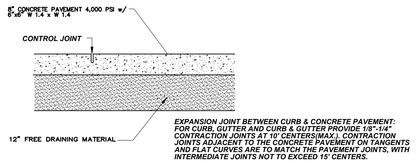
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

OVERALL OFFSITE PLAN

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 100'
SHEET: 09 OF 33

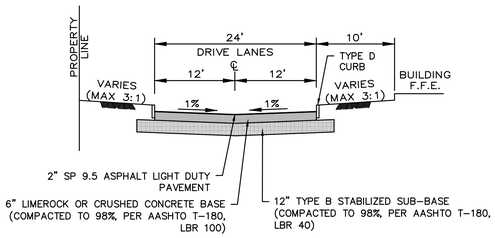
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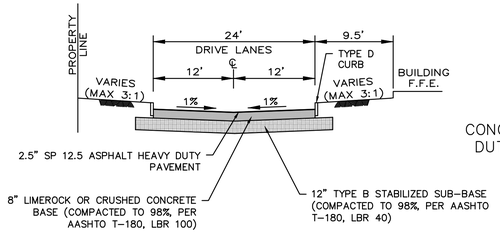
TYPICAL CONCRETE PAVEMENT SECTION

LEGEND

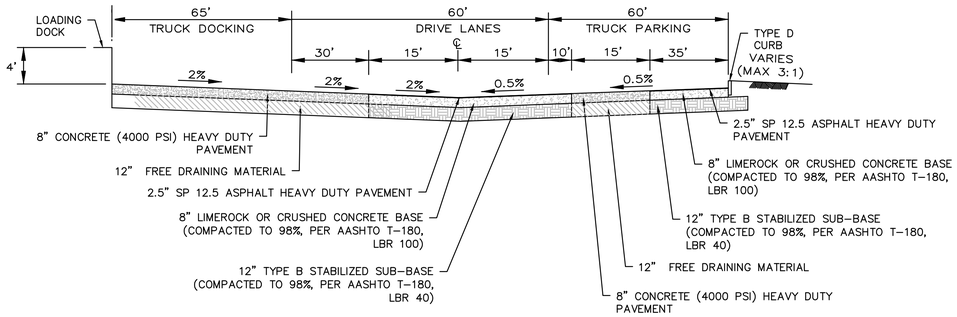
DESCRIPTION	*PROPOSED*
CONCRETE HEAVY DUTY PAVEMENT	
ASPHALT HEAVY DUTY PAVEMENT	
ASPHALT LIGHT DUTY PAVEMENT	
CFX ACCESS ROAD	
ASPHALT HEAVY DUTY PAVEMENT (PETERSON ROAD)	



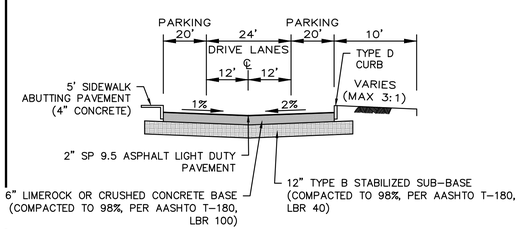
ROADWAY SECTION A-A



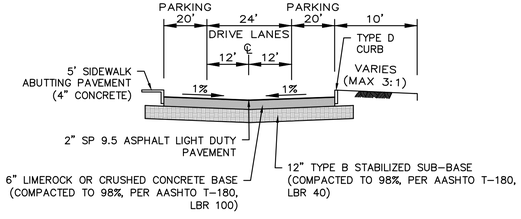
ROADWAY SECTION B-B



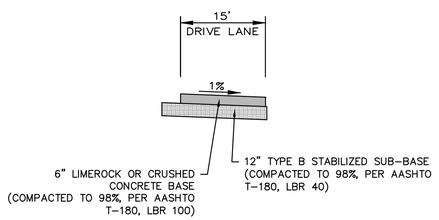
ROADWAY SECTION C-C



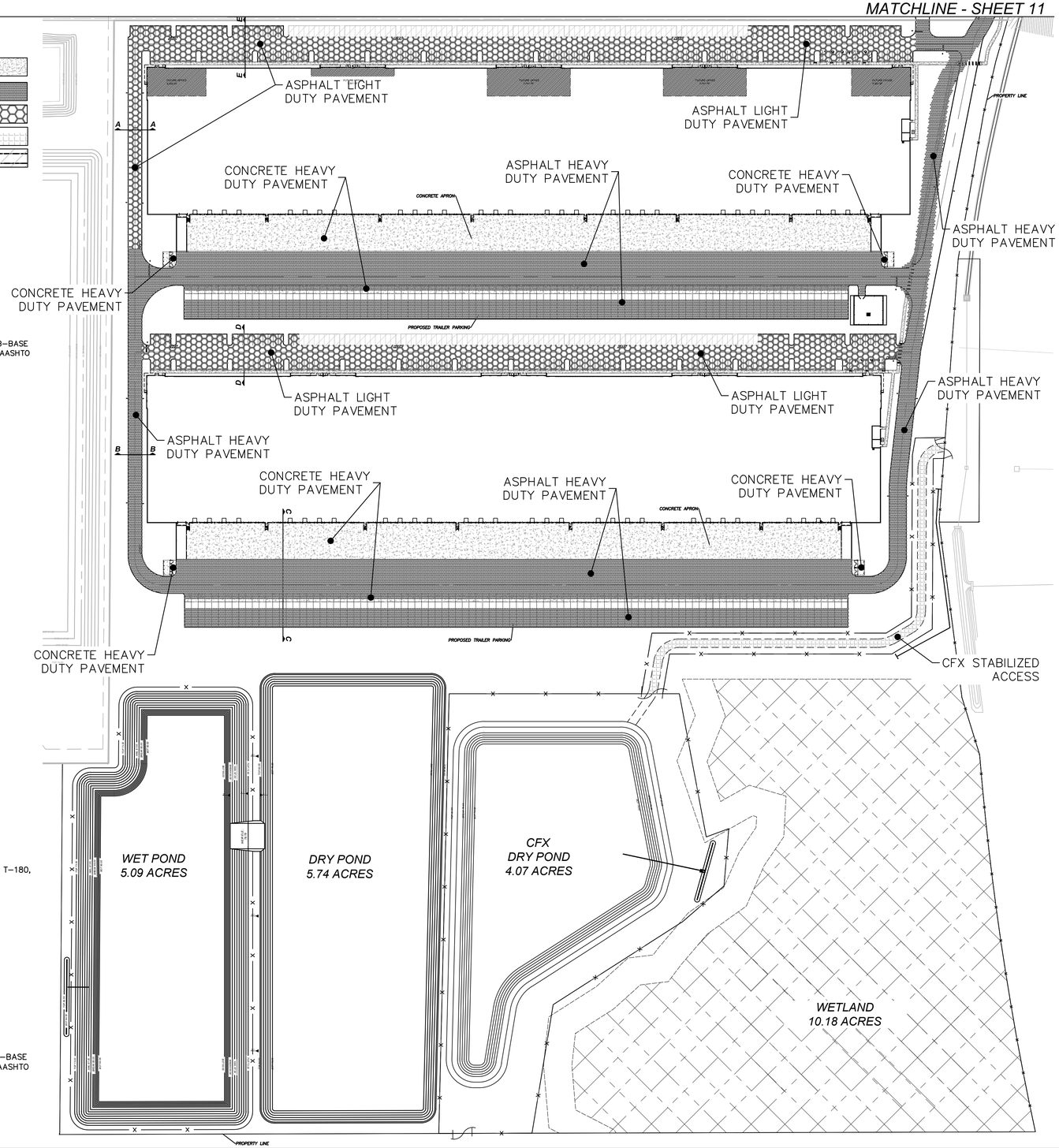
ROADWAY SECTION D-D

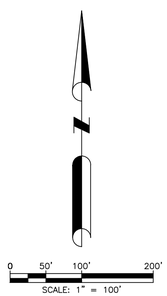


ROADWAY SECTION E-E



CFX ACCESS SECTION





BlueScope Properties Group

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Certification of Authorization #27471

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

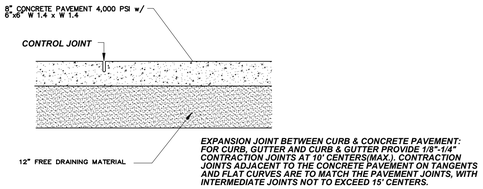
PAVING PLAN

MID-FLORIDA SOUTH LOGISTICS PARK

APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 100'
SHEET: 10 OF 33

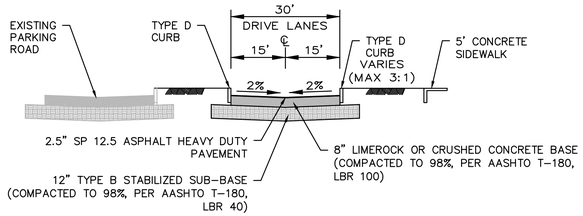
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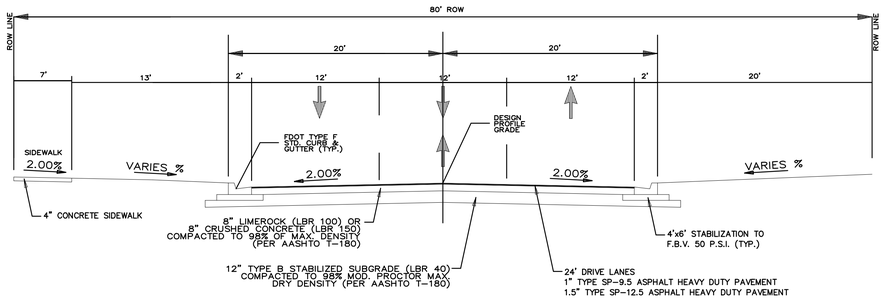
TYPICAL CONCRETE PAVEMENT SECTION

LEGEND

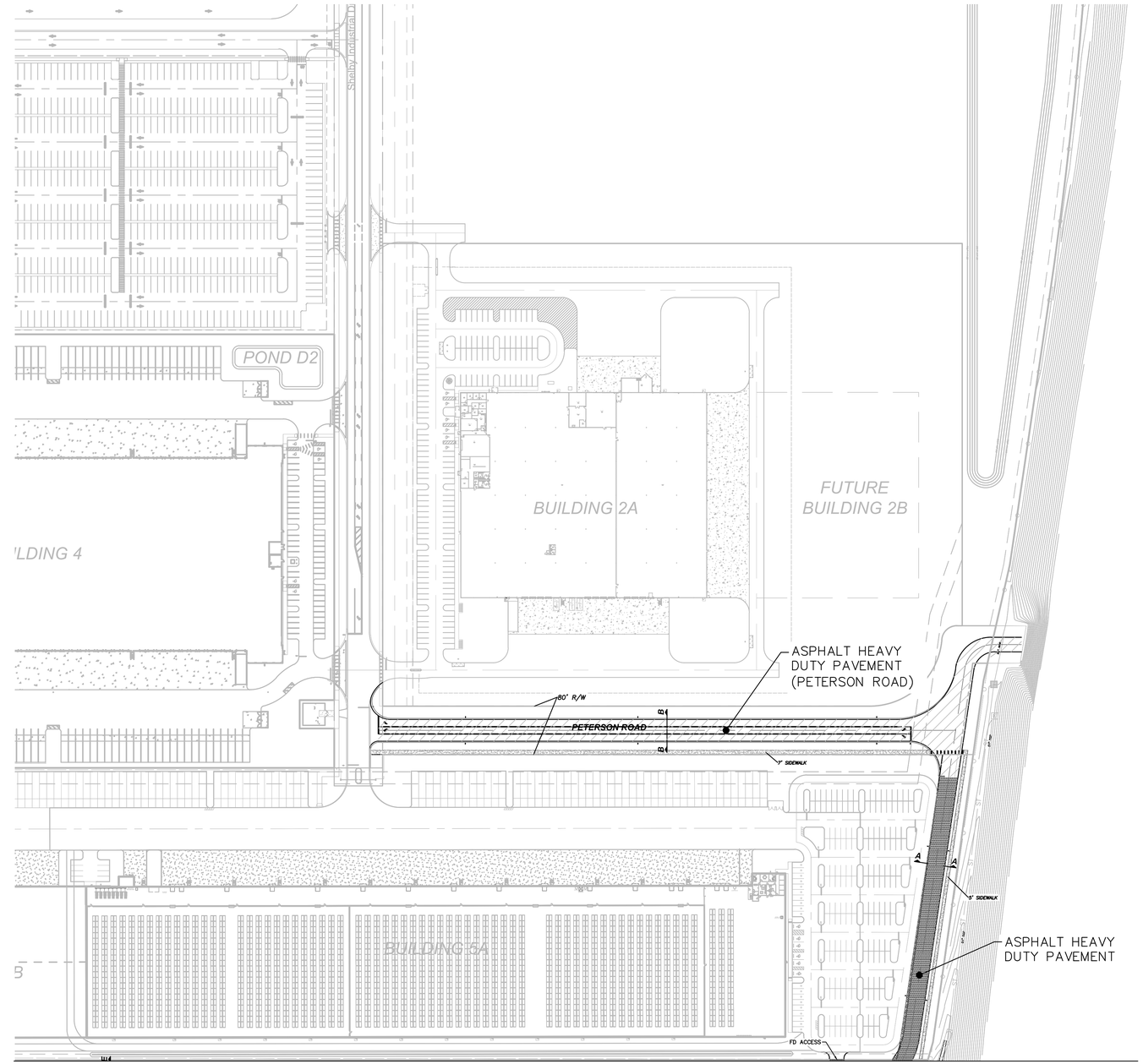
DESCRIPTION	*PROPOSED*
CONCRETE HEAVY DUTY PAVEMENT	
ASPHALT HEAVY DUTY PAVEMENT	
ASPHALT LIGHT DUTY PAVEMENT	
ASPHALT HEAVY DUTY PAVEMENT (PETERSON ROAD)	



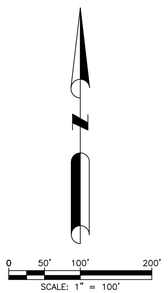
ROADWAY SECTION A-A



ROADWAY SECTION B-B (PETERSON ROAD)



MATCHLINE - SHEET 10



BlueScope Properties Group

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Certification of Authorization #27471

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

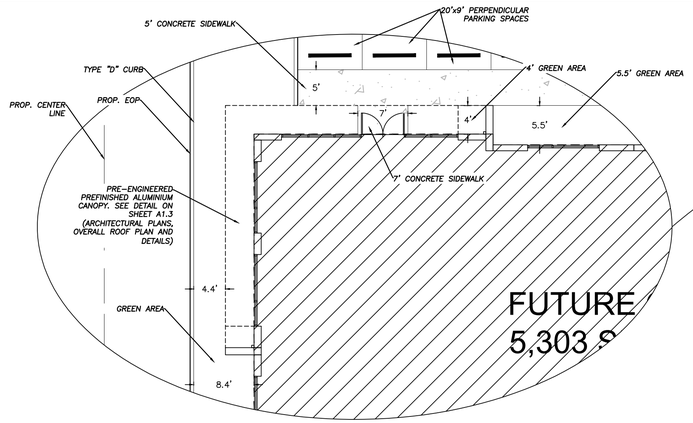
OFFSITE PAVING PLAN

MID-FLORIDA SOUTH LOGISTICS PARK

APOPKA, FLORIDA

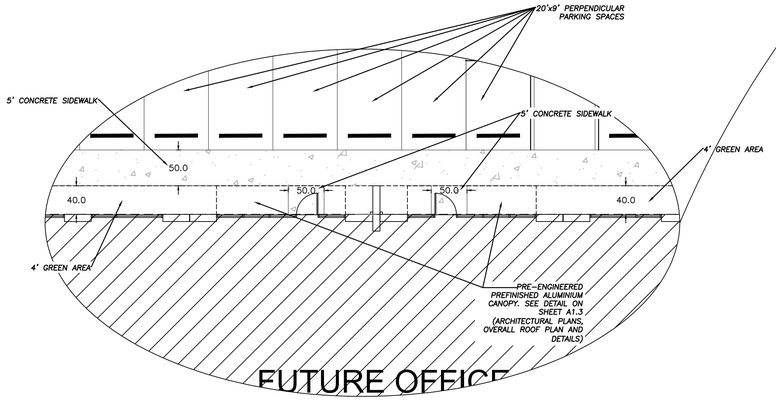
DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 100'
SHEET: 11 OF 33

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DETAIL - A

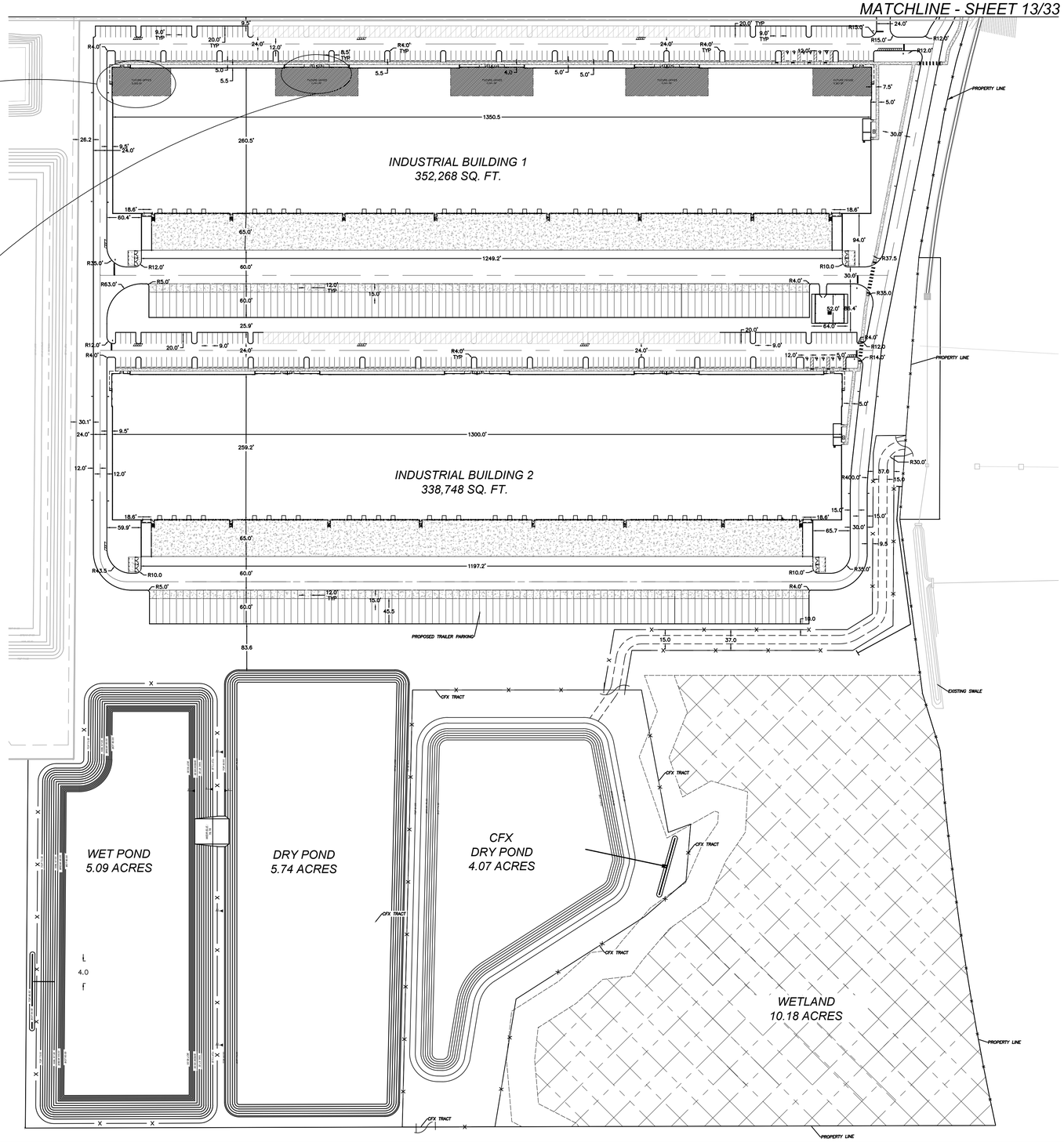
SCALE 1:10



DETAIL - B

SCALE 1:10

MATCHLINE - SHEET 13/33





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Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

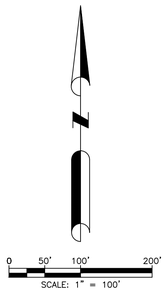
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

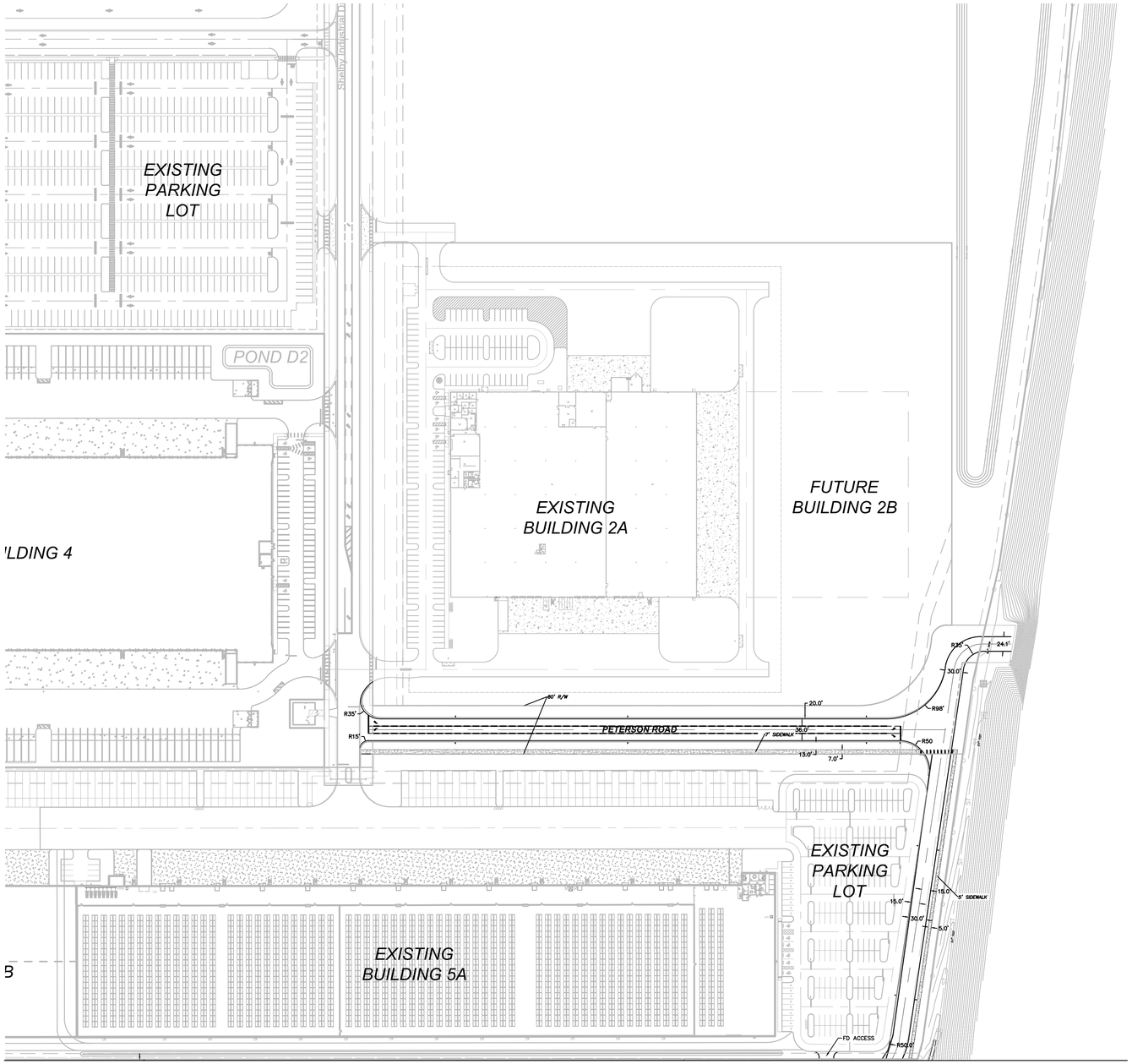
DIMENSION PLAN-1

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 100'
SHEET: 12 OF 33

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MATCHLINE - SHEET 12/33

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12301 LAKE UNDERHILL ROAD
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407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

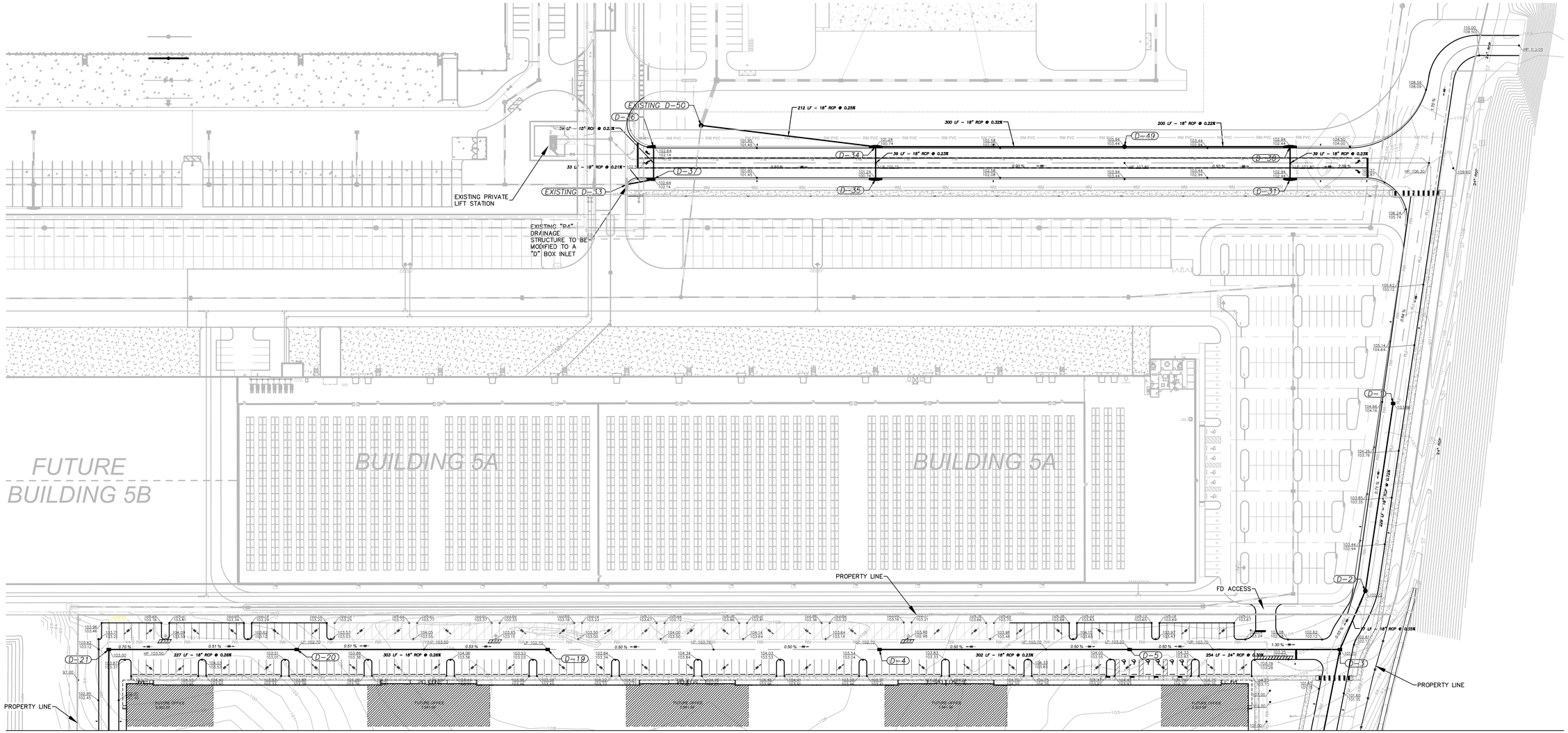
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

DIMENSION PLAN-2

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023	
PROJECT NO.: ANC-7	
DRAWN BY: DM	
CHECKED BY: DMS	
SCALE: 1" = 100'	
SHEET: 13 OF 33	

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MATCHLINE - SHEET 15/33

DRAINAGE STRUCTURE DATA

D-1
TYPE "C" INLET
N: 1581304.74
E: 476629.76
TOP EL: 103.86
S INV EL: 99.15

D-2
DRAINAGE MANHOLE
N: 1581077.95
E: 476596.15
TOP EL: 102.22
N INV EL: 97.51
SW INV EL: 97.41

D-3
TYPE "C" INLET
N: 1581007.73
E: 476565.57
TOP EL: 101.70
NE INV EL: 96.89
W INV EL: 96.45
S INV EL: 95.90

D-4
TYPE "C" INLET
N: 1581007.73
E: 476010.22
TOP EL: 102.70
E INV EL: 97.99

D-5
TYPE "C" INLET
N: 1581007.53
E: 476311.94
TOP EL: 103.20
W INV EL: 97.30
E INV EL: 97.20

D-19
TYPE "C" INLET
N: 1581007.73
E: 475609.77
TOP EL: 102.70
W INV EL: 97.99

D-20
TYPE "C" INLET
N: 1581007.73
E: 475307.02
TOP EL: 102.70
E INV EL: 97.20
W INV EL: 97.10

D-21
TYPE "C" INLET
N: 1581007.53
E: 475080.29
TOP EL: 103.00
E INV EL: 96.50
S INV EL: 96.40

D-30
TYPE "P5" INLET
N: 1581614.52
E: 476505.49
TOP EL: 102.94
S INV EL: 98.14
W INV EL: 98.04

D-31
TYPE "P5" INLET
N: 1581575.35
E: 476505.49
TOP EL: 102.94
N INV EL: 98.23

D-34
TYPE "P5" INLET
N: 1581614.52
E: 476005.36
TOP EL: 101.24
S INV EL: 96.44
E INV EL: 96.53
W INV EL: 96.34

D-35
TYPE "P5" INLET
N: 1581575.35
E: 476005.36
TOP EL: 101.24
N INV EL: 96.53

D-36
TYPE "P5" INLET
N: 1581614.19
E: 475737.61
TOP EL: 102.69
S INV EL: 98.15

D-37
TYPE "P5" INLET
N: 1581575.69
E: 475737.61
TOP EL: 102.69
W INV EL: 98.06
N INV EL: 98.06

D-49
DRAINAGE MANHOLE
N: 1581614.52
E: 476305.72
TOP EL: 103.44
E INV EL: 97.60
W INV EL: 97.50

EXISTING D-33
DRAINAGE MANHOLE
N: 1581568.96
E: 475705.19
TOP EL: 102.80
E INV EL: 97.99

EXISTING D-50
DRAINAGE MANHOLE
N: 1581640.27
E: 475794.82
TOP EL: 100.34
E INV EL: 95.80

LEGEND

DESCRIPTION	PROPOSED
SANITARY SEWER SYSTEM	
STORM SEWER SYSTEM	
WATER SYSTEM	
FIRE HYDRANT	
CONTOUR	
DIRECTION OF SURFACE FLOW	

0 30' 60' 120'
SCALE: 1" = 60'

NOTE: ALL STORM WATER PIPE JOINTS AND BOX INLETS SHALL BE WRAPPED WITH FDOT APPROVED FILTER FABRIC PER FDOT INDEX 430-001.

BlueScope Properties Group

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Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

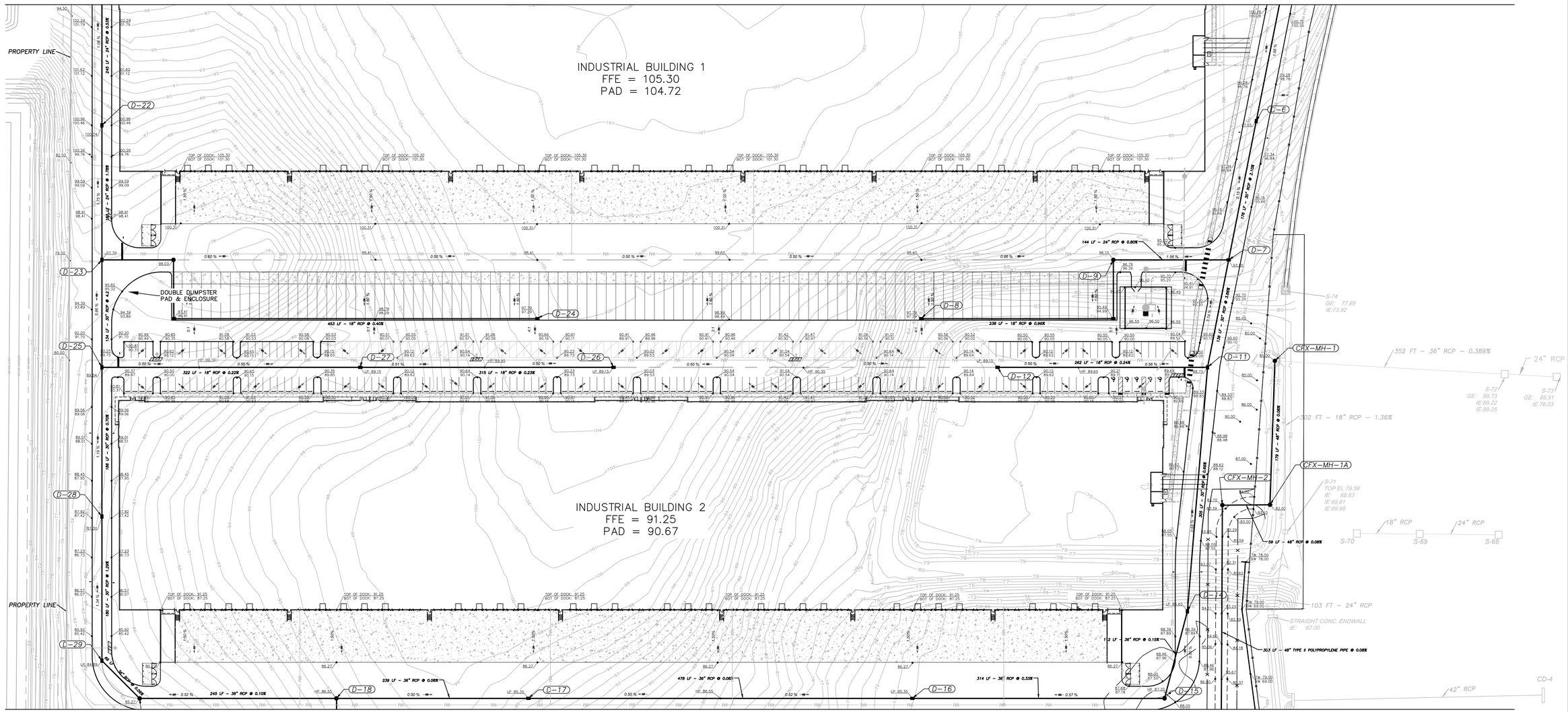
GRADING & DRAINAGE PLAN - 1

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 60'
SHEET: 14 OF 33

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MATCHLINE - SHEET 14/33



MATCHLINE - SHEET 16/33

DRAINAGE STRUCTURE DATA

D–6
TYPE "D" INLET
N: 1580768.07
E: 476517.90
TOP EL: 97.65
N INV EL: 91.85
S INV EL: 91.75

D–7
TYPE "D" INLET
N: 1580595.23
E: 476483.52
TOP EL: 93.85
N INV EL: 88.05
W INV EL: 88.60
S INV EL: 87.95

D–9
DRAINAGE MANHOLE
N: 1580595.23
E: 476339.94
TOP EL: 96.10
S INV EL: 89.85
E INV EL: 89.75

D–11
TYPE "D" INLET
N: 1580461.33
E: 476457.28
TOP EL: 88.75
N INV EL: 82.95
W INV EL: 83.80
S INV EL: 82.85

D–12
TYPE "C" INLET
N: 1580461.33
E: 476195.72
TOP EL: 89.15
E INV EL: 84.44

D–14
TYPE "D" INLET
N: 1580157.28
E: 476432.15
TOP EL: 86.65
N INV EL: 80.85
S INV EL: 80.32

D–15
TYPE "C" INLET
N: 1580048.83
E: 476403.89
TOP EL: 87.30
N INV EL: 80.15
W INV EL: 80.05

D–16
TYPE "D" INLET
N: 1580048.83
E: 476089.68
TOP EL: 85.35
E INV EL: 79.02
W INV EL: 78.92

D–17
TYPE "D" INLET
N: 1580048.83
E: 475611.46
TOP EL: 85.35
E INV EL: 78.55
W INV EL: 78.45
E: 476100.85
TOP EL: 97.29
E INV EL: 92.58

D–18
DRAINAGE MANHOLE
N: 1580048.83
E: 475372.35
TOP EL: 86.55
E INV EL: 78.27
S INV EL: 78.05
W INV EL: 78.15

D–22
TYPE "C" INLET
N: 1580762.85
E: 475080.29
TOP EL: 100.34
N INV EL: 95.09
S INV EL: 94.99

D–23
TYPE "D" INLET
N: 1580595.23
E: 475080.29
TOP EL: 97.39
N INV EL: 92.00
E INV EL: 89.85
S INV EL: 89.00

D–24
TYPE "C" INLET
N: 1580322.58
E: 475622.64
TOP EL: 97.29
W INV EL: 92.52

D–25
TYPE "D" INLET
N: 1580461.33
E: 475080.29
TOP EL: 89.54
N INV EL: 83.25
E INV EL: 82.90
S INV EL: 82.80

D–26
TYPE "C" INLET
N: 1580461.33
E: 475717.50
TOP EL: 89.15
W INV EL: 84.44

D–27
TYPE "C" INLET
N: 1580461.33
E: 475402.12
TOP EL: 89.15
E INV EL: 83.70
W INV EL: 83.60

D–28
TYPE "D" INLET
N: 1580275.50
E: 475080.29
TOP EL: 87.30
N INV EL: 81.50
S INV EL: 81.40

D–29
TYPE "D" INLET
N: 1580095.83
E: 475080.29
TOP EL: 84.89
N INV EL: 79.09
SE INV EL: 78.56

CFX–MH–1
DRAINAGE MANHOLE
N: 1580469.41
E: 476541.11
TOP EL: 85.00
S INV EL: 74.41

CFX–MH–1A
DRAINAGE MANHOLE
N: 1580290.11
E: 476535.00
TOP EL: 82.00
N INV EL: 74.26
W INV EL: 74.26

CFX–MH–2
DRAINAGE MANHOLE
N: 1580289.70
E: 476475.75
TOP EL: 83.70
E INV EL: 74.21
S INV EL: 74.21

LEGEND

DESCRIPTION	PROPOSED
SANITARY SEWER SYSTEM	
STORM SEWER SYSTEM	
WATER SYSTEM	
FIRE HYDRANT	
CONTOUR	
DIRECTION OF SURFACE FLOW	

0 30' 60' 120'
SCALE: 1" = 60'

NOTE: ALL STORM WATER PIPE JOINTS AND BOX INLETS SHALL BE WRAPPED WITH FDOT APPROVED FILTER FABRIC PER FDOT INDEX 430-001.

BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

DAVE SCHMITT ENGINEERING, INC.
12301 LAKE UNDERHILL ROAD
SUITE 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

GRADING & DRAINAGE PLAN - 2

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023	
PROJECT NO.: ANC-7	
DRAWN BY: DM	
CHECKED BY: DMS	
SCALE: 1" = 60'	
SHEET: 15 OF 33	

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MATCHLINE - SHEET 15/33

WET POND
5.09ACRES

DRY POND
5.74 ACRES

CFX
DRY POND
4.07 ACRES

WETLAND
10.18 ACRES

PROPERTY LINE

EXISTING SWALE

PROPOSED 300 FT SWALE

FLOOD LINE
68.3 FT

MES-1
WITH CONCRETE DITCH
PAVEMENT (WITH WEEP HOLES)
IE: 73.40

193 LF – 48" RCP @ 0.08%

421 LF – 48" RCP @ 0.08%

90 LF – 48" RCP @ 0.08%

60 LF – 48" RCP @ 0.08%

152 LF – 24" RCP @ 1.32%

40 LF – 36" RCP @ 0.50%

CFX–MH–3
CFX–MH–4
CFX–MH–5
CFX–MH–6
MES–1
CS–1
CS–2
OUTFALL–1
OUTFALL–2
D–29A
D–32

R55'
R60
R61'
R50'

LEGEND

DESCRIPTION	PROPOSED
SANITARY SEWER SYSTEM	
STORM SEWER SYSTEM	
WATER SYSTEM	
FIRE HYDRANT	
CONTOUR	
DIRECTION OF SURFACE FLOW	

NOTE: ALL STORM WATER PIPE JOINTS AND BOX INLETS SHALL BE WRAPPED WITH FDOT APPROVED FILTER FABRIC PER FDOT INDEX 430-001.

0 30' 60' 120'
SCALE: 1" = 60'

DRAINAGE STRUCTURE DATA

CFX–MH–3	CFX–MH–4	CFX–MH–5	CFX–MH–6	CS–1
DRAINAGE MANHOLE	DRAINAGE MANHOLE	DRAINAGE MANHOLE	DRAINAGE MANHOLE	CONTROL STRUCTURE
N: 1579886.93	N: 1579945.24	N: 1579946.03	N: 1579856.67	TYPE "D"
E: 476474.27	E: 476431.09	E: 476010.22	E: 475998.18	N: 1579572.48
TOP EL: 81.90	TOP EL: 82.00	TOP EL: 84.20	TOP EL: 81.10	E: 475942.69
N INV EL: 73.96	NE INV EL: 73.91	E INV EL: 73.57	N INV EL: 73.50	TOP EL: 80.00
SW INV EL: 73.96	W INV EL: 73.91	S INV EL: 73.57	SW INV EL: 73.50	E INV EL: 70.00

MES–1	OUTFALL–1	CS–2	D–32	OUTFALL–2
MES	MES	CONTROL STRUCTURE	TYPE MODIFIED "C" BOX	TYPE MODIFIED "C" BOX
N: 1579744.85	N: 1579540.75	TYPE "C"	BUBBLE UP INLET	BUBBLE UP INLET
E: 475919.33	E: 476091.06	N: 1579335.70	N: 1579856.04	N: 1579335.09
INV EL. = 73.39	INV EL. = 68.00	E: 475001.63	E: 475372.51	E: 474961.31
		TOP EL: 72.50	TOP EL: 85.25	TOP EL: 71.47
		W INV EL: 65.50	N INV EL: 77.90	E INV EL: 65.30

BlueScope Properties Group

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SUITE 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

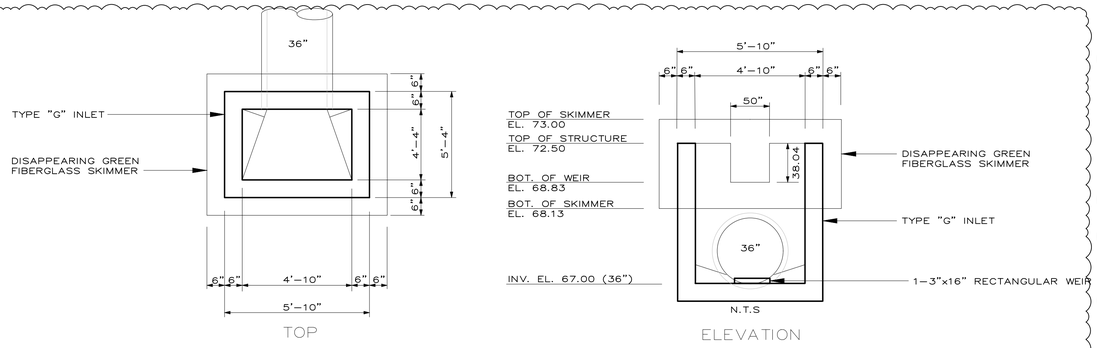
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

GRADING & DRAINAGE PLAN - 3

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

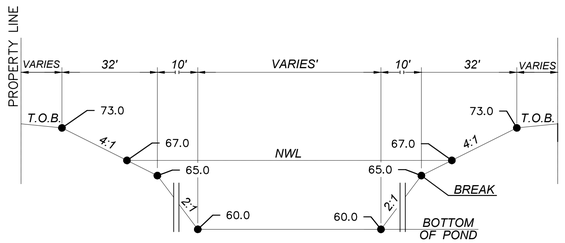
DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 60'
SHEET: 16 OF 33

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CS-2 POND CONTROL STRUCTURE

N.T.S

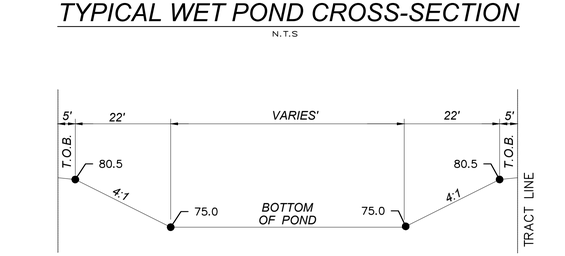


TYPICAL WET POND CROSS-SECTION

N.T.S

WET POND DATA

TOP OF BANK EL.	73.0
NORMAL WATER LEVEL EL.	67.0
BOTTOM OF POND EL.	60.0
MEAN/24HR. D.H.W. EL.	67.0
10YR./24 HR. D.H.W. EL.	67.0
25 YR./24 HR. D.H.W. EL.	67.0
100YR./24 HR. D.H.W. EL.	67.30

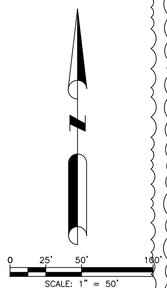


TYPICAL DRY POND CROSS-SECTION

N.T.S.

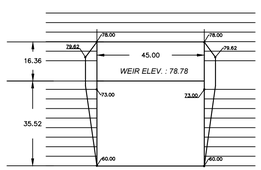
DRY POND DATA

TOP OF BANK EL.	80.50
BOTTOM OF POND EL.	75.00
MEAN/24HR. D.H.W. EL.	75.53
10YR./24 HR. D.H.W. EL.	77.14
25 YR./24 HR. D.H.W. EL.	77.76
100YR./24 HR. D.H.W. EL.	78.79



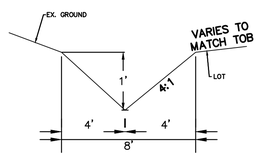
DRAINAGE STRUCTURE DATA

D-32	CS-2	OUTFALL-2
TYPE MODIFIED "C" BOX BUBBLE UP INLET	CONTROL STRUCTURE TYPE "G"	TYPE MODIFIED "C" BOX BUBBLE UP INLET
N: 1579856.04	N: 1579335.70	N: 1579335.99
E: 475372.51	E: 475001.63	E: 474961.31
TOP EL: 85.25	TOP EL: 72.50	TOP EL: 71.47
N INV EL: 77.90	W INV EL: 65.50	E INV EL: 65.30



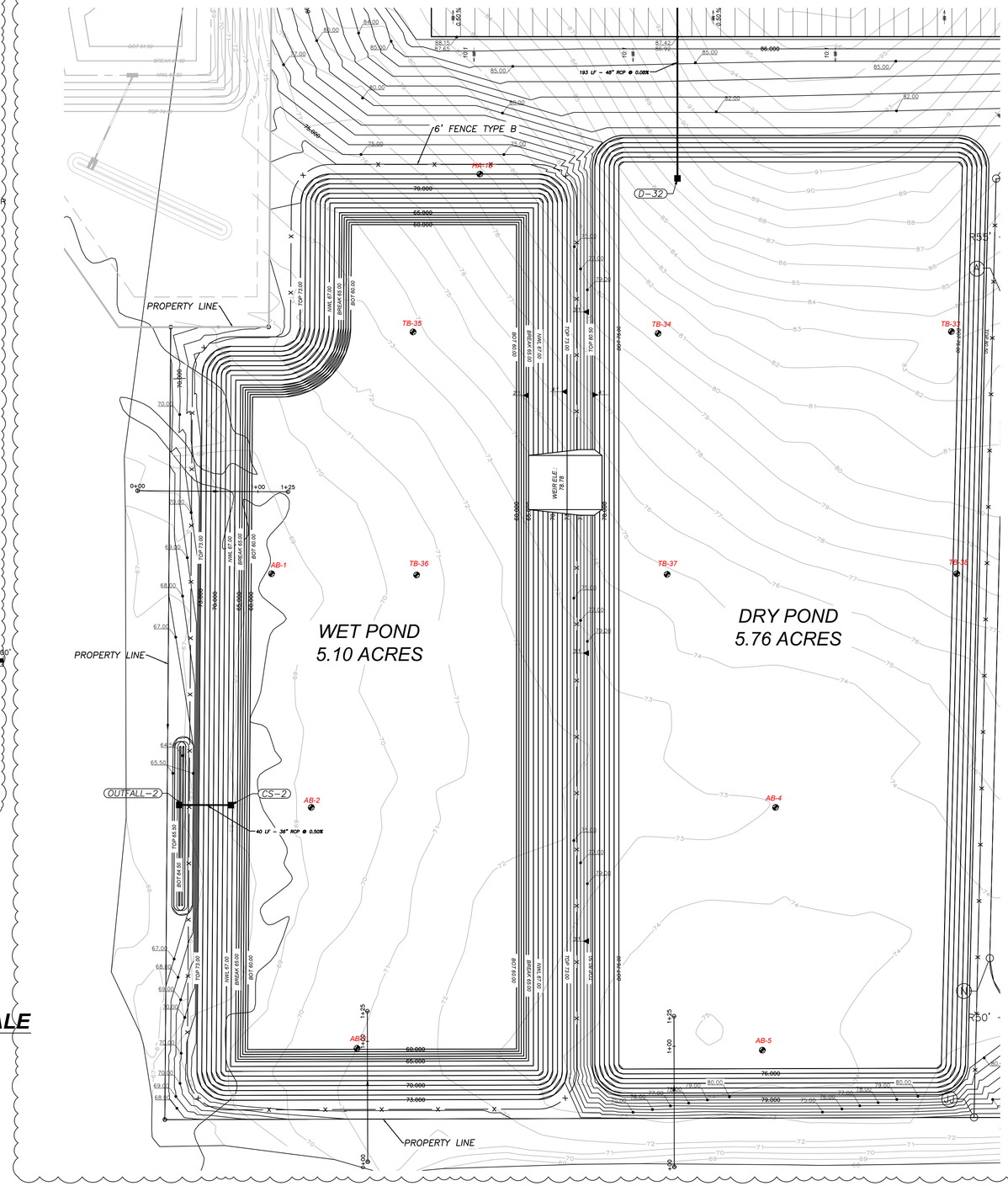
WEIR DETAIL

ESCALE 1: 30



TYPICAL SPREADER SWALE CROSS SECTION

N.T.S



BlueScope Properties Group

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DAVE SCHMITT ENGINEERING, INC.
12301 LAKE UNDERHILL ROAD
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407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
			07/14/2023	DM	REV. PER CITY COMMENTS

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

POND PLAN

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 60'
SHEET: 17 OF 33

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PROPOSE CFX POND GEOMETRY POINTS

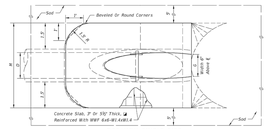
POND POINTS	NORTHING, EASTING	POND POINTS	NORTHING, EASTING
A	475644.63/1579752.98	J	475755.41/1579294.70
B	475699.62/1579806.69	K	475739.69/1579199.19
C	475941.35/1579806.69	L	475690.35/1579157.32
D	475995.40/1579761.86	M	475681.42/1579157.39
E	476032.41/1579565.23	N	475631.86/1579208.56
F	476031.24/1579538.01		
G	476023.03/1579508.58		
H	475997.64/1579474.21		
I	475782.84/1579336.40		

PROPOSE CFX TRACT GEOMETRY POINTS

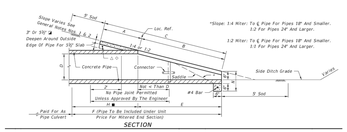
TRACT POINTS	NORTHING, EASTING
AA	475637.05/1579855.86
BB	476045.02/1579855.86
CC	476092.81/1579601.97
DD	476132.59/1579616.70
EE	476124.28/1579515.25
FF	476050.94/1579451.94
GG	475821.42/1579304.68
HH	475783.90/1579076.84
JJ	475618.75/1579076.39

POND DATA

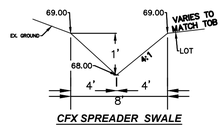
TOP OF BANK EL.	81.00
BOTTOM OF POND EL.	75.00
MEAN/24HR. D.H.W. EL.	76.38
10YR./24HR. D.H.W. EL.	77.89
25YR./24HR. D.H.W. EL.	78.31
100YR./24HR. D.H.W. EL.	79.11



TOP-VIEW SINGLE PIPE



SECTION



CFX SPREADER SWALE
CROSS SECTION
N.T.S

MES-1 CFX POND MITERED END SECTION

N.T.S

DRAINAGE STRUCTURE DATA

D-11
TYPE "D" INLET
N: 1580461.33
E: 476457.28
TOP EL: 88.75
N INV EL: 82.95
W INV EL: 83.80
S INV EL: 82.85

D-12
TYPE "C" INLET
N: 1580461.33
E: 476195.72
TOP EL: 89.15
E INV EL: 84.44

D-14
TYPE "D" INLET
N: 1580157.28
E: 476432.15
TOP EL: 86.65
N INV EL: 80.85
S INV EL: 80.32

D-15
TYPE "C" INLET
N: 1580048.83
E: 476403.89
TOP EL: 87.30
N INV EL: 80.15
W INV EL: 80.05

D-16
TYPE "D" INLET
N: 1580048.83
E: 476089.68
TOP EL: 85.35
E INV EL: 79.02
W INV EL: 78.92

D-17
TYPE "D" INLET
N: 1580048.83
E: 475611.46
TOP EL: 85.35
E INV EL: 78.55
W INV EL: 78.45

CFX-MH-1
DRAINAGE MANHOLE
N: 1580469.41
E: 476541.11
TOP EL: 85.00
S INV EL: 74.41

CFX-MH-1A
DRAINAGE MANHOLE
N: 1580290.11
E: 476535.00
TOP EL: 82.00
N INV EL: 74.26
W INV EL: 74.26

CFX-MH-2
DRAINAGE MANHOLE
N: 1580289.70
E: 476475.75
TOP EL: 83.70
E INV EL: 74.21
S INV EL: 74.21

CFX-MH-3
DRAINAGE MANHOLE
N: 1579986.93
E: 476474.27
TOP EL: 81.90
N INV EL: 73.96
SW INV EL: 73.96

CFX-MH-4
DRAINAGE MANHOLE
N: 1579945.24
E: 476431.09
TOP EL: 82.00
NE INV EL: 73.91
W INV EL: 73.91

CFX-MH-5
DRAINAGE MANHOLE
N: 1579946.03
E: 476010.22
TOP EL: 84.20
E INV EL: 73.57
S INV EL: 73.57

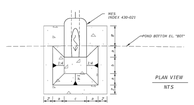
CFX-MH-6
DRAINAGE MANHOLE
N: 1579856.67
E: 475998.18
TOP EL: 81.10
N INV EL: 73.50
SW INV EL: 73.50

MES-1
MES
N: 1579744.85
E: 475919.33
INV EL. = 73.39

CS-1
CONTROL STRUCTURE
TYPE "D"
N: 1579572.48
E: 475942.89
TOP EL: 80.00
E INV EL: 70.00

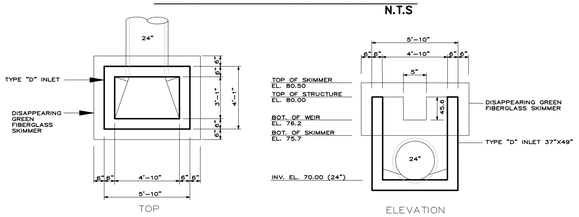
OUTFALLL-1
MES
N: 1579540.75
E: 476091.06
INV EL. = 68.00

POND	STRUCTURE	BOT	SE	PIPE SIZE (IN)	DIMENSION		
					A (FT)	B (FT)	C (FT)
CFX	MES-1	74.0	73.39	36	4.84	4.00	7.50



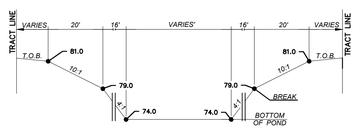
MES-1 CFX SUMP DETAIL

N.T.S



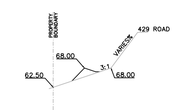
CS-1 CFX POND CONTROL STRUCTURE

N.T.S

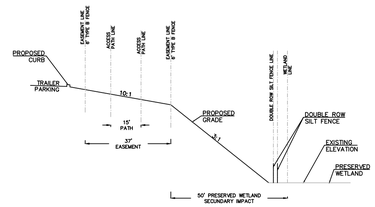


TYPICAL CFX PROPOSED POND CROSS-SECTION

N.T.S

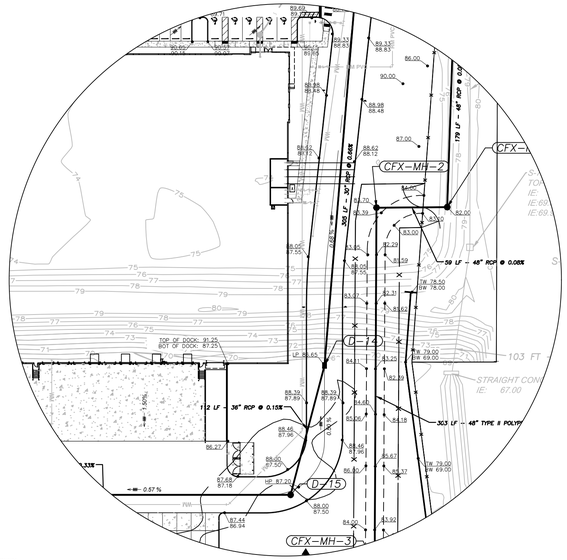


CROSS-SECTION A-A



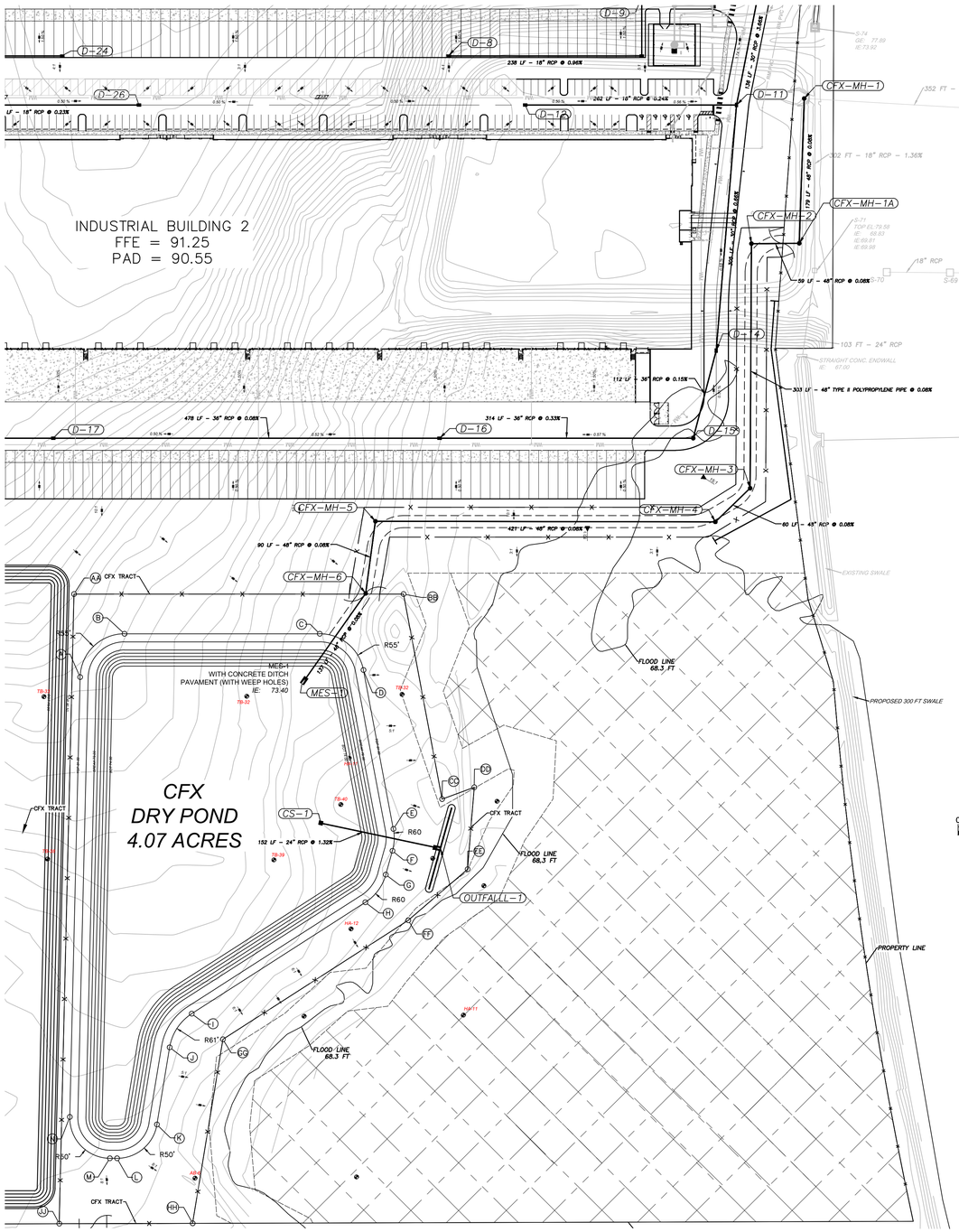
CROSS-SECTION B-B

N.T.S



DETAIL A (CFX ACCESS ENTRANCE)

N.T.S



BlueScope Properties Group

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DAVE SCHMITT ENGINEERING, INC.
12301 LAKE UNDERHILL ROAD
SUITE 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

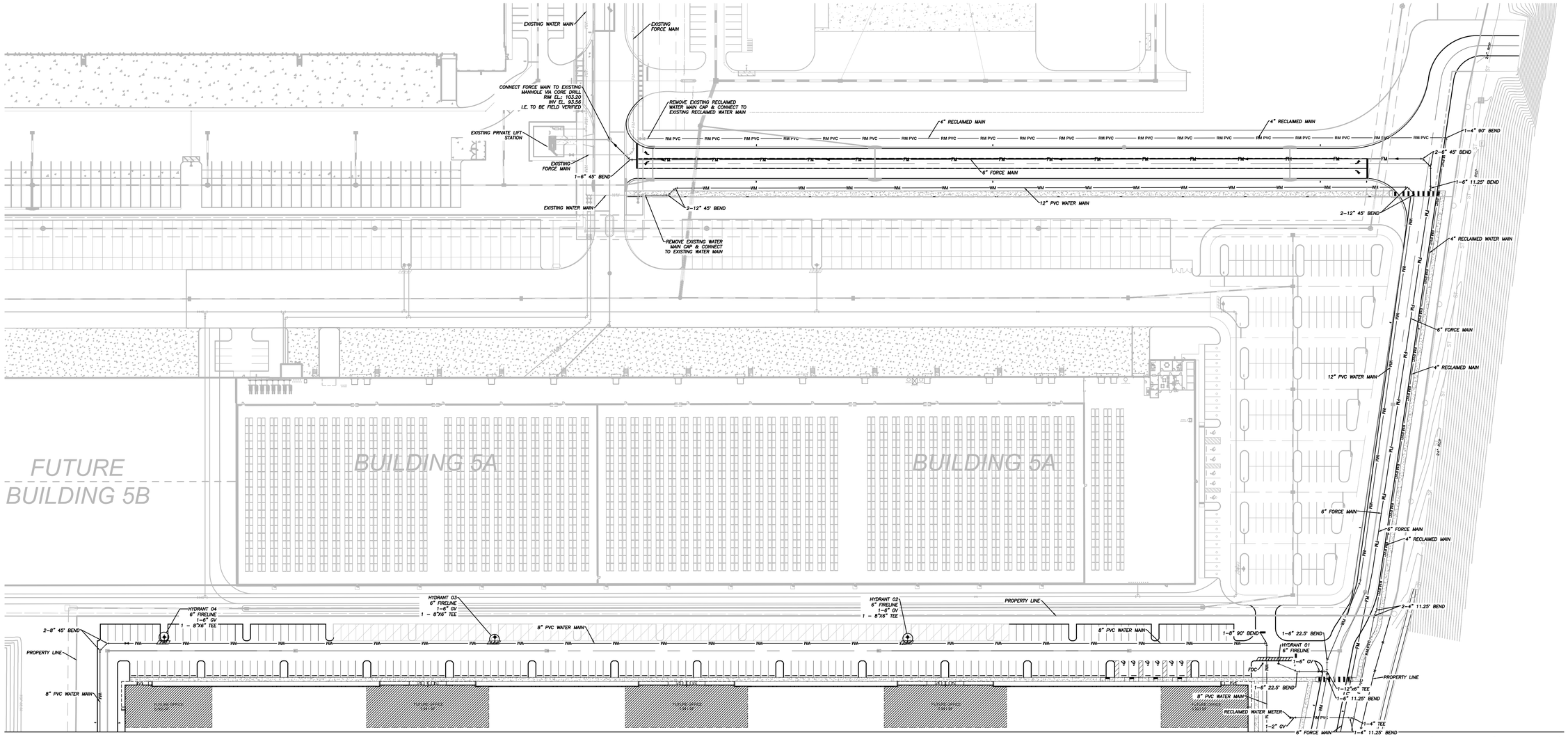
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

CFX POND PLAN

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 80'
SHEET: 18 OF 33



MATCHLINE - SHEET 20/33

LEGEND

DESCRIPTION	PROPOSED
SANITARY SEWER SYSTEM	
STORM SEWER SYSTEM	
WATER SYSTEM	
FIRE HYDRANT	
RECLAIMED WATER SYSTEM	

0 30' 60' 120'

SCALE: 1" = 60'

NOTE:

IF SPECIFYING HP STORM SPECIFICALLY

ADS HP STORM PROFILE WALL POLYPROPYLENE 12- THROUGH 60-INCH PIPE SHALL MEET ASTM F2881 OR AASHTO M330. MANUFACTURER OF PROLYPROPYLENE PIPE MUST MEET THE REQUIREMENTS OF FDOT SECTION 948-7.2 (CLASS II 100Yr DSL) AND LISTED ON THE FDOT APPROVED PRODUCERS LIST FOR CLASS II CORRUGATED POLYPROPYLENE PIPE 12"-60".

IF SPECIFYING RCP AND ALLOWING HP STORM

ADS HP STORM PROFILE WALL PROLYPROPYLENE IS AN APPROVED EQUAL TO CLASS III RCP. ADS HP STORM PROFILE WALL PROLYPROPYLENE 12- THROUGH 60- INCH PIPE SHALL MEET ASTM F2881 OR AASHTO M330. MANUFACTURER OF PROLYPROPYLENE PIPE MUST MEET THE REQUIREMENTS OF FDOT SECTION 948-7.2 (CLASS II 100Yr DSL) AND LISTED ON THE FDOT APPROVED PRODUCERS LIST FOR CLASS II CORRUGATED PROLYPROPYLENE PIPE 12"-60".

IF NOT SPECIFYING A PIPE TYPE SPECIFICALLY AND ALLOWING BOTH RCP AND HP Storm

ALL STORM PIPE TO BE ADS HP STORM OR RCP CLASS III

- ADS HP STORM PROFILE PROLYPROPYLENE 12- THROUGH 60-INCH PIPE SHALL MEET ASTM F2881 OR AASHTO M330. MANUFACTURER OF PROLYPROPYLENE PIPE MUST MEET THE REQUIREMENTS OF FDOT SECTION 948-7.2 (CLASS II 100Yr DSL) AND LISTED ON THE FDOT APPROVED PRODUCERS LIST FOR CLASS II CORRUGATED PROLYPROPYLENE PIPE 12"-60".
- INSERT YOUR STANDARD SPEC NOTE FOR RCP.

POST INSTALLATION INSPECTION NOTE

- ALL STORM PIPE TO BE POST INSTALLATION INSPECTED PER FDOT SECTION 430-4.8 (PIPE INSPECTION).
- ADDITIONAL INFORMATION ON PIPE INSPECTION, EVALUATION & REPAIR CAN BE FOUND IN THE FDOT CONSTRUCTION PRODUCTS ADMINISTRATION MANUAL UNDER SECTION 8.13.

BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

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12301 LAKE UNDERHILL ROAD
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407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

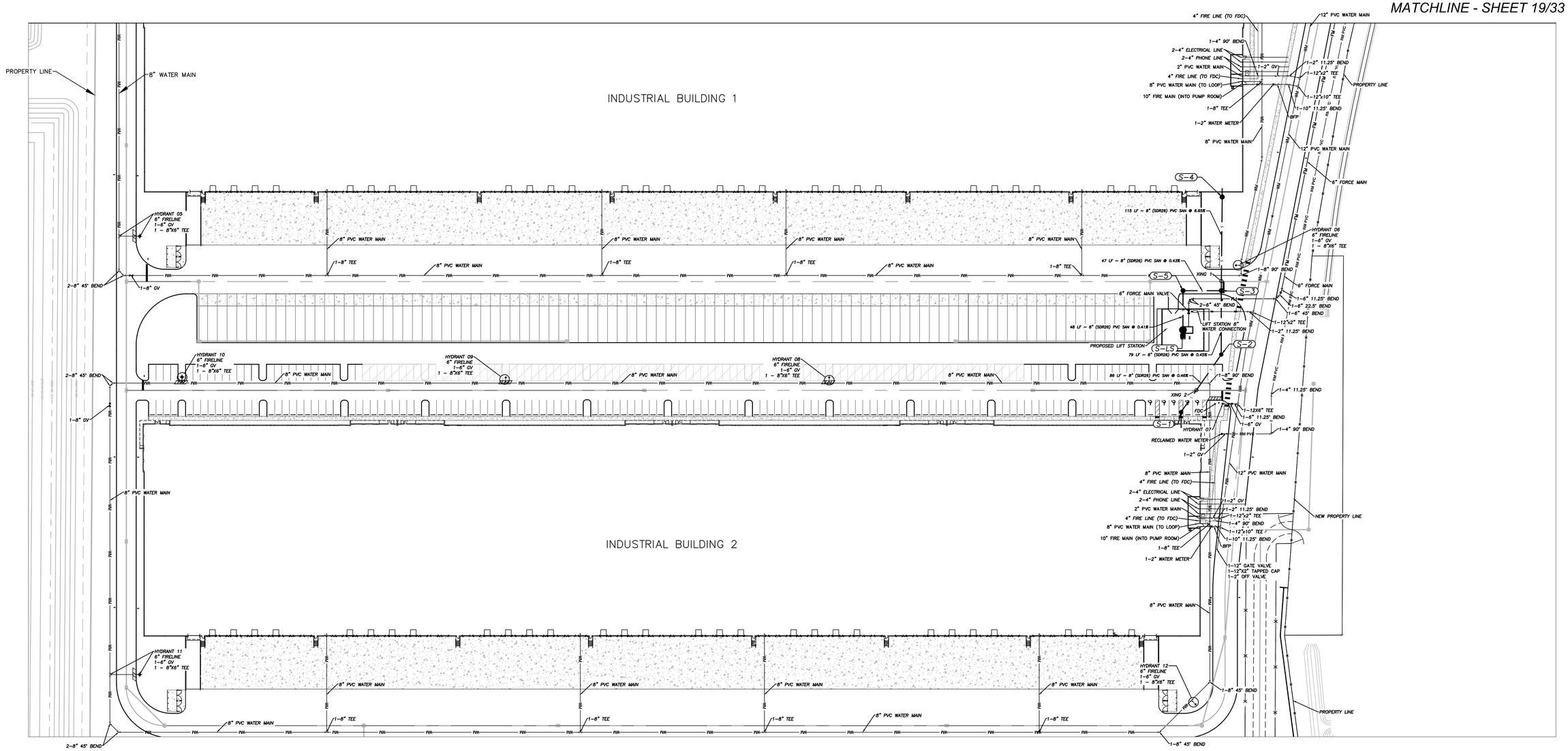
UTILITY PLAN - 1

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 60'
SHEET: 19 OF 33

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MATCHLINE - SHEET 19/33



LEGEND

DESCRIPTION	PROPOSED
SANITARY SEWER SYSTEM	
STORM SEWER SYSTEM	
WATER SYSTEM	
FIRE HYDRANT	
RECLAIMED WATER SYSTEM	

0 30' 60' 120'
SCALE: 1" = 60'

NOTE:

IF SPECIFYING HP STORM SPECIFICALLY

ADS HP STORM PROFILE WALL POLYPROPYLENE 12- THROUGH 60-INCH PIPE SHALL MEET ASTM F2881 OR AASHTO M330. MANUFACTURER OF PROLYPROPYLENE PIPE MUST MEET THE REQUIREMENTS OF FDOT SECTION 948-7.2 (CLASS II 100Yr DSL) AND LISTED ON THE FDOT APPROVED PRODUCERS LIST FOR CLASS II CORRUGATED POLYPROPYLENE PIPE 12"-60".

IF SPECIFYING RCP AND ALLOWING HP STORM

ADS HP STORM PROFILE WALL PROLYPROPYLENE IS AN APPROVED EQUAL TO CLASS III RCP. ADS HP STORM PROFILE WALL PROLYPROPYLENE 12- THROUGH 60- INCH PIPE SHALL MEET ASTM F2881 OR AASHTO M330. MANUFACTURER OF PROLYPROPYLENE PIPE MUST MEET THE REQUIREMENTS OF FDOT SECTION 948-7.2 (CLASS II 100Yr DSL) AND LISTED ON THE FDOT APPROVED PRODUCERS LIST FOR CLASS II CORRUGATED PROLYPROPYLENE PIPE 12"-60".

IF NOT SPECIFYING A PIPE TYPE SPECIFICALLY AND ALLOWING BOTH RCP AND HP Storm

ALL STORM PIPE TO BE ADS HP STORM OR RCP CLASS III

- ADS HP STORM PROFILE PROLYPROPYLENE 12- THROUGH 60-INCH PIPE SHALL MEET ASTM F2881 OR AASHTO M330. MANUFACTURER OF PROLYPROPYLENE PIPE MUST MEET THE REQUIREMENTS OF FDOT SECTION 948-7.2 (CLASS II 100Yr DSL) AND LISTED ON THE FDOT APPROVED PRODUCERS LIST FOR CLASS II CORRUGATED PROLYPROPYLENE PIPE 12"-60".
- INSERT YOUR STANDARD SPEC NOTE FOR RCP.

POST INSTALLATION INSPECTION NOTE

- ALL STORM PIPE TO BE POST INSTALLATION INSPECTED PER FDOT SECTION 430-4.8 (PIPE INSPECTION).
- ADDITIONAL INFORMATION ON PIPE INSPECTION, EVALUATION & REPAIR CAN BE FOUND IN THE FDOT CONSTRUCTION PRODUCTS ADMINISTRATION MANUAL UNDER SECTION 8.13.

SANITARY STRUCTURE DATA

S-1 SANITARY MANHOLE
N: 1580434.63
E: 476378.10
TOP EL: 89.49
NE INV EL: 81.25

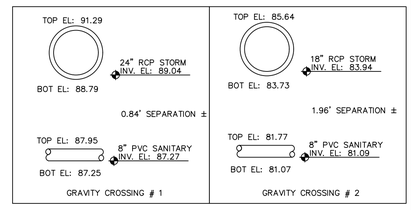
S-2 SANITARY MANHOLE
N: 1580505.42
E: 476427.46
TOP EL: 93.30
SW INV EL: 80.85
N INV EL: 80.75

S-3 SANITARY MANHOLE
N: 1580584.06
E: 476427.46
TOP EL: 95.03
W INV EL: 80.30
N INV EL: 86.53
S INV EL: 80.40

S-4 SANITARY CLEANOUT
N: 1580699.36
E: 476428.64
TOP EL: 100.50
S INV EL: 94.20

S-5 SANITARY MANHOLE
N: 1580583.98
E: 476380.47
TOP EL: 95.70
E INV EL: 80.10
S INV EL: 80.00

S-LS LIFT STATION
N: 1580535.60
E: 476380.30
TOP EL: 96.45
N INV EL: 79.80



BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

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12301 LAKE UNDERHILL ROAD
SUITE 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

UTILITY PLAN - 2

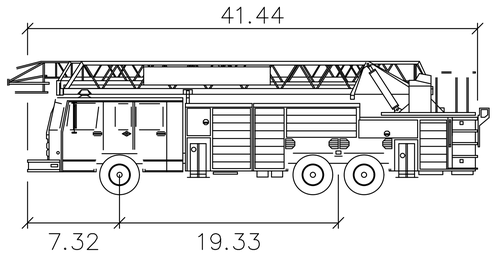
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 60'
SHEET: 20 OF 33

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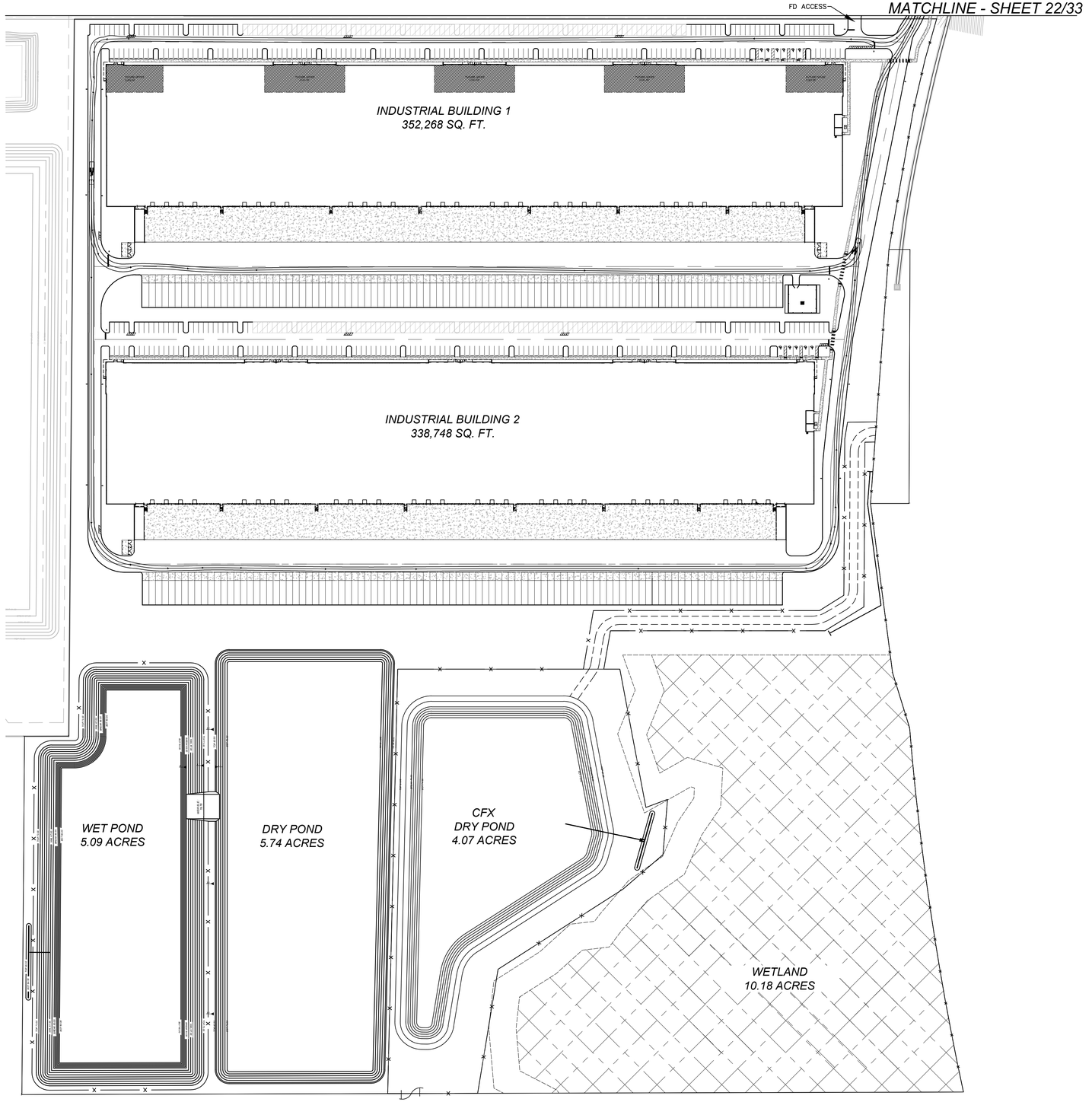
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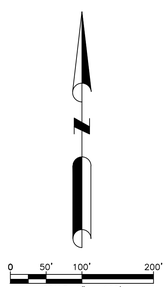
1. *FIRE DEPARTMENT ACCESS AND WATER SUPPLY SHALL COMPLY WITH NFPA 1 (2021 EDITION) AND FFPC (7TH EDITION).*
2. *THE NUMBER AND PLACEMENT OF REQUIRED FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH NFPA 1 (2021 EDITION) AND FFPC (7TH EDITION).*
3. *ALL ROADWAYS AND FIRE HYDRANTS SHALL BE IN PLACE BEFORE BUILDING CONSTRUCTION MAY BEGIN.*
4. *FIRE HYDRANTS SHALL BE MARKED WITH BLUE ROAD REFLECTOR.*
5. *BUILDING WILL BE REQUIRED TO HAVE AN AUTOMATIC FIRE SPRINKLER SYSTEM.*
6. *BUILDING MUST BE MONITORED BY AN AUTOMATIC FIRE ALARM SYSTEM.*
7. *A LOCK BOX MUST BE PROVIDED NEAR THE FRONT DOOR.*



APOPKA FIRE TRUCK

Width	: 8.00
Track	: 8.50
Lock to Lock Time	: 6.00
Steering Angle	: 45.0





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Certification of Authorization #27471

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

FIRE TRUCK ROUTING PLAN

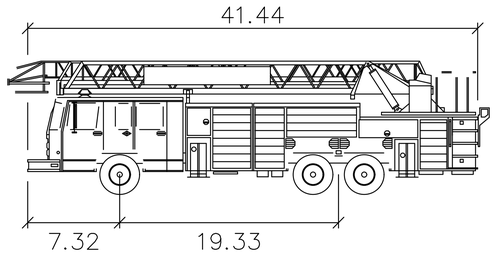
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023	
PROJECT NO.: ANC-7	
DRAWN BY: DM	
CHECKED BY: DMS	
SCALE: 1" = 100'	
SHEET: 21 OF 33	

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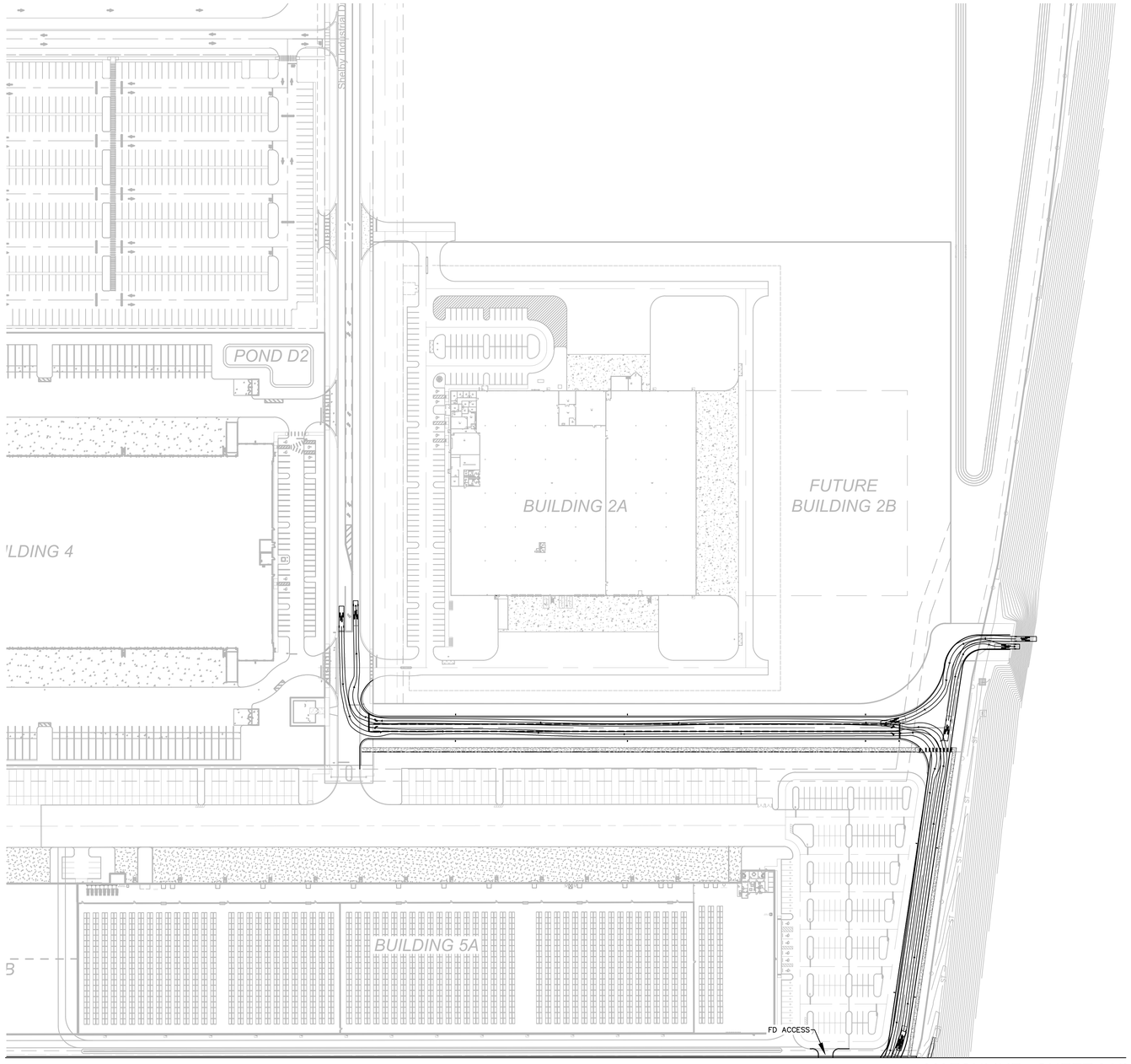
NOTES

1. ***FIRE DEPARTMENT ACCESS AND WATER SUPPLY SHALL COMPLY WITH NFPA 1 (2021 EDITION) AND FFPC (7TH EDITION).***
2. ***THE NUMBER AND PLACEMENT OF REQUIRED FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH NFPA 1 (2021 EDITION) AND FFPC (7TH EDITION).***
3. ***ALL ROADWAYS AND FIRE HYDRANTS SHALL BE IN PLACE BEFORE BUILDING CONSTRUCTION MAY BEGIN.***
4. ***FIRE HYDRANTS SHALL BE MARKED WITH BLUE ROAD REFLECTOR.***
5. ***BUILDING WILL BE REQUIRED TO HAVE AN AUTOMATIC FIRE SPRINKLER SYSTEM.***
6. ***BUILDING MUST BE MONITORED BY AN AUTOMATIC FIRE ALARM SYSTEM.***
7. ***A LOCK BOX MUST BE PROVIDED NEAR THE FRONT DOOR.***

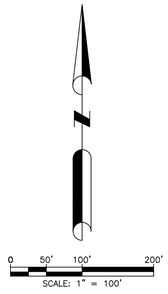


APOPKA FIRE TRUCK

Width	: 8.00
Track	: 8.50
Lock to Lock Time	: 6.00
Steering Angle	: 45.0



MATCHLINE - SHEET 21/33



BlueScope Properties Group

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Certification of Authorization #27471

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

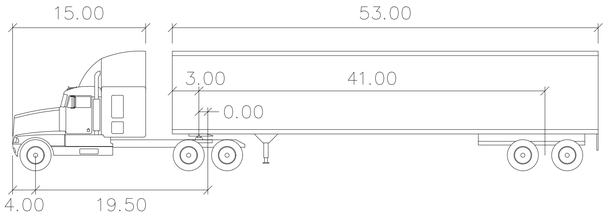
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

OFFSITE FIRE TRUCK ROUTING PLAN

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

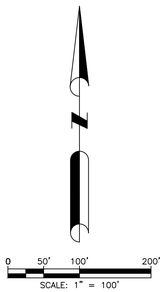
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PROJECT NO.: ANC-7	
DRAWN BY: DM	
CHECKED BY: DMS	
SCALE: 1" = 100'	
SHEET: 22 OF 33	

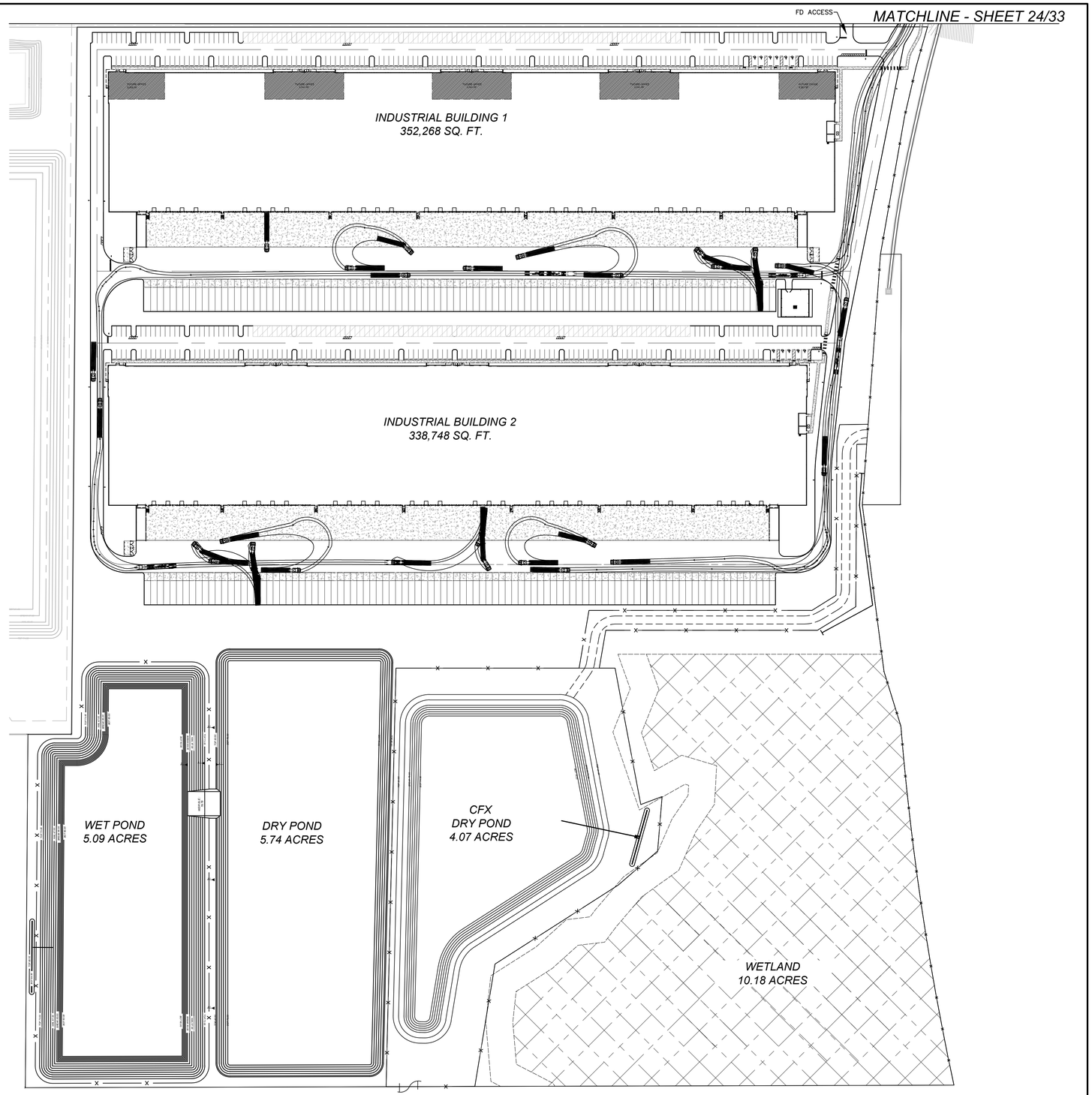
F:\ANC7\CAD\Planset\Final\21-22 FIRE TRUCK ROUTING PLAN.dwg,7/21/2023 4:20:17 PM



WB–62FL

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		





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Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

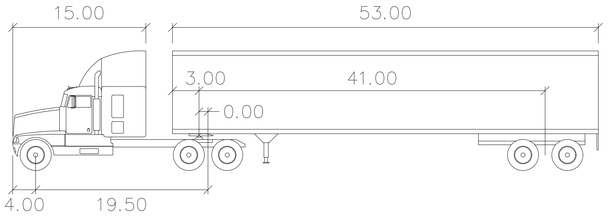
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

LARGE TRUCK ROUTING PLAN

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

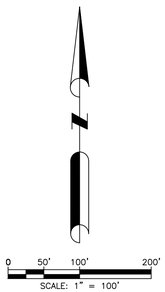
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PROJECT NO.: ANC-7	
DRAWN BY: DM	
CHECKED BY: DMS	
SCALE: 1" = 100'	
SHEET: 23 OF 33	

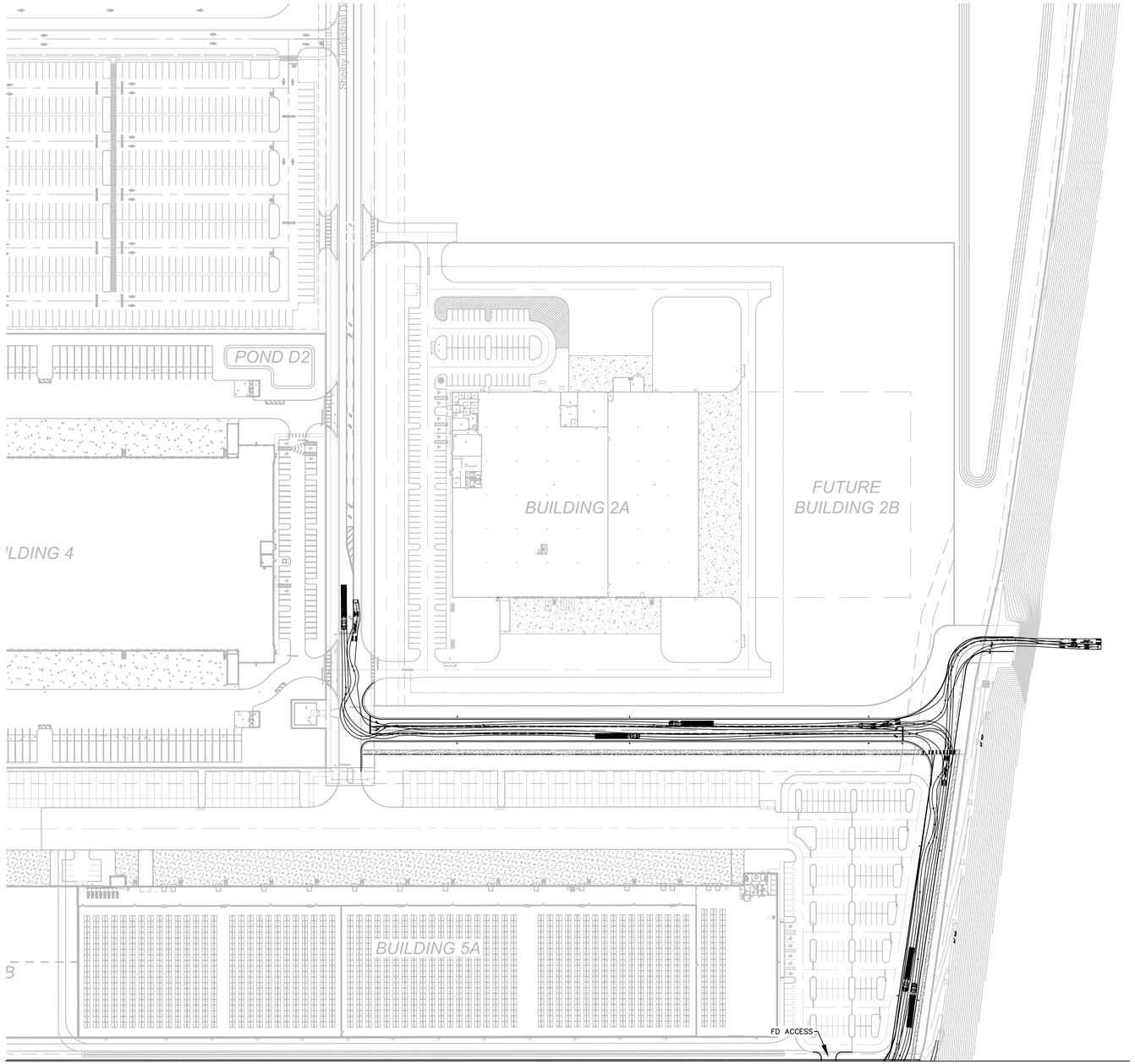
F:\ANC7\CAD\Planset\Final\23-24 LARGE TRUCK ROUTING PLAN.dwg,7/21/2023 4:27:01 PM



WB–62FL

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		





MATCHLINE - SHEET 23/33

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

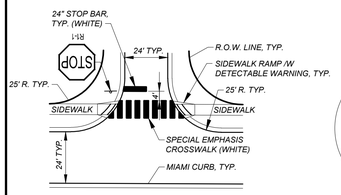
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

OFFSITE LARGE TRUCK ROUTING PLAN

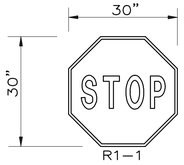
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023	
PROJECT NO.: ANC-7	
DRAWN BY: DM	
CHECKED BY: DMS	
SCALE: 1" = 100'	
SHEET: 24 OF 33	

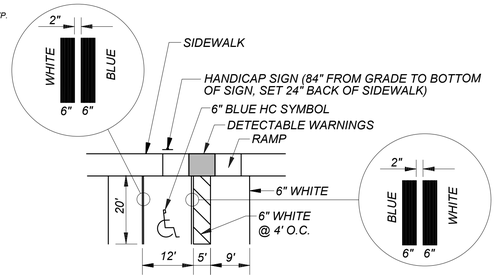
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TYPICAL INTERSECTION SIGNING & STRIPING DETAIL



TYPICAL STOP SIGN



NOTE:
ALL STRIPING SHALL BE THERMOPLASTIC.

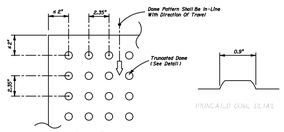
TYPICAL HANDICAP PARKING STRIPING PLAN



NO PARKING ON STREET SIGN DETAIL
NTS

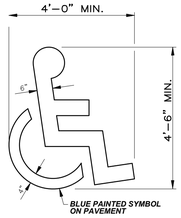


TYPICAL SPEED LIMIT SIGN

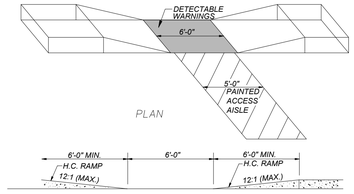


ALL SIDEWALK CURB RAMPS SHALL HAVE "CAST IN PLACE" DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES (610 mm) FROM THE BACK OF CURB IN ACCORDANCE WITH F.D.O.T. INDEX 522-002.

CURB RAMP DETECTABLE WARNING



INTERNATIONAL HANDICAP SYMBOL



HANDICAP RAMP DETAIL



FIRE LANE SIGN
NTS

1. SIGNS SHALL BE TWELVE (12) INCHES WIDE BY EIGHTEEN (18) INCHES IN HEIGHT, WHITE WITH TWO-INCH HIGH RED LETTERS NOT LESS THAN ONE-HALF INCH WIDE TO READ "NO PARKING FIRE LANE BY ORDER OF THE FIRE DEPARTMENT".
2. SIGNS SHALL BE FREESTANDING, DOUBLE FACED, SPACED NOT GREATER THAN 60 FEET APART.
3. SIGNS SHALL BE MOUNTED ON METAL POSTS, NOT LESS THAN TWO (2) INCHES IN SIZE WITH BOTTOM OF SIGN NOT LESS THAN SEVEN (7) FEET FROM GRADE TO BOTTOM OF SIGN.
4. WHERE A CURB IS PROVIDED, FOUR (4) INCHES OF CURB TOP AND FACE TO BE TRAFFIC YELLOW (F.D.O.T. TRAFFIC RATED PAVEMENT PAINT). STRIPES FOUR (4) INCHES WIDE EXTENDING OUTWARD TO A WIDTH OF FOUR (4) FEET FROM CURB WITH TWO (2) FEET BETWEEN EACH STRIPE. STRIPING TO BE TRAFFIC YELLOW F.D.O.T. TRAFFIC RATED PAVEMENT PAINT.
5. LETTERS NOT LESS THAN EIGHTEEN (18) INCHES IN HEIGHT AND NOT LESS THAN FOUR INCHES IN WIDTH WITHIN THE STRIPING. LETTERING TO READ "NO PARKING – FIRE LANE". LETTERING TO BE TRAFFIC YELLOW F.D.O.T. TRAFFIC RATED PAVEMENT PAINT.
6. SIGNS AND PAINTING ARE TO BE MAINTAINED BY THE RESPONSIBLE PARTY OF THE PROPERTY.



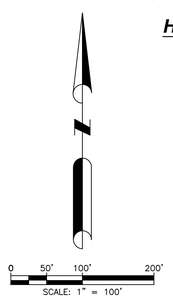
FIRE LANE STRIPING

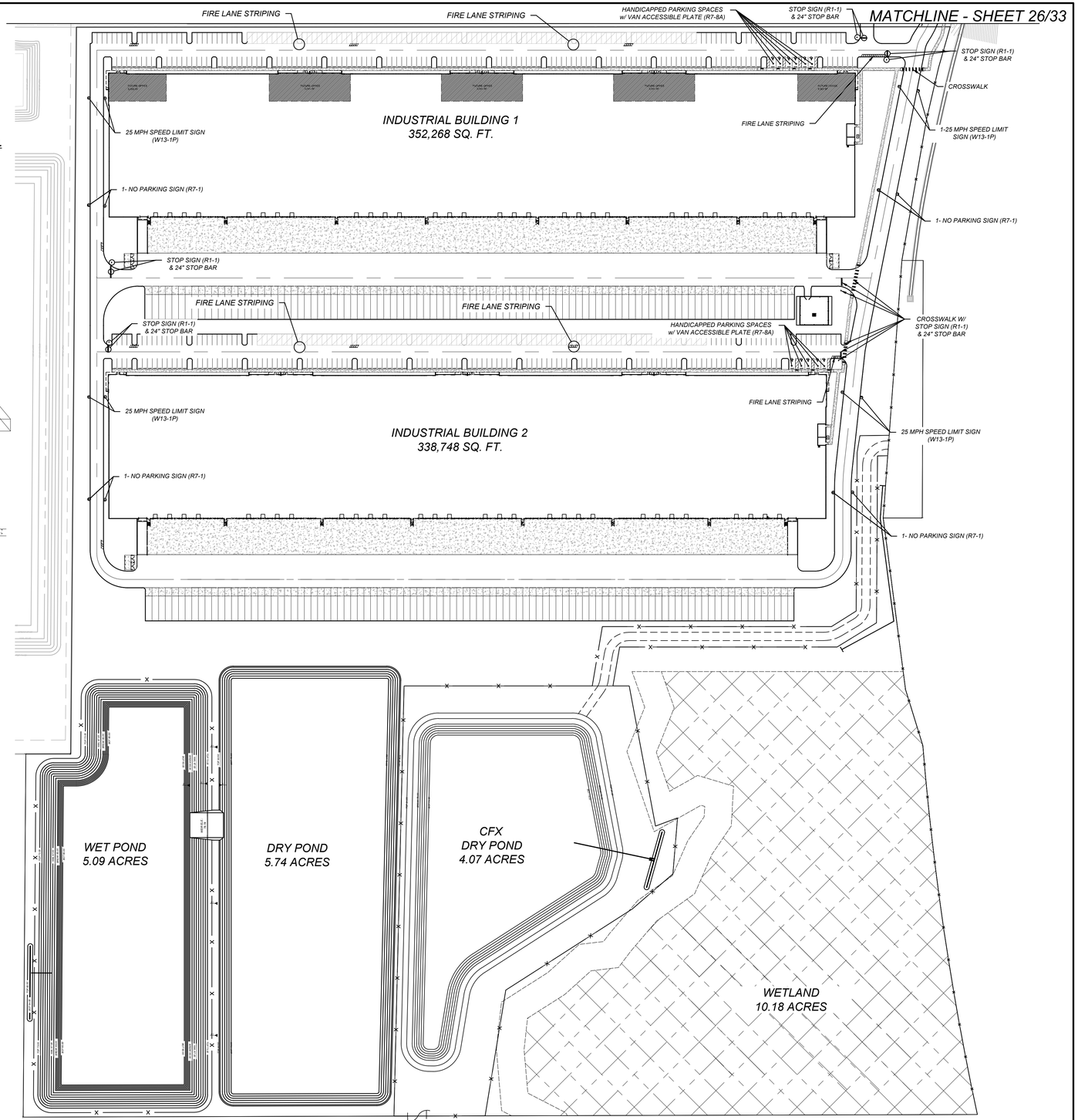
NOTE:
A BLUE REFLECTIVE PAVEMENT MARKER (RPM) SHALL BE PLACED IN THE CENTER OF THE TRAVELED LANE OPPOSITE EACH FIRE HYDRANT. ALL RPM'S SHALL BE CLASS B PER FDOT INDEX 17352.



"VAN ACCESSABLE" PLATE

HANDICAP SIGN





BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

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407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

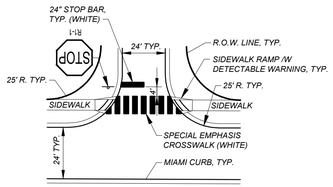
SIGNING & STRIPING PLAN

MID-FLORIDA SOUTH LOGISTICS PARK

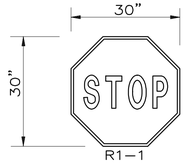
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 100'
SHEET: 25 OF 33

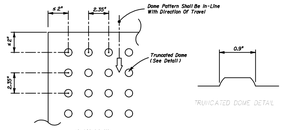
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TYPICAL INTERSECTION SIGNING & STRIPING DETAIL



TYPICAL STOP SIGN

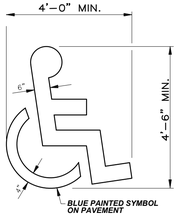


ALL SIDEWALK CURB RAMPS SHALL HAVE "CAST IN PLACE" DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES (610 mm) FROM THE BACK OF CURB IN ACCORDANCE WITH F.D.O.T. INDEX 522-002.

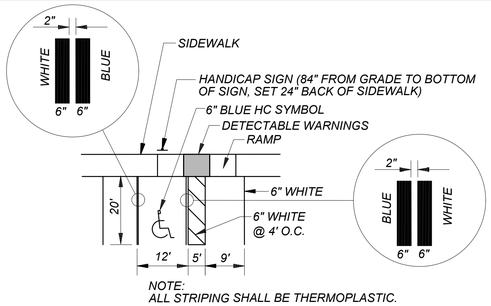
CURB RAMP DETECTABLE WARNING



FIRE LANE SIGN
NTS



INTERNATIONAL HANDICAP SYMBOL



NOTE:
ALL STRIPING SHALL BE THERMOPLASTIC.

TYPICAL HANDICAP PARKING STRIPING PLAN



NO PARKING ON STREET SIGN DETAIL
NTS

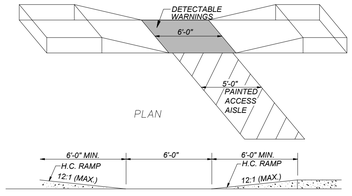


TYPICAL SPEED LIMIT SIGN

1. SIGNS SHALL BE TWELVE (12) INCHES WIDE BY EIGHTEEN (18) INCHES IN HEIGHT, WHITE WITH TWO-INCH HIGH RED LETTERS NOT LESS THAN ONE-HALF INCH WIDE TO READ "NO PARKING FIRE LANE BY ORDER OF THE FIRE DEPARTMENT".
2. SIGNS SHALL BE FREESTANDING, DOUBLE FACED, SPACED NOT GREATER THAN 60 FEET APART.
3. SIGNS SHALL BE MOUNTED ON METAL POSTS, NOT LESS THAN TWO (2) INCHES IN SIZE WITH BOTTOM OF SIGN NOT LESS THAN SEVEN (7) FEET FROM GRADE TO BOTTOM OF SIGN.
4. WHERE A CURB IS PROVIDED, FOUR (4) INCHES OF CURB TOP AND FACE TO BE TRAFFIC YELLOW (F.D.O.T. TRAFFIC RATED PAVEMENT PAINT). STRIPES FOUR (4) INCHES WIDE EXTENDING OUTWARD TO A WIDTH OF FOUR (4) FEET FROM CURB WITH TWO (2) FEET BETWEEN EACH STRIPE. STRIPING TO BE TRAFFIC YELLOW F.D.O.T. TRAFFIC RATED PAVEMENT PAINT.
5. LETTERS NOT LESS THAN EIGHTEEN (18) INCHES IN HEIGHT AND NOT LESS THAN FOUR INCHES IN WIDTH WITHIN THE STRIPING. LETTERING TO READ "NO PARKING – FIRE LANE". LETTERING TO BE TRAFFIC YELLOW F.D.O.T. TRAFFIC RATED PAVEMENT PAINT.
6. SIGNS AND PAINTING ARE TO BE MAINTAINED BY THE RESPONSIBLE PARTY OF THE PROPERTY.



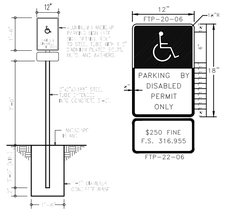
FIRE LANE STRIPING



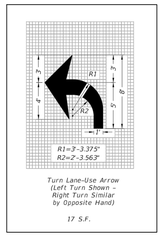
HANDICAP RAMP DETAIL



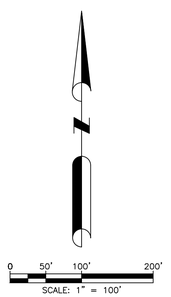
"VAN ACCESSABLE" PLATE

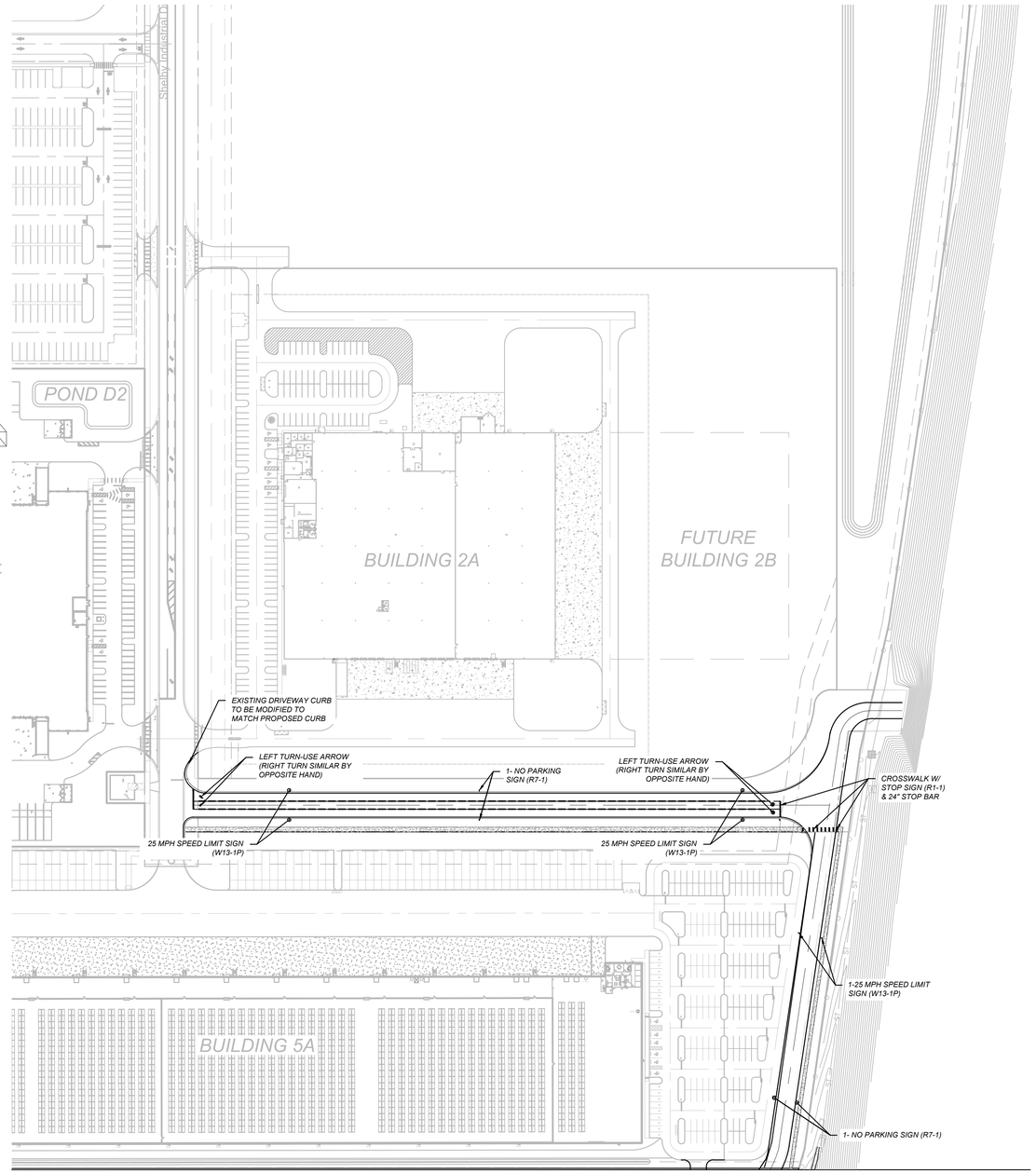


HANDICAP SIGN



NOTE:
A BLUE REFLECTIVE PAVEMENT MARKER (RPM) SHALL BE PLACED IN THE CENTER OF THE TRAVELED LANE OPPOSITE EACH FIRE HYDRANT. ALL RPM'S SHALL BE CLASS B PER FDOT INDEX 17352.





MATCHLINE - SHEET 25/33

BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

DAVE SCHMITT ENGINEERING, INC.
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Certification of Authorization #27471

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

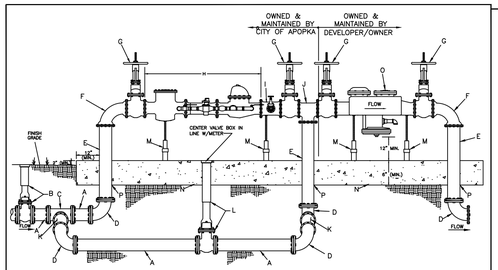
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

OFFSITE SIGNING & STRIPING PLAN

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: 1" = 100'
SHEET: 26 OF 33

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MATERIAL LIST

- A DUCTILE IRON PIPE (VARIOUS LENGTHS)
- B M.J. GATE VALVE W/VALVE BOX (SLIDE STYLE) MEGALUG JOINT RESTRAINTS
- C M.J. TEE MEGALUG JOINT RESTRAINTS
- D M.J. ELL MEGALUG JOINT RESTRAINTS
- E DUCTILE IRON FLANGED PIPE
- F FLANGED ELL (LONG RADIUS)
- G FLANGED O.S. & Y. VALVE
- H DUAL RANGE METER
- I (SIZE") x 4" FLANGED TEE
  4" x 2" TAPPED FLANGE
  2" x 2 1/2" BRASS NIPPLE
  2" GATE SCREW VALVE
  2" GALVANIZED PLUG
- J FLANGED TEE
- K (SIZE") x 30" D.I. PIPE STUB M.J. GATE VALVE W/VALVE BOX (SLIDE STYLE) & VALVE NUT LOCKING CAP MEGALUG JOINT RESTRAINTS (VALVE NUT LOCKING CAP PROVIDED BY OUC)
- M ADJUSTABLE BRACE (AS NEEDED)
- N 3000 PSI CONC. W/6X6 WWF (6" WIDE x 6" THICK MINIMUM) BY DEVELOPER
- O CITY OF APOPKA APPROVED REDUCED PRESSURE BACKFLOW PREVENTER
- Q ALL FLANGES, PIPES, VALVES AND APPURTENSES SHALL HAVE 316 S.S. HARDWARE

NOTES:

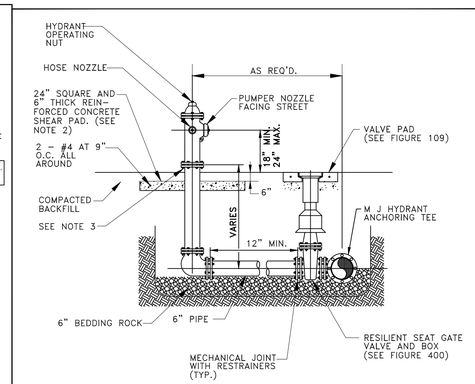
1. THE METER ASSEMBLY TO BE INSTALLED ON PRIVATE PROPERTY.
2. PROVIDE A MINIMUM 10 FT. EASEMENT ON EACH SIDE OF THE METER ASSEMBLY TO THE CITY OF APOPKA FOR OPERATION AND MAINTENANCE OF THE METER ASSEMBLY.
3. DEVELOPER INSTALL: OWNER/DEVELOPER WILL BE RESPONSIBLE FOR THE INSTALLATION OF THIS FIRE LINE MASTER METER ASSEMBLY UNDER THE INSPECTION OF CITY OF APOPKA PERSONNEL.
4. THE BACKFLOW PREVENTION DEVICE TO BE FURNISHED,INSTALLED AND MAINTAINED BY THE OWNER/DEVELOPER.THE BACKFLOW PREVENTION DEVICE WILL BE TESTED BY CERTIFIED BACKFLOW PREVENTION DEVICE TESTER AFTER INSTALLATION. A COPY OF THE TEST RESULTS WILL BE PROVIDED TO THE CITY OF APOPKA PUBLIC SERVICES DEPARTMENT.THE BACKFLOW PREVENTION DEVICE WILL NEED TO BE AN AMERICAN WATER WORKS ASSOCIATION (AWWA) APPROVED DEVICE.
5. THE METER ASSEMBLY WILL BE OWNED AND MAINTAINED BY THE CITY OF APOPKA.BOTH METERS WITHIN THE MASTER ASSEMBLY WILL NEED TO BE COMPATIBLE WITH THE CITY'S AUTOMATIC METER READING (AMR) SYSTEM. THE CITY'S AMR SYSTEM IS MANUFACTURED BY SENSUS METERING SYSTEMS,INC.

CONSTRUCTION NOTES:

6. PIPE, FITTINGS AND VALVE SIZES DETERMINED BY LARGE METER SIZE.
   4"X1.5" DRM W/4" BY-PASS
   6"X2" DRM W/6" BY-PASS
   8"X2" DRM W/8" BY-PASS
   10"X2" DRM W/10" BY-PASS
   MINIMUM SERVICE VALVE SIZE DETERMINED BY LARGE METER SIZE.

FIRE LINE MASTER METER ASSEMBLY W/ BY-PASS (TYPICAL)

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 500 C

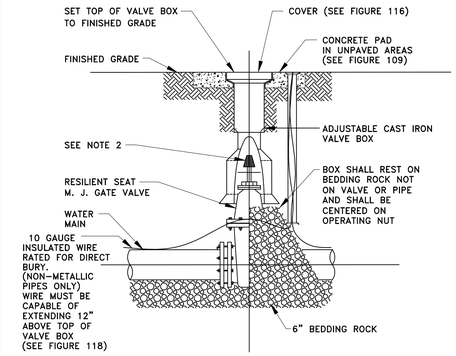


NOTES:

1. FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.
2. THE SHEAR PAD SHALL BE RECESSED SIX (6) INCHES BELOW THE FINISHED GRADE AND THE RECESSED SECTION SODDED.
3. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A TWELVE (12) INCH MINIMUM.
4. FIRE HYDRANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE CITY OF APOPKA UTILITIES DESIGN CONSTRUCTION STANDARDS MANUAL.

FIRE HYDRANT ASSEMBLY DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 402

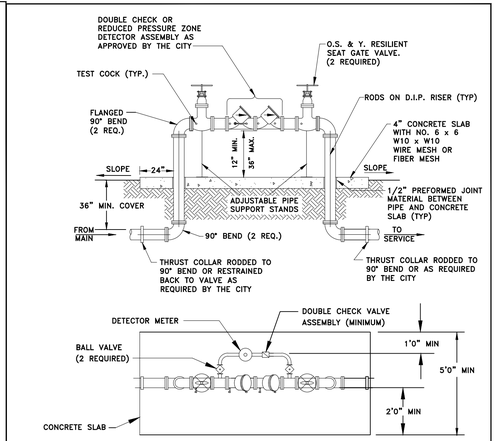


NOTES:

1. PVC EXTENSIONS MAY BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO WITHIN A 3 FEET BELOW FINISHED GRADE.

GATE VALVE AND BOX DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 400



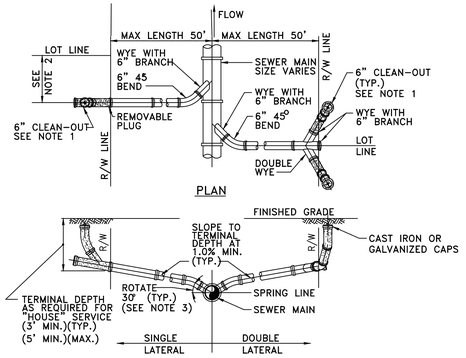
NOTES:

1. BYPASS METER MUST MEET AWWA STANDARD C700 OR C701.
2. METER MUST MEET AWWA STANDARD C707 AND TRANSMITTER MUST BE COMPATIBLE WITH THE CITY'S AMR SYSTEM.
3. ALL PIPE FITTINGS, MATERIALS, LABOR, AND APPURTENANCES SHALL BE SUPPLIED BY THE CONTRACTOR.
4. ALL PIPE AND FITTINGS TWO (2) INCHES AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL, OR BRASS.

ABOVE GROUND DEVICE WITH DETECTOR BY-PASS

2 INCH AND ABOVE ASSEMBLY

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 500 B

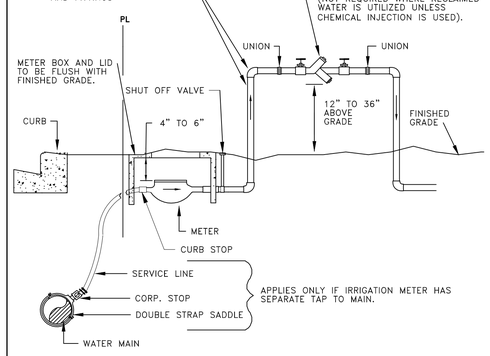


NOTES:

1. CLEAN-OUT (SHOWN SHADED) SHALL BE INSTALLED BY THE BUILDER IN ACCORDANCE WITH STANDARD PLUMBING CODE.
2. LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE.
3. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
4. RESIDENTIAL SERVICES SHALL BE 4 INCHES & NON-RESIDENTIAL SERVICES SHALL BE 6 INCHES IN DIAMETER AS A MINIMUM.
5. GALVANIZED, OR CAST IRON CLEAN-OUT CAP SHALL BE USED ON THE STUBOUT FOR EACH SERVICE.
6. LATERAL SHALL BE MARKED WITH AN "S" STAMPED OR CUT IN THE CURB.

SERVICE LATERAL DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 204

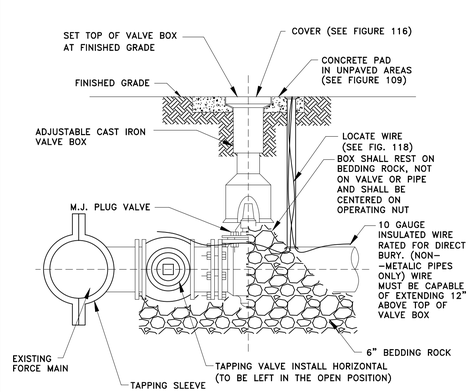


NOTES:

1. A POSITIVE DIELECTRIC CONNECTION SHALL BE MADE BETWEEN ALL GALVANIZED AND BRASS COMPONENTS.
2. METER SHALL BE INSTALLED JUST INSIDE THE ROW LINE OR PROPERTY LINE AND IN NO CASE SHALL IT BE INSTALLED IN THE SIDEWALK OR OTHER PAVED AREAS.
3. DOUBLE CHECK VALVES MAY BE USED AS LONG AS THEIR ARE NO CHEMICALS OR A WELL ON SITE.
4. A PVB DEVICE SHALL BE 12-INCHES MINIMUM ABOVE HIGHEST OUTLET OR SPRAYHEAD
5. ALL BACKFLOW PREVENTION DEVICES ARE TO BE AWWA APPROVED.

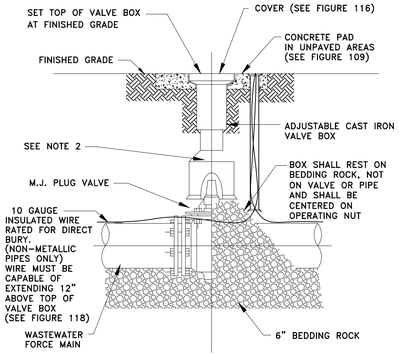
IRRIGATION METER AND DOUBLE CHECK VALVE OR REDUCED PRESSURE BACKFLOW PREVENTER

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 502



FORCE MAIN WET TAP TIE-IN DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 206



NOTES:

1. PVC EXTENSIONS MAY BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO WITHIN 3 FEET BELOW FINISHED GRADE.

PLUG VALVE AND BOX DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 400 A

BlueScope Properties Group

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Certification of Authorization #27471

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

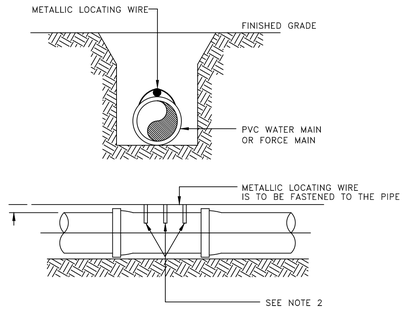
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

UTILITY DETAILS - 1

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: NONE
SHEET: 27 OF 33

F:\ANC7\CAD\Planset\Final\27-29 UTILITY DETAILS.dwg,6/6/2023 7:09:42 PM

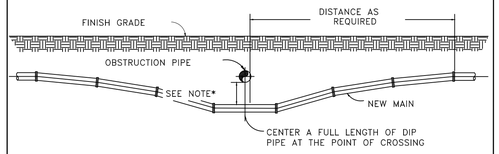


NOTES:

1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 AWG–SOLID CCS REINFORCED TRACER WIRE–INSULATED 30 MIL HDPE – 30 VOLT MFG. BY COPPERHEAD INDUSTRIES, LLC OR EQUAL) CAPABLE OF DETECTION BY A CABLE LOCATOR.
2. SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND ATTACHED WITH DUCT TAPE OR NYLON STRAPS AT 3 LOCATIONS PER JOINT. LOCATING WIRE SHALL TERMINATE AT THE TEST STATION BOX AS SHOWN IN FIG. 109.
3. BE CAPABLE OF EXTENDING 12" ABOVE TOP OF TEST STATION BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
4. SPLICES SHOULD BE MADE USING STANDARDS AND PRODUCTS DESIGNED FOR DIRECT BURIAL CONDUCTORS.
5. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED.

PVC PIPE LOCATING WIRE DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 118



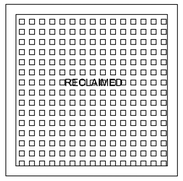
NOTES:

1. 18" MINIMUM CLEARANCE FOR WATER, SEWER AND RECLAIMED WATER MAIN CROSSINGS
2. 12" MINIMUM CLEARANCE REQUIRED FOR OTHER TYPE UTILITY CROSSINGS.
3. SEE ENCASEMENT DETAIL IF MINIMUM CLEARANCE CANNOT BE OBTAINED.

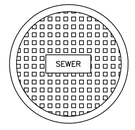
* CONSTRUCT UNIFORM PIPE DEFLECTION NOT TO EXCEED 75% OF MANUFACTURER RECOMMENDED MAXIMUM DEFLECTION PER PIPE JOINT

UTILITY CROSSING PIPE DEFLECTION DETAIL

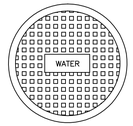
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 117



RECLAIMED WATER



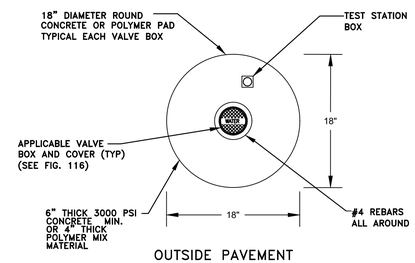
SEWER



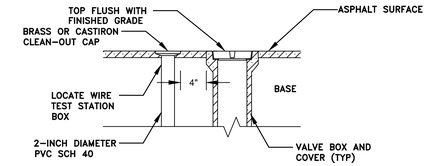
POTABLE WATER

TYPICAL VALVE BOX COVER DETAILS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 116



OUTSIDE PAVEMENT

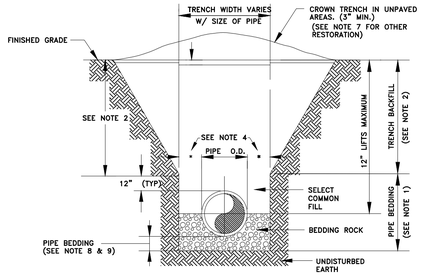


INSIDE PAVEMENT

VALVE IDENTIFICATION TAG
TO BE INSTALLED BY CITY
& PAID FOR BY DEVELOPER

VALVE BOX

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 109

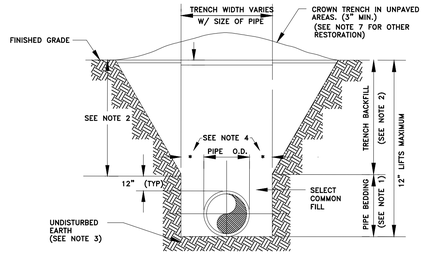


NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS PER AASHTO T–180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS PER AASHTO T–180.
3. USE OF TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING IF REQUIRED BY THE CITY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. THE CITY SHALL DETERMINE IN THE FIELD IF REMOVAL OF UNSUITABLE MATERIAL IS REQUIRED TO REACH A SUITABLE FOUNDATION.
9. ALL UNPAVED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINATE GRASS SPECIES.
10. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY RIGHT–OF–WAY, SHALL COMPLY WITH REQUIREMENTS OF RIGHT–OF–WAY UTILIZATION REGULATIONS.

TYPE "A" BEDDING AND OPEN-CUT DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 101

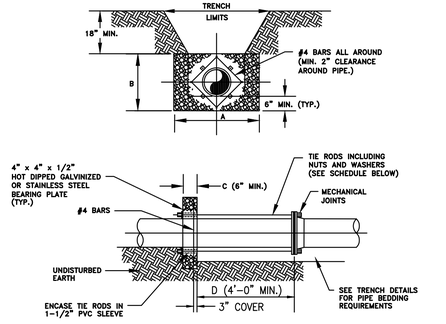


NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS PER AASHTO T–180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS TO AASHTO T–180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETERS LESS THAN 24", AND 24" FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.
8. SURFACE RESTORATION WITHIN CITY RIGHT–OF–WAY, SHALL COMPLY WITH REQUIREMENTS OF RIGHT–OF–WAY UTILIZATION REGULATIONS.
9. ALL UNPAVED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINATE GRASS SPECIES.

TYPE "B" BEDDING AND OPEN-CUT DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 100



NOTES:

1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 2500 P.S.I.
3. BEDDING, BACKFILL AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
6. DESIGN PRESSURE: 150 P.S.I.

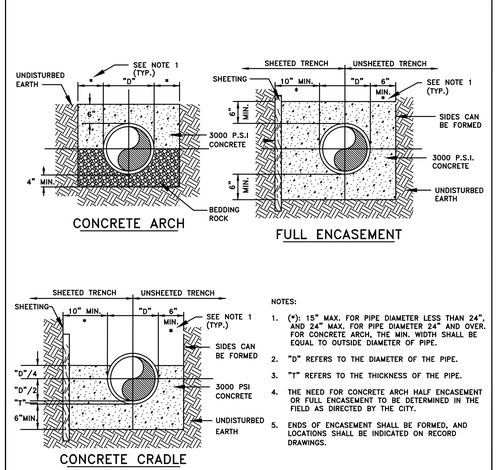
SCHEDULE OF DIMENSIONS AND MATERIALS *

PIPE SIZE (INCHES)	DIMENSIONS (FT.) A	B	C	D	TIE RODS REQ'D DIA.	NO.
6	2.0	2.0	1.0		3/4	2
8	2.5	2.5	1.0		3/4	2
10	3.5	3.0	1.0		3/4	4
12	5.0	3.0	1.0		3/4	4
16	6.0	4.0	1.5		3/4	4
20	8.0	5.0	1.5		3/4	6
24	9.0	6.0	1.5		3/4	8

NOTE: THRUST BLOCK AREAS TO BE COMPUTED ON BASIS OF 2,000 LBS. PER SQ. FT. SOIL RESTRAINT (1,500 MIN) BEARING. SEE NOTE 5
* TO BE COMPLETED BY ENGINEER.

WATER MAIN THRUST COLLAR DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 107



NOTES:

1. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND OVER. FOR CONCRETE ARCH, THE MIN. WIDTH SHALL BE EQUAL TO OUTSIDE DIAMETER OF PIPE.
2. "D" REFERS TO THE DIAMETER OF THE PIPE.
3. "T" REFERS TO THE THICKNESS OF THE PIPE.
4. THE NEED FOR CONCRETE ARCH HALF ENCASEMENT OR FULL ENCASEMENT TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
5. ENDS OF ENCASEMENT SHALL BE FORMED, AND LOCATIONS SHALL BE INDICATED ON RECORD DRAWINGS.

CONCRETE ARCH AND ENCASEMENT DETAILS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 102

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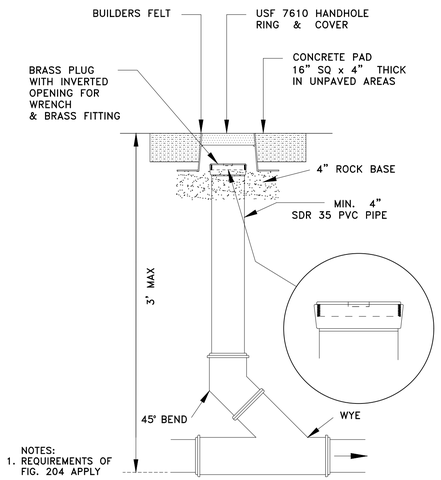
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

UTILITY DETAILS - 2

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: NONE
SHEET: 28 OF 33

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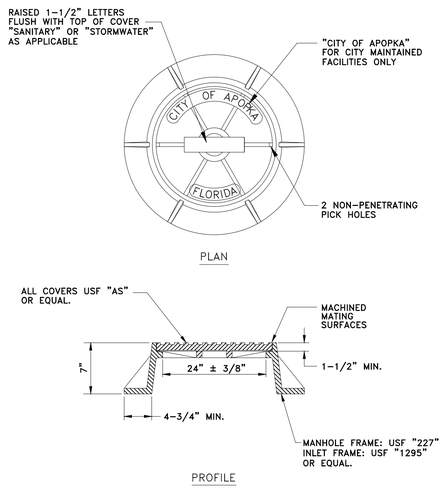


NOTES:
1. REQUIREMENTS OF FIG. 204 APPLY

SANITARY SEWER SERVICE TRAFFIC RATED CLEAN-OUT DETAIL

NTS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 205



NOTES:
1. MANHOLE FRAME AND COVER ARE TO BE TRAFIC BEARING RATED H-20, CLASS 30 MEETING ASTM A 48.

STANDARD MANHOLE FRAME AND COVER

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 202

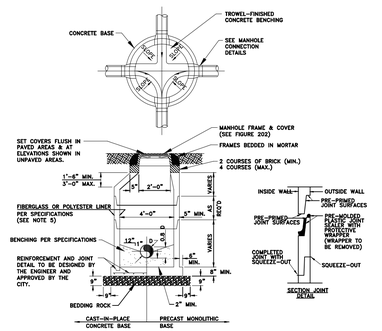
MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S). *	PIPE SIZE										
	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	48"
90° BEND	33	43	51	60							
45° BEND	14	18	22	25							
22-1/2° BEND	7	9	11	12							
11-1/4° BEND	4	5	6	6							
TEE**	1	7	24	44							
REDUCER (ONE SIZE SMALLER)		41	39	40							
DEAD END	74	96	115	136							

* ONLY RESTRAIN BRANCH PIPE FOR TEES. ONLY RESTRAIN LARGER PIPE FOR REDUCERS
** LENGTH ALONG RUN ASSUMED TO BE 18'

NOTES:
1. FITTINGS SHALL BE DUCTILE IRON RESTRAINED JOINT TYPE. FM FITTINGS TO BE LINED WITH PROTECTO 401.
2. INSTALL FULL LENGTHS OF PIPE WITH TOTAL LENGTH CONTAINING ONLY RESTRAINED JOINTS EQUAL TO OR GREATER THAN LENGTH SHOWN IN TABLE.
3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, FOR PVC WITH THE FOLLOWING ASSUMPTIONS:
   TYPE OF PIPE: PVC
   WORKING PRESSURE: 150 P.S.I.** ** FM = 100 P.S.I. / WM OR RWM = 150 P.S.I.
   SOIL DESIGNATION: SM(SAND SILT)
   LAYING CONDITIONS: S
6. FOR PIPE ENCASED IN POLYETHYLENE INCREASE THE GIVEN VALUE BY A FACTOR OF 1.5.
7. VALUES NOT LISTED IN THE TABLE TO BE COMPLETED BY THE ENGINEER.

RESTRAINED PIPE TABLE (PVC)

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 105



FORCE MAIN MANHOLE LINER*

DIAMETER (INCHES)	THICKNESS (INCHES) HEIGHT (FEET) 3-6	7-12	13-17	MATERIAL	MANUFACTURER
48					
60					
72					

* TO BE COMPLETED BY THE ENGINEER

NOTES:
1. MANHOLE SHOWN IS FOR SEWER SIZE 8" THRU 24". SEE SECTION 20.4 OF THE MANUAL FOR MANHOLE DIAMETER FOR SEWERS LARGER THAN 24".
2. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE CONNECTION DETAILS.
3. THE THICKNESS OF THE LINER SHALL BE 3/8" MINIMUM.
4. EACH BENCH WALL SHALL BE A MINIMUM OF 18 INCHES LONG FROM THE WALL OF THE MANHOLE TOWARD THE CENTER.
5. SANITARY SEWER MANHOLES MAY BE REQUIRED TO BE LINED IN ACCORDANCE WITH THE CITY OF APOPKA LIST OF APPROVED MATERIALS AND PRODUCTS AS DIRECTED BY THE CITY.

TYPICAL MANHOLE

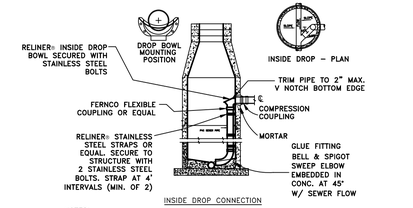
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 200

MINIMUM PRESSURE RATING									
PSI	DI FITTINGS		PIPE MATERIAL*			GATE VALVE**		FORCEMAIN*	
	≤24"	>24"	PVC	DI	HDPE	≤12"	>12"	PVC	HDPE
100								●	●
150			●		●		●		
200						●			
250		●		●					
350	●								

* PVC SHALL HAVE A MAXIMUM DIMENSION RATIO (DR) OF 18 AND HDPE SHALL BE MAX DR11. FORCEMAIN: PVC SHALL BE MAX DR18 UNLESS DESIGN REQUIRES OTHERWISE AND HDPE SHALL BE MAX DR17.
** BUTTERFLY VALVES SHALL BE CLASS 150B

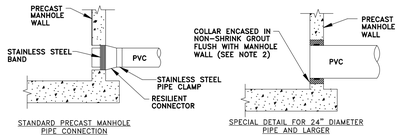
PIPE AND APPURTENANCES PRESSURE RATING

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JAUARY 2014	FIG. 110



INSIDE DROP CONNECTION

NOTES:
1. ALL INSIDE DROP CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP BOWL AS PRODUCED BY:
   RELINER-DURAN, INC.
   53 MT. ARCHER RD,
   LYME, CT 06371
   (860)434-0277 FAX: (860)434-3195 OR EQUAL.
2. SECURE DROP PIPE TO MANHOLE WALL WITH RELINER-DURAN, INC STAINLESS STEEL ADJUSTABLE CLAMPING BRACKETS.
3. FORCE MAIN RECEIVING MANHOLES MAY BE REQUIRED TO BE LINED IN ACCORDANCE WITH THE CITY OF APOPKA LIST OF APPROVED MATERIALS AND PRODUCTS AS DIRECTED BY THE CITY.



NOTES:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. THE CITY MAY APPROVE ALTERNATE WATERTIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.
3. AN INSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 24" OR MORE ABOVE THE OUTFLOW PIPE INVERT.
4. CONCRETE TO BE MINIMUM OF 3000 PSI.

MANHOLE CONNECTION DETAILS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 201

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Certification of Authorization #27471

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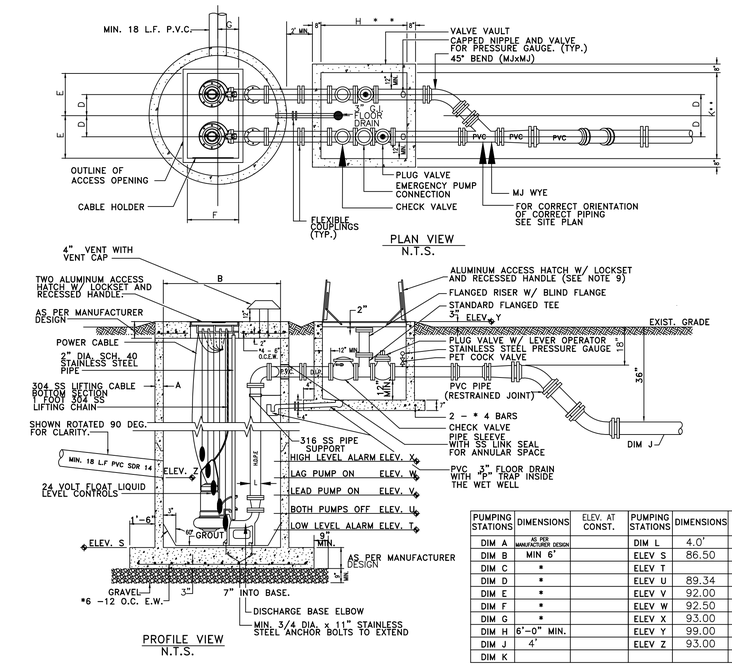
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

UTILITY DETAILS - 3

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: NONE
SHEET: 29 OF 33

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PUMPING STATIONS	DIMENSIONS	ELEV. AT CONST.	PUMPING STATIONS	DIMENSIONS	ELEV. AT CONST.
DIM A	AS PER MANUFACTURER DESIGN		DIM L	4.0'	
DIM B	MIN 6'		ELEV S	86.50	
DIM C	*		ELEV T		
DIM D	*		ELEV U	89.34	
DIM E	*		ELEV V	92.00	
DIM F	*		ELEV W	92.50	
DIM G	*		ELEV X	93.00	
DIM H	6'–0" MIN.		ELEV Y	99.00	
DIM J	4'		ELEV Z	93.00	
DIM K					

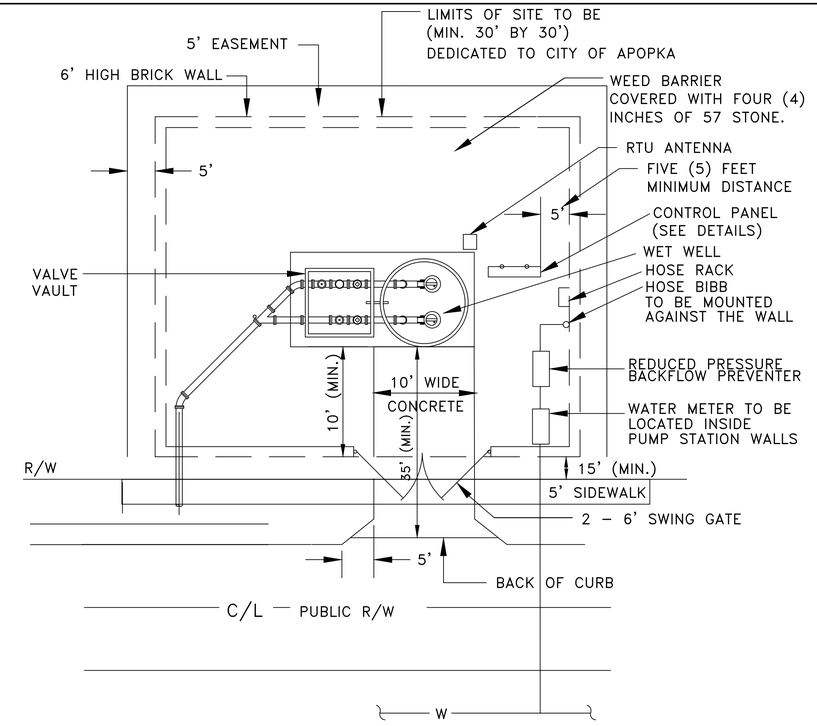
* PER PUMP MANUFACTURERS REQUIREMENT

GENERAL NOTES:

1. VALVE VAULT AND WET WELL LIDS SHALL BE COATED WITH 1 COAT OF TNEMEC SERIES 66, COLOR EN03, (2–3 MILS), FOLLOWED BY TOP COAT OF TNEMEC SERIES 73, COLOR EN05, (2–3 MILS) OR EQUAL.
2.A THE WET WELL SHALL BE CONSTRUCTED OF FIBERGLASS REINFORCED POLYESTER (RFP) AND MANUFACTURED FROM COMMERCIAL GRADE POLYESTER RESIN OR VINYL ESTER RESIN, WITH FIBERGLASS REINFORCEMENTS. THE WET WELL SHALL BE A ONE PIECE UNIT AND MANUFACTURED BY L.F. MANUFACTURE, INC. OR EQUAL.
2.B IN LIEU OF RFP THE WET WELL MAY BE CONSTRUCTED OF PRECAST CONCRETE HAVING A MINIMUM WALL THICKNESS OF 8 INCHES. THE INTERIOR WALLS SHALL BE LINED USING A HIGH DENSITY POLYETHYLENE PRODUCT AS MANUFACTURED BY AGRU SURE GRIP, OR EQUAL.
3. PIPING IN THE WET WELL TO BE HDPE WITH FUSED 45 DEGREES FITTINGS FROM WET WELL TO VALVE VAULT.
4. INTERIOR OF THE VALVE VAULT AND PIPING IN THE VALVE VAULT WITH ConSeal CS-55 (OR EQUAL), TWO COATS, 4 MILS EACH. PIPING SHALL BE COATED AFTER INSTALLATION.
5. VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE SPINDLES WITH MINIMUM CLEARANCES AS SHOWN FOR 6" DIAMETER PIPE AND SMALLER. CLEARANCES SHALL INCREASE AS REQUIRED FOR LARGER PIPE SIZES.
6. VALVE VAULT SHALL HAVE SEALED FLOOR AND DRAIN.
7. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE AND STAINLESS STEEL LINK SEAL.
8. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
9. WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE LOCK BRACKET. SIZE AS REQUIRED BY PUMP MANUFACTURER AND APPROVED BY THE CITY.
10. FLEXIBLE COUPLING SHALL BE SLEEVE TYPE, EPOXY COATED.
11. PUMPS SHALL BE: NP3127 SH 3 ~
MANUFACTURER: FLYGT ; MODEL: ADAPTIVE 249; DIA: 100 MM INLET; SPEED: 3495 RPM ; DISCHARGE SIZE: 3 IN.;
VOLTAGE: 460 V ; HZ.: ; PHASE: 3~ ; H.P.: 11 HP ; MIN. SOLID SIZE: IN.
12. OPERATING CONDITIONS SHALL BE 109 GPM AT 108 FEET TDH.
13. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE 316 STAINLESS STEEL.
14. "P" TRAP TO BE INSTALLED IN WET WELL.
15. ALL PUBLIC LIFT STATIONS SHALL BE EQUIPPED WITH SCADA SYSTEM.THE DEVELOPER SHALL PAY THE CITY COST OF THE UNIT.THE CITY WILL BE RESPONSIBLE FOR INSTALLATION.
16. ALL LIFT STATIONS SHALL BE FENCED WITH DECORATIVE STONE OR BRICK OR AS DIRECTED BY THE CITY.
17. ALL LIFT STATIONS SHALL HAVE A 10 FEET WIDE CONCRETE ACCESS DRIVEWAY, 35' LONG FROM EDGE OF WET WELL TO BACK OF CURB.
18. ENGINEER SHALL PROVIDE A SCALED (1" = 20' MIN.) SITE SPECIFIC DETAIL.

PUMP STATION DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 301



NOTES:

1. DRIVEWAY AND APRON SHALL BE SIX (6) INCH THICK, 3000 P.S.I. CONCRETE. WITH No.6X6 WIRE MESH OR FIBER MESH.
2. POWER TO THE PUMP STATION SHALL BE THROUGH UNDERGROUND CONDUIT FROM SUPPLY SOURCE IN RIGHT–OF–WAY.
3. GATE TO BE DECORATIVE BLACK POWDER COATED ALUMINUM W/PICKET SPACING = OR < 4"
4. WALLS ARE TO BE BRICK OR DECORATIVE STONE.
5. WET WELL LID MUST OPEN TOWARD CONTROL PANEL (HINGE SIDE TOWARD PANEL).
6. LIFT STATION WALL TO BE PLACED AT LEAST 15FT. BEHIND THE R/W LINE.

PUMP STATION TYPICAL SITE PLAN

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 300

BlueScope Properties Group

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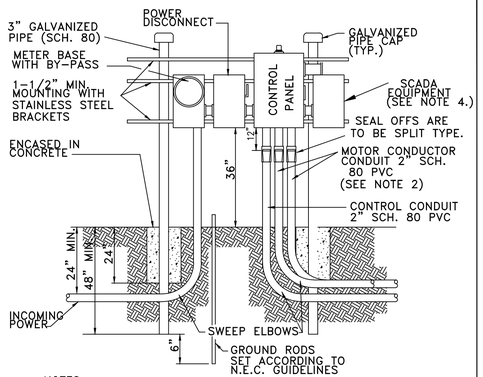
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

LIFT STATION PLAN - 1
MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
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SCALE: NONE
SHEET: 30 OF 33

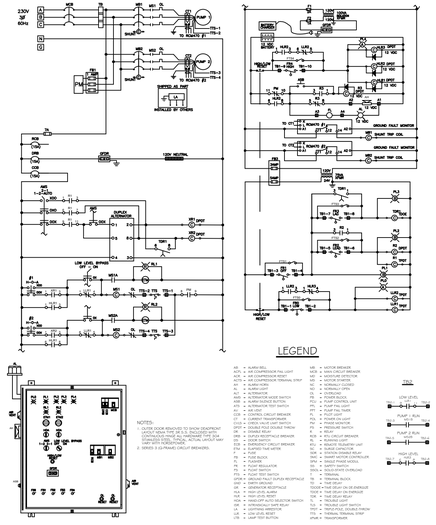
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NOTES:
1. DRAWING IS SHOWN FOR 230 VOLT POWER SUPPLY. THE LOCATION OF METER AND MAIN POWER DISCONNECT SHALL BE REVERSED FOR 480 VOLT SUPPLY.
2. WHEN TWO (2) SEPARATE CONDUCTOR-TYPE MOTORS ARE USED, CONDUIT SHALL BE INCREASED TO THREE (3) INCH.
3. POWER SUPPLY SHALL BE UNDERGROUND TO THE PUMP STATION AND SHALL BE THREE (3) PHASE FROM A THREE (3) PHASE SOURCE ONLY.
4. STUB OUT UNISTRUT LONG ENOUGH TO ACCOMODATE A 24"x24" SCADA EQUIPMENT CABINET. CITY TO INSTALL SCADA EQUIPMENT CABINET.

DUPLEX PUMP STATION CONTROL PANEL INSTALLATION DETAIL

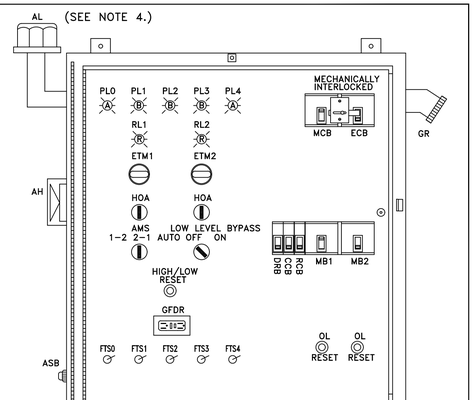
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 302



DUPLEX PUMP CONTROL PANEL GENERAL LAYOUT & SCHEMATIC

(230V-3PH)
WITHOUT GENERATOR RECEPTACLE

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 305 B



NOTES:
1. OUTER DOOR REMOVED TO SHOW DEADFRONT LAYOUT NEMA TYPE 3R 304 S.S. ENCL. WITH CONTINUOUS HINGE ALL HARDWARE STAINLESS STEEL TYPICAL, ACTUAL LAYOUT MAY VARY WITH HORSEPOWER
2. SERIES 3 (Q-FRAME) CIRCUIT BREAKERS
3. GENERATOR OUTLET FOR 230V - PYLE NATIONAL MODEL JRE4100/460V - CROUSE HINDS MODEL AR 2042.
4. THE HEIGHT OF THE ALARM LIGHT WILL NEED TO BE MADE VISIBLE FROM OUTSIDE THE LIFT STATION.

DUPLEX PUMP STATION CONTROL PANEL FRONT LAYOUT

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 303

AB - ALARM BELL
ACFL - AIR COMPRESSOR FAIL LIGHT
ACR - AIR COMPRESSOR RESET
ACTS - AIR COMPRESSOR TERMINAL STRIP
AH - ALARM HORN
AL - ALARM LIGHT
ALT - ALTERNATOR
AMS - ALTERNATOR MODE SWITCH
ASB - ALARM SILENCE BUTTON
ATS - ALTERNATOR TEST SWITCH
AV - AIR VENT
CCB - CONTROL CIRCUIT BREAKER
CT - CURRENT TRANSFORMER
CVLS - CHECK VALVE LIMIT SWITCH
DPDT - DOUBLE-POLE, DOUBLE-THROW
DR - DISABLE RELAY
DRB - DUPLEX RECEPTACLE BREAKER
DS - DOOR SWITCH
ECB - EMERGENCY CIRCUIT BREAKER
ETM - ELAPSED TIME METER
F - FUSE
FB - FUSE BLOCK
FL - FLASHER
FR - FLOAT REGULATOR
FS - FLOW SWITCH
FTS - FLOAT TEST SWITCH
GFDR - GROUND FAULT DUPLEX RECEPTACLE
GND - EARTH GROUND
GR - GENERATOR RECEPTACLE
HLA - HIGH LEVEL ALARM
HLR - HIGH LEVEL RESET
HOA - HAND-OFF-AUTO SELECTOR SWITCH
ISR - INTRINSICALLY SAFE RELAY
LA - LIGHTNING ARRESTOR
LLR - LOW LEVEL RESET
LTB - LAMP TEST BUTTON
MB - MOTOR BREAKER
MCB - MAIN CIRCUIT BREAKER
MD - MOISTURE DETECTOR
MS - MOTOR STARTER
NC - NORMALLY CLOSED
NO - NORMALLY OPEN
OL - OVERLOAD
PB - POWER BLOCK
PCU - PUMP CONTROL UNIT
PFL - PUMP FAIL LIGHT
PFT - PUMP FAIL TIMER
PL - PILOT LIGHT
POL - POWER ON LIGHT
PM - PHASE MONITOR
PS - PRESSURE SWITCH
R - RELAY
RCB - RTU CIRCUIT BREAKER
RL - RUNNING LIGHT
RTU - REMOTE TELEMETRY UNIT
SC - SURGE CAPACITOR
SDR - STATION DISABLE RELAY
SMC - SMART MOTOR CONTROLLER
SPM - SINGLE PHASE MODULE
SS - SAFETY SWITCH
SSOL - SOLID-STATE OVERLOAD
T - TERMINAL
TB - TERMINAL BLOCK
TD - TIME DELAY
TDODE - TIME DELAY ON DE-ENERGIZE
TDOE - TIME DELAY ON ENERGIZE
TDR - TIME DELAY RELAY
TL - TROUBLE LIGHT
TLS - TROUBLE LIGHT SWITCH
TPDT - TRIPLE-POLE, DOUBLE-THROW
TTS - THERMAL TERMINAL STRIP
XFMR - TRANSFORMER

COMPONENT LEGEND

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 306

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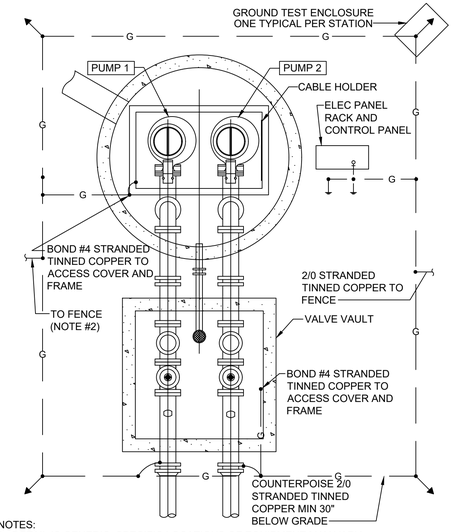
DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

LIFT STATION PLAN - 2

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: NONE
SHEET: 31 OF 33

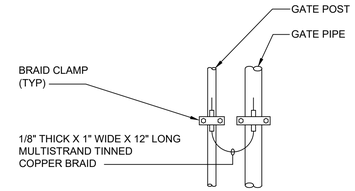
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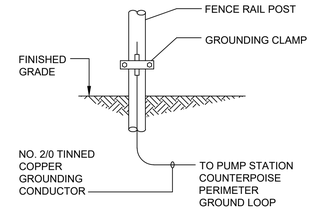


NOTES:
1. DETAIL IS GENERIC. SPECIFIC LOCATIONS OF EQUIPMENT MAY VARY.
2. TIE TO FENCE, MINIMUM 2 LOCATIONS. NOT REQUIRED WHERE PVC COATED OR BLOCK FENCE IS INSTALLED.
3. PROVIDE EXOTHERMIC WELDS UNLESS NOTED OTHERWISE.

PUMP STATION GROUNDING (TYPICAL)

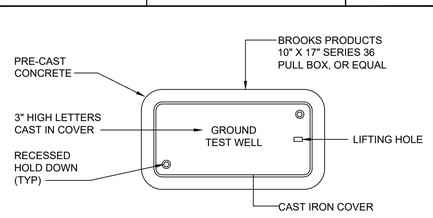
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 307

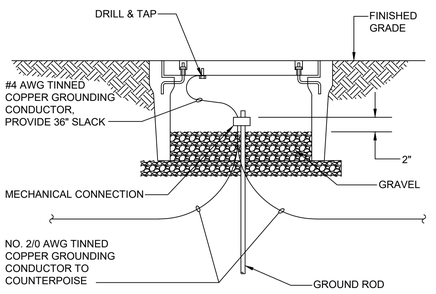




FENCE POST GROUNDING (TYPICAL)

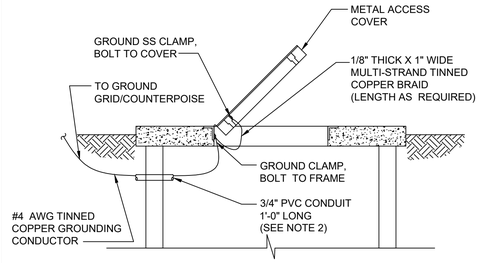
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 307 A





GROUND TEST WELL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 307 B



NOTES:
1. ON COVERS WITH MULTIPLE DOORS, PROVIDE BRAID FROM FRAME TO DOOR ON EACH DOOR. PROVIDE WATERPROOF CAULKING WHERE GROUND CABLE AND CONDUIT PENETRATES WETWELL TO PREVENT INTRUSION OF GROUNDWATER AND ESCAPE OF VAPORS FROM WETWELL.
2. INSTALL GROUND WIRE SO THAT IT WILL NOT CROSS CLEAR OPENING OR PREVENT OR IMPEDE NORMAL METHOD OF REMOVING FLOATS OR PUMPS.

COVER AND DOOR GROUNDING

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 307 C

BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

DAVE SCHMITT
ENGINEERING, INC.
12301 Lake Underhill Road Suite 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER
48274

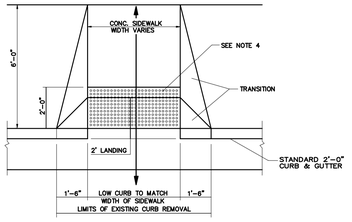
LIFT STATION PLAN - 3

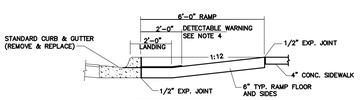
MID-FLORIDA SOUTH LOGISTICS PARK

APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.: ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: NONE
SHEET: 32 OF 33

F:\ANC7\CAD\Planset\Final\30-32 LIFT STATION PLANS.dwg,6/6/2023 7:09:34 PM

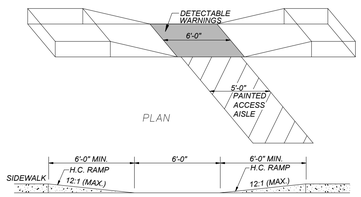




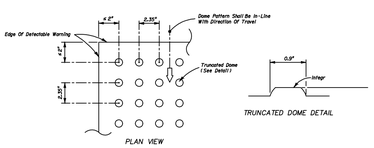
SECTION A–A

NOTES:
1. ENTIRE EXISTING CURB SHALL BE REMOVED & REPLACED WITHIN LIMITS SHOWN.
2. LOW CURB & TRANSITION MAY BE FORMED AT THE TIME OF CURB CONSTRUCTION.
3. CONSTRUCT WITH CLASS A (3000 PSI) CONCRETE.
4. CONTRACTOR TO VERIFY WITH LOCAL AGENCY THE REQUIREMENT OF DETECTABLE "CAST IN PLACE" WARNING SURFACES PER THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITIES GUIDLINES (ADAAG) SECTION 4.29.2.

HANDICAP RAMP

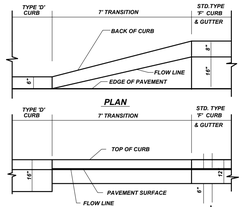


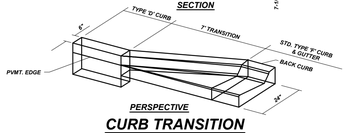
HANDICAP RAMP DETAIL



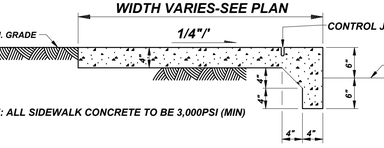
ALL SIDEWALK CURB RAMPS SHALL HAVE "CAST IN PLACE" DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24 INCHES (610 mm) FROM THE BACK OF CURB IN ACCORDANCE WITH F.D.O.T. INDEX 304.

CURB RAMP DETECTABLE WARNING





CURB TRANSITION TYPE 'F' TO TYPE 'D' CURB

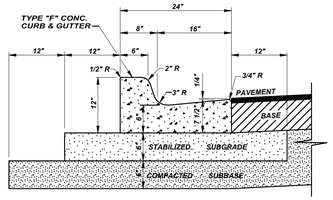


STANDARD SIDEWALK

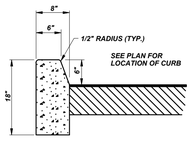
NOTE: MINIMUM 3000 PSI CONCRETE TO BE USED.

NOTE: ALL SIDEWALK CONCRETE TO BE 3,000PSI (MIN)

SIDEWALK ABUTTING PAVEMENT



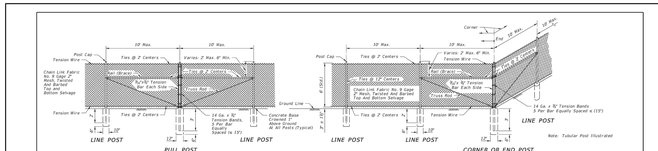
TYPE "F" CURB & GUTTER



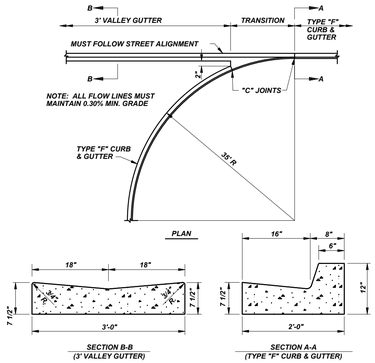
TYPE "D" CURB

F.D.O.T. DESIGN STANDARDS INDICES

CONTRACTOR SHALL COMPLY WITH THE 2018-19 F.D.O.T. BOOKLET FOR "DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM"
F.D.O.T. INDEX 425-001 - SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS
F.D.O.T. INDEX 425-010 - STRUCTURE BOTTOMS TYPE J AND P
F.D.O.T. INDEX 425-020 - CURB INLET TOPS TYPES 1, 2, 3 & 4
F.D.O.T. INDEX 425-052 - DITCH BOTTOM INLET TYPES C, D, E & H
F.D.O.T. INDEX 430-021 - CROSS DRAIN MITERED END SECTION SINGLE AND MULTIPLE ROUND CONCRETE PIPE
F.D.O.T. INDEX 520-001 - CURB & GUTTER
F.D.O.T. INDEX 522-002 - DETECTABLE WARNINGS & SIDEWALK CURB RAMPS
F.D.O.T. INDEX 711-001 - PAVEMENT MARKINGS







3' VALLEY GUTTER & TRANSITION

BlueScope Properties Group

ARCO NATIONAL CONSTRUCTION

DAVE SCHMITT ENGINEERING, INC.
12301 LAKE UNDERHILL ROAD SUITE 241
ORLANDO, FL 32828
407-207-9088 FAX 407-207-9089
Certification of Authorization #27471

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DAVE M. SCHMITT
FLORIDA REG. NUMBER 48274

PAVING GRADING & DRAINAGE DETAILS

MID-FLORIDA SOUTH LOGISTICS PARK
APOPKA, FLORIDA

DATE: APRIL 2023
PROJECT NO.:ANC-7
DRAWN BY: DM
CHECKED BY: DMS
SCALE: NONE
SHEET: 33 OF 33

F:\ANC7\CAD\Planset\Final\33 PAVING GRADING & DRAINAGE DETAILS.dwg,6/6/2023 7:09:20 PM

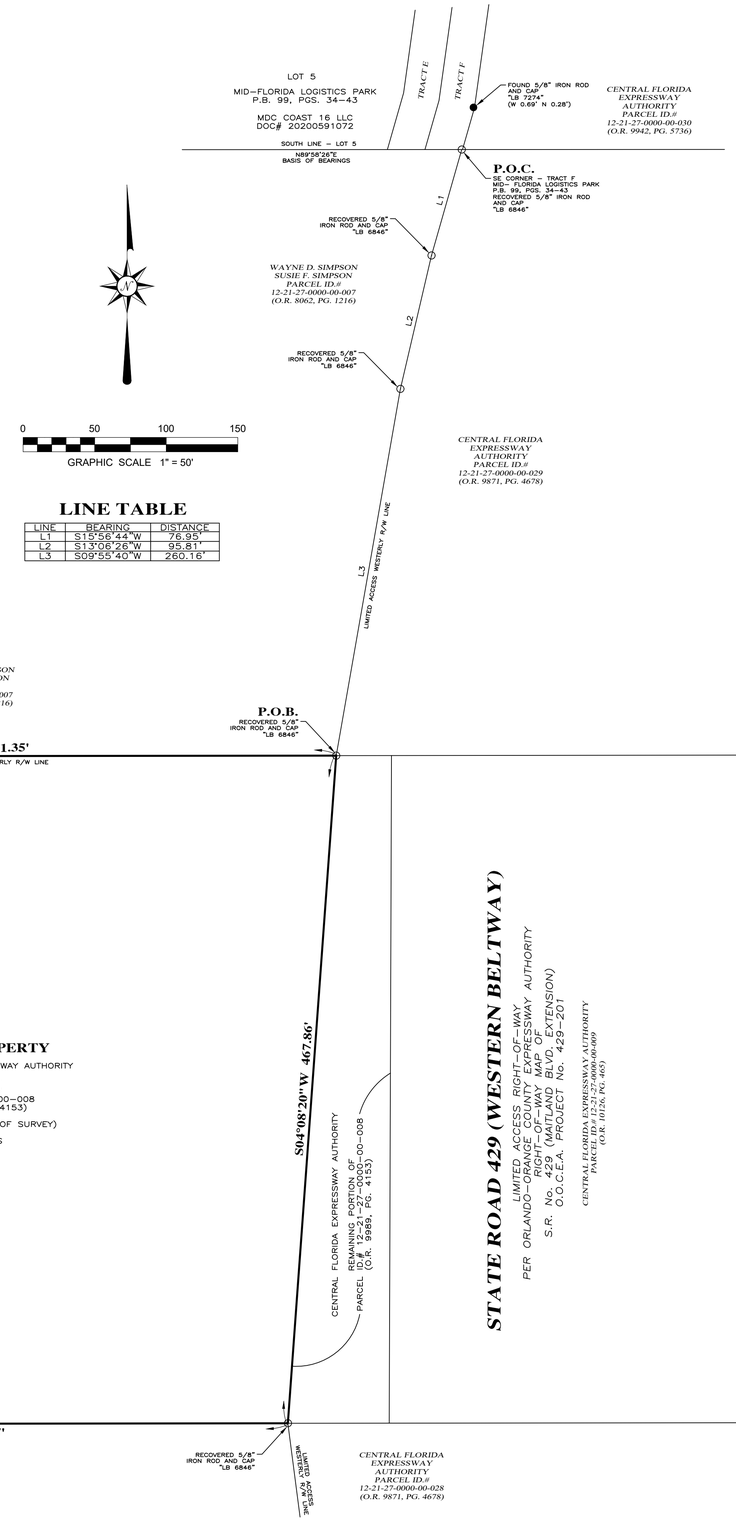
BOUNDARY AND TOPOGRAPHIC SURVEY

OF M.F.L.P. 2 SPECULATIVE WAREHOUSE

LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST ORANGE COUNTY, FLORIDA



VICINITY MAP
NOT TO SCALE



LINE TABLE

LINE	BEARING	DISTANCE
L1	S15°56'44"W	76.95'
L2	S13°06'26"W	95.81'
L3	S09°55'40"W	260.16'

LEGAL DESCRIPTION

A PARCEL OF LAND LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA, BEING A PORTION OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 9989, PG. 4153 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF TRACT F, MID-FLORIDA LOGISTICS PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK, 99, PAGES 34-43, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, ALSO BEING THE WESTERLY RIGHT-OF-WAY OF STATE ROAD 429 (WESTERN BELTWAY) LIMITED ACCESS RIGHT-OF-WAY; THENCE ALONG SAID WESTERLY RIGHT-OF-WAY OF STATE ROAD 429 (WESTERN BELTWAY) THE FOLLOWING THREE (3) COURSES: 1) S15°56'44"W, A DISTANCE OF 76.95 FEET; 2) S13°06'26"W, A DISTANCE OF 95.81 FEET; 3) S09°55'40"W, A DISTANCE OF 260.16 FEET TO THE POINT OF BEGINNING;

THENCE DEPARTING SAID WESTERLY RIGHT-OF-WAY OF STATE ROAD 429 (WESTERN BELTWAY), S04°08'20"W, A DISTANCE OF 467.86 FEET TO A POINT ALONG SAID WESTERLY RIGHT-OF-WAY OF STATE ROAD 429 (WESTERN BELTWAY); THENCE ALONG SAID WESTERLY RIGHT-OF-WAY OF STATE ROAD 429 (WESTERN BELTWAY) THE FOLLOWING THREE (3) COURSES: 1) S89°55'49"W, A DISTANCE OF 489.17 FEET; 2) N00°11'42"E, A DISTANCE OF 466.60 FEET; 3) N89°55'49"E, A DISTANCE OF 521.35 FEET TO THE POINT OF BEGINNING.

CONTAINING 5.412 ACRES (235752 SQUARE FEET) OF LAND, MORE OR LESS.

SURVEYORS NOTES:

1. THIS BOUNDARY AND TOPOGRAPHIC SURVEY WAS PREPARED FOR ARCO. ADDITIONS OR DELETIONS BY ANYONE OTHER THAN THE SIGNING PARTY ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF LEADING EDGE LAND SERVICES, INC.
2. THE BASIS OF BEARINGS FOR THIS SURVEY IS GRID NORTH, STATE PLANE COORDINATE SYSTEM, FLORIDA EAST, NAD 83, NGS ADJUSTMENT OF 2011. THE SOUTH LINE OF LOT 5, MID-FLORIDA LOGISTICS PARK, PLAT BOOK, 99, PAGES 34-43, WHICH BEARS N89°58'26"E.
3. UNLESS OTHERWISE NOTED, SURVEY MEASUREMENTS AND PLOTTED FEATURES SHOWN ON THIS SURVEY ARE BASED ON ACTUAL FIELD MEASUREMENTS.
4. THE ACCURACY OF THIS SURVEY MEETS OR EXCEEDS STANDARDS SET FORTH IN ADMINISTRATIVE RULE 5J-17 STANDARDS OF PRACTICE FOR SURVEYORS AND MAPPERS."
5. THE SUBJECT PROPERTY CONTAINS 5.412 ACRES OF LAND, MORE OR LESS.
6. ONLY VISIBLE IMPROVEMENTS THAT EXISTED AS OF THE DATE OF THIS SURVEY WERE LOCATED AND ARE SHOWN ON THIS SURVEY.
7. THE FOLLOWING WERE USED IN THE PREPARATION OF THIS SURVEY:
   A. PLAT OF MID-FLORIDA LOGISTICS PARK AS RECORDED IN PLAT BOOK 99, PAGES 34-43 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA
   B. ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY RIGHT OF WAY MAP FOR STATE ROAD NUMBER 429 (MAITLAND BLVD. EXTENSION) O.O.C.E.A. PROJECT NUMBER 429-201, PREPARED BY DRMP, DATED FEBRUARY 29, 2008.
   C. ALTA/NSPS LAND TITLE SURVEY OF M.F.L.P. 2 SPECULATIVE WARHOUSE, BY LEADING EDGE LAND SERVICES, INC., DATED JUNE 29, 2022.
8. A REVIEW OF FLOOD INSURANCE RATE MAPS FOR ORANGE COUNTY, FLORIDA, INDICATES THAT THIS PROPERTY LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN). THIS INFORMATION WAS TAKEN FROM MAP NUMBER 12095C0125 AND 12095C0120 REVISED SEPTEMBER 24, 2021 THE LIMITS OF THE FLOOD ZONE SHOWN ON THIS SURVEY ARE BASED ON DIGITAL DATA AVAILABLE FROM STATEWIDE GIS DATABASE.
9. THE VERTICAL DATUM FOR THIS SURVEY IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THE BENCHMARK THIS SURVEY IS BASED ON IS DESCRIBED AS FOLLOWS: FOUND 3 INCH ORANGE COUNTY ALUMINUM DISK IN CENTERLINE OF 5' CONCRETE SIDEWALK AT NORTH END AT WEST RIGHT OF WAY OF STEWART AVE +/- 30 FEET WEST OF THE CENTERLINE OF STEWART AVE +/- 280 FEET NORTH OF THE CENTERLINE OF STATE ROAD 441, PUBLISHED ELEVATION = 122.91 FEET. SITE BENCHMARKS ARE SHOWN AND DESCRIBED GRAPHICALLY ON THE SURVEY.
10. NO UNDERGROUND FOOTINGS OR FOUNDATIONS WERE OBSERVED AND NO ATTEMPT TO LOCATE ANY UNDERGROUND FEATURES AFFECTING THE PROPERTY WAS MADE IN THE COURSE OF THIS SURVEY.
11. ONLY VISIBLE IMPROVEMENTS WERE LOCATED AND ARE SHOWN AS PART OF THIS SURVEY. NO ATTEMPT WAS MADE TO LOCATE OR VERIFY SUBSURFACE IMPROVEMENTS OR ENCROACHMENTS.
12. THIS SURVEY WAS MADE WITHOUT THE BENEFIT OF A TITLE REPORT. THERE MAY BE EASEMENTS AND RESTRICTIONS THAT AFFECT THE SUBJECT PROPERTY THAT ARE NOT DEPICTED ON THE SURVEY.

LEGEND

●	FOUND 5/8" IRON ROD AND CAP
○	RECOVERED 5/8" IRON ROD AND CAP (LB 6846)
	WETLAND FLAG
P.O.B.	POINT OF BEGINNING
O.R.B.	OFFICIAL RECORDS BOOK
P.B.	PLAT BOOK
PG. (PGS.)	PAGE (PAGES)
WL	WETLAND
CLF	CHAIN LINK FENCE
SEC	SECTION
T	TOWNSHIP
R	RANGE
LB	LICENSED BUSINESS
No.	NUMBER
R/W	RIGHT OF WAY
DOC#	DOCUMENT NUMBER
CONC. MON.	CONCRETE MONUMENT
S.R.	STATE ROAD
PSM	PROFESSIONAL SURVEYOR AND MAPPER
—X—	FENCE LINE
INV.	INVERT
EL	ELEVATION
TOB	TOP OF BANK
TOE	TOE OF SLOPE
	BENCHMARK
	BORE LOCATION MARKER
×100.6	SPOT ELEVATION - GROUND ELEVATION
	OAK TREE
	WALNUT TREE
	CAMPHOR TREE
	PALM TREE
	SWEET GUM TREE
	(UNKNOWN) TREE
	MAGNOLIA TREE
	MAPLE TREE
	PINE TREE

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

REVISIONS:

DATE OF DRAWING: 29 NOV 2022	LAST FIELD WORK: 23 NOV 2022
MANAGER: MB | CADD: JAA, TQ	CREW CHIEF(S): RE, CR
PROJECT NUMBER: 512-22019	COMPUTER FILE: 512019BT.DWG
FIELD BOOK NUMBER: LE 1614,1612	SCALE: 1"=50' | SHEET 1 OF 2

I, THE UNDERSIGNED, FLORIDA LICENSED SURVEYOR AND MAPPER, DO HEREBY CERTIFY THAT I HAVE COMPLETED THIS SURVEY IN ACCORDANCE WITH FLORIDA ADMINISTRATIVE RULE 5J-17 STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS.

MIKE BAERHOLD, PSM
PROFESSIONAL SURVEYOR AND MAPPER NUMBER 5575

OF
M.F.L.P. 2 SPECULATIVE WAREHOUSE
LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

INCORPORATED
8802 EXCHANGE DRIVE
ORLANDO, FLORIDA 32809
PHONE:(407) 351-6730
FAX:(407) 351-9691
WEB:www.leadingedgels.com
FLORIDA LICENSED BUSINESS NUMBER LB 6846

SITE BENCHMARK #1
SET 5/8" IRON ROD WITH CAP
"LB 6846"
EL = 106.19

SITE BENCHMARK #2
SET 5/8" IRON ROD
WITH CAP
"LB 6846"
EL = 100.34

SITE BENCHMARK #3
SET 5/8" IRON ROD
WITH CAP
"LB 6846"
EL = 89.47

SOIL BORING
TB-10
EL = 105.2

SOIL BORING
TB-11
EL = 105.2

SOIL BORING
TB-20
EL = 99.7

SOIL BORING
HA-5
EL = 101.7

SOIL BORING
EL = 73.6

SOIL BORING
EL = 74.3

SOIL BORING
EL = 73.9

SOIL BORING
EL = 73.0

SOIL BORING
EL = 74.7

SOIL BORING
EL = 74.2

SOIL BORING
EL = 74.1

SOIL BORING
EL = 73.5

APPROXIMATE WATER'S EDGE EL = 75.7± (AS OF 23 NOV 2022)

POND

WETLAND AREA

10'± WIDE DIRT/GRAVEL DRIVE

6' CLF

BERM

TOB

CONCRETE FLUME

CATCH BASIN
TOP EL = 77.75
S INV EL = 73.86

CONCRETE HEADWALL
TOP EL = 79.04
INV EL = 74.75

STORM MANHOLE
TOP RIM EL = 79.54
N INV EL = 69.61
S INV EL = 68.60
W INV EL = 69.60

CATCH BASIN
TOP EL = 79.97
(INACCESSIBLE)

24" RCP

18" RCP

ST

LIMITED ACCESS RIGHT-OF-WAY
PER ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY
RIGHT-OF-WAY MAP OF
S.R. No. 429 (MAITLAND BLVD. EXTENSION)
O.O.C.E.A. PROJECT No. 429-201

0 30 60 90
GRAPHIC SCALE 1" = 30'

REVISIONS:

LAST FIELD WORK:	23 NOV 2022
CREW CHIEF(S):	RE, CR
COMPUTER FILE:	512019BT.DWG
SCALE:	1"=30'
SHEET	2 OF 2
DATE OF DRAWING:	29 NOV 2022
MANAGER: MB	CADD: JAA, TQ
PROJECT NUMBER:	512-22019
FIELD BOOK NUMBER:	LE 1614,1612

OF

M.F.L.P. 2 SPECULATIVE WAREHOUSE
LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

INCORPORATED
8802 EXCHANGE DRIVE
ORLANDO, FLORIDA 32809
PHONE:(407) 351-6730
FAX:(407) 351-9691
WEB:www.leadingedgels.com
FLORIDA LICENSED BUSINESS NUMBER LB 6846

ALTA/NSPS LAND TITLE SURVEY

OF M.F.L.P. 2 SPECULATIVE WAREHOUSE

LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA



VICINITY MAP
NOT TO SCALE

SURVEYORS NOTES:

1. THIS ALTA/NSPS SURVEY WAS PREPARED FOR ARCO. ADDITIONS OR DELETIONS BY ANYONE OTHER THAN THE SIGNING PARTY ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF LEADING EDGE LAND SERVICES, INC.

2. THE BASIS OF BEARINGS FOR THIS SURVEY IS GRID NORTH, STATE PLANE COORDINATE SYSTEM, FLORIDA EAST, NAD 83, NGS ADJUSTMENT OF 2011. THE EAST LINE OF THE NORTHEAST 1/4 OF SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST BEARS S00°11'41" ACCORDING TO THE ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY RIGHT OF WAY MAP FOR STATE ROAD NUMBER 429 (MAITLAND BLVD. EXTENSION) O.O.C.E.A. PROJECT NUMBER 429-201, PREPARED BY DRMP, DATED FEBRUARY 29, 2008.

3. UNLESS OTHERWISE NOTED, SURVEY MEASUREMENTS AND PLOTTED FEATURES SHOWN ON THIS SURVEY ARE BASED ON ACTUAL FIELD MEASUREMENTS.

4. THE ACCURACY OF THIS SURVEY MEETS OR EXCEEDS STANDARDS SET FORTH IN ADMINISTRATIVE RULE 5J-17 STANDARDS OF PRACTICE FOR SURVEYORS AND MAPPERS."

5. THE SUBJECT PROPERTY CONTAINS 65.303 ACRES OF LAND, MORE OR LESS.

6. THE FOLLOWING WERE USED IN THE PREPARATION OF THIS SURVEY:

A. PLAT OF MID-FLORIDA LOGISTICS PARK AS RECORDED IN PLAT BOOK 99, PAGES 34-43 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA

B. ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY RIGHT OF WAY MAP FOR STATE ROAD NUMBER 429 (MAITLAND BLVD. EXTENSION) O.O.C.E.A. PROJECT NUMBER 429-201, PREPARED BY DRMP, DATED FEBRUARY 29, 2008.

7. A REVIEW OF FLOOD INSURANCE RATE MAPS FOR ORANGE COUNTY, FLORIDA, INDICATES THAT A PORTION OF THIS PROPERTY LIES WITHIN ZONE AE (SPECIAL FLOOD HAZARD AREAS SUBJECT TO 1% ANNUAL CHANCE FLOOD) WITH A BASE FLOOD ELEVATION OF 68.3 FEET AND THE REMAINDER OF THIS PROPERTY LIES WITHIN ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN). THIS INFORMATION WAS TAKEN FROM MAP NUMBER 12095C0125 AND 12095C0120 REVISED SEPTEMBER 24, 2021 THE LIMITS OF THE FLOOD ZONE SHOWN ON THIS SURVEY ARE BASED ON DIGITAL DATA AVAILABLE FROM STATEWIDE GIS DATABASE.

8. THERE ARE NO PARKING SPACES ON THE SUBJECT PROPERTY.

9. ZONING AND SETBACK INFORMATION WAS NOT PROVIDED AT TIME OF SURVEY

10. AS OF THE DATE OF THIS SURVEY, THERE IS NO OBSERVABLE EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS ON THE SUBJECT PROPERTY.

11. THE VERTICAL DATUM FOR THIS SURVEY IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THE BENCHMARK THIS SURVEY IS BASED ON IS DESCRIBED AS FOLLOWS: FOUND 3 INCH ORANGE COUNTY ALUMINUM DISK IN CENTERLINE OF 5' CONCRETE SIDEWALK AT NORTH END AT WEST RIGHT OF WAY OF STEWART AVE +/- 30 FEET WEST OF THE CENTERLINE OF STEWART AVE +/- 280 FEET NORTH OF THE CENTERLINE OF STATE ROAD 441, PUBLISHED ELEVATION = 122.91 FEET. SITE BENCHMARKS ARE SHOWN AND DESCRIBED GRAPHICALLY ON THE SURVEY.

12. THIS SURVEY WAS MADE WITHOUT THE BENEFIT OF A TITLE REPORT. THERE MAY BE EASEMENTS AND RESTRICTIONS THAT AFFECT THE SUBJECT PROPERTY THAT ARE NOT DEPICTED ON THE SURVEY.

13. THE TREE PROTECTION ZONES AS SHOWN HEREON ARE BASED ON THE ORANGE COUNTY, TREE PROTECTION ORDINANCE NO. 2001-19.

PROTECTION ZONE 'A':
TEN (10) ACRES = 200' OFFSET
LOCATED ADJACENT TO ANY EXISTING AND OPENED PUBLIC RIGHT-OF-WAY
PROTECTED TREES IN THIS AREA EIGHT (8) INCHES DBH OR GREATER.

PROTECTION ZONE 'B':
TEN (10) ACRES = 100' OFFSET
LOCATED ALONG THE SIDE AND REAR PROPERTY LINES NOT INCLUDING ANY PORTION OF PROTECTION ZONE 'A.'
PROTECTED TREES IN THIS AREA EIGHT (10) INCHES DBH OR GREATER.

PROTECTION ZONE 'C':
ANY AREA REMAINING OF THE TEN (10) ACRES
NOT LOCATED WITHIN PROTECTION ZONES 'A' OR 'B.'
PROTECTED TREES IN THIS AREA EIGHT (24) INCHES DBH OR GREATER.

LEGAL DESCRIPTION

A PARCEL OF LAND LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST, ORANGE COUNTY, FLORIDA, BEING ALL OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 8062, PG. 1216, OFFICIAL RECORDS BOOK 10135, PAGE 9149, OFFICIAL RECORDS BOOK 9177, PAGE 2436, AND A PORTION OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 4572, PAGE 90, ALL BEING OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF TRACT F, MID-FLORIDA LOGISTICS PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK, 99, PAGES 34-43, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, ALSO BEING THE WESTERLY RIGHT-OF-WAY LINE OF STATE ROAD 429 (WESTERN BELTWAY) LIMITED ACCESS RIGHT-OF-WAY; THENCE ALONG SAID WESTERLY RIGHT-OF-WAY LINE OF STATE ROAD 429 (WESTERN BELTWAY) THE FOLLOWING NINE (9) COURSES: 1) S15°56'44"W, A DISTANCE OF 76.95 FEET; 2) S13°06'26"W, A DISTANCE OF 95.81 FEET; 3) S09°55'40"W, A DISTANCE OF 260.16 FEET; 4) S89°55'49"W, A DISTANCE OF 521.35 FEET; 5) S00°11'42"W, A DISTANCE OF 466.60 FEET; 6) N89°55'49"E, A DISTANCE OF 489.17 FEET; 7) S07°25'10"E, A DISTANCE OF 313.50 FEET; 8) S17°09'05"E, A DISTANCE OF 106.11 FEET; 9) SOUTH EASTERLY ALONG THE ARC OF A NON-TANGENT CURVE TO THE LEFT (SAID CURVE HAVING A RADIUS OF 5156.00 FEET, A CENTRAL ANGLE OF 07°30'56" AND A CHORD BEARING AND DISTANCE OF S08°24'37"E, 675.83 FEET) FOR AN ARC DISTANCE OF 676.31 FEET TO THE SOUTH LINE OF THE NORTHEAST 1/4 OF SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST; THENCE DEPARTING SAID WESTERLY RIGHT-OF-WAY LINE OF STATE ROAD 429 (WESTERN BELTWAY), ALONG SAID SOUTH LINE OF THE NORTHEAST 1/4 OF SECTION 12, S89°50'36"W, A DISTANCE OF 1729.14 FEET; THENCE DEPARTING SAID SOUTH LINE OF THE NORTHEAST 1/4 OF SECTION 12, N00°25'23"E, A DISTANCE OF 657.98 FEET TO THE SOUTH LINE OF TRACT C OF SAID MID-FLORIDA LOGISTICS PARK; THENCE ALONG THE SOUTH LINE OF SAID TRACT C N89°53'17"E, A DISTANCE OF 81.30 FEET TO THE SOUTHEAST CORNER OF SAID TRACT C; THENCE DEPARTING SAID SOUTH LINE OF TRACT C, ALONG THE EAST LINE OF SAID TRACT C, N00°26'44"E, A DISTANCE OF 1316.95 FEET TO THE NORTHEASTERLY CORNER OF SAID TRACT C, ALSO BEING THE SOUTH LINE OF LOT 5 OF SAID MID-FLORIDA LOGISTICS PARK; THENCE DEPARTING SAID EAST LINE OF TRACT C, ALONG SAID SOUTH LINE OF LOT 5 N89°58'26"E, A DISTANCE OF 1583.60 FEET TO THE POINT OF BEGINNING.

CONTAINING 65.303 ACRES (2844610 SQUARE FEET) OF LAND, MORE OR LESS.

LEGEND

■	FOUND 4"X4" CONCRETE MONUMENT
●	FOUND 5/8" IRON ROD AND CAP
⊙	SET 5/8" IRON ROD AND CAP
	WETLAND FLAG
P.O.B.	POINT OF BEGINNING
O.R.B.	OFFICIAL RECORDS BOOK
P.B.	PLAT BOOK
PG. (PGS.)	PAGE (PAGES)
WL	WETLAND
CLF	CHAIN LINK FENCE
SEC	SECTION
T	TOWNSHIP
R	RANGE
LB	LICENSED BUSINESS
No.	NUMBER
R/W	RIGHT OF WAY
DOC#	DOCUMENT NUMBER
CONC. MON.	CONCRETE MONUMENT
S.R.	STATE ROAD
PSM	PROFESSIONAL SURVEYOR AND MAPPER
—X—	FENCE LINE
INV.	INVERT
EL	ELEVATION
TOB	TOP OF BANK
TOE	TOE OF SLOPE
◆	BENCHMARK
⊘	BORE LOCATION MARKER
×100.6	SPOT ELEVATION – GROUND ELEVATION
	OAK TREE
	WALNUT TREE
	CAMPHOR TREE
	PALM TREE
	SWEET GUM TREE
	(UNKNOWN) TREE
	MAGNOLIA TREE
	MAPLE TREE
	PINE TREE

LINE TABLE

LINE	BEARING	DISTANCE
L1	S15°56'44"W	76.95'
L2	S13°06'26"W	95.81'
L3	S09°55'40"W	260.16'
L4	S17°09'05"E	106.11'
L5	N89°53'17"E	81.30'

CURVE TABLE

CURVE	RADIUS	CENTRAL ANGLE	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	5156.00'	07°30'56"	676.31'	S08°24'37"E	675.83'

WETLAND LINE TABLE

LINE	BEARING	DISTANCE
L6	N30°44'33"W	37.87'
L7	N62°41'57"W	76.89'
L8	N04°54'27"W	78.78'
L9	N06°08'14"E	57.48'
L10	N57°27'42"E	80.15'
L11	N47°58'49"E	64.04'
L12	N83°12'08"E	50.06'
L13	N36°58'25"E	36.93'
L14	N40°30'18"E	72.28'
L15	N54°25'18"E	84.84'
L16	N23°42'36"E	77.88'
L17	N34°15'16"E	62.26'
L18	N03°13'41"E	72.21'
L19	N73°25'28"W	67.92'
L20	S60°30'15"W	58.38'
L21	N18°45'36"W	74.57'
L22	N21°49'38"E	87.03'
L23	N19°32'53"W	134.94'
L24	N09°41'07"E	155.05'
L25	N52°13'24"E	49.28'

CERTIFICATION

TO

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6a, 7a, 8, 9, 13 AND 16 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON 24 MAY, 2022.

DATE:

MIKE BAERHOLD
PROFESSIONAL SURVEYOR AND MAPPER NUMBER 5575

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

REVISIONS:

DATE OF DRAWING: 13 MAY 2022	LAST FIELD WORK: 24 MAY 2022
MANAGER: MB | CADD: JAA, TQ	CREW CHIEF(S): RE, CR
PROJECT NUMBER: 512-22019	COMPUTER FILE: 512019 ALTA.DWG
FIELD BOOK NUMBER: LE 1614,1612	SCALE: 1"=150' | SHEET 1 OF 6

OF
M.F.L.P. 2 SPECULATIVE WAREHOUSE
LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

INCORPORATED
8802 EXCHANGE DRIVE
ORLANDO, FLORIDA 32809
PHONE:(407) 351-6730
FAX:(407) 351-9691
WEB:www.dedmgeogis.com
FLORIDA LICENSED BUSINESS NUMBER LB 6846

INDEX MAP
NOT TO SCALE

GRAPHIC SCALE 1" = 50'

SITE BENCHMARK #1
SET 5/8" IRON ROD WITH CAP
"LB 6846"
EL = 106.82

SITE BENCHMARK #2
SET 5/8" IRON ROD WITH CAP
"LB 6846"
EL = 102.66

SITE BENCHMARK #3
SET 5/8" IRON ROD WITH CAP
"LB 6846"
EL = 107.70

SITE BENCHMARK #5
SET 5/8" IRON ROD WITH CAP
"LB 6846"
EL = 106.19

SITE BENCHMARK #6
SET 5/8" IRON ROD WITH CAP
"LB 6846"
EL = 100.34

SOIL BORING HA-2 EL = 107.5
SOIL BORING TB-5 EL = 107.2
SOIL BORING TB-6 EL = 105.3
SOIL BORING TB-7 EL = 98.3
SOIL BORING TB-10 EL = 105.2
SOIL BORING TB-9 EL = 99.6
SOIL BORING TB-11 EL = 105.2
SOIL BORING TB-8 EL = 93.2
SOIL BORING HA-6 EL = 93.1
SOIL BORING HA-5 EL = 101.7
SOIL BORING TB-20 EL = 99.7

MITERED END SECTION
24" RCP
INV EL = 102.63

CONCRETE FLUME

10'± WIDE DIRT/GRAVEL DRIVE

CATCH BASIN
TOP EL = 77.75

ZONE A – 24" AND UP
ZONE B – 10" AND UP
ZONE C – 24" AND UP
ZONE B – 10" AND UP

SHEET 3 MATCHLINE SHEET 2
SHEET 2 MATCHLINE SHEET 5

LIMITED ACCESS RIGHT-OF-WAY
PER ORLANDO-ORANGE COUNTY EXPRESSWAY AUTHORITY
RIGHT-OF-WAY MAP OF
S.R. No. 417 (MITLAND BLVD. EXTENSION)
O.O.C.E.A. PROJECT No. 429-201

REVISIONS:

DATE OF DRAWING:	13 MAY 2022
MANAGER:	MB
CADD:	JAA, TQ
PROJECT NUMBER:	512-22019
FIELD BOOK NUMBER:	LE 1614,1612
LAST FIELD WORK:	24 MAY 2022
CREW CHIEF(S):	RE, CR
COMPUTER FILE:	512019 ALTA.DWG
SCALE:	1"=50'
SHEET	2 OF 6

OF

M.F.L.P. 2 SPECULATIVE WAREHOUSE
LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

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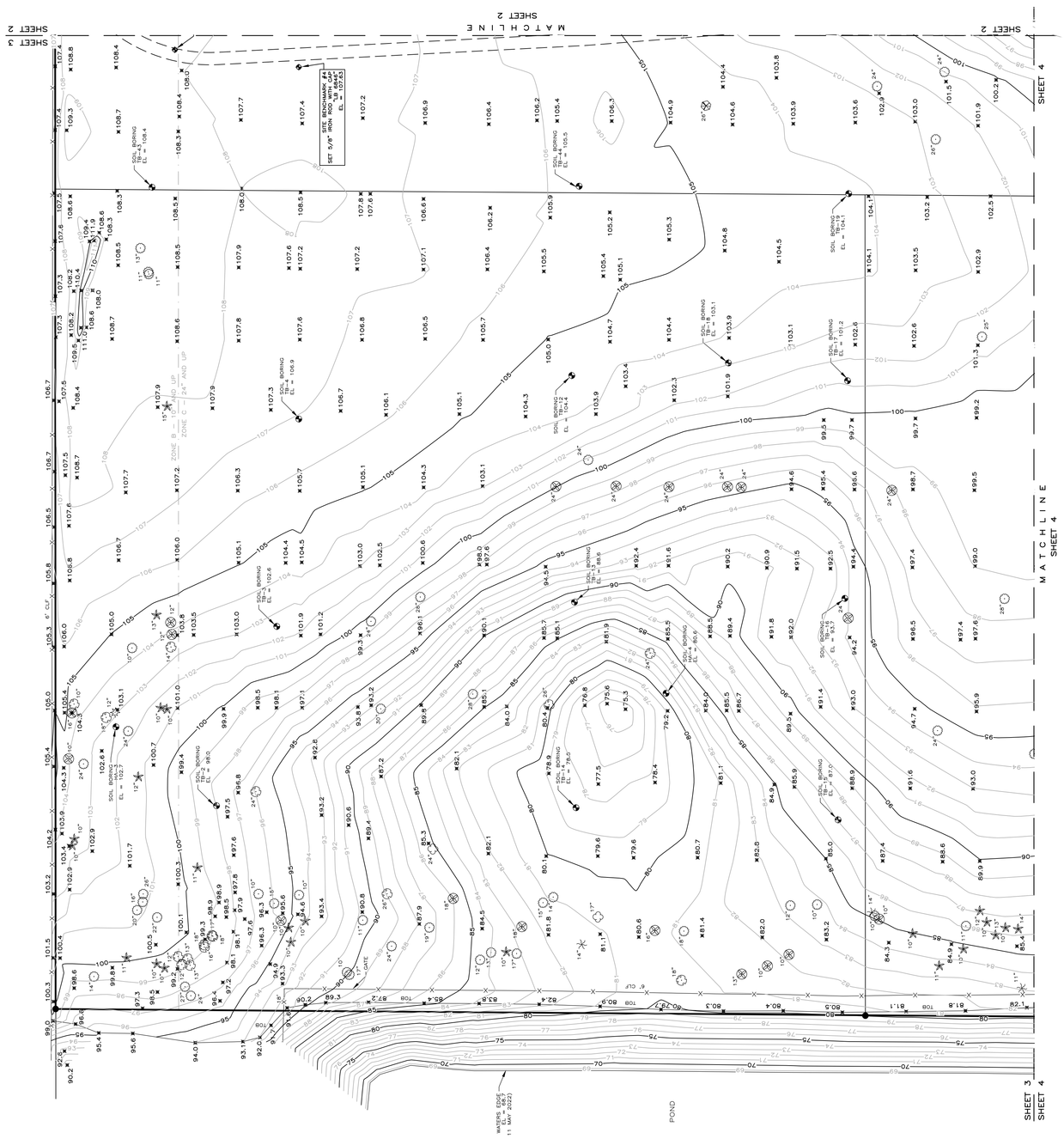
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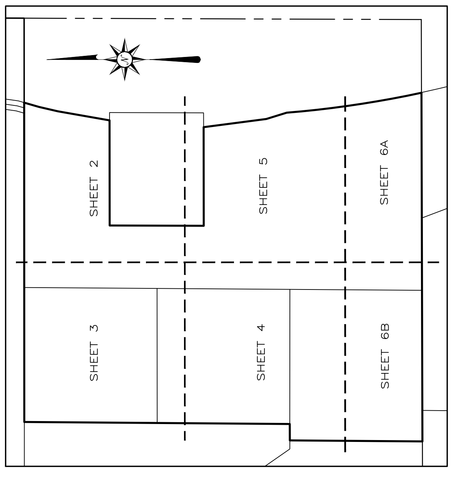
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LOCATED IN SECTION 13, TOWNSHIP 21 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

OF

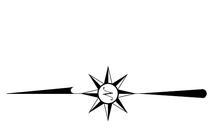
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DATE OF DRAWING: 13 MAY 2022	LAST FIELD WORK: 24 MAY 2022
MANAGER: MB	CADD: JAA, TG	CREW CHIEF(S): RE, CR
PROJECT NUMBER: 512-22019	COMPUTER FILE: 512019 ALTA.DWG
FIELD BOOK NUMBER: LE 1614,1612	SCALE: 1"=50'	SHEET 3 OF 6

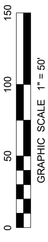
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

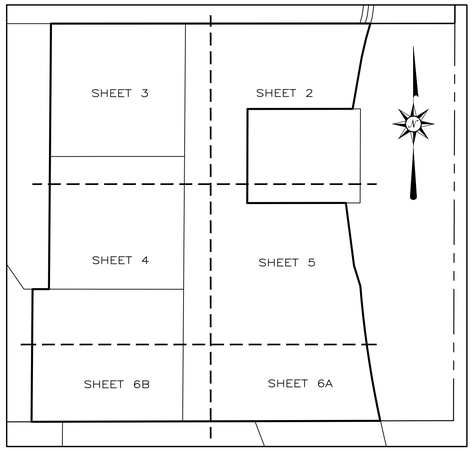




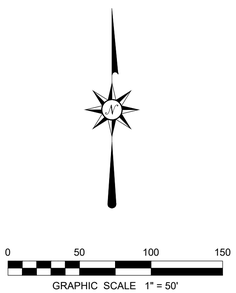
INDEX MAP
NOT TO SCALE

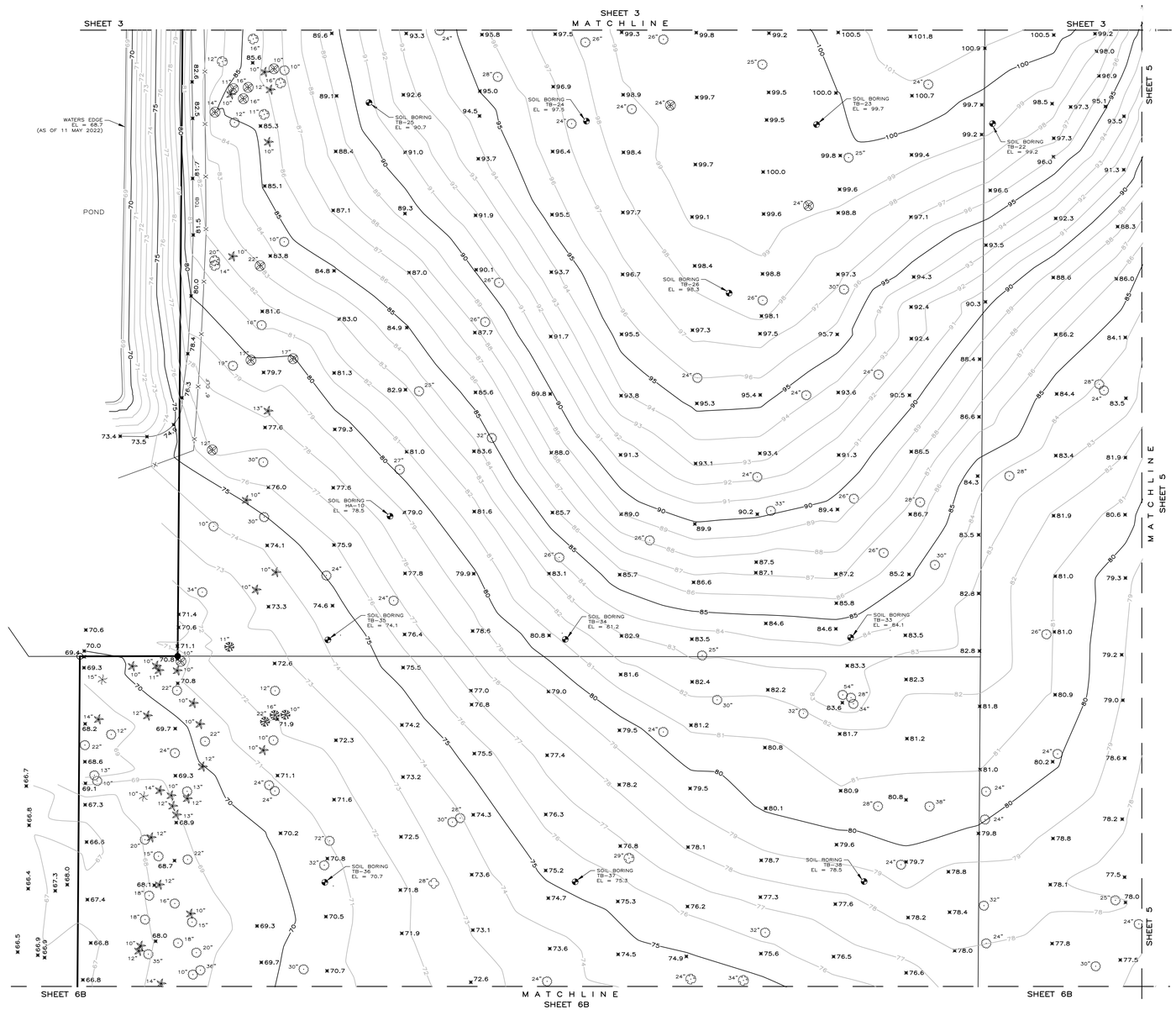






INDEX MAP
NOT TO SCALE





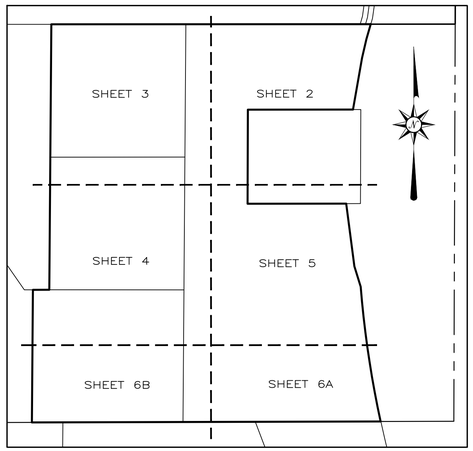
REVISIONS:

LAST FIELD WORK:	24 MAY 2022
DATE OF DRAWING:	13 MAY 2022
MANAGER:	MB
CADD:	JAA, TQ
CREW CHIEF(S):	RE, CR
PROJECT NUMBER:	512-22019
COMPUTER FILE:	512019 ALTA.DWG
FIELD BOOK NUMBER:	LE 1614,1612
SCALE:	1"=50'
SHEET	4 OF 6

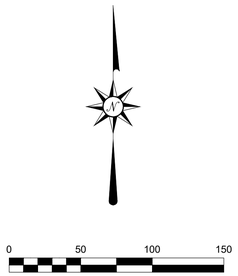
OF
M.F.L.P. 2, SPECULATIVE WAREHOUSE
LOCATED IN SECTION 12, TOWNSHIP 24 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

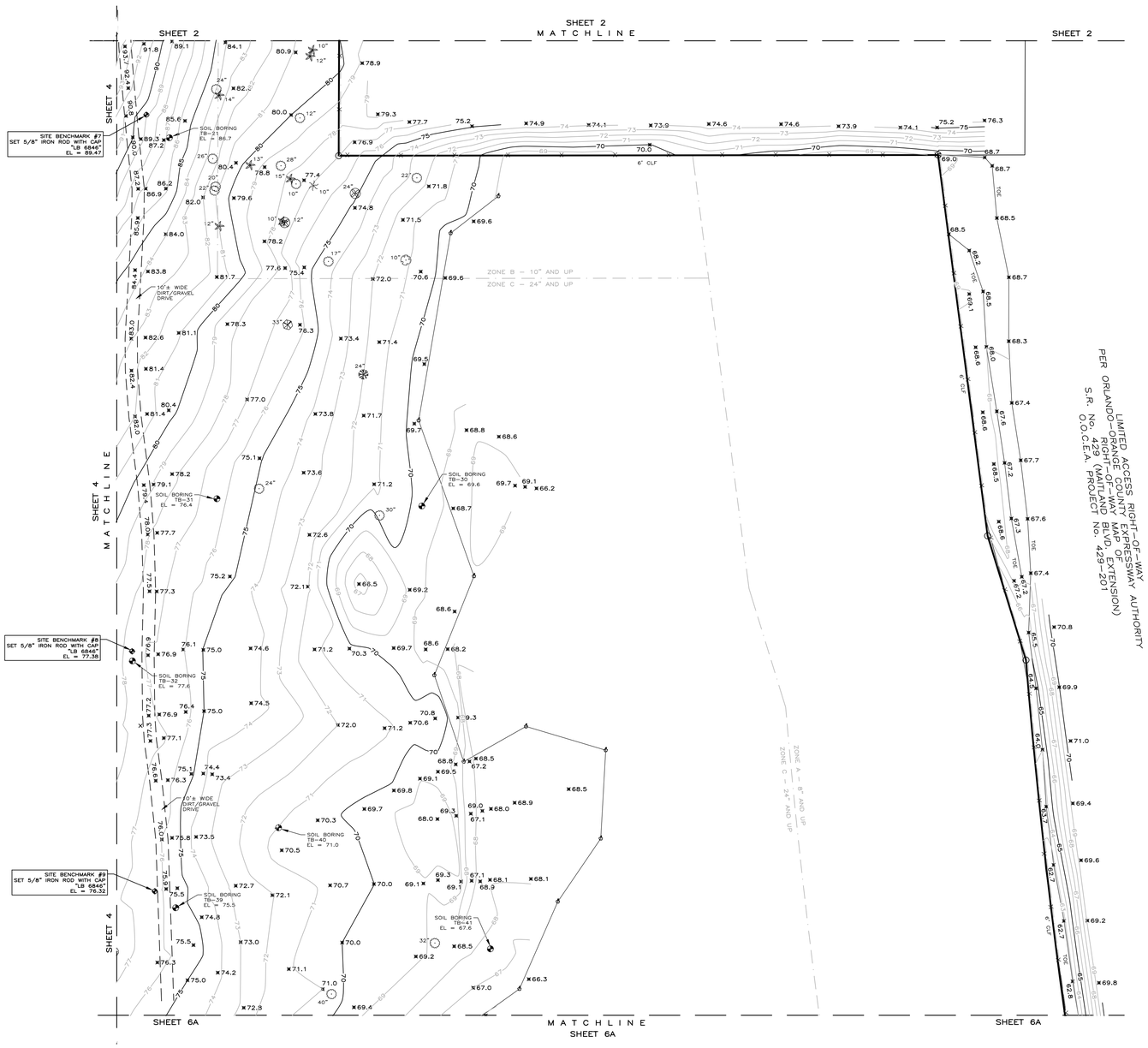
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ORLANDO, FLORIDA 32809
PHONE:(407) 351-6730
FAX:(407) 351-9691
WEB:www.eadlingdegels.com
FLORIDA LICENSED BUSINESS NUMBER LB 6846



INDEX MAP
NOT TO SCALE





REVISIONS:

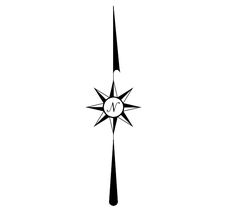
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MANAGER:	MB
CADD:	JAA, TQ
PROJECT NUMBER:	512-22019
FIELD BOOK NUMBER:	LE 1614,1612
LAST FIELD WORK:	24 MAY 2022
CREW CHIEF(S):	RE, CR
COMPUTER FILE:	512019 ALTA.DWG
SCALE:	1"=50'
SHEET	5 OF 6

OF

M.F.L.P. 2 SPECULATIVE WAREHOUSE
LOCATED IN SECTION 12, TOWNSHIP 21 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

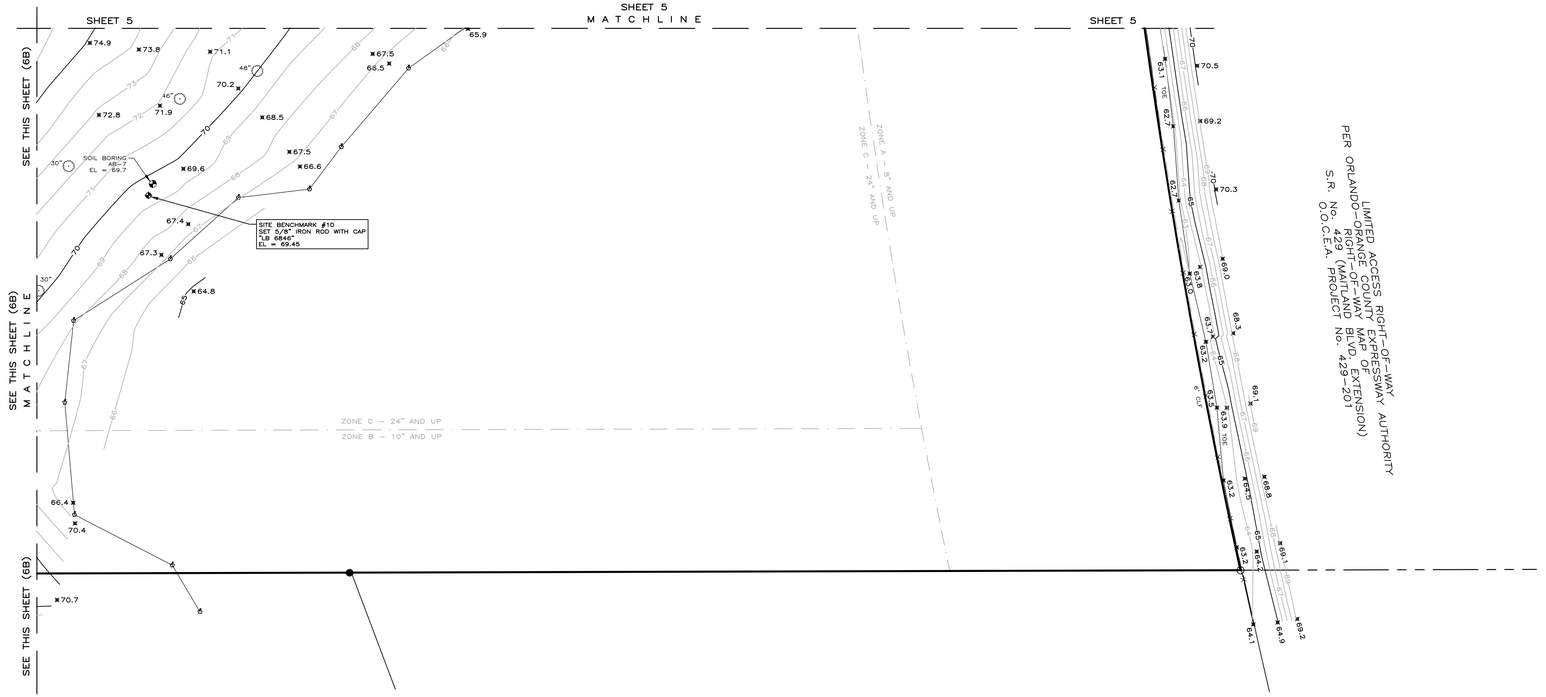
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0 50 100 150

GRAPHIC SCALE 1" = 50'

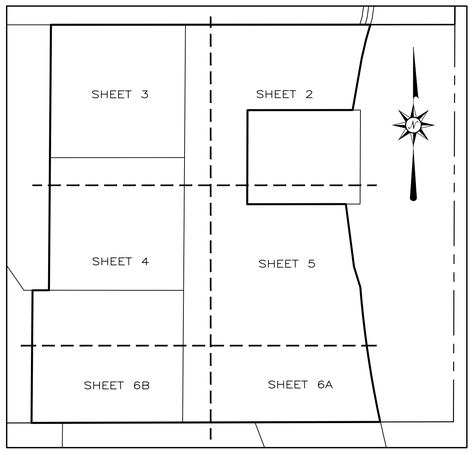


SHEET 6A

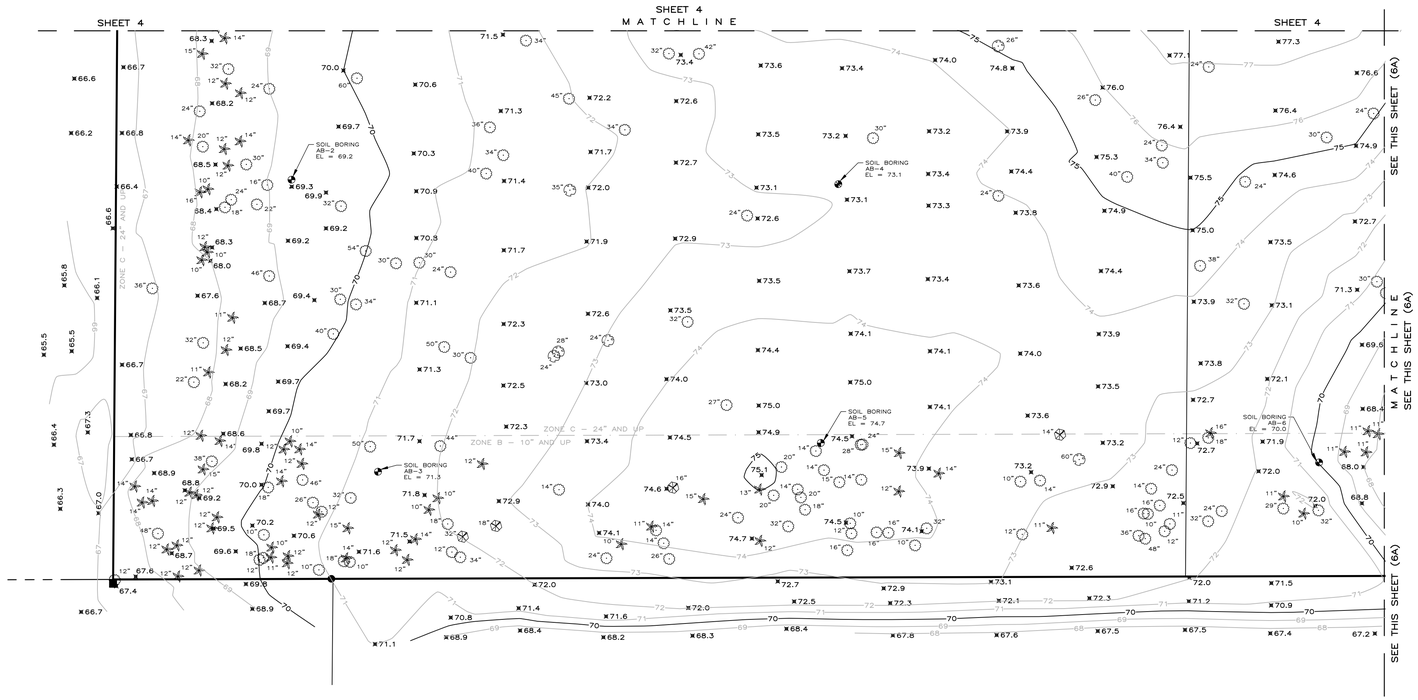
SHEET 6B

SHEET 6A

SHEET 6B



INDEX MAP
NOT TO SCALE



NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

REVISIONS:

DATE OF DRAWING:	13 MAY 2022
MANAGER:	MB
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PROJECT NUMBER:	512-22019
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LAST FIELD WORK:	24 MAY 2022
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COMPUTER FILE:	512019 ALTA.DWG
SCALE:	1"=50'
SHEET 6 OF 6	

OF

M.F.L.P. 2 SPECULATIVE WAREHOUSE
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ORANGE COUNTY, FLORIDA

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LANDSCAPE AND IRRIGATION PLANS

MID-FLORIDA LOGISTICS PARK PHASE - II

CITY OF APOPKA, FLORIDA

AND DETAILS

SHEET INDEX

C-100	COVER SHEET	L-500	LANDSCAPE PLANT LIST
K-100	MASTER KEY PLAN		
L-100	OVERALL BUFFER PLAN & DETAILS	I-101	IRRIGATION PLAN
L-101	LANDSCAPE PLAN	I-102	IRRIGATION PLAN
L-102	LANDSCAPE PLAN	I-103	IRRIGATION PLAN
L-103	LANDSCAPE PLAN	I-104	IRRIGATION PLAN
L-104	LANDSCAPE PLAN	I-105	IRRIGATION PLAN
L-105	LANDSCAPE PLAN	I-106	IRRIGATION PLAN
L-106	LANDSCAPE PLAN	I-500	IRRIGATION DETAILS

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
210 WASSAU STREET
ORLANDO FL 32803 (407) 599-1388

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SIGNATURE AND DATED SEAL

CHRISTOPHER D. RICE LA667122

CONSULTANTS

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE: LANDSCAPE AND IRRIGATION PLANS COVER SHEET

PROJECT ADDRESS

OWNER NAME AND ADDRESS

REV.	DESCRIPTION	DATE
-	-	-

PROJECT NO.	22-165
PHASE	CONSTRUCTION DOCUMENTS
SCALE	NTS
FILE NAME	21-165
DRAWN BY	CDR
CHECKED BY	CDR
DATE	07/18/2023

C-100

EXISTING PHASE-1

NORTHERN BUFFER (10')
EXIST. 6' HIGH METAL FENCE
WITH SHADE TREES 50' O.C.

SEE SHEET L-102
FOR LANDSCAPE
PLAN
SEE SHEET I-102
FOR IRRIGATION
PLAN

EASTERN BUFFER (VARIES)
PROP. 6' HIGH ORNAMENTAL
METAL FENCE WITH
SHADE TREES 50' O.C. WHERE FITS

S.R. 429
(WESTERN BELTWAY)

SEE SHEET L-104
FOR LANDSCAPE
PLAN
SEE SHEET I-104
FOR IRRIGATION
PLAN

SEE SHEET L-106
FOR LANDSCAPE
PLAN
SEE SHEET L-106
FOR IRRIGATION
PLAN

SOUTHERN BUFFER (10')
PROP. 6' CHAINLINK FENCE
WITH SHADE TREES 50' O.C.

WETLAND

EXISTING TREE LINE

PROPERTY LINE

BAHIA GRASS

5' WIDE SIDEWALK

MATCHLINE

0' 50' 100' 200'
SCALE: 1"=100'-0"

NORTH

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
210 VASSAR STREET
ORLANDO, FL 32804 | 407.599.1388

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SIGNATURE AND DATED SEAL

CHRISTOPHER D. RICE LA667122

CONSULTANTS

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE
LANDSCAPE KEY PLAN

REV.	DESCRIPTION	DATE
-	-	

PROJECT ADDRESS

OWNER NAME AND ADDRESS

PROJECT NO.	22-165
PHASE	CONSTRUCTION DOCUMENTS
SCALE	1"=100'-0"
FILE NAME	21+165
DRAWN BY	CDR
CHECKED BY	CDR
DATE	07/28/2023

K-100

EXISTING
PHASE-1

NORTHERN BUFFER (10')
EXIST. 6' HIGH METAL FENCE
WITH SHADE TREES 50' O.C.

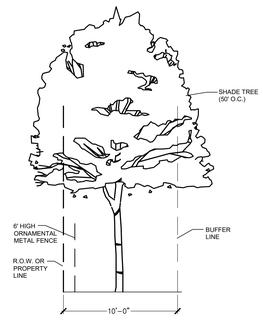
EASTERN BUFFER (VARIES)
PROP. 6' HIGH ORNAMENTAL
METAL FENCE WITH
SHADE TREES 50' O.C. WHERE FITS

S.R. 429
(WESTERN BELTWAY)

SOUTHERN BUFFER (10')
PROP. 6' CHAINLINK FENCE
WITH SHADE TREES 50' O.C.

WETLAND

EXISTING TREE LINE



A 10' BUFFERYARD SECTION
SCALE: 3/16"=1'-0"

SHADE TREE CALCULATIONS

PER SECTION 5.01.08 A OF THE CITY OF APOPKA LDC

TOTAL SITE = 3,105,828 S.F. (71.3 ACRES)

SHADE TREES REQUIRED 1/8000S.F. = 388 TREES

SHADE TREES PROVIDED = 412 TREES

0' 50' 100' 200'
SCALE: 1"=100'-0"
NORTH

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
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SIGNATURE AND DATED SEAL

CHRISTOPHER D. RICE LA667122

CONSULTANTS

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE
MASTER LANDSCAPE PLAN

PROJECT ADDRESS

OWNER NAME AND ADDRESS

REV.	DESCRIPTION	DATE
-	-	-

PROJECT NO.	22-165
PHASE	CONSTRUCTION DOCUMENTS
SCALE	1"=100'-0"
FILE NAME	21-165
DRAWN BY	CDR
CHECKED BY	CDR
DATE	07/28/2023

L-100

BAHIA GRASS

BAHIA GRASS

FUTURE OFFICE
5,303 SF

FUTURE OFFICE

FUTURE OFFICE

MULCH

MULCH

MULCH

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

10'

10'

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE: LANDSCAPE PLAN

OWNER NAME AND ADDRESS

PROJECT ADDRESS

REV.	DESCRIPTION	DATE
-	-	-

PROJECT NO.	22-165
PHASE	CONSTRUCTION DOCUMENTS
SCALE	1"=30'-0"
FILE NAME	21-165
DRAWN BY	LS
CHECKED BY	CDR
DATE	07/18/2023

CONSULTANTS

SIGNATURE AND DATED SEAL

CHRISTOPHER D. RICE LA667122

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L-101

BAHIA GRASS

FUTURE OFFICE 5,303 SF

5' WIDE SIDEWALK

MULCH

MATCHLINE

MATCHLINE

MATCHLINE

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
210 VASSAR STREET
ORLANDO, FL 32804 | 407-599-1388

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CHRISTOPHER D. RICE LA667122

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DRAWING TITLE: LANDSCAPE PLAN

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MID-FLORIDA LOGISTICS - PHASE-II

L-102

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

2" MAINLINE

1/2"

2" MAINLINE

MULCH

1/2"

3/4"

4" MAINLINE SLEEVE WITH 2" WIRE SLEEVE

2" MAINLINE

2" MAINLINE

1"

1"

2" MAINLINE

EXISTING TREE LINE

MATCHLINE

MATCHLINE

MATCHLINE

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE

IRRIGATION PLAN

PROJECT ADDRESS

OWNER NAME AND ADDRESS

REV.	DESCRIPTION	DATE
-	-	-

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PHASE CONSTRUCTION DOCUMENTS
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I-104

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

BOT 60.00
BREAK 65.00
NWL 67.00
TOP 73.00
TOP 80.00
BOT 75.00

BOT 75.00
TOP 80.00
TOP 81.00
BREAK 79.00
BOT 74.00

WEIR ELE: 78.78

2:1

4:1

10'

AR 2
AR 3
AR 5
TD 3
TD 4
TD 6
TD 7
TD 8
TD 9
TD1 5
TD1 7
LS 3
LS 5
LS 6

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE

LANDSCAPE PLAN

OWNER NAME AND ADDRESS

PROJECT ADDRESS

REV.	DESCRIPTION	DATE
-	-	

PROJECT NO. 22-165
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DATE 07/31/2023

L-105

CONSULTANTS

SIGNATURE AND DATED SEAL

CHRISTOPHER D. RICE LA667122

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MATCHLINE

MATCHLINE

MATCHLINE

EXISTING
TREE LINE

WETLAND

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE: LANDSCAPE PLAN

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CONSULTANTS

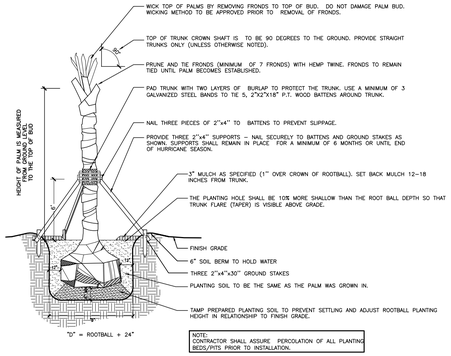
SIGNATURE AND DATED SEAL

CHRISTOPHER D. RICE L4667122

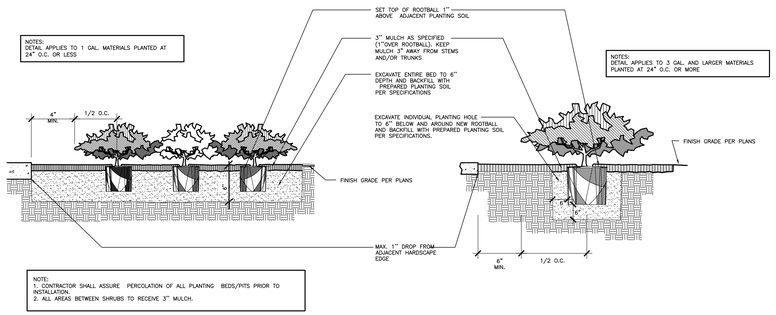
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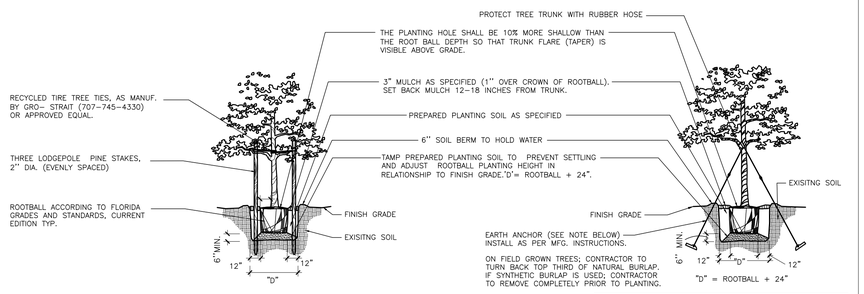
L-106



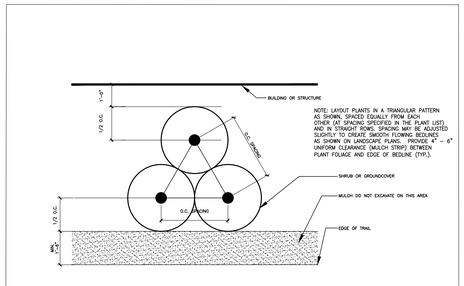
1 TYPICAL PALM TREE PLANTING DETAIL
3/4" = 1'-0"



2 GROUNDCOVER PLANTING DETAIL
3/4" = 1'-0"



3 SHRUB PLANTING DETAIL
3/4" = 1'-0"



4 ON CENTER PLANTING DETAIL
3/4" = 1'-0"

5 SMALL TREE PLANTING DETAIL
NOT TO SCALE

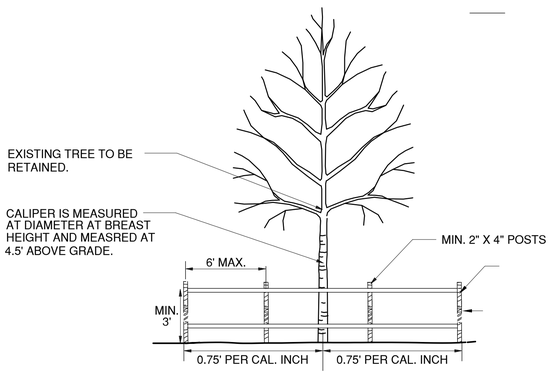
6 LARGE TREE PLANTING DETAILS
NOT TO SCALE

PLANT LIST

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	DESCRIPTION	WATER USE / NATIVE
TREES					
AR	28	ACER RUBRUM 'FLORIDA FLAME'	RED MAPLE	12'–14' HT. X 6' SPRD.; 4" CAL.; FULL	SPACE AS SHOWN GUY
LIM	24	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER CREPE MYRTLE	10'–12" HT., 4'–5' SPRD., 3" CAL.; STANDARD TRUNK	SPACE AS SHOWN GUY
LIN	6	LAGERSTROEMIA INDICA 'NATCHEZ'	WHITE CREPE MYRTLE	10'–12" HT., 4'–5' SPRD., 3" CAL.; STANDARD TRUNK	SPACE AS SHOWN GUY
LS	40	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	12'–14' HT.; 4'–6' SPRD.; 3" CAL.	SPACE AS SHOWN GUY
MG	12	MAGNOLIA GRANDIFLORA 'D.D. BLANCHARD'	SOUTHERN MAGNOLIA	12'–14' HT x 5'–6' SPR.; 4" CAL.	SPACE AS SHOWN GUY
QV	24	QUERCUS VIRGINIANA	LIVE OAK	14'–16" HT x 6'–8' SPR.; 4" CAL.	SPACE AS SHOWN GUY
QVH	51	QUERCUS VIRGINIANA 'HIGHRISE'	HIGHRISE LIVE OAK	12'–14' HT. X 5' SPRD.; 4" CAL.	SPACE AS SHOWN GUY
SP	65	SABAL PALMETTO	CABBAGE PALM	10@10', 62@12', 2@14' CT.; STRAIGHT TRUNK	SPACE AS SHOWN GUY
TD	98	TAXODIUM DISTICHUM	BALD CYPRESS	10'–12' HT.; 4'–6' SPRD.; 2.5" CAL.	SPACE AS SHOWN GUY
TD1	52	TAXODIUM DISTICHUM	BALD CYPRESS	14'–16" HT.; 6'–8' SPRD.; 4" CAL.	SPACE AS SHOWN GUY
UA	79	ULMAS AMERICANA 'ALLEE'	AMERICAN ELM	12'–14' HT X 6'–8' SPRD.; 4" CAL.; FULL	SPACE AS SHOWN GUY
SHRUBS					
CA	20	CRINIUM ASIATICUM	CRINUM LILLY	36" HT. x 36" SPRD.; FULL; 10 GAL.	AS SHOWN
MC	93	MUHLENBERGIA CAPILLARRIS	PINK MUHLY GRASS	24" HT. x 18" SPRD.; FULL; 3 GAL.	30" O.C.
MF	477	MYRCIANTHES FRAGANS	SIMPSON STOPPER	30" HT., 24" SPRD. FULL, 7 GAL.	36" O.C.
PA	49	PLUMBAGO AURICULATA 'IMPERIAL BLUE'	LEADWORT	24" HT. x 18" SPRD., FULL, 3 GAL.	30" O.C.
ST	340	SCHEFFLERA ARBICOLA 'TRINETTE'	VAR. DWARF SCHEFFLERA	24" HT. x 24" SPRD.; FULL TO GROUND; 3 GAL.	30" O.C.
VO	591	VIBURNUM ODORATISSIMUM	SWEET VIBURNUM	24" HT., 24" SPRD. FULL, 3 GAL.	30" O.C.
GROUNDCOVER					
EE	72	ERAGROSTIS ELLIOTTII	ELLIOT'S LOVE GRASS	12" HT., 12" SPRD. FULL, 1 GAL.	24" O.C.
LM	330	LIRIOPE MUSCARI 'EMERALD GODDESS'	BORDER GRASS	14" OA, MIN 7 BIBS., FULL, 1 GAL.	24" O.C.
RI	2374	RHAPHIOLEPIS INDICA 'ALBA'	DWARF INDIAN HAWTHORN	15" HT. x 15" SPRD., FULL, 3 GAL.	24" O.C.
SOD					
	SEE PLANS	PASPALUM NOTATUM	BAHIA GRASS	SOLID, FREE OF PESTS AND DISEASES	FIELD VERIFY QTY.
MULCH					
	SEE PLANS	MINI PINE BARK NUGGETS	MINI PINE BARK NUGGETS	FREE OF DIRT AND DEBRIS	FIELD VERIFY QTY.

LANDSCAPE PLANTING AND CONTRACTOR NOTES:

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL FREE OF PESTS AND DISEASES.
2. ALL PLANTS SHALL BE FLORIDA NO. 1 OR BETTER, AS GRADED IN FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.
3. ALL PLANTS ARE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER BEFORE, DURING, AND AFTER INSTALLATION.
4. ALL SINGLE–TRUNKED TREES SHALL BE STRAIGHT TRUNKED WITH ONE CENTRAL LEADER AND HAVE A FULL, DENSE CROWN.
5. ALL TREES SHALL BE STAKED AND GUYED AS SHOWN IN PLANTING DETAILS.
6. ALL MULCH PLANTING AREAS SHALL BE A MINIMUM OF 3" IN DEPTH.
7. ALL PLANTING AREAS SHALL HAVE A MINIMUM OF 3" TOPSOIL.
8. ALL TREES SHALL BE FREE OF OPEN WOUNDS AND WOUND SCARS IN THE CLEAR TRUNK AREA.
9. ANY SYNTHETIC BURLAP AND/OR WIRE BASKETS MUST BE TOTALLY REMOVED PRIOR TO INSTALLATION OF PLANT MATERIAL. IF NATURAL BURLAP IS USED, IT MAY BE TURNED DOWN 1/3 OF THE ROOTBALL.
10. TREES SHALL NOT BE PLACED WITHIN 7' OF ANY FIRE PROTECTION EQUIPMENT AND NOT WITHIN 5' OF ANY UTILITIES.
11. TREES SHALL NOT BE PLACED WHERE THEY WILL OBSCURE ANY VIEWS TO TRAFFIC, PEDESTRIANS OR SIGNAGE. CONTRACTOR TO FIELD ADJUST TREE LOCATIONS TO AVOID CONFLICTS. IF PLANTING IS QUESTIONABLE; CONTRACTOR TO CONTACT LANDCAPE ARCHITECT OR OWNER'S REPRESENTATIVE TO DISCUSS RELOCATION.
12. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL TREES AND LANDSCAPING MATERIAL WITHIN PROJECT LIMITS AS WELL AS EXISTING TREES IMMIDIATELY ADJACENT TO PROJECT LIMITS. IF THE EXISTING LANDSCAPE, TREES OR OTHER RELATED MATERIALS ARE IMPACTED DURING LANDSCAPE INSTALLATION THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPLACEMENTS, AS WELL AS, ALL OTHER ASPECTS OF REMEDIATION INCLUDING BUT NOT LIMITED TO: TREES, SHRUBS, GROUNDCOVERS, SOD, AND ANY OTHER MATERIALS IMPACTED BY CONSTRUCTION.
13. SOIL CONDITIONS MAY VARY THROUGHOUT THE SITE AND CONTRACTOR TO SHALL PROVIDE PROPER EQUIPMENT FOR PROPER EXCAVATION.
14. CONTRACTOR SHALL INCLUDE THE COSTS OF EXCAVATION, DISPOSAL OF EXCESS MATERIALS, BACKFILL, SOIL AMENDMENTS, SPECIAL BED PREPERATION, MULCH, TREE STAKING AND GUYING, FERTILIZER, WATERING FOR PLANT ESTABLISHMENT, SITE CLEAN–UP AND MAINTAINENCE WITHIN BID NUMBER.
15. CONTRACTOR SHALL SOD ALL DAMAGED GRASS AREAS DISTURBED DURING CONSTRUCTION. SEE LANDSCAPE SPECIFICATIONS FOR SOD INSTALLATION.
16. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, IN FULL, ALL LANDSCAPE PLANTING AREAS, UNTIL THE JOB IS ACCEPTED IN FULL BY THE OWNER. "IN FULL" MEANS WATERING, PEST CONTROL, MULCHING, MOWING, FERTILIZING AND RESETTING TREES THAT ARE OUT OF PLUMB.
17. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL INSTALLED PLANT MATERIAL FOR A PERIOD OF ONE CALENDAR YEAR BEGINNING ON THE DATE OF 100% COMPLETION. ANY AND ALL REQUIRED PLANT REPLACEMENTS SHALL BE MADE PROMPTLY AND AT NO ADDITIONAL COST TO THE OWNER.
18. THE LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL PLANT MATERIAL AND PLANTING BED LINES FOR REVIEW BY THE LANDSCAPE ARCHITECT AND OWNER.
19. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL WRITTEN PLANT QUANITIES PRIOR TO INITIATION OF THE WORK. IN THE EVENT THAT THE PLANS CONTRADICT THE PLANT LIST, THE PLANS SHALL RULE.
20. THE LANDSCAPE CONTRACTOR SHALL BE FAMILIAR WITH AND ACCEPT THE EXISTING SITE CONDITIONS PRIOR TO INITIATION OF THE WORK. ANY VARIATION FROM THE SPECIFIED WORK SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
21. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, DRAINAGE STRUCTURES, CURBS, SIDEWALKS, AND ANY OTHER OBJECTS WHICH MIGHT BE DAMAGED DURING THE WORK.
22. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY AND ALL NECESSARY REPAIRS TO DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER OR LANDSCAPE ARCHITECT.
23. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, AND FOLLOWING ALL APPLICABLE LOCAL CODES PERTAINING TO THE PROJECT DURING THE COURSE OF THEIR WORK.



NOTES: FENCING SHALL BE AT LEAST 3' ABOVE GROUND AND MIN. OF 3' BELOW GRADE.
THE MAXIMUM REQUIRED UNDISTURBED AREA SHALL NOT EXCEED 24' FROM CENTER OF TREE.

7 TREE PROTECTION BARRICADE DETAIL
NTS

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR

BAHIA GRASS

BAHIA GRASS

FUTURE OFFICE 5,303 SF

FUTURE OFFICE

FUTURE OFFICE

MULCH

MULCH

MULCH

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

10'

10'

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE: IRRIGATION PLAN

PROJECT ADDRESS

OWNER NAME AND ADDRESS

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-	-	-

PROJECT NO. 22-165
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SCALE 1"=30'-0"
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DRAWN BY LS
CHECKED BY CDR
DATE 07/18/2023

CONSULTANTS

SIGNATURE AND DATED SEAL

CHRISTOPHER D. RICE L4667122

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
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ORLANDO, FL 32804 (407) 648-1388

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I-101

LINE

BAHIA GRASS

FUTURE OFFICE

FUTURE OFFICE
5,303 SF

5' WIDE SIDEWALK

MULCH

2" MAINLINE

2" GATE VALVE

2" IRRIGATION METER

4" SLEEVE

2" SLEEVE

SOLAR-SYNC SENSOR

IRRIGATION CONTROLLER

4" MAINLINE SLEEVE WITH 2" WIRE SLEEVE

02 15"D 46.65

03 15" 49.00

04 15"D 50.54

05 15" 57.50

MATCHLINE

MATCHLINE

MATCHLINE

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
210 N. PARK AVENUE, SUITE 2000
ORLANDO, FL 32801 (407) 481-1388

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I-102

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MULCH

2" MAINLINE

07 1.5" 48.00

06 1.5" 34.00

05 2" 64.00

1-1/2"

0' 15' 30' 60'
SCALE: 1"=30'-0"
NORTH

MID-FLORIDA LOGISTICS - PHASE-II

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MATCHLINE

MATCHLINE

MATCHLINE

2" MAINLINE

1/2"

2" MAINLINE

MULCH

1/2"

3/4"

4" MAINLINE SLEEVE WITH 2" WIRE SLEEVE

2" MAINLINE

2" MAINLINE

1"

1"

1"

2" MAINLINE

EXISTING TREE LINE

MATCHLINE

MATCHLINE

MATCHLINE

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE

IRRIGATION PLAN

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
ORLANDO FL 3280 | TAMPA FL 33606
210 VASSAR STREET

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I-104

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

BOT 60.00
BREAK 65.00
NWL 67.00
TOP 73.00
TOP 80.00
BOT 75.00

WEIR ELE: 78.78

2:1

4:1

AR 2
TD 3
LS 3
TD1 7
TD 6
AR 5
LS 6
AR 3
TD 4
TD 7
LS 5
TD 9
TD1 7
LS 3
AR 3
TD 6
TD1 5
LS 6
AR 3
TD1 7
TD 8
LS 3

10'

BOT 75.00
TOP 80.00
TOP 81.00
BREAK 79.00
BOT 74.00

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

MID-FLORIDA LOGISTICS - PHASE-II

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PROJECT ADDRESS

OWNER NAME AND ADDRESS

PROJECT NO.	22-165
PHASE	CONSTRUCTION DOCUMENTS
SCALE	1"=30'-0"
FILE NAME	21-165
DRAWN BY	LS
CHECKED BY	CDR
DATE	07/18/2023

L-105

CONSULTANTS

SIGNATURE AND DATED SEAL

CHRISTOPHER D. RICE LA667122

BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
ORLANDO, FL 32801 (407) 481-1388
210 S. ROSALIND AVENUE

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MATCHLINE

MATCHLINE

MATCHLINE

WETLAND

0' 15' 30' 60'
SCALE: 1"=30'-0"

NORTH

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE: IRRIGATION PLAN

PROJECT ADDRESS

OWNER NAME AND ADDRESS

REV.	DESCRIPTION	DATE
-	-	-

PROJECT NO.	22-165
PHASE	CONSTRUCTION DOCUMENTS
SCALE	1"=30'-0"
FILE NAME	21-165
DRAWN BY	LS
CHECKED BY	CDR
DATE	07/18/2023

I-106

CONSULTANTS

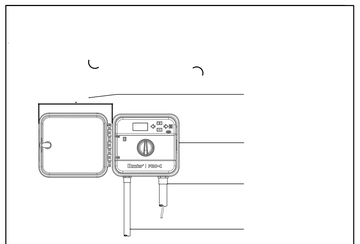
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CHRISTOPHER D. RICE LA667122

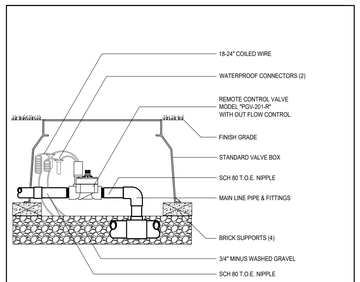
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210 VASSAR STREET
ORLANDO, FL 32804 | 407.481.1388

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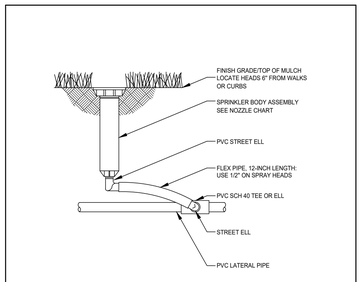
IRRIGATION DETAILS



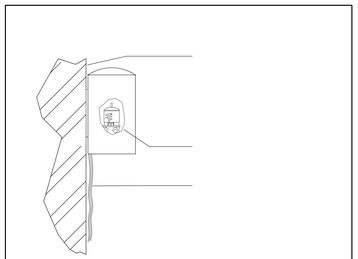
A IRRIGATION CONTROLLER



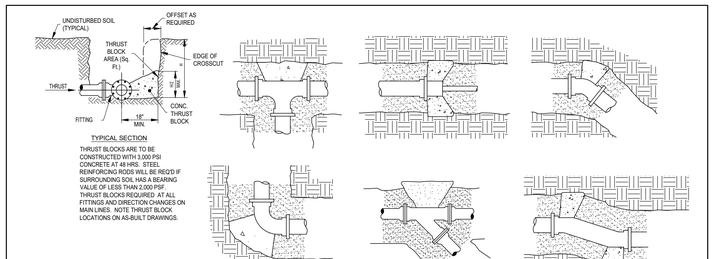
B PGV 151 & 201 GLOBE VALVE



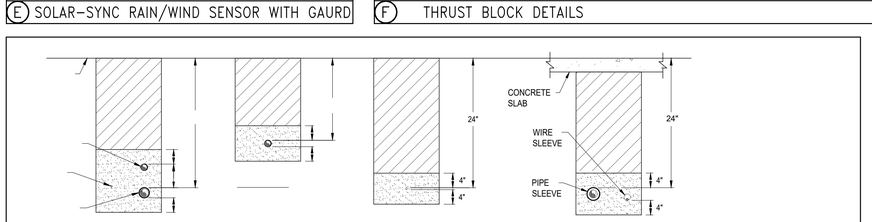
C POP-UP HEAD DETAIL



E SOLAR-SYNC RAIN/WIND SENSOR WITH GAURD



F THRUST BLOCK DETAILS



1. BEDDING SHALL BE PLACED AND LEVELED PRIOR TO INSTALLATION OF BURY ITEM.
2. BACKFILL SHALL BE PLACED IN MAXIMUM 6" LIFTS.
3. SLEEVE ALL PIPE AND WIRE SEPARATELY. SLEEVE 2 X DIA. OF PIPE (MIN 2"). ONE PIPE PER SLEEVE. SLEEVES TO BE PRIMED AND SOLVENT WELDED.
4. ALL PIPE TO BE INSTALLED PER MANUFACTURES SPECIFICATIONS WITH PIPE LABELING FACING UP FOR INSPECTION PURPOSES. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
5. ALL 120 V. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
6. TAPE AND BUNDLE IRRIGATION CONTROL WIRES EVERY 10'. PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION

7. ALL REMOTE CONTROL VALVE WIRING NOT INSTALLED WITH MAINLINE PIPE SHALL BE INSTALLED IN A MINIMUM 2" SCHEDULE 40 GREY ELECTRICAL CONDUIT OR AS APPROVED.
8. "NON-POTABLE" WARNING TAPE TO BE INSTALLED ON ALL PRESSURIZED MAINLINES 12" ABOVE THE PIPE.
9. INSTALL ONE ADDITIONAL SLEEVE SIZED TO MATCH THE LARGEST REQUIRED SLEEVE WITH ENDS TAPED FOR FUTURE USE.
10. SLEEVES TO EXTEND A MINIMUM OF 12" PAST HARDSCAPE PLANTERS, CURBS, SIDEWALKS, ETC. SLEEVES TO BE STAGGERED/OFFSET SO THAT SLEEVE USE IS NOT OBSTRUCTED BY OTHER PIPES.
11. WHERE PRESSURE SUPPLY PIPING IS INSTALLED WITHOUT CONTROL WIRING, A 14 GA. TRACKING WIRE SHALL BE

G TRENCHING DETAILS

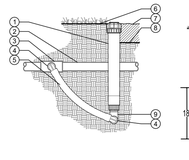


A TYPICAL DRIP TUBE BED

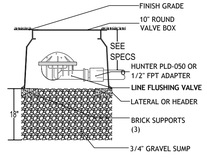
B TYPICAL DRIP TUBE BED

LEGEND:

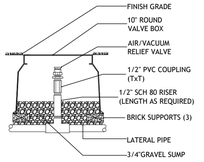
1. ECO INDICATOR - ECOID
2. LATERAL PIPE PER PLAN
3. FPT CONNECTION FROM LATERAL
4. SPIRAL BARB ELBOW - HSBE-XXX
5. FLEX$_{PL}$ TUBING - FLEXSG
6. FINISHED GRADE IN TURF
7. ADJACENT MULCH
8. FINISHED GRADE IN PLANTER BED
9. MARLEX STREET ELBOW



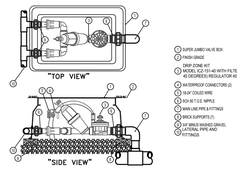
C ECO INDICATOR WITH FLEX TUBING
SCALE: N.T.S.



D FLUSH VALVE AUTOMATIC
SCALE: N.T.S.



E AIR RELIEF PVC RISER
SCALE: N.T.S.



F ICZ-151-40 DRIP CONTROL KIT
SCALE: N.T.S.

I DRIP IRRIGATION DETAILS

IRRIGATION NOTES

1) REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREES AND SHRUBS.

2) ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.

3) ALL POP-UP ROTORS AND SPRAY HEADS SHALL BE INSTALLED USING AN 18" P.V.C. FLEX PIPE CONNECTION. DO NOT USE FUNNY PIPE.

4) ADJUST ALL NOZZLES TO REDUCE WATER WASTE ON HARD SURFACES AND BUILDING WALLS.

5) THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING.

7) ALL CONTROL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING SNAP-TITE CONNECTORS AND SEALANT.

8) THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON A REPRODUCIBLE PAPER (SEPIA OR MYLAR) SHOWING ALL INSTALLED IRRIGATION. A MYLAR OR SEPIA OF THE ORIGINAL PLAN MAY BE OBTAINED FROM THE LANDSCAPE ARCHITECT FOR A FEE. THE DRAWING SHALL LOCATE ALL MAINLINE AND VALVES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES.

9) ALL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES.

10) ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS.

11) THE EXACT HEIGHT OF ANY 12" POP-UP THAT IS SHOWN IN A SHRUB BED SHALL BE DETERMINED BY THE LANDSCAPE ARCHITECT IN THE FIELD.

12) THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIRS AND COST OF ANY DAMAGE CAUSED BY HIS WORK.

13) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP.

14) CONTRACTOR TO USE MIN. OF 12 GAUGE WIRE FOR ALL COMMON WIRES AND 14 GAUGE WIRE FOR ALL CONTROL WIRES. CONTRACTOR ALSO TO PROVIDE 3 SPARE CONTROL WIRES FOR ANY FUTURE USE.

15) CONCRETE THRUST BLOCKS ARE TO BE UTULIZED AT ALL MAINLINE DIRECTION CHANGES.

16) ALL IRRIGATION SHOWN ON PLANS IS SCHEMATIC AND DOES NOT REFLECT ALL FITTINGS AND APPURTENANCES WHICH SHALL BE INCLUDED TO PROVIDE A FULLY FUNCTIONAL IRRIGATION SYSTEM CAPABLE OF PROVIDING 100 PERCENT COVERAGE WITH A 50 PERCENT OVERLAP.

ABSOLUTELY NO IRRIGATION HEADS ON RISERS ARE ALLOWED

SPRAY NOZZLE CHART

TYPE	SYM	NOZZLE	NOZZLE PATTERN	GPM
MP1000 8'-15' radius	A	MAROON	90° ADJUSTABLE ARC	.21
	B	MAROON	180° ADJUSTABLE ARC	.42
	C	LT. BLUE	210° ADJUSTABLE ARC	.49
	D	LT. BLUE	270° ADJUSTABLE ARC	.63
	E	OLIVE	360° ARC	.84
MP2000 13'-21' radius	F	BLACK	90° ADJUSTABLE ARC	.43
	G	BLACK	180° ADJUSTABLE ARC	.77
	H	GREEN	210° ADJUSTABLE ARC	.86
	I	GREEN	270° ADJUSTABLE ARC	1.10
	J	RED	360° ARC	1.48
MP3000 22'-30' radius	K	BLUE	90° ADJUSTABLE ARC	.86
	L	BLUE	180° ADJUSTABLE ARC	1.82
	M	YELLOW	210° ADJUSTABLE ARC	2.12
	N	YELLOW	270° ADJUSTABLE ARC	2.73
	O	GRAY	360° ARC	3.64
STRIPS & CORNERS	P	TURQUOISE	45°-105° ADJUSTABLE ARC	.45
	Q	IVORY	5'x15' LEFT STRIP	.22
	R	COPPER	5'x15' RIGHT STRIP	.22
	S	BROWN	5'x30' SIDE STRIP	.44
BUBBLERS AND MICRO-SPRAYS	T	PCN10	0.50 GPM FLOOD BUBBLER	.50
	U	PCN50	1.00 GPM FLOOD BUBBLER	1.00
	V	SR-4Q	90° 4' RADIUS	.22
	W	SR-4H	180° 4' RADIUS	.44
MP800 6'-12' radius	AA	ORANGE	90° ADJUSTABLE ARC	.23
	BB	ORANGE	180° ADJUSTABLE ARC	.42
	CC	ORANGE	210° ADJUSTABLE ARC	.43
	DD	GREEN	360° ARC	.78

IRRIGATION QUANTITIES

SYMBOL	DESCRIPTION	QUANTITIES
-----	HUNTER INDUSTRIES 'PLD-06-18' DRIP TUBING	+/-15,565 LF
□	HUNTER IND. 'PCN-10' AND 'PCN-50' BUBBLER NOZZLES ON FLEX PIPE	268
	HUNTER 'ICV-FS-AS-40' SERIES ELECTRIC VALVE WITH ACCU-SET PRESSURE REGULATOR 1-1/2" + 2"	5
	HUNTER 'ICZ-101-25' DRIP CONTROL VALVE KIT WITH PRESSURE REGULATION 1-1/2"	2
C	HUNTER ICC2 CONTROLLER, 'I2C-800-PP WITH ICM-800 AND ICM-2200 MODULES. INSTALL WITH A SOLAR-SYNC SENSOR AND BY-PASS BOX. GROUND WITH AN 8' COPPER CLAD ROD.	1
	HUNTER SOLAR-SYNC SENSOR	1
	2" IRRIGATION RE-USE METER TO PROVIDE A MINIMUM 80 GPM AT 60 PSI	1
	2" IRRIGATION BRASS GATE VALVE	1
———	LATERAL LINE - SCH 40 PVC - SIZE PER PLAN	SEE PLAN
-----	2" MAINLINE - SCH 40 PVC SIZE PER PLAN	SEE PLAN
▬	SLEEVING - SCH. 40 PVC MIN. DEPTH OF 24"	SEE PLAN

WATERING SCHEDULE

ZONE #	WATER TYPE	WATERING TIME	GAL. PER MINUTE	GAL. PER WATERING	PRECIP. IN INCHES
1	BUBBLER	15 MIN.	57.50 GPM	862.50 GPW	0.43"
2	DRIP *	60 MIN.	46.65 GPM	2,799.00 GPW	0.43"
3	BUBBLER	15 MIN.	49.00 GPM	735.00 GPW	0.43"
4	DRIP *	60 MIN.	50.54 GPM	3,032.40 GPW	0.43"
5	BUBBLER	15 MIN.	64.00 GPM	960.00 GPW	0.43"
6	BUBBLER	15 MIN.	34.00 GPM	510.00 GPW	0.43"
7	BUBBLER	15 MIN.	48.00 GPM	720.00 GPW	0.43"
	TOTAL	3 HRS-15 MIN.	349.69 GPM	9,618.90 GPW	
WATERING SCHEDULE & USAGE CALCULATIONS		19,237.80 GAL / WEEK - SUMMER (MAR 15-OCT 14 (2 TIMES /WEEK))			
		9,618.90 GAL / WEEK - WINTER (OCT 15-MAR 14 (1 TIME/WEEK))			
		750,274.20 GAL / YEAR (78 WATERINGS PER YEAR)			
		525,191.94 GAL / YEAR W/ 30% REDUCTION FOR SOLAR-SYNC			

**ZONE RUN TIMES SHOWN ARE FOR AFTER PLANT ESTABLISHMENT PERIOD (90 DAYS).

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730 VASSAR STREET
ORLANDO, FL 32804 (407) 648-1388

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SIGNATURE AND DATED SEAL

CHRISTOPHER D. RICE L#6667122

CONSULTANTS

MID-FLORIDA LOGISTICS - PHASE-II

DRAWING TITLE: IRRIGATION DETAILS

REV.	DESCRIPTION	DATE
-	-	-

PROJECT ADDRESS

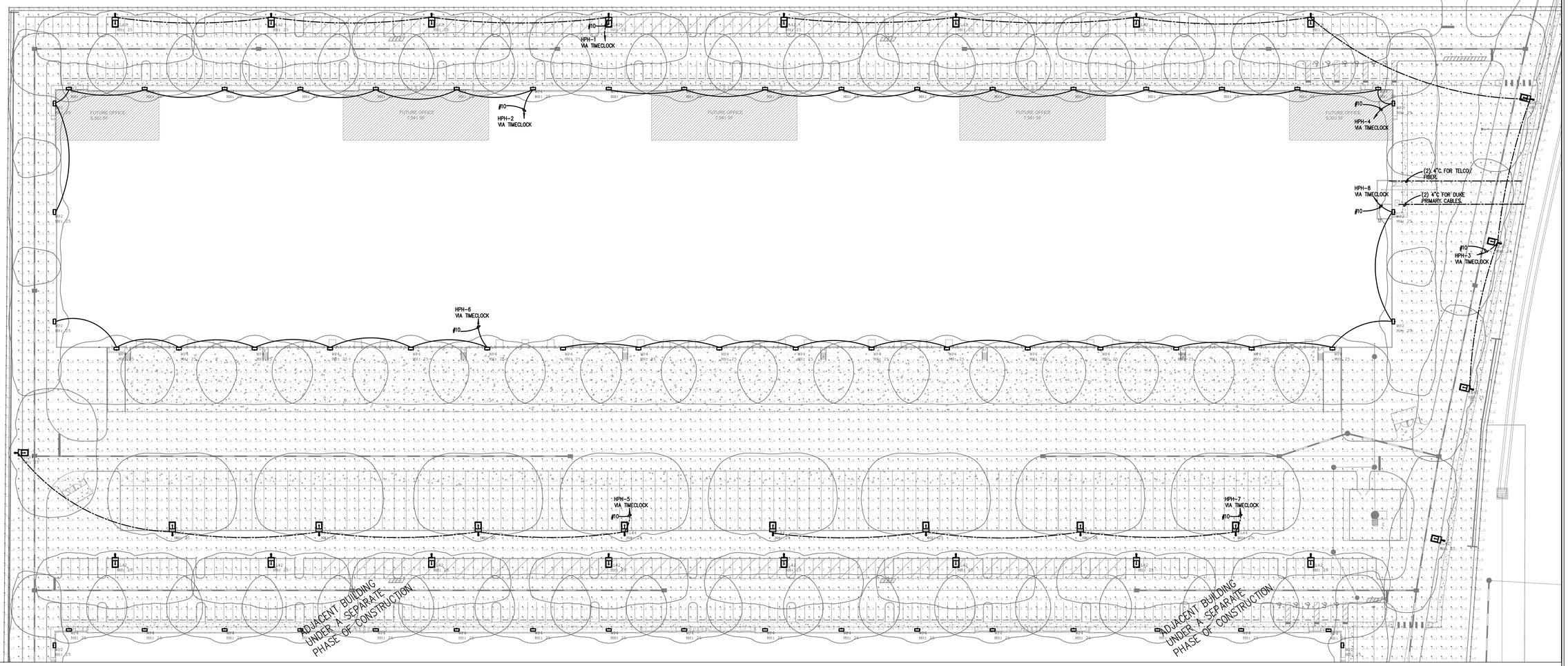
OWNER NAME AND ADDRESS

PROJECT NO.	22-165
PHASE	CONSTRUCTION DOCUMENTS
SCALE	NTS
FILE NAME	21-165
DRAWN BY	LS
CHECKED BY	CDR
DATE	07/28/2023

I-500

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	MANUFACT	Description	Lum. Watts	LLF	BUG Rating	Lum. Lumens
	12	WP2	SINGLE	COOPER LIGHTING SOLUTIONS - McGRAW-EDISO	GWC-SA2C-740-D-BL2	113	0.912	B2-U0-G3	14461
	68	WP4	SINGLE	COOPER LIGHTING SOLUTIONS - McGRAW-EDISO	GWC-SA2C-740-D-BL4	113	0.912	B2-U0-G4	14225
	19	SL44	SINGLE	COOPER LIGHTING SOLUTIONS - McGRAW-EDISO	GALN-SA4C-740-D-SL4-HSS	213	0.912	B2-U0-G4	22877
	20	SL42	SINGLE	COOPER LIGHTING SOLUTIONS - McGRAW-EDISO	GALN-SA4C-740-D-SL2-HSS	213	0.912	B2-U0-G4	22762

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Boundary	Illuminance	Fc	0.00	0.9	0.0	N.A.	N.A.
Overall Calcs	Illuminance	Fc	0.69	7.9	0.0	N.A.	N.A.
Bldg 100 Auto Parking	Illuminance	Fc	3.31	7.9	1.1	3.01	7.18
Bldg 100 Truck Court	Illuminance	Fc	1.72	3.5	0.5	3.44	7.00
Bldg 200 Auto Parking	Illuminance	Fc	3.22	6.5	1.1	2.93	5.91
Bldg 200 Truck Court	Illuminance	Fc	1.91	3.7	0.8	2.39	4.63



1 E3.1 **ELECTRICAL SITE PLAN**

SCALE: 1"=50'-0" (0 — 100)

N

Client:

ARCO NATIONAL CONSTRUCTION

5015 NW Canal Street, Suite 110
Riverside, MO 64150
Tel: 816.282.6324

C4 ARCHITECTURE

135 West Central Blvd., Suite 400
Orlando, Florida 32801
Tel: 407.363.6136
AA26001097

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Project:

MID FLORIDA LOGISTICS PARK SOUTH

BUILDING 100

352,268 SF WAREHOUSE

SR 429 AND PETERSON ROAD

APOPKA, FL 32703

Scope Drawings:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

Drawing Title:

ELECTRICAL SITE PLAN

Revisions:

Issue Date	Drawn By	Checked By
06/09/23	TMT	DDA

Certified By:

CLEAR ENGINEERING
C.A. No. 27848
13651 CRYSTAL RIVER DRIVE
ORLANDO, FL. 32828
phone: (407)277-3431
email: darius@clear-engr.com

Darius D. Adams, P.E.
FL PE No. 53236

Drawing Number:

E3.1

Project Number:

23001

DEFENDER SERIES

Spitzer ARCHITECTURAL LIGHTING — OUTDOOR

Wall Mount Linear Vandal Resistant Luminaire

Type: WPLE

Fixture:



TECHNICAL DATA

PRODUCT	DFLV-2	DFLV-3	DFLV-4
SIZE	2FT	3FT	4FT
WATTAGE	20W / 30W / 40W / 50W		
LUMENS	2000 LM - 5000 LM		
EFFICACY	100 LM/W		
CC	Color Changeable 3000K/ 4000K/ 5000K		
VOLTAGE	120 - 277V		
IP RATING	Wet Location Rated		
CONTROL	0 - 10V / Photo Control / Motion Sensor		
CRI	>80		
FINISH	Dark Bronze		

DESCRIPTION
The DFLV Series is an aesthetically pleasing, vandal proof outdoor wall mount luminaire. With its robust and tamper-proof construction, full cut off and multiple lengths, it can illuminate any given door opening and achieve completely unobtrusive illumination of a space or path of egress.

INTENDED USE
The DFLV series is ideal for egress lighting, illuminating overhead doorways, architectural drip edge, building faces, facades, entrances, exits, and more.

ACCESSORY OPTIONS
(SOLD SEPARATELY)

FSP-3X1
Wattstopper



BRI823-B-D
Outdoor Sensor



RC-100
Remote Control

ETL Intertek · RoHS COMPLIANT · DLC · 5 YEAR LIMITED WARRANTY · 50000 HOURS L70 @ 25°C · DIMMABLE · IP66 Rated Outdoor Housing

ORDERING INFORMATION

STANDARD ITEM: **DFLV-4-40L-U-CC-C1-DB**

OR CUSTOMIZE BELOW:

DFLV - 2 - 20L - U - CC - C2 - WH - EM1 - MMB

Series	Size	Lumen Package	Voltage	CCT	Control	Finish	EM	Mounting*
DFLV - (Wall Mount Linear Vandal Resistant Luminaire)	**2** - (2 FT)	**20L** - (2000 lm/ 20W) **CL** - (Custom Lumen)*	**U** - (120 - 277V)	**CC** - Color Changeable (3000K/ 4000K/ 5000K) **CS** - (Custom Single Color)*	**C1** - (0-10V standard) **C2** - (Button on/off photocell)* **C3** - (BRI823-B-D)* **C4** - (FSP-3X1)* **RC-100** - (C3 Remote Control)*	**DB** - (Dark Bronze) **BL** - (Black) * **WH** - (White)* **RAL** - (Custom)*	**EM1** - (Emergency Option 9W) **EM2** - (Inverter Option 12W)* **EM3** - (Emergency Cold-pack Option 6W)*	**MMB** - (Mullion Mount Bracket)*
	3 - (3 FT)	**30L** - (3000 lm/ 30W) **40L** - (4000 lm/ 40W) **CL** - (Custom Lumen)*						
	4 - (4 FT)	**30L** - (3000 lm/ 30W) **40L** - (4000 lm/ 40W) **50L** - (5000 lm/ 50W) **CL** - (Custom Lumen)*						

*Additional cost and/or lead time on customized fixtures may apply.

DEFENDER SERIES

Spitzer ARCHITECTURAL LIGHTING — OUTDOOR

Wall Mount Linear Vandal Resistant Luminaire

Type:

Fixture:

CONSTRUCTION
Marine grade heat treated extruded aluminum with A383 or equivalent grade die-cast aluminum end caps. Lens and Housing have a limited-lifetime warranty.

FINISH
Galvanized and finished with rust and corrosion proof polyester powder coating. Dark Bronze is the standard color. Custom colors available.

LENS
UV stabilized diffused matte finish polycarbonate secured to fixture via integral concealed hinge and captive stainless steel tamper proof TORX® head screws. Tamper proof TORX® Screwdriver Bit is included.

ELECTRICAL
Outdoor rated LED driver that accommodates input voltages from 120-277 AC at 50/60Hz with 0-10v dimming as standard. Driver is programmable. Lumen maintenance is L70=50,000 hours.

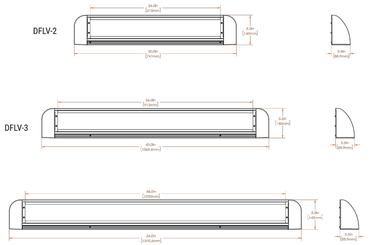
LISTINGS
ROHS, FCC, ETL Certified, Wet Location.

MOUNTING
Wall mount. Mullion mount bracket optional.

*IES files available upon request



DIMENSIONS



Seminole Pole incorporated

Web: www.seminolepole.com Email: seminolepole@earthlink.net
Toll Free# 866-246-5545 Fax# 229-524-2866

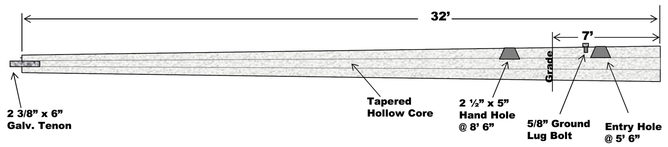
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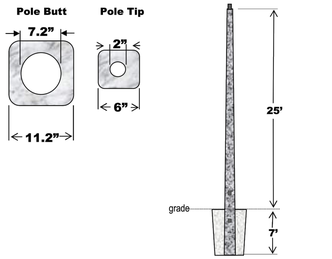
Project:

32’ Pole O.A. | **7’** Burial Depth | **140mph** Wind Speed | **3 sec.** Gust | **11.0** EPA Capacity

3,500# Min. Brk. Strength | **.500”** Strand | **270k** Kip’s | **6,500psi** Concrete | **1800#** Pole Weight

****Drawing Not to Scale****





Project	Homestead Park of Commerce	Catalog #		Type	WPLx
Prepared by	Clear Engineering	Notes		Date	



McGraw-Edison

GWC Galleon Wall

Wall Mount Luminaire

Product Features

Light Ahhchitect™

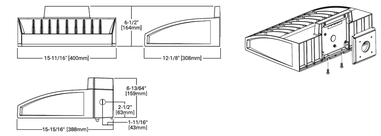
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- Optical Configurations page 3
- Energy and Performance Data page 4
- Control Options page 6

Quick Facts

- Choice of thirteen high-efficiency, patented AccuLED Optics™
- Downward and inverted wall mounting configurations
- Eight lumen packages from 3,215 up to 17,056
- Efficacies up to 154 lumens per watt

Dimensional Details



Product Certifications

DLC Premium · DLC · DLC Premium · ISTI Approved · CERTIFIED · FC · IP66 · IDA · 5 YEAR · BAA

Connected Systems

- WaveLinx
- Enlighted

NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

McGraw-Edison | GWC Galleon Wall

Ordering Information

SAMPLE NUMBER: **GWC-SA2C-740-U-T4FT-GM**

Product Family [1]	Light Engine: Configuration	Light Engine: Drive Current	Color Temperature	Voltage	Distribution	Finish
GWC=Galleon Wall **GAA-GWC**=Galleon Wall, Buy American Act Compliant [38] **GTAA-GWC**=Galleon Wall, Trade Agreements Act Compliant [38]	**SA1**=1 Square **SA2**=2 Squares [4] **A**=4000mA **B**=8000mA **C**=10000mA **D**=12000mA [4,11]	**A**=350mA **B**=530mA **C**=700mA **D**=1000mA [4,11]	**722**=703CRI, 2200K **727**=703CRI, 2700K **730**=703CRI, 3000K **735**=703CRI, 3500K **740**=703CRI, 4000K **750**=703CRI, 5000K **760**=703CRI, 6000K **827**=803CRI, 2700K **830**=803CRI, 3000K **AMB**=Amber, 590nm [4, 41]	**U**=120-277V **1**=120V **2**=208V **3**=240V **4**=277V **5**=347V **6**=480V **9**=347V [7, 8] **DV**=277-480V DuroVolt Drivers [4, 40]	**T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SWQ**=Type V Narrow **SMQ**=Type V Square Medium **SWQ**=Type V Square Wide **SL2**=Type II w/Split Control **SL3**=Type III w/Split Control **SL4**=Type IV w/Split Control **SLL**=90° Split Light Eliminator Left **SLR**=90° Split Light Eliminator Right **RW**=Rectangular Wide Type I **AFR**=Automotive Rear **AFL**=Automotive Frontline	**[blank]**=Standard Pole Mount Arm **GM**=Standard Pole Mount Arm with Quick Mount Adaptor **PA**=Pole Mount, Adjustable **WA**=Wall Mount, Fixed **T4W**=Wall Mount Arm, Fixed **WM**=Wall Mount, Fixed **WA**=Wall Mount, Adjustable **UP**=Upswept Arm	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **RAL****=Custom Color

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately) [12]
F=Single Fused (120, 277 or 347V. Must Specify Voltage) **DF**=Double Fused (208, 240 or 480V. Specify Voltage) **10K**=10kV UL 1449 listed surge protective device [4] **3L**=Two Circuits [4] **HA**=50°C High Ambient **HSS**=Installed House Side Shield [4] **GRSBK**=Glare Reducing Shield, Black [4] **GRSWH**=Glare Reducing Shield, White [4] **LCF**=Light Square Trim Painted to Match Housing [4] **TH**=Tool-less Door Hardware [4] **CC**=Coastal Construction finish [4] **BLG**=Bird Guard [4] **XH**=Optics Rotated 90° Right **ANS1445**=After Hours Dim, 5 Hours [4] **ANS2445**=After Hours Dim, 6 Hours [4] **ANS2545**=After Hours Dim, 7 Hours [4] **ANS3545**=After Hours Dim, 8 Hours [4] **DALI**=DALI Driver [4]	**BPC**=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) [4] **PR**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PR7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [4] **SPS1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [4] **SPS2**=Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting [4,24] **SPS4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [4,24] **SPEX7X**=Dimming Motion Sensor, limited square count, 9'-20' mounting [4] **SPEX4X**=Dimming Motion Sensor, limited square count, 21'-40' mounting [4] **ZW**=WaveLinx Module and 4-PIN Receptacle [4] **ZD**=WaveLinx Module with DALI driver and 4 PIN Receptacle [4,39] **ZWPSWXX**=WaveLinx Sensor Only, 7'-15' [4,34] **ZWPSXX**=WaveLinx Sensor Only, 15'-40' [4,34] **ZW-WOFBXX**=WaveLinx Sensor with Bluetooth, 7'-15' [4,34] **ZW-WOFXX**=WaveLinx Sensor with Bluetooth, 15'-40' [4,34] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height [4,34,41] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height [4,34,41]	**GA/RA1016**=NEMA Photocontrol Multi-Tap - 105-285V **GA/RA1027**=NEMA Photocontrol - 480V **GA/RA1027-347**=NEMA Photocontrol - 347V **GA/RA1035**=Photocontrol Shorting Cap **GA/RA1214**=120V Photocontrol **MA1152**=1.5kV Surge Module Replacement **MA1036-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1187-XX**=(2)180° Tenon Adapter for 2-3/8" O.D. Tenon **MA1167-XX**=(3)120° Tenon Adapter for 2-3/8" O.D. Tenon **MA1188-XX**=(4)90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1189-XX**=(2)90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1190-XX**=(3)90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1191-XX**=(2)120° Tenon Adapter for 2-3/8" O.D. Tenon **MA1038-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon **MA1039-XX**=(2)180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1192-XX**=(3)120° Tenon Adapter for 3-1/2" O.D. Tenon **MA1193-XX**=(4)90° Tenon Adapter for 3-1/2" O.D. Tenon **MA1194-XX**=(2)90° Tenon Adapter for 3-1/2" O.D. Tenon **MA1195-XX**=(3)90° Tenon Adapter for 3-1/2" O.D. Tenon **EA4239**=Adapter kit for mounting to 3-3/4" O.D. Tenon **LS/HSS**=Field Installed House Side Shield [4,14] **LS/GRSBK**=Glare Shield, Black [4,14] **LS/GRSWH**=Glare Shield, White [4,14] **LS/PFS**=Perimeter Shield, Black [4] **WGL-CP-10A**=WaveLinx Outdoor Control Module [4, 34] **WGA-XX**=WaveLinx Wireless Sensor, 7'-15' Mounting Height [4, 34, 41, 44] **WGX-XX**=WaveLinx Wireless Sensor, 15'-40' Mounting Height [4, 34, 41, 44]

NOTES:
1. Designer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP0150010 for additional support information.
2. Design Lights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Not available with Textured finish and spray heated to over 1200 hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
4. Not available with Platinum Edition.
5. Drive current 1200mA not available with color temperatures 722, 727 or 730 when either HA or HSS options are selected.
6. Tilt option not SS rated. Not available with Coastal Construction (CC) option.
7. Not available with voltage options 1, 2 or 3.
8. Not available with 10kV surge module. Must be ordered as a customer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
9. Adjustable Slipfitter arm limited to vertical 0° tenon. For mounting to 2-3/8" O.D. tenons, order accessory GMA208. Not available with SPA or SPB at 480V.
10. EL is not available with SPB at 347V or 480V. Not available with WaveLinx or Enlighted sensors, or DSNY surge option.
11. Requires PR7.
12. Not for use with SPA with sensor color (BPU, BZ or BK).
13. WAC Gateway required to enable field configurability: Order WAC-PoE and WPOE-120 (120 V to PoE injector) power supply if needed. WAC not required for LC Bluetooth sensors.
14. Not for use with SPA or SPB.
15. Reverse-bend 700mm +/- 5mm for wildlife and observatory use. Choose drive current A, supplied at 500mA drive current only. Exact luminaire wattage available in IES files. Available with SWQ, SMQ, SLQ, SLR and SLA distributions. Can be used with HSS option.
16. Set of 4 pcs. One set required per Light Square.
17. Not available with HA option.
18. Not for use with SH2, SH3, SH5 or RW options. The light square trim plate is painted black when the HSS option is selected.
19. CC is not available with the 120L DALI, LMR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
20. One required for each light square.
21. Requires PR7.
22. Not for use with 14FT, 16FW or SLA optics.
23. Not for use with ES2 in conjunction with additional photocontrol or other controls systems requiring a separate PR7.
24. Not for use with PR7.
25. Not available with SWQ, SMQ or RW optics. The light square trim plate is painted black when the HSS option is selected.
26. Not for use with 14FT, 16FW or SLA optics. See IES files for details.
27. Not for use with ES2 in conjunction with additional photocontrol or other controls systems requiring a separate PR7.
28. Not for use with PR7.
29. WAC Gateway required to enable field configurability: Order WAC-PoE and WPOE-120 (120 V to PoE injector) power supply if needed.
30. Requires ZW or ZD receptacle.
31. Not available in 1200mA. When used with CSP or HA options, only available with single light square.
32. Not available in 1200mA, UPL or CSP options. Available with single light square.
33. Not available with SL2, SL3, SL4, HA, CSP, PR or PR7 options.
34. Not available with 1200mA, 530mA or 350mA. Not available with -30°C to 50°C. Backbox is non-IP rated. Control option limited to BPC.
35. Compatible with standard 3 Prong receptacle, 5 PIN or 7 PIN ANSI controls.
36. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
37. The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information.
38. Replace LX3 with LX8 (-0' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting.)
39. Not available with 347V.
40. Enlighted wireless sensors are factory-installed requiring network components in appropriate quantities.
41. White sensor shipped on all housing color options.
42. Not available with HSS or GRS options.
43. Not available with SH2, SH3, SH5 or RW options. The light square trim plate is painted black when the HSS option is selected.
44. CC is not available with the 120L DALI, LMR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
45. One required for each light square.
46. Requires PR7.
47. Not for use with 14FT, 16FW or SLA optics.
48. Cannot be used in conjunction with additional photocontrol or other controls systems requiring a separate PR7.
49. Not for use with PR7.
50. WAC Gateway required to enable field configurability: Order WAC-PoE and WPOE-120 (120 V to PoE injector) power supply if needed.
51. Requires ZW or ZD receptacle.
52. Replace XX with sensor color (WH, BZ, or BK).
53. Specify 120V or 277V.
54. Smart device with mobile application required to change system defaults. See controls tech info for details.
55. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
56. For BAA or TAA requirements, accessories sold separately will be separately analyzed under domestic preference requirements.
57. Not available with 1200mA.
58. Backlit drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.eaton.com/surgeand for more information.
59. Not available with 347V. Not available in ungrounded systems.
60. Not available in 1 square configuration at 8000mA or below. Not available with any control option except SPB.
61. 3L not available with ITC, AND or DALI options. Controls and/or battery packs operate only one of the two circuits when 3L is specified. 3L with controls options not available with 347V or 480V.

Product Specifications

Construction
- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics
- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical
- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40°C to 40°C ambient environments; Optional 50°C high ambient (HA) configuration

Mounting
- Gasketed and zinc plated rigid steel mounting attachment
- “Hook-N-Lock” mechanism for easy installation

Finish
- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

Typical Applications
- Exterior Wall, Walkway

Warranty
- Five-year warranty

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology	**D**=Standard Dome Camera **H**=Hi-Res Dome Camera **J**=Remote PTZ Camera	**C**=Cellular, No SIM **A**=Cellular, AT&T **V**=Cellular, Verizon **S**=Cellular, Sprint	**B**=Cellular, Rogers **W**=Wi-Fi Networking w/ Omni-Directional Antenna **E**=Ethernet Networking

Project	Homestead Park of Commerce	Catalog #		Type	SL4x
Prepared by	Clear Engineering	Notes		Date	



McGraw-Edison

GALN Galleon II

Area / Site Luminaire

Product Features

Light Ahhchitect™

Interactive Menu

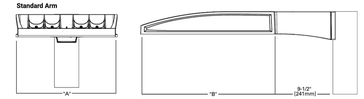
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- Mounting Details page 3
- Optical Distributions page 5
- Product Specifications page 5
- Energy and Performance Data page 6
- Control Options page 10

Quick Facts

- Lumen packages range from 3,300 - 73,500 (33W - 552W)
- 16 optical distributions
- Efficacy up to 159 lumens per watt

Dimensional Details

Standard Arm



Number of Light Squares	Width ‘A’	Housing Length ‘B’	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16”	22”	29 lb	0.95
5-6	22”	22”	39 lb	0.95
7-9	22”	28-1/8”	48 lb	1.1

NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

Product Certifications

DLC Premium · DLC · DLC Premium · 3G VIB · IP66 · LISTED · IDA · BAA · 5 YEAR

Connected Systems

- WaveLinx Lite
- WaveLinx

NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

McGraw-Edison | GALN Galleon II

Ordering Information

SAMPLE NUMBER: **GALN-SA4C-740-U-T4FT-GM**

Product Family [1, 2]	Light Engine: Configuration	Light Engine: Drive Current	Color Temperature	Voltage	Distribution	Mounting	Finish
GALN=Galleon II **GAA-GALN**=Galleon II Buy American Act Compliant [38] **GTAA-GALN**=Galleon II Trade Agreements Act Compliant [38]	**SA1**=1 Square **SA2**=2 Squares **SA3**=3 Squares **SA4**=4 Squares **SA5**=5 Squares **SA6**=6 Squares **SA7**=7 Squares **SA8**=8 Squares **SA9**=9 Squares	**A**=400mA **B**=800mA **C**=1000mA **D**=1200mA [4,11]	**722**=703CRI, 2200K **727**=703CRI, 2700K **730**=703CRI, 3000K **735**=703CRI, 3500K **740**=703CRI, 4000K **750**=703CRI, 5000K **760**=703CRI, 6000K **827**=803CRI, 2700K **830**=803CRI, 3000K **AMB**=Amber, 590nm [4, 41]	**U**=120-277V **1**=120V **2**=208V **3**=240V **4**=277V **5**=347V **6**=480V **9**=347V [7, 8] **DV**=277-480V DuroVolt Drivers [4, 40]	**T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SWQ**=Type V Narrow **SMQ**=Type V Square Medium **SWQ**=Type V Square Wide **SL2**=Type II w/Split Control **SL3**=Type III w/Split Control **SL4**=Type IV w/Split Control **SLL**=90° Split Light Eliminator Left **SLR**=90° Split Light Eliminator Right **RW**=Rectangular Wide Type I **AFR**=Automotive Rear **AFL**=Automotive Frontline	**[blank]**=Standard Pole Mount Arm **GM**=Standard Pole Mount Arm with Quick Mount Adaptor **PA**=Pole Mount, Adjustable **WA**=Wall Mount, Fixed **T4W**=Wall Mount Arm, Fixed **WM**=Wall Mount, Fixed **WA**=Wall Mount, Adjustable **UP**=Upswept Arm	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **RAL****=Custom Color

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately) [12]
DIM=External 0-10V Dimming Leads [4] **F**=Single Fuse (120, 277 or 347V. Specify Voltage) **DF**=Double Fuse (208, 240 or 480V. Specify Voltage) **20K**=20kV UL 1449 listed surge protective device [4] **3L**=Two Circuits [4] **HA**=50°C High Ambient **HSS**=Installed House Side Shield [4] **GRSBK**=Glare Reducing Shield, Black [4] **GRSWH**=Glare Reducing Shield, White [4] **LCF**=Light Square Trim Painted to Match Housing [4] **TH**=Tool-less Door Hardware [4] **CC**=Coastal Construction finish [4] **BLG**=Bird Guard [4] **XH**=Optics Rotated 90° Right **ANS1445**=After Hours Dim, 5 Hours [4] **ANS2445**=After Hours Dim, 6 Hours [4] **ANS2545**=After Hours Dim, 7 Hours [4] **ANS3545**=After Hours Dim, 8 Hours [4] **DALI**=DALI Drivers	**BPC**=Button Type Photocontrol [4] **PR**=NEMA 3-PIN Photocontrol Receptacle **PR7**=NEMA 7-PIN Photocontrol Receptacle [4] **SPS1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [4] **SPS2**=Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting [4,24] **SPS4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [4,24] **SPEX7X**=Dimming Motion Sensor, limited square count, 9'-20' mounting [4] **SPEX4X**=Dimming Motion Sensor, limited square count, 21'-40' mounting [4] **ZW**=WaveLinx Module and 4-PIN Receptacle [4] **ZD**=WaveLinx Module with DALI driver and 4 PIN Receptacle [4,39] **ZWPSWXX**=WaveLinx Sensor Only, 7'-15' [4,34] **ZWPSXX**=WaveLinx Sensor Only, 15'-40' [4,34] **ZW-WOFBXX**=WaveLinx Sensor with Bluetooth, 7'-15' [4,34] **ZW-WOFXX**=WaveLinx Sensor with Bluetooth, 15'-40' [4,34] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height [4,34,41] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height [4,34,41] **DMG-XX**=0-10V Dimming Wires Pigtailed to Driver Enclosure [4] **DMG-WOFB-XX**=Synapse Occupancy Sensor (7'-15' Mounting) [4] **DMG-WOF-XX**=Synapse Occupancy Sensor (15'-40' Mounting) [4]	**GA/RA1016**=NEMA Photocontrol Multi-Tap - 105-285V **GA/RA1027**=NEMA Photocontrol - 480V **GA/RA1027-347**=NEMA Photocontrol - 347V **GA/RA1035**=Photocontrol Shorting Cap **GA/RA1214**=120V Photocontrol **MA1152**=1.5kV Surge Module Replacement **MA1036-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1187-XX**=(2)180° Tenon Adapter for 2-3/8" O.D. Tenon **MA1167-XX**=(3)120° Tenon Adapter for 2-3/8" O.D. Tenon **MA1188-XX**=(4)90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1189-XX**=(2)90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1190-XX**=(3)90° Tenon Adapter for 2-3/8" O.D. Tenon **MA1191-XX**=(2)120° Tenon Adapter for 2-3/8" O.D. Tenon **MA1038-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon **MA1039-XX**=(2)180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1192-XX**=(3)120° Tenon Adapter for 3-1/2" O.D. Tenon **MA1193-XX**=(4)90° Tenon Adapter for 3-1/2" O.D. Tenon **MA1194-XX**=(2)90° Tenon Adapter for 3-1/2" O.D. Tenon **MA1195-XX**=(3)90° Tenon Adapter for 3-1/2" O.D. Tenon **EA4239**=Adapter kit for mounting to 3-3/4" O.D. Tenon **LS/HSS**=Field Installed House Side Shield [4,14] **LS/GRSBK**=Glare Shield, Black [4,14] **LS/GRSWH**=Glare Shield, White [4,14] **LS/PFS**=Perimeter Shield, Black [4] **WGL-CP-10A**=WaveLinx Outdoor Control Module [4, 34] **WGA-XX**=WaveLinx Wireless Sensor, 7'-15' Mounting Height [4, 34, 41, 44] **WGX-XX**=WaveLinx Wireless Sensor, 15'-40' Mounting Height [4, 34, 41, 44]

NOTES:
1. Designer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP0150010 for additional support information.
2. Design Lights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Not available with Textured finish and spray heated to over 1200 hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
4. Not available with Platinum Edition.
5. Drive current 1200mA not available with color temperatures 722, 727 or 730 when either HA or HSS options are selected.
6. Tilt option not SS rated. Not available with Coastal Construction (CC) option.
7. Not available with voltage options 1, 2 or 3.
8. Not available with 10kV surge module. Must be ordered as a customer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
9. Adjustable Slipfitter arm limited to vertical 0° tenon. For mounting to 2-3/8" O.D. tenons, order accessory GMA208. Not available with SPA or SPB at 480V.
10. EL is not available with SPB at 347V or 480V. Not available with WaveLinx or Enlighted sensors, or DSNY surge option.
11. Requires PR7.
12. Not for use with SPA with sensor color (BPU, BZ or BK).
13. WAC Gateway required to enable field configurability: Order WAC-PoE and WPOE-120 (120 V to PoE injector) power supply if needed. WAC not required for LC Bluetooth sensors.
14. Not for use with SPA or SPB.
15. Reverse-bend 700mm +/- 5mm for wildlife and observatory use. Choose drive current A, supplied at 500mA drive current only. Exact luminaire wattage available in IES files. Available with SWQ, SMQ, SLQ, SLR and SLA distributions. Can be used with HSS option.
16. Set of 4 pcs. One set required per Light Square.
17. Not available with HA option.
18. Not for use with SH2, SH3, SH5 or RW options. A black trim plate is used when HSS is selected.
19. Cannot be used with other control options.
20. Not available with 1200mA, UPL or CSP options. Available with single light square.
21. Not available with SL2, SL3, SL4, HA, CSP, PR or PR7 options.
22. Not available with 1200mA, 530mA or 350mA. Not available with -30°C to 50°C. Backbox is non-IP rated. Control option limited to BPC.
23. Compatible with standard 3 Prong receptacle, 5 PIN or 7 PIN ANSI controls.
24. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory.
25. Not for use with 14FT, 16FW or SLA optics. See IES files for details.
26. Control configuration and/or application required for configuration. See controls page for details.
27. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
28. For BAA or TAA requirements, accessories sold separately will be separately analyzed under domestic preference requirements.
29. Not available with 1 square configuration at 800mA or below. Not available with any control option except SPB.
30. 3L not available with ITC, AND or DALI options. Controls and/or battery packs operate only one of the two circuits when 3L is specified. 3L with controls options not available with 347V or 480V.

Product Specifications

Construction
- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics
- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical
- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40°C to 40°C ambient environments; Optional 50°C high ambient (HA) configuration

Mounting
- Gasketed and zinc plated rigid steel mounting attachment
- “Hook-N-Lock” mechanism for easy installation

Finish
- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

Typical Applications
- Exterior Wall, Walkway

Warranty
- Five-year warranty

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix

MILLER'S ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA, FLORIDA

CONSTRUCTION SITE PLAN

LOCATION MAP



VICINITY MAP



LEGAL DESCRIPTION

PARCEL 1:

COMMENCE AT THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST; THENCE RUN S89°46'33"E ALONG THE SOUTH LINE OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SAID SECTION 10 A DISTANCE OF 185.91 FEET TO A POINT ON THE SOUTHERLY PROJECT OF THE EXISTING EAST RIGHT OF WAY LINE OF SOUTH MCGEE AVENUE, A FIFTY FOOT WIDE RIGHT OF WAY PER OFFICIAL RECORDS BOOK 3183, PAGE 929 AND OFFICIAL RECORDS BOOK 4144, PAGE 0013, ALL OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE DEPARTING SAID SOUTH LINE RUN N00°01'51"W ALONG SAID SOUTHERLY PROJECTION A DISTANCE OF 55.97 FEET TO A POINT ON SAID EXISTING EAST RIGHT OF WAY LINE FOR A POINT OF BEGINNING; THENCE DEPARTING SAID EASTERLY PROJECTION RUN N00°01'51"W ALONG SAID EXISTING EAST RIGHT OF WAY LINE RUN S89°46'33"E A DISTANCE OF 233.82 FEET; THENCE RUN S00°21'08"W A DISTANCE OF 218.28 FEET TO A POINT ON THE EXISTING NORTH RIGHT OF WAY LINE OF STATE ROAD NO. 500 (U.S. 441), ALSO KNOWN AS EAST MAIN STREET, AS SHOWN ON FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP SECTION 75120-2506; THENCE RUN N89°49'31"W ALONG SAID EXISTING NORTH RIGHT OF WAY LINE A DISTANCE OF 216.42 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 16.00 FEET AND A CHORD BEARING N44°55'41"W; THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE AND SAID EXISTING NORTH RIGHT OF WAY LINE THROUGH A CENTRAL ANGLE 89°47'40" A DISTANCE OF 25.08 FEET TO THE POINT OF BEGINNING.

LESS THE FOLLOWING ADDITIONAL RIGHT OF WAY FOR STATE ROAD NO. 500 (U.S. 441): COMMENCE AT THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST; THENCE RUN S89°46'33"E ALONG THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SAID THE EXISTING EAST RIGHT OF WAY LINE OF SOUTH MCGEE AVENUE, A FIFTY FOOT WIDE RIGHT OF WAY PER OFFICIAL RECORDS BOOK 3183, PAGE 929 AND OFFICIAL RECORDS BOOK 4144, PAGE 0013, ALL OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE DEPARTING SAID SOUTH LINE RUN N00°01'51"W ALONG SAID SOUTHERLY PROJECTION A DISTANCE OF 55.97 FEET TO A POINT ON SAID EXISTING EAST RIGHT OF WAY LINE FOR A POINT OF BEGINNING; THENCE DEPARTING SAID EASTERLY PROJECTION RUN N00°01'51"W ALONG SAID EXISTING EAST RIGHT OF WAY LINE A DISTANCE OF 21.32 FEET; THENCE DEPARTING SAID EXISTING EAST RIGHT OF WAY LINE RUN N89°58'09"E, A DISTANCE OF 11.85 FEET; THENCE RUN S65°27'28"E, A DISTANCE OF 22.36 FEET; THENCE RUN N89°57'39"E, A DISTANCE OF 79.27 FEET; THENCE RUN N00°02'21"W, A DISTANCE 10.00 FEET; THENCE RUN N89°49'31"W ALONG SAID EXISTING NORTH RIGHT OF WAY LINE A DISTANCE OF 216.42 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 16.00 FEET AND A CHORD BEARING N44°55'41"W; THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE AND SAID EXISTING NORTH RIGHT OF WAY LINE THROUGH A CENTRAL ANGLE 89°47'40" A DISTANCE OF 25.08 FEET TO THE POINT OF BEGINNING.

PARCEL 2:

THE EAST 308.5 FEET OF THE WEST 726.5 FEET OF THE SOUTH 258.5 FEET OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 (LESS ROAD ON SOUTH) IN SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA. ALSO LESS AND EXCEPT THOSE PORTIONS DESCRIBED IN ORDER OF TAKING RECORDED IN O.R. BOOK 5543, PAGE 3037 AND DEED RECORDED IN INSTRUMENT NUMBER 20190016150, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

REVISION ISSUE LOG

REV #	ISSUE DATE	DESCRIPTION	AFFECTED SHEETS	REMARKS	BY

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EOR: STUART ANDERSON, P.E.

SHEET INDEX

SHT. NO.	DESCRIPTION
CV	COVER SHEET
	CIVIL DRAWINGS
C0	GENERAL NOTES
C0.1	SITE DEMOLITION PLAN
C1	SITE DIMENSION PLAN
C2	SITE UTILITY PLAN
C3	GRADING & DRAINAGE PLAN
C3.1	STORMWATER POLLUTION PREVENTION PLAN
C4	DETAILS
C4.1	CITY DETAILS
SL1	SITE LIGHTING PLAN
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L1	TREE MITIGATION PLAN
L2	LANDSCAPE PLAN
L3	LANDSCAPE DETAILS
L4	IRRIGATION PLAN
L5	IRRIGATION DETAILS
–	SURVEY

INTERPLAN
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AR99238
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SEAL:



Digitally signed by Stuart Anderson
Date: 2023.08.11 10:29:44-04'00'

This item has been digitally signed and sealed by Stuart Anderson on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NO DATE REMARKS
REVISIONS

MILLER'S ALE HOUSE

MILLER'S
ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 6-8-2023

CV
COVER SHEET

CHECKED: CDB DRAWN: GFC

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EROSION CONTROL NOTES

ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL COMPLETION OF CONSTRUCTION.

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM WITH LOCAL CITY/COUNTY AND WATER MANAGEMENT DISTRICT SPECIFICATIONS, SUBJECT TO AUTHORIZED AND APPROVED VARIANCES, WAIVERS AND/OR CONDITIONAL CHANGES.

2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN, CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.

3. ALL AREAS AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.

5. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PROVIDE TREE PROTECTION BARRIERS TO MEET THE REQUIREMENTS OF LOCAL SPECIFICATIONS.

6. THE CONTRACTOR SHALL SELECTIVELY CLEAR ONLY THE AREAS REQUIRED FOR CONSTRUCTION AND STABILIZE ANY POTENTIAL EROSION AREAS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION.

7. CONTRACTOR SHALL KEEP ANY AND ALL SAND, SILT OR OTHER DEBRIS FROM MOVING OFF-SITE. USE AND MAINTAIN SILT FENCE JUST INSIDE OF PROPERTY LINE.

8. CONTRACTOR SHALL BLOCK INTRUSION OF SAND, SILT OR OTHER DEBRIS INTO ANY DRAINAGE OR SANITARY SEWER STRUCTURE OR PIPING ON OR ADJACENT TO SITE.

9. ALL CLEARED AREAS FOR IMPROVEMENT AND/OR CONSTRUCTION SHALL BE WATERED TO PREVENT WIND EROSION.

10. FOR ADDITIONAL INFORMATION AND DETAILS, **SEE F.D.O.T. INDEX NO. 104**.

11. UNLESS SPECIFIED, SILT FENCES MAY BE USED IN LIEU OF HAY BARRIERS.

12. ADDITIONAL POSTS AND RAILS MAY BE NECESSARY TO SECURE AND SUPPORT BARRIERS.

13. ADDITIONAL BARRIER LENGTHS MAY BE REQUIRED BY THE COUNTY ENGINEER OR BY REGULATORY AGENCIES.

14. FILTER FABRIC MUST BE INSTALLED UNDER ALL INLET GRATES, AT ALL TIMES WHEN INLETS ARE NOT PROTECTED BY SILT FENCE OR HAY BALES, UNTIL THE LIMEROCK BASE IS FINISHED AND PRIMED.

15. THE CONTRACTOR IS REQUIRED TO HAVE THE EROSION CONTROL PLAN POSTED IN A VISIBLE LOCATION ON THE CONSTRUCTION SITE AT ALL TIMES.

16. NON STORMWATER DISCHARGES SUCH AS FIRE HYDRANT FLUSHING, ETC SHALL BE DISCHARGED TO EXISTING UNDERGROUND STORMWATER FACILITY.

17. ANY POTENTIALLY HAZARDOUS CHEMICALS BROUGHT ONTO THE JOB SITE WILL BE LIMITED AND KEPT IN ORIGINAL CONTAINER WITH MSDS LABEL.

18. NO SILT SHALL BE TRACKED ONTO PUBLIC ROADWAYS. ANY SILT DEPOSITED ON PUBLIC ROADWAYS SHALL BE REMOVED BY THE END OF THE WORK DAY.

DEMOLITION NOTES

1. PRIOR TO COMMENCEMENT OF DEMOLITION THE CONTRACTOR WILL COORDINATE HIS ACTIVITIES WITH ALL THE UTILITY COMPANIES SERVING THIS AREA. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

2. THE CONTRACTOR IS TO COMPLETELY REMOVE AND DISPOSE OF ALL STRUCTURES AND BUILDINGS THAT IS SO INDICATED INCLUDING FOUNDATIONS, TIMBER AND BRUSH, EXCEPT AS OTHERWISE INDICATED; STUMPS AND ROOTS; EXISTING PAVEMENT; OTHER STRUCTURES AS SHOWN OR REASONABLY IMPLIED IN THE DRAWINGS.

3. EXCEPT IN AREAS WHERE EXISTING TREES SHALL BE PRESERVED, A MINIMUM DEPTH OF REMOVAL SHALL BE (2) FOOT BELOW SUBGRADE IN ROADWAY AREAS AND TO ORIGINAL SOILS ELSEWHERE. WHERE EXISTING BUILDINGS ARE TO BE DEMOLISHED, ALL TRACES OF FOUNDATIONS AND UNDERGROUND UTILITIES ARE TO BE REMOVED (UNLESS OTHERWISE NOTED ON PLANS). THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL WASTE MATERIAL.

4. WHERE PAVING OR STRUCTURES ARE TO BE REMOVED WHICH ABUT OR ARE A PART OF CONNECTED FACILITIES (THAT ARE OFF-SITE), RESTORATION OF ANY DAMAGE THAT MIGHT RESULT FROM DEMOLITION IS TO BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

5. THE LOCATION OF ALL EXISTING UTILITIES, STORM DRAINAGE AND TREES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER OR ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF DEMOLITION THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXISTANCE & LOCATION OF ALL STRUCTURES, UTILITIES & TREES SHOWN OR NOT ON THE PLANS, WHICH WOULD NEED TO BE REMOVED OR PRESERVED.

6. THE CONTRACTOR IS TO COORDINATE THE RELOCATION OR REMOVAL OF ALL OVERHEAD/UNDERGROUND UTILITIES, UTILITY POLES, LIGHTS AND LINES IN THE RIGHT-OF-WAY AND ON THE PROPERTY WITH THE APPROPRIATE SERVICE PROVIDER.

7. THE CONTRACTOR SHALL REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS DISTURBED DURING CONSTRUCTION. (UNDER THE DIRECTION OF A FLORIDA REGISTERED LAND SURVEYOR).

UTILITY SEPARATION NOTES

(1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

(C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

(D) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

(2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(C) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

(3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.

(A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.

(B) EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE.

(4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

UTILITY NOTES

PRIOR TO COMMENCING ANY CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES, INCLUDING WITHOUT LIMITATION POTABLE WATER, RECLAIMED WATER, SANITARY SEWER, AND SERVICE UTILITIES, AT POINTS OF CONNECTION, POINTS OF CROSSING, AND/OR POTENTIAL CONFLICT. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS.

A. GENERAL

1. THE LOCATIONS OF EXISTING UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ETC., SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER ASSUME NO LIABILITY FOR ACCURACY AND COMPLETENESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND TO HAVE THEIR FACILITIES LOCATED IN THE FIELD PRIOR TO ANY WORK.

2. DUE TO GRAPHIC LIMITATIONS OF THE DRAWING SCALE, ALL STORM SEWER, DRAINAGE, WATER AND SANITARY SEWER MAINS, SERVICES, LATERALS, CONNECTIONS, AND APPURTENANCES DEPICTED HEREIN – UNLESS OTHERWISE LOCATED BY DIMENSIONS – REFLECT SCHEMATIC LOCATIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL LOCATIONS IN ACTUAL CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, INCLUDING ANY REQUISITE COORDINATION WITH THE RESPECTIVE GOVERNING AGENCY/UTILITY PROVIDER.

3. ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF APOPKA, AND WILL BE SUBJECT TO THEIR INSPECTION AND ACCEPTANCE.

4. CONTRACTOR SHALL INSPECT PIPING AND MATERIALS BEFORE INSTALLATION TO DETECT APPARENT DEFECTS. MARK DEFECTIVE MATERIALS WITH WHITE PAINT AND PROMPTLY REMOVE FROM SITE.

5. LAY SEWER PIPING BEGINNING AT LOW POINT OF SYSTEM (CONNECTION TO OFF SITE SYSTEM OR PUMP STATION), TRUE TO GRADES AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERTS. PLACE BELL ENDS OR GROOVE ENDS OF PIPING FACING UPSTREAM.

6. CLEAR INTERIOR OF PIPE OF DIRT AND OTHER SUPERFLUOUS MATERIAL AS WORK PROGRESSES. MAINTAIN SWAB OR DRAG IN LINE AND PULL PAST EACH JOINT AS IT IS COMPLETED. PLACE PLUGS IN ENDS OF UNCOMPLETED CONDUIT WHENEVER WORK STOPS.

7. MAINTAIN 36" COVER OVER MAINS, AND 30" OVER SERVICES/LATERALS.

8. WHEN PROPOSED CONSTRUCTION OCCURS AT EXISTING MANHOLES, INLETS, VAULTS, AND OTHER STRUCTURES, THE CONTRACTOR SHALL MODIFY THE STRUCTURES, FRAMES, AND GRATES TO MEET THE PROPOSED GRADES UNLESS OTHERWISE DIRECTED.

9. INSTALL CONTINUOUS LOCATOR TAPE/WIRE, LOCATED DIRECTLY OVER POTABLE WATER MAINS AND SANITARY SEWER MAINS AT 6" TO 8" ABOVE PIPE.

10. WHERE APPLICABLE, UTILITY TRENCHES CROSSING PAVEMENT AREAS SHALL BE BACK FILLED WITH COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH A.A.S.H.T.O.-T-99.

11. CONTRACTOR SHALL PROVIDE SLEEVES FOR IRRIGATION LINES UNDER PAVEMENT. COORDINATE WITH GENERAL CONTRACTOR.

12. ALL TRENCHES EXCAVATED FOR THE PURPOSES OF UTILITY/STORM INSTALLATION SHALL BE KEPT DRY FOR THE DURATION OF UTILITY/STORM CONSTRUCTION. DEWATERING OF UTILITY/STORM TRENCHES MAY BE REQUIRED TO PREVENT FLOTATION OF UTILITY/STORM PIPES DURING INSTALLATION.

13. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN CONSTRUCTION IS COMPLETE FOR WATER, WASTEWATER AND STORMWATER SYSTEMS SO TIMELY CERTIFICATIONS MAY BE INITIATED. SATISFACTORY BACTERIOLOGICAL TEST RESULTS, PRESSURE TEST RESULTS, AND AN AS BUILT SURVEY SHALL BE SUBMITTED TO ENGINEER PRIOR TO FINAL CERTIFICATION.

14. SUITABLE COUPLINGS COMPLYING WITH ASTM SPECIFICATIONS ARE REQUIRED FOR JOINING DISSIMILAR MATERIALS.

15. DEFLECTION TESTS ARE REQUIRED FOR ALL FLEXIBLE PIPE. TESTING REQUIREMENTS: 1) NO PIPE SHALL EXCEED A DEFLECTION OF 5%; 2) USING A RIGID BALL OR MANDREL FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THEN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE; 3) PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES.

B. MATERIALS (WATER)

1. SERVICE PIPE SHALL BE POLYETHYLENE (PE), DR9.

2. WATER MAINS SHALL BE PVC ASTM C900, DR 18 WITH INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM C3139 AND GASKETS PER ASTM F477.

3. DUCTILE IRON PIPE (D.I.P.), IF REQUIRED, SHALL CONFORM TO ANSI/AWWA A21.51/C151, CLASS 50 (MIN.) PIPE FOR ALL SIZES.

4. CORPORATION STOPS SHALL BE 1 1/2" BRASS, EQUIPPED WITH CONNECTIONS COMPATIBLE WITH SERVICE PIPE AND THREADED IN ACCORDANCE WITH SPECIFICATIONS IN AWWA C800. CURB STOPS SHALL BE SIZED TO MATCH THE METER SIZE AND CONFORM WITH AWWA C800 AND AWWA C901.

5. FITTINGS SHALL BE BRASS, CAST AND MACHINED IN ACCORDANCE WITH AWWA C800 AND AWWA C901, WITH COMPATIBLE PIPE CONNECTIONS.

6. SERVICE SADDLES SHALL BE USED FOR ALL SERVICE LINE TAPS. SERVICE SADDLES SHALL BE DOUBLE STRAP, ANCHORED BY A MINIMUM FOUR (4) BOLT PATTERN ON A DUCTILE IRON SADDLE BODY. FOR PVC PIPE, DOUBLE STRAPS SHALL BE CORROSION RESISTANT ALLOY STEEL, SIZED EXACTLY TO THE PIPE OUTSIDE DIAMETER. SEALING GASKETS SHALL BE BUNA-N RUBBER.

7. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED USING BLUE AS A PREDOMINANT COLOR.

C. MATERIALS (SEWER)

1. ALL GRAVITY SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE PIPE (PVC) CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.

2. ALL FITTINGS AND ACCESSORIES SHALL BE MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR PRIOR-APPROVED EQUAL.

3. BEDDING AND INITIAL BACK FILL OVER SEWER MAINS AND SERVICES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER.

D. MATERIALS (STORM)

1. REINFORCED CONCRETE PIPE (RCP): O-RING PIPE SHALL CONFORM TO ASTM C 76 (CLASS III, UNLESS OTHERWISE SPECIFIED) AND AASHTO M 170 STANDARD SPECIFICATIONS, AND ASTM C 443 STANDARD SPECIFICATION FOR JOINTS FOR RCP USING RUBBER GASKETS.

2. ELLIPTICAL RCP SHALL CONFORM TO ASTM C 507 (CLASS III) AND AASHTO M 207 STANDARD SPECIFICATIONS.

3. HDPE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M-25 (3"-10"), M-294 (12" AND LARGER), TYPE S (CORRUGATED OUTSIDE – SMOOTH INSIDE, 4"-60"), AND MP7 (60" TYPE S).

A. BELL/SPIGOT GASKET FOR HDPE PIPE SHALL BE SOIL/SILT TIGHT PER AASHTO SECTION 26 WITH RUBBER GASKET MEETING ASTM F-477.

4. PVC STORM SEWER PIPE (12" OR LESS) AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE PIPE (PVC) CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.

GENERAL NOTES

A. GENERAL

1. ALL INFRASTRUCTURE AND IMPROVEMENTS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE LOCAL JURISDICTION AND WILL BE SUBJECT TO THEIR INSPECTION AND ACCEPTANCE.

2. SITE LOCATION: 323 SOUTH MCGEE AVENUE, APOPKA FL, 32703

3. THIS SITE LIES IN FLOOD ZONE X, AREA OF MINIMAL FLOOD HAZARD F.I.R.M. PANEL 12095C0120H, DATED SEPTEMBER 24, 2021.

4. BOUNDARY, TOPOGRAPHIC, AND TREE SURVEY BY PEC SURVEYING AND MAPPING, LLC, 2100 ALAFAYA TRAIL, SUITE 203, OVEIDO, FL.

5. BENCHMARK – REFER TO TOPOGRAPHIC SURVEY BY PEC SURVEYING AND MAPPING, LLC.

6. LEGAL DESCRIPTION SHOWN HEREIN IS FURNISHED BY SURVEYOR, AND IS INCLUDED FOR PERMITTING AND APPROVAL PURPOSES, AND AS A COURTESY FOR THE CONTRACTOR. INTERPLAN LLC. ASSUMES NO LIABILITY FOR ITS ACCURACY OR COMPLETENESS.

7. SITE GEOTECHNICAL INVESTIGATION PERFORMED BY UNIVERSAL ENGINEERING SCIENCES, LLC. INTERPLAN LLC. ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS, ACCURACY AND COMPLETENESS OF THEIR WORK. THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL ENGINEER'S REPORT FOR THIS SITE AND COMPLY WITH RECOMMENDATIONS CONTAINED THEREIN. IF ADDITIONAL SERVICES ARE REQUIRED, THE CONTRACTOR SHALL MAKE A REQUEST TO THE OWNER.

8. CONTRACTOR SHALL PROVIDE AND INSTALL EROSION CONTROL DEVICES (SILT FENCE OR OTHER METHODS) AT LIMITS OF CONSTRUCTION AND AROUND EACH STORM INLET PRIOR TO CONSTRUCTION, AND SHALL MAINTAIN SAID EROSION CONTROL DEVICES DURING CONSTRUCTION, ALL IN CONFORMANCE WITH CURRENT LOCAL, COUNTY AND STATE CRITERIA.

9. THE SITE SHALL BE CLEARED AS MAY BE NOTED ON THE PLANS, OF ALL OBSTRUCTIONS AND DELETERIOUS MATERIAL SUCH AS FENCES, WALLS, FOUNDATIONS, LOGS, SHRUBS, BRUSH, WEEDS, OTHER VEGETATION, AND ACCUMULATION OF RUBBISH OF WHATEVER NATURE. OFF-SITE DISPOSAL, INCLUDING ANY HAZARDOUS MATERIAL ENCOUNTERED, SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.

10. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY INTERPLAN LLC. OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS PRIOR TO START OF CONSTRUCTION.

11. THE CONTRACTOR SHALL REMAIN SOLELY RESPONSIBLE FOR ANY DESIGN CHANGES WHICH HE MAY INCORPORATE INTO THE PLANS WITHOUT PRIOR WRITTEN CONSENT AND/OR APPROVAL FROM THE OWNER AND THE ENGINEER.

12. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN EACH EXISTING RIGHT OF WAY WITH THE CITY OF APOPKA AND THE FLORIDA DEPARTMENT OF TRANSPORTATION.

13. SCS SOILS: CANDLER-URBAN LAND COMPLEX, 0 TO 5 AND 5 TO 12 PERCENT SLOPES

14. STORMWATER MANAGEMENT IS PROVIDED BY OFFSITE MASTER SYSTEM.

15. THE CONTRACTOR SHALL RESTORE OFF-SITE AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

16. ALL DISTURBED AREAS SHALL BE SODDED.

17. AT LEAST 30 DAYS PRIOR TO ANTICIPATED COMPLETION OF SITE CONSTRUCTION, THE FINAL CERTIFICATION PROCESS WILL BEGIN. THE CONTRACTOR SHALL PROVIDE DOCUMENTS AND INFORMATION, IN A TIMELY MANNER, TO ENGINEER, INCLUDING, WITHOUT LIMITATION:
a. SURVEYED "AS-BUILTS" PER AS-BUILT SURVEY SCOPE IN SPEC MANUAL.
b. COMPACTION AND DENSITY TEST REPORTS, AND
c. PRESSURE TESTING AND BACTERIOLOGICAL TESTING RESULTS, AS REQUIRED, FOR WATER DISTRIBUTION AND/OR WASTEWATER COLLECTION/TRANSMISSION SYSTEMS.

THE CONTRACTOR SHALL HAVE TWO (2) SETS OF AS-BUILT PLANS, SIGNED AND SEALED BY SURVEYOR OF RECORD, ON SITE THE DAY OF THE CIVIL ENGINEERING FINAL PUNCH LIST INSPECTION. THE GENERAL CONTRACTOR IS TO GIVE THE TWO AS-BUILT PLANS TO THE REPRESENTATIVE FROM INTERPLAN COMPLETING THE INSPECTION. IF ANY DEFICIENCIES ARE NOTED, ONE SET OF RED-LINED AS-BUILT PLANS WILL BE GIVEN TO THE GC FOR REVISIONS TO BE MADE. REVISED AS-BUILTS WILL NEED TO BE FORWARDED TO INTERPLAN BEFORE ANY CERTIFICATIONS CAN BE INITIATED.

18. ALL TRAFFIC CONTROL DEVICES, EQUIPMENT AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE LOCAL JURISDICTION AND/OR (FLORIDA) DEPARTMENT OF TRANSPORTATION.

19. PARKING STALLS SHALL CONFORM WITH LOCAL CODE. ACCESSIBLE PARKING SPACES AND ACCESS ROUTES SHALL FURTHER CONFORM WITH CURRENT ADA REQUIREMENTS.

20. HANDICAP PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM WITH CURRENT ADA REQUIREMENTS AND LOCAL ORDINANCE.

21. LANDSCAPE SHALL BE TRIMMED TO ENSURE SIGHT VISIBILITY OF TRAFFIC CONTROL DEVICES.

22. ALL PAVEMENT IS DIMENSIONED TO FACE OF CURB.

23. ALL BUILDING DIMENSIONS AND TIES ARE TO OUTSIDE FACE. SEE ARCHITECTURAL PLANS.

24. ALL CURB RETURN RADII ARE 5' UNLESS NOTED.

25. BUILDING AND SITE IMPROVEMENTS ARE PARALLEL AND PERPENDICULAR TO SOUTHERN PROPERTY LINE.

SITE DATA

SITE AREA		102,623 SF	2.36 AC
EXISTING			
IMPERVIOUS	PAVEMENT/SIDEWALKS	20,969 SF	20.4% 20.4%
	BUILDING	0 SF	0%
TOTAL IMPERVIOUS		20,969 SF	
OPEN SPACE (GREEN)		81,654 SF	79.6%
PROPOSED			
IMPERVIOUS	PAVEMENT/SIDEWALKS	68,762 SF	67% 74%
	BUILDING	7,202 SF	7%
TOTAL IMPERVIOUS		75,964 SF	
OPEN SPACE (GREEN)		26,659 SF	26%

ZONING	MIXED USE DOWNTOWN (MU-D)
FLOOR AREA RATIO	F.A.R. = 0.07

BUILDING HEIGHT	MAX. ALLOWED	PROPOSED
	N/A	28'-7" (1 STORY)

BUILDING SETBACKS	REQUIRED	PROVIDED
FRONT (EAST)	10 FT	438 FT
SIDE (NORTH)	10 FT	79 FT
SIDE (SOUTH)	10 FT	22 FT
SIDE (WEST)	10 FT	19 FT

LANDSCAPE BUFFER		
FRONT (EAST)	5 FT	15 FT
SIDE (NORTH)	5 FT	6 FT
SIDE (SOUTH)	5 FT	10 FT
SIDE (WEST)	5 FT	19 FT

PARKING REQUIRED	REQUIRED	PROVIDED
1 PARKING SPACE PER 3 SEATS 143 SEATS/3 SEATS = 48 PARKING SPACES	48 SPACES	138 SPACES

PARKING PROVIDED	
REGULAR	126 SPACES
COMPACT SPACES	7 SPACES
HANDICAP	5 SPACES
TOTAL	138 SPACES
BICYCLE PARKING	4 SPACES

LEGENDS

	PROPOSED
PROPOSED CONTOUR MEET EXISTING GRADE	73.50 MEG
EDGE OF PAVEMENT	EOP
SIDEWALK	SW
GRADE BREAK	GB
HIGH POINT	HP
SPOT ELEVATION	12.55
DIRECTION OF FLOW AND PERCENT SLOPE	1.8%
STORM SEWER & INLET	
YARD DRAIN INLET	
DOWN SPOUT DRAINS	DSD
SANITARY SEWER & MANHOLE	SS
GREASE TRAP	
CLEANOUT	C.O.
FORCE MAIN	FM
WATER SERVICE	W
WATER MAIN	WM
FIRE HYDRANT	W
DDCVA	
FDC	
WATER METER	
BACKFLOW PREVENTION DEVICE (BFP)	
GATE VALVE	
REDUCER	
UNDERGROUND TELEPHONE	UGT
UNDERGROUND ELECTRIC	UGE
SITE LIGHTING	
TRANSFORMER	T
AIR CONDITIONING UNIT	AC
PARKING SPACE TOTALS	8
DETAIL NUMBER SHEET NUMBER	2 C4
ZONING	B-3
CURRENT LAND USE	VACANT

GC NOTE:

A COPY OF THIS SHEET C0 SHALL BE PROVIDED TO ALL BIDDERS AND SUB-CONTRACTORS.

DISINFECTING & TESTING NOTES

WATER MAINS THAT ARE INCLUDED IN THIS PROJECT THAT WILL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C605. ALL OTHER WATER MAINS INCLUDED IN THIS PROJECT WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C600.

LEAKAGE TESTS ARE REQUIRED AS FOLLOWS: 1) THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE PIPE; 2) EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET; 3) AIR TESTS, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C 828 FOR CLAY PIPE, ASTM C 924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES.

DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C651 DISINFECTING WATER MAINS. SATISFACTORY BACTERIOLOGICAL TEST RESULTS SHALL BE SUBMITTED TO ENGINEER PRIOR TO FINAL CERTIFICATION.

THE CONTRACTOR SHALL MAKE PROVISIONS TO PROTECT THE ACTIVE EXISTING MAIN FROM BACKFLOW CONTAMINATION DURING FILLING, FLUSHING, AND TESTING OF THE NEW MAIN, AS SPECIFIED IN AWWA C651-92.

CONTRACTOR SHALL UTILIZE A JUMPER CONNECTION DURING WATER MAIN TESTING. ALTERNATE TYPES OF BACKFLOW PREVENTION MAY BE UTILIZED AS APPROVED BY INSPECTION STAFF AND ENGIN

DEMOLITION NOTES

1. PRIOR TO COMMENCEMENT OF DEMOLITION THE CONTRACTOR WILL COORDINATE HIS ACTIVITIES WITH ALL THE UTILITY COMPANIES SERVING THIS AREA. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

2. THE CONTRACTOR IS TO COMPLETELY REMOVE AND DISPOSE OF ALL STRUCTURES AND BUILDINGS THAT IS SO INDICATED INCLUDING FOUNDATIONS, TIMBER AND BRUSH, EXCEPT AS OTHERWISE INDICATED; STUMPS AND ROOTS; EXISTING PAVEMENT; OTHER STRUCTURES AS SHOWN OR REASONABLY IMPLIED IN THE DRAWINGS.

3. EXCEPT IN AREAS WHERE EXISTING TREES SHALL BE PRESERVED, A MINIMUM DEPTH OF REMOVAL SHALL BE (2) FOOT BELOW SUBGRADE IN ROADWAY AREAS AND TO ORIGINAL SOILS ELSEWHERE. WHERE EXISTING BUILDINGS ARE TO BE DEMOLISHED, ALL TRACES OF FOUNDATIONS AND UNDERGROUND UTILITIES ARE TO BE REMOVED (UNLESS OTHERWISE NOTED ON PLANS). THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL WASTE MATERIAL.

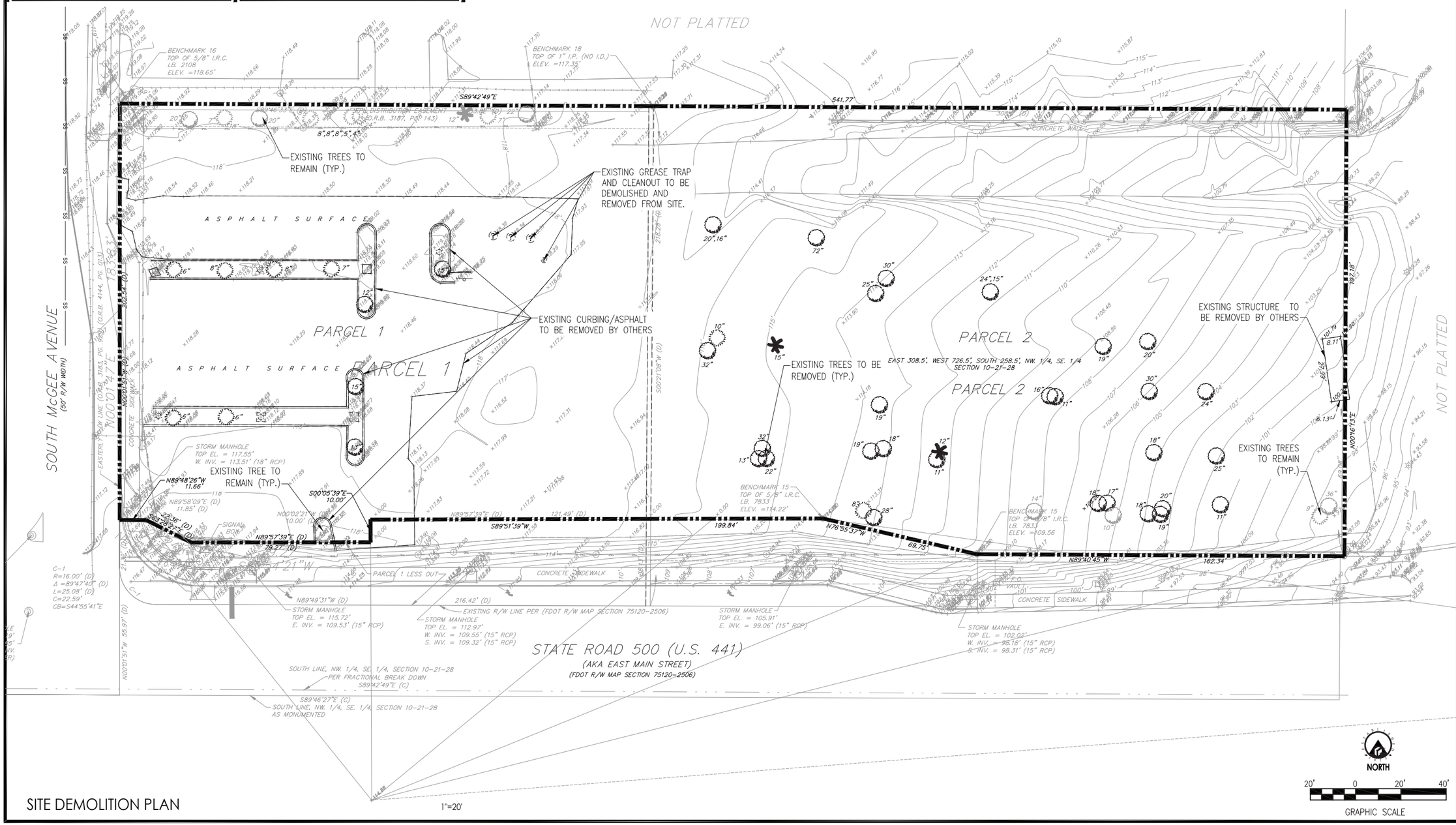
4. WHERE PAVING OR STRUCTURES ARE TO BE REMOVED WHICH ABUT OR ARE A PART OF CONNECTED FACILITIES (THAT ARE OFF-SITE), RESTORATION OF ANY DAMAGE THAT MIGHT RESULT FROM DEMOLITION IS TO BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

5. THE LOCATION OF ALL EXISTING UTILITIES, STORM DRAINAGE AND TREES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER OR ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF DEMOLITION THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXISTANCE & LOCATION OF ALL STRUCTURES, UTILITIES & TREES SHOWN OR NOT ON THE PLANS, WHICH WOULD NEED TO BE REMOVED OR PRESERVED.

6. THE CONTRACTOR IS TO COORDINATE THE RELOCATION OR REMOVAL OF ALL OVERHEAD/UNDERGROUND UTILITIES, UTILITY POLES, LIGHTS AND LINES IN THE RIGHT-OF-WAY AND ON THE PROPERTY WITH THE APPROPRIATE SERVICE PROVIDER.

7. THE CONTRACTOR SHALL REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS DISTURBED DURING CONSTRUCTION. (UNDER THE DIRECTION OF A NORTH CAROLINA REGISTERED LAND SURVEYOR).

8. TREES DAMAGED OR REMOVED DURING CONSTRUCTION WILL BE REPLACED.



SITE DEMOLITION PLAN

1"=20'

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:



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NO DATE REMARKS
REVISIONS

MILLER'S ALE·HOUSE

MILLER'S ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 6-8-2023

C0.1
SITE DEMOLITION PLAN

CHECKED: CDB DRAWN: GFC

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TRAFFIC CONTROL & SIGNAGE

1. DIRECTIONAL ARROW (11 / C4) (TYP.)
2. HANDICAP PAVEMENT SYMBOLS (12 / C4) (TYP.)
3. HANDICAP SIGN (13 / C4)
4. 24" WIDE WHITE STOP BAR (TYP.)
5. PAVEMENT STRIPING (4" WHITE) (TYP.)
6. 4" DOUBLE YELLOW LINE
7. 12" WIDE WHITE CROSSWALK STRIPING
8. 30" STOP SIGN (R1-1)
9. MONUMENT SIGNAGE
10. TO-GO SIGNAGE
11. COMPACT VEHICLES ONLY SIGNAGE/STRIPING

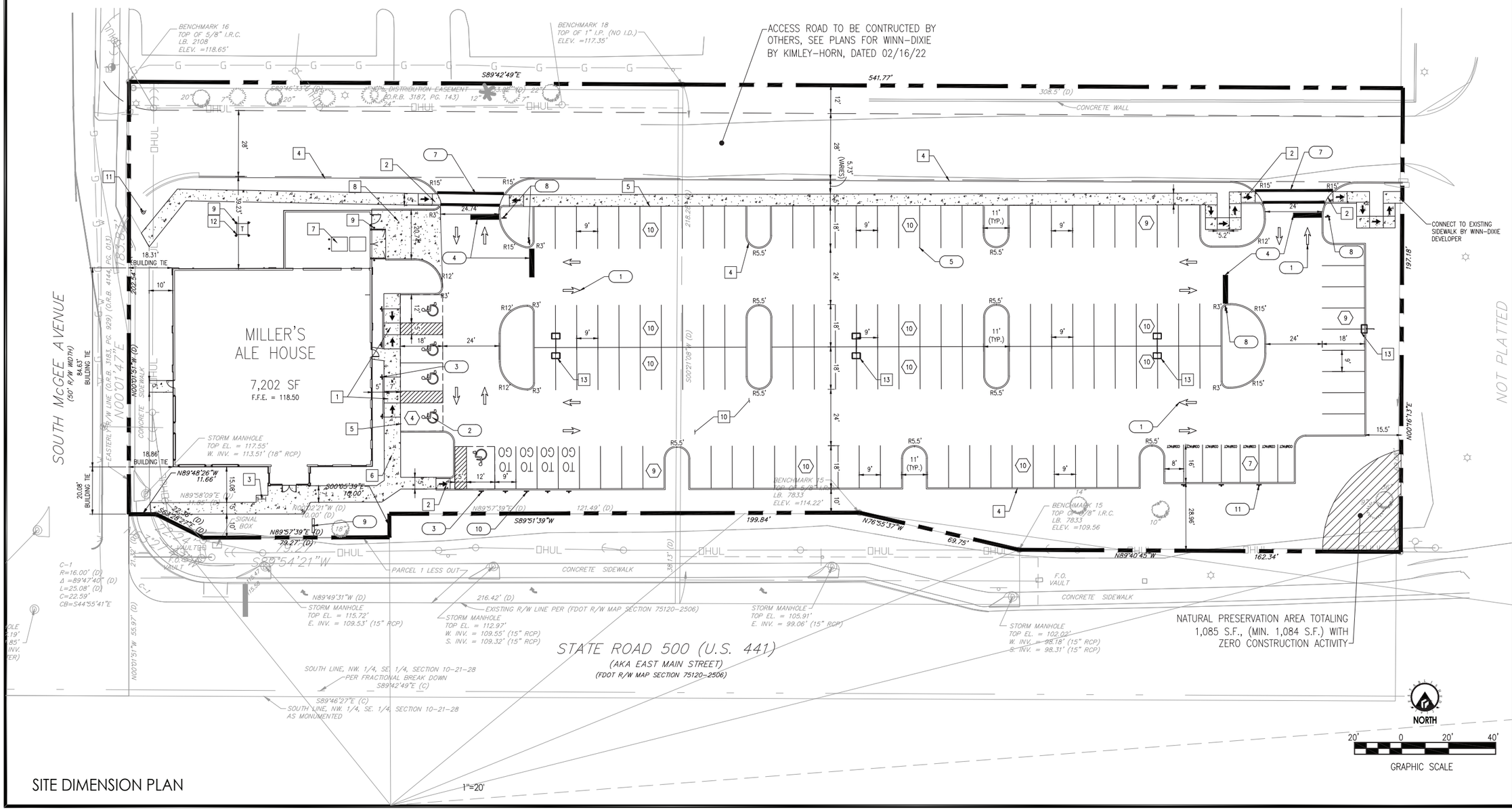
– ALL TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

– WORK DONE WITHIN SR500 R.O.W. SUBJECT TO FDOT REVIEW AND APPROVAL.

SITE NOTES

1. HANDICAP RAMP (16 / C4)
2. ADA ACCESSIBLE SIDEWALK RAMP (14 / C4)
3. BIKE RACK (9 / C4)
4. 6" CURB (5 / C4) (TYP.)
5. MONOLITHIC CURB AND SIDEWALK (6 / C4)
6. CONCRETE SIDEWALK (7 / C4)
7. DUMPSTER ENCLOSURE (SEE ARCH. PLANS)
8. CONCRETE APRON (8 / C4)
9. BOLLARD (4 / C4)
10. ASPHALT PAVEMENT (10 / C4)
11. PROPOSED FIRE HYDRANT (402 / C4.1)
12. TRANSFORMER PAD
13. LIGHT POLE

REFER TO SHEET C0 FOR GENERAL NOTES, SPECIFICATIONS, AND LEGENDS, IN ADDITION TO SITE-SPECIFIC NOTES AND REQUIREMENTS.



SITE DIMENSION PLAN

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STUART A. ANDERSON
No. 60848
STATE OF FLORIDA
PROFESSIONAL ENGINEER
THIS DOCUMENT IS NOT COMPLETE

Digitally signed by Stuart Anderson
Date: 2023.08.11 10:29:51-04'00'

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MILLER'S ALE·HOUSE

MILLER'S
ALE HOUSE

323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 6-19-2023

C1
SITE DIMENSION PLAN

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SITE UTILITY NOTES

SANITARY SEWER

1. CONNECT TO EXISTING 8" SANITARY SEWER MAIN @ INV. = 112.00± RUN SEWER AT 1:1 SLOPE INV. TO ELEV = 113.00 AND INSTALL 45° VERTICAL BEND
2. 64 LF – 6" PVC @ 1% SLOPE
3. C.O. INV. ELEV. = 113.64 (17 / C4.0) (TYP.)
4. (2) SCHIER GB-250 GREASE INTERCEPTORS (SEE PLUMBING PLANS FOR DETAILS) APPROX. RIM ELEV. = 118.0± IN = 113.64 OUT = 114.14
5. 20 LF – 6" PVC @ 1% SLOPE
6. C.O. INV. ELEV. = 114.34
7. 11 LF – 6" PVC RUN SEWER @ 1:1 SLOPE TO ELEV. = 114.25, THEN INSTALL 45° BEND AND CONTINUE @ 1.0%, THEN CONNECT TO BUILDING SEWER SERVICE AT INV. ELEV. = 114.36 (17 / C4.0) (TYP.)
8. 10 LF – 6" PVC @ 1% SLOPE, THEN CONNECT TO BUILDING GREASE SERVICE AT INV. ELEV. = 114.44 (17 / C4.0) (TYP.)

DOMESTIC WATER

9. WET TAP EXISTING 8" WATER MAIN WITH 6" TAPPING SLEEVE & GATE VALVE
10. 2" WATER METER AND RPZ BACKFLOW PREVENTER (500A / C4.1)
11. 2" PE WATER SERVICE
12. 6" X 2" TEE
13. 2" X 2" X 1.5" TEE

IRRIGATION

14. 1.5" IRRIGATION METER AND RPZ BACKFLOW PREVENTER (502 / C4.1)
15. 1.5" IRRIGATION SERVICE STUB-OUT (SEE IRRIGATION SITE PLAN)

ELECTRIC

16. CONTRACTOR SHALL COORDINATE UNDERGROUND ELECTRICAL SERVICE WITH DUKE ENERGY FOR CONDUIT SIZE, CONNECTION POINT AND APPROVED TRANSFORMER LOCATION.
17. TRANSFORMER PAD. CONTRACTOR TO COORDINATE WITH DUKE ENERGY FOR FINAL LOCATION OF TRANSFORMER TO BE SET.

PHONE

18. CONTRACTOR SHALL COORDINATE UNDERGROUND TELEPHONE SERVICE WITH SERVICE PROVIDER FOR CONDUIT SIZE, CONNECTION POINT.

GAS

19. CONTRACTOR SHALL COORDINATE UNDERGROUND GAS SERVICE WITH LAKE APOPKA GAS FOR CONDUIT SIZE, CONNECTION POINT.

FIRE

20. FIRE HYDRANT ASSEMBLY
21. 6" DDCV WITH FDC
22. 6" DR-14 PVC FIRE LINE TO BUILDING (CONFIRM SIZE WITH FIRE PROTECTION DRAWINGS)

STREET LIGHT

23. LIGHT POLE (SEE ELECTRICAL SITE PLAN)

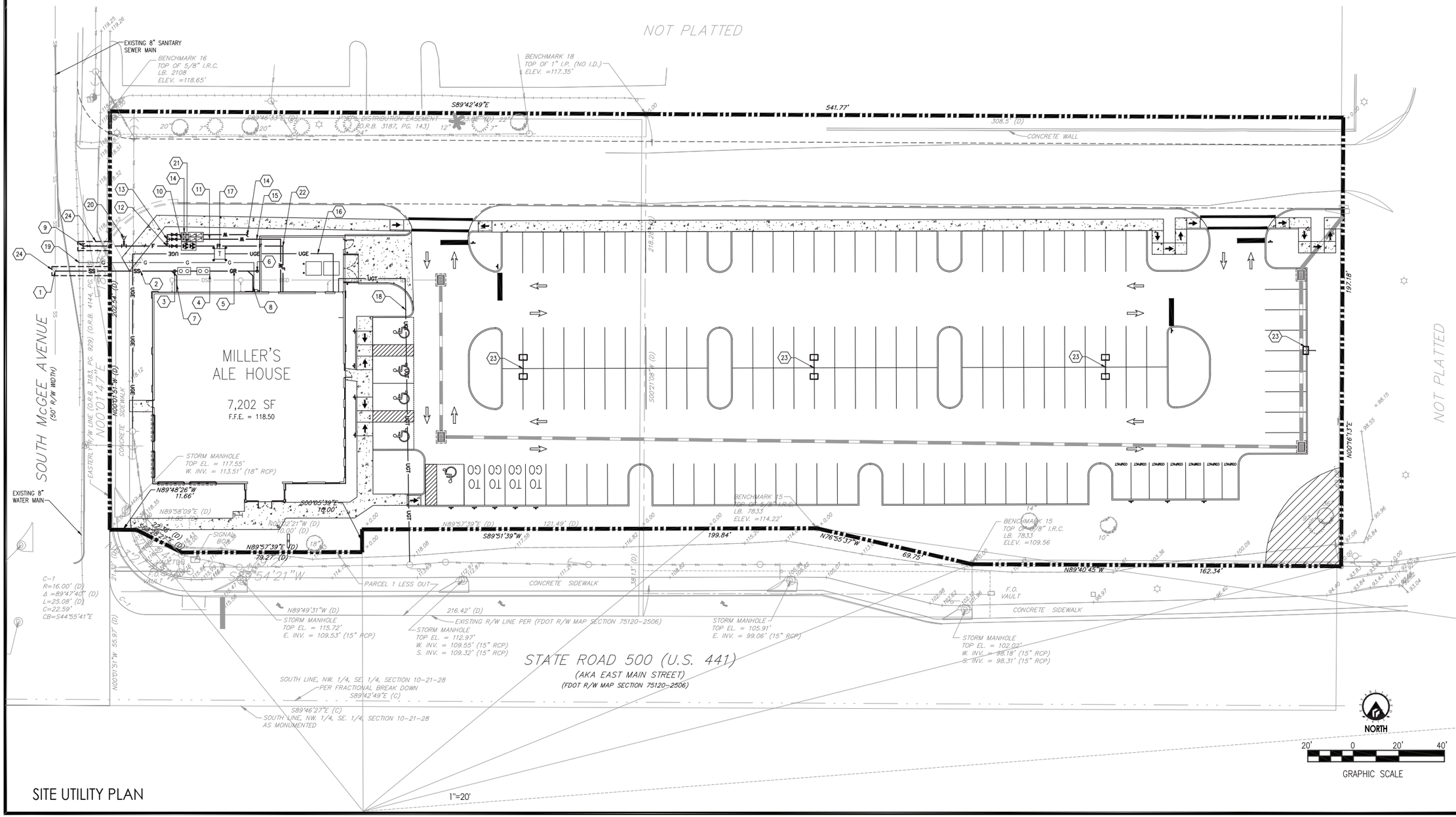
OPEN CUT DETAIL

24. OPEN CUT & REPAIR PAVEMENT (702 / C4.1)

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT SUNSHINE STATEONE. @ 1-800-432-4770 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

REFER TO SHEET C0 FOR GENERAL NOTES, SPECIFICATIONS, AND LEGENDS, IN ADDITION TO SITE-SPECIFIC NOTES AND REQUIREMENTS.



SITE UTILITY PLAN

1"=20'

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660

**ARCHITECTURE
ENGINEERING
PERMITTING**

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STUART A. ANDERSON — No. 60848 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

THIS DOCUMENT IS NOT SIGNED OR SEALED

Digitally signed by Stuart Anderson
Date: 2023.08.11 10:29:53-04'00'

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REVISIONS

MILLER'S ALE·HOUSE

MILLER'S
ALE HOUSE

323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 6-8-2023

C2
SITE UTILITY PLAN

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DRAINAGE STRUCTURE TABLE

1. INLET #1
   TYPE "F" STORMWATER INLET
   GRATE ELEV. = 117.00
   INV ELEV. (S) = 112.58
   INV ELEV. (W) = 112.68
2. 64 LF 15" HDPE @ 0.5%
3. INLET #2
   TYPE "F" STORMWATER INLET
   GRATE ELEV. = 117.20
   INV ELEV. (E) = 112.26
   INV. ELEV. (N) = 112.16
4. 374 LF 15" HDPE @ 4.4%
5. INLET #3
   TYPE "F" STORMWATER INLET
   GRATE ELEV. = 101.25
   INV ELEV. (N) = 95.6
   INV. ELEV. (W) = 95.7
6. 61 LF 18" HDPE @ 1.3%
7. INLET #4
   TYPE "F" STORMWATER INLET
   GRATE ELEV. = 101.00
   INV ELEV. (NE) = 94.7
   INV. ELEV. (S) = 94.8
8. 24 LF OF 18" HDPE @ 5%
9. HANDICAP ZONE – MAX. 2.0% SLOPE IN ANY DIRECTION.
10. ACCESSIBLE ROUTE MAX. 2% CROSS SLOPE, 5% IN DIRECTION OF TRAVEL
11. 18" DIAMETER YARD DRAIN BASIN #1
    GRATE ELEV. = 117.75
    INV. = 113.26
12. 18" DIAMETER YARD DRAIN BASIN #2
    GRATE ELEV. = 117.75
    INV. = 113.10

    DOWNSPOUTS PIPE INFORMATION

13. 115 LF – 10" PVC @ 0.5% SLOPE
14. (3 PLACES) 4 LF – 6" PVC @ 1% SLOPE
    CONNECT TO BUILDING DOWNSPOUTS

NOTE:
CONTRACTOR SHALL FIELD VERIFY LOCATION, INVERT ELEVATION, MATERIALS AND PIPE SIZE BEFORE CONSTRUCTION BEGINS.

CONTRACTOR SHALL BEGIN STORMWATER PIPING CONSTRUCTION AT THE POINT OF CONNECTION OF EXISTING STORMWATER SYSTEM.

ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED ON PLANS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S LATEST SPECIFICATIONS.

ALL RCP PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC WRAP.

6" BELOW BASE MINIMUM PIPE COVER.

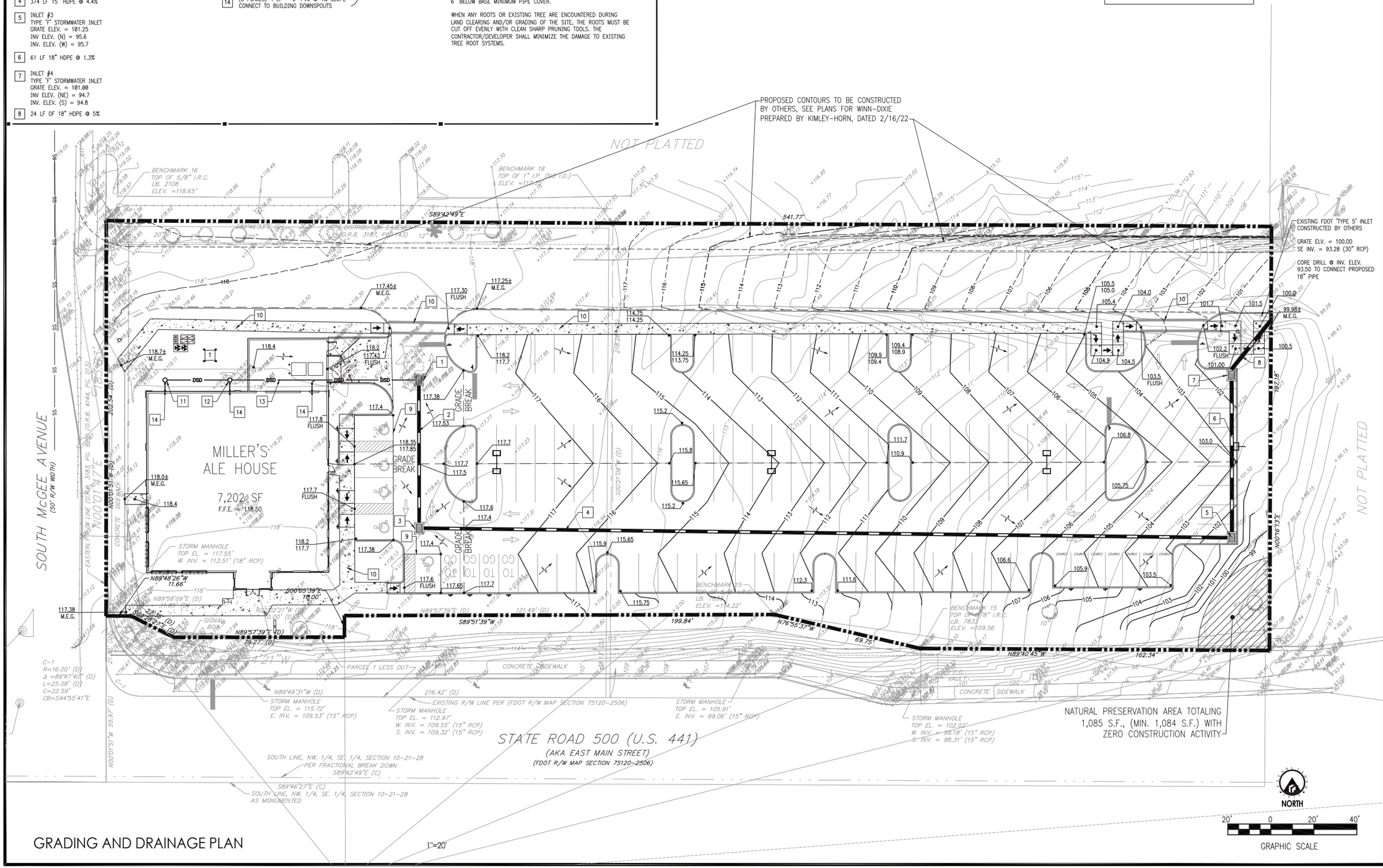
WHEN ANY ROOTS OR EXISTING TREE ARE ENCOUNTERED DURING LAND CLEARING AND/OR GRADING OF THE SITE, THE ROOTS MUST BE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS. THE CONTRACTOR/DEVELOPER SHALL MINIMIZE THE DAMAGE TO EXISTING TREE ROOT SYSTEMS.

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

BURIED UTILITIES NOTE

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REFER TO SHEET C0 FOR GENERAL NOTES, SPECIFICATIONS, AND LEGENDS, IN ADDITION TO SITE-SPECIFIC NOTES AND REQUIREMENTS.



GRADING AND DRAINAGE PLAN

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STUART A. ANDERSON — THIS DOCUMENT IS NOT — No. 60848 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

Stuart Anderson Digitally signed by Stuart Anderson Date: 2023.08.11 10:29:55-04'00'

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FLORIDA

PROJECT NO: 2023.0320
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C3
GRADING AND DRAINAGE PLAN

CHECKED: CDB DRAWN: GFC

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POLLUTION CONTROL NOTES

ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL COMPLETION OF CONSTRUCTION.

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM WITH LOCAL CITY/COUNTY AND WATER MANAGEMENT DISTRICT SPECIFICATIONS, SUBJECT TO AUTHORIZED AND APPROVED VARIANCES, WAIVERS AND/OR CONDITIONS OF SITE PERMITS.

2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN, CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.

3. ALL AREAS AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.

5. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PROVIDE TREE PROTECTION BARRIERS TO MEET THE REQUIREMENTS OF LOCAL SPECIFICATIONS.

6. THE CONTRACTOR SHALL SELECTIVELY CLEAR ONLY THE AREAS REQUIRED FOR CONSTRUCTION AND STABILIZE ANY POTENTIAL EROSION AREAS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION.

7. CONTRACTOR SHALL KEEP ANY AND ALL SAND, SILT OR OTHER DEBRIS FROM MOVING OFF-SITE. USE AND MAINTAIN SILT FENCE JUST INSIDE OF PROPERTY LINE.

8. CONTRACTOR SHALL BLOCK INTRUSION OF SAND, SILT OR OTHER DEBRIS INTO ANY DRAINAGE OR SANITARY SEWER STRUCTURE OR PIPING ON OR ADJACENT TO SITE.

9. ALL CLEARED AREAS FOR IMPROVEMENT AND/OR CONSTRUCTION SHALL BE WATERED TO PREVENT WIND EROSION.

10. FOR ADDITIONAL INFORMATION AND DETAILS, SEE TEXAS EROSION CONTROL MANUAL.

11. UNLESS SPECIFIED, SILT FENCES MAY BE USED IN LIEU OF SYNTHETIC BARRIERS.

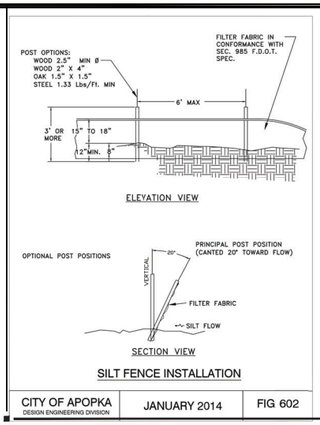
12. ADDITIONAL POSTS AND RAILS MAY BE NECESSARY TO SECURE AND SUPPORT BARRIERS.

13. ADDITIONAL BARRIER LENGTHS MAY BE REQUIRED BY THE COUNTY ENGINEER OR BY REGULATORY AGENCIES.

14. FILTER FABRIC MUST BE INSTALLED UNDER ALL INLET GRATES, AT ALL TIMES WHEN INLETS ARE NOT PROTECTED BY SILT FENCE OR SYNTHETIC BALES, UNTIL THE LIMEROCK BASE IS FINISHED AND PRIMED.

15. THE CONTRACTOR IS REQUIRED TO HAVE THIS PLAN ALONG WITH A COPY OF THE NPDES NOTICE OF INTENT POSTED IN A VISIBLE LOCATION ON THE CONSTRUCTION SITE AT ALL TIMES.

16. "CONTRACTOR IS REQUIRED BY NPDES TO KEEP A LOG ON SITE FOR THE SOIL EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THE PLAN. THE LOG SHALL CONTAIN DATES FOR: INSTALLATION OF CONTROL MEASURES, MAJOR SITE CONSTRUCTION ACTIVITIES, INSPECTION ON AT LEAST A WEEKLY BASIS AND INSPECTION AFTER ANY RAINFALL EVENT THAT IS 1/2" OR GREATER".



SILT FENCE INSTALLATION

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG 602

Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name:_____ FDEP NPDES Stormwater Identification Number: FLR10_____

Location	Rain data	Type of control	Date installed /	Current Condition	Corrective Action / Other Remarks

Condition Code:

(see below) modified (see below)

P = Poor, needs immediate maintenance or replacement

Control Type Codes

M = Marginal, needs maintenance or replacement soon

1. Sediment basin	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond
4. Swale	13. Retention Pond	22. Temporary seed / sod	31. Waste disposal / housekeeping
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed / sod	32. Other
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Curb and gutter	25. Synthetic Bales	34. Other
8. Pipe slope drain	17. Paved road surface	26. Geotextile	
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	

Inspector Information:

Name Qualification

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Texas Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

_____ _____

Name (Responsible Authority) Date

Date

ENGINEER'S CERTIFICATIONS:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

_____ _____

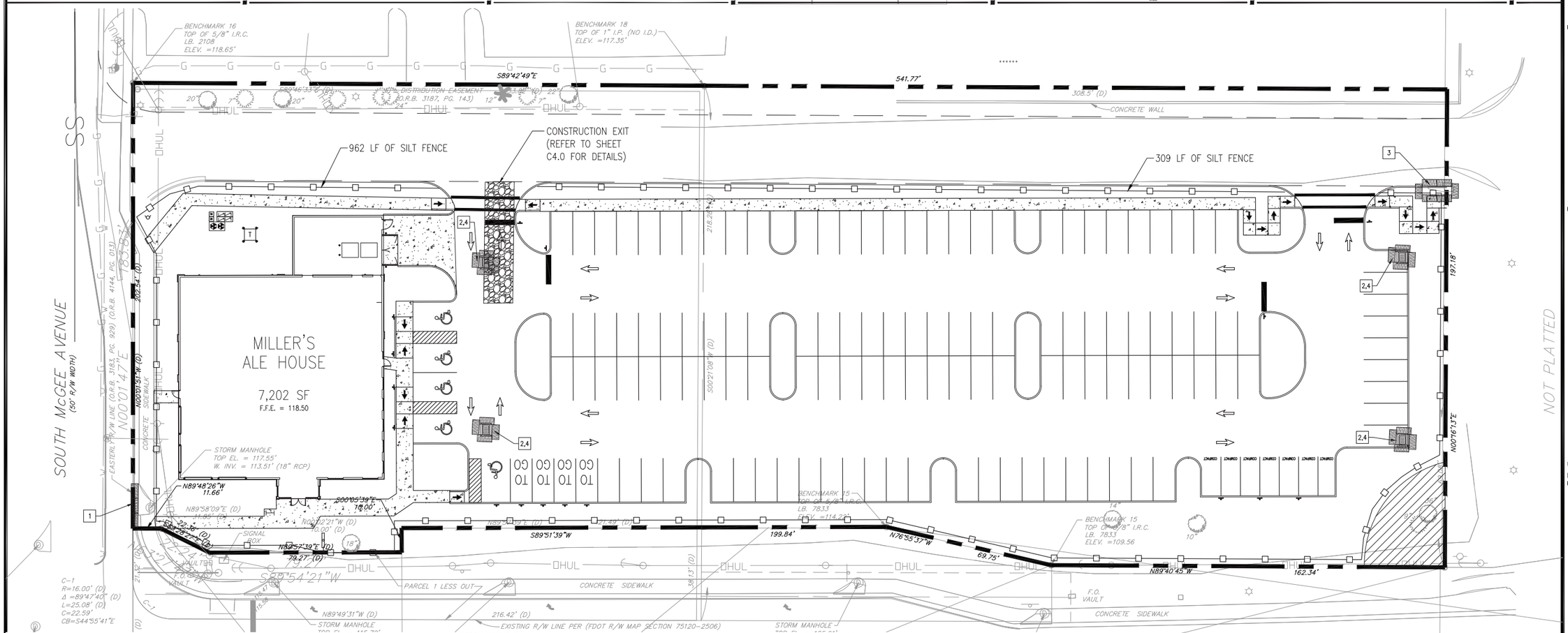
STUART ANDERSON, P.E. #116598 Date

OWNER/AGENT CERTIFICATIONS:

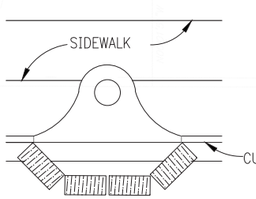
I HAVE REVIEWED THIS PLAN AND AGREE TO COMPLY WITH THE REQUIREMENTS SHOWN HEREON.

_____ _____

OWNER/AUTHORIZED REPRESENTATIVE Date

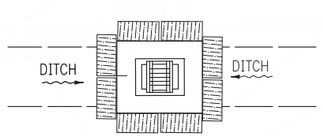


1 COMPLETED INLET

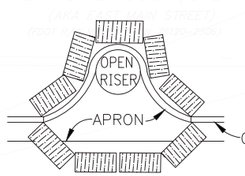


2 DITCH BOTTOM INLET

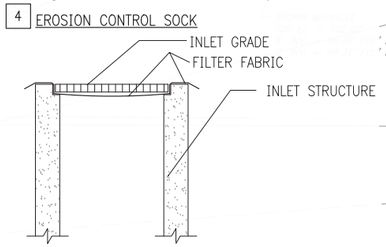
ANCHOR BALES WITH 2 – 2" X 2" X 4' STAKES PER SYNTHETIC BALE.

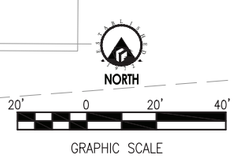


3 PARTIAL INLET



4 EROSION CONTROL SOCK





STORM WATER POLLUTION PREVENTION PLAN 1"=20'

INTERPLAN
INTERPLAN LLC
AR99238
CA 8660

ARCHITECTURE ENGINEERING PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

STUART A. ANDERSON LICENSE No. 60848 STATE OF FLORIDA PROFESSIONAL ENGINEER
THIS DOCUMENT IS NOT SIGNED AND SEALED

Stuart Anderson Digitally signed by Stuart Anderson Date: 2023.08.11 10:29:57-04'00'

This item has been digitally signed and sealed by Stuart Anderson on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NO DATE REMARKS
REVISIONS

MILLER'S ALE·HOUSE

MILLER'S ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

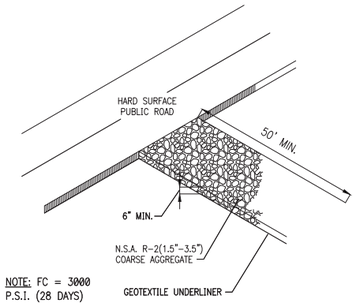
PROJECT NO: 2023.0320
DATE: 6-19-2023

C3.1
STORM WATER POLLUTION PREVENTION PLAN

CHECKED: CDB DRAWN: GFC

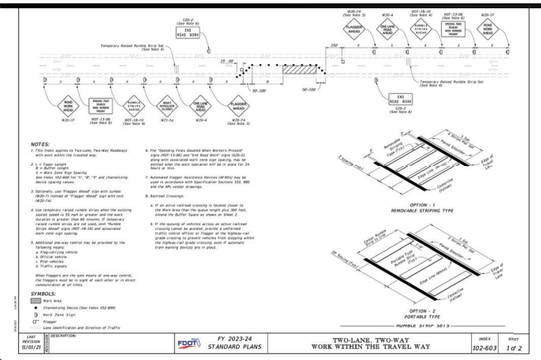
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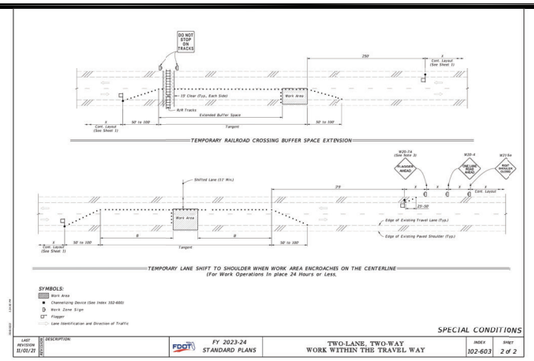


NOTE: FC = 3000 P.S.I. (28 DAYS)

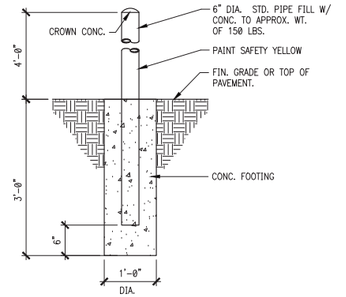
1 CRUSHED STONE CONSTRUCTION EXIT NTS



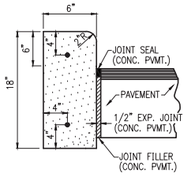
2 FDOT MOT DETAILS NTS



3 FDOT MOT DETAILS NTS



4 BOLLARD NTS MISC006.DWG

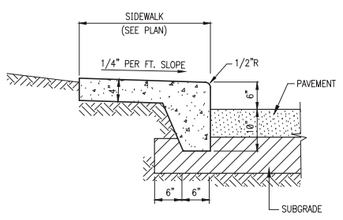


NOTES:

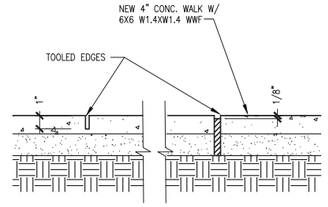
1. COST OF 2-#4 BARS (CONT.) SHALL BE INCLUDED.
2. PROVIDE 2-#6 SMOOTH BARS W/ EXPANSION CAPS AT EACH EXPANSION JOINT, 20'-0" O.C. MAX.
3. CONTRACTION JOINTS - CONTRACTION JOINTS SHALL BE PLACED AT EQUAL SPACES (10' MAX.) BETWEEN NORMAL EXPANSION JOINTS. CONTRACTION JOINTS SHALL BE SAW CUT IN THE UPPER 1/3 OF CURB AND GUTTER WITHIN 24 HOURS OF PLACEMENT.
4. ENDS OF VERTICAL CURB SHALL TRANSITION FROM FULL TO ZERO HEIGHTS IN 3 FEET.

PLAN SYMBOL

5 6" VERTICAL CURB (3,500 PSI (MIN)) NTS PVT007.DWG



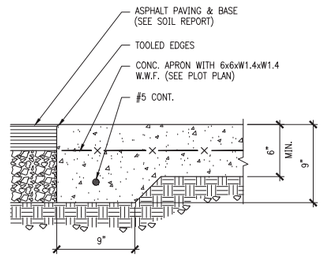
6 MONOLITHIC CURB & SIDEWALK DETAIL (3,500 PSI (MIN)) NTS PVT006.DWG



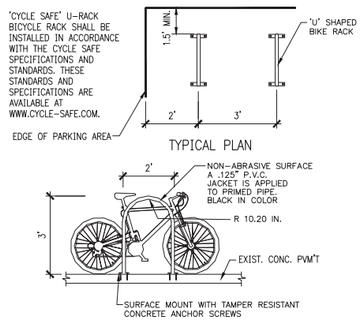
NOTE:
EXPANSION JOINTS SHALL BE LOCATED AT ALL CONCRETE WALK INTERSECTIONS, AT ALL DOOR OPENINGS AND AT 12' O.C. MAXIMUM.

EXPANSION JOINT (1/4" PREMOLDED ASPHALT STRIP) SHALL BE SET 1/8" BELOW TOP OF WALK.
SCORE MARK (1" DEPTH) SHALL BE 4' (MAX.) O.C.

7 CONCRETE WALK (3,500 PSI (MIN)) NTS PVT019.DWG



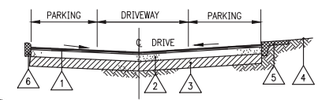
8 CONCRETE APRON 3,500 PSI (MIN.) CONCRETE NTS PVT014.DWG



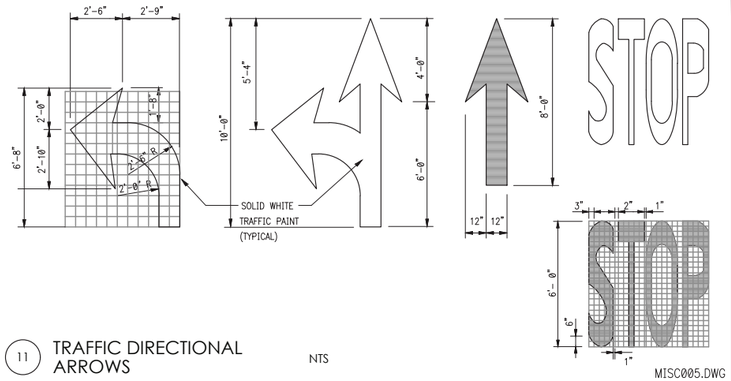
9 BIKE RACK NTS

KEY TO TYPICAL PAVEMENT SECTIONS

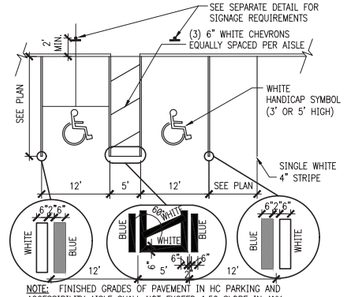
1. 2" TYPE SP-12.5 ASPHALTIC CONCRETE - F.D.O.T. SECTION 334 TRAFFIC LEVEL 'C'
2. 8" LIMEROCK BASE COURSE STABILIZED TO A MINIMUM LIMEROCK BEARING RATIO (LBR) OF 100 AND COMPACTED TO 98% OF THE MODIFIED PROCTOR MAX. DRY DENSITY (AASHTO T-180). FDOT SECTION 200. DENSITY TEST SHALL BE PERFORMED EVERY 5,000 SQUARE FEET.
3. 12" STABILIZED SUBBASE STABILIZED TO A MIN. LIMEROCK BEARING RATIO (LBR) OF 40 AND COMPACTED TO 98%. F.D.O.T. SECTION 160.
4. GRASS AREA
5. SIDEWALK
6. 6" VERTICAL CURB



10 TYPICAL PAVEMENT SECTION NTS PVT017.DWG



11 TRAFFIC DIRECTIONAL ARROWS NTS MISC005.DWG

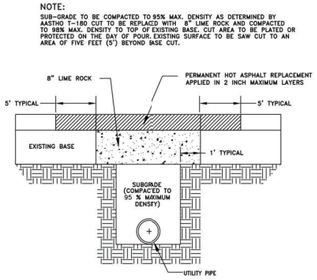

SEE SEPARATE DETAIL FOR SIGNAGE REQUIREMENTS
(3) 6" WHITE CHEVRONS EQUALLY SPACED PER AISLE
WHITE HANDICAP SYMBOL (3' OR 5' HIGH)
SINGLE WHITE 4" STRIPE
2' MIN.
SEE PLAN
12'
5'
12'
SEE PLAN
WHITE
BLUE
BLUE
WHITE
6"
6"
6"

GENERAL NOTES

1. Governing standards and specifications on this project are considered the Florida Department of Transportation (FDOT) Design Standards (2015 Edition), FDOT Standard Specifications for Road and Bridge Construction (2015 Edition), and City of Apopka Utilities Design and Construction Standards Manual (2014 Edition).
2. All personal property, except sand boxes located within the public right-of-way (per relocated by the Contractor at his own expense. Any damage to the property of others resulting from the project in accordance with the Construction Plans. Sod lawns shall be relocated by the Contractor in accordance with FDOT Index No. 532.
3. The Contractor shall obtain all permits required to be the responsibility of the Contractor. Approval of disposal sites shall be obtained from the City of Apopka prior to disposal.
4. All existing trees and stumps within the right-of-way and limit of the project are to be removed in clearing and grubbing unless otherwise directed.
5. Sand and muck all disturbed areas not covered by sod unless otherwise directed.
6. Sod shall be placed on all areas disturbed by construction, except where noted on, or where unless dimensions are to the edge of pavement, unless otherwise noted.
7. Turnout locations and widths shown in the Construction Plans are approximate and may be adjusted as necessary or as directed by the Engineer. Adjustments shall be constructed in accordance with FDOT Index No. 515.
8. Unless otherwise specified in the bid specifications payment not included in the bid price for Section 104, The Contractor shall perform his work in accordance with the requirements of "Prevention, Control, and Abatement of Erosion and Water Pollution", excluding items specifically listed in the bid specifications. Materials shall be used at locations designated in the plans and/or designated by the Engineer.
9. The information shown on these drawings concerning type and location of underground and other utilities are based on available records and surveys, he is not guaranteed to be accurate or all inclusive. The Contractor shall make his own determination as to the type and location of utilities that may be necessary to avoid damage there to, and is responsible for coordinating utility relocation.
10. Prior to ordering drainage structures, the Contractor shall determine if drainage utility conflicts exist. Information about possible conflicts shall e submitted to the Engineer as soon as possible after discovery of such for resolution.
11. The Contractor shall notify the City of Apopka a minimum of two working days prior to excavation as required by Chapter 77-455 of the Florida Statutes.
12. All inlet/manhole / pipe joints shall be filled with non-shrink grout, covered with an asphaltic joint sealing compound or approved rubber fabric material as Section 114.01.02 of the Orange County Road Construction Specifications.
13. All curb inlets, ditch bottom inlets, and manholes shall haveroffic bearing frames and covers or gutter meeting AASHTO-24 loading requirements.
14. Changes of pipe inverts not exceeding plus or minus one-foot will not be considered as a basis for additional compensation for the pertinent pipe wi tems or for modifications of items of substitution.
15. All benchmarks (cross and monuments) shown in the Construction Plans, or found, shall be preserved. Those shown in proposed pavement shall be protected with a cast iron valve box.
16. Public land corners within the limits of construction shall bepreserved. If a corner monument is found to be disturbed during construction, the Contractor shall notify the Engineer before and after, by telephone. The Contractor shall provide within follow up confirmation within 48 hours of telephone notification.
17. Upon completion of the construction, the Contractor shal submit to the Engineer a set of field notes verifying the benchmark elevations and the reference point monuments on the plats and profile view sheets, and/or a set of field notes to all additional benchmark and reference point monuments proposed to be used in conforming the project with their location, description and elevation, based on North American Vertical Datum (NAVD88) elevations. Notes shall be signed and sealed by a Professional Land Surveyor registered in the state of Florida.
18. Within 21 calendar days after notice to proceed, the Contractor shall stake the public right-of-way at 50 foot intervals and the right-of-way leads with corresponding station numbers on the stakes. Contractor to provide for payment for installation of Section No. 101-1) will be responsible for maintaining right-of-way markers throughout the project.
19. Any United States Code (USC) and National Geodetic Survey (NGS) monuments within the limits of construction shall be protected. If in danger of damage, the Contractor shall notify the Engineer and the following:
   State Geodetic Advisor, NGAA
   3900 Commonwealth Blvd - MS105
   Tallahassee, FL Phone (850) 245-2606
20. It shall be the responsibility of the Contractor to acquire all necessary right-of-way and construction permits from the City of Apopka for all construction and maintenance activities within the limits of public right-of-way owned and maintained by the City of Apopka. For construction activity within the limits of public right-of-way maintained by the City but owned by Orange County or the State of Florida,the Contractor shall acquire the required permits from the agencies. It shall be the responsibility of the Contractor to assure that all permit conditions are met during the course of construction.
21. The location of all existing utilities, storm drainage systems and topographic features shown on the plans have been determined from the best available information and are provided for the convenience of the Contractor. The Engineer assumes no responsibility for their accuracy. Should a discrepancy arise between these plan and actual field conditions, or should the Contractor fail to locate any of these lines, the Contractor shall halt construction and notify the Engineer immediately.
22. The Contractor shall be responsible for notifying the City within 48 hours before any inspection. Also, the Contractor shall be responsible for meeting all inspection criteria, schedules and signing-off inspections.
23. The Contractor shall not excavate, remove or otherwise disturb any material, structure or part of a structure which is located outside the lawn, grades or grading sections, established for this project, except where such excavation or removal is provided or in the Contract Documents or is directed by the Engineer.
24. All work and all materials furnished shall be in conformity with the lines, grades, grading sections, cross sections, dimensions, manuel requirements, and testing requirements that are specified in the Contract Construction Plan or Technical Specifications.
25. All work shall be accomplished in strict accordance with all applicable federal, state and local laws, ordinances and regulations.
26. Apparent errors, discrepancies or omissions in the Construction Plans shall be brought to the Engineer's attention before bidding.
27. After completion of construction, the Contractor shall provide to the City a completed as-built plan one week prior to the final acceptance. Before the final acceptance it shall be the responsibility of the Contractor to clean all drainage facilities (i.e. ponds, ditches, storm manholes, and equipment to present the project site clean and in good order.
28. No extra payments shall be allowed for any work required due to misunderstanding of job or site conditions affecting the work or the cost thereof. The Contractor shall examine the site and the Construction Plans. The Contractor shall not take advantage of any apparent error or omission in the Construction Plans or Technical Specifications and the Engineer shall be permitted to make corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the Contract Documents. By entering the bidding process the Contractor represents that he has complied with this.
29. The Contractor shall submit four (4) set of detailed shop drawings of all major items proposed for the project to the Engineer prior to ordering any of the equipment or material. Two (2) copies of the shop drawings will be returned to the Contractor. Upon the Contractor's receipt of approved shop drawings from the Engineer, the Contractor may proceed with the work.
30. The Contractor shall comply with the legalized restrictions in hauling of materials in public roads beyond the limits of construction work. A special permit will not relieve the Contractor of liability for damage which may result from the moving of material and equipment.
31. During construction, no direct discharge if water to downstream receiving waters will be allowed. The Contractor is responsible fr maintaining water quality and water discharge water in such a manner as to adequately remove silt prior to runoff from the site.
32. Unless otherwise specified, all work done in which withtype of the Contract must connect, the following work shall be performed:
   A. Expose buried lines to confirm or determine end connections, pipe material and diameter.
   B. Furnishing and installing piping and making proper connections.

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. GN

NOTE:
SUB-GRADE TO BE COMPACTED TO 95% MAX. DENSITY AS DETERMINED BY AASTHO T-180 CUT TO BE REPLACED WITH 8" LIME ROCK AND COMPACTED TO 98% MAX. DENSITY TO TOP OF EXISTING BASE. CUT AREA TO BE PLATED OR PROTECTED ON THE DAY OF POUR.EXISTING SURFACE TO BE SAW CUT TO AN AREA OF FIVE FEET (5') BEYOND BASE CUT.



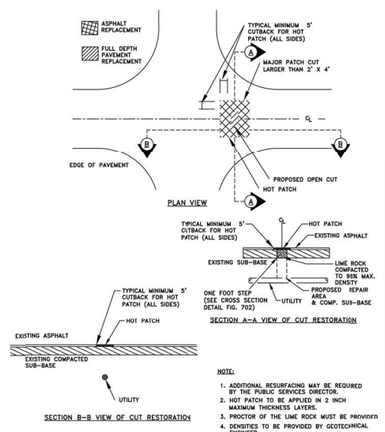
GENERAL NOTES:
1. IASE REPLACEMENT SHALL BE 8" LIME ROCK COMPACTED TO 98% MAX. DENSITY.
2. (SPHALTIC CONCRETE SURFACE MATERIAL SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL AT THE TIME OF REMOVAL.
3. MINIMUM ASPHALTIC CONCRETE SURFACE OVERLAY THICKNESS SHALL BE ONE (1) INCH.
4. ILL JOINT CUTS SHALL BE MECHANICALLY SAW CUT.

PAVEMENT RESTORATION:
1. LONGITUDINAL CUTS MAY REQUIRE OVERLAY/RESURFACING OF THE COMPLETE WIDTH OF THE TRAVELED WAY.
2. CUTS AT INTERSECTIONS OF STREETS GENERALLY MAY REQUIRE A COMPLETE OVERLAY/RESURFACING TO THE END OF ALL RETURN RADII, AND ALSO TO A POINT TEN FEET (10') BEYOND THE CUT WHICHEVER IS GREATER.
3. ACTUAL REQUIREMENTS WILL BE AS STATED ON THE APPROVED PERMIT.

LIME ROCK
HOT PATCH

OPEN-CUT CROSS SECTION DETAIL

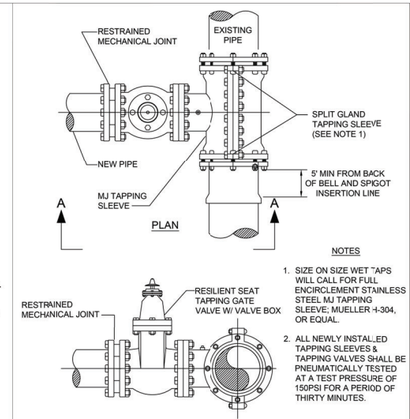
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 702



NOTE:
1. ADDITIONAL RESURFACING MAY BE REQUIRED BY THE PUBLIC SERVICES DIRECTOR.
2. HOT PATCH TO BE APPLIED IN 2 INCH MAXIMUM THICKNESS LAYERS.
3. PROCTOR OF THE LIME ROCK MUST BE PROVIDED
4. DENSITIES TO BE PROVIDED BY GEOTECHNICAL ENGINEER.

OPEN-CUT DETAIL - MAJOR PATCH

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 701



NOTES
1. SIZE ON SIZE WET "APS WILL CALL FOR FULL ENCIRCLEMENT STAINLESS STEEL MJ TAPPING SLEEVE; MUELLER I-304, OR EQUAL.
2. ALL NEWLY INSTALLED TAPPING SLEEVES & TAPPING VALVES SHALL BE PNEUMATICALLY TESTED AT A TEST PRESSURE OF 150PSI FOR A PERIOD OF THIRTY MINUTES.

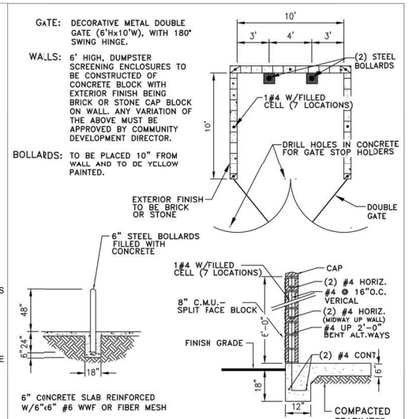
WATER AND RECLAIMED WATER MAINS
WET TAP TIE-IN DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 406

GATE: DECORATIVE METAL DOUBLE GATE (6'Hx10'W), WITH 180° SWING HINGE.

WALLS: 6' HIGH, DUMPSTER SCREENING ENCLOSURES TO BE CONSTRUCTED OF CONCRETE BLOCK WITH EXTERIOR FINISH BEING BRICK OR STONE CAP BLOCK ON WALL. ANY VARIATION OF THE ABOVE MUST BE APPROVED BY COMMUNITY DEVELOPMENT DIRECTOR.

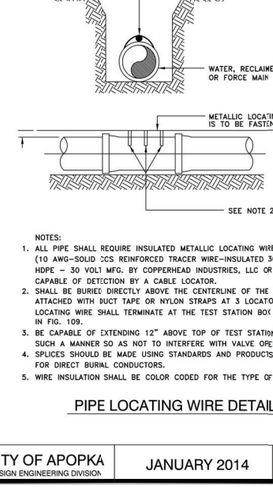
BOLLARDS: TO BE PLACED 10" FROM WALL AND TO BE YELLOW PAINTED.



BOLLARD DETAIL

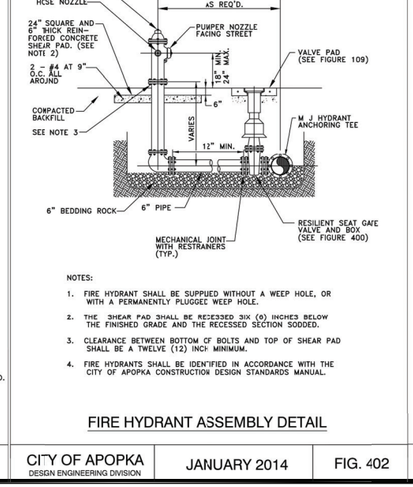
DUMPSTER ENCLOSURE DETAIL
N'S

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 601



GREASE INTERCEPTOR TRAFFIC RATED CLEAN-OUT DETAIL
NTS

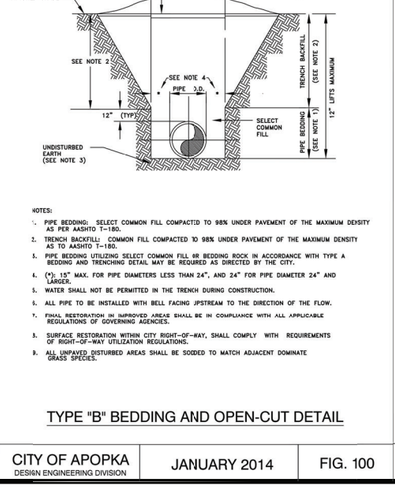
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 600 A



NOTES:
1. A POSITIVE DIELECTRIC CONNECTION SHALL BE MADE BETWEEN ALL GALVANIZED AND BRASS COMPONENTS.
2. METER BOXES SHALL BE INSTALLED JUST INSIDE THE ROW LINE OR PROPERTY LINE AND IN NO CASE SHALL IT BE INSTALLED IN THE SIDEWALK OR OTHER PAVED AREAS.
3. DOUBLE CHECK VALVES MAY BE USED AS LONG AS THEIR ARE NO CHEMICALS OR A WELL ON SITE.
4. A PVB DEVICE SHALL BE 12-INCHES MINIMUM ABOVE HIGHEST OUTLET OR SPRAYHEAD
5. ALL BACKFLOW PREVENTION DEVICES ARE TO BE AWWA APPROVED.

IRRIGATION METER AND DOUBLE CHECK VALVE OR REDUCED PRESSURE BACKFLOW PREVENTER

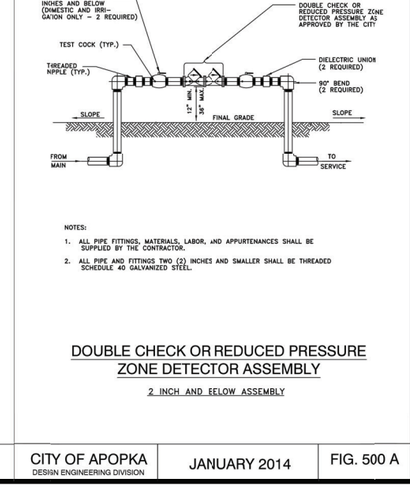
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 502



NOTES: 1. BYPASS METER MUST MEET AWWA STANDARD C700 OR C701.
2. METER MUST MEET AWWA STANDARD C707 AND TRANSMITTER MUST BE COMPATIBLE WITH THE CITY'S AMR SYSTEM.
3. ALL PIPE FITTINGS, MATERIALS, LABOR, AND APPURTENANCES SHALL BE SUPPLIED BY THE CONTRACTOR.
4. ALL PIPE AND FITTINGS TWO (2) INCHES AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL, OR BRASS.

ABOVE GROUND DEVICE WITH DETECTOR BY-PASS
2 INCH AND ABOVE ASSEMBLY

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 500 B



NOTES:
1. PVC EXTENSIONS MAY BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO WITHIN A 3 FEET BELOW FINISHED GRADE.

GATE VALVE AND BOX DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 400

PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS									
	POTABLE WATER		RECLAIMED WATER*		SANITARY SEWER FORCE MAIN		SANITARY SEWER GRAVITY MAIN		STORM SEWER	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
POTABLE WATER	–	–	3'	12"	6'	12"	6'	6" ABOVE 12" BELOW	3'	6"
RECLAIMED* WATER	3'	12"	–	–	3'	12"	3'	12"	–	–
SANITARY SEWER FORCE MAIN	6'	12"	3'	12"	–	–	–	–	–	–
SANITARY SEWER GRAVITY MAIN	6'	6" ABOVE 12" BELOW	3'	12"	–	–	–	–	–	–

GENERAL NOTES:
1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATION CODE (F.A.C.). THESE SEPARATION REQIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
2. FOR THE PURPOSE OF THIS TABLE, RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 17-610. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.
3. ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATER CLEARANCE SHALL BE USED.
   C/C – DENOTES CENTER OF PIPE TO CENTER OF PIPE.
   O/O – DENOTES OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. ACCEPTABLE VARIANCES:
   A. WHERE HORIZONTAL SEPARATION IS NOT ATTAINABLE, PVC-C-900 SDR-14 OR CONCRETE ENCASEMENT MUST BE USED FOR THE SANITARY SEWER LINE FOR AT LEAST ONE OF THE PIPES. PVC-C-900 SDR 14 OR CONCRETE ENCASEMENT MUST BE USED UNTIL MINIMUM CLEARANCE IS REGAINED.
   B. WHERE 18 INCH VERTICAL SEPARATION IS NOT ATTAINABLE AT CROSSINGS, USE ONE FULL LENGTH OF PVC-C-900 SDR-14 FOR SANITARY SEWERS OR ENCASED PIPE CENTERED AT THE POINT OF CROSSING SPECIAL SUPPORT MAY BE REQUIRED.
5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
6. CONCRETE ENCASEMENT SHALL NOT BE USED UNLESS APPROVED BY PUBLIC SERVICES DIRECTOR OR HIS DESIGNEE.

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 104

NOTES:
1. ALL PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 AWG-SOLID CCS REINFORCED TRACER WIRE-INSULATED 30 MIL HDPE – 30 VOLT MFG. BY COPPERHEAD INDUSTRIES, LLC OR EQUAL) CAPABLE OF DETECTION BY A CABLE LOCATOR.
2. SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND ATTACHED WITH DUCT TAPE OR NYLON STRAPS AT 3 LOCATIONS PER JOINT. LOCATING WIRE SHALL TERMINATE AT THE TEST STATION BOX AS SHOWN IN FIG. 109.
3. BE CAPABLE OF EXTENDING 12" ABOVE TOP OF TEST STATION BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
4. SPLICES SHOULD BE MADE USING STANDARDS AND PRODUCTS DESIGNED FOR DIRECT BURIAL CONDUCTORS.
5. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED.

PIPE LOCATING WIRE DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 118

NOTES:
1. FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.
2. THE SHEAR PAD SHALL BE RECESSED SIX (6) INCHES BELOW THE FINISHED GRADE AND THE RECESSED SECTION SODDED.
3. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A TWELVE (12) INCH MINIMUM.
4. FIRE HYDRANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE CITY OF APOPKA CONSTRUCTION DESIGN STANDARDS MANUAL.

FIRE HYDRANT ASSEMBLY DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 402

NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS TO AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETERS LESS THAN 24", AND 24" FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.
8. SURFACE RESTORATION WITHIN CITY RIGHT-OF-WAY, SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS.
9. ALL UNPAVED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINATE GRASS SPECIES.

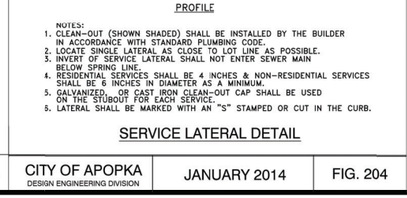
TYPE "B" BEDDING AND OPEN-CUT DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 100

NOTES:
1. ALL PIPE FITTINGS, MATERIALS, LABOR, AND APPURTENANCES SHALL BE SUPPLIED BY THE CONTRACTOR.
2. ALL PIPE AND FITTINGS TWO (2) INCHES AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL.

DOUBLE CHECK OR REDUCED PRESSURE ZONE DETECTOR ASSEMBLY
2 INCH AND BELOW ASSEMBLY

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 500 A



PROFILE

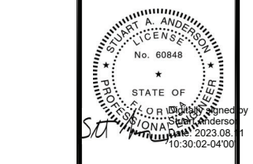
NOTES:
1. CLEAN-OUT (SHOWN SHADED) SHALL BE INSTALLED BY THE BUILDER IN ACCORDANCE WITH STANDARD PLUMBING CODE.
2. LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE.
3. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
4. RESIDENTIAL SERVICES SHALL BE 4 INCHES & NON-RESIDENTIAL SERVICES SHALL BE 6 INCHES IN DIAMETER AS A MINIMUM.
5. GALVANIZED, OR CAST IRON CLEAN-OUT CAP SHALL BE USED ON THE STUBOUT FOR EACH SERVICE.
6. LATERAL SHALL BE MARKED WITH AN "S" STAMPED OR CUT IN THE CURB.

SERVICE LATERAL DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 204

INTERPLAN
INTERPLAN LLC
AR99238
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PERMITTING
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ALTAMONTE SPRINGS, FL 32701
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MILLER'S ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 6-8-2023

C4.1
CITY OF APOPKA DETAILS

CHECKED: CDB DRAWN: GFC

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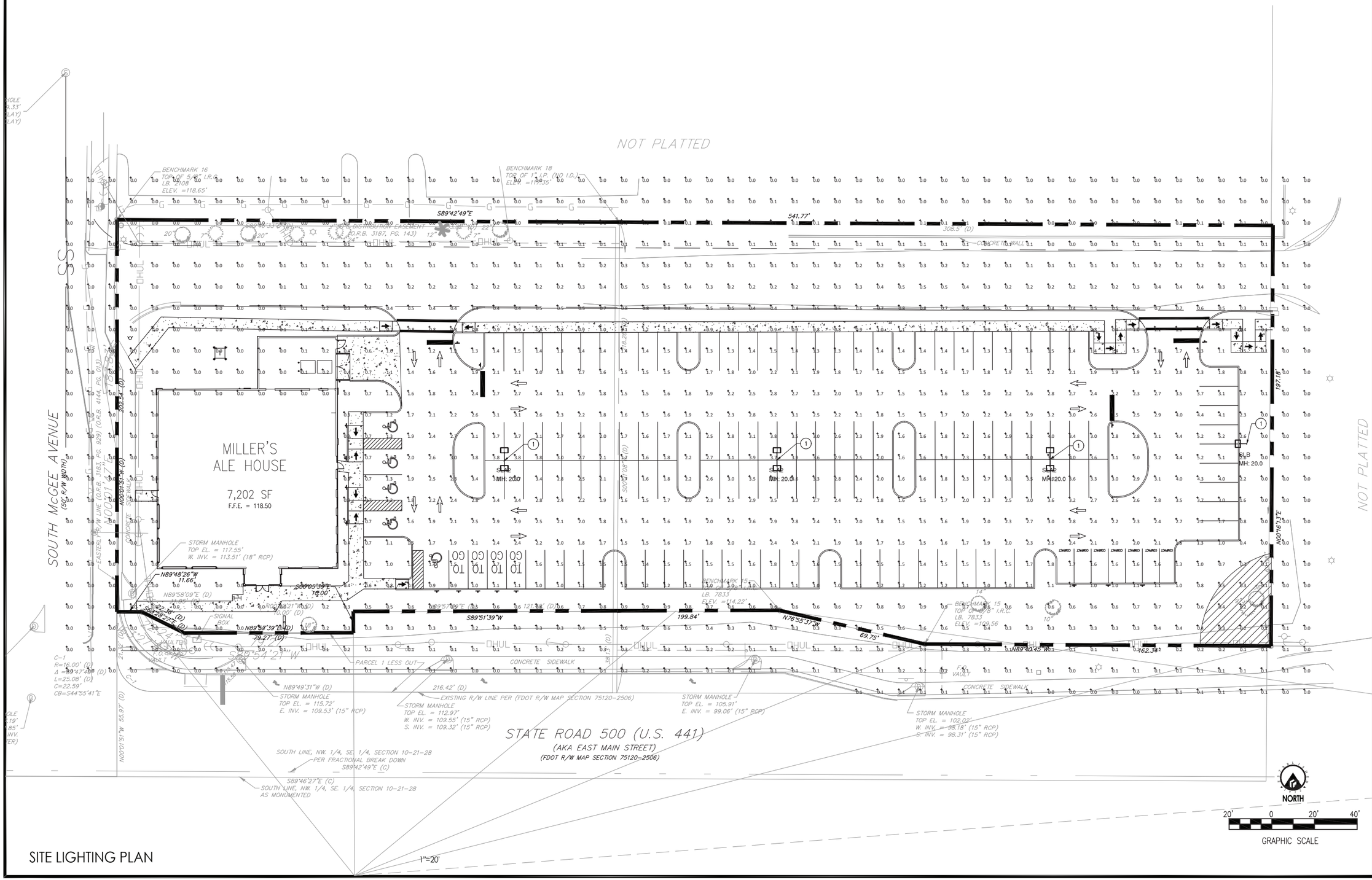
Landreth Lighting Luminaire Schedule

Symbol	[MANUFAC]	Qty	Label	Arrangement	Description	LLF	Lum. Watts	Lum. Lumens	BUG Rating
	Lithonia Lighting	3	SLA2	Back-Back	DSX0 LED P6 40K 70CRI T5W MVOLT RPA NLTAIR2 PIRHN XX; POLE MOUNTED @ 20FT AFG	1.000	137	18179	B5-U0-G3
	Lithonia Lighting	1	SLB	Single	DSX0 LED P6 40K 70CRI BLC3 MVOLT RPA NLTAIR2 PIRHN XX; POLE MOUNTED @ 20FT AFG	1.000	137	12461	B0-U0-G3

Landreth Lighting Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance	Fc	2.13	5.2	0.7	3.04	7.43
Property Line	Illuminance	Fc	0.14	0.8	0.0	N.A.	N.A.

REFER TO SHEET SL2 FOR LIGHT FIXTURE, AND POLE CUTSHEET AND SPECIFICATIONS.



SITE LIGHTING PLAN

1"=20'

INTERPLAN

INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
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PERMITTING

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323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 6-19-2023

SL1

SITE LIGHTING PLAN

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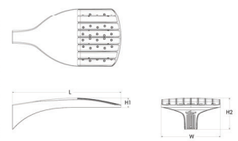


D-Series Size 0
LED Area Luminaire

d-series

Specifications

EPA:	0.44 ft² (0.04 m²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)



Catalog Number

Notes

Type

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature[1]	Color Rendering Index[1]	Distribution		Voltage	Mounting
DSX0 LED	**Forward optics**	(this section 70CRI only)		AFR Automotive front row	T5M Type V medium	MVOLT (120V-277V)[1]	**Shipped included**
	P1 P5	30K 3000K	70CRI	T1S Type I short	T5LG Type V low glare	HVOLT (347V-480V)[2,3]	SPA Square pole mounting (4@ drilling, 3.5" min. SQ pole)
	P2 P6	40K 4000K	70CRI	T2M Type II medium	T5W Type V wide	XVOLT (277V-480V)[2,3]	
	P3 P7	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control[1]		RPA Round pole mounting (4@ drilling, 3" min. RND pole)
	P4	(this section 80CRI only, extended lead times apply)		T4M Type IV medium	BLC4 Type IV backlight control[1]		SPA5 Squarepole mounting (4@ drilling, 3" min. SQ pole)[17]
	Rotated optics	P10[7] P12[7]	80CRI	T4LG Type IV low glare[1]	LCCO Left corner cutoff[1]		RPA5 Roundpole mounting (4@ drilling, 3" min. RND pole)[17]
	P11[7] P13[7]	27K 2700K	80CRI	TFTM Forward throw medium	RCCO Right corner cutoff[1]		SPA8N Squarenarrow pole mounting (4@ drilling, 3" min. SQ pole)
		30K 3000K	80CRI				WBA Wall bracket[18]
		35K 3500K	80CRI				MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
		40K 4000K	80CRI				
		50K 5000K	80CRI				

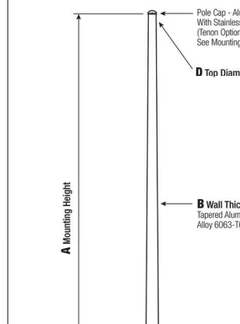
Control options		Other options		Finish (required)	
Shipped installed	PER7 Seven-pin receptacle only (controls ordered separately)[14,15]	**Shipped installed**		DDBXD Dark Bronze	
NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc[11,12,13,14]	FAO Field adjustable output[13,19]	HS Houseside shield (black finish standard)[20]		DBLXD Black	
	BL30 Bi-level switched dimming, 30%[14,19]	L90 Left rotated optics[1]		DNAXD Natural Aluminum	
PIR High/low, motion/ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc[11,12,13,14]	BL50 Bi-level switched dimming, 50%[14,19]	R90 Right rotated optics[1]		DWHXD White	
	DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[21]	CCE Coastal Construction[22]		DDBTXD Textured dark bronze	
PER NEMA twist-lock receptacle only (controls ordered separately)[14,15]		HA 50°C ambient operation[23]		DBLBXD Textured black	
PERS Five-pin receptacle only (controls ordered separately)[14,15]		**Shipped separately**		DNAXD Textured natural aluminum	
		EGSR External Glare Shield (reversible, field install required, matches housing finish)		DWHGXD Textured white	
		BSDB Bird Spikes (field install required)			

LITHONIA LIGHTING
COMMERCIAL OUTDOOR

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DSXD-LED
Rev. 04/25/23
Page 1 of 9

RTA — Round Tapered Aluminum Pole No Arm — 4-Bolt Base



Satin Aluminum or Powder Coated Finish per Customer Specification.

C Butt Dia.	D Top Dia.	F Box Cir. Dia.	G Base Sq.	H Bolt Proj.	I Bolt Size
4	3	3.5 - 8	7.5	2	.7| x 17 x 3
5	3	7.5 - 8	7.5	2	.7| x 17 x 3
6	4.5	9 - 10	9.75	2.75	.75 x 30 x 3*
7	4.5	10 - 11	10.5	2.75	1 x 36 x 4
8	4.5	11 - 12	11.25	2.75	1 x 36 x 4
9	4.5	12.5 - 14	12.75	2.75	1 x 36 x 4
10 Up To .250"	6	14 - 15	14	3.25	1 x 48 x 4
10 .312"	6	14 - 15	14	3.25	1.25 x 48 x 6

*"1" x .36" x 4" Anchor Bolts can be specified for 6" butt diameter poles.

Dimensions in Inches

Pole

The pole shaft will be constructed of seamless extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B221. The shaft assembly shal be full-length heat treated after base weld to produce a T6 temper.

Base Style

4-Bolt Cast Aluminum Base Flange of Alloy 356-T6 with Aluminum Bolt Covers (Alloy 356-F) and Stainless Steel Hex Head Attaching Screws.



Handhole

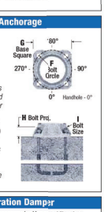
4"-5" Butt Diameters - *2" x 4" Handhole with curved Lap Style Aluminum Door and two (2) SS Self-Tapping Attaching Screws. A Grounding Provision incorporating a tapped 1/4"-20NC hole is provided.*

6" Butt Diameter - *Reinforced, 3" x 1" curved Cast Aluminum Frame (Alloy 356-T6) with Aluminum Door and two (2) SS Hex Head Screws. A Grounding Provision incorporating a 3/8" diameter hole is provided opposite the Handhole.*

7"+ Butt Diameters - *Reinforced, 4" x 6" curved Cast Aluminum Frame (Alloy 356-T6) with Aluminum Door and two (2) SS Hex Head Screws. Reinforced Frame will contain a tapped 3/8"-16NC Grounding Provision.*

Anchorage

Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M314-90 Grade 55. Ten inches (10") of threaded end will be galvanized per ASTM A153. Kits will contain four (4) Hex Nuts, four (4) Lock Washers, and four (4) Flat Washers (all components Galvanized Steel). A bolt circle template will be provided.

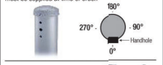


Vibration Damper

When determined necessary by Hapco, a Vibration Damper will be factory-installed inside the pole shaft. Customer specification of the damper's available.

Mounting Designation

Side Drill Mount
For Side Drill Mount applications specify luminaire type, quantity and orientation. A luminaire drilling template must be supplied at time of order.



Tenon Mount - Welded or Spun
For Tenon Mount applications specify both Tenon diameter (2.375", 2.875", 3.5", etc.) and length (3", 4", etc.). Tenon style is factory option. Welded Tenon can be specified.



WARNING: *Do not install light pole without luminaire.*

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FLORIDA BUILDING CODE GUIDE 2017 FBC EPA's

A Mtg. Hgt.	B Wall Thickness	C Butt Dia.	Total Lbs. Weight	Maximum EPA 120	130	140	150	160	170	180	Old Catalog Number	Catalog Number
06	0.125	4	125	11.1	9.3	8.0	6.9	6.0	5.2	4.6	78-001	RTA06B4A4-**
08	0.125	4	90	7.9	6.6	5.6	4.7	4.0	3.5	3.0	78-002	RTA08B4A4-**
08	0.188	4	130	11.6	9.7	8.3	7.1	6.1	5.3	4.7	78-015	RTA08D4A4-**
10	0.125	4	65	5.8	4.8	4.0	3.3	2.8	2.3	2.0	78-003	RTA10B4A4-**
10	0.188	4	100	8.8	7.3	6.1	5.2	4.4	3.8	3.3		RTA10D4A4-**
10	0.125	5	130	11.5	9.6	8.1	6.9	6.0	5.2	4.5	78-012	RTA10B5A4-**
10	0.188	5	200	17.1	14.4	12.3	10.5	9.1	8.0	7.1		RTA10D5A4-**
12	0.125	4	50	4.4	3.5	2.8	2.2	1.8	1.4	1.2	78-004	RTA12B4A4-**
12	0.188	4	75	6.8	5.6	4.6	3.8	3.2	2.7	2.2	78-018	RTA12D4A4-**
12	0.125	5	105	9.0	7.4	6.2	5.2	4.4	3.8	3.3	78-009	RTA12B5A4-**
12	0.156	5	130	11.4	9.5	8.0	6.8	5.8	5.0	4.4	78-009W3	RTA12C5A4-**
12	0.188	5	160	13.7	11.5	9.7	8.2	7.1	6.2	5.4	78-009W4	RTA12D5A4-**
14	0.125	4	40	3.2	2.4	1.8	1.4	1.0	0.7	-	78-005	RTA14B4A4-**
14	0.188	4	60	5.3	4.2	3.4	2.7	2.2	1.7	1.4	78-019	RTA14D4A4-**
14	0.125	5	80	7.2	5.8	4.8	3.9	3.3	2.8	2.3	78-010	RTA14B5A4-**
14	0.156	5	105	9.2	7.5	6.2	5.2	4.4	3.8	3.2	78-021	RTA14C5A4-**
14	0.188	5	130	11.2	9.2	7.7	6.5	5.5	4.8	4.1	78-022	RTA14D5A4-**
16	0.188	4	45	4.0	3.1	2.4	1.8	1.3	1.0	0.7	78-027	RTA16D4A4-**
16	0.125	5	65	5.6	4.4	3.5	2.8	2.3	1.9	1.5	78-011	RTA16B5A4-**
16	0.156	5	85	7.3	5.9	4.8	3.9	3.3	2.7	2.3	78-029	RTA16C5A4-**
16	0.188	5	105	9.1	7.4	6.1	5.1	4.2	3.6	3.1	78-030	RTA16D5A4-**
16	0.156	6	170	14.5	12.1	10.3	8.8	7.7	6.7	5.9	51-002548	RTA16C6B4-**
16	0.188	6	215	17.8	14.9	12.7	10.9	9.5	8.3	7.3		RTA16D6B4-**
18	0.125	5	50	4.2	3.2	2.5	1.9	1.4	1.1	0.8	78-007	RTA18B5A4-**
18	0.156	5	65	5.7	4.5	3.6	2.9	2.3	1.9	1.5	78-031	RTA18C5A4-**
18	0.188	5	85	7.2	5.8	4.7	3.8	3.1	2.6	2.2	78-032	RTA18D5A4-**
18	0.156	6	140	11.9	9.8	8.3	7.1	6.1	5.3	4.7		RTA18C6B4-**
18	0.188	6	175	14.7	12.3	10.4	8.9	7.7	6.8	5.9		RTA18D6B4-**
18	0.156	7	215	17.8	14.8	12.6	10.9	9.4	8.3	7.3		RTA18C7B4-**
20	0.125	5	40	3.0	2.2	1.5	1.0	0.7	-	-	78-008	RTA20B5A4-**
20	0.156	5	50	4.4	3.3	2.5	1.9	1.5	1.1	0.8	78-033	RTA20C5A4-**
20	0.188	5	65	5.7	4.4	3.5	2.8	2.2	1.8	1.4		RTA20D5A4-**
20	0.125	6	85	7.2	5.8	4.8	4.1	3.4	2.9	2.5	51-001	RTA20B6A4-**
20	0.156	6	115	9.7	8.0	6.7	5.7	4.9	4.2	3.6	51-002	RTA20C6B4-**
20	0.188	6	145	12.3	10.1	8.5	7.3	6.3	5.4	4.8	51-003	RTA20D6B4-**
20	0.156	7	180	15.0	12.4	10.5	9.0	7.8	6.8	5.9	51-004	RTA20C7B4-**
20	0.188	7	225	18.5	15.4	13.1	11.3	9.8	8.5	7.5	51-005	RTA20D7B4-**
20	0.156	8	255	21.0	17.6	15.0	12.9	11.2	9.8	8.6	51-006	RTA20C8B4-**
20	0.188	8	300	25.8	21.6	18.5	15.9	13.9	12.2	10.7	51-007	RTA20D8B4-**
25	0.156	6	65	5.7	4.4	3.6	2.9	2.4	2.0	1.7	51-062	RTA25C6B4-**
25	0.188	6	90	7.6	6.0	5.0	4.1	3.5	2.9	2.5	51-063	RTA25D6B4-**
25	0.188	8	215	18.0	14.9	12.6	10.8	9.4	8.1	7.1	51-067	RTA25D8B4-**
25	0.219	8	260	21.4	17.8	15.2	13.0	11.3	9.8	8.6	51-068	RTA25E8B4-**
25	0.250	8	300	24.8	20.7	17.6	15.2	13.2	11.5	10.1	51-069	RTA25F8B4-**
25	0.156	9	235	19.6	16.3	13.9	11.9	10.3	8.9	7.8		RTA25C9B4-**
25	0.156	10	300	25.9	21.8	18.6	16.0	13.8	12.1	10.5		RTA25C1C4-**
30	0.156	7	70	6.0	4.5	3.6	2.9	2.4	2.0	1.6	51-124	RTA30C7B4-**
30	0.188	7	95	8.1	6.4	5.2	4.3	3.6	3.0	2.6	51-125	RTA30D7B4-**
30	0.156	8	115	9.7	7.8	6.4	5.4	4.5	3.9	3.3	51-126	RTA30C8B4-**
30	0.188	8	150	12.6	10.3	8.6	7.3	6.2	5.3	4.6	51-127	RTA30D8B4-**
30	0.219	8	185	15.4	12.6	10.6	9.0	7.7	6.7	5.8	51-128	RTA30E8B4-**
30	0.250	8	220	18.0	14.9	12.5	10.7	9.2	8.0	7.0	51-129	RTA30F8B4-**
30	0.188	9	215	17.6	14.6	12.4	10.5	9.1	7.8	6.8	51-131	RTA30D9B4-**
30	0.250	9	300	24.7	20.6	17.5	15.0	13.0	11.3	9.9	51-133	RTA30F9B4-**
30	0.188	10	285	23.7	19.9	16.9	14.5	12.5	10.8	9.4	51-139	RTA30D1C4-**
30	0.250	10	300	32.8	27.7	23.6	20.3	17.6	15.4	13.5	51-141	RTA30F1C4-**
35	0.156	8	75	6.1	4.7	3.7	3.0	2.4	1.9	1.5	51-186	RTA35C8B4-**
35	0.188	8	105	8.5	6.7	5.5	4.5	3.7	3.1	2.6	51-187	RTA35D8B4-**
35	0.219	8	130	10.8	8.6	7.1	6.0	5.0	4.2	3.6	51-188	RTA35E8B4-**
35	0.250	8	160	13.0	10.5	8.7	7.4	6.3	5.3	4.6	51-189	RTA35F8B4-**
35	0.188	9	155	12.7	10.4	8.6	7.3	6.1	5.2	4.4	51-191	RTA35D9B4-**
35	0.250	9	225	18.5	15.3	12.9	11.0	9.4	8.1	7.0	51-193	RTA35F9B4-**
35	0.188	10	215	17.8	14.8	12.5	10.6	9.1	7.7	6.6	51-199	RTA35D1C4-**
35	0.219	10	260	21.5	18.0	15.2	13.0	11.1	9.6	8.3	51-200	RTA35E1C4-**
35	0.250	10	300	25.2	21.1	17.9	15.3	13.2	11.4	9.9	51-201	RTA35F1C4-**
35	0.312	10	300	32.5	27.4	23.3	20.0	17.3	15.1	13.1	51-202	RTA35G1C4-**
40	0.188	8	65	5.3	3.9	3.0	2.3	1.8	1.3	1.0	51-247	RTA40D8B4-**
40	0.219	8	90	7.3	5.5	4.4	3.5	2.9	2.3	1.8	51-248	RTA40E8B4-**
40	0.250	8	110	9.1	7.1	5.8	4.7	3.9	3.2	2.7	51-249	RTA40F8B4-**
40	0.188	9	105	8.9	7.1	5.7	4.7	3.9	3.2	2.6	51-251	RTA40D9B4-**
40	0.250	9	170	13.8	11.2	9.3	7.8	6.6	5.6	4.7	51-253	RTA40F9B4-**
40	0.188	10	155	13.3	11.0	9.1	7.6	6.4	5.3	4.4	51-259	RTA40D1C4-**
40	0.219	10	195	16.4	13.6	11.4	9.6	8.2	6.9	5.8	51-260	RTA40E1C4-**
40	0.250	10	235	19.5	16.3	13.7	11.6	9.9	8.4	7.2	51-261	RTA40F1C4-**
40	0.312	10	300	25.5	21.4	18.1	15.5	13.3	11.4	9.9	51-262	RTA40G1C4-**

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FLORIDA BUILDING CODE GUIDE 2017 FBC EPA's

EPA Note:
EPAs based on symmetrically placed stick mounted fixture(s) not exceeding height of the pole.

Catalog Number System
The catalog number for Hapco poles utilizes the following identification system.

MOUNTING HEIGHT	BUTT DIA.	BASE STYLE	
R T A		4	-
SHAFT ASSEMBLY	WALL THICK.	TIP DIA.	FINISH

Catalog Number Example -
RTA 30 D 8 B 4 – 01
Round Tapered Aluminum, 30' Mounting Height, 1/8R" Wall Thickness, 8" Butt Diameter, 4.5" Top Diameter, 4-Bolt Base, Satin Aluminum Finish

Wall Thickness
B = .125"
C = .156"
D = .188"
E = .219"
F = .250"
G = .312"

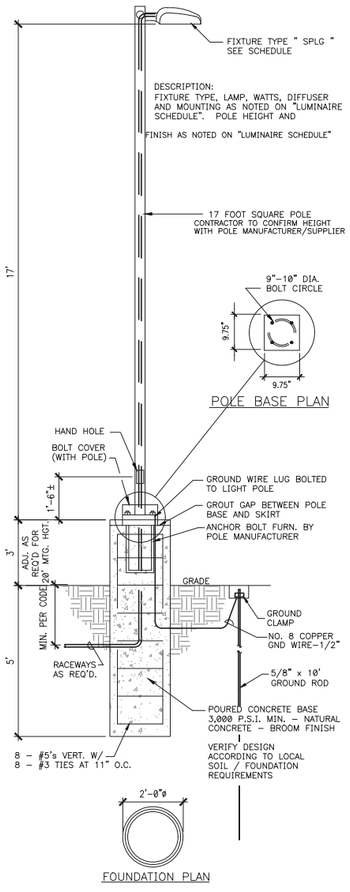
Butt Diameter
4 = 4"
5 = 5"
6 = 6"
7 = 7"
8 = 8"
9 = 9"
1 = 10"

Top Diameter
A = 3"
B = 4.5"
C = 6"

Base Style
4 = 4-Bolt Base

Finish
01 = Satin Aluminum
BA = Black Powder Coat
BH = White Powder Coat
BM = Dark Bronze Powder Coat
BV = Dark Green Powder Coat
GC = Gray Powder Coat
★★ = Specify Finish

RTA - Round Tapered Aluminum Pole | No Arm | 4-Bolt Base



NOTES:
ALL CONCRETE POLE BASES TO BE INSTALLED OF 24"–36" BEHIND BACK OF CONCRETE CURB.

POLE SHALL BE CAPABLE OF WITHSTANDING 130 MPH WIND SPEED.

SITE LIGHTING POLE PERMIT WILL BE SUBMITTED UNDER A SEPARATE APPLICATIPON AND AT LATER DAY.

1 SITE LIGHTING POLE AND BASE
NTS

SITE LIGHTING DETAILS

1"=20'

INTERPLAN
INTERPLAN LLC

AR99238
CA 8660

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY, STE 4000
ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:

This item has been digitally signed and sealed by Stuart Anderson on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NO DATE REMARKS
REVISIONS

MILLER'S ALE HOUSE

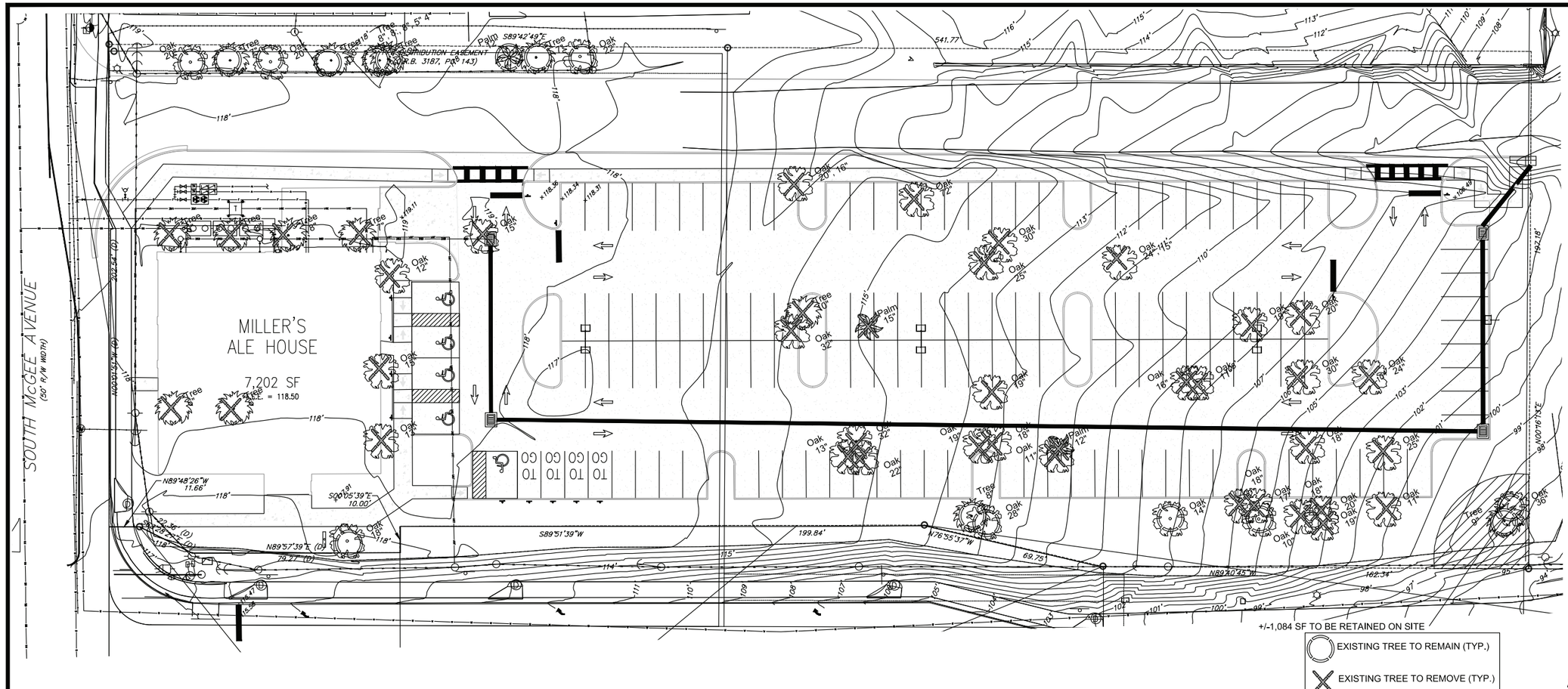
MILLER'S
ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 6-19-2023

SL2
SITE LIGHTING DETAILS

CHECKED: CDB DRAWN: GFC

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+/-1,084 SF TO BE RETAINED ON SITE

EXISTING TREE TO REMAIN (TYP.)

EXISTING TREE TO REMOVE (TYP.)

GRAPHIC SCALE

30 0 10 20 40

(IN FEET)
1 inch = 20 ft.

Existing Trees to Remove		
Count	SIZE	TYPE
1	32"	Oak
1	11"	Oak
1	18"	Oak
1	16"	Oak
2	19"	Oak
1	13"	Oak
3	6"	Tree
1	10"	Tree
1	7"	Tree
2	8"	Tree
1	72"	Oak
1	20", 16"	Oak
2	25"	Oak
1	24", 15"	Oak
1	17"	Oak
3	18"	Oak
1	13"	Oak
1	22"	Oak
2	11"	Oak
2	30"	Oak
2	19"	Oak
2	20"	Oak
2	15"	Oak
1	32"	Oak
1	24"	Oak
1	12"	Oak
1	12"	Palm
1	15"	Palm

Existing Trees to Remain		
Count	SIZE	TYPE
1	28"	Oak
1	8"	Tree
1	8"	Tree
1	9"	Tree
2	7"	Tree
1	24"	Tree
1	8", 8, 8", 5" 4"	Tree
1	14"	Oak
1	10"	Oak
1	36"	Oak
1	22"	Oak
2	20"	Oak
1	18"	Oak
1	12"	Palm

EXISTING TREE CANOPY - 42%
2.35 X 42% = 42,993 SF
42,993 SF X 42% = 18,057 SF
RETAIN 6%
18,057 SF X 6% = 1,084 SF TO BE RETAINED

48 HOURS BEFORE YOU DIG
CALL SUNSHINE
1-800-432-4770 or 811
IT'S THE LAW IN FLORIDA
FLORIDA LAW REQUIRES EXCAVATORS TO NOTIFY OWNERS OF UNDERGROUND FACILITIES NO LESS THAN TWO (2) DAYS PRIOR TO EXCAVATION

CADDSCAPES, INC.
Florida Landscape Architecture Firm
432 Nowell Loop
Deland, FL 32724
Office: 407 310-5567
Landscape Architect:
Jason Bridgewater, RLA
Florida Water Star AP
jasonbridgewater@gmail.com

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PERMITTING
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ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:
DATE: 2023-08-09

Digitally signed by Jason P Bridgewater
Date: 2023.08.10 09:36:37 -04'00'

Jason P. Bridgewater
Registered Landscape Architect
FL. Registration -LA 6667308

NO DATE REMARKS
REVISIONS

MILLER'S ALE HOUSE

MILLER'S
ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 2023-08-09

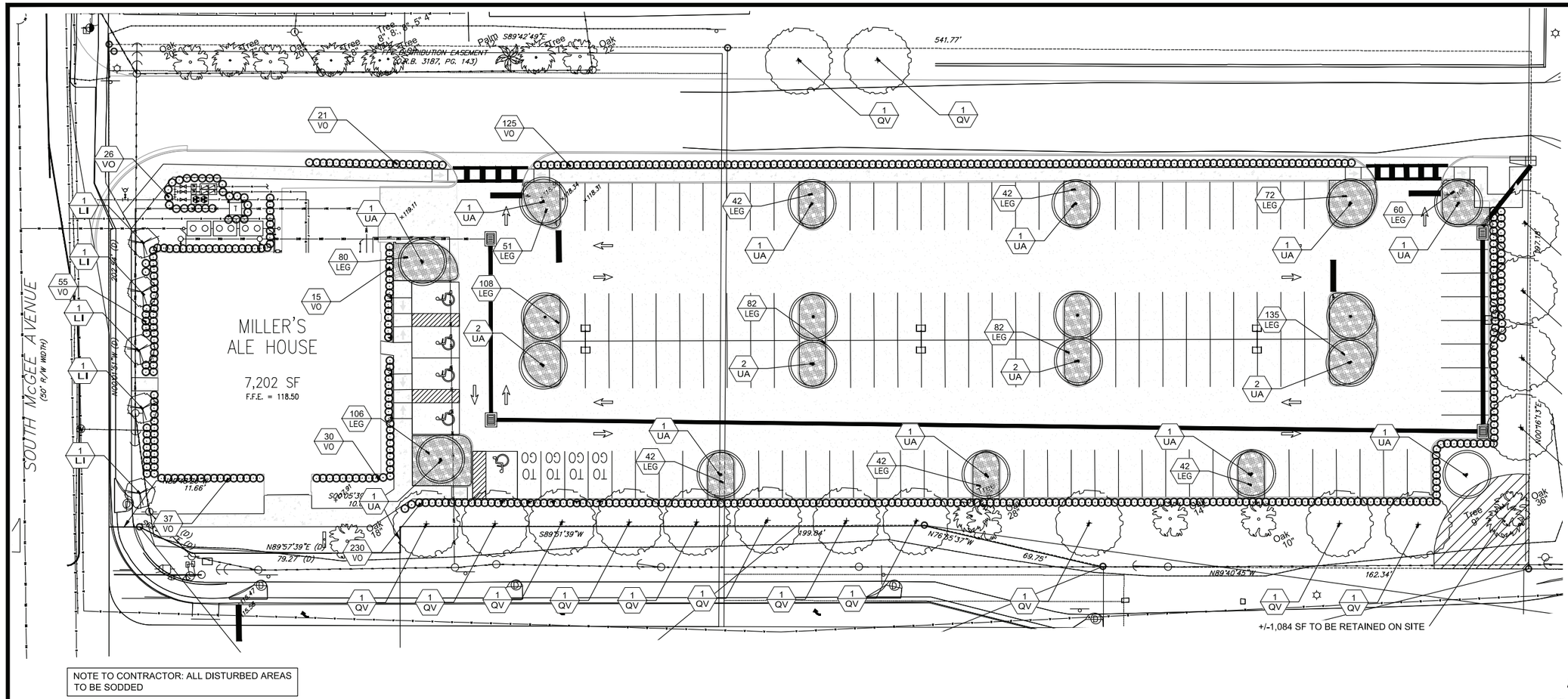
L-1

TREE MITIGATION PLAN

CHECKED: JB DRAWN: JB

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ENGINEERING
PERMITTING
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ALTAMONTE SPRINGS, FL 32701
407.645.5008

SEAL:
DATE: 2023.08.09

Digitally signed by Jason P Bridgewater
Date: 2023.08.10 09:37:02 -04'00'

Jason P. Bridgewater
Registered Landscape Architect
FL. Registration -LA 6667308

NO DATE REMARKS
REVISIONS

CADDSCAPES, INC.
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Office: 407 310-5567
Landscape Architect:
Jason Bridgewater, RLA
Florida Water Star AP
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FLORIDA LAW REQUIRES EXCAVATORS TO NOTIFY OWNERS OF UNDERGROUND FACILITIES NO LESS THAN TWO (2) DAYS PRIOR TO EXCAVATION

MILLER'S ALE·HOUSE

MILLER'S
ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

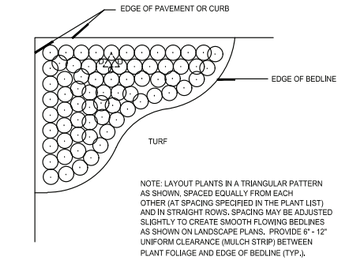
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DATE: 2023-08-09

L-2

LANDSCAPE PLAN

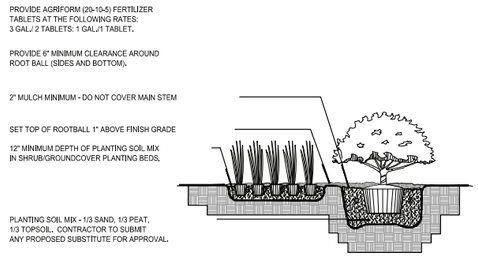
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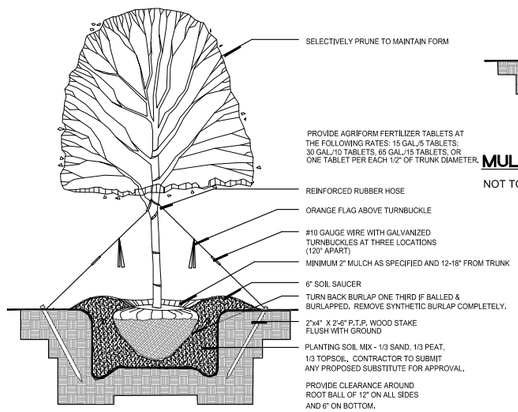
SHRUB/GROUNDCOVER SPACING DETAIL

NOT TO SCALE



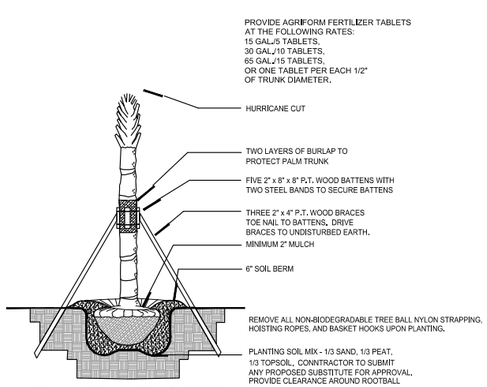
SHRUB AND GROUNDCOVER PLANTING DETAIL

NOT TO SCALE



TREE PLANTING DETAIL

NOT TO SCALE



PALM PLANTING DETAIL

NOT TO SCALE

LANDSCAPE PLANTING NOTES:

1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL FREE OF PESTS AND DISEASES.
2. ALL PLANTS SHALL BE FLORIDA FANCY, AS GRADED IN FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.
3. ALL PLANTS ARE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER BEFORE, DURING, AND AFTER INSTALLATION.
4. ALL SINGLE-TRUNKED TREES SHALL BE STRAIGHT TRUNKED WITH ONE CENTRAL LEADER AND HAVE A FULL, DENSE CROWN.
5. ALL TREES SHALL BE STAKED AND GUYED AS SHOWN IN PLANTING DETAILS.
6. ALL MULCH PLANTING AREAS SHALL BE A MINIMUM OF 2" IN DEPTH.
7. ALL PLANTING AREAS SHALL HAVE A MINIMUM OF 3" TOPSOIL.
8. ALL TREES SHALL BE FREE OF OPEN WOUNDS AND WOUND SCARS IN THE CLEAR TRUNK AREA.
9. ANY SYNTHETIC BURLAP AND/OR WIRE BASKETS MUST BE TOTALLY REMOVED PRIOR TO INSTALLATION OF PLANT MATERIAL. IF NATURAL BURLAP IS USED, IT MAY BE TURNED DOWN 1/3 OF THE ROOTBALL.
10. CALIPER TO BE MEASURED (6) SIX INCHES ABOVE ROOTBALL.

LANDSCAPE CONTRACTOR NOTES:

1. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, IN FULL, ALL LANDSCAPE PLANTING AREAS, UNTIL THE JOB IS ACCEPTED IN FULL BY THE OWNER. "IN FULL" MEANS WATERING, PEST CONTROL, MULCHING, MOWING, FERTILIZING AND RESETTING TREES THAT ARE OUT OF PLUMB.
2. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL INSTALLED PLANT MATERIAL FOR A PERIOD OF ONE CALENDAR YEAR BEGINNING ON THE DATE OF 100% COMPLETION. ANY AND ALL REQUIRED PLANT REPLACEMENTS SHALL BE MADE PROMPTLY AND AT NO ADDITIONAL COST TO THE OWNER.
3. THE LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL PLANT MATERIAL AND PLANTING BED LINES FOR REVIEW BY THE LANDSCAPE ARCHITECT AND OWNER.
4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL WRITTEN PLANT QUANITIES PRIOR TO INITIATION OF THE WORK. IN THE EVENT THAT THE PLANS CONTRADICT THE PLANT LIST, THE PLANS SHALL RULE.
5. THE LANDSCAPE CONTRACTOR SHALL BE FAMILIAR WITH AND ACCEPT THE EXISTING SITE CONDITIONS PRIOR TO INITIATION OF THE WORK. ANY VARIATION FROM THE SPECIFIED WORK SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
6. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, DRAINAGE STRUCTURES, CURBS, SIDEWALKS, AND ANY OTHER OBJECTS WHICH MIGHT BE DAMAGED DURING THE WORK.
7. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY AND ALL NECESSARY REPAIRS TO DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER OR LANDSCAPE ARCHITECT.
8. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, AND FOLLOWING ALL APPLICABLE LOCAL CODES PERTAINING TO THE PROJECT DURING THE COURSE. OF HIS WORK.

PLANT LIST

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	DESCRIPTION	REMARKS
TREES					
LI	5	LAGERSTROEMIA INDICA	CRAPE MYRTLE	8' HT MINIMUM WITH 2.5" CALIPER MINIMUM CUMULATIVE	SPACE AS SHOWN GUY
QV	17	QUERCUS VIRGINIANA	LIVE OAK	12'-14' HT x 5' SPR. / 3" CAL	SPACE AS SHOWN GUY
UA	19	ULMUS ALATA	WINGED ELM	12'-14' HT x 5' SPR. / 3" CAL	SPACE AS SHOWN GUY
SHRUBS					
VO	490	VIBURNUM ODOR ATISSIMUM	SWEET VIBURNUM	36" HT. x 30" SPRD. / FULL / 7G	30" O.C.
GROUNDCOVERS					
LEG	935	LIRIOPE MUSCARI 'EVERGREEN GIANT'	EVERGREEN GIANT LIRIOPE	3-4 PPP 3 GAL CAN FULL	24" O.C.
SOD					
	SEE PLANS	PASPALUM NOTATUM	ARGENTINE ABHIA SOD	SOLID, FREE OF PESTS AND DISEASES	FIELD VERIFY QTY.
MULCH					
	SEE PLANS	MINI PINE BARK NUGGETS	MINI PINE BARK NUGGETS	FREE OF DIRT AND DEBRIS	FIELD VERIFY QTY.

CITY OF APOPKA LANDSCAPE NOTES:

NORTH PROPERTY LINE ADJACENT TO PROPERTY: 541.77'/ 35 = 15.4 TREES AND 154 SHRUBS REQUIRED
PROVIDED: 15 TREES AND 154 SHRUBS
WEST PROPERTY LINE ADJACENT TO ROW: 183.83'/ 35 = 5.2 TREES AND 52 SHRUBS REQUIRED
PROVIDED: 5 TREES AND 52 SHRUBS
SOUTH PROPERTY LINE ADJACENT TO ROW: 555.09'/ 35 = 15.8 TREES AND 158 SHRUBS REQUIRED
PROVIDED: 16 TREES AND 158 SHRUBS
EAST PROPERTY LINE ADJACENT TO PROPERTY: 197.18'/ 35 = 5.6 TREES AND 56 SHRUBS REQUIRED
PROVIDED: 6 TREES AND 56 SHRUBS
VEHICULAR USE AREA = +/-44,830 SQ.FT. X 10% = 4,483 SQ.FT. OF LANDSCAPE AREA REQUIRED
PROVIDED: GREATER THAN 4,483 SQ.FT. OF LANDSCAPE AREA PROVIDED
30% SHADE CANOPY TREES OVER PARKING LOT REQUIRED
PROVIDED: GREATER THAN 30% PARKING LOT COVERED BY FUTURE CANOPY COVERAGE

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1-800-432-4770 or 811
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FLORIDA LAW REQUIRES EXCAVATORS TO NOTIFY OWNERS OF UNDERGROUND FACILITIES NO LESS THAN TWO (2) DAYS PRIOR TO EXCAVATION

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SEAL:
DATE: 2023-08-09

Digitally signed by Jason P Bridgewater
Date: 2023.08.10 09:37:46 -04'00'

Jason P. Bridgewater
Registered Landscape Architect
FL. Registration -LA 6667308

NO DATE REMARKS
REVISIONS

MILLER'S ALE HOUSE

MILLER'S
ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 2023-08-09

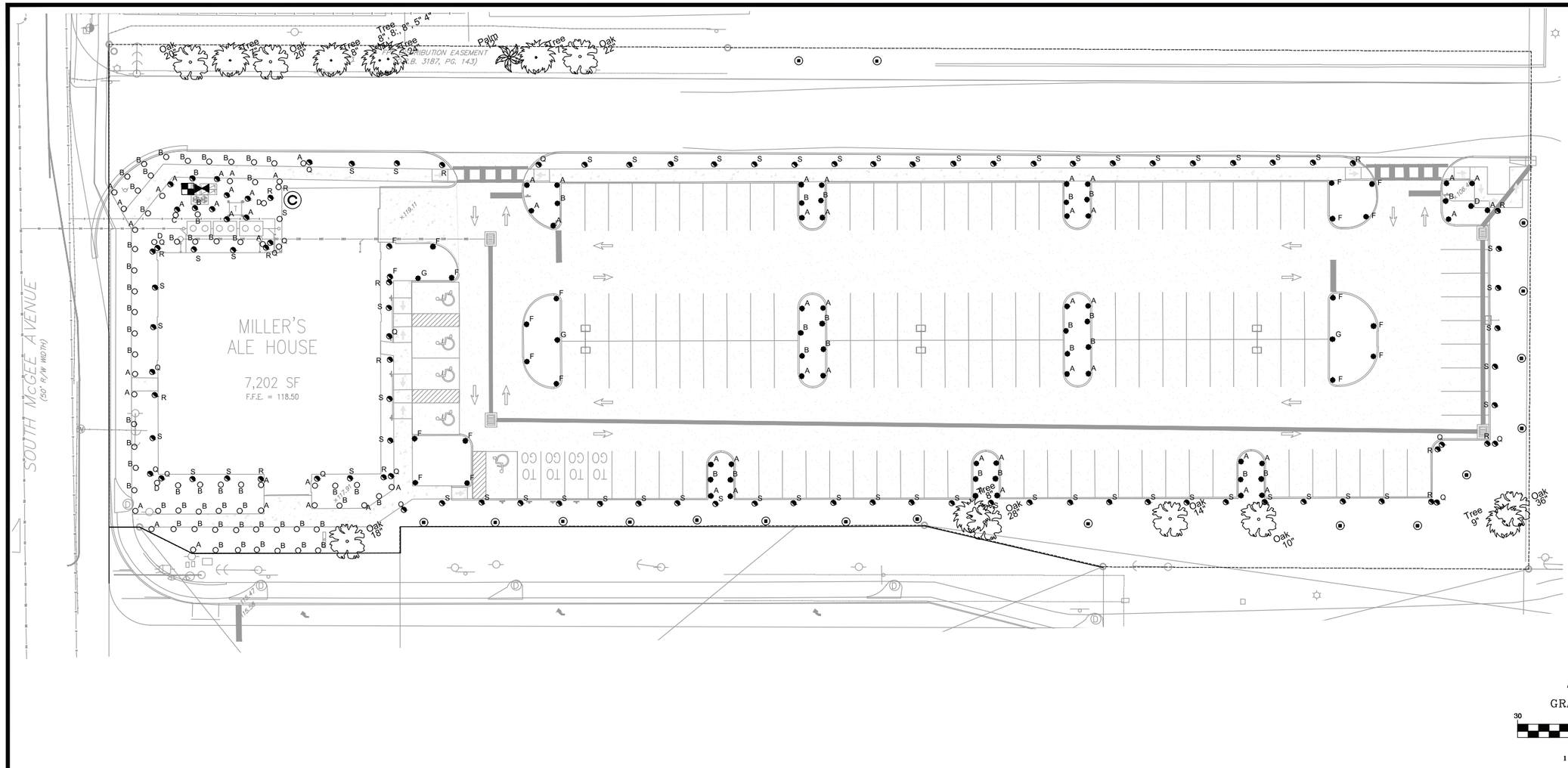
L-3

LANDSCAPE DETAILS

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L-4

IRRIGATION
SPRAYHEAD PLAN

CHECKED: JB DRAWN: JB

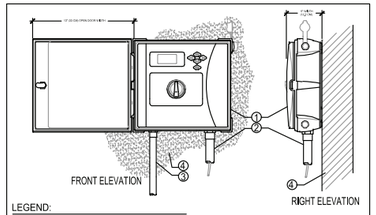
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IRRIGATION DETAILS

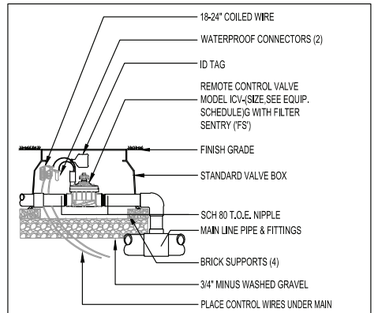


LEGEND:

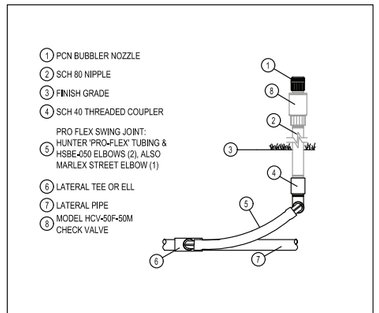
1. IRRIGATION CONTROLLER (12C-800-PL) PER PLAN
2. IRRIGATION CONTROL WIRE IN CONDUIT SIZE AND TYPE PER LOCAL CODES
3. ELECTRICAL SUPPLY CONDUIT CONNECT TO POWER SOURCE, J-BOX INSIDE CONTROLLER
4. ADJACENT SURFACE TO MOUNT CONTROLLER PER PLAN

NOTE
MOUNT CONTROLLER LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC POWER SOURCE

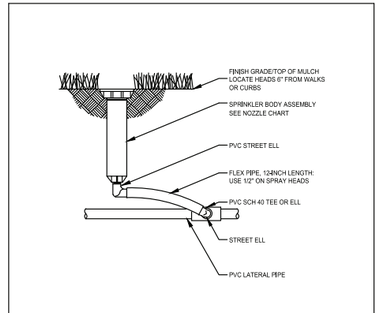
(A) ICC2 WALL MOUNT CONTROLLER



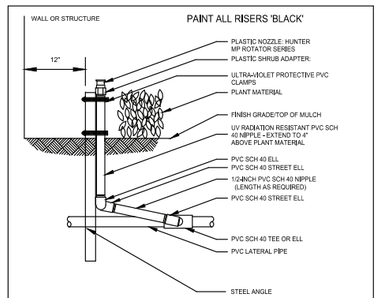
(B) ICV-151 OR 201 GLOBE VALVE



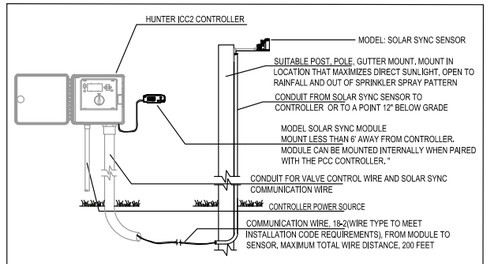
(C) PCN BUBBLER



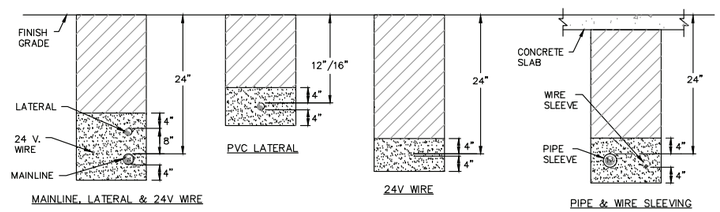
(D) HEAD DETAIL



(E) SHRUB RISER DETAIL



(F) HUNTER SOLAR SYNC SYSTEM



NOTES:

1. BEDDING SHALL BE PLACED AND LEVELED PRIOR TO INSTALLATION OF BURY ITEM.
2. BACKFILL SHALL BE PLACED IN MAXIMUM 6" LIFTS.
3. SLEEVE ALL PIPE AND WIRE SEPARATELY. SLEEVE 2 X DIA. OF PIPE (MIN 2"). ONE PIPE PER SLEEVE. SLEEVES TO BE PRIMED AND SOLVENT WELDED.
4. ALL PIPE TO BE INSTALLED PER MANUFACTURES SPECIFICATIONS WITH PIPE LABELING FACING UP FOR INSPECTION PURPOSES. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
5. ALL 120 V. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
6. TAPE AND BUNDLE IRRIGATION CONTROL WIRES EVERY 10'. PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 30°.
7. ALL REMOTE CONTROL VALVE WIRING NOT INSTALLED WITH MAINLINE PIPE SHALL BE INSTALLED IN A MINIMUM 2" SCHEDULE 40 GREY ELECTRICAL CONDUIT OR AS APPROVED.
8. "NON-POTABLE" WARNING TAPE TO BE INSTALLED ON ALL PRESSURIZED MAINLINES 12" ABOVE THE PIPE.
9. INSTALL ONE ADDITIONAL SLEEVE SIZED TO MATCH THE LARGEST REQUIRED SLEEVE WITH ENDS TAPED FOR FUTURE USE.
10. SLEEVES TO EXTEND A MINIMUM OF 12" PAST HARDSCAPE PLANTERS, CURBS, SIDEWALKS, ETC. SLEEVES TO BE STAGGERED/OFFSET SO THAT SLEEVE USE IS NOT OBSTRUCTED BY OTHER PIPES.
11. WHERE PRESSURE SUPPLY PIPING IS INSTALLED WITHOUT CONTROL WIRING, A 14 GA. TRACKING WIRE SHALL BE INSTALLED.

(G) TRENCHING DETAILS

SPRAY NOZZLE CHART

	SYM	NOZZLE	NOZZLE PATTERN	GPM
MP1000 8'-15' radius	A	MAROON	90° ADJUSTABLE ARC	.19
	B	MAROON	180° ADJUSTABLE ARC	.37
	C	LT. BLUE	210° ADJUSTABLE ARC	.43
	D	LT. BLUE	270° ADJUSTABLE ARC	.57
	E	OLIVE	360° ARC	.75
MP2000 13'-21' radius	F	BLACK	90° ADJUSTABLE ARC	.40
	G	BLACK	180° ADJUSTABLE ARC	.74
	H	GREEN	210° ADJUSTABLE ARC	.86
	I	GREEN	270° ADJUSTABLE ARC	1.10
	J	RED	360° ARC	1.47
MP3000 22'-30' radius	K	BLUE	90° ADJUSTABLE ARC	.86
	L	BLUE	180° ADJUSTABLE ARC	1.82
	M	YELLOW	210° ADJUSTABLE ARC	2.12
	N	YELLOW	270° ADJUSTABLE ARC	2.73
	O	GRAY	360° ARC	3.64
STRIPS & CORNERS	P	TURQOUISE	45°-105° ADJUSTABLE ARC	.45
	Q	IVORY	5'x15' LEFT STRIP	.22
	R	COPPER	5'x15' RIGHT STRIP	.22
	S	BROWN	5'x30' SIDE STRIP	.44
BUBBLERS AND MICRO-SPRAYS	T	PCN10	1.00 GPM FLOOD BUBBLER	1.00
	U	PCN50	.50 GPM FLOOD BUBBLER	.50
	V	SR-2Q	90° 2' RADIUS	.11
	W	SR-2H	180° 2' RADIUS	.16
	X	MS-F	360° 5' RADIUS	.50

IRRIGATION NOTES

1) REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREES AND SHRUBS.

2) ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.

3) ALL POP-UP ROTORS AND SPRAY HEADS SHALL BE INSTALLED USING AN 18" P.V.C. FLEX PIPE CONNECTION. DO NOT USE FUNNY PIPE.

4) ADJUST ALL NOZZLES TO REDUCE WATER WASTE ON HARD SURFACES AND BUILDING WALLS.

5) THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING.

6) ALL RISERS SHALL BE PAINTED BLACK.

7) ALL RISERS SHALL BE STAKED WITH A STEEL ANGLE AND SECURED WITH ULTRA-VIOLET LIGHT PROTECTED P.V.C. CLAMPS.

8) ALL CONTROL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING SNAP-TITE CONNECTORS AND SEALANT.

9) THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING ON A REPRODUCIBLE PAPER (SEPIA OR MYLAR) SHOWING ALL INSTALLED IRRIGATION. A MYLAR OR SEPIA OF THE ORIGINAL PLAN MAY BE OBTAINED FROM THE LANDSCAPE ARCHITECT FOR A FEE. THE DRAWING SHALL LOCATE ALL MAINLINE AND VALVES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES.

10) ALL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES.

11) ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS.

12) ALL RISERS SHALL BE INSTALLED 12" FROM ANY WALL AND A MINIMUM OF 36" FROM ANY SIDEWALK, PATIO OR ROAD.

13) THE EXACT HEIGHT OF ANY 12" POP-UP THAT IS SHOWN IN A SHRUB BED SHALL BE DETERMINED BY THE LANDSCAPE ARCHITECT IN THE FIELD.

14) THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIRS AND COST OF ANY DAMAGE CAUSED BY HIS WORK.

15) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP.

16) CONTRACTOR TO USE MIN. OF 12 GAUGE WIRE FOR ALL COMMON WIRES AND 14 GAUGE WIRE FOR ALL CONTROL WIRES. CONTRACTOR ALSO TO PROVIDE 3 SPARE CONTROL WIRES FOR ANY FUTURE USE.

17) CONCRETE THRUST BLOCKS ARE TO BE UTILIZED AT ALL MAINLINE DIRECTION CHANGES.

18) ALL IRRIGATION SHOWN ON PLANS IS SCHEMATIC AND DOES NOT REFLECT ALL FITTINGS AND APPURTENANCES WHICH SHALL BE INCLUDED TO PROVIDE A FULLY FUNCTIONAL IRRIGATION SYSTEM CAPABLE OF PROVIDING 100 PERCENT COVERAGE WITH A 50 PERCENT OVERLAP.

EQUIPMENT LIST

SYMBOL	DESCRIPTION	QUANTITY
◉	0.50 GPM BUBBLER (2 PER TREE)	36
○	6" POP-UP SPRAY - HUNTER INDUSTRIES MPR40 W/MP2000 NOZZELS	80
●	12" POP-UP SPRAY - HUNTER INDUSTRIES MPR40 W/MP2000 NOZZELS	78
◔	SPRAY ON RISER - HUNTER INDUSTRIES INST-00-CV-MP2000	102
◕	HUNTER 'ICV' SERIES ELECTRIC VALVE WITH ACCU-SET PRESSURE REGULATOR 1"	6
◕	HUNTER 'ICV' SERIES ELECTRIC VALVE WITH ACCU-SET PRESSURE REGULATOR 1 1/2"	0
Ⓒ	HUNTER ICC2 8 STATION CONTROLLER, 120VOLT INSTALL WITH A RAIN SENSOR: SOLAR SYNC (WITH EVAPOTRANSPIRATION SENSOR AND RAIN SENSOR AND BY-PASS BOX.) GROUND WITH AN 8' COPPER CLAD ROD.	1
▩	1" POTABLE IRRIGATION METER TO PROVIDE 30 GPM AT 40 PSI	1
⋈	1" DOUBLE CHECK VALVE BACKFLOW PREVENTOR	1
——	LATERAL LINE SIZE PER PLAN	SEE PLAN
——	1-1/2" MAINLINE CLASS 200 P.V.C. SIZE PER PLAN	SEE PLAN
▭	SLEEVING - SCH. 40 P.V.C. MIN. DEPTH OF 24" (ALL 3" SLEEVES TO HAVE ACCOMPANYING 2" SLEEVE FOR WIRES)	SEE PLAN

Zone Chart			
Zone#	GPM	Water Use	Program
1	20	Shrubs	A
2	20	Shrubs	A
3	20	Shrubs	A
4	13	Sod	B
5	13	Sod	B
6	18	Bubblers	C

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NO DATE REMARKS
REVISIONS

MILLER'S ALE·HOUSE

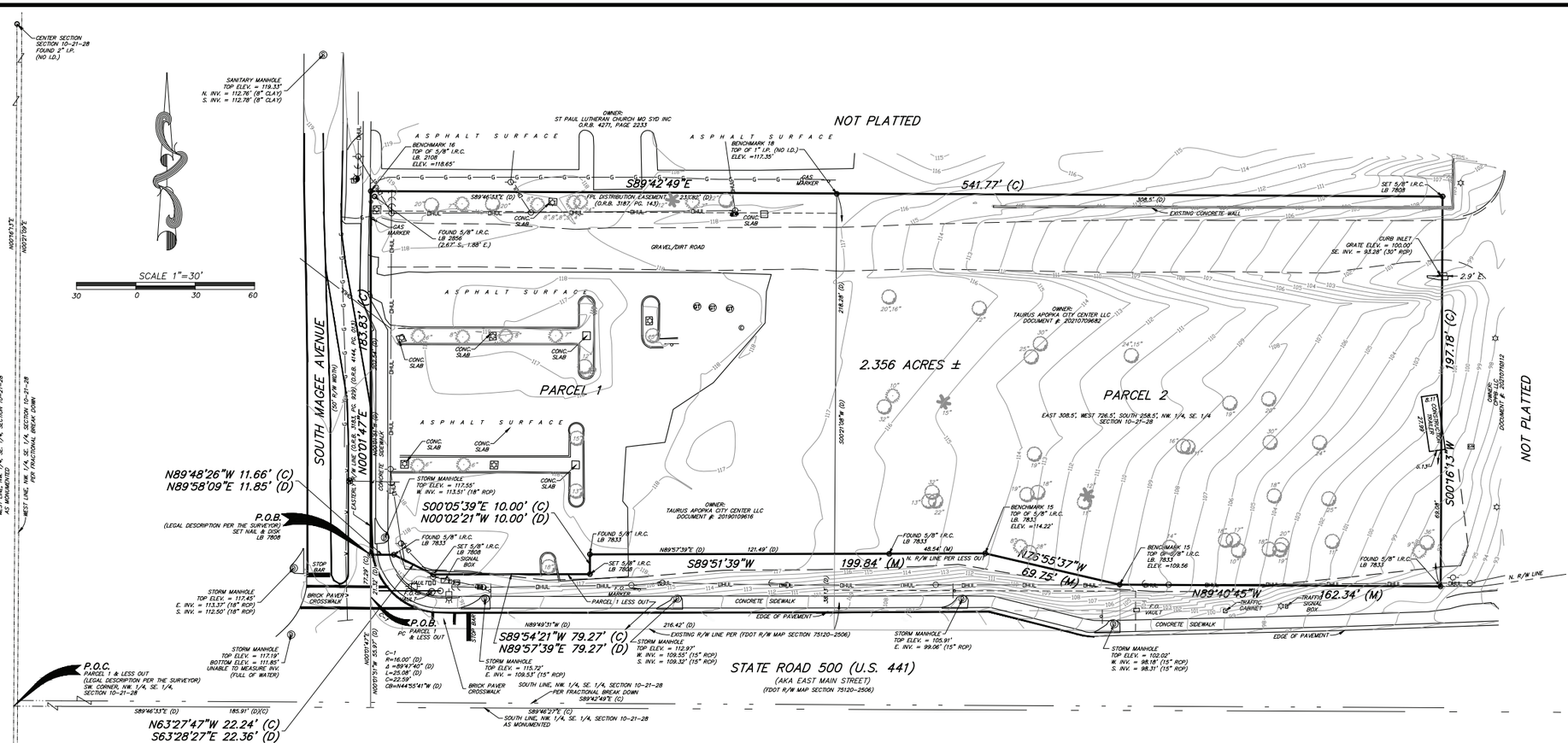
MILLER'S ALE HOUSE
323 SOUTH MCGEE AVENUE
APOPKA
FLORIDA

PROJECT NO: 2023.0320
DATE: 2023-08-09

L-5
IRRIGATION DETAILS

CHECKED: JB DRAWN: JB

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SURVEYOR'S NOTES:

(1) THIS MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY IS NOT VALID UNLESS IT BEARS THE SIGNATURE AND SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER IDENTIFIED BELOW.

(2) ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AND ARE BASED ON THE FOLLOWING BENCHMARKS:
NATIONAL GEODETIC SURVEY BENCHMARK DESIGNATION GPS 29, ELEVATION 144.04' (NAVD 88)
NATIONAL GEODETIC SURVEY BENCHMARK DESIGNATION E 79, ELEVATION 139.60' (NAVD 88)

(3) BEARINGS SHOWN HEREON ARE ASSUMED RELATIVE TO THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST, BEING SOUTH 89°46'27" EAST.

(4) THE 'LEGAL DESCRIPTION' HEREON IS IN ACCORD WITH THE DESCRIPTION FURNISHED BY THE CLIENT.

(5) UNLESS OTHERWISE NOTED OR SHOWN HEREON, APPARENT AND/OR UNOBSTRUCTED, ABOVE GROUND IMPROVEMENTS WERE LOCATED. UNDERGROUND IMPROVEMENTS, SUCH AS FOUNDATIONS AND UTILITIES, WERE NOT LOCATED.

(6) THE LANDS SHOWN HEREON LIE IN ZONE "X", DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 12095C0140F, MAP REVISED: SEPTEMBER 25, 2009 AND COMMUNITY PANEL NO. 12095C0120H, MAP REVISED: SEPTEMBER 24, 2021.

(7) THE DELINEATION OF LANDS SHOWN HEREON IS AS PER THE CLIENT'S INSTRUCTIONS.

(8) THE CLASSIFICATION USE OF THE LAND, PURSUANT TO THE STANDARDS OF PRACTICE SET FORTH IN RULE CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE, FLORIDA STATUTES 472.027, IS COMMERCIAL/HIGH RISK. THE MINIMUM RELATIVE DISTANCE ACCURACY OF THIS MAP OF BOUNDARY SURVEY ACHIEVES OR EXCEEDS ONE FOOT IN 10,000 FEET.

(9) THE VERTICAL CONTROL ESTABLISHED FOR THIS SURVEY IS BASED ON A CLOSED LEVEL LOOP, HAVING A CLOSURE ACCURACY WHICH MEETS OR EXCEEDS THAT REQUIRED BY THE STANDARDS OF PRACTICE SET FORTH IN RULE CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, FLORIDA STATUTES 472.027.

(10) UNLESS OTHERWISE NOTED OR SHOWN HEREON, THERE ARE NO APPARENT AND/OR UNOBSTRUCTED, ABOVE GROUND ENCROACHMENTS. THE DISPOSITION OF ANY POTENTIAL ENCROACHING IMPROVEMENTS SHOWN IS BEYOND PROFESSIONAL PURVIEW AND SUBJECT TO LEGAL INTERPRETATION.

(11) NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

(12) NO INFORMATION WAS MADE AVAILABLE TO THE SURVEYOR OF PROPOSED CHANGES IN STREET RIGHT-OF-WAY LINES. NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

(13) PARCEL 1 OF THE LEGAL DESCRIPTION AND PARCEL 2 OF THE LEGAL DESCRIPTION ARE CONTIGUOUS TO EACH OTHER ALONG THE EAST BOUNDARY LINE OF PARCEL 1 AND WEST BOUNDARY LINE OF PARCEL 2 AND, TAKEN AS A TRACT, CONSTITUTE ONE PARCEL OF LAND.

(14) WE HAVE EXAMINED THE FURNISHED COMMITMENT TO INSURE TITLE, COMMITMENT NO. 1362962A2, PREPARED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, EFFECTIVE DATE: MAY 12, 2023. THOSE INSTRUMENTS INCLUDED IN "SCHEDULE B, SECTION 2" OF THE COMMITMENT HAVE BEEN EXAMINED AND ARE REFLECTED HEREON TO THE EXTENT THEY AFFECT THE LANDS SURVEYED.

ITEM 6. Easement in favor of the City of Apopka, Florida recorded in O.R. Book 2973, Page 1194, Public Records of Orange County, Florida. (As to Parcel 2)
IS NOT SHOWN HEREON AND DOES NOT AFFECT THE SUBJECT PROPERTY. FALLS IN THE RIGHT-OF-WAY

ITEM 7. Easement in favor of the City of Apopka, Florida recorded in O.R. Book 2973, Page 1195, Public Records of Orange County, Florida. (As to Parcel 1)
IS NOT SHOWN HEREON AND DOES NOT AFFECT THE SUBJECT PROPERTY. FALLS IN THE RIGHT-OF-WAY

ITEM 8. Distribution Easement in favor of Florida Power Corporation recorded in O.R. Book 3187, Page 143, Public Records of Orange County, Florida. (As to Parcel 1)
IS SHOWN HEREON AND DOES AFFECT PARCEL 1.

ITEM 9. Subject to automatic phosphate, metals, minerals and petroleum reservations by virtue of Sec. 270.11(1), F.S., under deed recorded in Instrument Number 20190109616, Public Records of Orange County, Florida. (As to Parcel 1)
IS BLANKET IN NATURE AND DOES AFFECT THE SUBJECT PROPERTY.

ITEM 10. Landscape and Fountain Maintenance Agreement recorded in Instrument Number 20210306079, Public Records of Orange County, Florida. (As to Parcels 1 and 2)
IS BLANKET IN NATURE AND DOES AFFECT THE SUBJECT PROPERTY.

ITEM 11. Amended and Restated Development Agreement recorded in Instrument Number 20210306092, Public Records of Orange County, Florida. (As to Parcels 1 and 2)
IS BLANKET IN NATURE AND DOES AFFECT THE SUBJECT PROPERTY.

ITEM 12. Work, Easements, Maintenance and Cost Sharing, and Restrictive Covenants Agreement recorded in Instrument Number 20210710113, Public Records of Orange County, Florida, which contain provisions creating easements. (As to Parcels 1 and 2)
IS BLANKET IN NATURE AND DOES AFFECT THE SUBJECT PROPERTY.

LEGEND

..... STORM MANHOLE		R	RADIUS
..... TRAFFIC SIGN		Δ	CENTRAL ANGLE
..... POLE		L	ARC LENGTH
..... GUY ANCHOR		C	CHORD LENGTH
..... LIGHT POLE		CB	CHORD BEARING
..... TELEPHONE BOX		(D)	DEED
..... WATER VALVE		INV.	INVERT
..... CLEAN OUT		RCP	REINFORCED CONCRETE PIPE
..... GREASE TRAP		I.R.C.	IRON REBAR WITH CAP
..... SIGNAL MAST ARM		ELEV.	ELEVATION
..... DIRECTIONAL ARROW		F.O.	FIBER OPTIC
..... CROSS WALK SIGNAL		LB	LICENSED BUSINESS
..... GUY POLE		(C)	CALCULATED, BASED ON FIELD MEASUREMENTS
..... ELECTRIC METER		(M)	MEASURED INFORMATION
..... BOLLARD		O.R.B.	OFFICIAL RECORDS BOOK
..... SANITARY MANHOLE		PG.	PAGE
..... OAK TREE		P.C.	POINT OF CURVATURE
..... PALM TREE		P.O.B.	POINT OF BEGINNING
..... UNIDENTIFIED TREE		P.O.C.	POINT OF COMMENCEMENT

——OHUL—— OVERHEAD UTILITY LINE
——G——G—— UNDERGROUND GAS MAIN
——S——S—— UNDERGROUND SANITARY PIPE
——W——W—— UNDERGROUND WATER MAIN

LEGAL DESCRIPTION: (PER OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, EFFECTIVE DATE: MAY 12, 2023)

PARCEL 1:

COMMENCE AT THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST; THENCE RUN S89°46'33"E ALONG THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SAID SECTION 10 A DISTANCE OF 185.91 FEET TO A POINT ON THE SOUTHERLY PROJECTION OF THE EXISTING EAST RIGHT OF WAY LINE OF SOUTH MCGEE AVENUE, A FIFTY FOOT WIDE RIGHT OF WAY PER OFFICIAL RECORDS BOOK 3183, PAGE 929 AND OFFICIAL RECORDS BOOK 4144, PAGE 0013, ALL OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE DEPARTING SAID SOUTH LINE RUN N00°01'51"W ALONG SAID SOUTHERLY PROJECTION A DISTANCE OF 55.97 FEET TO A POINT ON SAID EXISTING EAST RIGHT OF WAY LINE FOR A POINT OF BEGINNING; THENCE DEPARTING SAID EASTERLY PROJECTION RUN N00°01'51"W ALONG SAID EXISTING EAST RIGHT OF WAY LINE A DISTANCE OF 202.54 FEET; THENCE DEPARTING SAID EXISTING EAST RIGHT OF WAY LINE RUN S89°46'33"E A DISTANCE OF 233.82 FEET; THENCE RUN S00°21'59"W A DISTANCE OF 218.28 FEET TO A POINT ON THE EXISTING NORTH RIGHT OF WAY LINE OF STATE ROAD NO. 500 (U.S. 441), ALSO KNOWN AS EAST MAIN STREET, AS SHOWN ON FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP SECTION 75120-2506; THENCE RUN N89°49'31"W ALONG SAID EXISTING NORTH RIGHT OF WAY LINE A DISTANCE OF 216.42 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 16.00 FEET AND A CHORD BEARING N44°55'41"W; THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE AND SAID EXISTING NORTH RIGHT OF WAY LINE THROUGH A CENTRAL ANGLE 89°47'40" A DISTANCE OF 25.08 FEET TO THE POINT OF BEGINNING.

LESS THE FOLLOWING ADDITIONAL RIGHT OF WAY FOR STATE ROAD NO. 500 (U.S. 441):

COMMENCE AT THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST; THENCE RUN S89°46'33"E ALONG THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SAID SECTION 10 A DISTANCE OF 185.91 FEET TO A POINT ON THE SOUTHERLY PROJECTION OF THE EXISTING EAST RIGHT OF WAY LINE OF SOUTH MCGEE AVENUE, A FIFTY FOOT WIDE RIGHT OF WAY PER OFFICIAL RECORDS BOOK 3183, PAGE 929 AND OFFICIAL RECORDS BOOK 4144, PAGE 0013, ALL OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE DEPARTING SAID SOUTH LINE RUN N00°01'51"W ALONG SAID SOUTHERLY PROJECTION A DISTANCE OF 55.97 FEET TO A POINT ON SAID EXISTING EAST RIGHT OF WAY LINE FOR A POINT OF BEGINNING; THENCE DEPARTING SAID EASTERLY PROJECTION RUN N00°01'51"W ALONG SAID EXISTING EAST RIGHT OF WAY LINE A DISTANCE OF 21.33 FEET; THENCE DEPARTING SAID EXISTING EAST RIGHT OF WAY LINE RUN N89°58'09"E, A DISTANCE OF 11.85 FEET; THENCE RUN S63°28'27"E, A DISTANCE OF 22.36 FEET; THENCE RUN N89°57'39"E, A DISTANCE OF 79.27 FEET; THENCE RUN N00°02'21"W, A DISTANCE OF 10.00 FEET; THENCE RUN N89°57'39"E, A DISTANCE OF 121.49 FEET; THENCE RUN S00°21'08"W A DISTANCE OF 38.13 FEET TO A POINT ON THE EXISTING NORTH RIGHT OF WAY LINE OF STATE ROAD NO. 500 (U.S. 441), ALSO KNOWN AS EAST MAIN STREET, AS SHOWN ON FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP SECTION 75120-2506; THENCE RUN N89°49'31"W ALONG SAID EXISTING NORTH RIGHT OF WAY LINE A DISTANCE OF 216.42 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 16.00 FEET AND A CHORD BEARING N44°55'41"W; THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE AND SAID EXISTING NORTH RIGHT OF WAY LINE THROUGH A CENTRAL ANGLE 89°47'40" A DISTANCE OF 25.08 FEET TO THE POINT OF BEGINNING.

PARCEL 2:

THE EAST 308.5 FEET OF THE WEST 726.5 FEET OF THE SOUTH 258.5 FEET OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 (LESS ROAD ON SOUTH) IN SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA. ALSO LESS AND EXCEPT THOSE PORTIONS DESCRIBED IN ORDER OF TAKING RECORDED IN O.R. BOOK 5543, PAGE 3037 AND DEED RECORDED IN INSTRUMENT NUMBER 20190016150, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

LEGAL DESCRIPTION: (PER THE SURVEYOR)

PARCEL 1 AND PARCEL 2 ALSO BEING DESCRIBED AS:

A TRACT OF LAND, LYING IN THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST, BEING THOSE LANDS DESCRIBED IN DOCUMENT # 20190109616 AND DOCUMENT # 20210709682, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; BEING DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST; THENCE RUN SOUTH 89°46'33" EAST ALONG THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 10, A DISTANCE OF 185.91 FEET TO A POINT ON THE SOUTHERLY PROJECTION OF THE EXISTING EAST RIGHT-OF-WAY LINE OF SOUTH MCGEE AVENUE, A FIFTY FOOT WIDE RIGHT-OF-WAY PER OFFICIAL RECORDS BOOK 3183, PAGE 929 AND OFFICIAL RECORDS BOOK 4144, PAGE 0013, ALL OF THE SAID PUBLIC RECORDS; THENCE DEPARTING SAID SOUTH LINE, RUN NORTH 00°01'47" EAST ALONG SAID SOUTHERLY PROJECTION, 77.29 FEET TO A POINT ON SAID EXISTING EAST RIGHT-OF-WAY LINE AND THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD 500 (U.S. 441) FOR A POINT OF BEGINNING; THENCE DEPARTING SAID EASTERLY PROJECTION, RUN NORTH 00°01'47" EAST ALONG SAID EXISTING EAST RIGHT OF WAY LINE, 183.83 FEET; THENCE DEPARTING SAID EXISTING EAST RIGHT OF WAY LINE, RUN SOUTH 89°42'49" EAST, ALONG THE SOUTH LINE OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 4277, PAGE 2233 OF SAID PUBLIC RECORDS, 541.77 FEET TO THE WEST LINE OF THOSE LANDS DESCRIBED IN DOCUMENT # 20210710112, OF SAID PUBLIC RECORDS; THENCE RUN SOUTH 00°16'13" WEST, 197.18 FEET TO A POINT ON THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD NO. 500 (U.S. 441), ALSO KNOWN AS EAST MAIN STREET, THENCE RUN ALONG SAID NORTH RIGHT OF WAY LINE THE FOLLOWING SEVEN (7) COURSES: (1) NORTH 89°40'45" WEST, 162.34 FEET; (2) NORTH 76°55'37" WEST, 69.75 FEET; (3) SOUTH 89°51'39" WEST, 199.84 FEET; (4) SOUTH 00°05'39" EAST, 10.00 FEET; (5) SOUTH 89°54'21" WEST, 79.27; (6) NORTH 63°27'47" WEST, 22.24 FEET; (7) NORTH 89°48'26" WEST, 11.66 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED TRACT LIES IN THE CITY OF APOPKA, FLORIDA AND CONTAINS 2.356 ACRES MORE OR LESS.

Digitally signed by David A White
Date: 2023.07.31 16:10:53 -04'00'

ALTA/NSPS CERTIFICATION: (2022)
TO: MJW ENTERPRISES, LLC.; TAURUS APOPKA CITY CENTER, LLC.; MILLER'S ALE HOUSE, INC.; KEATING & SCHLITT, P.A.; FORTRESS BANK; OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2022 "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS", JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 8, 13, 14, 16, 17 AND 19 OF TABLE A THEREOF.

ALTA/NSPS LAND TITLE SURVEY

DATE	BY	REVISIONS
07-25-2023	R.J.G.	ADDED CURB INLET INFORMATION
07-11-2023	R.J.G.	ADDRESS COMMENTS
07-06-2023	R.J.G.	ADDRESS COMMENTS
06-30-2023	R.J.G.	ADD ADDITIONAL TOPO AND NEW TITLE

PEC | SURVEYING AND MAPPING, LLC
CERTIFICATE OF AUTHORIZATION NUMBER LB 7808
2100 Alafaya Trail, Suite 203 • Oviedo, Florida 32765 • 407-542-4967
WWW.PECONLINE.COM dw@peconline.com

MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY
LOCATED IN
SECTION 10, TOWNSHIP 21 SOUTH, RANGE 28 EAST
CITY OF APOPKA, ORANGE COUNTY, FLORIDA

SHEET 1 OF 1

JOB NO.:	23-066
DATE:	6-14-2023
DRAWN BY:	J.L.M.
CHECKED BY:	D.A.W
F.B.	2482/2846
PAGE(S)	3-31/40-41

J:\23-066 Lightsey Wisdom Development\23-066 ALTA-CSD.dwg Jul 31, 2023 - 10:20am

mytsmi - 08/10/2023 2:45:31 PM

POULOS & BENNETT

Orlando Office
2602 E. Livingston Street
Orlando, Florida 32803

(407) 487-2594
poulosandbennett.com

Jacksonville Office
7563 Philips Hwy., Suite 303
Jacksonville, Florida 32256

August 11, 2023
Via Courier delivery before 3:00 p.m.

City of Apopka Planning Department
120 East Main Street
Apopka, FL 32703

Subject: Crossroads at Kelly Park Phase 1-2, 1-3 & 2 Master Infrastructure and Construction Site Plans
Revision Request to Previously Approved Plans
Poulos & Bennett Job No. 21-027B

We previously received Stamped Approved Plans for the above project. At this time, we are submitting a plan revision to include portions of the Crossroads at Kelly Park Phase 3 project area within the limits of the proposed mass grading authorized within this construction site plan. This request, to include portion of the Phase 3 mass grading within this construction site plan, was previously discussed and agreed upon at the DRC meeting of May 10, 2023.

In addition, minor plan revisions have been incorporated into the plan set for consistency with the Phase 1A and the Phase 1B engineering plans which were prepared post approval to this referenced project. All plan revisions have been clouded and noted with a delta for ease of identification.

We provide the following items for review:

- $1,000.00 Revision Review Fee Check (Poulos & Bennett check);
- Original and PDF on CD: Construction Site Plan Revision Application (with 3 owners' signatures);
- 2 sets and PDF on CD: Crossroads at Kelly Park Phase 1-2, 1-3 & 2 Master Infrastructure and Mass Grading Construction Site Plans (**24"x36"**), revised August 7, 2023, digital and hard seal, INCLUDING - Survey, prepared by PEC Surveying and Mapping, digital and hard seal; Landscape Plans, prepared by Bonnett Design, digital and hard sealed; Lighting/Photometric Plan, prepared by Matern, signed and sealed;
- 1 set and PDF on CD: **11"x17"** of the Construction Plans (including consultants' plans);
- CD with PDFs of the above items.

Please do not hesitate to contact me should you have any questions or should you require any additional information at (407) 487-2594 or mstehli@poulosandbennett.com.

Sincerely,

Marc D. Stehli, PE
Poulos & Bennett, LLC

c: Mike Galvin
Seth Bennett
Steven Thorp
Brett LaRue – Bonnett
Lance Bennett

Construction Site Plans
for
Crossroads at Kelly Park
Phase 1 - 2, 1 - 3 & 2 Master Infrastructure and Mass Grading
City of Apopka, FL

Legal Description:

A TRACT OF LAND, LYING IN SECTION 11, TOWNSHIP 20 SOUTH, RANGE 27 EAST, BEING DESCRIBED AS FOLLOWS:

COMMENCE AT NORTH QUARTER CORNER OF SAID SECTION 11, FOR A POINT OF REFERENCE; THENCE RUN SOUTH 00°17'05" EAST, ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 11, A DISTANCE OF 30.00 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF ONDICH ROAD, ALSO BEING THE POINT OF BEGINNING; THENCE DEPARTING SAID WEST LINE, RUN NORTH 89°08'52" EAST, ALONG THE SOUTHERLY RIGHT-OF-WAY LINE, 1328.91 FEET TO THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 11, THENCE RUN SOUTH 00°22'34" EAST, ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 11, A DISTANCE OF 1960.23 FEET TO THE NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 11; THENCE RUN NORTH 89°24'56" EAST, ALONG THE NORTH LINE OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 11, A DISTANCE OF 742.90 FEET; THENCE DEPARTING SAID NORTH LINE, RUN SOUTH 00°28'01" EAST, 664.56 FEET; THENCE RUN SOUTH 00°27'50" EAST, 339.33 FEET TO THE NORTHEAST CORNER OF THE PROPOSED PLAT OF KELLY PARK MULTI-FAMILY PHASE 1; THENCE RUN ALONG THE NORTHERLY AND WESTERLY LINES OF SAID PROPOSED PLAT OF KELLY PARK MULTI-FAMILY PHASE 1, THE FOLLOWING NINE (9) COURSES; THENCE RUN SOUTH 89°32'10" WEST, 139.06 FEET; THENCE RUN NORTH 00°28'01" WEST, 10.59 FEET; THENCE RUN SOUTH 89°31'59" WEST, 296.99 FEET TO THE POINT OF CURVATURE OF CURVE CONCAVE SOUTHEASTERLY; THENCE RUN SOUTHWESTERLY, ALONG SAID CURVE, HAVING A RADIUS OF 470.50 FEET, A CENTRAL ANGLE OF 10°06'03", AN ARC LENGTH OF 82.95 FEET, A CHORD LENGTH OF 82.84 FEET AND A CHORD BEARING OF SOUTH 84°28'58" WEST TO THE POINT OF TANGENCY; THENCE RUN SOUTH 79°25'56" WEST, 76.26 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE NORTHWESTERLY; THENCE RUN SOUTHWESTERLY, ALONG SAID CURVE, HAVING A RADIUS OF 529.50 FEET, A CENTRAL ANGLE OF 09°49'36", AN ARC LENGTH OF 90.81 FEET, A CHORD LENGTH OF 90.70 FEET AND A CHORD BEARING OF SOUTH 84°20'44" WEST TO THE POINT OF TANGENCY; THENCE RUN SOUTH 89°15'33" WEST, 380.87 FEET TO THE POINT OF CURVATURE OF CURVE CONCAVE SOUTHEASTERLY; THENCE RUN SOUTHWESTERLY, ALONG SAID CURVE, HAVING A RADIUS OF 25.00 FEET, A CENTRAL ANGLE OF 90°00'00", AN ARC LENGTH OF 39.27 FEET, A CHORD LENGTH OF 35.36 FEET AND A CHORD BEARING OF SOUTH 44°15'33" WEST TO THE POINT OF TANGENCY; THENCE RUN SOUTH 00°44'27" EAST, 110.00 FEET TO A POINT LYING ON THE NORTH LINE OF LOT 1, OCB ACRES, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 53, PAGE 82 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE RUN SOUTH 89°15'33" WEST, ALONG SAID NORTH LINE, 989.37 FEET TO A POINT LYING ON THE WEST LINE OF THE SOUTHEAST QUARTER OF AFORESAID SECTION 11; THENCE RUN NORTH 00°17'05" WEST, ALONG SAID WEST LINE, 498.24 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST QUARTER OF SAID SECTION 11; THENCE RUN SOUTH 89°30'17" WEST, ALONG THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 11, A DISTANCE OF 1330.44 FEET TO THE SOUTHWEST CORNER OF THE EAST HALF OF THE NORTHWEST QUARTER OF SAID SECTION 11; THENCE RUN NORTH 00°07'41" WEST, ALONG THE WEST LINE OF THE EAST HALF OF THE NORTHWEST QUARTER OF SAID SECTION 11, A DISTANCE OF 2239.19 FEET TO A POINT OF A NON-TANGENT CURVE CONCAVE NORTHWESTERLY; SAID POINT ALSO LIES ON AFORESAID SOUTHERLY RIGHT-OF-WAY LINE OF ONDICH ROAD; THENCE RUN ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE, THE FOLLOWING FOUR (4) COURSES; THENCE RUN NORTHEASTERLY, ALONG SAID NON-TANGENT CURVE, HAVING A RADIUS OF 603.70 FEET, A CENTRAL ANGLE OF 44°59'57", AN ARC LENGTH OF 474.14 FEET, A CHORD LENGTH OF 462.05 FEET AND A CHORD BEARING OF NORTH 67°23'06" EAST TO THE POINT OF TANGENCY; THENCE RUN NORTH 44°53'07" EAST, 69.20 FEET TO THE POINT OF CURVATURE OF CURVE CONCAVE SOUTHEASTERLY; THENCE RUN NORTHEASTERLY, ALONG SAID CURVE, HAVING A RADIUS OF 543.70 FEET, A CENTRAL ANGLE OF 45°00'00", AN ARC LENGTH OF 427.02 FEET, A CHORD LENGTH OF 416.13 FEET AND A CHORD BEARING OF NORTH 67°23'07" EAST TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED TRACT OF LAND LIES IN ORANGE COUNTY, FLORIDA AND CONTAINS 187.158 ACRES MORE OR LESS.

Utility Providers

Electric:
Duke Energy
452 E. Crown Point Rd.
Winter Garden FL 34787
407.629.1010

Telephone:
AT&T
1227 S. Division Ave
Orlando, FL 34805
407.351.7100

Water, Sewer and Reuse:
City of Apopka
748 E. Cleveland St
Apopka, FL 3270
407.703.1731

CATV:
Spectrum Network
100 Gordon St.
Sanford, FL 3277
321.805.3081

Gas:
Lake Apopka Natural Gas
38 N. Park Avenue
Apopka, FL 32703
407.656.2734

Solid Waste, Fire and Police Protection:
City of Apopka
748 E. Cleveland St
Apopka, FL 3270
407.703.1731

Consultants

Civil Engineer:
Poulos & Bennett, LLC
2602 E. Livingston St.
Orlando, FL 32803
407.487.2594
Marc Stehli, P.E.

Surveyor:
PEC Surveying and Mapping, LLC
2602 E. Livingston St.
Oviedo, FL 32765
401.542.4967
David White, PLS

Environmental:
Bio-Tech Consulting Inc.
3025 East South Street
Orlando, FL 32803
407.894.5969
David Goagh

Geotechnical Engineer:
Universal Engineering Sciences
3532 Maggie Boulevard
Orlando, FL 32811
407.423.0504
Andy Wilderotter, P.E.

Landscape Architect:
Bonnett Design Group, LLC
400 s Orlando Ave Suite 201
Maitland, FL 32751
407.622.1588
Todd Bonnett, RLA

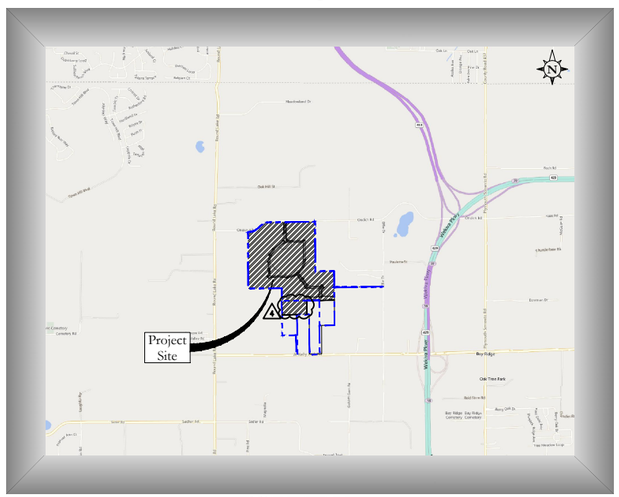
Transportation:
TMC Traffic & Mobility Consultants
3101 Maguire Boulevard, Suite 265
Orlando, FL 32803
407.531.5332
Ayman As-Saidi, P.E.

Parcel Id. No.:
11-20-27-0000-00-003
11-20-27-0000-00-013
11-20-27-0000-00-036
11-20-27-0000-00-070
△1 11-20-27-0000-00-054
11-20-27-6135-00-010

Owner/Applicant:
DFC Kelly Park, LLC
13000 Sawgrass Village Circle
Bldg 5, Ste. 24
Ponte Vedra, FL 32082

Kelly Park Land Investments, LLC
121 Snell Isle Blvd NE
St. Petersburg, FL 33704

Harriskp (50%) and Kelly Park Land Investments, LLC (50%)
121 Snell Isle Blvd NE
St. Petersburg, FL 33704



Vicinity Map
Scale: 1" = 3,000'

Sheet Index

Sheet Id.			Sheet Title	Subm./Rev. -	1	2	3	4	5	6	7
C0.00			Cover Sheet	■	■	■	■	■			
C0.01	-	C0.02	Construction Notes	■	■	■	■	■			
C0.03			Existing Conditions Plan	■	■	■	■	■			
C0.10			Wetland Impact Plan		■	■	■	■			
C1.00			Overall Master Plan	■	■	■	■	■			
C1.01			Site Data Tables	■		■	■	■			
C1.02			Overall Phasing Plan	■	■	■	■	■			
C1.10	-	C1.11	Erosion Control Plan & Details	■	■	■	■	■			
C2.00			Master Site Plan	■	■	■	■	■			
C2.01	-	C2.06	Signage, Striping, & Geometry Plan	■		■	■	■			
C3.00	-	C3.02	Typical Road Sections	■	■	■	■	■			
C3.10			Boring Location Map	■	■	■	■	■			
C3.11	-	C3.19 △1	Soil Borings	■	■	■	■	■			
C3.20			Clay Contour Map	■	■	■	■	■			
C3.21			Over Excavation Plan	■		■	■	■			
C4.00			Overall Mass Grading & Drainage Plan	■	■	■	■	■			
C4.01	-	C4.08 △1	Grading & Drainage Plan	■	■	■	■	■			
C4.20	-	C4.21	Grading Sections & Details	■	■	■	■	■			
C4.30	-	C4.31	Roundabout & Intersection Grading Details			■	■	■			
C5.00			Master Utility Plan	■		■	■	■			
C5.10	-	C5.15	Wastewater Collection Plan	■		■	■	■			
C5.20	-	C5.25	Water Distribution Plan	■		■	■	■			
C5.30	-	C5.35	Reclaimed Water Distribution Plan	■		■	■	■			
C6.00	-	C6.17	Plan & Profile	■		■	■	■			
C7.00	-	C7.01	Fire Protection Plan	■		■	■	■			
C9.10	-	C9.13	Apopka Construction Details	■		■	■	■			
C9.20	-	C9.22	Lift Station Details	■		■	■	■			
			Survey Drawings								
1	-	2	Map Of Boundary And Topographic Survey	■	■						
1	-	6	Map Of Boundary And Tree Survey	■	■			■			
			Landscape & Lighting Reference Drawings								
L000			Cover Sheet	■				■			
L100			Tree Mitigation Plan	■				■			
L200			Overall Layout Plan	■				■			
L201	-	L2.03	Layout Plan	■				■			
L301			Hardscape Details	■				■			
L302			Site Furnishing	■				■			
L400			Overall Landscape Plan	■				■			
L401	-	L407	Landscape Plan	■				■			
L410			Planting Schedules	■				■			
L411	-	L412	Landscape Details & Notes	■				■			
L500			Overall Irrigation Plan	■				■			
L501	-	L507	Irrigation Plan	■				■			
L510			Irrigation Legend, Details & Notes	■				■			
E100			Overall Lighting Plan	■				■			
E101	-	E109	Lighting Plan	■				■			
E301			Lighting Cutsheet	■				■			

	Date	Description
-	12/21/2022	SUBMIT TO CITY OF APOPKA & SJRWMD
1	3/2/2023	SUBMIT TO SJRWMD
2	3/31/2023	SUBMIT TO CITY OF APOPKA
3	4/19/2023	SUBMIT TO SJRWMD
4	8/7/2023	SUBMIT TO CITY OF APOPKA

PROJECT NARRATIVE
LOCATED IN THE KELLY PARK TRANSITION DISTRICT AND VILLAGE CENTER DISTRICT, THE CROSSROADS AT KELLY PARK PROJECT PROVIDES A MIXTURE OF USES INCLUDING DETACHED SINGLE FAMILY RESIDENTIAL AND MULTI-FAMILY RESIDENTIAL. THIS CONSTRUCTION SITE PLAN SUBMITTAL PROPOSES CONSTRUCTION OF THE PROJECTS MAIN SPINE ROAD AND ASSOCIATED UTILITIES AND DRAINAGE FACILITIES NECESSARY TO SUPPORT THE PROJECT DEVELOPMENT.

NOTE:
CONSTRUCTION PLANS WERE PREPARED IN ACCORDANCE WITH THE LATEST MANUAL OF UNIFORM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS, FDOT GREEN BOOK, AND CITY OF APOPKA REGULATIONS AND SPECIFICATIONS.

DANIEL STEHLI LICENSE NO. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER
Marc D Stehli
MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT
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P&B Job No.: 21-027

Construction Site Plans for Crossroads at Kelly Park Phase 1 - 2, 1 - 3 & 2 Master Infrastructure and Mass Grading

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-CS

GENERAL NOTES:

1. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN. PERMITS INCLUDED (BUT NOT NECESSARILY LIMITED TO) ARE:
   - WATER MANAGEMENT DISTRICT CONSUMPTIVE USE (WATER USE) FOR CONSTRUCTION DEWATERING (CUP)
   - WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT (ERP) OR MSSW
   - WATER MANAGEMENT DISTRICT WETLAND RESOURCE PERMIT
   - FDEP WATER DISTRIBUTION
   - FDEP SANITARY SEWER COLLECTION AND TRANSMISSION
   - FDEP REUSE
   - LOCAL RIGHT OF WAY USE
   - LOCAL UNDERGROUND UTILITIES
   - FDEP & EPA NPDES STORMWATER
   - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION TORTOISE INCIDENTAL TAKE
2. CONTRACTOR IS ADVISED THAT THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IN THE STATE OF FLORIDA THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IS THE PERMITTING AGENCY. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN SAME. A COPY SHALL BE SENT TO OWNER.
3. FLORIDA LAW (F.S. 556 - THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION." THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACKFILLING, DEMOLITION, GRADING, DITCHING, DRILLING, BORING AND CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS).
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROJECT SITE DURING CONSTRUCTION, TO PREVENT TRESPASSING OF UNAUTHORIZED PEDESTRIANS AND/OR VEHICLES IN ALL WORK AREAS. THE CONTRACTOR SHALL POST SIGNS, CONSTRUCT BARRIERS OR IMPLEMENT OTHER METHODS NECESSARY TO CONTROL ACCESS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR TRESPASSING ON THE CONSTRUCTION SITE OR DAMAGES TO ANY WORK RELATED THERETO.
5. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL OF FLORIDA, INC. PRIOR TO COMMENCEMENT OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS; INCLUDING BUT NOT LIMITED TO WATER, RECLAIMED WATER, SEWER, POWER, TELEPHONE, GAS AND CABLE TV COMPANIES.
6. PRIOR TO COMMENCEMENT, CONTRACTOR SHALL PROVIDE POULOS & BENNETT WITH CONSTRUCTION SCHEDULE FOR VARIOUS SITE WORK ELEMENTS SO THAT PERIODIC SITE VISITS MAY BE COORDINATED TO ENSURE TIMELY CERTIFICATION OF COMPLETION TO AGENCIES AND AVOID DELAYS IN ISSUANCE OF CERTIFICATES OF OCCUPANCY/COMPLETION.
7. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST STANDARDS OF ALL APPLICABLE AGENCIES.
8. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR FIELD LOCATIONS AND FOR ANY RELOCATIONS OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY FASHION TO MINIMIZE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY OR INCONVENIENCE CAUSED THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

   ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER AND OWNER.
9. AS PART OF THE CLEARING AND GRUBBING OPERATION, THE CONTRACTOR IS TO REMOVE ALL FENCING AND/OR EXISTING FACILITIES FROM THE SITE. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING SITE VISIT TO UNDERSTAND THE EXISTING CONDITIONS OF THE SITE. IF REMOVAL OF EXISTING FACILITIES IS NOT INCLUDED IN THE BASE BID, THEN IT SHALL BE SPECIFICALLY IDENTIFIED.
10. CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
11. IF AN EAGLE MANAGEMENT PLAN HAS BEEN FILED AND APPROVED BY FLORIDA GAME AND FRESHWATER FISH COMMISSION AND THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE. CONTRACTOR SHALL ABIDE BY THE PERMIT.
12. MAINTAIN MINIMUM 3' COVER OVER PROPOSED GRAVITY SANITARY, FORCE MAIN, WATER AND REUSE LINES, UNLESS OTHERWISE NOTED.
13. CONCRETE SIDEWALKS (AS SPECIFIED BY APPROPRIATE ROADWAY SECTION) ADJACENT TO ALL LOTS TO BE INSTALLED BY HOME BUILDER. SIDEWALKS ADJACENT TO PONDS, PARKS, AND OPEN SPACE, AS SHOWN ON PLANS, ARE TO BE CONSTRUCTED WITH INFRASTRUCTURE. ALL POND ACCESS TRACT SIDEWALK SHALL BE 6" MINIMUM.
14. DURING CONSTRUCTION, WHEN COMBUSTIBLES ARE BROUGHT ON TO THE SITE, ACCESS ROADS AND A SUITABLE TEMPORARY OR PERMANENT SUPPLY OF WATER ACCEPTABLE TO THE FIRE DEPARTMENT SHALL BE PROVIDED.
15. ALL RECOMMENDATIONS AND REQUIREMENTS OF INSPECTION PERSONNEL OTHER THAN OWNER'S SHALL BE REPORTED TO ENGINEER/OWNER/OWNERS REPRESENTATIVE PRIOR TO IMPLEMENTATION. COMPENSATION WILL NOT BE ALLOWED FOR WORK WHICH IS NOT AUTHORIZED BY ENGINEER/OWNER.
16. CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES WHICH ARE TO BE SAVED, WHETHER SHOWN IN THE PLANS OR DESIGNATED IN THE FIELD. CONTRACTOR SHALL BECOME FAMILIAR WITH AND CONFORM WITH ALL TREE PROTECTION/PRESERVATION PROVISIONS OF THE CONTRACT DOCUMENTS AND LOCAL GOVERNMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT AND MITIGATION COSTS FOR ANY TREES REMOVED THAT WERE DESIGNATED TO BE PRESERVED.
17. ALL WORK SHALL BE OPEN TO AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY, COUNTY, OWNER, INVOLVED UTILITY COMPANIES, PROJECT ENGINEER AND REGULATORY AGENCIES.
18. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING SHOP DRAWING AND MATERIALS ORDERING PHASE OF PROJECT AND ADVISE ENGINEER OF ANY DISCREPANCIES.
19. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS OR AS APPROVED BY ENGINEER/OWNER IN WRITING.
20. ALL FDOT DESIGN INDICES ARE HEREBY INCORPORATED AS PLAN REFERENCES HEREIN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COMPLETE COPIES OF ALL APPLICABLE INDEX DRAWINGS AND CONSTRUCTING ALL WORKS IN CONFORMANCE WITH THE FDOT ROADWAY AND TRAFFIC STANDARD PLANS, LATEST EDITION.
21. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL PRIOR TO THE INSTALLATION OF ANY IMPROVEMENT.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION. DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA-LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT CONTRACTOR'S SOLE EXPENSE.
23. IMMEDIATELY AT ONSET OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING WATER, REUSE, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV) AND SHALL EVALUATE POTENTIAL CONFLICTS. ALL SUCH CONFLICTS SHALL BE REPORTED TO ENGINEER/OWNER IMMEDIATELY UPON DISCOVERY.
24. CONTRACTOR SHALL INSTRUCT THE GEOTECHNICAL TESTING LABORATORY PROVIDING CONSTRUCTION TESTING TO PROVIDE POULOS & BENNETT WITH COPIES OF ALL SITE-WORK TEST REPORTS AS THEY ARE GENERATED. CONTRACTOR SHALL MAINTAIN THE RESPONSIBILITY OF CONSTRUCTING THE PROJECT IN STRICT ACCORDANCE WITH THE PROJECT PLANS, SPECIFICATIONS AND REQUIREMENTS. RECEIPT OF COPIES OF GEOTECHNICAL REPORTS BY POULOS & BENNETT IN NO WAY OBLIGATES POULOS & BENNETT TO ANY REVIEW, COMMENTS OR ACTIONS REGARDING THE WORK.
25. DEWATERING IS ANTICIPATED FOR THIS PROJECT. THEREFORE, THE DISCHARGE OF GROUNDWATER FROM DEWATERING OPERATIONS REQUIRES APPROVAL FROM CITY OF APOPKA, FDEP AND THE APPLICABLE WATER MANAGEMENT DISTRICT. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
26. WORK SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT THROUGH THE U.S. DEPARTMENT OF LABOR AND THE FLORIDA TRENCH SAFETY ACT.
27. ALL PERSONAL PROPERTY, EXCEPT MAIL BOXES, WITHIN THE RIGHT-OF-WAY THAT IS NOT RELOCATED BY THE PROPERTY OWNER SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. MAIL BOXES SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT DESIGN STANDARD 532.
28. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND PROTECT EXISTING FACILITIES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH UTILITY OWNERS AND ENGINEER SHOULD SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS.
29. CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO STARTING CONSTRUCTION.
30. SHOULD AGGRESSIVE SOILS BE ENCOUNTERED CONTRACTOR SHALL NOTIFY ENGINEER FOR REMEDIAL ACTION.
31. IMPACTS TO OFFSITE ROADWAYS, IF ANY, WILL NEED TO BE REPAIRED IN ACCORDANCE WITH CITY/COUNTY REQUIREMENTS. IF REQUIRED, CONTRACTOR SHALL OBTAIN SURETY BOND.
32. NO EQUIPMENT EXTENDING HIGHER THAN 15 FT. ABOVE EXISTING GRADE SHALL BE USED WITHIN POWER EASEMENTS.
33. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
34. ANY WELLS SHOWN HEREON ARE THE WELLS LOCATED TO DATE AND DO NOT NECESSARILY REPRESENT ALL WELLS ON THE PROPERTY. THE ENGINEER SHALL BE NOTIFIED OF ANY WELLS ENCOUNTERED DURING CONSTRUCTION. ALL WELLS NOT DESIGNATED TO REMAIN OR FUNCTION SHALL BE PROPERLY SEALED AND ABANDONDED PER APPLICABLE AGENCY REQUIREMENTS.
35. VIBRATORY COMPACTION METHODS SHALL NOT BE USED WITHIN ANY EXISTING GAS EASEMENTS.
36. ALL LIGHT POLES AND STRUCTURES TO BE LOCATED IN THE FIELD BY SURVEYOR RETAINED BY CONTRACTOR.
37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ANY TRAFFIC EQUIPMENT, INCLUDING BUT NOT LIMITED TO, FIBER, LOOP SENSORS, PULL BOXES, CONDUIT, TRAFFIC SIGNALS AND CABINETS. ANY ITEMS DAMAGED BY THE CONTRACTOR WILL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE AGREED UPON BY THE STATE AND/OR LOCAL ENGINEER.
38. ALL EXCAVATED AREAS TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEWLY SEEDED/SODDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL. HOLD SOIL DOWN 1" FROM PAVEMENT ELEVATION. CONTRACTOR TO SUPPLY STRAW MULCH WHERE GRASS SEED HAS BEEN PLANTED.
39. ALL EXISTING EASEMENTS, RIGHTS-OF-WAY, AND LOT LINES MAY NOT BE SHOWN. REFER TO THE ALTA/NSPS LAND TITLE SURVEY, BOUNDARY SURVEY OR TITLE WORK FOR ASSOCIATED ENCUMBRANCES.
40. SURROUNDING DEVELOPMENT AND ELEVATIONS WERE DETERMINED FROM DESIGN DRAWINGS AS LISTED IN THE SURVEYOR SECTION. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DIFFERENT.
41. SIGHT LINES SHOWN ON THE PLANS SHALL BE MAINTAINED WITHIN THE TRIANGLES BOTH HORIZONTALLY AND VERTICALLY FROM 30 INCHES TO EIGHT FEET IN HEIGHT. ALL VERTICAL SITE IMPROVEMENTS SHALL BE REMOVED OR KEPT CLEAR FROM TRIANGLES.
42. MAINTENANCE OF TRAFFIC DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPROVED M.O.T. PLAN ON FILE.
43. CONTRACTOR TO MAINTAIN ALL EXISTING SIDEWALKS OPEN DURING CONSTRUCTION, OR A SAFE, ADA COMPLIANT, TEMPORARY APPROVED PEDESTRIAN PATH SHALL BE PROVIDED UNTIL THE SIDEWALK CAN BE REOPENED.
44. RETAINING WALLS SHOWN HEREON ARE TO BE DESIGNED BY OTHERS. ENGINEER ASSUMES NO LIABILITY FOR DAMAGE OR FAILURE OF CIVIL IMPROVEMENTS CAUSED BY FAILURE OF WALLS WHETHER DIRECTLY OR INDIRECTLY. ENGINEER RECOMMENDS GEOTECHNICAL CONSULTANT REVIEW SITE CONDITIONS TO DETERMINE IF A GLOBAL STABILITY ANALYSIS FOR RETAINING WALLS IS APPROPRIATE.
45. MANHOLE LIDS, VALVE COVERS AND CLEAN-OUTS LOCATED IN TRAVEL LANES SHALL BE TRAFFIC BEARING RATED.
46. PRIOR TO THE START OF LAND DISTURBING ACTIVITIES, WHICH INCLUDES DEMOLITION, EARTHWORK AND/OR CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) A NOTICE OF INTENT (NOI) TO OBTAIN COVERAGE UNDER THE NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (CGP) PURSUANT TO THE REQUIREMENTS OF 62-621.300(4)(A) F.A.C. A COPY OF THE NOI SHALL BE SUBMITTED TO THE OPERATOR(S) OF THE MS4. COPIES OF THE SWPPP, NOI, AND FDEP ACKNOWLEDGEMENT LETTER ARE TO BE KEPT ON THE PROJECT SITE AND MADE AVAILABLE UPON REQUEST. UPON COMPLETION OF ALL LAND DISTURBING ACTIVITIES AND AFTER FINAL STABILIZATION OF THE SITE IS COMPLETE, THE DEVELOPER/CONTRACT SHALL SUBMIT TO FDEP A NOTICE OF TERMINATION (NOT) TO END THEIR COVERAGE UNDER THE CGP AND PROVIDE A COPY OF THE NOT TO THE OPERATOR(S) OF THE MS4.

AS-BUILT NOTES:

1. THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF RECORD DRAWINGS TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. RECORD DRAWINGS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH MUNICIPALITY REQUIREMENTS AND THE FOLLOWING REQUIREMENTS.
   1.1. THE VERTICAL AND HORIZONTAL DATUMS USED SHALL BE AS STATED ON THE DRAWINGS.
   1.2. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
   1.3. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, POTABLE WATER AND WASTEWATER PIPING, AND RELATED APPURTENANCES. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC.
   1.4. DRAWINGS SHALL CLEARLY INDICATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN POTABLE WATER MAIN AND STORM DRAINAGE/SANITARY SEWER/RECLAIMED WATER MAINS AT POINTS OF CROSSING IN ACCORDANCE WITH FDEP CRITERIA AND UTILITY PROVIDER REQUIREMENTS.
   1.5. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.
   1.6. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS, BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.
   1.7. LOCATION OF ALL INLETS, MANHOLES, HYDRANTS, VALVES, AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO AND PREFERABLY THREE PERMANENT POINTS OR BY STATE PLANE COORDINATES OR OTHER UTILITY PROVIDER ACCEPTABLE REFERENCE.
   1.8. DIMENSIONS BETWEEN ALL INLETS AND MANHOLES SHALL BE FIELD VERIFIED, AND THE INVERTS AND GRADE ELEVATIONS OF ALL INLETS AND MANHOLES SHALL BE SHOWN.
   1.9. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADING. AS-BUILT POND CONTOURS SHALL BE PROVIDED AT TOP OF BANK, POND BOTTOM, AND ALL GRADE BREAKS AND ELEVATIONS SPECIFIED ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-GRADING POND SLOPES THAT ARE STEEPER THAN REQUIRED PER PLAN (HORIZONTAL:VERTICAL) TO A DEPTH OF 2 FT MINIMUM BELOW THE SLWT.
   1.10. WHERE THE POTABLE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCEMAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE CONSTRUCTED ELEVATIONS, ALONG WITH PHOTOGRAPHS OF EACH CROSSING, IN SUCH A WAY THAT THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND OTHER UTILITIES MAY BE VERIFIED BY THE ENGINEER. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT THE CONTRACTOR'S SOLE EXPENSE.
   1.11. WHERE THE POTABLE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCEMAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE LOCATIONS OF PIPE JOINTS IN SUCH A MANNER AS TO DEMONSTRATE THE PIPE IS CENTERED AT ALL THE CROSSING. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT THE CONTRACTOR'S SOLE EXPENSE.
   1.12. WHERE UPGRADED PIPE MATERIALS ARE SHOWN IN THE PLANS OR AS DIRECTED IN THE FIELD BY THE ENGINEER OR MUNICIPALITY, THE LENGTH, LOCATIONS, FITTINGS, ETC. FOR UPGRADED PIPE SHALL BE SHOWN ON THE AS-BUILT DRAWINGS, RECORD DRAWINGS OR PHOTOS.
   1.13. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR ALL PARK AND OPEN SPACE TRACTS GRADING. ENGINEER WILL CONFIRM COMPLIANCE WITH AGENCY REQUIREMENTS AND NOTIFY CONTRACTOR IF REMEDIAL ACTION IS NECESSARY.
2. COMPLETE CERTIFIED AS-BULT DRAWINGS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO BACTERIOLOGICAL TESTING. FAILURE TO PROVIDE ACCURATE DRAWINGS MAY RESULT IN EXPIRED TEST RESULTS AND REQUIRE ADDITIONAL TESTING AT THE CONTRACTOR'S SOLE EXPENSE.
3. AS-BUILT DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH POULOS & BENNETT CAD STANDARDS.
4. POTABLE WATER CROSSINGS - POULOS & BENNETT REQUIRES THAT AT LEAST TEN PERCENT (10%) OF THE POTABLE WATER CROSSINGS AND INSTALLATIONS BE FIELD VERIFIED BY POULOS & BENNETT STAFF. THE 10% TO BE FIELD VERIFIED WILL BE IDENTIFIED BY POULOS & BENNETT PRIOR TO CONSTRUCTION AND PROVIDED TO THE SITE CONTRACTOR.
5. IN CITY OF APOPKA COMPLETE AS-BUILTS AND ASSET TABLES, MEETING OCU MANUAL OF STANDARD AND CONSTRUCTION SPECIFICATIONS (DATED APRIL 2011), SHALL BE PROVIDED TO POULOS & BENNETT FOR REVIEW AND APPROVAL. PAY APPLICATIONS REQUESTING PAYMENT BEYOND 80% OF CONTRACT AMOUNT, PER SYSTEM, MAY BE HELD AT THE DISCRETION OF THE OWNER UNTIL THE AS-BUILTS AND ASSET TABLES ARE DEEMED COMPLETE BY POULOS & BENNETT.
6. CONTRACTOR SHALL PROVIDE ELEVATIONS OF THE ADA RAMPS, LANDINGS AND CROSS-WALKS AT SUFFICIENT LOCATIONS TO DETERMINE ADHERANCE TO THE ADA GUIDELINES.

SURVEY AND CONTROL:

1. EXISTING TOPOGRAPHY AND CONTOURS BASED ON THE FOLLOWING:

   SURVEYOR: PEC SURVEYING AND MAPPING, LLC
   DRAWING NO.: TOPOGRAPHIC SURVEY
   DATED: 03/23/2022

2. SURVEYOR'S REFERENCE VERTICAL BENCHMARK:

   DESCRIPTION: BENCHMARK NUMBER L708029
   LOCATION: ORANGE COUNTY ENGINEERING
   ELEVATION: 127.968 FEET (NAVD 1988)

3. SITE TEMPORARY VERTICAL BENCHMARK:

   DESCRIPTION: BENCHMARK NUMBER L708027
   LOCATION: ORANGE COUNTY ENGINEERING
   ELEVATION: 145.285 FEET (NAVD 1988)

   BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF THE SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.

PAVING, DRAINAGE AND GRADING:

1. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET STATE OF FLORIDA ACCESSIBILITY CODE AND FEDERAL A.D.A. REQUIREMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING FDEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY IN ACCORDANCE OF FLORIDA ADMINISTRATIVE CODE 62-621.300 (2), 62-620, AND FLORIDA STATUTES CHAPTER 403.
3. DURING CONSTRUCTION, THE GEOTECHNICAL ENGINEER PROVIDING PROJECT TESTING SHALL MONITOR CONSTRUCTION CONDITIONS AND PROVIDE RECOMMENDATIONS FOR ADDITIONAL ROADWAY UNDERDRAINS AS NEEDED. ENGINEER SHALL BE NOTIFIED OF ANY SUCH RECOMMENDATIONS.
4. ALL UPLAND DEVELOPMENT ONSITE AREA, EXCLUDING LANDSCAPE AREAS, SHALL, AT A MINIMUM, BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 TEST METHOD. THIS REQUIREMENT APPLIES TO ALL WORK PREPARED BY THE GENERAL CONTRACTOR AND SUB-CONTRACTORS PERFORMING WORK ONSITE. ENGINEER RESERVES RIGHT TO WITHHOLD PAYMENT FOR ANY AREA THAT DOES NOT MEET DENSITY AS SPECIFIED.
5. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD STAKE AND ROPE OFF CONSERVATION AREA LINES. OWNER RESERVES THE RIGHT TO CHECK THE STAKING AND ROPING AND REQUIRE IT TO BE RELOCATED IF NECESSARY. IT SHALL REMAIN IN PLACE UNTIL ADJACENT CONSTRUCTION IS COMPLETE.
6. ALL SIGNAGE, PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH FDOT "STANDARD PLANS" AND FHWA "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES"; LATEST EDITIONS.
7. REGULATORY SIGNS (STOP, ETC.) SHALL BE IN PLACE PRIOR TO FINAL INSPECTION OF PAVING AND DRAINAGE IMPROVEMENTS. UNLESS SIGNAGE IS PROVIDED BY THE MUNICIPALITY
8. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES AND FROM INVERTS OF ENDWALLS AND/OR MITERED END SECTIONS. BIDDERS SHALL ADJUST FOR PIPE LENGTHS WHEN BIDDING MITERED END SECTIONS.
9. CONTRACTOR SHALL NOT COMPACT, STABILIZE, OR CONSTRUCT BASE COURSE WITHIN LANDSCAPE ISLANDS, TRACTS OR MEDIANS. WHERE SUCH TREATMENT DOES OCCUR, IT SHALL BE REMOVED AND REPLACED WITH SUITABLE PLANTING SOILS ACCEPTABLE TO OWNER'S LANDSCAPE ARCHITECT.
10. ALL PAVEMENT RETURN RADII SHALL BE 25' AND MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
11. SITE GRADING, PAVING AND DRAINAGE MATERIALS AND CONSTRUCTION SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
12. STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.
13. UNDERDRAIN, IF ANY, SHALL BE HEAVY-DUTY CORRUGATED POLYETHLENE PIPE WITH FACTORY-INSTALLED FILTER FABRIC AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS (ADS), OR APPROVED EQUAL
14. UNDERDRAIN DISCHARGE PIPE, IF ANY, SHALL BE PVC PER ASTM D3034 SDR 35 WITH ELASTOMERIC JOINTS, NON-PERFORATED.
15. YARD DRAINS, IF ANY, SHALL BE NYOPLAST INLINE DRAINS AND DRAIN BASINS AS APPLICABLE WITH CAST IRON GRATES AND WATERTIGHT ADAPTER CONNECTIONS (OR APPROVED EQUAL).
16. YARD DRAIN PIPING: PVC CONFORMING TO ASTM D3034, SDR35 SHALL BE USED FOR ALL PIPE RUNS IN WHICH ANY PART LIES UNDER PAVED AREAS. SAID PVC OR HEAVY DUTY CORRUGATED POLYETHYLENE MAY BE USED FOR ALL OTHER RUNS. MATERIAL SELECTION SHALL BE CONSISTENT THROUGHOUT THE PROJECT.
17. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT.
18. FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.
19. THE LIMITS OF THE POND TRACTS SHALL BE SODDED FROM TRACT LIMITS TO 2' BELOW NCL. IN THE CASE OF DRY BOTTOM PONDS, THE BOTTOM WILL BE SEEDED AND MULCHED UNLESS OTHERWISE SPECIFIED.
20. BLUE REFLECTIVE PAVEMENT MARKERS FOR ALL FIRE HYDRANTS SHALL BE PLACED IN THE CENTER OF THE NEAREST TRAVELED LANE TO MARK THEIR LOCATIONS.
21. CONCRETE SIDEWALKS (AS SPECIFIED BY APPROPRIATE ROADWAY SECTION) ADJACENT TO ALL LOTS TO BE INSTALLED BY HOME BUILDER. SIDEWALKS ADJACENT TO PONDS, PARKS, AND OPEN SPACE, AS WELL AS TRACT ACCESS APRONS AS SHOWN ON PLANS,

THE UTILITY NOTES BELOW ARE PROVIDED AS MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO SUPERCEDE LOCAL GOVERNMENT AND AGENCY REQUIREMENTS

POTABLE WATER NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AND IN ACCORDANCE WITH LOCAL GOVERNMENTSTANDARDS.
2. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
3. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
4. ALL GATE VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED CAST BRONZE EXTENSIONS WHERE NEEDED.
5. ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND WILL BE MARKED WITH THE NSF SEAL OF APPROVAL.
6. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED IN ACCORDANCE WITH SUB PARAGRAPH 62-555.320(21)(B)3, F.A.C. USING BLUE AS A PREDOMINANT COLOR. ALL DUCTILE IRON WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE BLUE IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION. FOR PIPE WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES A LONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
7. ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC WATER MAINS SHALL BE A SOLID BLUE COLOR. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.
8. HYDROSTATIC TESTING AND THE DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE AWWA STANDARDS. HYDROSTATIC TESTING TO BE DONE IN ACCORDANCE WITH AWWA C-600 FOR DUCTILE IRON PIPE AND C-605 FOR PVC PIPE. DISINFECTING AND BACTERIOLOGICAL EVALUATION TO BE DONE IN ACCORDANCE WITH AWWA C-651 AND RULE 62-555.340 F.A.C.
9. MARK SERVICES WITH 6' HIGH PIECE OF 2" X 4" PLANK PAINTED BLUE WITH LOT NUMBER CLEARLY MARKED AND A 'W' IMPRESSED IN THE CURB. IT IS THE INTENT THAT EVERY LOT IS CONSISTENT WITH A WATER SERVICE; THEREFORE IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL A WATER SERVICE TO EACH LOT.
10. PIPE MATERIALS:

    PVC - ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900, LATEST EDITION. PVC SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900. THE PVC SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 P.S.I. AND SHALL HAVE A DIMENSION RATIO (DR) OF 18. PIPE SHALL BE THE SAME O.D. AS DUCTILE IRON PIPE.

    PVC JOINT - SHALL BE IN ACCORDANCE WITH ASTM D3139.

    DUCTILE IRON - SHALL CONFORM TO ANSI/AWWA C150/C151. A MINIMUM OF CLASS 50 PIPE SHALL BE SUPPLIED.

    DUCTILE IRON JOINT - SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.

    SERVICES - SHALL BE IN ACCORDANCE WITH AWWA C901/C800 STANDARDS FOR POLYETHYLENE TUBING, CLASS 160.
11. WATER MAIN CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF CITY OF APOPKA. ALL VALVES SHALL BE OPERATED BY LOCAL GOVERNMENT PERSONNEL ONLY. WATERMAINS ARE TO BE DISINFECTED PER ANSI/AWWA C651-92 AND LOCAL GOVERNMENT STANDARDS
12. VERTICAL SEPARATION BETWEEN UNDERGROUND POTABLE WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES:

    NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

    NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
13. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS SHALL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSING, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
14. HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS:

    NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

    NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

    NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

    NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.
15. A MINIMUM OF 3 FEET OF COVER SHALL BE MAINTAINED OVER WATERMAINS, UNLESS OTHERWISE NOTED.
16. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL CONTAIN NO MORE 8.0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT SHALL CONTAIN NO MORE THAN 0.2% LEAD.
17. NEW OR ALTERED DEAD-END WATER MAINS INCLUDED IN THIS PROJECT SHALL BE PROVIDED WITH A FIRE OR FLUSHING HYDRANT OR BLOW-OFF FOR FLUSHING PURPOSES.
18. NEW OR ALTERED FIRE HYDRANT LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6" AND SHALL INCLUDE AN AUXILIARY VALVE.
19. IF AGGRESSIVE SOIL CONDITIONS ARE FOUND DURING CONSTRUCTION, WATER MAINS SHALL BE PROTECTED THROUGH THE USE OF CORROSION RESISTANT MATERIALS, THROUGH ENCASEMENT OF THE WATER MAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION.
20. A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF A LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT.
21. CONTRACTOR SHALL NOT ACTIVATE WATER SERVICE UNTIL THE FDEP HAS CLEARED THE SYSTEM FOR USE AND THE CLEARANCE LETTER HAS BEEN RECEIVED BY THE OWNER.
22. CONTRACTOR SHALL COORDINATE ALL UTILITIES SYSTEMS TEST SCHEDULING TO ALLOW ENGINEER'S ATTENDANCE PROVIDING MINIMUM NOTICE OF FIVE (5) WORKING DAYS. CONTRACTOR'S FAILURE TO PROPERLY NOTIFY ENGINEER MAY RESULT IN RETESTING AT ENGINEER'S OPTION AND AT CONTRACTOR'S EXPENSE.
23. ENGINEER RESERVES THE RIGHT TO WITHHOLD AUTHORIZATION OF PAYMENT FOR ANY PORTION OF THE UTILITIES PIPE WORK WHICH HAS NOT BEEN TESTED (OBSERVED BY ENGINEER) AND REPORTED TO CONFORM TO PROJECT SPECIFICATIONS.
24. SITE CONTRACTOR SHALL COORDINATE AND VERIFY ALL UTILITY SERVICES WITH FINAL ARCHITECTURAL DRAWINGS AND BUILDING CONTRACTOR.
25. CONTRACTOR SHALL VERIFY SIZE AND TYPE OF EXISTING MAIN PRIOR TO ORDERING TAPPING MATERIALS FOR TIE-INS.
26. CONCRETE CURBS SHALL BE CHISELED OR IMPRINTED TO SHOW LOCATIONS OF WATER AND SEWER SERVICE LINES/LATERALS. MARKING SHALL CONFORM WITH LOCAL STANDARDS. WHERE NO STANDARDS EXIST, USE "R" FOR RECLAIMED WATER, "W" FOR WATER, AND "S" FOR SANITARY.
27. FIRE HYDRANTS WHICH ARE GRAPHICALLY SHOWN ON OR NEAR LOT LINES AND NOT OTHERWISE LOCATED BY STATIONING OR DIMENSIONING SHALL BE CENTERED ON THE LOT LINE.

THE UTILITY NOTES BELOW ARE PROVIDED AS MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO SUPERCEDE LOCAL GOVERNMENT AND AGENCY REQUIREMENTS

SANITARY SEWER NOTES:

1. ALL MANHOLES SHALL HAVE A MINIMUM DIAMETER OF 48 INCHES AND A MINIMUM ACCESS DIAMETER OF 22 INCHES.
2. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN MANHOLE CENTERLINE.
3. ALL SANITARY SERVICE LATERALS SHALL BE 6 INCH DIAMETER PVC. LATERALS SHALL END WITH A CLEAN OUT AT RIGHT-OF-WAY LINE.
4. INVERTS OF SANITARY SERVICE LATERALS AT THEIR CONNECTION TO SANITARY MANHOLES SHALL BE NO MORE THAN ONE (1) FOOT ABOVE THE MANHOLE INVERT.
5. PRIOR TO PAVING, CONTRACTOR SHALL VERIFY THE AS-BUILT SANITARY SEWER PIPE SLOPES. MINIMUM SHALL BE IN ACCORDANCE WITH FDEP MINIMUM CRITERIA BUILT FOR 8" PVC SEWER LINE SLOPE WILL BE 0.28%, FOR 12" PVC WILL BE 0.17% AND FOR 15" PVC WILL BE 0.12%. ANY LINE NOT MEETING MINIMUM SLOPE WILL BE RELAYED BY CONTRACTOR TO MEET THE MINIMUM SLOPE REQUIREMENT AT NO ADDITIONAL COST.
6. MARK LATERALS WITH 6' HIGH PIECE OF 2" X 4" PLANK PAINTED ORANGE W/ LOT NUMBER CLEARLY MARKED AND A 'S' IMPRESSED IN THE CURB.
7. LEAKAGE TESTS ARE SPECIFIED REQUIRING THAT:

    THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM.

    EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.

    AIR TESTS, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828 FOR CLAY PIPE, ASTM C924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES. AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORMS TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.
8. MANHOLE LIFT HOLES AND GRADE ADJUSTMENT RINGS BE SEALED WITH NON-SHRINKING MORTAR OR OTHER APPROPRIATE MATERIAL.
9. INLET AND OUTLET PIPES BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATER-TIGHT CONNECTION OR ANOTHER WATER-TIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL.
10. WATER-TIGHT MANHOLE COVERS BE USED WHEREVER THE MANHOLE TOPS MAY BE FLOODED BY STREET RUNOFF OF HIGH WATER.
11. MINIMUM SEPARATION BETWEEN POTABLE WATER LINES AND SANITARY HAZARDS (SANITARY SEWER, FORCE MAIN, STORM SEWER, REUSE WATER) SHALL BE MAINTAINED. A HORIZONTAL CLEARANCE OF TEN (10) FEET IN PARALLEL INSTALLATION AND 12 INCHES VERTICALLY AT CROSSINGS. SHALL A VERTICAL SEPARATION OF LESS THAN THAT STIPULATED BE REQUIRED, THE WATER LINE SHALL BE CONSTRUCTED OF 20 FEET OF PRESSURE TIGHT JOINT DUCTILE IRON PIPE. IF THE REQUIRED 10 FT. HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, THE SEWER MAIN SHALL BE PLACED IN A D.I.P. SLEEVE OR ENCASED IN CONCRETE IN ACCORDANCE WITH FDEP SPECIFICATIONS.
12. PVC GRAVITY SEWER PIPE SHALL MEET ASTM D3034, SDR35.
13. ALL SANITARY SEWER PIPE SHALL BE COLORED GREEN.
14. FIBERGLASS LINE ALL MANHOLES WHICH RECEIVE DISCHARGE FROM A FORCEMAIN.
15. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SERVICES AT EACH LOT. SERVICES SHALL HAVE 3' MIN. AND 4' MAX. COVER AT LOT CLEAN OUT.

THE UTILITY NOTES BELOW ARE PROVIDED AS MINIMUM REQUIREMENTS AND ARE NOTE INTENDED TO SUPERCEDE LOCAL GOVERNMENT AND AGENCY REQUIREMENTS

RECLAIMED WATER NOTES:

1. ALL RECLAIMED WATER PIPES SHALL BE INSTALLED USING WATER PIPE CRITERIA. MAINS SHALL BE CLASS 52 DIP IF 24"-30" OF COVER IS PROVIDED AND CLASS 51 IF 30"-36" COVER IS PROVIDED.
2. PROVIDE 6" MINIMUM SEPARATION BETWEEN RECLAIMED WATER AND STORM PIPES AND A MINIMUM OF 3' OF COVER OVER THE RECLAIMED WATER MAIN. RECLAIMED WATER WHEN LESS THAN 3' OF COVER IS ACHIEVED SHALL BE D.I.P. (COVER LESS THAN 3' IS ONLY ALLOWED AT SPECIFIC CROSSINGS APPROVED BY ENGINEER) PROVIDE MECHANICAL JOINTS AND FITTINGS AS NECESSARY FOR THE VERTICAL TRANSITIONS.
3. EXCEPT FOR PVC PIPE, MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75% OF THE PIPE MANUFACTURER'S RECOMMENDATION. A MINIMUM VERTICAL CLEARANCE OF 18" SHALL BE MAINTAINED. WHERE 18" CLEARANCE IS NOT POSSIBLE, WATER AND RECLAIMED WATER WILL BE UPGRADED TO D.I.P.
4. MARK LATERALS WITH 6' HIGH PIECE OF 2" X 4" PLANK PAINTED PURPLE, AND AN R IMPRESSED IN THE CURB.
5. CASINGS WILL BE PROVIDED FOR SERVICES LOCATED UNDER LANDSCAPE MEDIANS.
6. ALL PVC RECLAIMED WATER PIPE SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS, MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF) AND BE PURPLE IN COLOR.
7. ALL DUCTILE IRON RECLAIMED WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE PURPLE IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION.
8. ALL NON-METALLIC RECLAIMED WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC RECLAIMED WATER MAINS SHALL BE SOLID, PANTONE PURPLE COLOR.
9. HYDROSTATIC TESTING OF THE RECLAIMED WATER DISTRIBUTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE AWWA STANDARDS. HYDROSTATIC TESTING TO BE DONE IN ACCORDANCE WITH AWWA C-600 FOR DUCTILE IRON PIPE AND M23 FOR PVC PIPE.
10. ALL RECLAIMED WATER HOSE BIBBS, HAND-OPERATED CONNECTIONS AND OUTLETS SHALL BE CONTAINED IN UNDERGROUND SERVICE VAULTS AND SHALL BE APPROPRIATELY TAGGED OR LABELED TO WARN THE PUBLIC AND EMPLOYEES THAT THE WATER IS NOT INTENDED FOR DRINKING. ALL PIPING, PIPELINES, VALVES AND OUTLETS SHALL BE COLOR CODED PANTONE 522C PURPLE AND MARKED PER LOCAL AND STATE CODES TO DIFFERENTIATE RECLAIMED WATER FROM POTABLE OR OTHER WATER.
11. VAULTS FOR RECLAIMED WATER HOSE BIBBS AND OUTLETS SHALL BE LOCKED OR REQUIRE A SPECIAL TOOL FOR OPERATION OF HOSE BIBBS AND OUTLETS.
12. LOW TRAJECTORY NOZZLES ARE REQUIRED WITHIN 100 FEET OF ANY OUTDOOR PUBLIC EATING, DRINKING OR BATHING FACILITIES.
13. A RESIDENTIAL DUAL CHECK VALVE OR OTHER BACKFLOW PREVENTION DEVICE AS SPECIFIED BY THE SEWER/RECLAIMED WATER UTILITY COMPANY IS REQUIRED ON ALL POTABLE WATER LINES AT EACH RESIDENTIAL SITE WHICH IS SERVICED WITH RECLAIMED WATER.
14. SIGNS SHALL BE POSTED IN THE VICINITY OF PUBLIC RECLAIMED WATER RECLAIMED WATER IRRIGATION SYSTEMS, ADVISING THE PUBLIC THAT RECLAIMED WATER IS PRACTICED.
15. BOX COVERS FOR RECLAIMED WATER SYSTEM ELEMENTS (VALVES, METER, BFP's, ETC.) SHALL, TO THE EXTENT REASONABLE, NOT BE INTERCHANGEABLE WITH BOX COVERS FOR WATER SYSTEM ELEMENTS.
16. RECLAIMED WATER SYSTEMS AND POTABLE WATER SYSTEMS SHALL NOT BE CROSS-CONNECTED. AN AIR GAP OF TWO PIPE DIAMETERS IS REQUIRED BETWEEN SUCH WATERS.
17. THE WETTED EDGE OF AREAS IRRIGATION WITH RECLAIMED WATER SHALL NOT BE CLOSER THAN 75 FEET TO ANY PUBLIC OR PRIVATE POTABLE WATER WELL.
18. NO RECLAIMED WATER TRANSMISSION FACILITY/MAIN SHALL BE WITHIN 75 FEET OF ANY PUBLIC WATER SUPPLY WELL.

DEMOLITION NOTES:

1. CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL FOR DISPOSAL OFF-SITE. DISPOSAL SHALL CONFORM TO ALL APPLICABLE REGULATIONS.
2. EXISTING UNDERGROUND UTILITIES, UNLESS OTHERWISE NOTED, MAY BE CAPPED/PLUGGED AND ABANDONED IN PLACE EXCEPT WITHIN 30 FT. OF BUILDING. CAPPED AND PLUGGED PIPE ENDS SHALL BE ENCASED IN CONCRETE, 6" MINIMUM THICKNESS AROUND PIPE. MANHOLE BASES MAY BE LEFT IN PLACE PROVIDED THAT PIPE OPENINGS ARE PLUGGED AND REMAINING BASES ARE FILLED WITH CONCRETE 6" MINIMUM ABOVE HIGHEST INVERT.
3. ANY MATERIALS CLAIMED AS SALVAGE BY OWNER EITHER IN THE FIELD OR IN THE DRAWINGS SHALL BE STOCKPILED FOR OWNER'S REMOVAL.
4. CONTRACTOR SHALL BE KNOWLEDGEABLE OF THE CONSTRUCTION DOCUMENTS AND BE RESPONSIBLE FOR PROTECTING ANY EXISTING FACILITY SO DESIGNATED OR DESIGNATED TO BE USED IN THE WORK.
5. CONTRACTOR SHALL REMOVE ALL FOUNDATIONS, CONCRETE SLABS, AND UNDERGROUND STRUCTURES EXISTING ON THE SITE AT THE TIME OF BIDDING UNLESS OTHERWISE DIRECTED.
6. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES AND BE RESPONSIBLE FOR THE TERMINATION, CAPPING-OFF AND REMOVAL OF ALL UNDERGROUND AND ABOVE-GROUND UTILITY SERVICES EXISTING AT THE TIME OF BIDDING UNLESS DIRECTED TO BID OTHERWISE.
7. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND DISPOSING ALL WASTE MATERIALS CONSISTENT WITH ALL RULES AND REGULATIONS APPLICABLE TO THE SPECIFIC MATERIAL FOUND.

ADA NOTES:

1. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS, STRIPING AND HANDICAP RAMPS AT ALL INTERSECTIONS OF SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET STATE OF FLORIDA ACCESSIBILITY CODE AND FEDERAL A.D.A. SPECIFICATIONS.
2. PAVEMENT GRADES OVER HANDICAPPED PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION EXCEPT AT RAMPS. (NOTE: RAMP LENGTHS MAY EXCEED 6 FEET.)
3. PROPOSED AND EXISTING SIDEWALKS SHALL BE RAMPED FLUSH WITH PAVEMENT. RAMPS SHALL NOT EXCEED SLOPES OF 12 HORIZONTAL TO 1 VERTICAL. (NOTE: RAMP LENGTHS REQUIRED MAY EXCEED 6 FT.)
4. WHERE SIDEWALK RAMPS CONNECT TO MIAMI CURB, THE SLOPE OF THE MIAMI CURB SHALL BE NO STEEPER THAN 12:1 TO CONFORM WITH FLORIDA/FEDERAL REGULATORY REQUIREMENTS. TWO FT. LONG CURB TRANSITIONS SHALL BE USED AT EACH SIDE OF THE RAMP.
5. WHERE RAMPS ARE POURED ADJACENT TO EXISTING MIAMI CURB, THE CURB SHALL BE REMOVED, FOR A DISTANCE EXTENDING TWO FT. BEYOND EACH END OF THE WALK AND RECONSTRUCTED.
6. SIDEWALK RAMPS SHALL INCLUDE DETECTABLE WARNINGS THAT ARE TEXTURED IN CONFORMANCE WITH FDOT STANDARDS EXCEPT WHERE LOCAL CODES DICTATE OTHERWISE. CONTRACTOR SHALL COORDINATE WITH LOCAL AUTHORITY FOR PRE-POUR INSPECTION PRIOR TO ANY SIDEWALK AND/OR RAMP CONCRETE POURS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT ALL RAMP TEXTURED SURFACES AND SIDEWALK LONGITUDINAL AND CROSS SLOPES ARE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL ADA AND FAIR HOUSING ACT STANDARDS.
7. CONTRACTOR SHALL COORDINATE WITH ENGINEER FOR PRE-POUR INSPECTION PRIOR TO ANY SIDEWALK AND/OR CURB RAMP CONCRETE POURS.
8. ALL MANHOLE, PULL BOX, UTILITY VAULT, VALVE, OR OTHER COVERS LOCATED WITHIN SIDEWALKS AND CROSSWALKS SHALL BE ADA COMPLIANT.

FIRE PROTECTION NOTES:

1. MAINS DESIGNATED AS FIRE PROTECTION SHALL BE INSTALLED BY A FLORIDA LICENSED FIRE PROTECTION CONTRACTOR AND REVIEWED FOR CONFORMANCE BY A LICENSED FIRE PROTECTION ENGINEER.
2. FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
3. IN INSTANCES WHERE THERE ARE NO FIRE HYDRANTS IN CLOSE PROXIMITY TO PROVIDE FIRE PROTECTION, PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1, 16.4.3.1.3, UNDERGROUND WATER MAINS AND HYDRANTS ARE REQUIRED TO BE PROVIDED SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
4. PER NFPA-1, 18.3.4.1, DURING CONSTRUCTION, CLEARANCES OF 7.5 FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4-FOOT CLEARANCE TO THE REAR MUST BE PROVIDED AND MAINTAINED AT ALL TIMES.

ADS HDPE GENERAL NOTES:

1. SHOULD CONSTRUCTION PLANS INDICATE ADS PIPE MAY BE USED, ENGINEER SHALL BE NOTIFIED OF SUCH BY CONTRACTOR PRIOR TO MATERIAL ORDERING. ENGINEER SHALL BE PROVIDED WITH SPECIFICATIONS AND INSTALLATION METHODS PRIOR TO INSTALLATION.
2. WHERE ADS PIPE IS USED AS AN ALTERNATE TO REINFORCED CONCRETE PIPE, CONTRACTOR SHALL SUBMIT BIDS TO ENGINEER IN WRITING FOR REVIEW AND APPROVAL OF MATERIAL COST SAVINGS TO OWNER.
3. ADS PIPE SHALL NOT BE USED IN AREAS OF HIGH GROUNDWATER UNLESS PROPER ADS APPROVED METHODS ARE USED TO MITIGATE FOR POTENTIAL FLOTATION AND ALIGNMENT SHIFTS. AN AUTHORIZED ADS REPRESENTATIVE SHALL INSPECT ALL SUCH AREAS.
4. PIPE SHALL MEET ALL GOVERNING LOCAL AUTHORITY REQUIREMENTS AS WELL AS THE FLORIDA DEPARTMENT OF TRANSPORTATION. CONTRACTOR SHALL PROVIDE WRITTEN PROOF OF ACCEPTANCE BY LOCAL GOVERNMENT FOR PIPE USE.
5. ADS PIPE PREVIOUSLY STORED IN OUTDOOR CONDITIONS SHALL BE DISCLOSED TO ENGINEER FOR THIRD PARTY REVIEW OF PIPE PRIOR TO ACCEPTANCE FOR USE.
6. ALL INSTALLED PIPE IS SUBJECT TO MANDREL TESTING PRIOR TO ACCEPTANCE.
7. IN MUNICIPALITIES WHERE ADS PIPE IS NOT ALLOWED IN THE PUBLIC RIGHTS-OF-WAY, THE CONTRACTOR MAY USE ADS PIPE IN PRIVATE, NON-PUBLIC AREAS WITH ENGINEER'S PERMISSION.
8. PIPE 4" TO 48" (WHERE DESIGNATED) SHALL BE ADS HDPE N-12 SMOOTH INTERIOR POLYETHYLENE PIPE. PIPE AND FITTINGS SHALL BE MADE OF VIRGIN PE COMPOUNDS WITH CONFORM WITH THE REQUIREMENTS OF CELL CLASS 324420C AND DEFINED AND DESCRIBED IN ASTM D3350.
9. THE HDPE FITTINGS SHALL NOT REDUCE OR IMPAIR THE OVERALL INTEGRITY OR FUNCTION OF THE PIPE LINE. FITTINGS MAY BE EITHER MOLDED OR FABRICATED. THE FITTINGS MAY BE INSTALLED BY VARIOUS METHODS, SUCH AS SNAP-ON, SCREW-ON, BELL & SPIGOT AND WRAP AROUND. COUPLINGS SHALL PROVIDE SUFFICIENT LONGITUDINAL STRENGTH TO PRESERVE PIPE ALIGNMENT AND PREVENT SEPARATION AT THE JOINTS. ONLY FITTINGS SUPPLIED OR RECOMMENDED BY THE PIPE MANUFACTURER SHALL BE USED. WHERE DESIGNATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD, A NEOPRENE OR RUBBER GASKET SHALL BE SUPPLIED.
10. PIPE SHALL BE INSTALLED BY A CONTRACTOR WHO HAS BEEN CERTIFIED BY ADS OR SHALL BE INSTRUCTED BY A CERTIFIED ADS REPRESENTATIVE TO DO SO.
11. A REPRESENTATIVE OF ADS SHALL INSPECT FROM TIME TO TIME THE INSTALLATION OF THE PIPE.
12. HP MANHOLE STRUCTURES WILL NOT BE ALLOWED FOR USE WITHOUT ENGINEERS PRE-AUTHORIZATION.
13. GENERAL SPECIFICATIONS:

    SCOPE

    THIS SPECIFICATION DESCRIBES 12- THROUGH 60-INCH (300 TO 1500 MM) ADS HP STORM PIPE FOR USE IN GRAVITY- FLOW STORM DRAINAGE APPLICATIONS.

    PIPE REQUIREMENTS

    12- THROUGH 30-INCH (300 TO 750 MM) PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS AND MEET OR EXCEED ASTM F2736 AND AASHTO M330

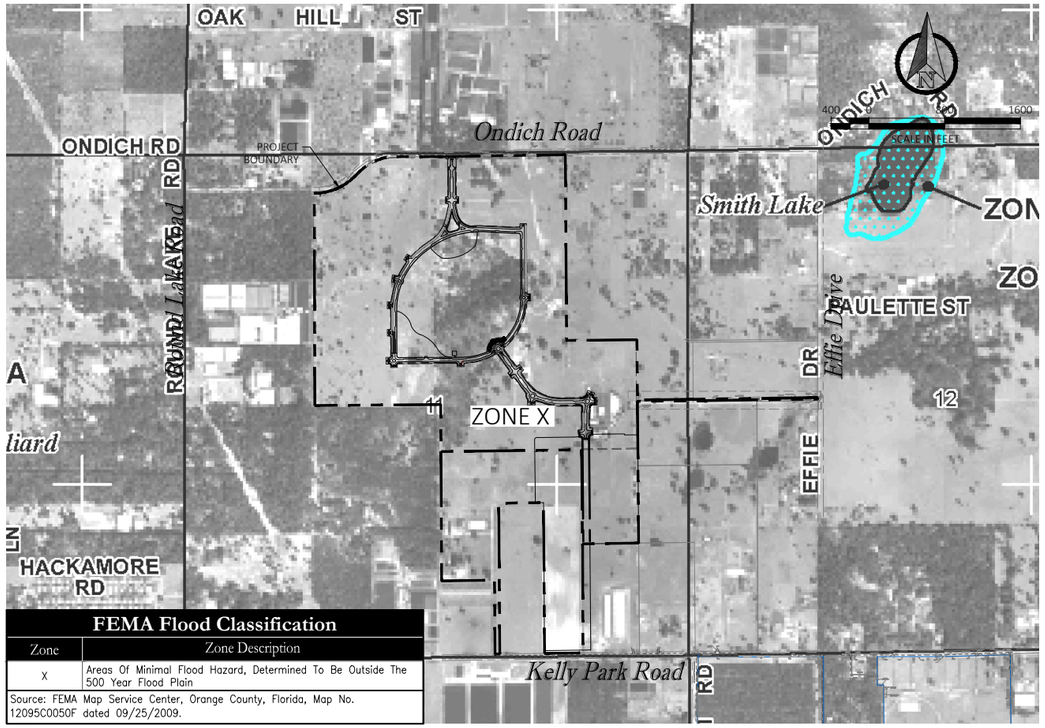
    36- THROUGH 60-INCH (900 TO 1500 MM) PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS AND MEET OR EXCEED ASTM F2881 AND AASHTO M330

    MANNING'S "N" VALUE FOR USE IN DESIGN SHALL BE 0.012

    JOINT PERFORMANCE

    PIPE SHALL BE JOINED WITH A GASKETED INTEGRAL BELL & SPIGOT JOINT MEETING THE REQUIREMENTS OF ASTM F2736 OR F2881, FOR THE RESPECTIVE DIAMETERS.

    12- THROUGH 60-INCH (300 TO 1500 MM) SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212. SPIGOTS SHALL HAVE GASKETS MEETING THE REQUIREMENTS OF ASTM F477. GASKET SHALL BE INSTALLED BY THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE, PROTECTIVE

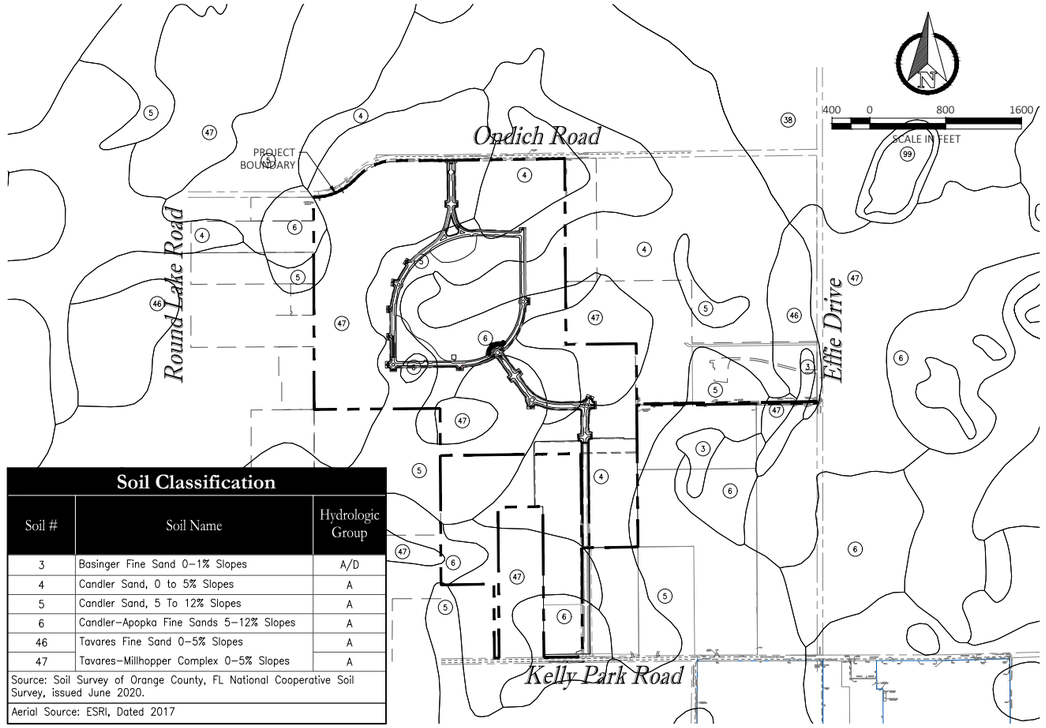


FEMA Flood Classification

Zone	Zone Description
X	Areas Of Minimal Flood Hazard, Determined To Be Outside The 500 Year Flood Plain

Source: FEMA Map Service Center, Orange County, Florida, Map No. 12095C0050F dated 09/25/2009.

FEMA MAP



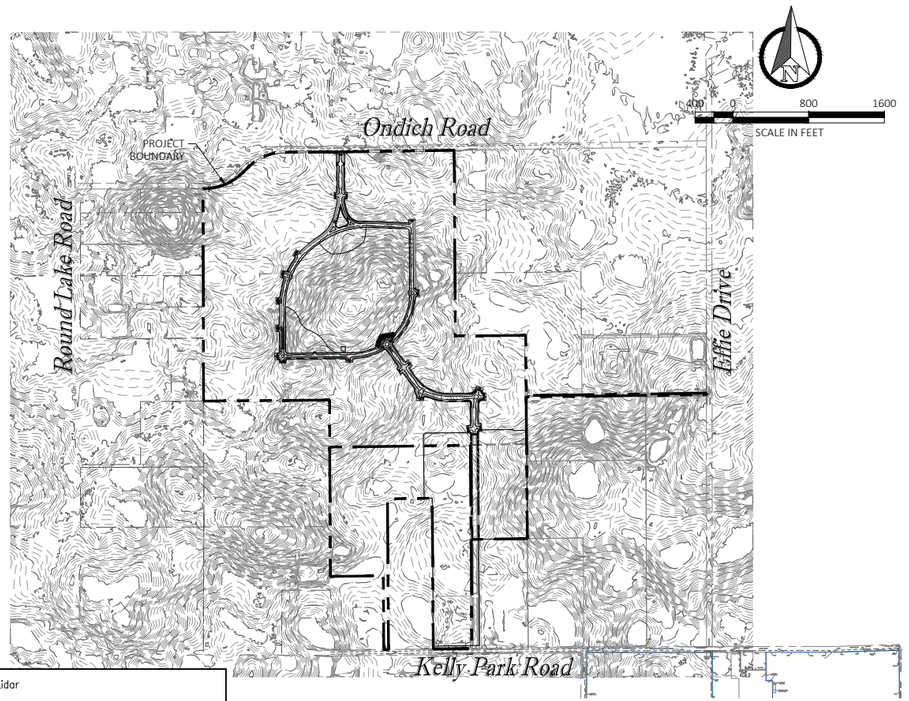
Soil Classification

Soil #	Soil Name	Hydrologic Group
3	Basinger Fine Sand 0–1% Slopes	A/D
4	Candler Sand, 0 to 5% Slopes	A
5	Candler Sand, 5 To 12% Slopes	A
6	Candler–Apopka Fine Sands 5–12% Slopes	A
46	Tavares Fine Sand 0–5% Slopes	A
47	Tavares–Millhopper Complex 0–5% Slopes	A

Source: Soil Survey of Orange County, FL National Cooperative Soil Survey, issued June 2020.

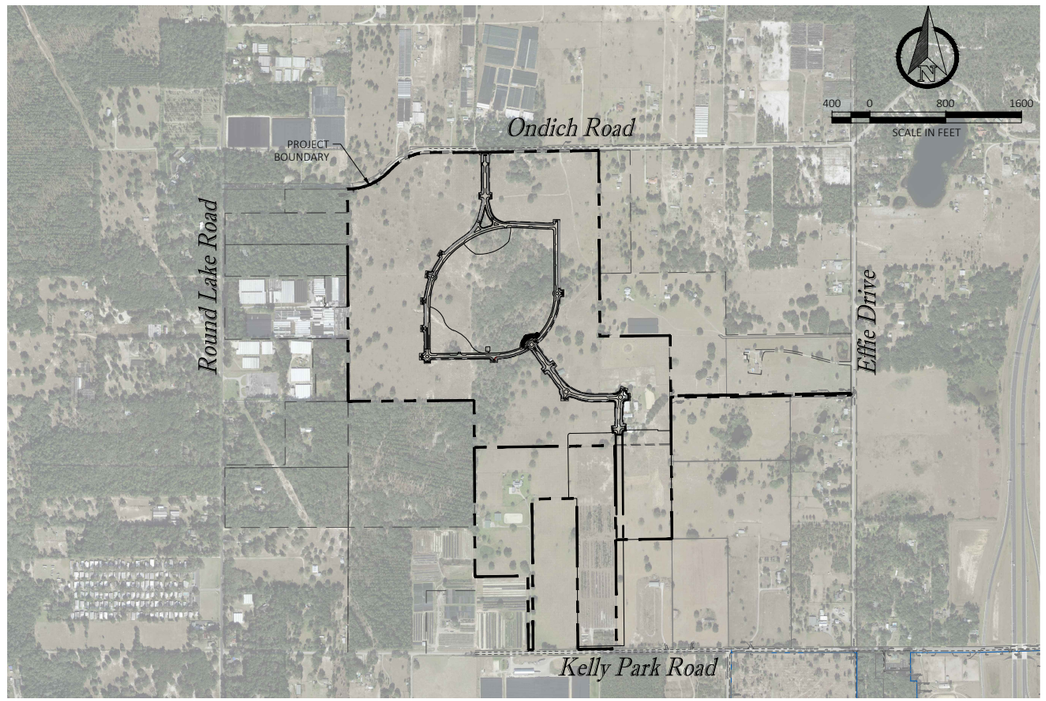
Aerial Source: ESRI, Dated 2017

SOILS MAP



Source: Orange County Lidar

TOPOGRAPHY



AERIAL

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
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-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 800'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

EXISTING CONDITIONS PLAN

Sheet No.:

C0.03

Seal:

LICENSE No. 52781 STATE OF FLORIDA REGISTERED ENGINEER

MARC DANIEL STEHLI P.E. NO. 065781

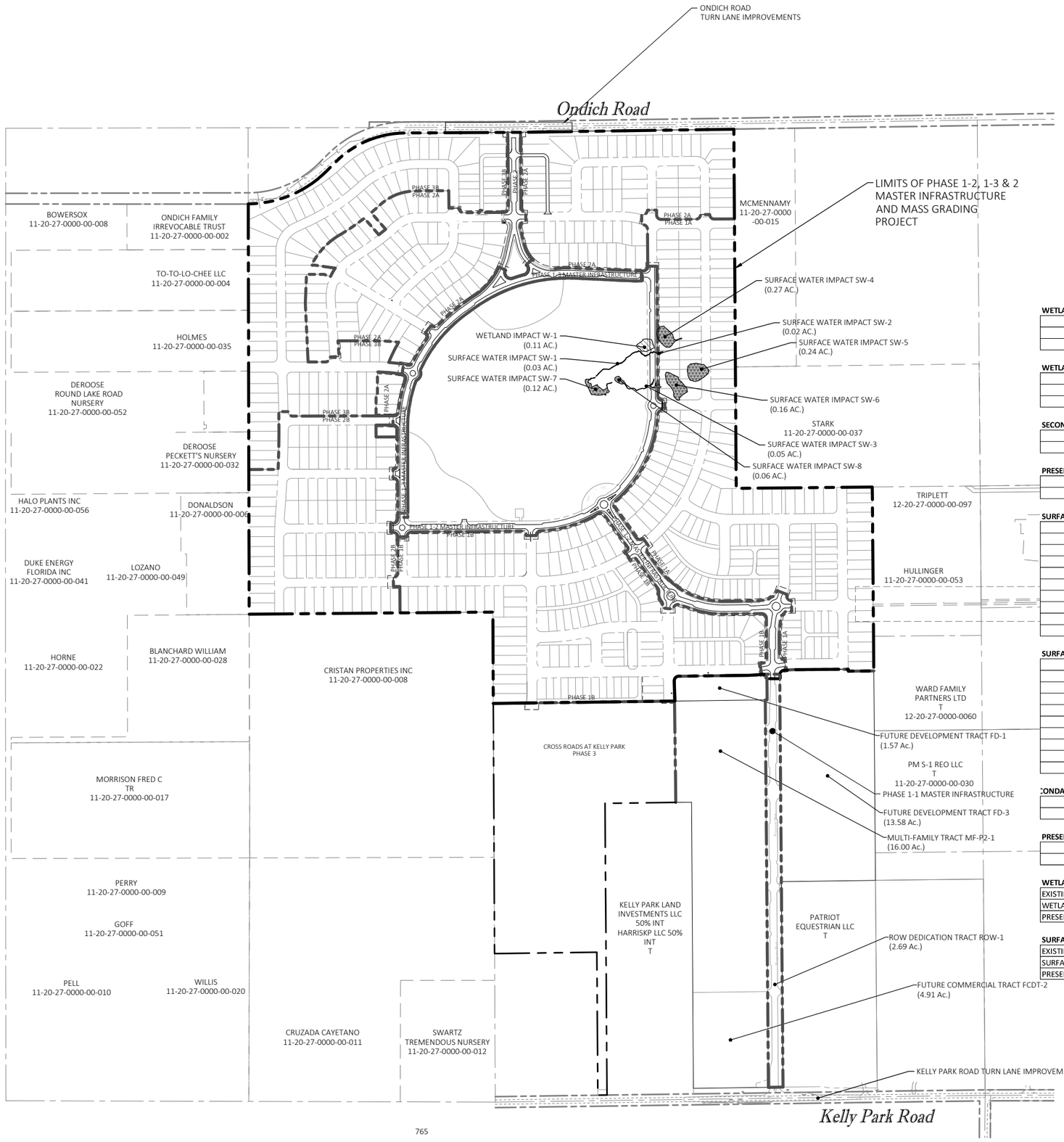
DATE: August 7, 2023

Marc D Stehli

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N

150 0 300 600
SCALE IN FEET

LEGEND

- WETLAND
- WETLAND IMPACT AREA
- SURFACE WATER
- SURFACE WATER IMPACT AREA

WETLANDS

TRACT ID	ACREAGE
W-1	0.11
TOTAL	**0.11**

WETLAND IMPACTS

TRACT ID	ACREAGE
W-1	0.11
TOTAL	**0.11**

SECONDARY WETLAND IMPACTS

TRACT ID	ACREAGE
TOTAL	**0.00**

PRESERVED WETLANDS

TRACT ID	ACREAGE
TOTAL	**0.00**

SURFACE WATERS

TRACT ID	ACREAGE
SW-1	0.03
SW-2	0.02
SW-3	0.05
SW-4	0.27
SW-5	0.24
SW-6	0.16
SW-7	0.12
SW-8	0.06
TOTAL	**0.95**

SURFACE WATER IMPACTS

TRACT ID	ACREAGE
SW-1	0.03
SW-2	0.02
SW-3	0.05
SW-4	0.27
SW-5	0.24
SW-6	0.16
SW-7	0.12
SW-8	0.06
TOTAL	**0.95**

:ONDARY SURFACE WATER IMPACTS

TRACT ID	ACREAGE
TOTAL	**0.00**

PRESERVED SURFACE WATERS

TRACT ID	ACREAGE
TOTAL	**0.00**

WETLANDS

EXISTING WETLANDS	0.11
WETLAND IMPACTS	0.11
PRESERVED WETLANDS	0.00

SURFACE WATERS

EXISTING SURFACE WATERS	0.95
SURFACE WATER IMPACTS	0.95
PRESERVED SURFACE WATERS	0.00

Key Map:

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Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

WETLAND IMPACT PLAN

Sheet No.:

C0.10

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

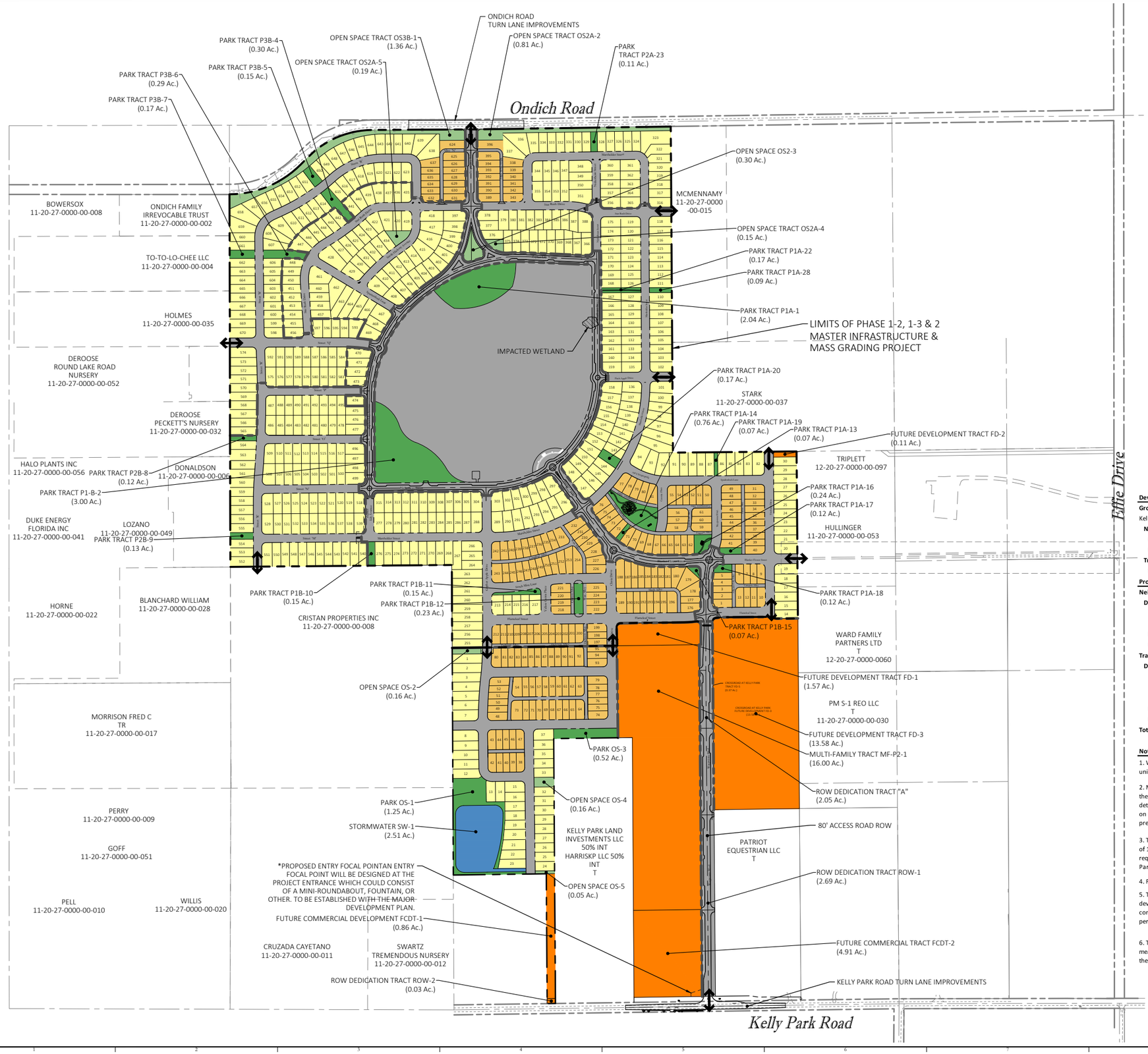
MARC DANIEL STEHLI
P.E. NO. 065781
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Key Map:

150 0 300 600
SCALE IN FEET

LEGEND

- MASTER PLAN BOUNDARY
- PHASE LINE
- RIGHT-OF-WAY
- LOT LINE
- FULL ACCESS
- 52' x 110' MIN. LOTS
- 40' x 110' MIN. ALLEY LOTS
- OPEN SPACE
- PARK
- FUTURE DEVELOPMENT
- IMPACTED WETLAND

Development Data	*(Ph 3 Acreages Not Included)*	
Gross Site Area		205.04 Acres
Kelly Park Character District		Neighborhood & Transition
Neighborhood		181.28 Acres
Impacted Wetland		0.08 Acres
Net Developable Area		181.20 Acres
Transition		23.76 Acres
Net Developable Area		23.76 Acres
Proposed Development Program	*(Ph 3 Units Not Included)*	
Neighborhood District		
Dwelling Units		**651 Units**
52' x 110' Minimum		498 Units
40' x 110' Minimum		153 Units
Maximum Density		5 Du/Ac.
Proposed Density		3.59 Du/Ac.
Transition District[1]		
Dwelling Units		**319 Units**
52' x 110' Minimum		6 Units
40' x 110' Minimum		13 Units
Future Multi-Family[2]		300 Units
Maximum Density[3]		15 Du/Ac.
Proposed Density		13.43 Du/Ac.
Total Number of Dwelling Units		**970 Units**

Notes:

1. Within the Transition District, density will be calculated based on the total number of units in the entire Transition District of this Master Plan.

2. Multi-Family development will comply with the requirements of the Kelly Park Interchange Form Based Code. Development details will be provided at Site Plan submittal. Access locations shown on the Master Site Plan for the Multi-Family development are preliminary. Final locations will be determined with Site Plan approval.

3. To achieve the maximum density allowed within the Transition district of 15 dwelling units/acre, the 3,000 square foot public open space, as required by the KPI Form-Based Code Section R.1.b, is provided within Park Tract P1A-16.

4. Future Development Track will be require separate development plan.

5. The amenity elements depicted for Park Tracts P1A-1 & P1B-2 shall be provided with the development of these tracts. However, the site plans as depicted within these plans should be considered conceptual in nature and subject to modification based on final design and permitting requirements.

6. The Development shall coordinate with the City of Apopka to provide traffic calming measures. The requirement for and design of traffic calming measures shall be determined at the Final Construction Plan phase and shall be reflected in the Final Construction Plans.

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SCALE IN FEET:	1" = 300'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

OVERALL MASTER PLAN

Sheet No.:

C1.00

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

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OWNERSHIP / MAINTENANCE

ROADWAYS	PUBLIC	TO BE OWNED AND MAINTAINED BY CITY OF APOPKA
ALLEYS	PUBLIC	TO BE OWNED AND MAINTAINED BY CITY OF APOPKA
DRAINAGE TRACTS	PRIVATE	TO BE OWNED AND MAINTAINED BY THE CDD OR HOA WITH EASEMENT TO CITY OF APOPKA
DRAINAGE EASEMENTS (D.E.)	PUBLIC	TO BE DEDICATED TO CDD OR HOA . DRAINAGE FACILITIES WITHIN THE EASEMENTS ARE TO BE OWNED AND MAINTAINED BY CITY OF APOPKA.
PRIVATE DRAINAGE EASEMENTS (P.D.E.)	PRIVATE	TO BE DEDICATED TO THE CDD OR HOA. DRAINAGE FACILITIES WITHIN THE EASEMENTS ARE TO BE OWNED AND MAINTAINED BY THE CDD OR HOA.
UTILITY EASEMENTS	PUBLIC	TO BE DEDICATED TO CITY OF APOPKA. UTILITIES WITHIN THE EASEMENTS ARE TO BE OWNED AND MAINTAINED BY APOPKA UTILITIES.
WATER, RECLAIMED WATER AND SANITARY SEWER UTILITIES	PUBLIC	TO BE OWNED AND MAINTAINED BY CITY OF APOPKA UP TO METERS/CLEAN-OUTS
LIFT STATION TRACTS	PUBLIC	TO BE OWNED AND MAINTAINED BY CITY OF APOPKA
PARK/OPEN SPACE TRACTS	PRIVATE	TO BE OWNED AND MAINTAINED BY THE CDD OR HOA
SIDEWALKS IN PUBLIC RIGHT OF WAY	PUBLIC	TO BE OWNED AND MAINTAINED BY CITY OF APOPKA
STORMWATER & STREET LIGHTING	PUBLIC	AN MSBU WILL BE ESTABLISHED FOR ROUTINE MAINTENANCE OF STORMWATER SYSTEM FUNCTIONALITY AND STANDARD OPERATION MAINTENANCE OF STREET LIGHTING
SIDEWALK EASEMENTS	PUBLIC	TO BE OWNED AND MAINTAINED BY CITY OF APOPKA
STREET TREES IN PUBLIC ROW	PRIVATE	TO BE OWNED AND MAINTAINED BY THE HOA
PARKING SPACE STRIPING IN PUBLIC ROW	PRIVATE	TO BE OWNED AND MAINTAINED BY THE HOA

MISCELLANEOUS

POTABLE WATER SERVICE	CITY OF APOPKA
RECLAIMED WATER SERVICE	CITY OF APOPKA
WASTEWATER SERVICE	CITY OF APOPKA
ELECTRIC SERVICE	DUKE ENERGY
FIRE PROTECTION	CITY OF APOPKA

ALLEY TRACTS

PHASE-1A	A1A-6	0.21
	A1A-7	0.19
	A1A-8	0.53
	A1A-9	0.14
PHASE-1A ALLEY TRACT		**1.07**
PHASE-1B	A1B-1	0.32
	A1B-2	0.08
	A1B-3	0.08
	A1B-4	0.39
	A1B-5	0.23
PHASE-1B ALLEY TRACT		**1.10**
PHASE-2A	A2A-12	0.20
PHASE-2A ALLEY TRACT		**0.20**
PHASE-3B	A3B-11	0.20
PHASE-3B ALLEY TRACT		**0.20**
TOTAL:		**2.58**

DRAINAGE TRACTS

PHASE 1	SW1-1	28.91
PHASE-1 SUBTOTAL:		**28.91**
TOTAL:		**28.91**

OPEN SPACE TRACTS

PHASE	TRACT ID	ACREAGE
PHASE-2	OS2-3	0.30
PHASE-2 SUBTOTAL:		0.30
PHASE-2A	OS2A-2	0.81
	OS2A-4	0.15
	OS2A-5	0.19
PHASE-2A SUBTOTAL:		1.15
PHASE-3B	OS3B-1	1.36
PHASE-3B SUBTOTAL:		1.36
TOTAL:		2.81

LIFT STATION TRACTS

PHASE 1	LS1-1	0.06
PHASE-1 SUBTOTAL:		**0.06**

PARK TRACTS

PHASE-1	P1-3	0.30
PHASE-1 SUBTOTAL:		0.30
PHASE-1A	P1A-1	2.04
	P1A-14	0.76
	P1A-16	0.23
	P1A-17	0.12
	P1A-18	0.12
	P1A-19	0.07
	P1A-20	0.13
	P1A-22	0.17
	P1A-28	0.09
	P1A-13	0.07
PHASE-1A SUBTOTAL:		3.79
PHASE-1B	P1B-10	0.15
	P1B-11	0.22
	P1B-12	0.23
	P1B-15	0.07
	P1B-2	3.00
PHASE-1B SUBTOTAL:		3.67
PHASE-2A	P2A-23	0.11
PHASE-2A SUBTOTAL:		0.11
PHASE-2B	P2B-8	0.12
	P2B-9	0.13
PHASE-2B SUBTOTAL:		0.24
PHASE-3B	P3B-4	0.30
	P3B-5	0.15
	P3B-6	0.29
	P3B-7	0.17
PHASE-3B SUBTOTAL:		0.91
TOTAL:		**9.03**

DEVELOPMENT STANDARDS

	Character District	
	Neighborhood	**Transition**
Living Area		
Min. Living Area	1,200 sf	1,200 sf
Building and Floor Height		
Min. Building Height	NA	NA
Max. Building Height	Principal Building - 2 Stories Accessory Building - 1 Story	Principal Building - 3 Stories* Accessory Building - NA
Min. Additional Floor Height	NA	8 ft
Building Setbacks		
Min. Front/Street Side	15 ft	10 ft
Max. Front/Street Side	30 ft	20 ft
Min. Side	Single-Family Detached (Rear Load) - 5 ft Single-Family Detached (Front Load) - 5 ft	Single-Family Detached (Rear Load) - 5 ft Single-Family Detached (Front Load) - 5 ft
Max. Side	NA	50% Frontage Arterial & Primary Street
Min. Building Separation	Single-Family Detached (Rear Load) - 10 ft Single-Family Detached (Front Load) - 10 ft	Single-Family Detached (Rear Load) - 10 ft Single-Family Detached (Front Load) - 10 ft Apartment Building - 20 ft
Min. Rear (Alley)	5 ft	5 ft
Min. Rear (No Alley)	20 ft	20 ft
Density		
Min. Density	1 du/ac	5 du/ac
Max. Density	5 du/ac	10 (15 with bonus) du/ac
Open Space		
Min. Open Space	20%	15%

*One (1) additional floor above the permitted base height may be permitted for every 1,500 square feet of public open space provided per KPI Form-Based Code Section R.1.b.

PHASING

1. THE OVERALL KELLY PARK PROPERTY WILL BE CONSTRUCTED IN MULTIPLE PHASES. DEVELOPMENT MAY NOT BE SEQUENTIAL. THE NEEDED INFRASTRUCTURE SHALL BE INCLUDED SUCH THAT EACH PHASE MAY STAND ALONE.

SIGNAGE

1. ONSITE SIGNAGE WILL BE IN ACCORDANCE WITH THE MIXED USE KELLY PARK INTERCHANGE FORM-BASED CODE.

LANDSCAPE

1. LANDSCAPE MATERIALS WILL BE CHOSEN FROM THE FLORIDA FRIENDLY PLANT DATABASE (CENTRAL FLORIDA REGION).
2. A TWENTY-FIVE (25) FOOT BUFFER IS PROVIDED ADJACENT TO ONDICH ROAD. IN ACCORDANCE WITH THE CITY OF APOPKA LAND DEVELOPMENT CODE SEC. 5.2.5 - LANDSCAPING AND BUFFER STANDARDS, BUFFER TYPE C WILL BE PROVIDED BETWEEN THE FUTURE MULTI-FAMILY PARCEL AND EXISTING SINGLE-FAMILY DETACHED DWELLING ABUTTING LAND. NO OTHER PERIMETER BUFFERS ARE REQUIRED.

GARBAGE PICKUP

1. FRONT LOADED SINGLE FAMILY UNITS TO BE PICKED UP AT FRONT RIGHT OF WAY. REAR LOADED UNITS TO BE PICKED UP AT REAR ALLEY.

PARKING REQUIREMENTS

1. OFF-STREET PARKING WILL BE PROVIDED IN ACCORDANCE WITH THE MIXED USE KELLY PARK INTERCHANGE FORM-BASED CODE.

STREET LIGHTING

LIGHTING PHOTOMETRIC PLAN WILL BE PROVIDED AT THE TIME OF CONSTRUCTION PLAN SUBMITTAL. LIGHTING REQUIREMENTS SHALL MEET ALL APPLICABLE CITY OF APOPKA AND ELECTRIC PROVIDERS REGULATIONS AT THE TIME OF ANY CONSTRUCTION PLAN SUBMITTAL AND ANY SUBSEQUENT APPROVALS

SUSTAINABILITY

Per LDC section 5.11.4.A.1.B, residential developments of 30 or more dwelling units shall obtain a minimum of 4 points from the green building point system, Table 5.11.4.B. this development shall satisfy this requirements as follows

GREEN BUILDING STANDARD	POINTS EARNED	NOTES
Development as a traditional neighborhood planned development (TN-PD) district	0.75	Development is proposed as a block pattern traditional neighborhood
Use central air conditioners that are energy star qualified	0.50	All HVAC's installed on site will be energy star qualified
Use vegetation or vegetated structures to shade HVAC units	0.25	2 shrubs per A/C unit will be shown on the final landscape plans
Orient a minimum of 25 percent of residential dwelling units or lots in the development within 20 percent of east-west axis for maximum passive solar exposure	1.00	270 lots (30%) are oriented east west lots
Create a soil management plan for development site that promotes stormwater infiltration through improved organic matter content, reduced compaction levels, and increased infiltration capacity	0.50	The entire site is designed to drain to an on-site retention pond that will fully recover thought infiltration
Preserve large, non-exotic trees on site (large tree defined as 20 feet or greater in height and 24 inches or greater DBH)	1.00	A minimum of Large trees are being preserved. Please see landscape plans for the tree locations.
Install operable windows to allow for natural ventilation in the event of power failures	0.25	All windows will be operable
TOTAL	**4.25**	

OPEN SPACE & PARK REQUIREMENT TABLE

	PHASE-1	PHASE-1A	PHASE-1B	PHASE-2	PHASE-2A	PHASE-2B	PHASE-3B	Grand Total
Neighborhood Acreage	**67.72**	**28.11**	**25.57**	**1.84**	**27.92**	**14.79**	**19.80**	**185.75**
REQUIRED	13.54	5.62	5.11	0.37	5.58	2.96	3.96	37.15
PROPOSED	29.21	3.79	3.67	0.30	1.26	0.24	2.27	40.74
Transition Acreage	**0.00**	**3.07**	**0.07**	**0.00**	**0.00**	**0.00**	**0.00**	**3.15**
REQUIRED	0.00	0.46	0.01	0.00	0.00	0.00	0.00	0.47
PROPOSED	0.00	0.47	0.07	0.00	0.00	0.00	0.00	0.54
Total Net Acreages	**67.72**	**31.18**	**25.65**	**1.84**	**27.92**	**14.79**	**19.80**	**188.90**

1) Open Space Requirements
Neighborhood District = 20%
Transition District = 15%
2) Open Space and park tracts count towards open space requirements
3) Open Space requirements shall be met project wide. Surplus Acreage may carry over and meet future phase requirements.

Modifications

1. A Modification from the City of Apopka Mixed Use Kelly Park Interchange Form-Based Code Section G - District Size and Block Standards to allow for a block length of greater than 500 feet in the Neighborhood District. Based on the topographic constraints of the property, a curvilinear roadway network forms the basis of the project design, which limits the opportunity for a traditional grid block pattern. Pocket parks were added to the longer blocks to break up the streetscape.

2. A Modification from the City of Apopka Mixed Use Kelly Park Interchange Form-Based Code Section I - Building and Floor Height to allow for a first floor height minimum of 8' in lieu of 12' in the Transition District.

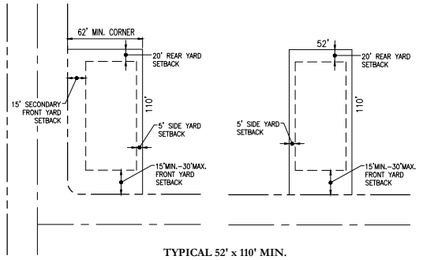
3. A Modification from the City of Apopka Land Development Code Appendix D – Development Design Guidelines Section 3.6 – Residential Landscaping to exempt lots less than 52' in width from the requirement to plant three (3) trees per lot. The tree planting requirement for lots less than 52' in width will be determined with approval of the landscape plan submitted with the Major Development Plan.

4. A Modification from the City of Apopka Mixed Use Kelly Park Interchange Form-Based Code Section D - Applicability and Process to expand the Neighborhood District boundary by 12.20 acres, which equates to 2,300 linear feet.

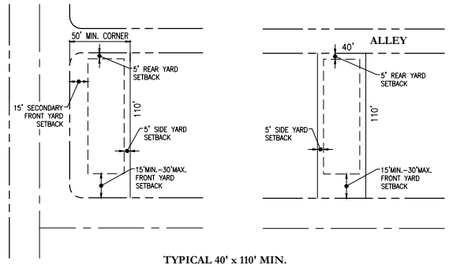
5. A Modification from the City of Apopka Mixed Use Kelly Park Interchange Form-Based Code Section R - Developments utilizing the bonus system or receiving the transfer of development rights shall not have any multi-family buildings located within 100 feet from a neighborhood character zone or single-family residentially-zoned property. Single-family buildings shall meet the setbacks specified in their respective character zone. The code only states "buildings" and does not distinguish the type of building. This modification differentiates between multi-family versus single-family buildings, and clarifies that the multi-family buildings will have a greater setback to residentially zoned properties. This will allow for consistency of setbacks throughout the Master Plan for the single-family buildings and still requires that the multi-family buildings provide a 100 foot buffer from single-family zoned properties that are located outside of the Master Plan boundary.

SITE DATA

Site Information	
Parcel I.D. #	11-20-27-0000-00-003
	11-20-27-0000-00-013
	11-20-27-0000-00-036
	11-20-27-0000-00-070
Current Zoning	T - Transition
Current FLU	Mixed Use
Proposed Zoning	Kelly Park Interchange - Mixed Use
Proposed Character District	Neighborhood & Transition
Land Summary (Acres)	
Gross Land Area	205.04 Acres
Neighborhood District	181.28 Acres
Transition District	23.76 Acres
Wetlands (Proposed for Impact)	0.08 Acres
Single-Family	670 Units
Multi-Family	300 Units
Proposed Units	970 Units



TYPICAL 52' x 110' MIN. LOT LAYOUT
N.T.S.



TYPICAL 40' x 110' MIN. LOT LAYOUT
N.T.S.

TYPICAL LOTS
N.T.S.

STUDENT GENERATION TABLE

			Generation Rate			
KPI District	Units	Type	ES	MS	HS	Total
Neighborhood	651	Single Family	0.178	0.094	0.133	264
Transition	19	Single Family	0.178	0.094	0.133	8
Transition	300	Multi-Family(Non High Rise)	0.141	0.065	0.08	86
					Project Total	**357**

SOURCE: ORANGE COUNTY PUBLIC SCHOOLS STUDENT GENERATION RATES EFFECTIVE JUNE 22, 2021.

NOTES
1. LOT AREAS, EASEMENT LINES AND TRACT AREAS ON THE FINAL PLAT MAY VARY FROM THAT SHOWN DUE TO FINAL ENGINEERING DESIGN CRITERIA AND CONSTRAINTS.
2. THIS COMMUNITY IS NOT PROPOSED TO BE GATED. ALL RIGHTS OF WAY SHALL BE PUBLIC.
3. SINGLE-FAMILY RESIDENTIAL ARCHITECTURE SHALL MEET THE INTENT OF KELLY PARK INTERCHANGE FORM-BASED CODE DEVELOPMENT DESIGN GUIDELINES.
4. PARKS SHALL HAVE ADEQUATE LIGHTING ON AUTOMATIC TIMERS WITHOUT PROJECTING A GLARE ONTO ADJACENT PROPERTIES.
5. THE PROJECT IS GOVERNED BY CAPACITY ENHANCEMENT AGREEMENT # APK-10-001. ANTICIPATED STUDENT GENERATION IS FOR THE PROPOSED DEVELOPMENT PROGRAM IS PROVIDED IN THE STUDENT GENERATION TABLE BELOW. AN ORANGE COUNTY PUBLIC SCHOOLS (OCPS) FORMAL DETERMINATION OF SCHOOL CAPACITY (APPLICATION ID: CMA-APK-22-002) HAS BEEN SUBMITTED AND IS CURRENTLY UNDER REVIEW.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N.T.S.

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:
CITY of APOPKA, FL

Sheet Title:
SITE DATA TABLES

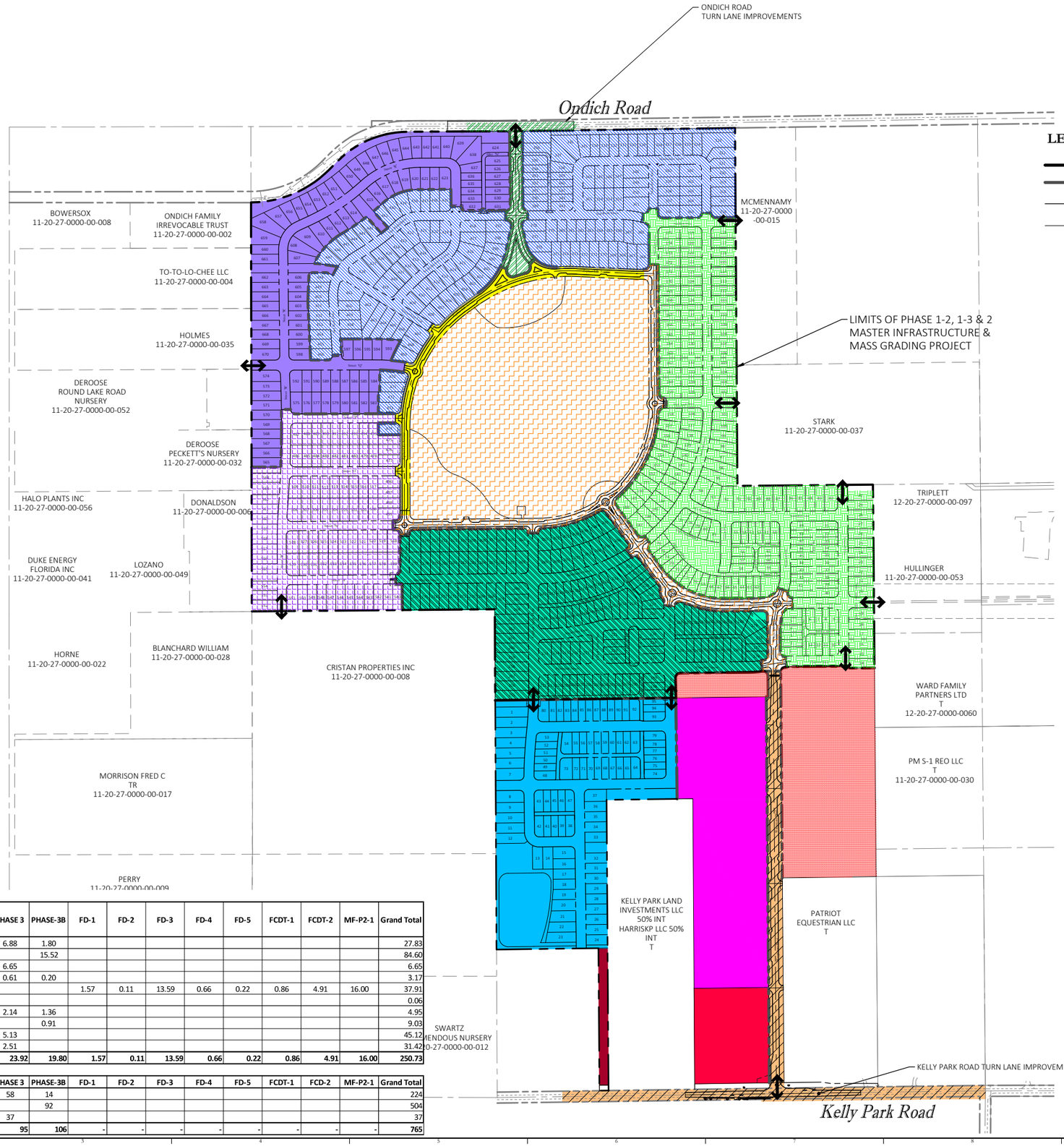
Sheet No.:
C1.01

Seal:
MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER
Marc D Stehli
MARC DANIEL STEHLI P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SDT



SITE DEVELOPMENT ACREAGES

Row Labels	PHASE-1-1\ PHASE-1-2\ PHASE 1-3	PHASE-1A	PHASE-1B	PHASE-2	PHASE-2A	PHASE-2B	PHASE 3	PHASE-3B	FD-1	FD-2	FD-3	FD-4	FD-5	FCDT-1	FCDT-2	MF-P2-1	Grand Total
40'X100' MIN. ALLEY LOTS		7.73	9.60		1.83		6.88	1.80									27.83
52'X110' MIN.		18.63	11.27		24.63	14.54		15.52									84.60
56'X110' MIN.							6.65										6.65
ALLEY TRACT		1.04	1.10		0.20		0.61	0.20									3.17
FUTURE DEVELOPMENT TRACT									1.57	0.11	13.59	0.66	0.22	0.86	4.91	16.00	37.91
LIFT STATION	0.06																0.06
OPEN SPACE				0.30	1.15		2.14	1.36									4.95
PARK	0.30	3.79	3.67		0.11	0.24		0.91									9.03
ROW	38.45			1.54			5.13										45.12
STORMWATER TRACT	28.91						2.51										31.42
Grand Total	**67.72**	**31.18**	**25.65**	**1.84**	**27.92**	**14.79**	**23.92**	**19.80**	**1.57**	**0.11**	**13.59**	**0.66**	**0.22**	**0.86**	**4.91**	**16.00**	**250.73**

UNITS COUNT

Type	PHASE-1-2	PHASE-1A	PHASE-1B	PHASE-2	PHASE-2A	PHASE-2B	PHASE 3	PHASE-3B	FD-1	FD-2	FD-3	FD-4	FD-5	FCDT-1	FCD-2	MF-P2-1	Grand Total
40'X100' MIN. ALLEY LOTS		64	74		14	0	58	14									224
52'X110' MIN.		111	66		145	90		92									504
56'X110' MIN.							37										37
Grand Total	**0**	**175**	**140**	**0**	**159**	**90**	**95**	**106**	-	-	-	-	-	-	-	-	**765**

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CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 300'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

OVERALL PHASING PLAN

Sheet No.:

C1.02

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

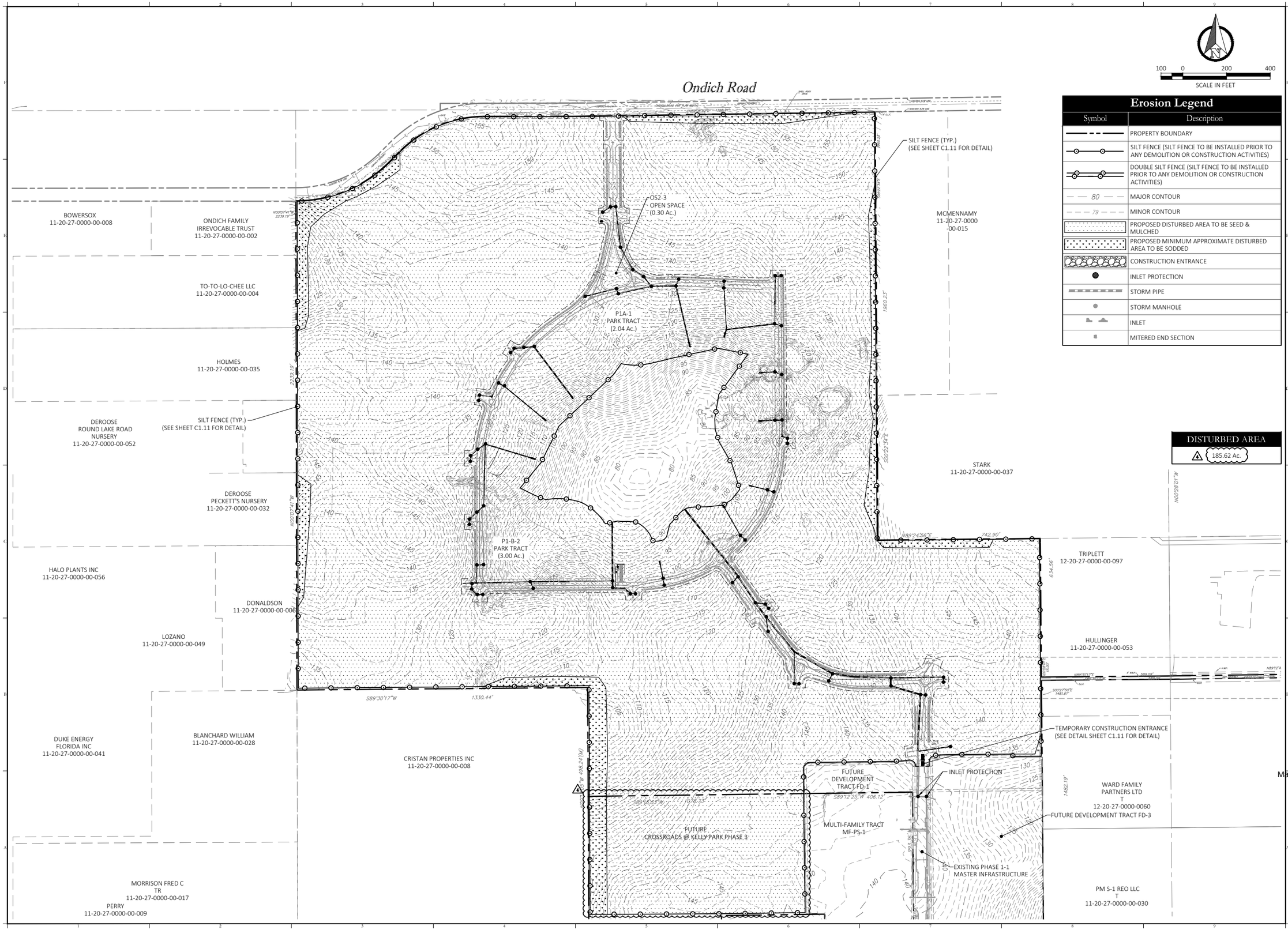
Marc D Stehli

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Key Map:



100 0 200 400
SCALE IN FEET

Erosion Legend

Symbol	Description
	PROPERTY BOUNDARY
	SILT FENCE (SILT FENCE TO BE INSTALLED PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITIES)
	DOUBLE SILT FENCE (SILT FENCE TO BE INSTALLED PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITIES)
80	MAJOR CONTOUR
79	MINOR CONTOUR
	PROPOSED DISTURBED AREA TO BE SEED & MULCHED
	PROPOSED MINIMUM APPROXIMATE DISTURBED AREA TO BE SODDED
	CONSTRUCTION ENTRANCE
	INLET PROTECTION
	STORM PIPE
	STORM MANHOLE
	INLET
	MITERED END SECTION

DISTURBED AREA

⚠4 185.62 Ac.

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APPROVED BY:	MDS
SCALE IN FEET:	1" = 200'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

EROSION CONTROL PLAN & DETAILS

Sheet No.:

C1.10

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 052781
DATE: August 7, 2023

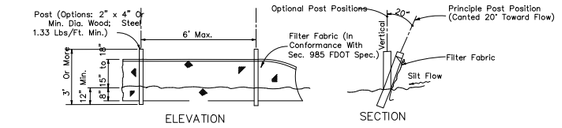
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SEED AND MULCH SPECIFICATIONS

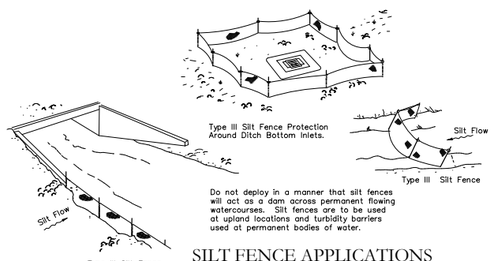
1.	WINTER (SEPTEMBER THROUGH JANUARY)	PER ACRE
	A. RYE GRASS	30 POUNDS
	B. BAHIA GRASS (90% GREEN OR BETTER)	70 POUNDS
	C. FERTILIZER 10-10-10	
	C.1. STAGE 1 (AT PLANTING)	400 POUNDS
	C.2. STAGE 2 (AT GERMINATION)	400 POUNDS
2.	SPRING (FEBRUARY THROUGH MARCH)	PER ACRE
	A. RYE GRASS	20 POUNDS
	B. BROWN TOP MILLET	20 POUNDS
	C. BAHIA GRASS (90% GREEN OR BETTER)	70 POUNDS
	D. FERTILIZER 10-10-10	
	D.1. STAGE 1 (AT PLANTING)	400 POUNDS
	D.2. STAGE 2 (AT GERMINATION)	400 POUNDS
3.	SUMMER (MARCH THROUGH AUGUST)	PER ACRE
	A. BROWN TOP MILLET	35 POUNDS
	B. BAHIA GRASS (90% GREEN OR BETTER)	70 POUNDS
	C. FERTILIZER 10-10-10	
	C.1. STAGE 1 (AT PLANTING)	400 POUNDS
	C.2. STAGE 2 (AT GERMINATION)	400 POUNDS



Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

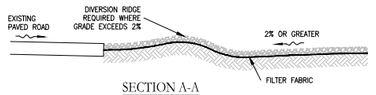
TYPE III SILT FENCE

N.T.S.

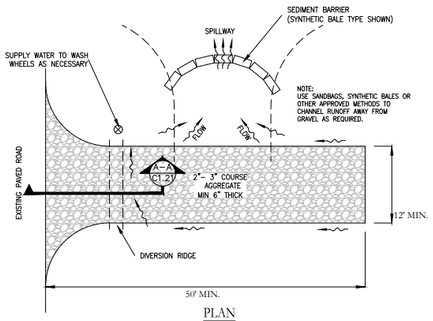


SILT FENCE APPLICATIONS

N.T.S.



SECTION A-A

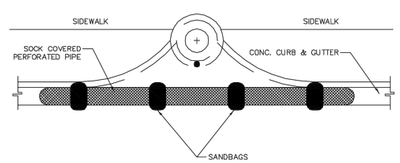


PLAN

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. TEMPORARY ACCESS TO BE CONSTRUCTED TO SUPPORT THE LOAD OF A FIRE APPARATUS.

TEMPORARY CONSTRUCTION ENTRANCE

N.T.S.



PLAN VIEW

NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC ARE FILLED WITH GRAVEL LAYERED AND PACKED TIGHTLY.
3. LEAVE A ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVED SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
5. AT THE END OF EACH WORKDAY, SWEEP OR SCRAPE UP SOIL TRACKED ONTO THE STREET.

CURB AND GUTTER SEDIMENT BARRIER

N.T.S.

EROSION CONTROL NOTES:

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO INSURE AGAINST POLLUTING, SILTING OR DISTURBING TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING SURFACE WATERS, SUCH MEASURES SHALL BE APPROVED BY THE PROJECT ENGINEER AND MAY INCLUDE, BUT NOT LIMITED TO, CONSTRUCTION OF TEMPORARY EROSION CONTROL STRUCTURES, SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, OR SILT BARRIERS.
2. SODDING OF DETENTION PONDS AND OTHER AREAS DESIGNATED FOR SOD, SHOULD BE ACCOMPLISHED WITHIN SEVEN (7) DAYS FOLLOWING COMPLETION OF GRADING TO MINIMIZE EROSION POTENTIAL.
3. AT A MINIMUM, THE RETENTION/DETENTION STORAGE AREA MUST BE EXCAVATED TO ROUGH GRADE PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA TO BE SERVED BY THOSE FACILITIES TO PREVENT REDUCTION IN STORAGE VOLUME AND PERCOLATION RATES. ALL ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE STORAGE AREA PRIOR TO FINAL GRADING AND STABILIZATION.
4. IF DURING CONSTRUCTION, THE PROPOSED EROSION CONTROL SYSTEM DOES NOT PERFORM SATISFACTORILY, ALTERNATIVES AND ADDITIONAL METHODS OF PROTECTION SHALL BE IMPLEMENTED BY THE CONTRACTOR IN ORDER TO COMPLY WITH S.J.R.W.M.D. AND CITY OF APOPKA EROSION PROTECTION STANDARDS.
5. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DETAILED EROSION CONTROL PLAN TO THE CITY OF APOPKA FOR REVIEW AND APPROVAL A MINIMUM OF 2 WORKING DAYS PRIOR TO THE PRECONSTRUCTION MEETING. THE EROSION CONTROL PLAN SHALL PROPOSE SILT SCREEN OR SYNTHETIC HAY BALES AND TURBIDITY BARRIERS, IN ACCORDANCE WITH THE CONSTRUCTION PLANS.
6. ALL PERMANENT EROSION CONTROL MEASURES SHALL BE COMPLETED WITHIN 7 DAYS OF FINAL GRADING. ALL TEMPORARY EROSION CONTROL SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE COMPLETED AND ESTABLISHED.
7. AT A MINIMUM SILT BARRIERS SHALL BE PLACED AS SHOWN ON THE CONSTRUCTION PLANS TO INSURE AGAINST POLLUTING, SILTING OR DISTURBING TO SUCH AN EXTENT TO CAUSE AN INCREASE IN TURBIDITY, OR DISCHARGE OF MATERIAL OFFSITE OR TO EXISTING WETLANDS. IF DURING CONSTRUCTION THE PROPOSED EROSION CONTROL SYSTEM DOES NOT PERFORM SATISFACTORY ALTERNATIVES AND ADDITIONAL MEASURES SHALL BE IMPLEMENTED BY THE CONTRACTOR IN ORDER TO COMPLY WITH CITY OF APOPKA AND S.J.R.W.M.D. EROSION PROTECTION STANDARDS.
8. CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL EROSION CONTROL COSTS, INCLUDING ANY COST ASSOCIATED WITH COMPLIANCE ISSUES AND ENFORCEMENT ACTIONS.
9. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND ADHERING TO A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTORS MANUAL PUBLISHED BY FDEP.
10. CONTRACTOR SHALL STAKE IN ALL SOD UNTIL SUCH TIME THAT GROUND IS STABILIZED IN ORDER TO PREVENT EROSION.
11. WORK SHALL BE DONE IN ACCORDANCE WITH EPA, FDEP, SJRWMD, AND CITY OF APOPKA BEST MANAGEMENT PRACTICES AND EROSION CONTROL SPECIFICATIONS.
12. THE SITE SHALL BE STABILIZED FOLLOWING GRUBBING, CLEARING, EARTH WORK OR MASS GRADING TO ESTABLISH A DENSE STAND OF GRASS, OR SHALL INCORPORATE OTHER APPROVED BEST MANAGEMENT PRACTICES, ON ALL DISTURBED AREAS IF DEVELOPMENT DOES NOT BEGIN WITHIN 7 DAYS. FINAL STABILIZATION SHALL ACHIEVE A MINIMUM OF 70% COVERAGE OF THE DISTURBED LAND AREA AND SHALL INCLUDE A MAINTENANCE PROGRAM TO ENSURE MINIMUM COVERAGE SURVIVAL AND OVERALL SITE STABILIZATION UNTIL SITE DEVELOPMENT.
13. IF DETERMINED TO BE NECESSARY DURING CONSTRUCTION A 6 FOOT HIGH SCREEN FENCE MAY BE REQUIRED ALONG ALL PROPERTY LINES.
14. LOCATION OF SILT FENCE IS GRAPHICAL IN NATURE. THE CONTRACTOR SHALL INSTALL SILT FENCE ONSITE AND IN LOCATION THAT ALLOWS FOR SITE GRADING. RELOCATION OF SILT FENCE, AS MAY BE NEEDED, SHALL BE THE CONTRACTORS RESPONSIBILITY AND PERFORMED AS PART OF THE PROJECT EXECUTION AT NO ADDITIONAL COST TO OWNER.

NPDES PERMIT

CONTRACTOR SHALL PREPARE AND SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION THE "NOTICE OF INTENT" AND "NOTICE OF TERMINATION" FOR "STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES," PER FLORIDA ADMINISTRATIVE CODE 62-621.300(4) IN ACCORDANCE WITH FDEP REQUIREMENTS. THE CONTRACTOR SHALL PREPARE AND SUBMIT WITH THE APPLICATION, AN APPROVED "STORMWATER POLLUTION PREVENTION PLAN" AND PERFORM/CERTIFY ALL INSPECTIONS AND RETAIN ALL. INSPECTION REPORTS AND DOCUMENTATION ON FILE AS REQUIRED FOR FDEP REVIEW. ALL FEES SHALL BE PAID BY THE CONTRACTOR, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PENALTIES OR FINES FDEP MAY LEVY FOR FAILURE TO COMPLY WITH THE PERMITTING REQUIREMENTS.

DUST ABATEMENT NOTE:

CONTRACTOR SHALL PROVIDE DUST CONTROL USING WATER TRUCKS FILLED WITH DEWATERED WATER AND USED AS NEEDED TO CONTROL DUST. THE WATERING TRUCK SHALL BE MAINTAINED ONSITE FOR IMMEDIATE DEPLOYMENT AT THE DISCRETION OF THE OPERATOR.

Key Map:

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Project Name:

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Jurisdiction:

CITY of APOPKA, FL

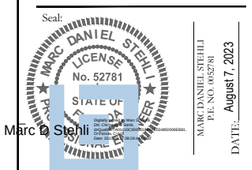
Sheet Title:

EROSION CONTROL PLAN & DETAILS

Sheet No.:

C1.11

Seal:

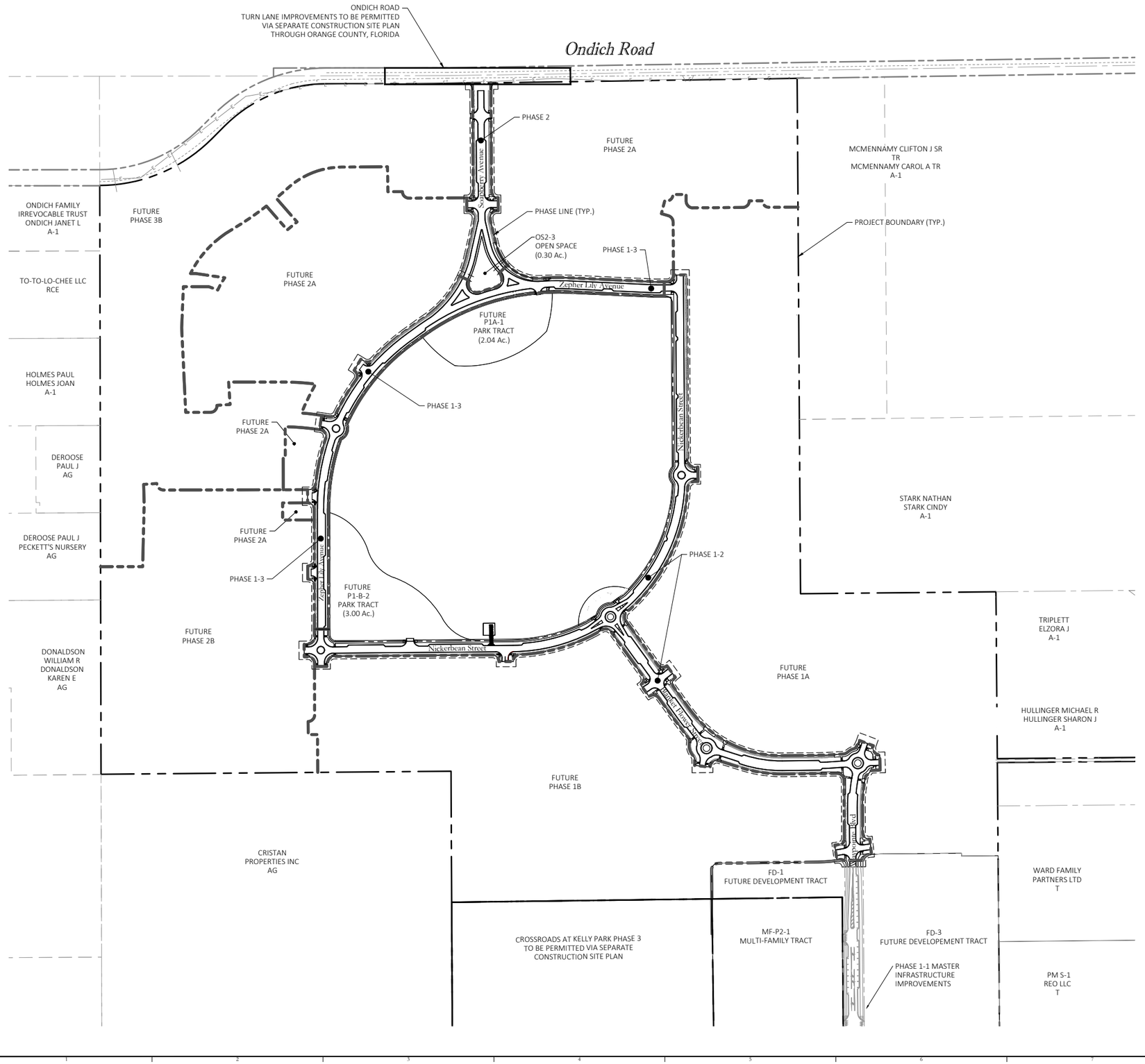


Marc D Stehli

POULOS & BENNETT

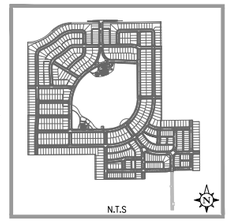
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Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-ECP



100 0 200 400
SCALE IN FEET

Key Map:



TRACT TABLE		
PARCEL #	DESCRIPTION	AREA
P1-LS1	LIFT STATION	0.06 Ac.
P1-3	PARK	0.28 Ac.
P1A-1(1)	PARK	2.04 Ac.
P1B-2(1)	PARK	3.00 Ac.
OS2-3	OPEN SPACE	0.30 Ac.
PHASE 1-2 ROW	RIGHT OF WAY	6.53 Ac.
PHASE 1-3 ROW	RIGHT OF WAY	3.21 Ac.
PHASE 2 ROW	RIGHT OF WAY	1.31 Ac.
SW-1	STORMWATER	28.89 Ac.
SUBTOTAL		45.62 Ac.
PHASE 1-1	RIGHT OF WAY	4.07 Ac.
MULTIFAMILY EAST	COMMERCIAL	15.16 Ac.
MULTIFAMILY WEST	COMMERCIAL	16.03 Ac.
COMMERCIAL	COMMERCIAL	4.91 Ac.
PHASE 1A	RESIDENTIAL	37.18 Ac.
PHASE 1B	RESIDENTIAL	29.05 Ac.
PHASE 2A	RESIDENTIAL	33.44 Ac.
PHASE 2B	RESIDENTIAL	18.75 Ac.
TOTAL 3B	RESIDENTIAL	23.42 Ac.
SUBTOTAL		227.63 Ac.
PHASE 3	RESIDENTIAL	23.92 Ac.
SUBTOTAL		251.55 Ac.
TOTAL		251.55 Ac.

NOTES:
1. SEPARATE CONSTRUCTION SITE PLAN SHALL BE PROCESSED FOR FUTURE PARK TRACTS.
2. ALL FUTURE RESIDENTIAL PHASES SHALL PROCESSED SEPARATE CONSTRUCTION SITE PLANS.

NO.	DATE:	DESCRIPTIONS:
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SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 200'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

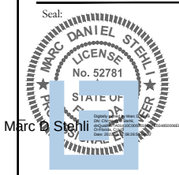
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MASTER SITE PLAN

Sheet No.:

C2.00

Seal:

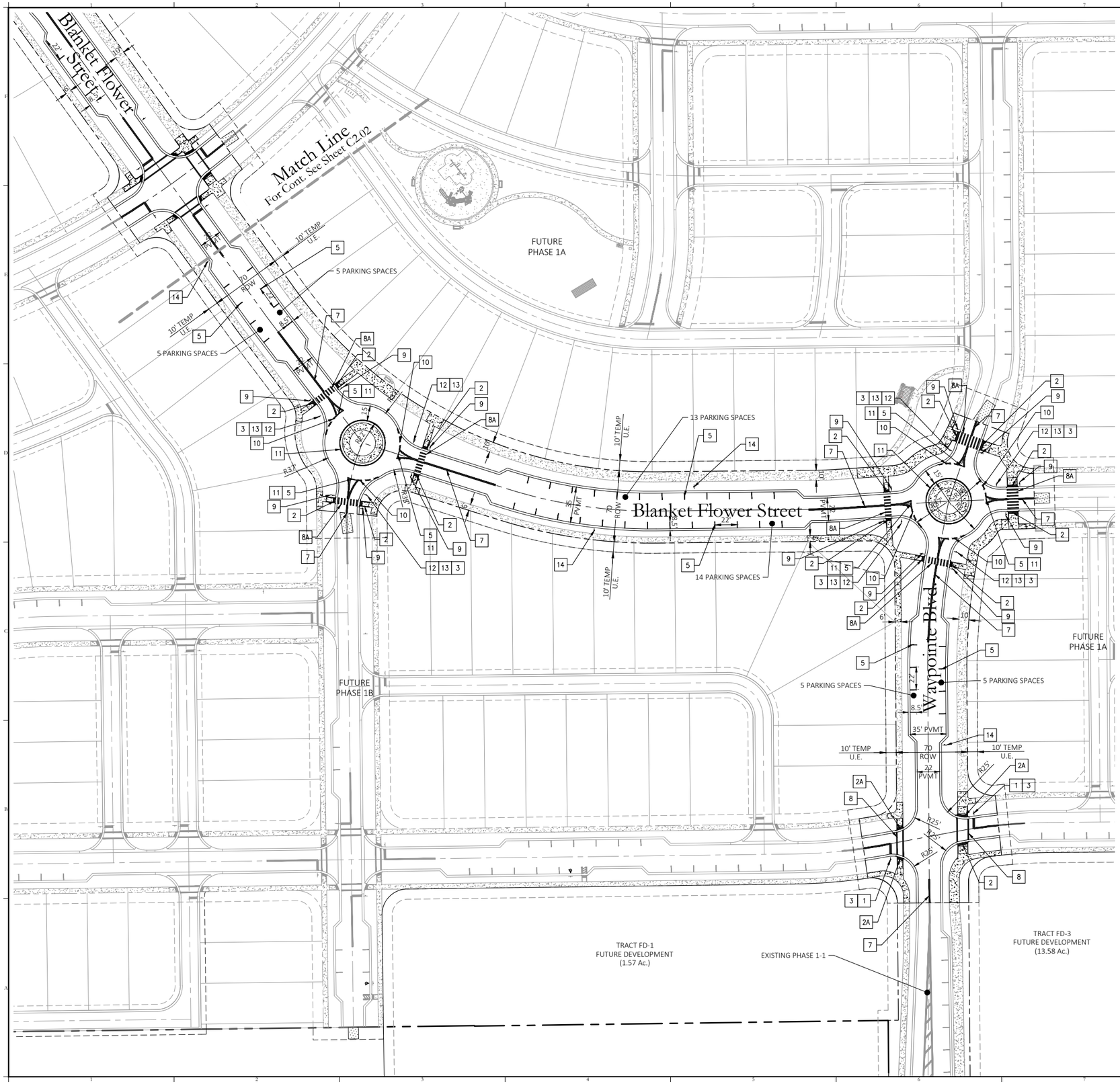


Marc D Stehli

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N

25 0 50 100

SCALE IN FEET

SIGN & STRIPING LEGEND:

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2A. CURB RAMP (CR-F) AND CAST IN PLACE DETECTABLE WARNINGS PER FDOT INDEX NO. 522-002
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4. SPEED LIMIT SIGN (25 MPH) (R2-1)
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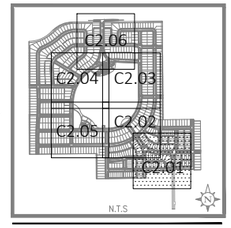
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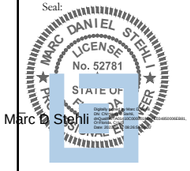
Sheet Title:

SIGNAGE, STRIPING & GEOMETRY PLAN

Sheet No.:

C2.01

Seal:



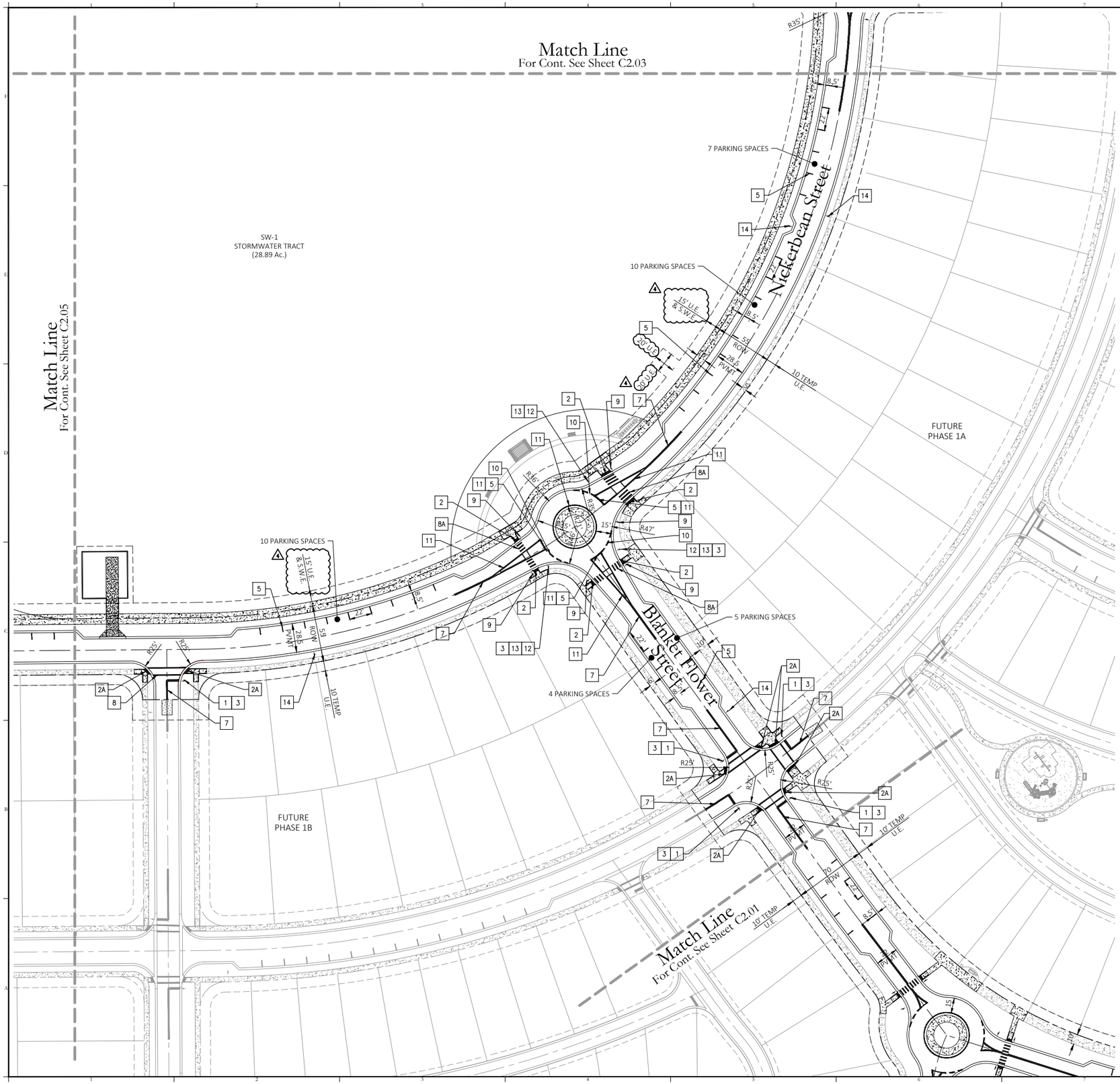
MARC DANIEL STEHLI
P.E. NO. 052781
DATE: August 7, 2023

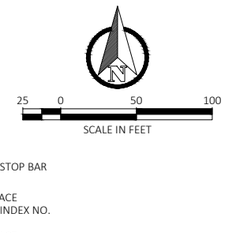
Marc D Stehli

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SUBMISSIONS/REVISIONS

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SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SIGNAGE, STRIPING & GEOMETRY PLAN

Sheet No.:

C2.02

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA REGISTERED ENGINEER

MARC DANIEL STEHLI P.E. NO. 052781

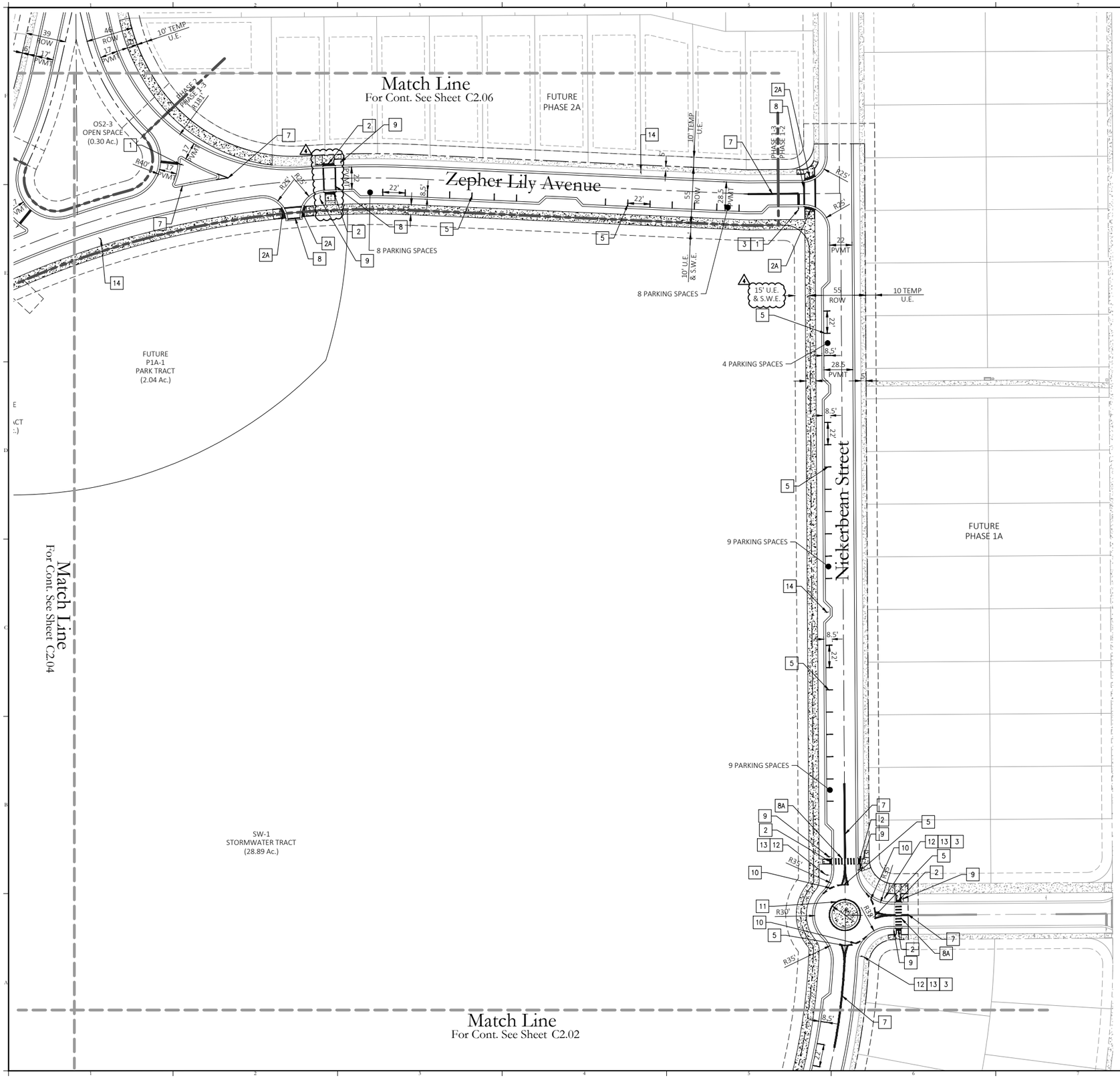
DATE: August 7, 2023

Marc D Stehli

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N

25 0 50 100

SCALE IN FEET

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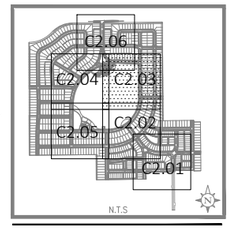
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Key Map:



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Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SIGNAGE, STRIPING & GEOMETRY PLAN

Sheet No.:

C2.03

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER

MARC DANIEL STEHLI
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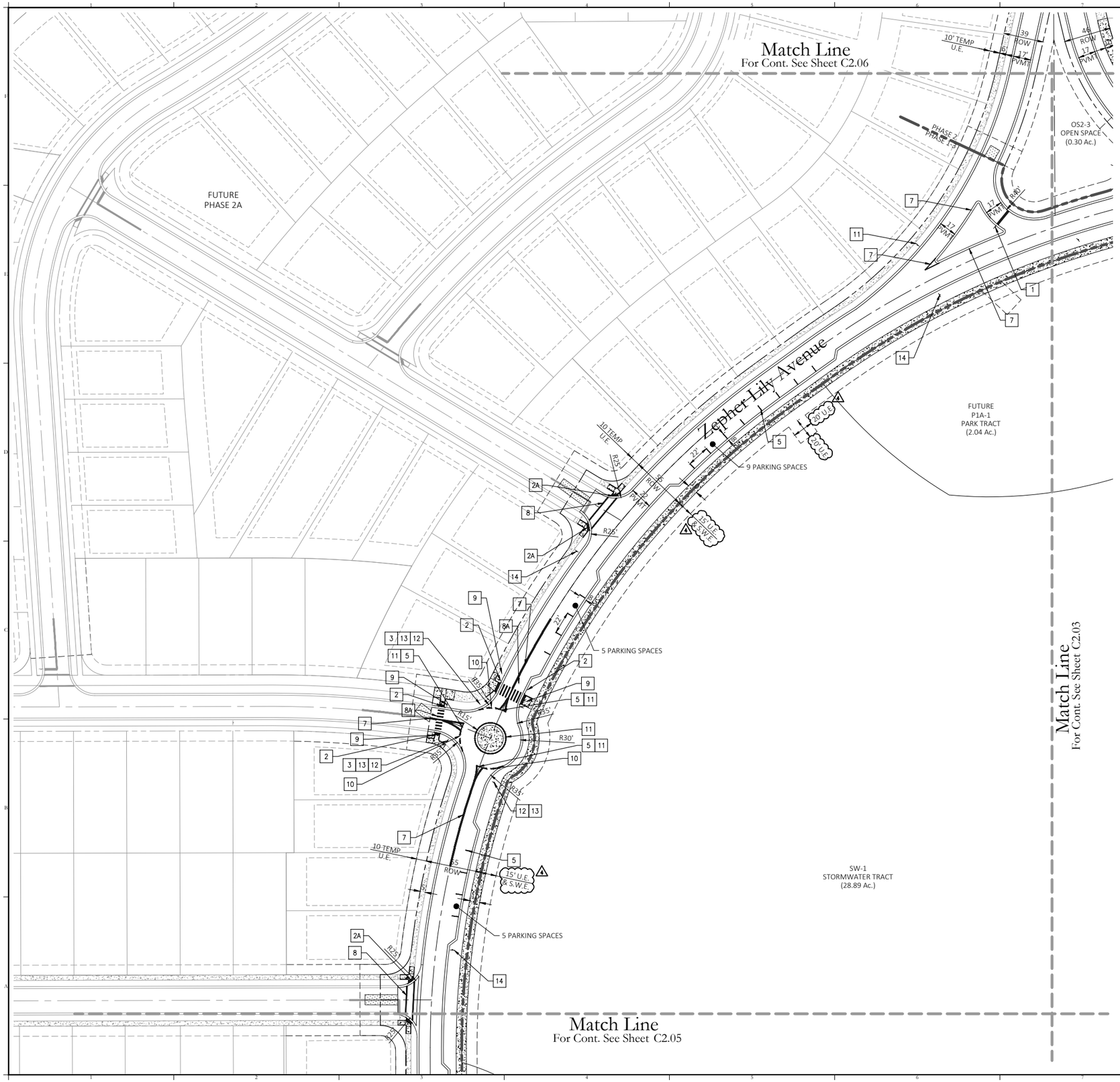
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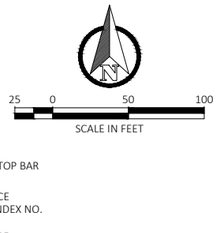
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Key Map:

N

25 0 50 100

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5. HANDICAP (HC) RAMPS AND DETECTABLE WARNING SURFACE WILL BE CONSTRUCTED AT THE STREET INTERSECTION(S) AND DRIVEWAY CONNECTION(S) TO COMPLY WITH THE AMERICANS WITH DISABILITY ACT (ADA) AND WILL MEET FDOT DESIGN STANDARDS.
6. STREET SIGNS POSTS TO BE SQUARE GALVANIZED STEEL AND HOLES SHALL BE CORED. 2 INCH SQUARE GALVANIZED POLES SHALL BE PRE-SCORED OR QUICK PUNCH.
7. ALL TRAFFIC CONTROL SIGNS WITHIN THE RIGHT-OF-WAY SHALL BE MANUFACTURED USING DIAMOND GRADE REFLECTIVE SHEETING. ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD AND CITY OF APOPKA CRITERIA FOR SIGN SIZE AND SHAPE AND LETTERING DIMENSIONS.
8. 10' UTILITY EASEMENT ADJACENT TO ROAD SHALL BE TEMPORARY WITH FINAL EASEMENT TO BE PROVIDED UPON PLATTING OF ADJACENT FUTURE PHASES.
9. SIDEWALKS AND CURB RAMPS AS SHOWN ARE REQUIRED FOR THE CITY OF APOPKA CERTIFICATION OF COMPLETION FOR INFRASTRUCTURE. CURB RAMPS SHALL BE PROVIDED AT EVERY INTERSECTION AND SIDEWALKS SHALL BE PROVIDED PER ROADWAY CROSS SECTIONS ADJACENT TO ALL RIGHT-OF-WAYS AND SHALL BE INSTALLED DURING VERTICAL CONSTRUCTION OF HOMES. HANDICAP RAMPS AT ALL INTERSECTIONS OF THE SIDEWALK AND PAVEMENT SHALL MEET CITY OF APOPKA AND A.D.A. SPECIFICATIONS.

NOTES:

1. DESIGN AND POSTED SPEED LIMITS ARE AS FOLLOWS:
   INTERNAL STREETS
   DESIGN SPEED: 30 MPH
   POSTED SPEED: 25 MPH

Sign Legend

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	W16-7P	24"	12"		31
12	R6-5P	30"	30"		20
13	R1-2	36"	36"	YIELD	20
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SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SIGNAGE, STRIPING & GEOMETRY PLAN

Sheet No.:

C2.04

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

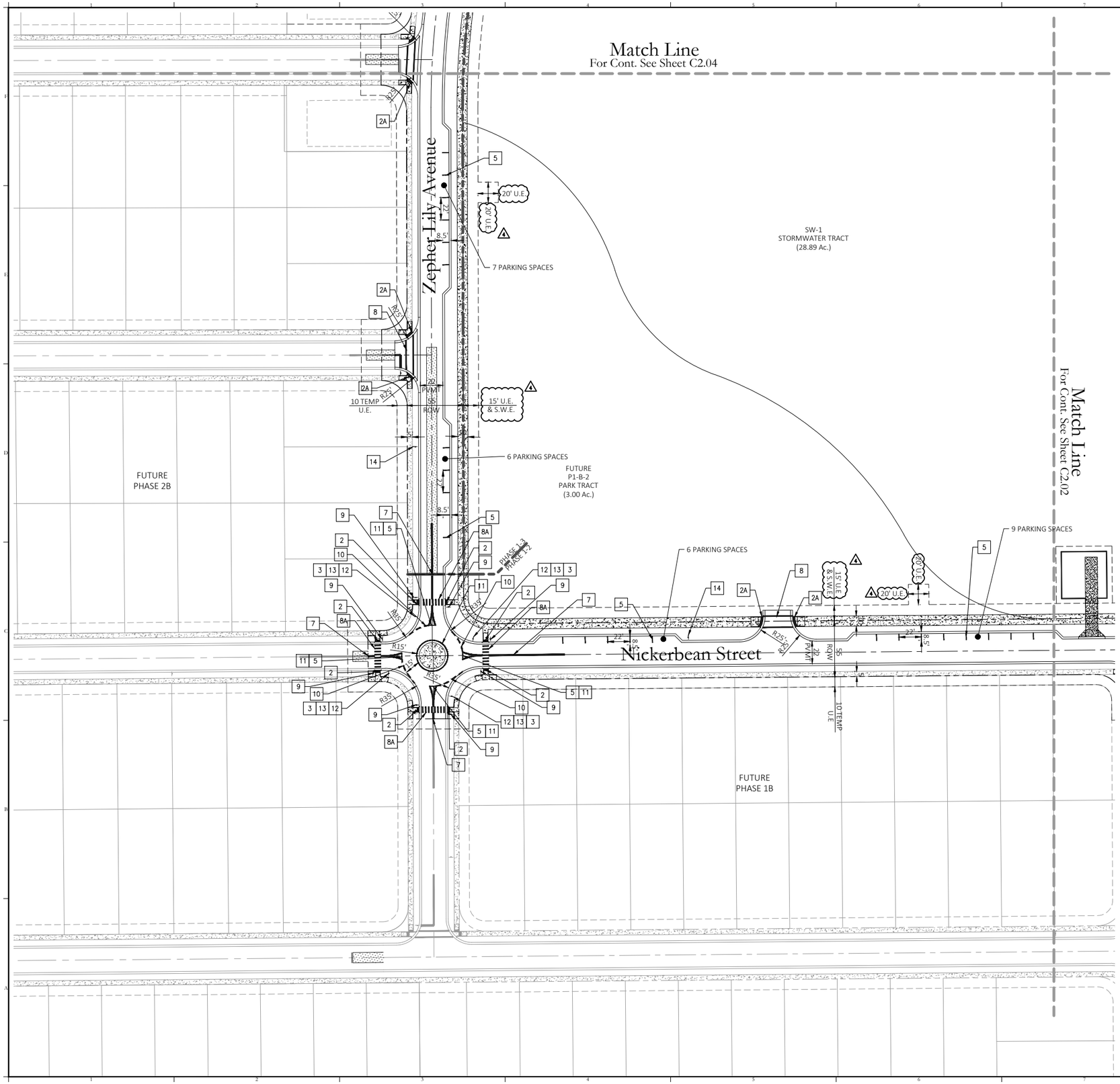
Marc D Stehli

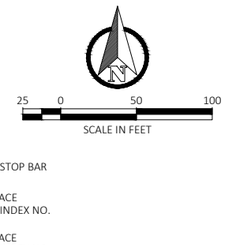
MARC DANIEL STEHLI
P.E. NO. 052781
DATE: August 7, 2023

POULOS & BENNETT

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Z:\2021\21-027 CALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SSP





SIGN & STRIPING LEGEND:

1. 30" STOP SIGN (R1-1) & 24" WHITE STOP BAR PER FDOT INDEX NO. 700-010
2. CURB RAMP (CR-E) AND CAST IN PLACE DETECTABLE WARNINGS PER FDOT INDEX NO. 522-002
2A. CURB RAMP (CR-F) AND CAST IN PLACE DETECTABLE WARNINGS PER FDOT INDEX NO. 522-002
3. STREET NAME SIGN (D3-1)
4. SPEED LIMIT SIGN (25 MPH) (R2-1)
5. 6" SOLID WHITE PER FDOT INDEX NO. 711-001
6. TURN LANE ARROW PER FDOT INDEX NO. 711-001
7. 6" SOLID DOUBLE YELLOW PER FDOT INDEX NO. 711-002
8. SIDEWALK STANDARD CROSSWALK, 6' AND 10' PER FDOT INDEX 711-001
8A. SPECIAL EMPHASIS CROSSWALK, 6' AND 10' PER FDOT INDEX 711-001
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10. 12" WHITE SKIP 2' LONG - 2' SKIP PER FDOT INDEX NO. 711-001
11. 6" SOLID YELLOW PER FDOT INDEX NO. 711-001
12. ROUNDABOUT CIRCULATION PLAQUE (R6-5P)
13. YIELD SIGN (R1-2)
14. PEDESTRIAN SIGN (W11-2) AND AHEAD PLAQUE (W16-9P)

NOTES:
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Jurisdiction:

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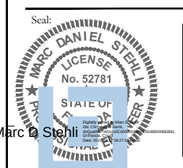
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SIGNAGE, STRIPING & GEOMETRY PLAN

Sheet No.:

C2.05

Seal:



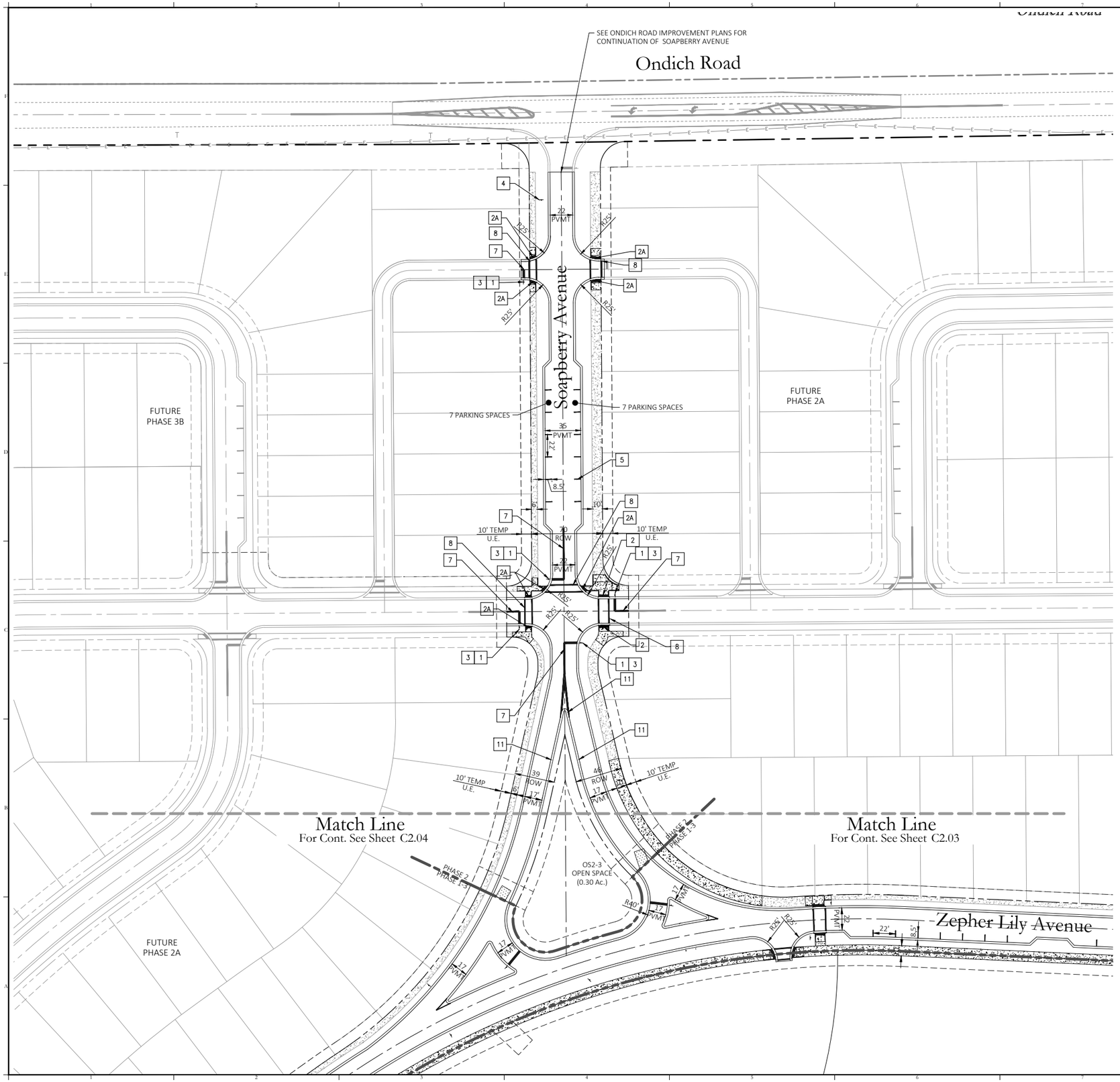
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Marc D Stehli

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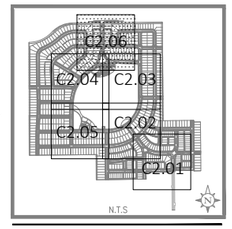
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Key Map:



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Jurisdiction:

CITY of APOPKA, FL

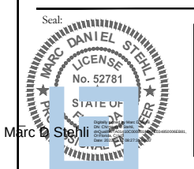
Sheet Title:

SIGNAGE, STRIPING & GEOMETRY PLAN

Sheet No.:

C2.06

Seal:



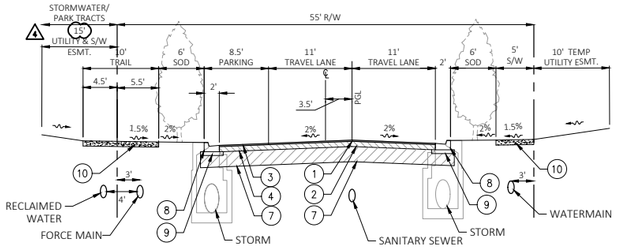
MARC DANIEL STEHLI
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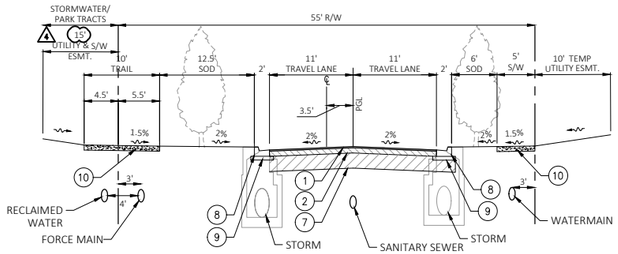


A TYPICAL ROAD SECTION WITH PARKING (55' ROW)

N.T.S.

1. STREET TREES SHALL NOT BE ROOT AGGRESSIVE AND SHALL BE INSTALLED WITH ROOT BARRIERS TO PREVENT ROOTS FROM ADVERSELY AFFECTING UTILITIES, CURBS AND/OR SIDEWALK
2. HOA DOCUMENTS SHALL INDICATE THAT THE HOA IS RESPONSIBLE FOR MAINTENANCE OF STREET TREES
3. PARKING SPACE STRIPING WITHIN CITY MAINTAINED PUBLIC RIGHT OF WAY SHALL BE MAINTAINED BY THE HOA/CDD
4. PARKING AROUND THE CENTRAL OPEN SPACE WILL BE DEDICATED ON-STREET PARKING.
5. 10' SIDEWALK CAN MEANDER WITHIN RIGHT-OF-WAY AND STORMWATER/PARK TRACTS.
6. A PERMANENT 10' UTILITY EASEMENT WILL BE PROVIDED WITH THE PLATTING OF EACH FUTURE RESIDENTIAL PHASE TO REPLACE THE TEMPORARY 10' UTILITY EASEMENT.

4 7. CONTRACTOR SHALL REFERENCE GEOTECHNICAL SHEETS (C3.10-C3.20) AND OVER EXCAVATION PLAN (C3.21) TO IDENTIFY LIMITS OF LOW PERMEABLE SOILS TO BE OVER EXCAVATED AND BACKFILLED. SEE U.E.S. REPORT NO. 1919910 DATED JANUARY 27, 2022 FOR RECOMMENDATIONS AND SPECIFICATIONS. CONTRACTOR SHALL RETAIN PROJECT GEOTECHINCAL ENGINEER TO DEFINE LIMITS OF OVER EXCAVATION DURING CONSTRUCTION. GEOTECHNICAL TESTING REPORTS AT 100' O.C. INTERVALS SHALL BE PROVIDED TO E.O.R. PRIOR TO PLACING BASE MATERIAL.

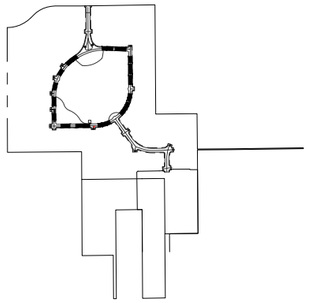


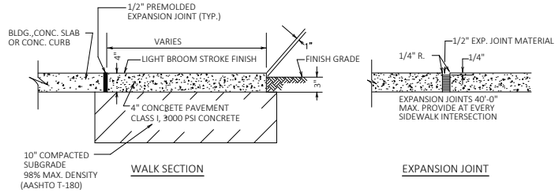
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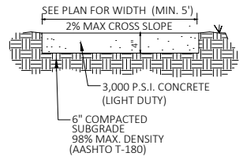
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SIDEWALK JOINT DETAIL

N.T.S.



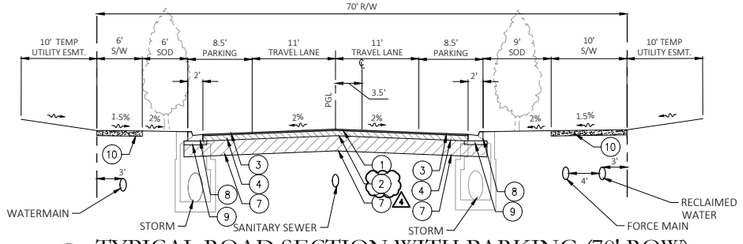
SIDEWALK DETAIL

NTS

Pavement Legend	
Symbol Id.	Description
1	2.5" (IN.) SP ASPHALT. (1.5" (IN.) SP-12.5 TOPPED WITH 1" (IN.) SP-9.5).
2	10" (IN.) LIMEROCK BASE, COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 100. ALTERNATIVELY, RECYCLED CONCRETE AGGREGATE (RCA) MAY BE USED. COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 150. MATERIAL SHALL BE SOURCED FROM AN FDOT APPROVED SUPPLIER.
3	1" (IN.) SP-9.5
4	6" (IN.) LIMEROCK BASE, COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 100. ALTERNATIVELY, RECYCLED CONCRETE AGGREGATE (RCA) MAY BE USED. COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 150. MATERIAL SHALL BE SOURCED FROM AN FDOT APPROVED SUPPLIER.
5	1.50" (IN.) TYPE SP-9.5 ASPHALT (SEE NOTE 1)
6	8" (IN.) LIMEROCK BASE, COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 100. ALTERNATIVELY, RECYCLED CONCRETE AGGREGATE (RCA) MAY BE USED. COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 150. MATERIAL SHALL BE SOURCED FROM AN FDOT APPROVED SUPPLIER.
7	12" (IN.) COMPACTED SUBGRADE TO 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) VALUE. THE UPPER 6" (IN.) OF SUBGRADE SHALL BE STABILIZED TO A MIN. LBR OF 40 AS SPECIFIED BY FDOT.
8	TYPE 'F' CONC. CURB & GUTTER
9	6" (IN.) STABILIZED SUBGRADE IN CURB AREA TO EXTEND 12" (IN.) EACH SIDE TO LBR 40.
10	4" (IN.) THICK CONC. SIDEWALK (3000 P.S.I.)
11	6" (IN.) THICK CONC. SIDEWALK (3000 P.S.I.)
12	MIAMI CURB
13	TYPE 'RA' CONC. CURB & GUTTER

NOTES:

1. ASPHALT MIX WILL REQUIRE A MIX DESIGN APPROVAL BY CITY OF APOPKA.
2. THE ABOVE PAVEMENT THICKNESS IS THE MINIMUM REQUIRED THICKNESS. CONTRACTORS SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT WHERE TESTING RESULTS DO NOT MEET THE MINIMUM REQUIRED THICKNESS.
3. CONTRACTOR SHALL INSTALL A 2' STRIP OF SOD ALONG THE BACK OF ALL ROADWAY CURBING. SEE LANDSCAPE PLANS FOR ADDITIONAL TREATMENT WITHIN RIGHT-OF-WAY.
4. AT THE TIME OF PLATTING A 10'/15' WIDE UTILITY EASEMENT WILL BE PROVIDED ADJACENT TO ALL RIGHT-OF-WAY.
5. SEE UNIVERSAL ENGINEERING SCIENCES REPORT NO. 1919910 DATED JANUARY 27, 2022 FOR PAVEMENT RECOMMENDATIONS.

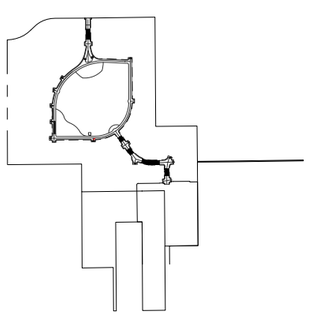


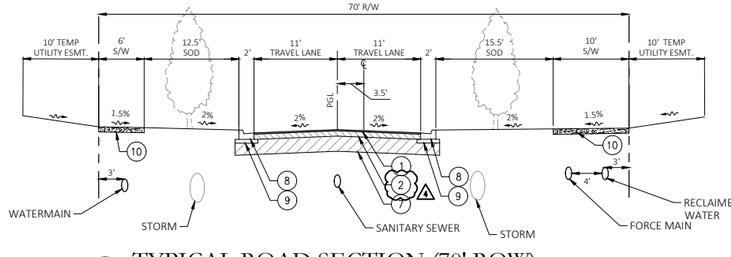
C TYPICAL ROAD SECTION WITH PARKING (70' ROW)

N.T.S.

1. STREET TREES SHALL NOT BE ROOT AGGRESSIVE AND SHALL BE INSTALLED WITH ROOT BARRIERS TO PREVENT ROOTS FROM ADVERSELY AFFECTING UTILITIES, CURBS AND/OR SIDEWALK
2. HOA DOCUMENTS SHALL INDICATE THAT THE HOA IS RESPONSIBLE FOR MAINTENANCE OF STREET TREES
3. PARKING SPACE STRIPING WITHIN CITY MAINTAINED PUBLIC RIGHT OF WAY SHALL BE MAINTAINED BY THE HOA/CDD
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4 5. CONTRACTOR SHALL REFERENCE GEOTECHNICAL SHEETS (C3.10-C3.20) AND OVER EXCAVATION PLAN (C3.21) TO IDENTIFY LIMITS OF LOW PERMEABLE SOILS TO BE OVER EXCAVATED AND BACKFILLED. SEE U.E.S. REPORT NO. 1919910 DATED JANUARY 27, 2022 FOR RECOMMENDATIONS AND SPECIFICATIONS. CONTRACTOR SHALL RETAIN PROJECT GEOTECHINCAL ENGINEER TO DEFINE LIMITS OF OVER EXCAVATION DURING CONSTRUCTION. GEOTECHNICAL TESTING REPORTS AT 100' O.C. INTERVALS SHALL BE PROVIDED TO E.O.R. PRIOR TO PLACING BASE MATERIAL.
6. SLOPE OF PARKING MAY VARY. SEE DETAILED PARKING GRADING ON GRADING AND DRAINAGE PLAN.



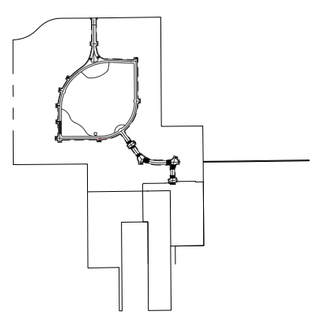


D TYPICAL ROAD SECTION (70' ROW)

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Key Map:

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2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	As Shown

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

TYPICAL ROAD SECTIONS

Sheet No.:

C3.00

Seal:

MARC DANIEL STEHLI
LICENSE
No. 52781
STATE OF FLORIDA
PROFESSIONAL ENGINEER

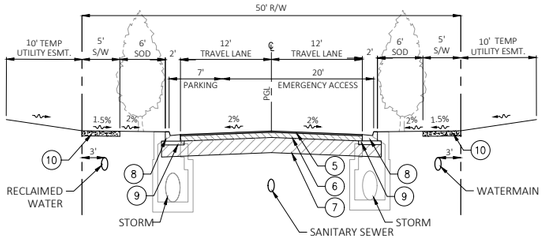
Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

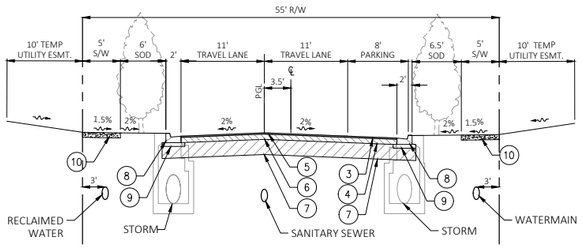
Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CIVIL\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-TRS



E TYPICAL ROAD SECTION (50' ROW)

N.T.S.

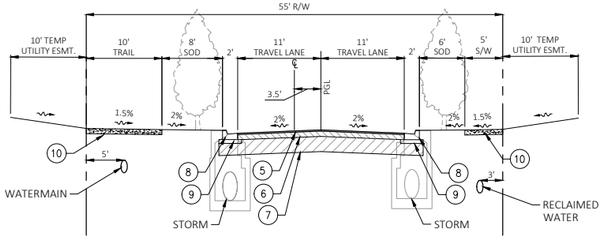
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F TYPICAL ROAD SECTION (55' ROW)

N.T.S.

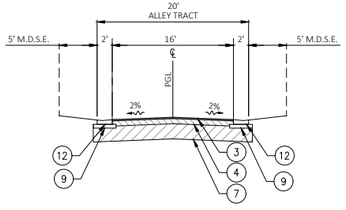
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G TYPICAL ROAD SECTION (55' ROW)

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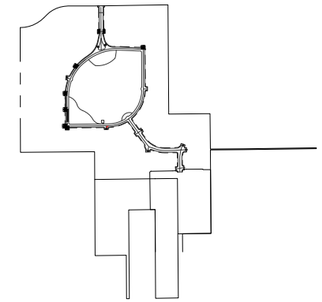
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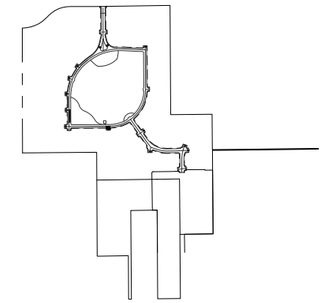


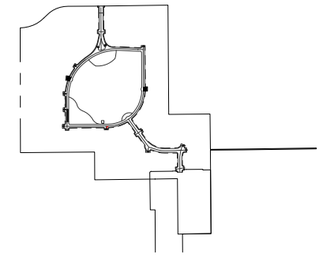
H TYPICAL ALLEY SECTION WITHOUT UTILITIES

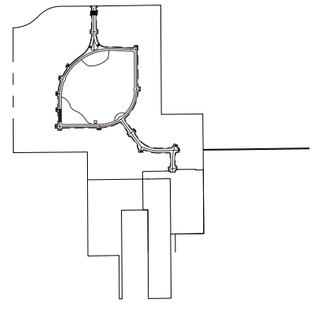
N.T.S.

1. NO PUBLIC UTILITIES PROPOSED WITHIN ALLEYS
2. NO PARKING TO BE POSTED
3. 5' MAINTENANCE, DRAINAGE AND SIGNAGE EASEMENT SHALL BE DEDICATED TO THE HOA/CDD
4. ALLEY TRACT SHALL BE PROPERTY OWNER AND MAINTAINED BY THE CITY OF APOPKA
5. CONTRACTOR SHALL REFERENCE GEOTECHNICAL SHEETS (C3.10-C3.20) AND OVER EXCAVATION PLAN (C3.21) TO IDENTIFY LIMITS OF LOW PERMEABLE SOILS TO BE OVER EXCAVATED AND BACKFILLED. SEE U.E.S. REPORT NO. 1919910 DATED JANUARY 27, 2022 FOR RECOMMENDATIONS AND SPECIFICATIONS. CONTRACTOR SHALL RETAIN PROJECT GEOTECHINCAL ENGINEER TO DEFINE LIMITS OF OVER EXCAVATION DURING CONSTRUCTION. GEOTECHNICAL TESTING REPORTS AT 100' O.C. INTERVALS SHALL BE PROVIDED TO E.O.R. PRIOR TO PLACING BASE MATERIAL.









Pavement Legend

Symbol Id.	Description
1	2.5" (IN.) SP ASPHALT. (1.5" (IN.) SP-12.5 TOPPED WITH 1" (IN.) SP-9.5).
2	10" (IN.) LIMEROCK BASE, COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 100. ALTERNATIVELY, RECYCLED CONCRETE AGGREGATE (RCA) MAY BE USED. COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 150. MATERIAL SHALL BE SOURCED FROM AN FDOT APPROVED SUPPLIER.
3	1" (IN.) SP-9.5
4	6" (IN.) LIMEROCK BASE, COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 100. ALTERNATIVELY, RECYCLED CONCRETE AGGREGATE (RCA) MAY BE USED. COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 150. MATERIAL SHALL BE SOURCED FROM AN FDOT APPROVED SUPPLIER.
5	1.50" (IN.) TYPE SP-9.5 ASPHALT (SEE NOTE 1)
6	8" (IN.) LIMEROCK BASE, COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 100. ALTERNATIVELY, RECYCLED CONCRETE AGGREGATE (RCA) MAY BE USED. COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 150. MATERIAL SHALL BE SOURCED FROM AN FDOT APPROVED SUPPLIER.
7	12" (IN.) COMPACTED SUBGRADE TO 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) VALUE. THE UPPER 6" (IN.) OF SUBGRADE SHALL BE STABILIZED TO A MIN. LBR OF 40 AS SPECIFIED BY FDOT.
8	TYPE 'F' CONC. CURB & GUTTER
9	6" (IN.) STABILIZED SUBGRADE IN CURB AREA TO EXTEND 12" (IN.) EACH SIDE TO LBR 40.
10	4" (IN.) THICK CONC. SIDEWALK (3000 P.S.I.)
11	6" (IN.) THICK CONC. SIDEWALK (3000 P.S.I.)
12	MIAMI CURB
13	TYPE 'RA' CONC. CURB & GUTTER

NOTES:

1. ASPHALT MIX WILL REQUIRE A MIX DESIGN APPROVAL BY CITY OF APOPKA.
2. THE ABOVE PAVEMENT THICKNESS IS THE MINIMUM REQUIRED THICKNESS. CONTRACTORS SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT WHERE TESTING RESULTS DO NOT MEET THE MINIMUM REQUIRED THICKNESS.
3. CONTRACTOR SHALL INSTALL A 2' STRIP OF SOD ALONG THE BACK OF ALL ROADWAY CURBING. SEE LANDSCAPE PLANS FOR ADDITIONAL TREATMENT WITHIN RIGHT-OF-WAY.
4. AT THE TIME OF PLATTING A 10'/15' WIDE UTILITY EASEMENT WILL BE PROVIDED ADJACENT TO ALL RIGHT-OF-WAY.
5. SEE UNIVERSAL ENGINEERING SCIENCES REPORT NO. 1919910 DATED JANUARY 27, 2022 FOR PAVEMENT RECOMMENDATIONS.

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CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

TYPICAL ROAD SECTIONS

Sheet No.:

C3.01

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

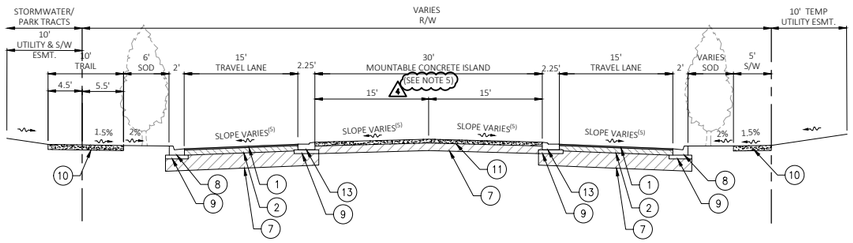
Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-TRS



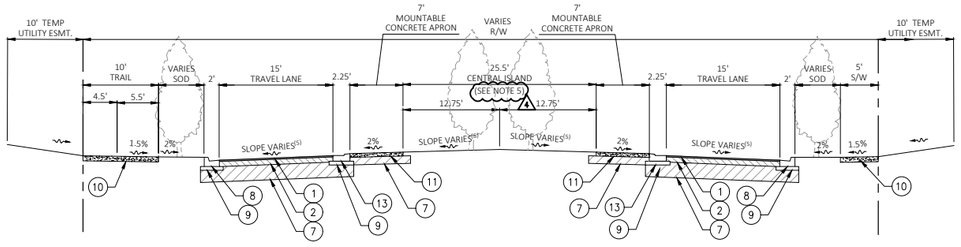
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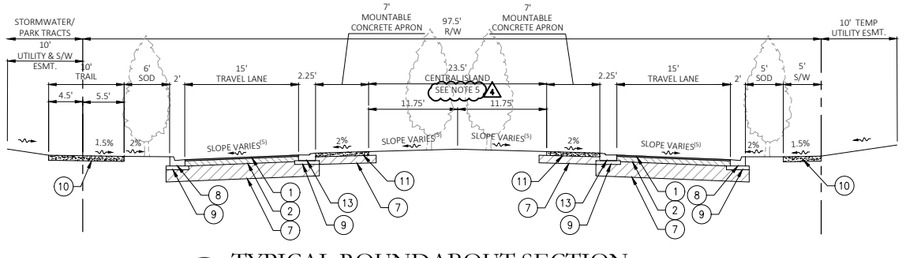
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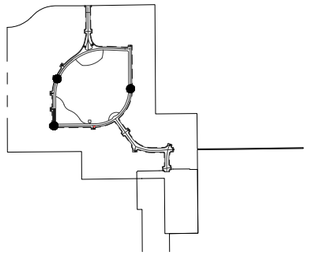
K TYPICAL ROUNDABOUT SECTION

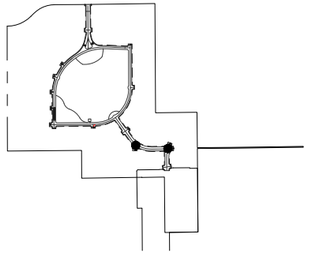
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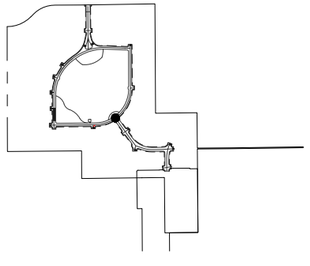
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4	6" (IN.) LIMEROCK BASE, COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 100. ALTERNATIVELY, RECYCLED CONCRETE AGGREGATE (RCA) MAY BE USED. COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 150. MATERIAL SHALL BE SOURCED FROM AN FDOT APPROVED SUPPLIER.
5	1.50" (IN.) TYPE SP-9.5 ASPHALT (SEE NOTE 1)
6	8" (IN.) LIMEROCK BASE, COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 100. ALTERNATIVELY, RECYCLED CONCRETE AGGREGATE (RCA) MAY BE USED. COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY WITH A MINIMUM LBR OF 150. MATERIAL SHALL BE SOURCED FROM AN FDOT APPROVED SUPPLIER.
7	12" (IN.) COMPACTED SUBGRADE TO 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) VALUE. THE UPPER 6" (IN.) OF SUBGRADE SHALL BE STABILIZED TO A MIN. LBR OF 40 AS SPECIFIED BY FDOT.
8	TYPE 'F' CONC. CURB & GUTTER
9	6" (IN.) STABILIZED SUBGRADE IN CURB AREA TO EXTEND 12" (IN.) EACH SIDE TO LBR 40.
10	4" (IN.) THICK CONC. SIDEWALK (3000 P.S.I.)
11	6" (IN.) THICK CONC. SIDEWALK (3000 P.S.I.)
12	MIAMI CURB
13	TYPE 'RA' CONC. CURB & GUTTER

NOTES:

1. ASPHALT MIX WILL REQUIRE A MIX DESIGN APPROVAL BY CITY OF APOPKA.
2. THE ABOVE PAVEMENT THICKNESS IS THE MINIMUM REQUIRED THICKNESS. CONTRACTORS SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT WHERE TESTING RESULTS DO NOT MEET THE MINIMUM REQUIRED THICKNESS.
3. CONTRACTOR SHALL INSTALL A 2' STRIP OF SOD ALONG THE BACK OF ALL ROADWAY CURBING. SEE LANDSCAPE PLANS FOR ADDITIONAL TREATMENT WITHIN RIGHT-OF-WAY.
4. AT THE TIME OF PLATTING A 10'/15' WIDE UTILITY EASEMENT WILL BE PROVIDED ADJACENT TO ALL RIGHT-OF-WAY.
5. SEE UNIVERSAL ENGINEERING SCIENCES REPORT NO. 1919910 DATED JANUARY 27, 2022 FOR PAVEMENT RECOMMENDATIONS.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	As Shown

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

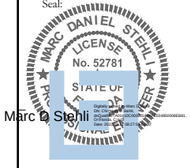
Sheet Title:

TYPICAL ROAD SECTIONS

Sheet No.:

C3.02

Seal:



MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

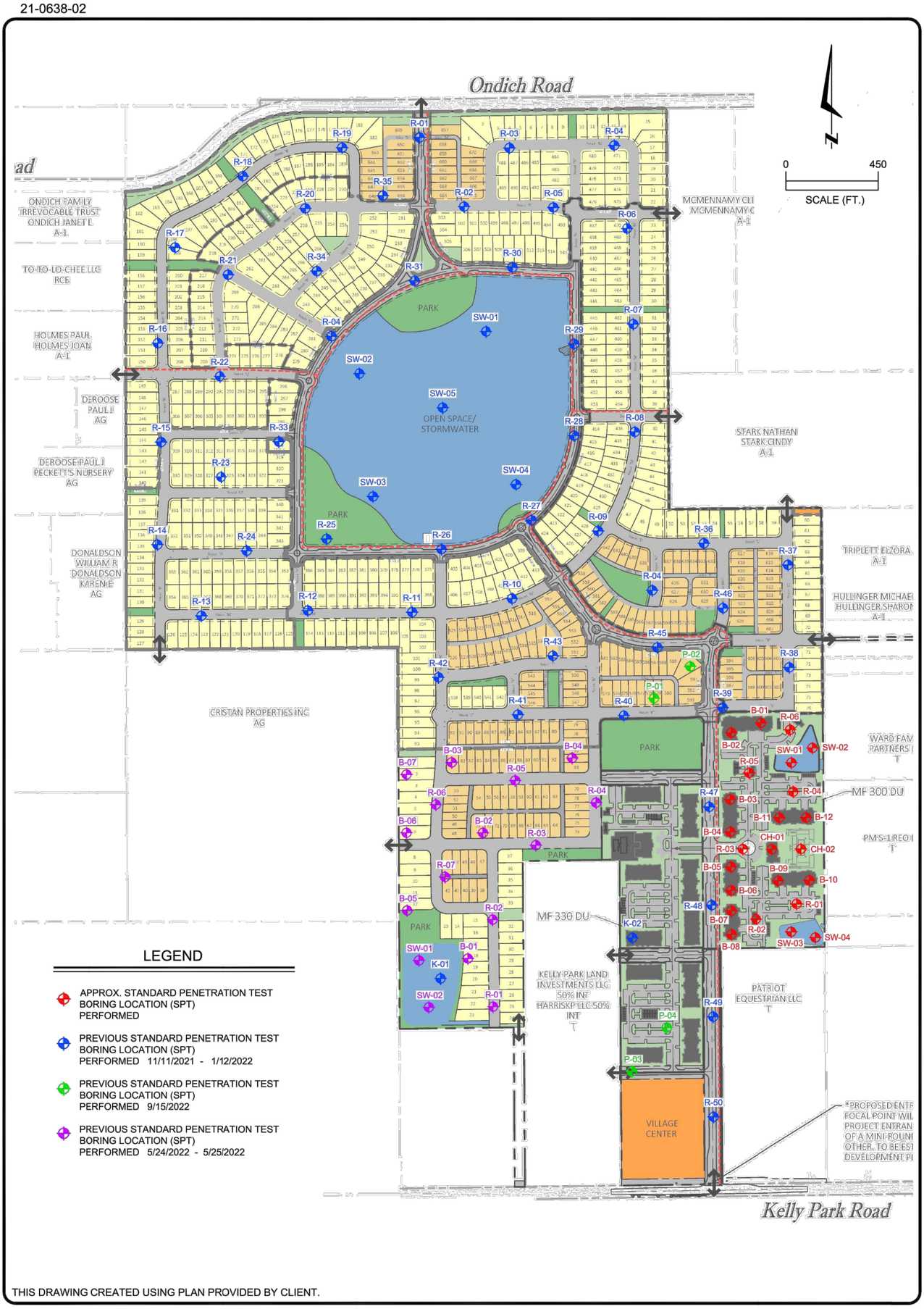
Marc D Stehli

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 CALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-TRS

21-0638-02



THIS DRAWING CREATED USING PLAN PROVIDED BY CLIENT.

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

PAGE NO: B-2

UNIVERSAL ENGINEERING SCIENCES

EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, ORANGE COUNTY, FLORIDA

BORING LOCATION PLAN

FOR: GALVIN LAND SERVICES, LLC

DRAWN BY:	N.F.	DATE:	2 - 1 - 2023
CHECKED BY:	Z.W.A.	DATE:	-
REPORT NO:	1915768	SCALE:	AS SHOWN
PROJECT NO:	0130.2100493.0000		

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com

DATE: August 7, 2023

Sheet No: C3.10

Sheet Title: BORING LOCATION MAP

Jurisdiction: CITY of APOPKA, FL

Project Name: CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

SUBMISSIONS/REVISIONS

NO	DATE	DESCRIPTION
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

Key Map

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.2100493.0000 | REPORT NO.: 1919910 | PAGE: B-2.1

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-01** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 154.5 | DATE STARTED: 12/20/21
WATER TABLE (ft): NE | DATE FINISHED: 12/20/21
DATE OF READING: 12/20/2021 | DRILLED BY: ORL - AI/CM
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose grey fine SAND [SP]						
		2-2-2	4			-- orange -- very loose						
5		2-2-1	3									
		1-1-1	2			-- loose						
		2-2-2	4				2	2				
		2-2-2	4									
10		2-2-2	4	▽								
15		3-3-3	6			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.2100493.0000 | REPORT NO.: 1919910 | PAGE: B-2.2

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-02** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 149.4 | DATE STARTED: 12/20/21
WATER TABLE (ft): NE | DATE FINISHED: 12/20/21
DATE OF READING: 12/20/2021 | DRILLED BY: ORL - AI/DM
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose orange brown fine SAND [SP]						
		2-2-2	4									
		2-2-2	4			-- orange -- very loose						
5		2-1-2	3			-- loose						
		2-2-2	4									
		2-2-2	4									
10		2-3-3	6	▽								
15		3-3-3	6			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.2100493.0000 | REPORT NO.: 1919910 | PAGE: B-2.3

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-03** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 144.8 | DATE STARTED: 12/22/21
WATER TABLE (ft): NE | DATE FINISHED: 12/22/21
DATE OF READING: 12/22/2021 | DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose mix grey brown fine SAND [SP]						
		3-3-3	6									
		3-3-2	5									
5		2-2-2	4			-- orange						
		3-2-3	5									
		3-3-3	6									
10		3-3-3	6	▽								
15		4-4-3	7			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.2100493.0000 | REPORT NO.: 1919910 | PAGE: B-2.4

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-04** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 154.7 | DATE STARTED: 12/22/21
WATER TABLE (ft): NE | DATE FINISHED: 12/22/21
DATE OF READING: 12/22/2021 | DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose orange fine SAND [SP]						
		2-2-2	4									
		2-2-2	4			-- very loose						
5		1-1-2	3			-- loose	2	3				
		2-2-2	4									
		2-2-2	4									
10		2-3-3	6	▽								
15		3-3-4	7			-- light brown BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.2100493.0000 | REPORT NO.: 1919910 | PAGE: B-2.5

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-05** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 147.3 | DATE STARTED: 12/22/21
WATER TABLE (ft): NE | DATE FINISHED: 12/22/21
DATE OF READING: 12/22/2021 | DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND [SP]						
		1-1-2	3			-- loose						
		2-2-2	4									
5		2-1-1	2			-- very loose, light orange brown						
		1-1-2	3			-- loose						
		2-2-2	4									
10		3-2-3	5	▽								
15		5-6-9	15			Medium dense orange clayey fine SAND [SC] BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.2100493.0000 | REPORT NO.: 1919910 | PAGE: B-2.6

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-06** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. | DATE STARTED: 12/22/21
WATER TABLE (ft): NE | DATE FINISHED: 12/22/21
DATE OF READING: 12/22/2021 | DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose mix grey brown orange fine SAND [SP]						
		2-1-2	3									
		2-1-1	2			-- orange						
5		1-1-1	2									
		2-1-2	3			-- loose						
		2-2-2	4									
10		2-2-2	4	▽								
15		3-2-3	5			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.2100493.0000 | REPORT NO.: 1919910 | PAGE: B-2.7

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-07** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 129.9 | DATE STARTED: 12/22/21
WATER TABLE (ft): NE | DATE FINISHED: 12/22/21
DATE OF READING: 12/22/2021 | DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND with roots [SP]						
		1-1-2	3									
		2-1-2	3			-- orange -- loose						
5		2-2-2	4									
		2-2-2	4									
		2-2-2	4				1	4				
10		2-3-2	5	▽								
15		3-3-3	6			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES BORING LOG

PROJECT NO.: 0130.2100493.0000 | REPORT NO.: 1919910 | PAGE: B-2.8

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-08** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 131.4 | DATE STARTED: 12/27/21
WATER TABLE (ft): NE | DATE FINISHED: 12/27/21
DATE OF READING: 12/27/2021 | DRILLED BY: UES - ORLANDO
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose brown fine SAND [SP]						
		2-2-2	4									
		2-2-2	4			-- very loose, light brown						
5		2-1-1	2									
		1-1-2	3			-- loose						
		2-2-2	4									
10		2-3-3	6	▽								
15		3-3-4	7			Loose orange brown fine SAND with clay [SP-SC] BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SOIL BORINGS

Sheet No.:

C3.11

DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SB

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.9

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-09** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 120.4 DATE STARTED: 12/28/21
WATER TABLE (ft): NE DATE FINISHED: 12/28/21
DATE OF READING: 12/28/2021 DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND [SP]						
		1-1-2	3									
		2-1-1	2									
5		1-1-2	3			-- loose						
		2-2-2	4			-- light brown						
		2-2-2	4									
10		2-2-2	4	▽		Loose mix orange brown fine SAND with silt [SP-SC]						
15		6-8-8	16			Medium dense orange clayey fine SAND [SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.10

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-10** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 121.0 DATE STARTED: 12/28/21
WATER TABLE (ft): NE DATE FINISHED: 12/28/21
DATE OF READING: 12/28/2021 DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 6.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose brown fine SAND [SP]						
		1-1-1	2									
		1-2-1	3			-- loose						
5		2-2-2	4			-- very loose						
		2-1-2	3	▽								
		2-3-4	7			Loose orange clayey fine SAND [SC]	28	13				
10		3-3-3	6									
15		3-3-3	6			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.11

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-11** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 108.6 DATE STARTED: 12/28/21
WATER TABLE (ft): NE DATE FINISHED: 12/28/21
DATE OF READING: 12/28/2021 DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 6.5 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose light brown fine SAND [SP]						
		2-2-2	4									
		2-1-1	2			-- very loose						
5		1-1-1	2									
		1-1-1	2	▽								
		2-2-2	4			Loose orange clayey fine SAND [SC]						
10		3-3-3	6									
15		4-3-4	7			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.12

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-12** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 125.1 DATE STARTED: 12/13/21
WATER TABLE (ft): NE DATE FINISHED: 12/13/21
DATE OF READING: 12/13/2021 DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose brown fine SAND [SP]						
		1-1-1	2									
		1-2-1	3			-- loose						
5		2-2-2	4									
		2-3-2	5									
		3-2-2	4									
10		2-2-2	4	▽								
						-- orange brown						
15		2-2-2	4			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.13

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-13** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 133.8 DATE STARTED: 12/13/21
WATER TABLE (ft): NE DATE FINISHED: 12/13/21
DATE OF READING: 12/13/2021 DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose brown fine SAND [SP]						
		1-2-2	4									
		2-2-2	4			-- very loose, light brown						
5		2-2-1	3									
		2-1-2	3			-- loose						
		2-2-2	4									
10		2-2-2	4	▽			1	4				
15		3-3-4	7			Loose orange clayey fine SAND [SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.14

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-14** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 138.9 DATE STARTED: 12/13/21
WATER TABLE (ft): NE DATE FINISHED: 12/13/21
DATE OF READING: 12/13/2021 DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 8.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND [SP]						
		1-1-2	3									
		1-1-1	2			-- light brown						
5		1-2-2	4									
		2-2-2	4	▽		Loose orange fine SAND with clay [SP-SC]						
		2-2-3	5			Loose orange clayey fine SAND [SC]						
10												
15		4-4-6	10			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.15

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-15** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 143.2 DATE STARTED: 12/14/21
WATER TABLE (ft): NE DATE FINISHED: 12/14/21
DATE OF READING: 12/14/2021 DRILLED BY: ORL - AI/CM
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT.	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose light brown fine SAND [SP]						
		2-2-2	4									
		2-2-2	4			-- very loose						
5		1-2-1	3			-- loose						
		2-2-2	4									
		2-1-2	3			-- very loose						
10		2-2-2	4	▽		-- loose						
15		2-2-3	5			-- light orange brown						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.16

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-16** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 139.5 DATE STARTED: 12/14/21
WATER TABLE (ft): NE DATE FINISHED: 12/14/21
DATE OF READING: 12/14/2021 DRILLED BY: ORL - AI/CM
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND [SP]						
		1-1-2	3									
		2-1-2	3			-- light brown						
5		2-2-2	4			-- loose						
		2-2-2	4			-- very light brown	2	3				
		2-3-3	6									
10		3-4-6	10	▽		Loose orange fine SAND with clay [SP-SC]						
15		7-6-9	15			Medium dense oraneg clayey fine SAND [SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SOIL BORINGS

Sheet No.:

C3.12

DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SB

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.17

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-17** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 136.7
WATER TABLE (ft): NE
DATE OF READING: 12/15/2021
EST. SHGWT (ft): 3.5

DATE STARTED: 12/15/21
DATE FINISHED: 12/15/21
DRILLED BY: ORL - AI/CM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose brown fine SAND [SP]						
		2-2-2	4	▽								
		2-2-3	5			Loose orange clayey fine SAND [SC]						
5		2-2-6	8			-- medium dense						
		7-7-10	17									
		12-12-11	23									
10		10-12-11	23									
						Loose pink fine SAND with clay [SP-SC]						
15		3-3-4	7			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.18

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-18** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 147.3
WATER TABLE (ft): NE
DATE OF READING: 12/15/2021
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/15/21
DATE FINISHED: 12/15/21
DRILLED BY: ORL - AI/CM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose light brown fine SAND [SP]						
		1-1-1	2									
		2-2-1	3									
5		1-1-1	2			-- loose						
		1-2-2	4			Loose orange fine SAND with clay [SP-SC]						
		2-2-2	4									
10		2-3-3	6	▽								
						Medium dense orange clayey fine SAND [SC]						
15		4-5-7	12			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.19

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-19** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 150.1
WATER TABLE (ft): NE
DATE OF READING: 12/20/2021
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/20/21
DATE FINISHED: 12/20/21
DRILLED BY: ORL - AI/DM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange brown fine SAND [SP]						
		1-1-1	2									
		1-1-1	2			-- orange						
5		1-1-1	2				1	4				
		1-1-2	3									
		2-1-2	3			Very loose orange fine SAND with clay [SP-SC]						
10		2-3-3	6	▽		-- loose						
15		4-3-4	7			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.20

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-20** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 143.0
WATER TABLE (ft): NE
DATE OF READING: 12/16/2021
EST. SHGWT (ft): 8.0

DATE STARTED: 12/16/21
DATE FINISHED: 12/16/21
DRILLED BY: ORL - AI/DM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose mix grey brown fine SAND [SP]						
		2-2-2	4									
		2-1-2	3			-- very loose						
		2-1-1	2			-- light brown						
5		1-1-2	3									
		3-4-10	14	▽		Medium dense orange fine SAND with clay [SP-SC]						
						Medium dense orange clayey fine SAND [SC]						
10		11-13-13	26									
15		5-6-6	12			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.21

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-21** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 138.2
WATER TABLE (ft): NE
DATE OF READING: 12/15/2021
EST. SHGWT (ft): 2.0

DATE STARTED: 12/15/21
DATE FINISHED: 12/15/21
DRILLED BY: ORL - AI/CM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose brown fine SAND with clay [SP-SC]						
		2-2-2	4	▽								
		2-2-3	5			Loose mix brown clayey fine SAND [SC]						
5		3-3-15	18			-- medium dense						
						-- dense						
		16-20-21	41			-- medium dense						
10		10-10-8	18									
		10-9-12	21									
						Loose light orange fine SAND with clay [SP-SC]						
15		4-3-3	6			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.22

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-22** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 141.5
WATER TABLE (ft): NE
DATE OF READING: 12/14/2021
EST. SHGWT (ft): 6.5

DATE STARTED: 12/14/21
DATE FINISHED: 12/14/21
DRILLED BY: ORL - AI/CM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose mix grey brown fine SAND [SP]						
		2-2-2	4									
		2-1-1	2			-- very loose, light brown						
5		1-1-2	3									
		2-2-3	5	▽		-- loose						
		6-8-11	19			Medium dense mix orange clayey fine SAND [SC]	23	15				
10		12-12-13	25									
15		8-10-10	20			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.23

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-23** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 145.4
WATER TABLE (ft): NE
DATE OF READING: 12/14/2021
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/14/21
DATE FINISHED: 12/14/21
DRILLED BY: ORL - AI/CM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose grey brown fine SAND [SP]						
		2-2-2	4									
		2-1-2	3			-- very loose, light brown						
5		1-1-1	2			-- loose						
		1-2-2	4									
		2-2-2	4									
10		2-2-2	4	▽								
15		3-3-3	9			-- light orange						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.24

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-24** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 135.1
WATER TABLE (ft): NE
DATE OF READING: 12/13/2021
EST. SHGWT (ft): 8.0

DATE STARTED: 12/13/21
DATE FINISHED: 12/13/21
DRILLED BY: ORL - AI/CM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose grey brown fine SAND [SP]						
		2-2-2	4									
		2-2-2	4			-- very loose						
5		2-2-1	3			-- light brown						
		1-1-2	3			-- loose						
		2-2-2	4	▽								
						Loose light brown clayey fine SAND [SC]						
10		2-2-4	6			-- orange						
15		5-4-5	9			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SOIL BORINGS

Sheet No.:

C3.13

DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SB

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.25

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-25** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 99.8 DATE STARTED: 12/14/21
WATER TABLE (ft): NE DATE FINISHED: 12/14/21
DATE OF READING: 12/14/2021 DRILLED BY: ORL - AI/CM
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND [SP]						
		1-1-1	2			-- loose						
		1-2-2	4									
5		2-2-2	4			-- very loose	1	3				
		2-1-1	2									
		1-1-1	2									
10		1-1-1	2	▽								
						-- orange						
15		1-1-1	2									
						-- loose						
20		3-4-4	8			BORING TERMINATED AT 20.0 FEET						
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.26

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-26** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 102.4 DATE STARTED: 12/27/21
WATER TABLE (ft): NE DATE FINISHED: 12/27/21
DATE OF READING: 12/27/2021 DRILLED BY: UES - ORLANDO
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND [SP]						
		2-1-2	3			-- loose						
		2-2-2	4			-- very loose						
5		2-1-1	2			-- light brown						
		1-1-1	2			-- loose						
		1-2-2	4									
10		2-2-2	4	▽								
						Loose orange clayey fine SAND [SC]						
15		4-5-5	10			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.27

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-27** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 112.0 DATE STARTED: 12/23/21
WATER TABLE (ft): NE DATE FINISHED: 12/23/21
DATE OF READING: 12/23/2021 DRILLED BY: UES - ORLANDO
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose grey brown fine SAND [SP]						
		2-2-2	4			-- very loose						
		2-1-1	2			-- loose						
5		1-2-2	4									
		2-2-2	4			-- light brown						
		2-2-2	4									
10		2-2-3	5	▽		Loose light brown fine SAND with clay [SP-SC]						
						Loose orange clayey fine SAND [SC]						
15		4-3-4	7			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.28

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-28** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 110.9 DATE STARTED: 12/23/21
WATER TABLE (ft): NE DATE FINISHED: 12/23/21
DATE OF READING: 12/23/2021 DRILLED BY: UES - ORLANDO
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose brown fine SAND [SP]						
		1-1-1	2									
		1-2-1	3			-- loose						
5		2-2-2	4			-- very loose	4	4				
		2-1-2	3			-- loose						
		2-2-2	4									
10		2-2-2	4	▽								
						Loose orange clayey fine SAND [SC]						
15		2-3-3	6			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.29

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-29** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 113.8 DATE STARTED: 12/22/21
WATER TABLE (ft): NE DATE FINISHED: 12/22/21
DATE OF READING: 12/22/2021 DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange brown fine SAND [SP]						
		1-2-1	3			-- loose						
		2-2-2	4			-- very loose						
5		2-2-1	3			-- loose						
		2-2-2	4									
		2-3-3	6									
10		3-2-3	5	▽								
						Loose orange brown fine SAND with clay [SP-SC]						
15		2-2-3	5			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.30

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-30** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 133.1 DATE STARTED: 12/22/21
WATER TABLE (ft): NE DATE FINISHED: 12/22/21
DATE OF READING: 12/22/2021 DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey fine SAND [SP]						
		1-1-1	2			-- brown						
		2-1-1	2			-- light brown						
5		1-1-1	2									
		1-1-1	2			-- loose						
		2-2-2	4									
10		2-3-2	5	▽								
						Loose orange fine SAND with clay [SP-SC]						
15		3-3-3	9			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.31

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-31** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 129.1 DATE STARTED: 12/22/21
WATER TABLE (ft): NE DATE FINISHED: 12/22/21
DATE OF READING: 12/22/2021 DRILLED BY: ORL - AI/DM/DW
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange brown fine SAND [SP]						
		1-1-1	2									
		1-2-1	3									
5		2-1-2	3			-- loose	2	3				
		2-2-2	4									
		2-2-2	4									
10		2-2-2	4	▽								
						Loose orange brown fine SAND with clay [SP-SC]						
15		2-3-3	6			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.32

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-32** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 132.0 DATE STARTED: 12/15/21
WATER TABLE (ft): NE DATE FINISHED: 12/15/21
DATE OF READING: 12/15/2021 DRILLED BY: ORL - AI/CM
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND [SP]						
		1-1-1	2									
		1-2-1	3			-- light brown						
5		1-1-1	2			-- loose						
		2-2-2	4									
		2-2-2	4									
10		2-2-2	4	▽								
						Loose orange clayey fine SAND [SC]						
15		3-2-3	5			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SOIL BORINGS

Sheet No.:

C3.14

DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SB

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.33

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-33** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 130.0
WATER TABLE (ft): NE
DATE OF READING: 12/14/2021
EST. SHGWT (ft): 8.0

DATE STARTED: 12/14/21
DATE FINISHED: 12/14/21
DRILLED BY: ORL - AI/CM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose grey fine SAND [SP]						
		2-2-2	4			-- light brown -- very loose						
5		1-1-1	2									
		1-1-1	2									
		1-1-2	3	▽		-- loose						
10		3-2-3	5			Medium dense orange clayey fine SAND [SC]						
		6-10-12	22									
15		9-13-11	24			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.34

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-34** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 137.5
WATER TABLE (ft): NE
DATE OF READING: 12/15/2021
EST. SHGWT (ft): 3.5

DATE STARTED: 12/15/21
DATE FINISHED: 12/15/21
DRILLED BY: ORL - AI/CM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose brown fine SAND [SP]						
		1-2-1	3			-- loose						
5		2-2-2	4	▽								
		3-4-7	11			Medium dense orange clayey fine SAND [SC]	16	16				
		12-14-21	35			-- dense, orange brown						
10		12-16-16	32			-- orange						
		11-13-13	26			-- medium dense -- dark orange						
15		4-5-4	9			Loose pink fine SAND with clay [SP-SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.35

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-35** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 144.2
WATER TABLE (ft): NE
DATE OF READING: 12/20/2021
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/20/21
DATE FINISHED: 12/20/21
DRILLED BY: ORL - AI/DM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose brown fine SAND [SP]						
		1-2-2	4			-- light brown -- very loose						
5		2-2-2	4									
		2-1-2	3									
		2-1-1	2			Loose very light brown fine SAND with clay [SP-SC]						
10		2-2-2	4									
		2-3-5	8	▽		Loose very light brown fine SAND [SP]						
15		4-4-6	10			Loose orange clayey fine SAND [SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.36

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-36** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft): 140.4
WATER TABLE (ft): NE
DATE OF READING: 12/29/21
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/29/21
DATE FINISHED: 12/29/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey fine SAND [SP]						
		1-1-1	2			-- brown						
5		1-1-1	2			-- loose						
		2-2-2	4									
		2-2-2	4									
10		3-3-4	7									
		4-3-4	7	▽								
15		7-8-11	19			Medium dense grey brown clayey fine SAND [SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-37** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft): 139.4
WATER TABLE (ft): NE
DATE OF READING: 12/29/21
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/29/21
DATE FINISHED: 12/29/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose brown fine SAND [SP]						
		1-1-1	2									
		1-1-1	2									
5		1-1-2	3			-- loose						
		2-2-2	4									
		2-2-2	4									
10		2-2-2	4	▽								
		5-7-8	15			Medium dense ornage clayey fine SAND [SC]						
15						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-38** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft): 139.1
WATER TABLE (ft): NE
DATE OF READING: 12/29/21
EST. SHGWT (ft): 6.5

DATE STARTED: 12/29/21
DATE FINISHED: 12/29/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND [SP]						
		2-1-2	3									
		2-2-1	3			-- loose						
5		1-2-2	4	▽		-- medium dense, orange brown						
		6-8-8	16									
		7-7-10	17			Medium dense orange clayey fine SAND [SC]						
10		8-10-10	20									
15		9-11-10	21			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-39** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft): 134.1
WATER TABLE (ft): NE
DATE OF READING: 12/29/21
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/29/21
DATE FINISHED: 12/29/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange fine SAND [SP]						
		1-2-1	3									
		1-1-2	3			-- loose						
5		2-2-2	4									
		2-2-2	4									
		2-2-2	4									
10		2-2-2	4	▽								
		3-2-3	5			BORING TERMINATED AT 15.0 FEET						
15												
20												
25												
30												

W-11951.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.40

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-40** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 140.2
WATER TABLE (ft): NE
DATE OF READING: 12/28/2021
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/28/21
DATE FINISHED: 12/28/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey brown fine SAND [SP]						
		1-1-1	2									
		1-1-1	2			-- loose						
5		1-2-2	4			-- orange brown						
		2-2-2	4									
		2-3-2	5				5	5				
10		3-3-3	6	▽								
		6-8-13	21			Medium dense orange clayey fine SAND [SC]						
15						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

W-11951.GPJ

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SOIL BORINGS

Sheet No.:

C3.15

DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SB

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.41

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-41** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 130.7
WATER TABLE (ft): NE
DATE OF READING: 12/28/2021
EST. SHGWT (ft): 6.5

DATE STARTED: 12/28/21
DATE FINISHED: 12/28/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose brown fine SAND [SP]						
		2-2-2	4									
		2-1-1	2			-- very loose, very light brown						
5		1-1-1	2	▽		-- loose						
		1-2-2	4			Loose orange clayey fine SAND [SC]						
		2-2-3	5									
10		3-4-4	8									
15		4-5-5	10			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-42** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 107.9
WATER TABLE (ft): NE
DATE OF READING: 12/28/2021
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/28/21
DATE FINISHED: 12/28/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose brown fine SAND [SP]						
		2-1-1	2									
		1-1-2	3									
5		2-1-1	2			-- loose						
		2-2-2	4			Loose brown fine SAND with clay [SP-SC]						
		2-2-2	4			-- medium dense, dark orange						
10		3-6-7	13	▽								
						-- orange						
15		6-6-6	12			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-43** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 129.6
WATER TABLE (ft): NE
DATE OF READING: 12/28/2021
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/28/21
DATE FINISHED: 12/28/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose brown fine SAND [SP]						
		1-1-1	2									
		1-1-1	2									
		1-1-2	3									
5		2-1-2	3			-- loose						
		2-2-2	4									
10		2-2-2	4	▽								
						Medium dense orange clayey fine SAND [SC]	19	12				
15		6-8-11	19			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-44** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 131.9
WATER TABLE (ft): NE
DATE OF READING: 12/28/2021
EST. SHGWT (ft): 3.5

DATE STARTED: 12/28/21
DATE FINISHED: 12/28/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose brown fine SAND [SP]						
		1-1-1	2									
		1-1-1	2	▽								
		3-3-3	6			Loose orange clayey fine SAND [SC]						
		3-3-3	6									
		3-4-3	7			Loose orange fine SAND with clay [SP-SC]						
15		4-3-5	8									
		3-3-4	7			BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-45** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 130.6
WATER TABLE (ft): NE
DATE OF READING: 12/28/2021
EST. SHGWT (ft): 3.5

DATE STARTED: 12/28/21
DATE FINISHED: 12/28/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose grey brown fine SAND [SP]						
		1-2-2	4									
		1-1-1	2	▽		-- very loose						
5		1-1-2	3			Very loose orange clayey fine SAND [SC]						
		2-3-2	5			-- loose						
		3-3-3	6									
10		3-3-3	6									
15		4-3-4	7			Loose orange fine SAND with clay [SP-SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **R-46** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft): 142.3
WATER TABLE (ft): NE
DATE OF READING: 12/29/21
EST. SHGWT (ft): 10.0+

DATE STARTED: 12/29/21
DATE FINISHED: 12/29/21
DRILLED BY: ORL - AI/DM/DW
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose brown fine SAND [SP]						
		3-2-2	4									
		2-2-2	4									
5		2-2-2	4			-- light brown						
		2-2-2	4									
		2-2-2	4									
10		2-3-4	7	▽		-- very light brown						
15		4-6-6	12			Medium dense orange clayey fine SAND [SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												
30												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
PAGE: B-2.51

PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **SW-01** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 103.6
WATER TABLE (ft): NE
DATE OF READING: 12/23/2021
EST. SHGWT (ft): 20.0+

DATE STARTED: 12/23/21
DATE FINISHED: 12/23/21
DRILLED BY: UES - ORLANDO
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose grey fine SAND [SP]						
		2-1-1	2			-- loose, tan brown						
		1-2-2	4			-- orange tan						
5		1-2-2	4			-- brown tan orange						
		2-2-2	4			-- orange						
		2-2-2	4			-- very loose						
10		3-2-1	3				2	4			25	
						-- loose, light orange tan						
15		2-2-2	4									
						-- brown tan						
20		2-3-3	6	▽								
						-- brown						
25		3-3-4	7									
						Loose brown grey fine SAND with clay [SP-SC]	7	7				
30		2-3-2	5			BORING TERMINATED AT 30.0 FEET						

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.: 0130.2100493.0000
REPORT NO.: 1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **SW-02** SHEET: **1 of 1**
SECTION: TOWNSHIP: RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 120.2
WATER TABLE (ft): NE
DATE OF READING: 12/15/2021
EST. SHGWT (ft): 20.0+

DATE STARTED: 12/15/21
DATE FINISHED: 12/15/21
DRILLED BY: ORL - AI/CM
TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose brown fine SAND [SP]						
		1-1-1	2									
		1-1-1	2			-- orange						
		1-1-1	2									
5		1-1-2	3			-- loose	2	4			31	
		2-2-2	4									
10		2-2-2	4									
15		3-2-3	5									
		4-3-4	7	▽								
20												
		4-4-4	8				5	5				
25												
30		3-3-4	7			BORING TERMINATED AT 30.0 FEET						

W-11951.GPJ

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:
CITY of APOPKA, FL

Sheet Title:
SOIL BORINGS

Sheet No.:
C3.16

DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SB

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0000
REPORT NO.:	1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **SW-03** SECTION: TOWNSHIP: SHEET: **1 of 1** RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 89.3 DATE STARTED: 12/14/21
WATER TABLE (ft): NE DATE FINISHED: 12/14/21
DATE OF READING: 12/14/2021 DRILLED BY: ORL - AJCM
EST. SHGWT (ft): 20.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose mix grey brown fine SAND [SP]						
		2-2-2	4			-- very loose						
		2-1-1	2			-- orange						
5		2-1-2	3			-- loose						
		2-2-2	4									
		2-2-2	4				3	5			21	
10		2-2-2	4									
15		2-3-2	5									
20		4-4-4	8	▽			3	5				
25		4-5-7	12			-- medium dense						
						Medium dense orange fine SAND with clay [SP-SC]						
30		6-6-6	12			BORING TERMINATED AT 30.0 FEET						

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0000
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **SW-04** SECTION: TOWNSHIP: SHEET: **1 of 1** RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 97.7 DATE STARTED: 12/23/21
WATER TABLE (ft): NE DATE FINISHED: 12/23/21
DATE OF READING: 12/23/2021 DRILLED BY: UES - ORLANDO
EST. SHGWT (ft): 20.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose tan brown fine SAND [SP]						
		2-2-2	4			-- very loose						
		2-1-2	3			-- loose						
5		2-2-2	4			Loose tan brown orange fine SAND with clay [SP-SC]	6	5			13	
		2-2-2	4			-- orange						
		2-2-2	4									
10		2-3-2	5									
15		4-3-4	4			Loose mix brown orange fine SAND [SP]	5	5				
20		3-3-3	6	▽		-- brown						
25		3-3-3	6			-- orange brown						
30		4-4-4	8			-- brown						
						BORING TERMINATED AT 30.0 FEET						

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0000
REPORT NO.:	1919910
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PROJECT: EVALUATION OF MAPPED KARST AREAS
KELLY PARK PROPERTY - SOUTHERN ASSEMBLAGE
APOPKA, FLORIDA

BORING I.D.: **SW-05** SECTION: TOWNSHIP: SHEET: **1 of 1** RANGE:

CLIENT: GALVIN LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): 85.0 DATE STARTED: 12/23/21
WATER TABLE (ft): NE DATE FINISHED: 12/23/21
DATE OF READING: 12/23/2021 DRILLED BY: UES - ORLANDO
EST. SHGWT (ft): 20.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange fine SAND [SP]						
		2-1-2	3			-- loose						
		2-2-2	4			-- very loose						
5		2-2-1	3			-- loose						
		1-2-2	4			-- very loose	5	5			14	
		2-1-2	3			-- loose						
10		2-2-2	4									
15		3-3-3	6									
20		3-4-3	7	▽								
25		4-3-3	6			-- brown	5	5				
30		4-5-5	10			BORING TERMINATED AT 30.0 FEET						

W-11951.GPJ

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:
CITY of APOPKA, FL

Sheet Title:
SOIL BORINGS

Sheet No.:
C3.17

DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SB

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.2

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **B-02** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. | DATE STARTED: 5/25/22
WATER TABLE (ft): NE | DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 | DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose dark orange brown fine SAND [SP]						
		1-1-1	2									
		2-1-2	3			-- orange brown						
5		1-1-1	2									
		1-1-1	2									
		1-2-1	3			-- loose	2	5				
10		1-2-2	4	▽								
15		3-4-4	8			BORING TERMINATED AT 15.0 FEET						
20												
25												

W-22Z74.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.3

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **B-03** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. | DATE STARTED: 5/25/22
WATER TABLE (ft): NE | DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 | DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 3.5 | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange brown fine SAND [SP]						
		1-2-1	3									
		1-1-2	3	▽								
						Loose orange brown clayey fine SAND [SC]						
5		2-3-3	6									
		4-3-3	6									
		3-4-6	10			-- medium dense						
10		6-6-7	13									
15		4-5-5	10			-- loose						
20						BORING TERMINATED AT 15.0 FEET						
25												

W-22Z74.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.4

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **B-04** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. | DATE STARTED: 5/25/22
WATER TABLE (ft): 15.0 | DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 | DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose dark orange brown fine SAND [SP]						
		2-2-2	4									
		2-2-2	4			-- very loose, orange brown						
5		2-1-2	3									
		2-3-2	5									
		2-3-3	6									
10		3-4-3	7	▽								
15		3-4-5	9	▼		-- grey brown						
20						BORING TERMINATED AT 15.0 FEET						
25												

W-22Z74.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.5

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **B-05** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. | DATE STARTED: 5/25/22
WATER TABLE (ft): 5.0 | DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 | DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 2.0 | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange grey brown fine SAND [SP]						
		1-2-1	3	▽								
		1-1-1	2			-- loose, dark grey brown						
5		2-2-3	5	▼		-- very loose						
		2-1-2	3									
						Medium dense grey brown claye fine SAND [SC]						
10		6-7-11	18									
		7-9-15	24									
15						-- very dense						
		22-50/5"	50/5"									
20						BORING TERMINATED AT 15.0 FEET						
25												

W-22Z74.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.6

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **B-06** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. | DATE STARTED: 5/25/22
WATER TABLE (ft): 15.0 | DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 | DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 5.0 | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange brown fine SAND [SP]						
		2-1-2	3									
		1-1-1	2			-- loose, orange brown						
5		1-2-2	4	▽								
						Loose orange brown clayey fine SAND [SC]	14	11				
		2-3-2	5									
10		3-5-5	10			-- medium dense						
		5-6-7	13									
15						-- orange grey brown						
		10-11-16	27	▼								
20						BORING TERMINATED AT 15.0 FEET						
25												

W-22Z74.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.7

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **B-07** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. | DATE STARTED: 5/25/22
WATER TABLE (ft): NE | DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 | DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 3.5 | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose orange brown fine SAND [SP]						
		1-2-2	4									
		2-4-4	8	▽		Loose orange brown fine SAND with clay [SP-SC]						
5						Loose orange brown clayey fine SAND [SC]						
		2-4-3	7									
		5-5-5	10			-- medium dense						
10		4-5-6	11									
		5-6-5	11									
15						-- loose						
		3-4-4	8									
20						BORING TERMINATED AT 15.0 FEET						
25												

W-22Z74.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.9

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **R-02** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. | DATE STARTED: 5/24/22
WATER TABLE (ft): 5.0 | DATE FINISHED: 5/24/22
DATE OF READING: 5/24/2022 | DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 2.0 | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose dark grey brown fine SAND [SP]						
		2-3-2	5	▽								
		3-4-5	9			-- light grey brown						
5		4-5-4	9	▼		-- medium dense	4	19				
		6-5-7	12									
						Medium dense grey brown fine SAND with clay [SP-SC]						
10		7-11-13	24									
		11-11-14	25									
15						-- dense						
		10-19-29	48									
20						BORING TERMINATED AT 15.0 FEET						
25												

W-22Z74.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.10

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **R-03** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. | DATE STARTED: 5/25/22
WATER TABLE (ft): 15.0 | DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 | DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 10.0+ | TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose dark orange brown fine SAND [SP]						
		2-2-2	4									
		1-2-3	5									
		3-2-3	5			-- orange brown						
5		2-2-2	4									
		3-2-3	5									
		3-2-3	5	▽								
10												
15						-- medium dense, grey brown						
		5-6-5	11	▼								
20						BORING TERMINATED AT 15.0 FEET						
25												

W-22Z74.GPJ

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SOIL BORINGS PHASE 3

Sheet No.:

C3.18

DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.11

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **R-04** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. DATE STARTED: 5/25/22
WATER TABLE (ft): 15.0 DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Loose dark orange brown fine SAND [SP]						
		2-3-2	5									
		2-2-2	4			-- very loose, orange brown						
5		1-2-1	3			-- loose						
		1-2-2	4									
		2-2-2	4			Loose orange brown fine SAND with clay [SP-SC]	6	9				
10		3-2-2	4	▽								
						-- medium dense, grey brown						
15		4-5-6	11	▼		BORING TERMINATED AT 15.0 FEET						
20												
25												

W:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SB

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.12

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **R-05** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. DATE STARTED: 5/25/22
WATER TABLE (ft): NE DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose dark orange brown fine SAND [SP]						
		1-1-2	3									
		2-1-2	3			-- loose, orange brown						
5		1-2-2	4				2	3				
		1-2-2	4									
		2-2-2	4									
10		2-3-3	6	▽								
						-- orange grey brown						
15		4-5-4	9			BORING TERMINATED AT 15.0 FEET						
20												
25												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.13

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **R-06** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. DATE STARTED: 5/25/22
WATER TABLE (ft): 15.0 DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 5.0 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange brown fine SAND [SP]						
		1-1-1	2									
		1-2-1	3			-- loose, orange brown						
5		1-2-2	4	▽								
		1-3-3	6			Loose orange brown clayey fine SAND [SC]						
		3-6-6	12			-- medium dense						
10		4-7-6	13									
15		10-11-10	21	▼		Medium dense orange grey brown fine SAND with clay [SP-SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												

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UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.2100493.0001
REPORT NO.:	1957206
PAGE:	B-2.14

PROJECT: GEOTECHNICAL EXPLORATION
KELLY PARK SOUTH
APOPKA, FLORIDA

BORING I.D.: **R-07** SECTION: TOWNSHIP: RANGE: SHEET: **1 of 1**

CLIENT: GALVIN-HARRIS LAND SERVICES, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED, NE = NOT ENCOUNTERED

G.S. ELEVATION (ft): N.S. DATE STARTED: 5/25/22
WATER TABLE (ft): NE DATE FINISHED: 5/25/22
DATE OF READING: 5/25/2022 DRILLED BY: ORL - DW/CM/AI
EST. SHGWT (ft): 10.0+ TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/ DAY)	ORG. CONT. (%)
0						Very loose orange brown fine SAND [SP]						
		1-1-2	3									
		2-1-2	3			-- loose						
5		2-2-2	4									
		1-2-2	4			-- very loose						
		1-2-1	3									
10		3-2-3	5	▽		Loose orange brown fine SAND with clay [SP-SC]						
15		4-3-5	8			Loose orange brown clayey fine SAND [SC]						
						BORING TERMINATED AT 15.0 FEET						
20												
25												

W:\2021\21-027.GPJ

NOTE: THIS PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO UES REPORT NO. 1985238, DATED OCTOBER 26, 2022, FOR ADDITIONAL SOIL INFORMATION.

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N/A

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:
CITY of APOPKA, FL

Sheet Title:
SOIL BORINGS PHASE 3

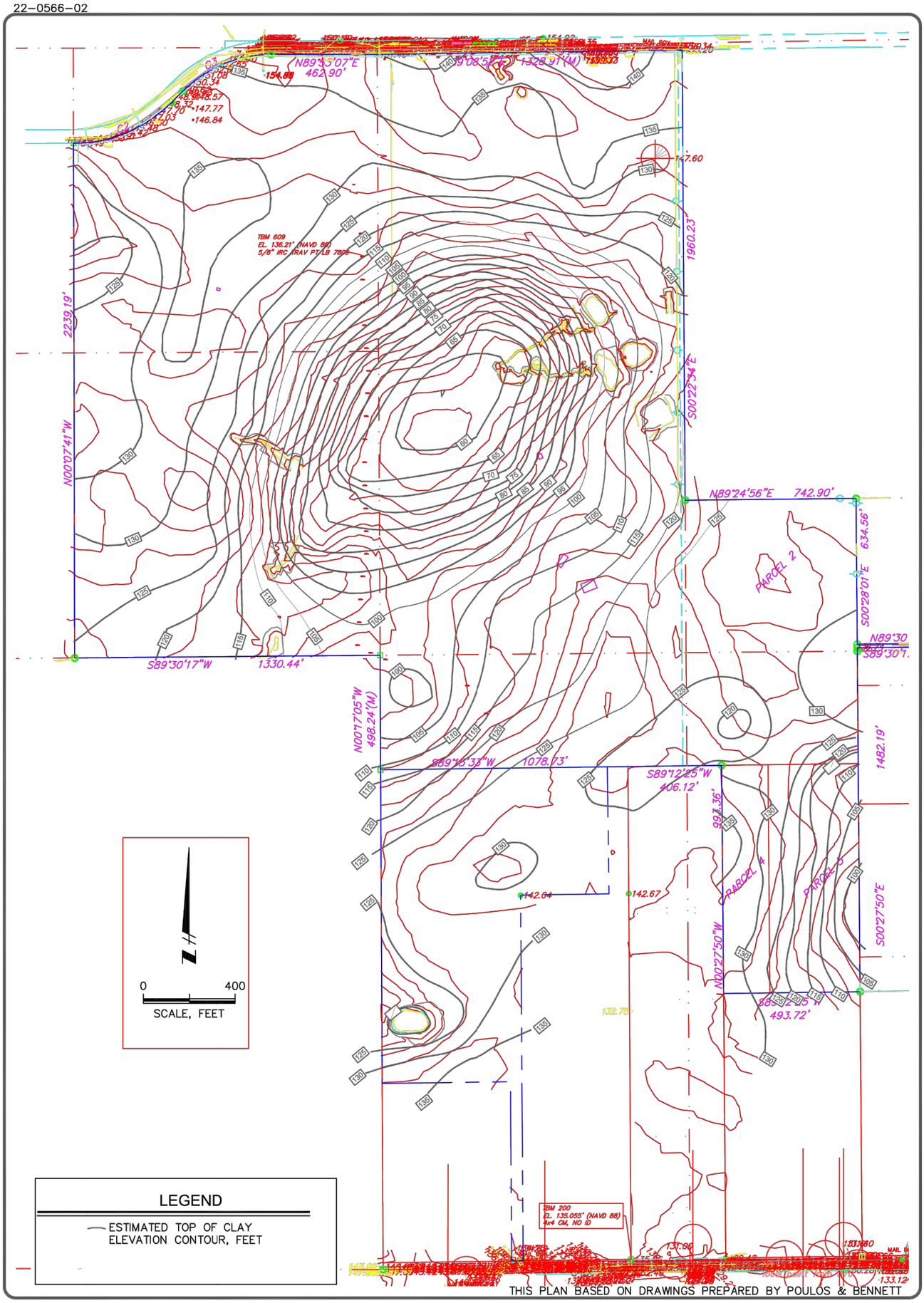
Sheet No.:
4 C3.19

DATE: August 7, 2023

POULOS & BENNETT
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-SB

22-0566-02



THIS PLAN BASED ON DRAWINGS PREPARED BY POULOS & BENNETT

PAGE NO: A-1

UNIVERSAL ENGINEERING SCIENCES

GEOTECHNICAL EXPLORATION
KELLY PARK PROPERTY
APOPKA, ORANGE COUNTY, FLORIDA

TOP OF CLAY CONTOUR MAP

FOR: GALVIN LAND SERVICES, LLC

DRAWN BY:	R.K.	DATE:	2 - 27 - 2023
CHECKED BY:	A.W.	DATE:	2 - 27 - 2023
REPORT NO:	--	SCALE:	AS SHOWN
PROJECT NO:	0130.2200422.0000		

Key Map

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com

DATE: August 7, 2023

Sheet No.: C3.20

Sheet Title: CLAY CONTOUR MAP

Jurisdiction: CITY of APOPKA, FL

Project Name: CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

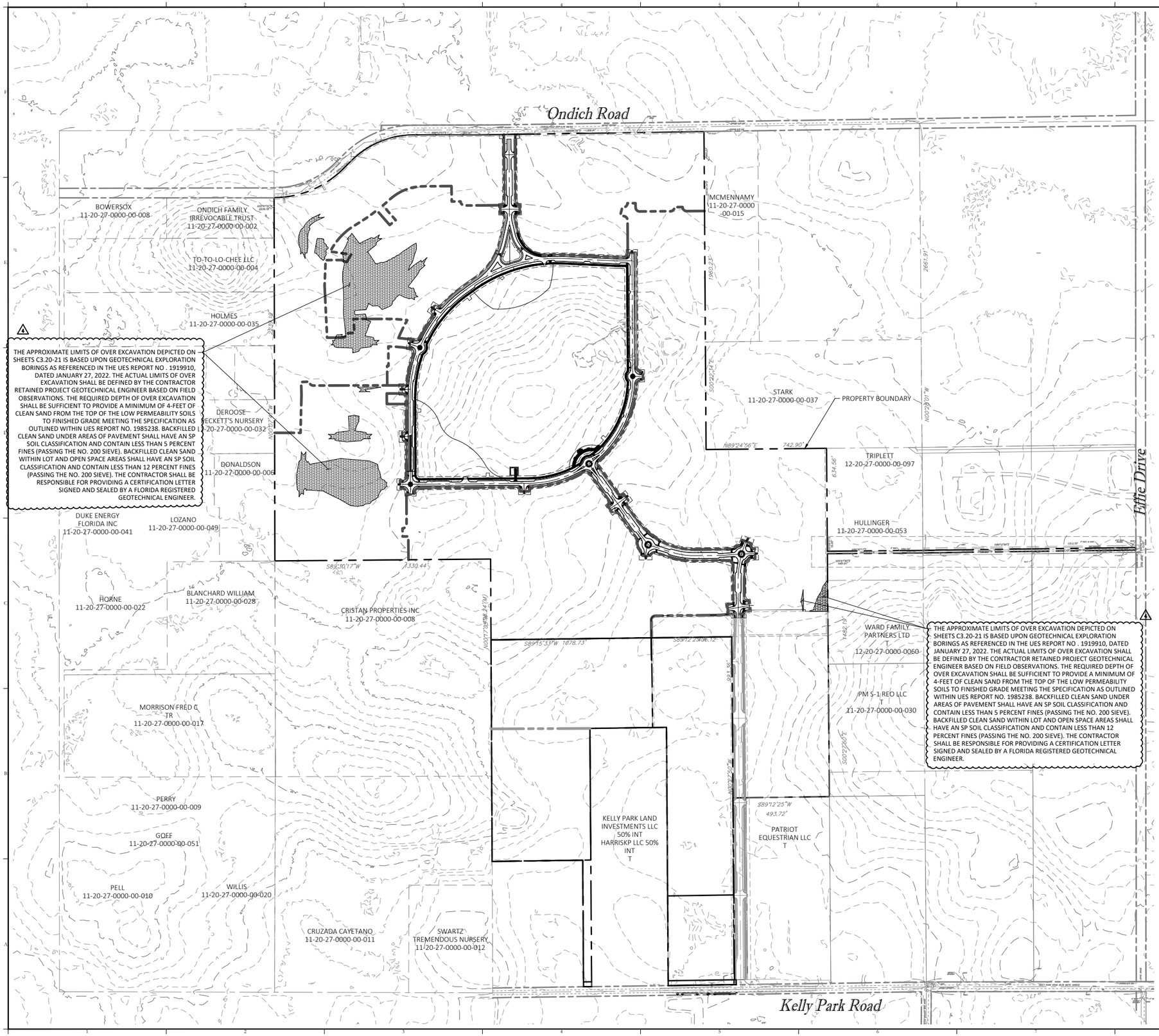
SCALE IN FEET: 1" = 150'

CHECKED BY: MDS
APPROVED BY: MDS

SUBMISSIONS/REVISIONS

NO	DATE	DESCRIPTION
4	06/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
	12/27/2022	SUBMIT TO CITY OF APOPKA

VERTICAL DATUM: NAVD 88
JOB NO.: 21-027B
DESIGNED BY: MDS
DRAWN BY: TV/KL



Key Map:

150 0 300 600
SCALE IN FEET

Grading Legend

Symbol	Description
--74--	EXISTING CONTOUR
	AREA OF OVEREXCAVATION

NOTE:
THE EXCAVATIONS SHALL BE PERFORMED AS FOLLOWS:

1. THE EXCAVATIONS SHALL BE PERFORMED WITHIN THE ENTIRE WIDTH OF THE RIGHT-OF-WAY WITHIN THE ROADWAY SECTIONS LISTED ABOVE.
2. THE EXCAVATION SHALL EXTEND TO A MINIMUM DEPTH OF 3 FEET BELOW THE FINISHED PAVEMENT A CROSS-SECTION DETAIL IS PRESENTED ON DETAIL A-1 ON THIS SHEET.
3. THE EXCAVATIONS SHALL BE BACKFILLED WITH CLEAN SAND HAVING LESS THAN 5 PERCENT SOIL FINES (PASSING THE NO. 200 SIEVE), HAVING THE CLASSIFICATION OF SP ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM. THE BACKFILL MAY CONSIST OF NATIVE SANDS, PROVIDE THAT THEY MEET THIS SPECIFICATION.
4. THE EXCAVATION AND BACKFILLING OPERATIONS SHALL BE PERFORMED UNDER FULL-TIME OBSERVATION BY A UNIVERSAL ENGINEERING SCIENCES REPRESENTATIVE TO BE RETAINED BY THE CONTRACTOR.
5. SUBGRADE COMPACTION BENEATH THE ROADWAYS AND ROADWAY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.

SOURCE: UNIVERSAL ENGINEERING SERVICES, REPORT NO. 1985238, DATED 10/26/2022.

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SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 300'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

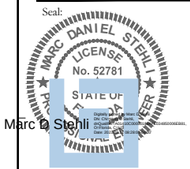
Sheet Title:

OVER EXCAVATION PLAN

Sheet No.:

C3.21

Seal:



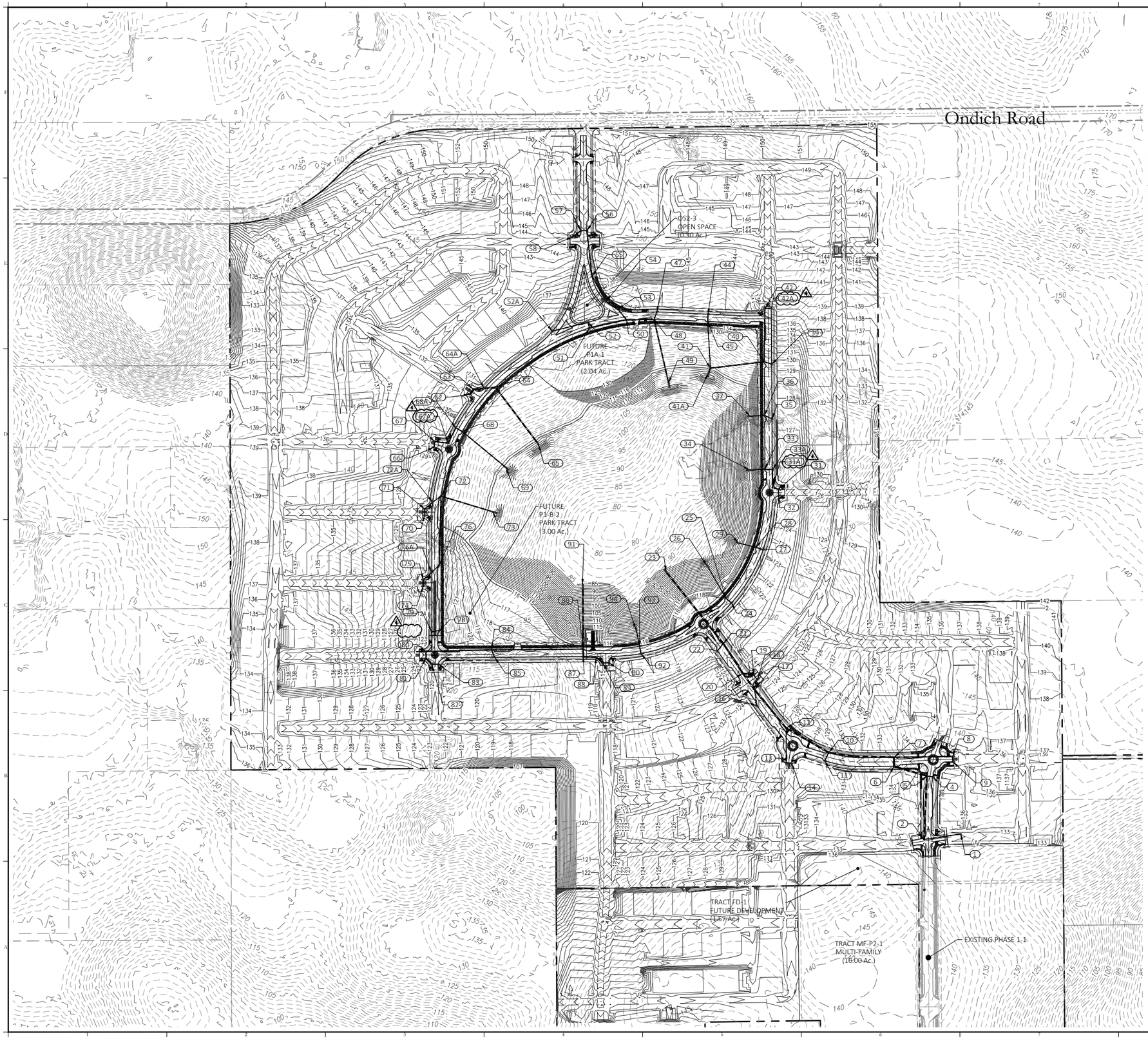
MARC DANIEL STEHLI
P.E. NO. 052781
DATE: August 7, 2023

Marc D Stehli

POULOS & BENNETT

Poulos & Bennett, LLC
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Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-OEP



N

100 0 200 400

SCALE IN FEET

Drainage Legend

Existing	Utility Type	Proposed
	STORM PIPE	
	STORM MANHOLE	
	P-1/P-2 INLET	
	MITERED END	
	DRAINAGE FLOW ARROW	

Grading Legend

Symbol	Description
× 100.00 EX	EXISTING SPOT GRADE
104.00	PROPOSED SPOT GRADE
101.00 FL	PROPOSED SWALE/DITCH FLOW LINE ELEV.
	FLOW ARROW
	DRAINAGE CONVEYANCE SWALE
74	EXISTING CONTOUR
74	PROPOSED CONTOUR

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APPROVED BY:	MDS
SCALE IN FEET:	1" = 200'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

OVERALL MASS GRADING & DRAINAGE PLAN

Sheet No.:

C4.00

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

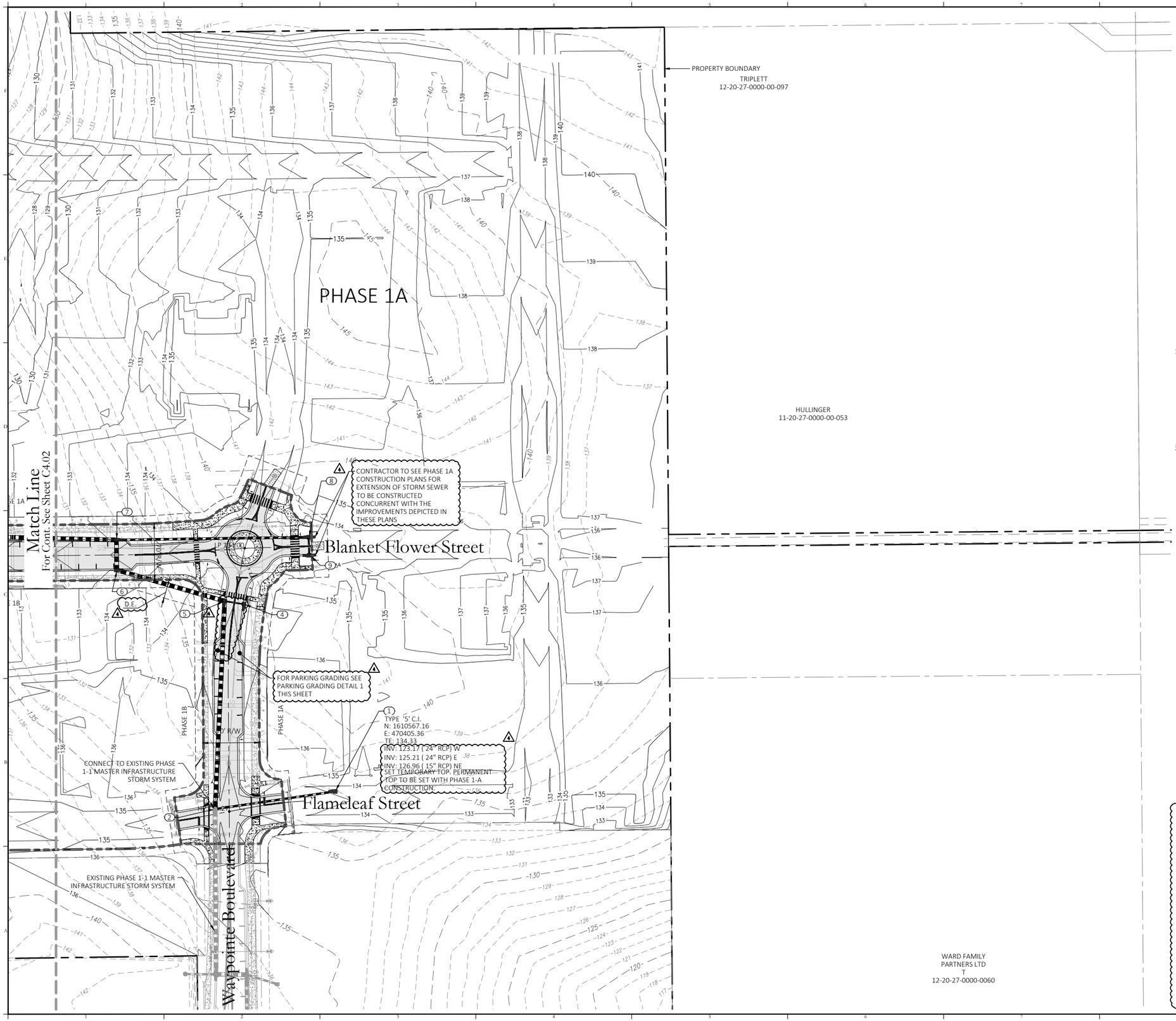
Marc D Stehli

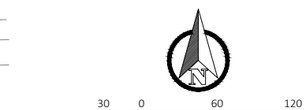
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LEGEND

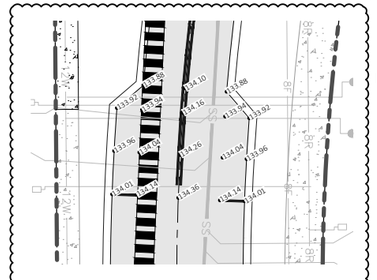
SYMBOL	DESCRIPTION
×82.7	EXISTING ELEVATION
82.7	PROPOSED ELEVATION
	PROPOSED FLOW ARROW
85	EXISTING MAJOR CONTOUR
84	EXISTING MINOR CONTOUR
85	PROPOSED MAJOR CONTOUR
84	PROPOSED MINOR CONTOUR
	BENCHMARK
	PROPOSED DRAINAGE SWALE & FLOW DIRECTION
B-2 100.2	BORING LOCATION
	PROPOSED FES, CI, MH & DBI
	SIDEWALK CONSTRUCTED WITH INFRASTRUCTURE
	SIDEWALK CONSTRUCTED BY HOMEBUILDER

GENERAL GRADING PLAN NOTES:

1. EXISTING TOPOGRAPHY PER MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY PER PEC SURVEYING AND MAPPING LLC, DATED MARCH 23, 2022.
2. ALL SLOPES STEEPER THAN 6:1 SHALL BE SODDED.
3. ALL SWALES LOCATED WITHIN THIS PROJECT SHALL BE CONSTRUCTED AS PART OF THE MASTER SURFACE WATER MANAGEMENT SYSTEM, NOT BY INDIVIDUAL LOT OWNERS.
4. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF THE SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET CITY OF APOPKA AND A.D.A. SPECIFICATIONS.
5. THE SECONDARY STORM SEWER HAS BEEN DESIGNED TO PROVIDE A MINIMUM OF 6-INCHES OF SEPARATION BETWEEN THE CURB GUTTER ELEVATION AND THE STORM WATER HYDRAULIC GRADE LINE.

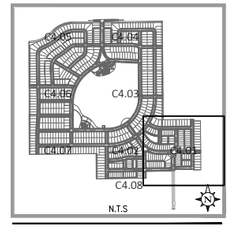
MASS GRADING NOTES:

1. THE FOLLOWING HAS BEEN PREPARED TO PROVIDE GENERAL MASS GRADING AND EARTHWORK RECOMMENDATIONS FOR THE OVERALL PROJECT. THE CONTRACTOR SHOULD REFER TO THE PROJECT GEOTECHNICAL REPORTS FOR ADDITIONAL REQUIREMENTS OR SPECIAL CONDITIONS THAT MAY APPLY.
2. PRIOR TO PLACING ANY FILL, THE CONTRACTOR IS RESPONSIBLE FOR STRIPPING AND GRUBBING THIS DESIGNATED CONSTRUCTION SITE, REMOVING SUBSURFACE VEGETATION, ROOTS AND OTHER DELETERIOUS MATERIALS. THE STRIPPED AND GRUBBED AREAS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FILL.
3. FOLLOWING SATISFACTORY STRIPPING AND GRUBBING, THE NATURAL IN-PLACE SOILS SHALL BE PROOF ROLLED USING A LARGE VIBRATORY ROLLER OR OTHER SUITABLE COMPACTION EQUIPMENT APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER. THE NATURAL SURFACE SOILS SHALL BE COMPACTED TO A FIRM AND UNYIELDING CONDITION AND TO A MINIMUM DENSITY EQUIVALENT TO 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). YIELDING OR UNSUITABLE SOILS SHALL BE REMOVED AND REPLACED WITH COMPACTED FILL AS DISCUSSED BELOW.
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5. FILL MATERIAL USED FOR MASS GRADING SHALL CONSIST OF FINE TO MEDIUM SAND WITH LESS THAN 12 PERCENT FINES PASSING THE NO. 200 SIEVE AND BE FREE OF RUBBLE, ORGANICS, CLAY, DEBRIS, AND OTHER UNSUITABLE MATERIAL. IN GENERAL, THE FILL MATERIAL GENERATED FROM THE ON-SITE PONDS COMPRISE RELATIVELY CLEAN TO SLIGHTLY SILTY FINE SANDS GRADING SILTY TO CLAYEY IN COMPOSITION WITH DEPTH (VARIES). IT IS RECOMMENDED THAT THE DEEPER MORE SILTY/CLAYEY SOILS (I.E. GREATER THAN 12 PERCENT FINES) WILL NEED TO FIRST BE EXCAVATED AND STOCKPILED IN ORDER TO DRY TO THE MOISTURE CONDITION, IT IS RECOMMENDED THAT THESE MATERIALS BE EVALUATED AND APPROVED BY THE OWNERS GEOTECHNICAL ENGINEER PRIOR TO THEIR INTENDED USE. IN GENERAL, IT IS RECOMMENDED THAT THIS MATERIAL BE USED IN AREAS WHERE IT CAN BE PLACED AT LEAST 3 FEET BELOW ANTICIPATED FINISHED GRADES.
6. CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER TO EVALUATE ALL SOILS AT THE PROPOSED FINISHED GRADE. IN AREAS WHERE PROPOSED FINISHED GRADE EXPOSES MATERIAL OF SILTY/CLAYEY SOILS (GREATER THAN 12 PERCENT FINES), THE OWNER'S GEOTECHNICAL ENGINEER SHALL PROVIDE RECOMMENDATIONS FOR UNDERCUTTING AND BACKFILL OF THESE AREAS. IN GENERAL, 3'-4' OF CLEAN SAND SHALL BE PROVIDED OVER THE CLAYEY/ SILTY SOILS AT A MINIMUM.
7. ALLOWABLE TOLERANCES FOR FINISHED GRADES SHALL BE 0.0 FEET BELOW AND 0.2 FEET ABOVE THE GRADES INDICATED ON THE MASS GRADING DRAWINGS. OWNER RESERVES THE RIGHT TO MODIFY FINAL FILL ELEVATIONS PRIOR TO COMPLETION OF FILL PLACEMENT.



1 PARKING DETAIL
1" = 20'

Key Map:



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SCALE IN FEET:	1" = 60'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

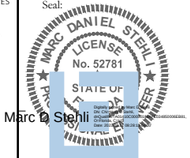
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GRADING & DRAINAGE PLAN 1

Sheet No.:

C4.01

Seal:



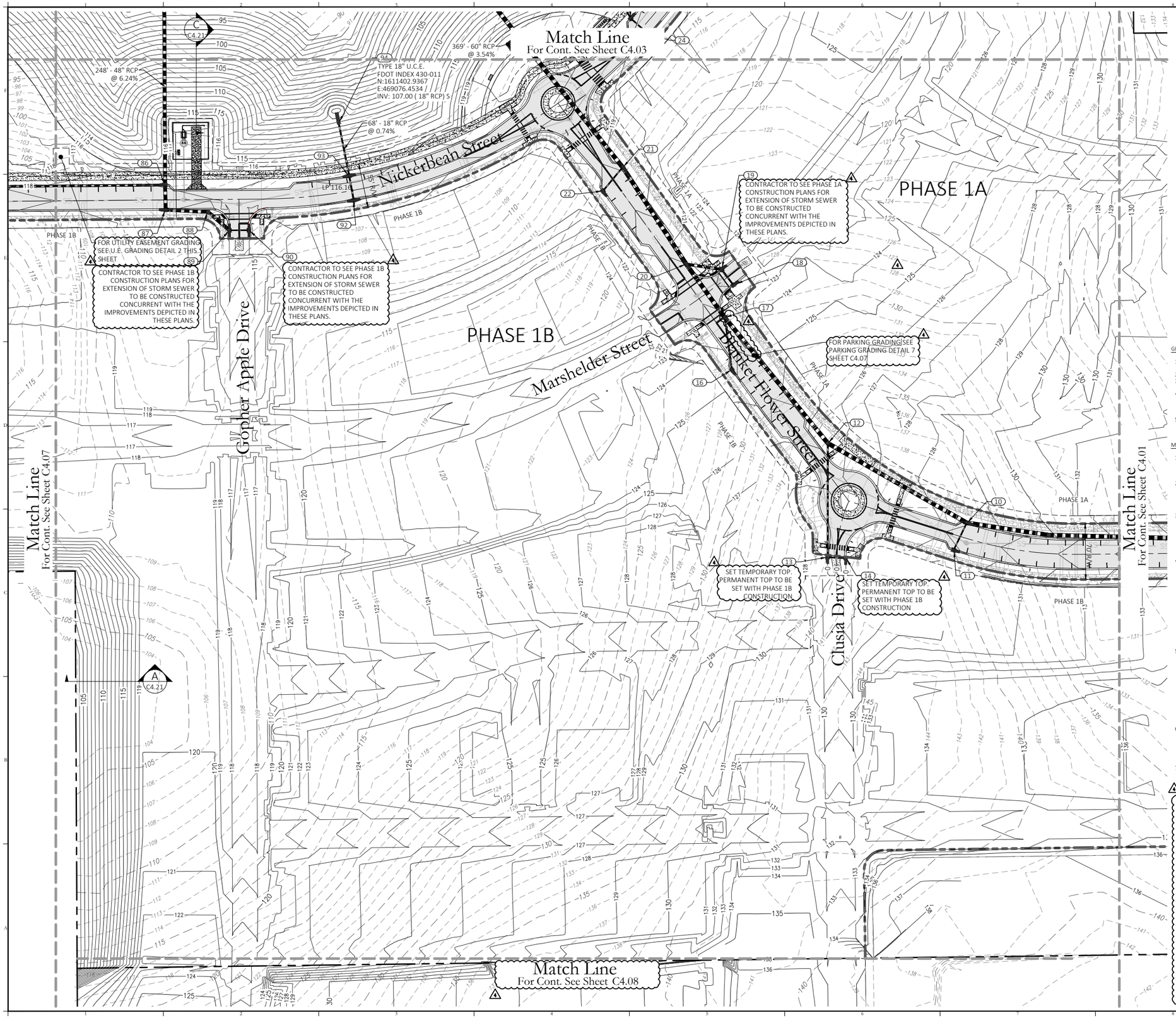
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Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-GDP



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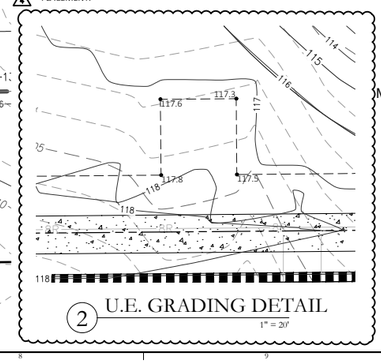
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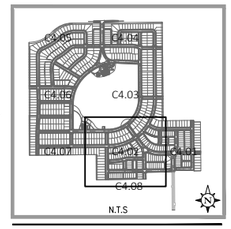
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2 U.E. GRADING DETAIL
1" = 20'

Key Map:



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Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

GRADING & DRAINAGE PLAN 2

Sheet No.:

C4.02

Seal:



Marc D Stehli

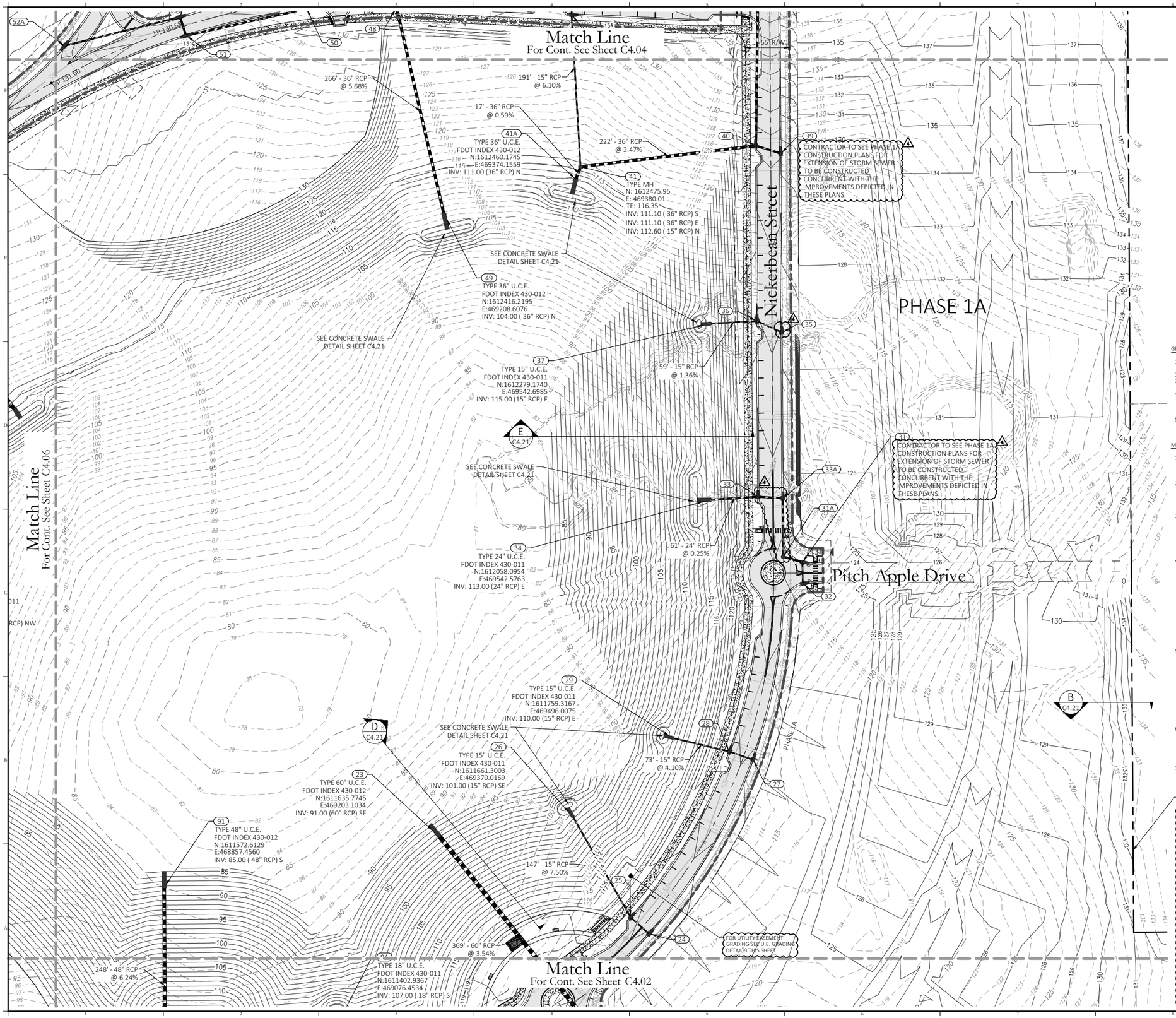
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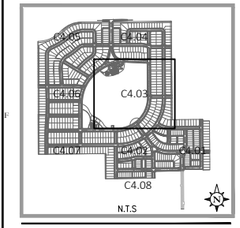
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CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

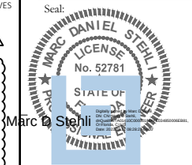
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GRADING & DRAINAGE PLAN 3

Sheet No.:

C4.03

Seal:



Marc D Stehli

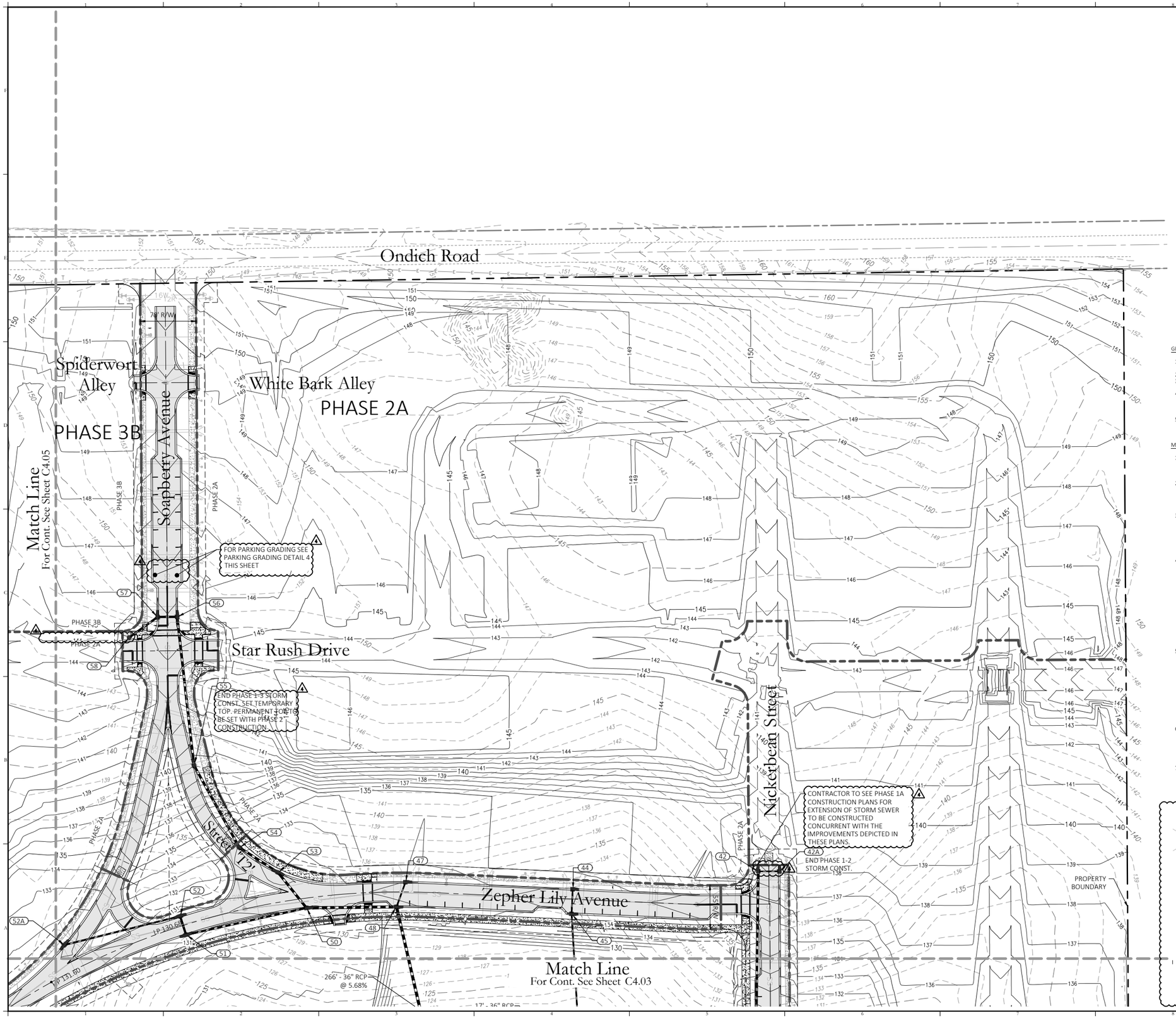
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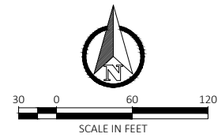
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LEGEND

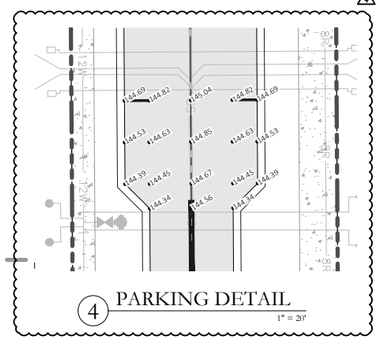
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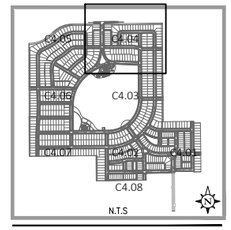
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Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

GRADING & DRAINAGE PLAN 4

Sheet No.:

C4.04

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

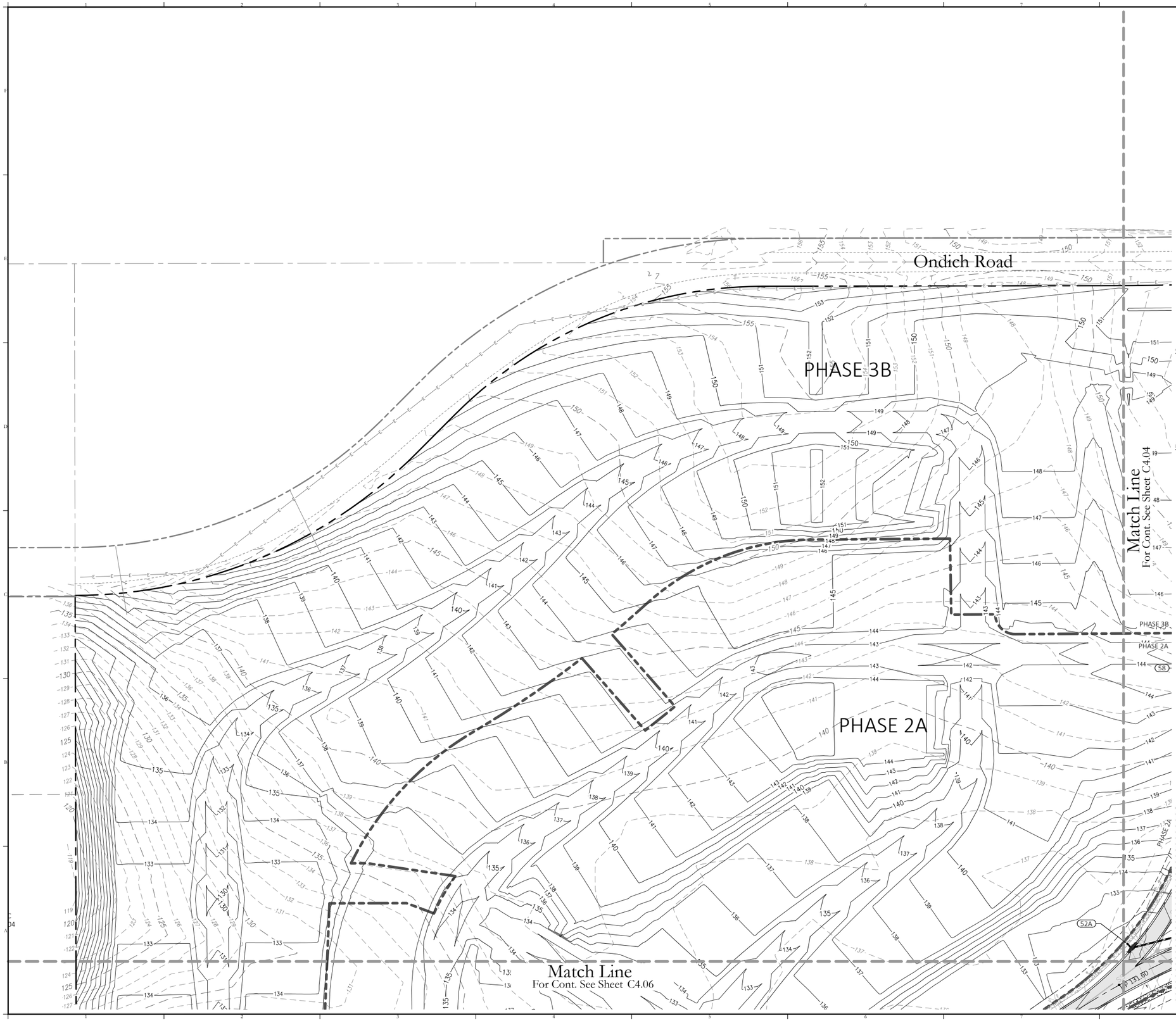
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LEGEND

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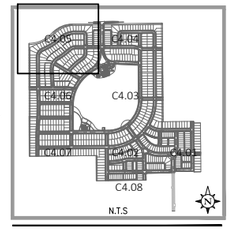
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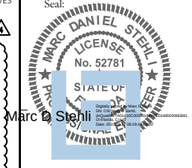
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GRADING & DRAINAGE PLAN 5

Sheet No.:

C4.05

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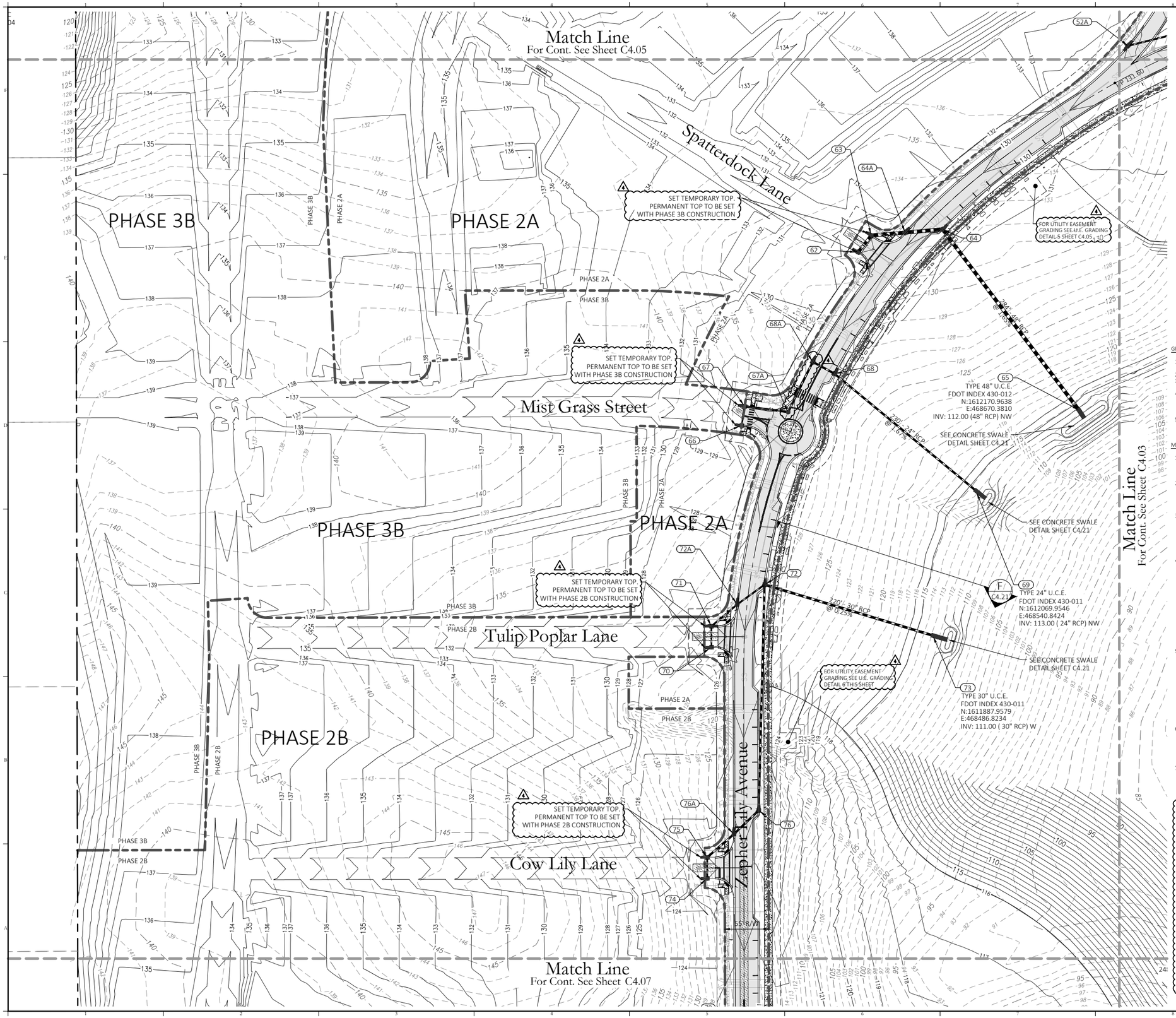


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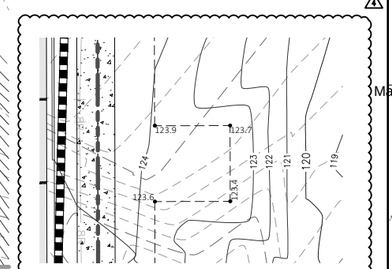
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4. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS AND HANDICAP RAMPS AT ALL INTERSECTIONS OF THE SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET CITY OF APOPKA AND A.D.A. SPECIFICATIONS.
5. THE SECONDARY STORM SEWER HAS BEEN DESIGNED TO PROVIDE A MINIMUM OF 6-INCHES OF SEPARATION BETWEEN THE CURB GUTTER ELEVATION AND THE STORM WATER HYDRAULIC GRADE LINE.

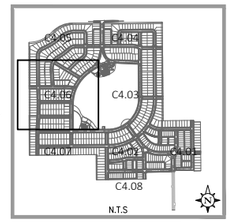
MASS GRADING NOTES:

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2. PRIOR TO PLACING ANY FILL, THE CONTRACTOR IS RESPONSIBLE FOR STRIPPING AND GRUBBING THIS DESIGNATED CONSTRUCTION SITE, REMOVING SUBSURFACE VEGETATION, ROOTS AND OTHER DELETERIOUS MATERIALS. THE STRIPPED AND GRUBBED AREAS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FILL.
3. FOLLOWING SATISFACTORY STRIPPING AND GRUBBING, THE NATURAL IN-PLACE SOILS SHALL BE PROOF ROLLED USING A LARGE VIBRATORY ROLLER OR OTHER SUITABLE COMPACTION EQUIPMENT APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER. THE NATURAL SURFACE SOILS SHALL BE COMPACTED TO A FIRM AND UNYIELDING CONDITION AND TO A MINIMUM DENSITY EQUIVALENT TO 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). YIELDING OR UNSUITABLE SOILS SHALL BE REMOVED AND REPLACED WITH COMPACTED FILL AS DISCUSSED BELOW.
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5. FILL MATERIAL USED FOR MASS GRADING SHALL CONSIST OF FINE TO MEDIUM SAND WITH LESS THAN 12 PERCENT FINES PASSING THE NO. 200 SIEVE AND BE FREE OF RUBBLE, ORGANICS, CLAY, DEBRIS, AND OTHER UNSUITABLE MATERIAL. IN GENERAL, THE FILL MATERIAL GENERATED FROM THE ON-SITE PONDS COMPRISE RELATIVELY CLEAN TO SLIGHTLY SILTY FINE SAND, GRADING SILTY TO CLAYEY IN COMPOSITION WITH DEPTH (VARIES). IT IS RECOMMENDED THAT THE DEEPER MORE SILTY/CLAYEY SOILS (I.E. GREATER THAN 12 PERCENT FINES) WILL NEED TO FIRST BE EXCAVATED AND STOCKPILED IN ORDER TO DRY TO THE MOISTURE CONDITION, IT IS RECOMMENDED THAT THESE MATERIALS BE EVALUATED AND APPROVED BY THE OWNERS GEOTECHNICAL ENGINEER PRIOR TO THEIR INTENDED USE. IN GENERAL, IT IS RECOMMENDED THAT THIS MATERIAL BE USED IN AREAS WHERE IT CAN BE PLACED AT LEAST 3 FEET BELOW ANTICIPATED FINISHED GRADES.
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7. ALLOWABLE TOLERANCES FOR FINISHED GRADES SHALL BE 0.0 FEET BELOW AND 0.2 FEET ABOVE THE GRADES INDICATED ON THE MASS GRADING DRAWINGS. OWNER RESERVES THE RIGHT TO MODIFY FINAL FILL ELEVATIONS PRIOR TO COMPLETION OF FILL PLACEMENT.



6 U.E. GRADING DETAIL
1" = 20'

Key Map:



NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
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SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
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DESIGNED BY:	MDS
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SCALE IN FEET:	1" = 60'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

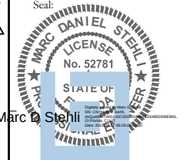
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GRADING & DRAINAGE PLAN 6

Sheet No.:

C4.06

Seal:

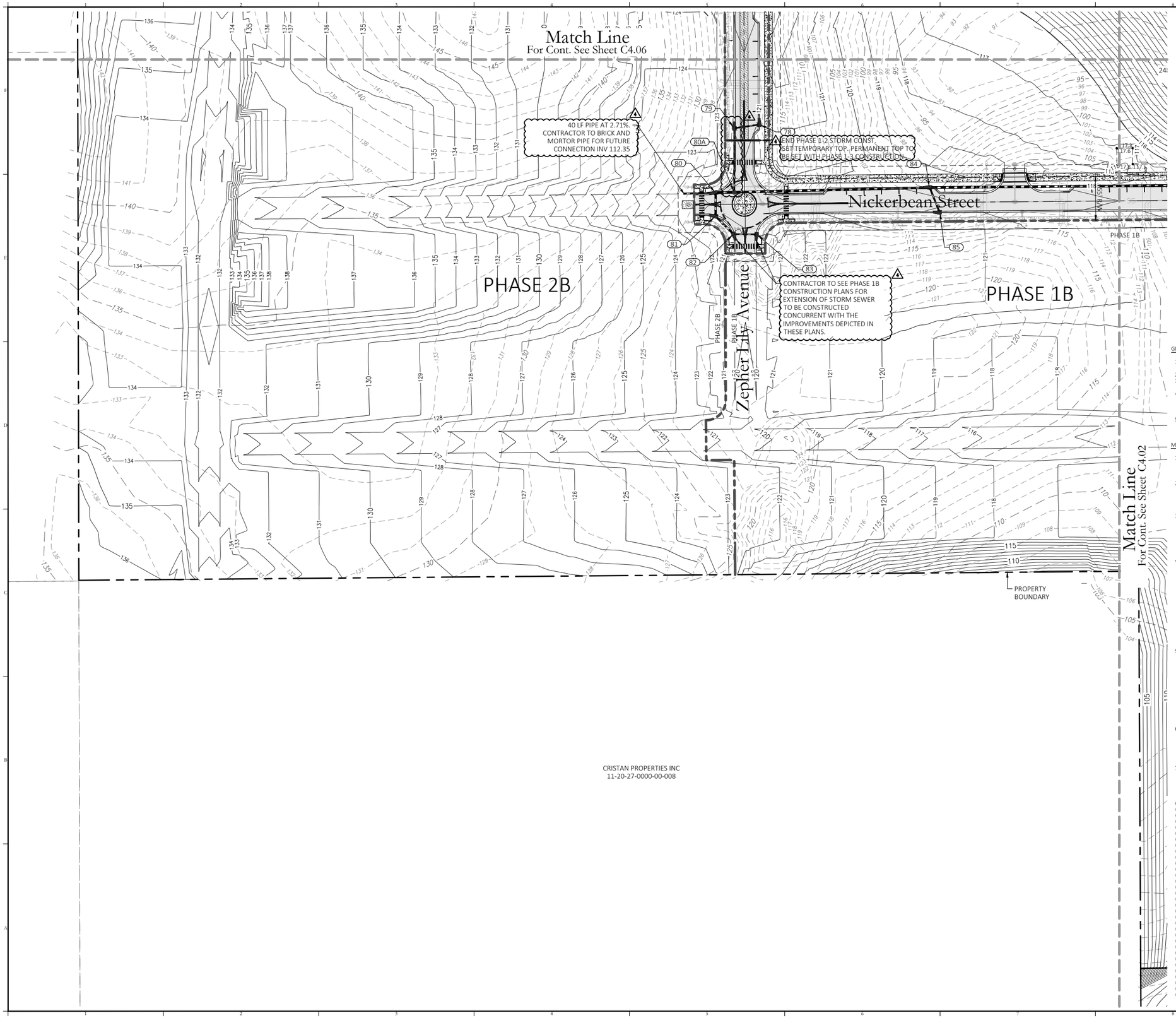


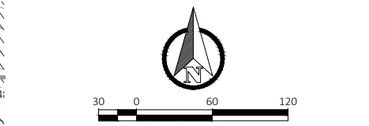
MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT

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Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-GDP





LEGEND

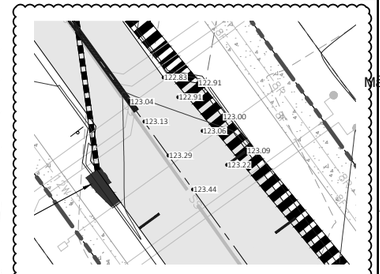
SYMBOL	DESCRIPTION
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84	PROPOSED MINOR CONTOUR
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	PROPOSED DRAINAGE SWALE & FLOW DIRECTION
R-2 100.2	BORING LOCATION
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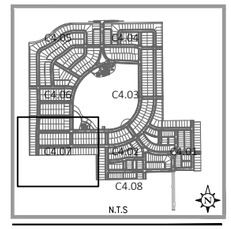
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7 PARKING DETAIL
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Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

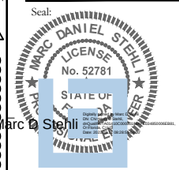
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GRADING & DRAINAGE PLAN 7

Sheet No.:

C4.07

Seal:



Marc D Stehli

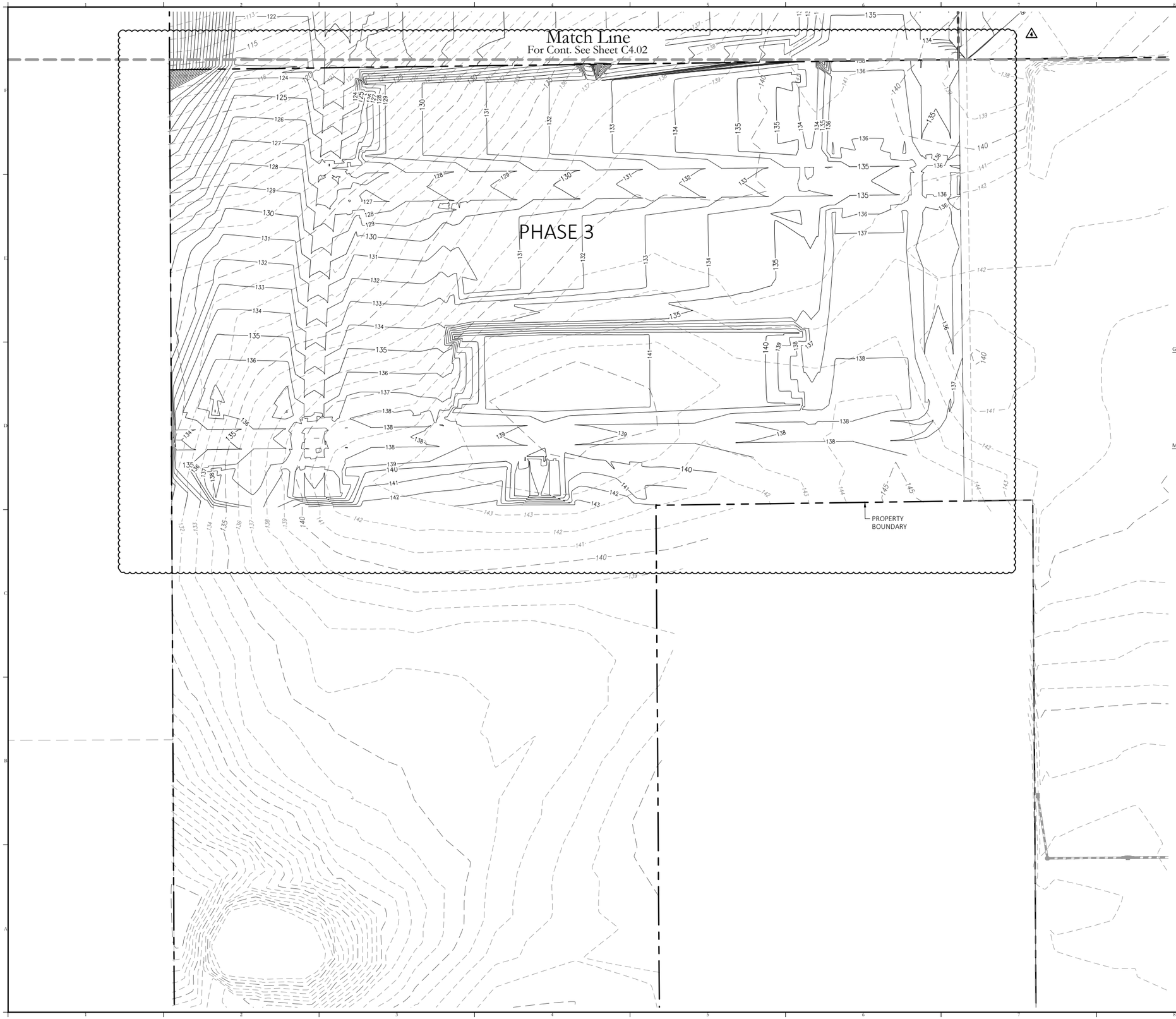
MARC DANIEL STEHLI
P.E. NO. 052781

DATE: August 7, 2023

POULOS & BENNETT

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2602 E. Livingston St., Orlando, FL 32803
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Z:\2021\21-027 CALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-GDP



30 0 60 120
SCALE IN FEET

LEGEND

SYMBOL	DESCRIPTION
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82.7	PROPOSED ELEVATION
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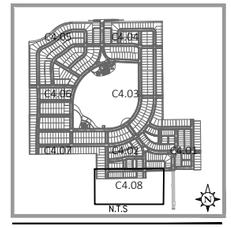
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Key Map:



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CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

GRADING & DRAINAGE PLAN 7

Sheet No.:

C4.08 (4)

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA REGISTERED ENGINEER

Marc D Stehli

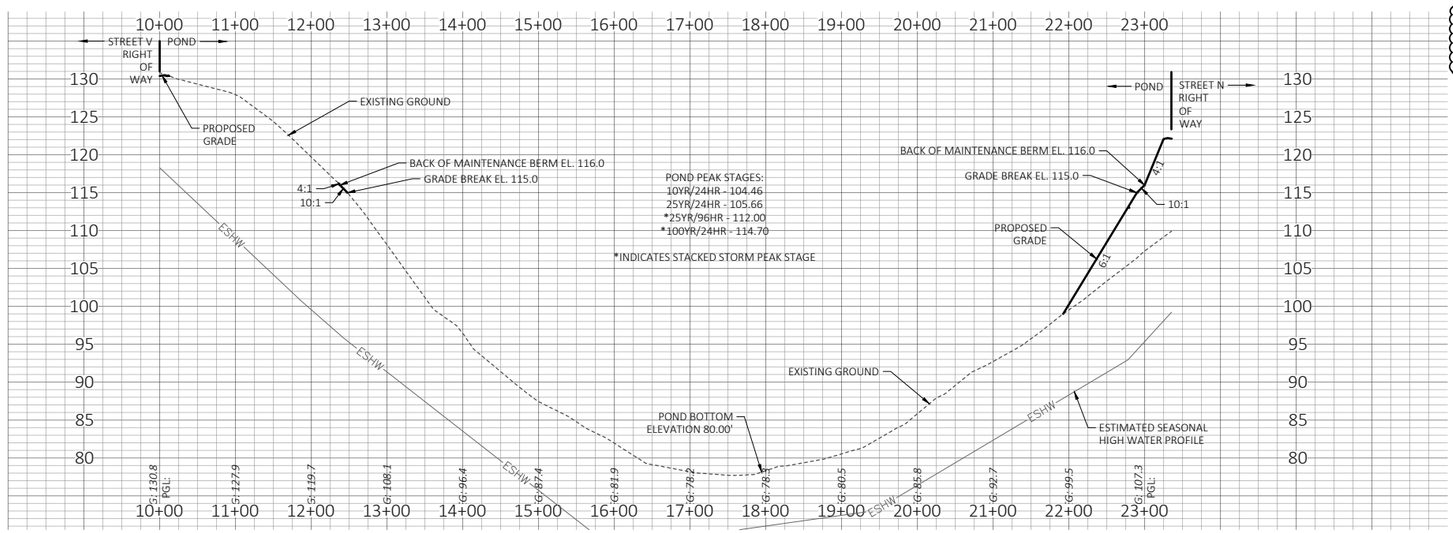
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A POND SW-1 SECTION
NTS

NOTE: ALL POND SIDE SLOPES, MAINTENANCE BERM, TRANSITION SLOPES AND DISTURBED AREAS WITHIN STORMWATER TRACT SW-1 SHALL BE SODDED. SOD SHALL BE PINNED FOR AREAS 6:1 OR STEEPER.

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Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

GRADING SECTIONS & DETAILS

Sheet No.:

C4.20

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

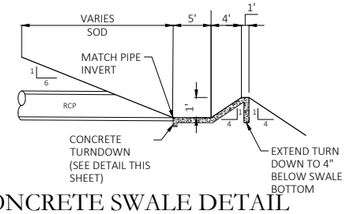
MARC DANIEL STEHLI
P.E. NO. 0052781

DATE: August 7, 2023

POULOS & BENNETT

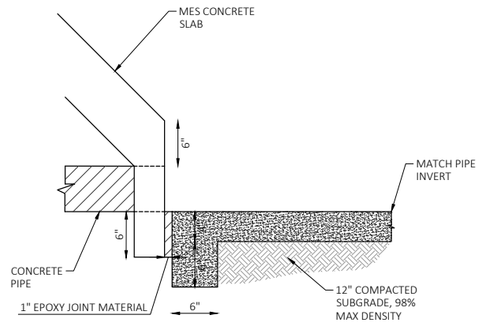
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-GOTLS



CONCRETE SWALE DETAIL

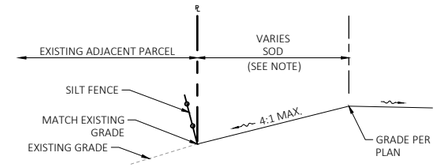
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CONCRETE TURNDOWN DETAIL

N.T.S.

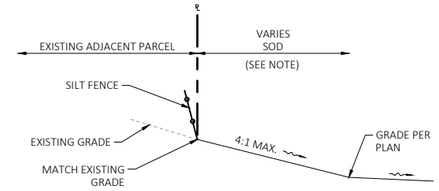
NOTE: CONCRETE SHALL BE 3000 PSI WITH FIBER REINFORCEMENT (3LBS/CY)



NOTE: NEWLY GRADED SLOPES AT THE PERIMETER OF THE SITE WITH SLOPES 4:1 OR STEEPER WILL BE SODDED. ALL OTHER AREAS WILL BE SEEDED AND MULCHED.

A TYPICAL PROPERTY LINE GRADING SECTION

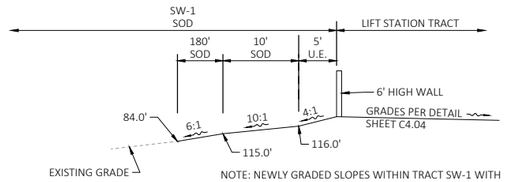
NTS



NOTE: NEWLY GRADED SLOPES AT THE PERIMETER OF THE SITE WITH SLOPES 4:1 OR STEEPER WILL BE SODDED. ALL OTHER AREAS WILL BE SEEDED AND MULCHED.

B TYPICAL PROPERTY LINE GRADING SECTION

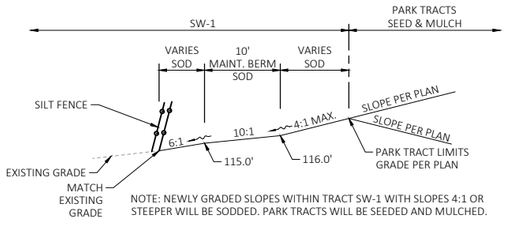
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NOTE: NEWLY GRADED SLOPES WITHIN TRACT SW-1 WITH SLOPES 4:1 OR STEEPER WILL BE SODDED. ALL OTHER AREAS WILL BE SEEDED AND MULCHED.

C LIFT STATION - SW-1 GRADING SECTION

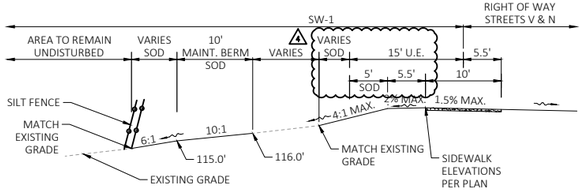
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NOTE: NEWLY GRADED SLOPES WITHIN TRACT SW-1 WITH SLOPES 4:1 OR STEEPER WILL BE SODDED. PARK TRACTS WILL BE SEEDED AND MULCHED.

D PARK TRACTS - SW-1 GRADING SECTION

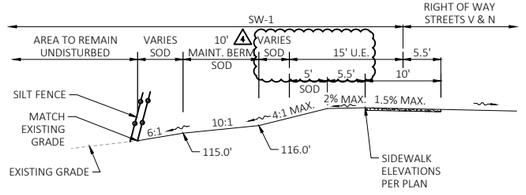
NTS



NOTE: NEWLY GRADED SLOPES WITHIN TRACT SW-1 WITH SLOPES 4:1 OR STEEPER WILL BE SODDED. ALL OTHER AREAS WILL BE SEEDED AND MULCHED.

F TYPICAL GRADING SECTION

NTS



NOTE: NEWLY GRADED SLOPES WITHIN TRACT SW-1 WITH SLOPES 4:1 OR STEEPER WILL BE SODDED. ALL OTHER AREAS WILL BE SEEDED AND MULCHED.

E RIGHT OF WAY - SW-1 GRADING SECTION

NTS

Key Map:

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CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	NTS

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

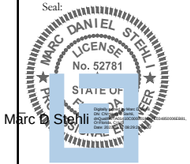
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GRADING SECTIONS & DETAILS

Sheet No.:

C4.21

Seal:



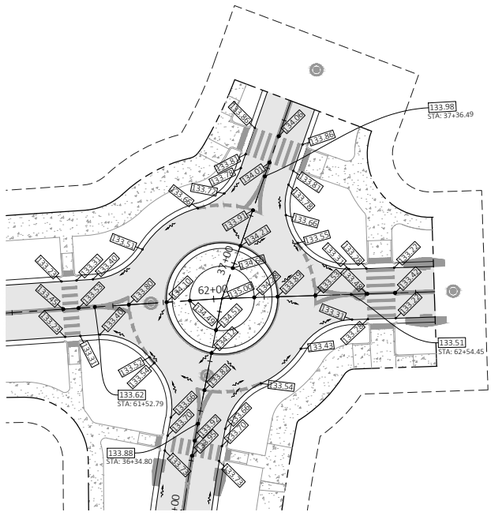
MARC DANIEL STEHLI
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POULOS & BENNETT

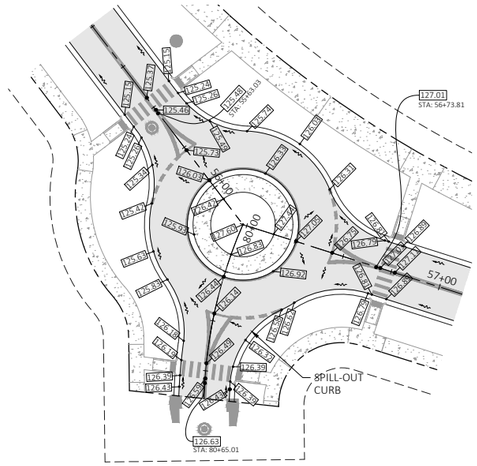
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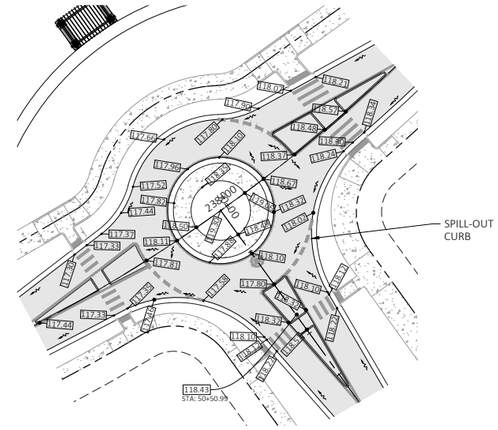
Waypointe Blvd and Blanket Flower Street Roundabout

SEE SHEETS C6.00 AND C6.02 1"=30'



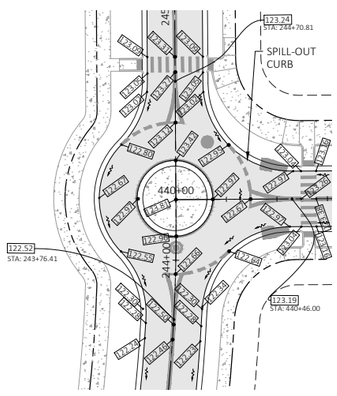
Blanket Flower Street and Clusia Drive Roundabout

SEE SHEETS C6.01 AND C6.12 1"=30'



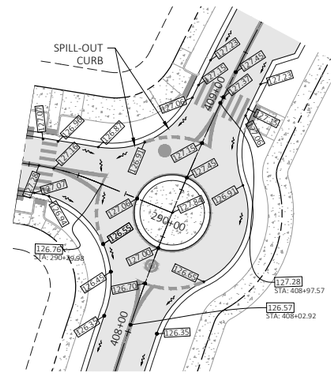
Blanket Flower Street and Nickerbean Street Roundabout

SEE SHEETS C6.01 AND C6.04 1"=30'



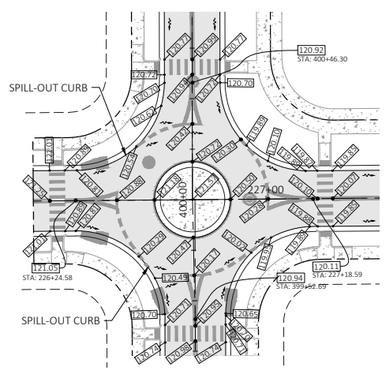
Nickerbean Street and Pitch Apple Drive Roundabout

SEE SHEETS C6.04 AND C6.14 1"=30'



Zepher Lily Avenue and Mist Grass Street Roundabout

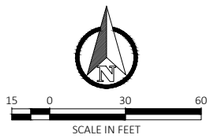
SEE SHEETS C6.09 AND C6.17 1"=30'



Zepher Lily Avenue and Nickerbean Street Roundabout

SEE SHEETS C6.03 AND C6.08 1"=30'

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Jurisdiction:

CITY of APOPKA, FL

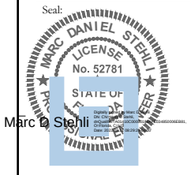
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ROUNDABOUT & INTERSECTION GRADING DETAILS

Sheet No.:

C4.30

Seal:



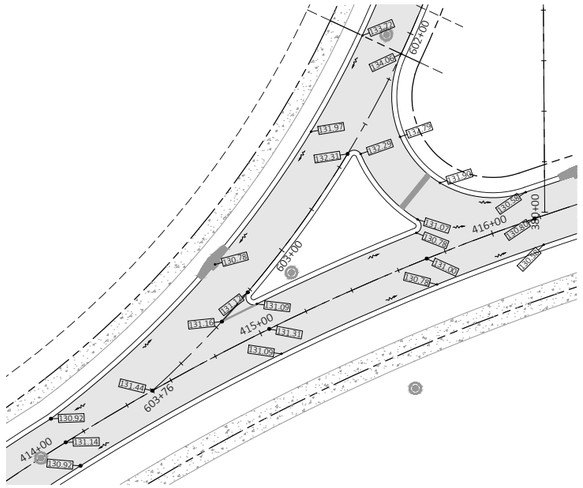
MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

Marc D Stehli

POULOS & BENNETT

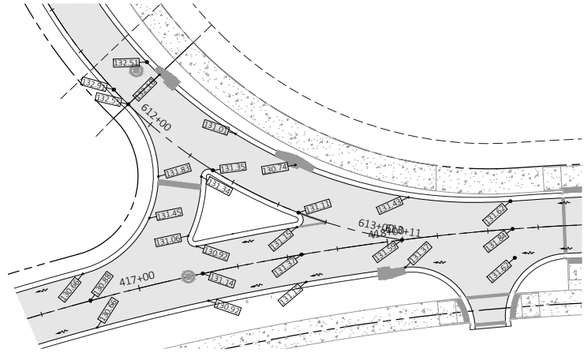
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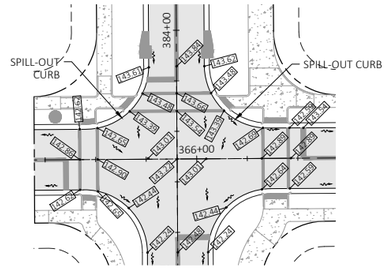
Intersection of Zepher Lily Avenue and Soapberry Avenue

1"=30'



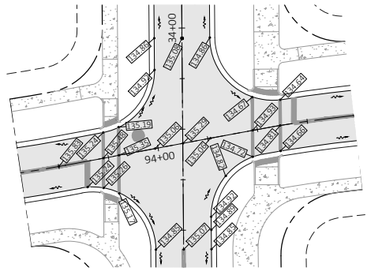
Intersection of Zepher Lily Avenue and Soapberry Avenue

1"=30'



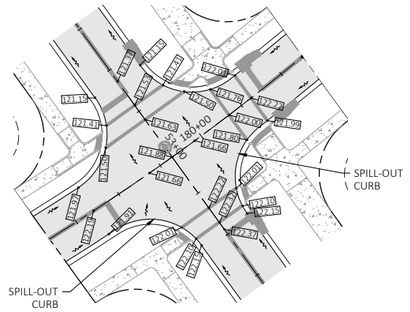
Intersection of Soapberry Avenue and Star Rush Drive

1"=30'



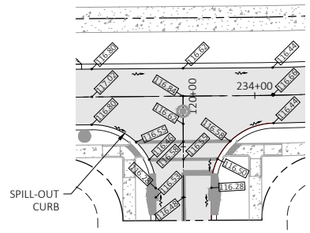
Intersection of Waypointe Blvd and Flameleaf Street

1"=30'



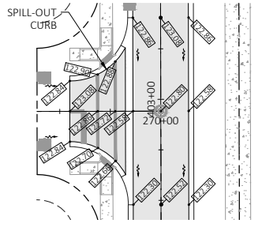
Intersection of Marshelder and Blanket Flower

1"=30'



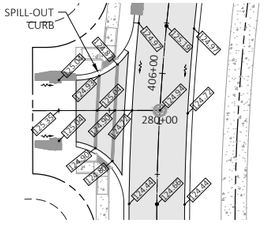
Intersection of Nickerbean Street and Gopher Apple Drive

1"=30'



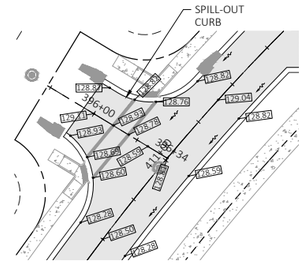
Intersection of Zepher Lily Avenue and Cow Lily Lane

1"=30'



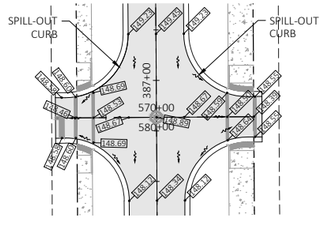
Intersection of Zepher Lily Avenue and Tulip Poplar Lane

1"=30'



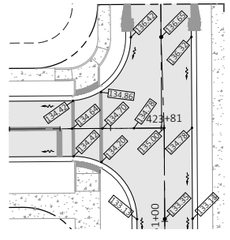
Intersection of Zepher Lily Avenue and Spatterdock Lane

1"=30'



Intersection of Soapberry and White Bark

1"=30'



Intersection of Zepher Lily Avenue and Nickerbean Street

1"=30'

Key Map:

15 0 30 60

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Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

ROUNDABOUT & INTERSECTION GRADING DETAILS

Sheet No.:

C4.31

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

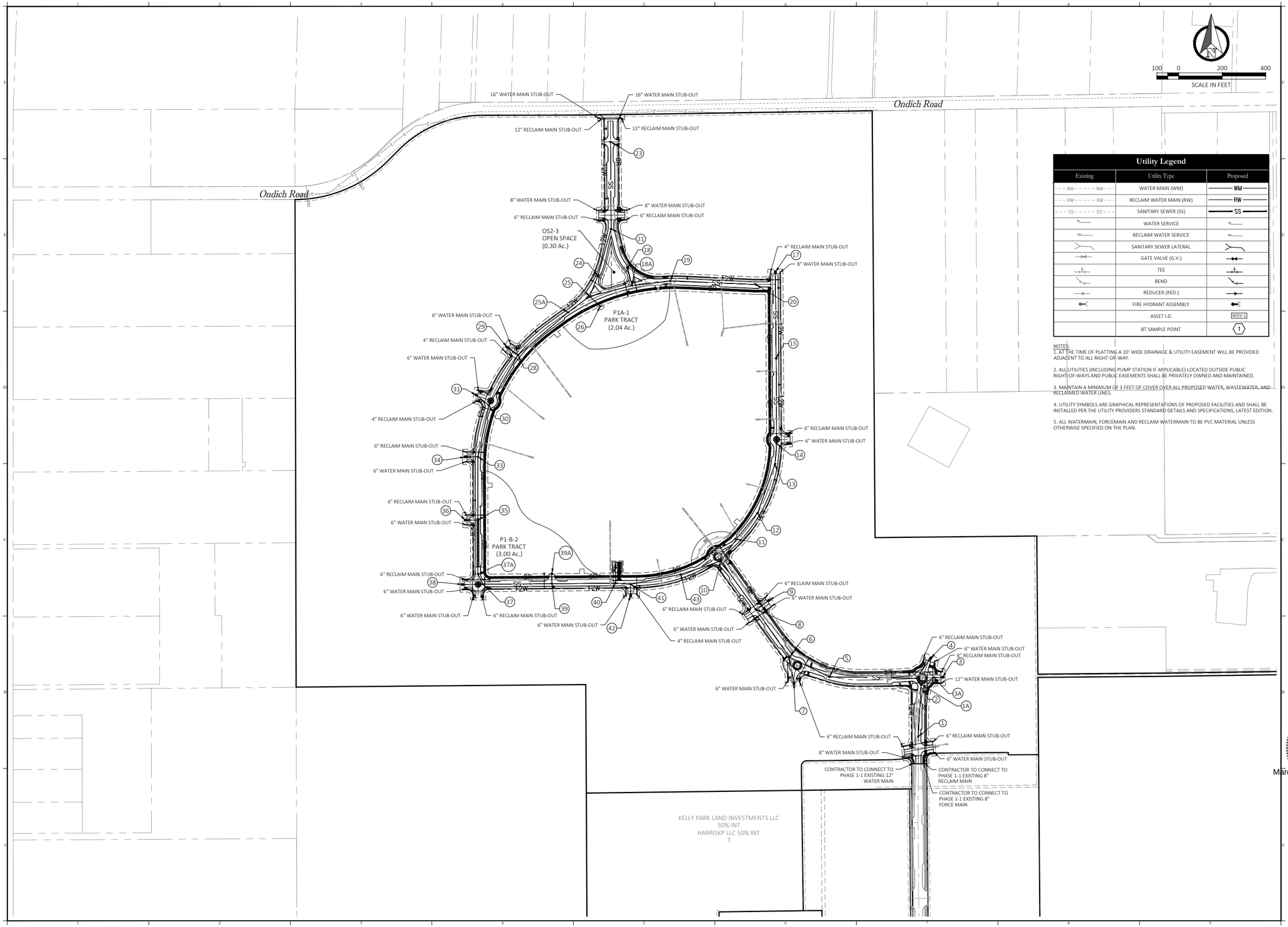
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Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
	TEE	
	BEND	
	REDUCER (RED.)	
	FIRE HYDRANT ASSEMBLY	
	ASSET I.D.	WGV-1
	BT SAMPLE POINT	1

NOTES:
1. AT THE TIME OF PLATTING A 10' WIDE DRAINAGE & UTILITY EASEMENT WILL BE PROVIDED ADJACENT TO ALL RIGHT-OF-WAY.

2. ALL UTILITIES (INCLUDING PUMP STATION IF APPLICABLE) LOCATED OUTSIDE PUBLIC RIGHT-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED.

3. MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER ALL PROPOSED WATER, WASTEWATER, AND RECLAIMED WATER LINES.

4. UTILITY SYMBOLS ARE GRAPHICAL REPRESENTATIONS OF PROPOSED FACILITIES AND SHALL BE INSTALLED PER THE UTILITY PROVIDERS STANDARD DETAILS AND SPECIFICATIONS, LATEST EDITION.

5. ALL WATERMAIN, FORCEMAIN AND RECLAIM WATERMAIN TO BE PVC MATERIAL UNLESS OTHERWISE SPECIFIED ON THE PLAN.

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Project Name:

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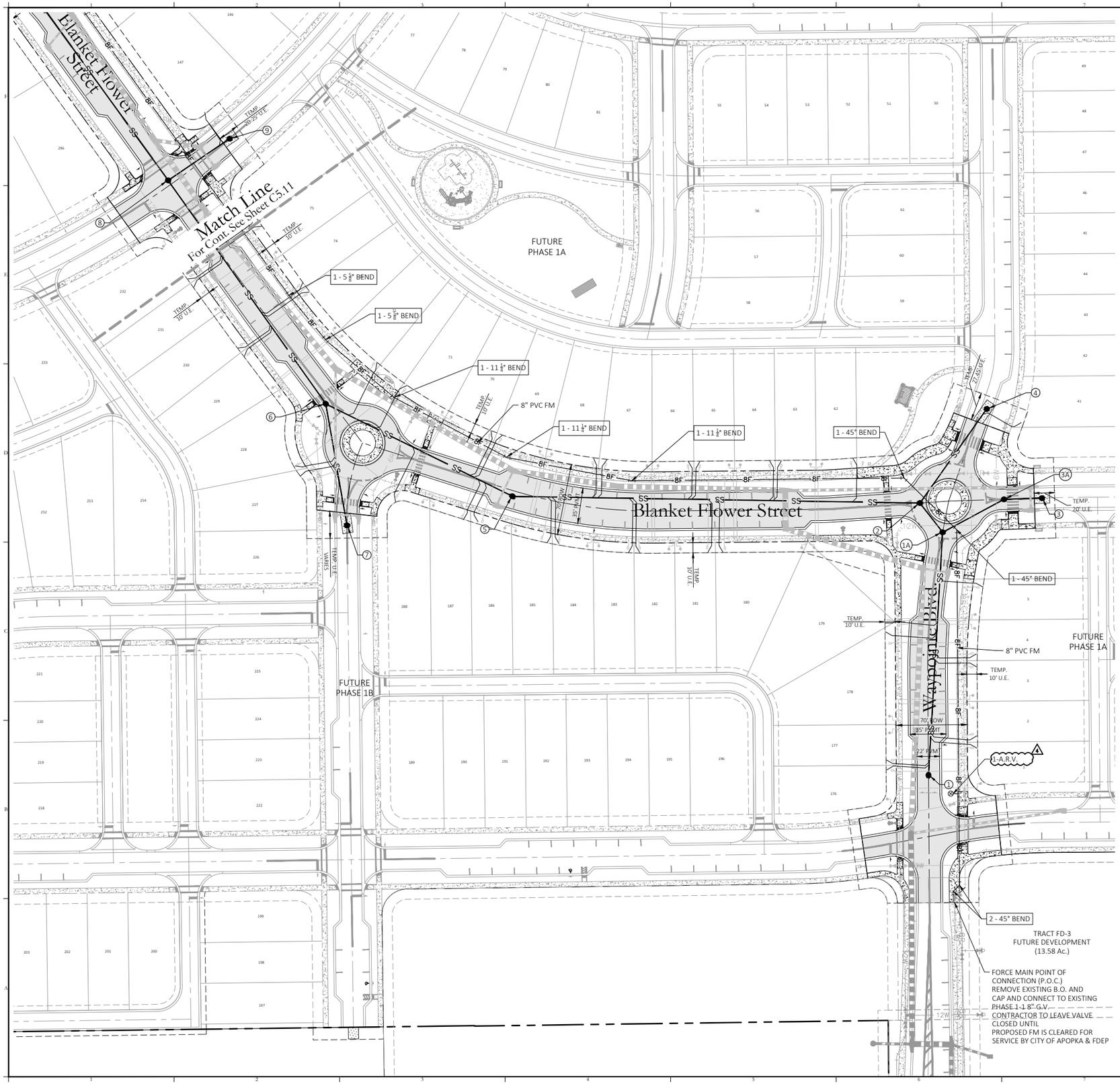
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MASTER UTILITY PLAN

Sheet No.:
C5.00

Seal:
MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER
Marc D Stehli
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DATE: August 7, 2023

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N

25 0 50 100

SCALE IN FEET

Utility Legend

Existing	Utility Type	Proposed
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RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
	TEE	
	BEND	
	REDUCER (RED.)	
	FIRE HYDRANT ASSEMBLY	
	ASSET I.D.	WGV-1
	BT SAMPLE POINT	1

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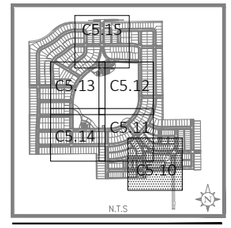
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5. ALL WATERMAIN, FORCEMAIN AND RECLAIM WATERMAIN TO BE PVC MATERIAL UNLESS OTHERWISE SPECIFIED ON THE PLAN.

6. FUTURE PHASES ARE SHOWN FOR REFERENCE ONLY.

7. TEMPORARY UTILITY EASEMENTS ADJACENT TO RIGHT-OF-WAY SHALL BE PLATTED AS PERMANENT WITH THE DEVELOPMENT OF FUTURE PHASES.

Key Map:



NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
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-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

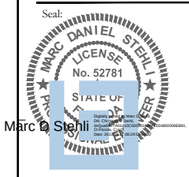
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WASTEWATER COLLECTION PLAN

Sheet No.:

C5.10

Seal:



Marc D Stehli

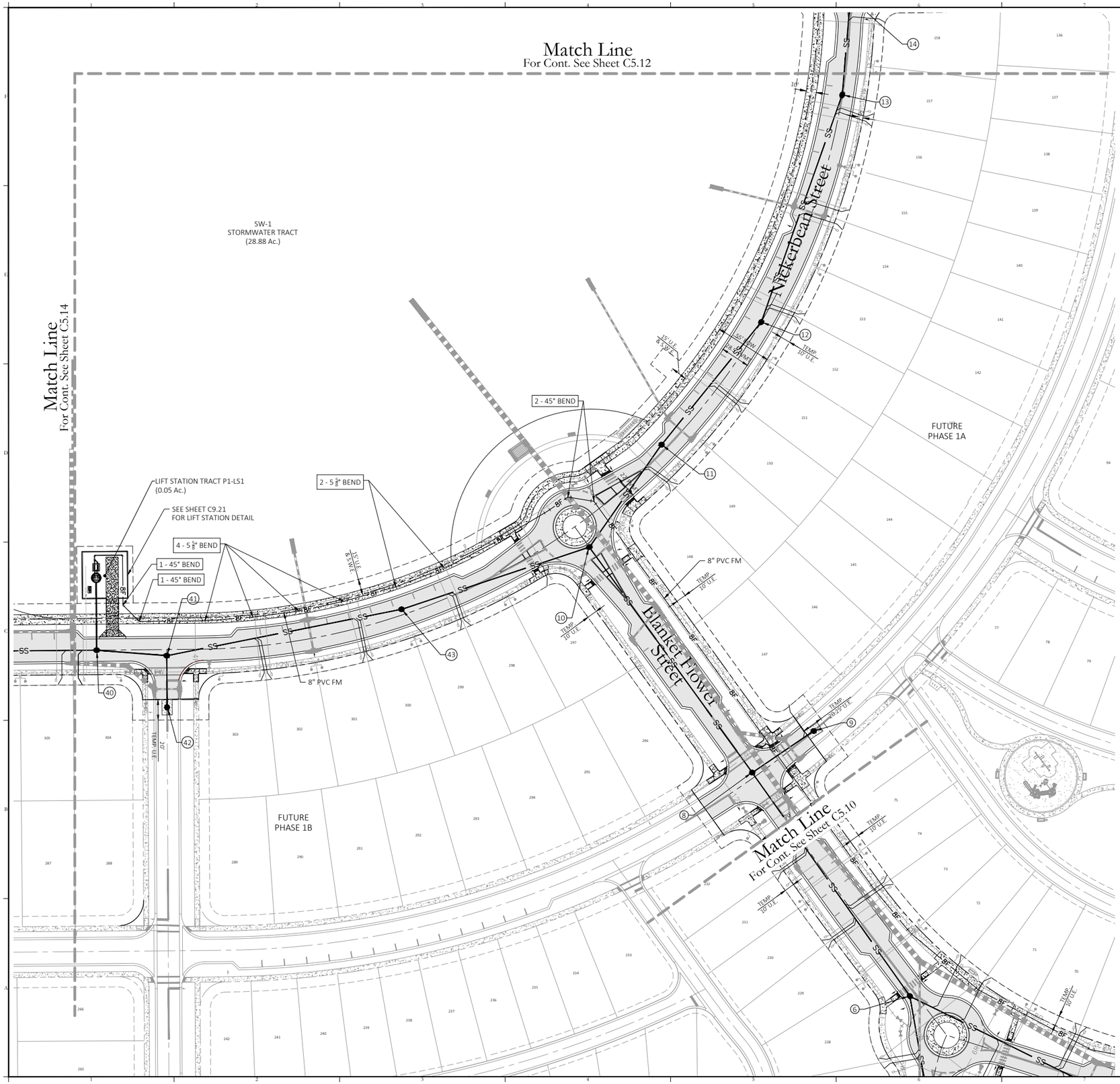
MARC DANIEL STEHLI
P.E. NO. 052781

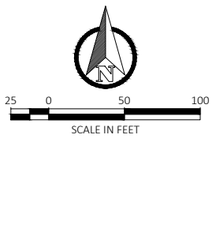
DATE: August 7, 2023

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Eng. Bus. No. 28567

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N

25 0 50 100

SCALE IN FEET

Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
	TEE	
	BEND	
	REDUCER (RED.)	
	FIRE HYDRANT ASSEMBLY	
	ASSET I.D.	WGV-1
	BT SAMPLE POINT	1

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Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

WASTEWATER COLLECTION PLAN

Sheet No.:

C5.11

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

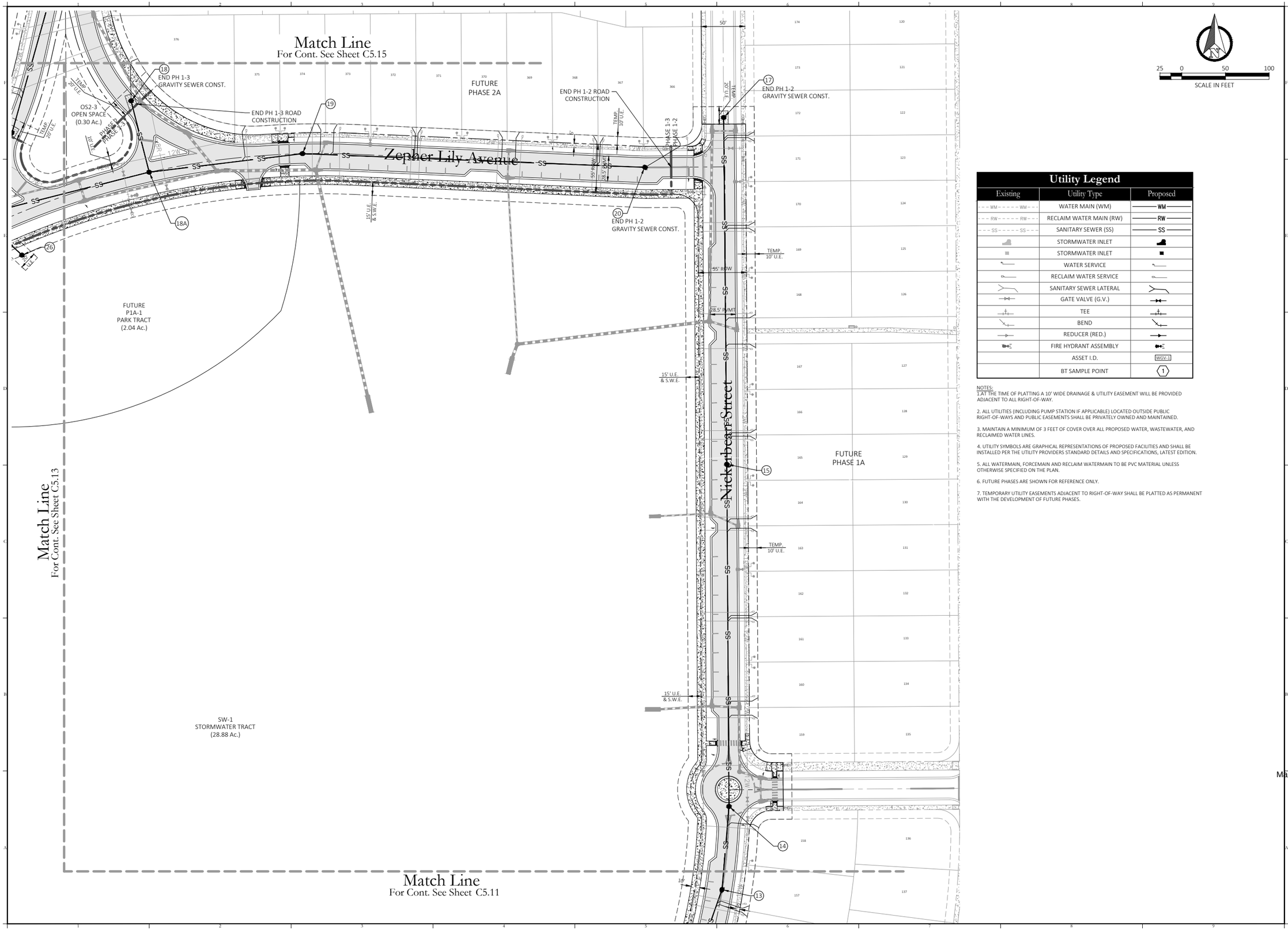
MARC DANIEL STEHLI
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Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
	TEE	
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	REDUCER (RED.)	
	FIRE HYDRANT ASSEMBLY	
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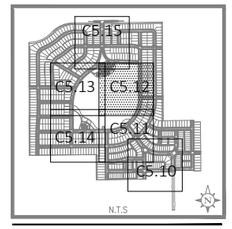
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SCALE IN FEET

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Jurisdiction:

CITY of APOPKA, FL

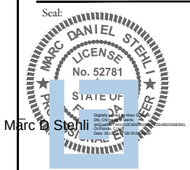
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WASTEWATER COLLECTION PLAN

Sheet No.:

C5.12

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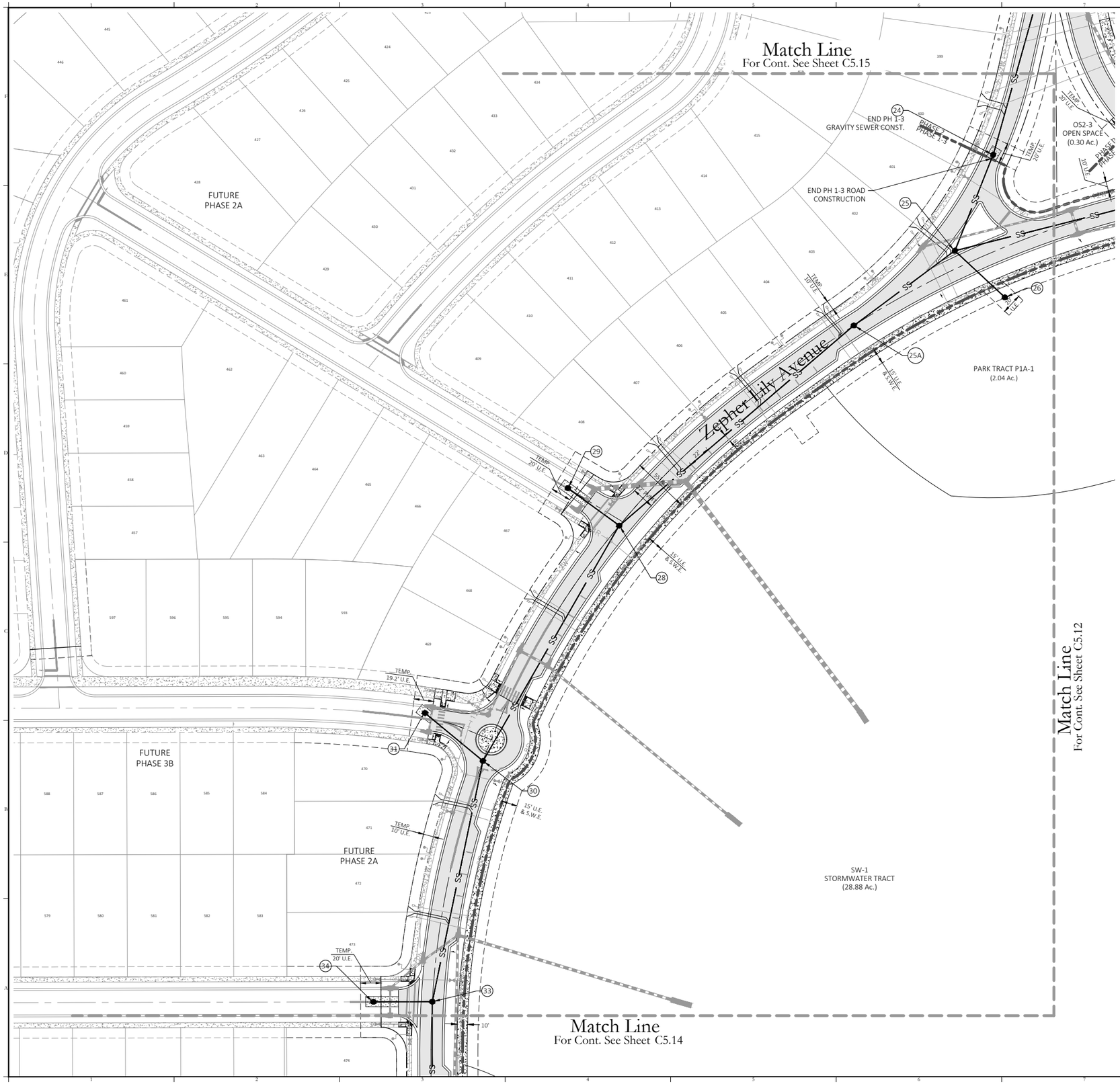
MARC DANIEL STEHLI
P.E. NO. 052781
DATE: August 7, 2023

Marc D Stehli

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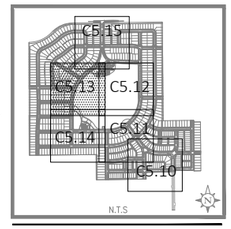
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Key Map:



Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
	TEE	
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	REDUCER (RED.)	
	FIRE HYDRANT ASSEMBLY	
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	BT SAMPLE POINT	1

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SUBMISSIONS/REVISIONS

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SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

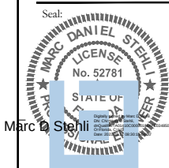
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WASTEWATER COLLECTION PLAN

Sheet No.:

C5.13

Seal:



Marc D Stehli

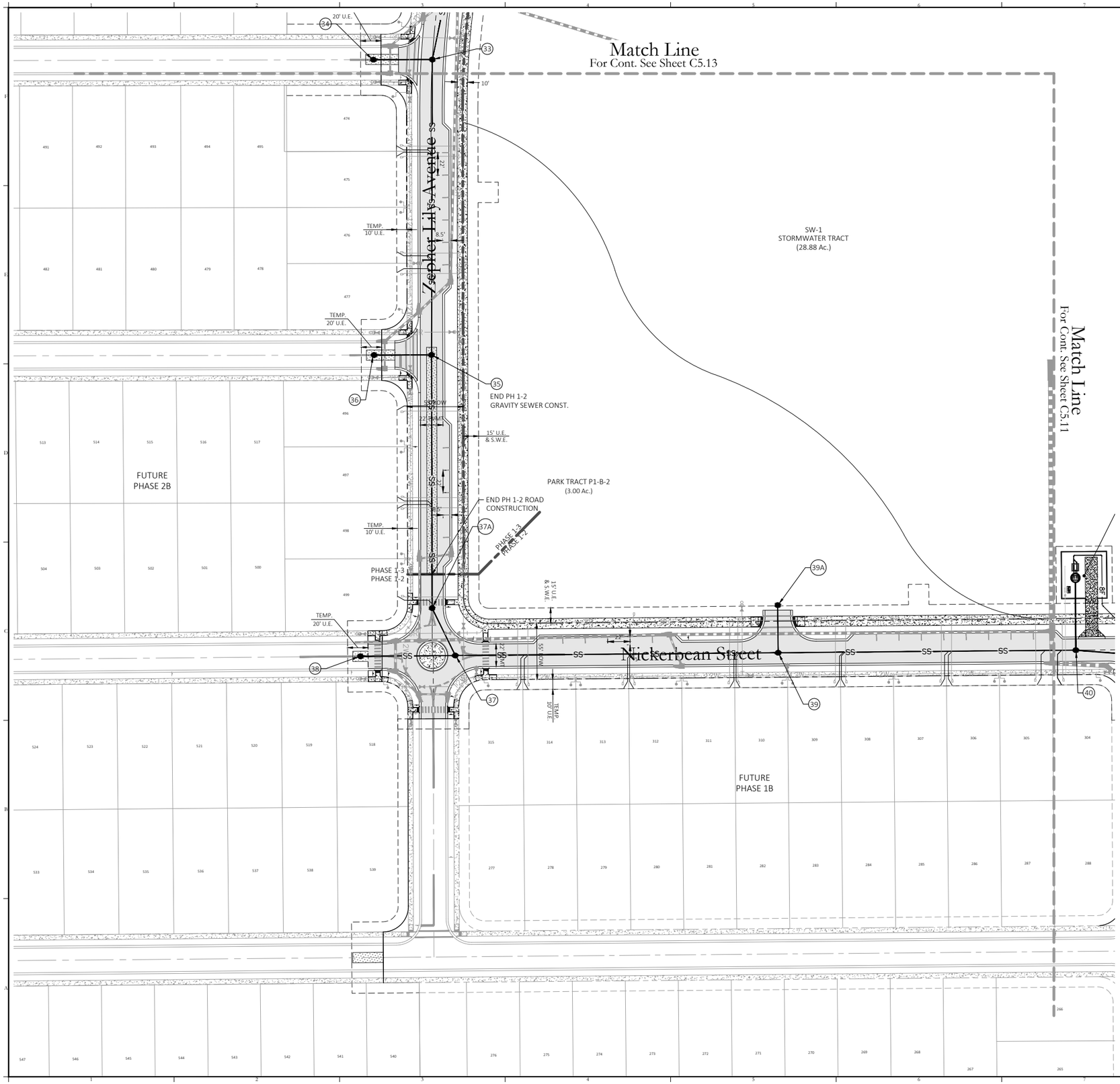
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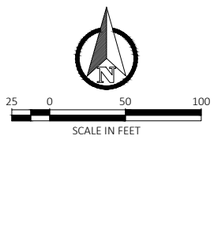
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Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
	TEE	
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Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

WASTEWATER COLLECTION PLAN

Sheet No.:

C5.14

Seal:

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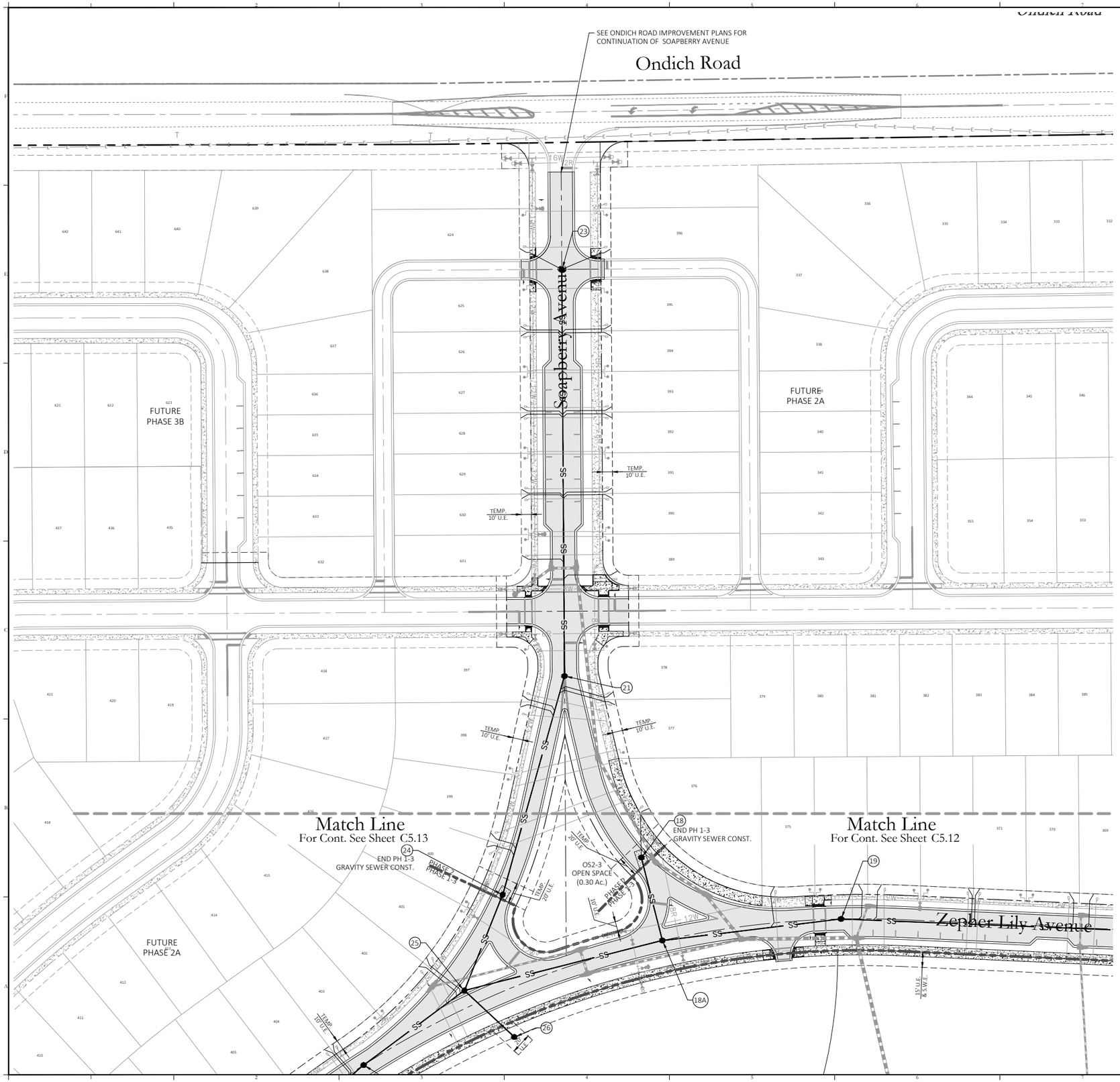
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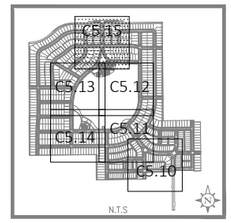
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	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
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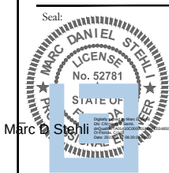
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WASTEWATER COLLECTION PLAN

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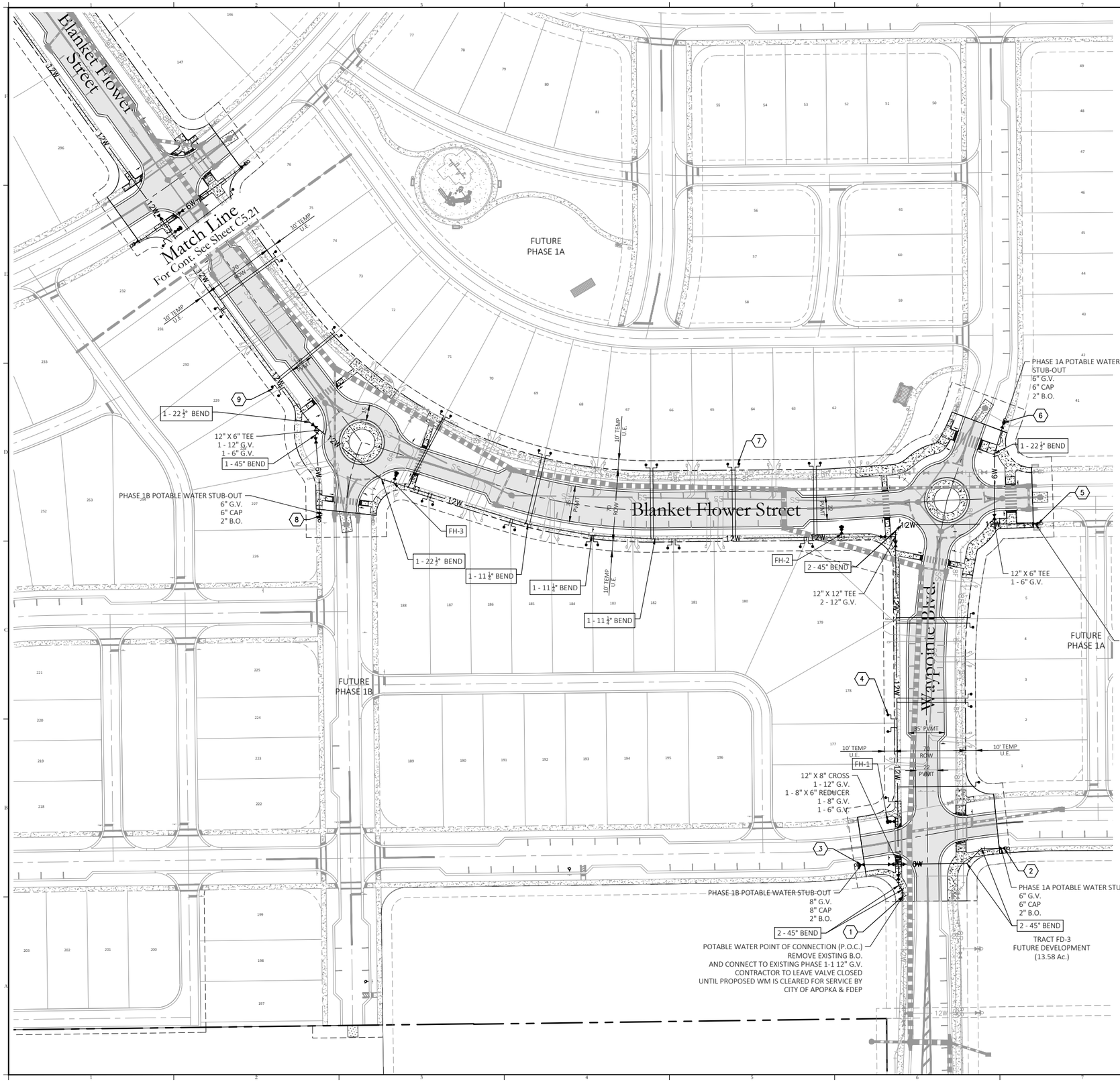
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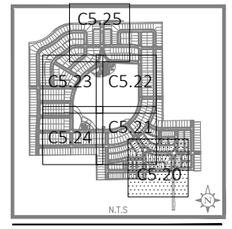
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CITY of APOPKA, FL

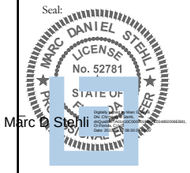
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WATER DISTRIBUTION PLAN

Sheet No.:

C5.20

Seal:



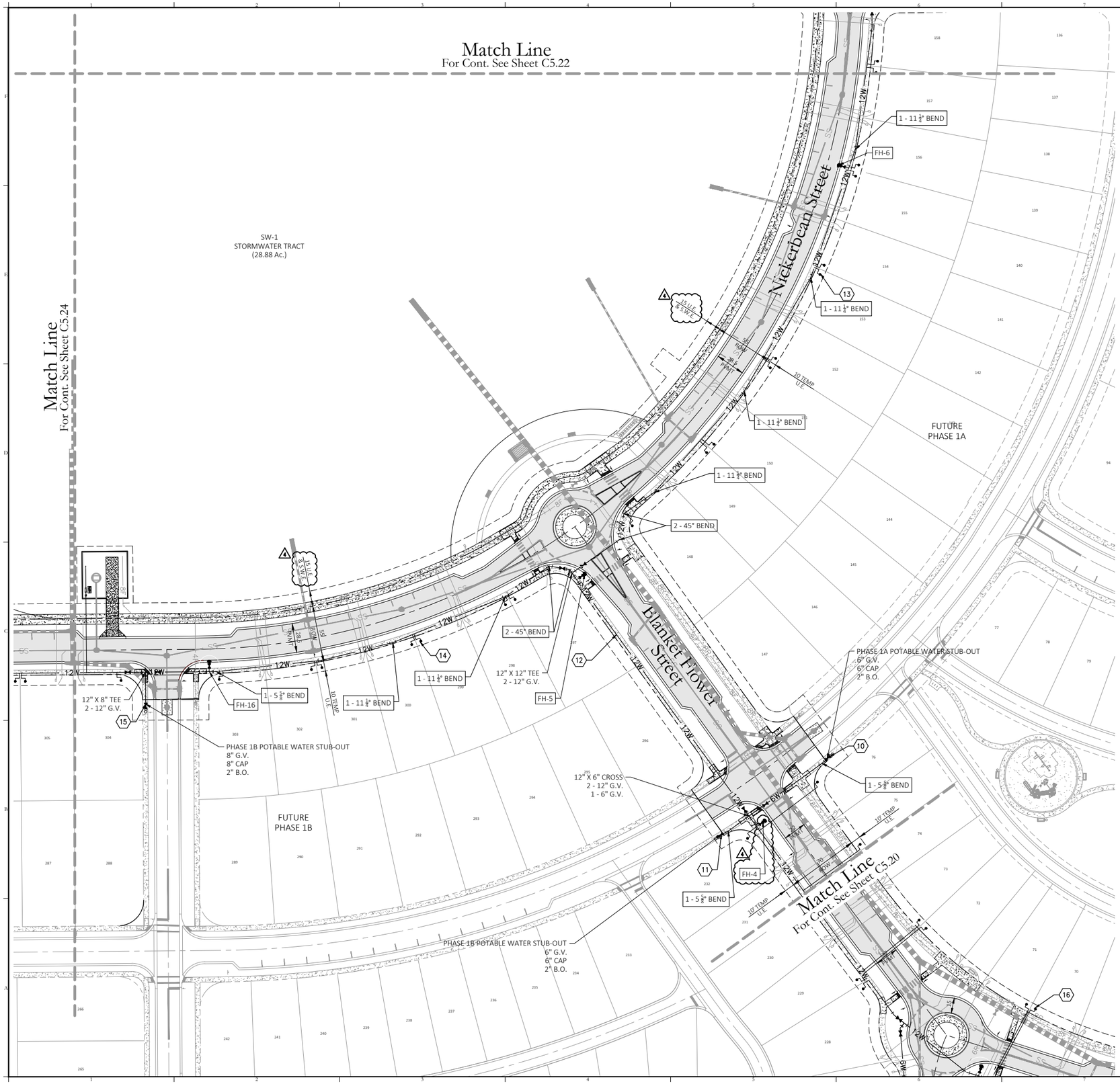
Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

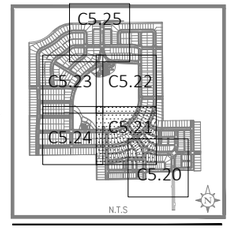
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Eng. Bus. No. 28567

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Key Map:



Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
	TEE	
	BEND	
	REDUCER (RED.)	
	FIRE HYDRANT ASSEMBLY	
	ASSET I.D.	WGV-1
	BT SAMPLE POINT	1

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SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

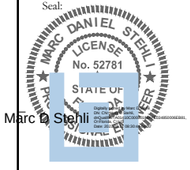
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Sheet No.:

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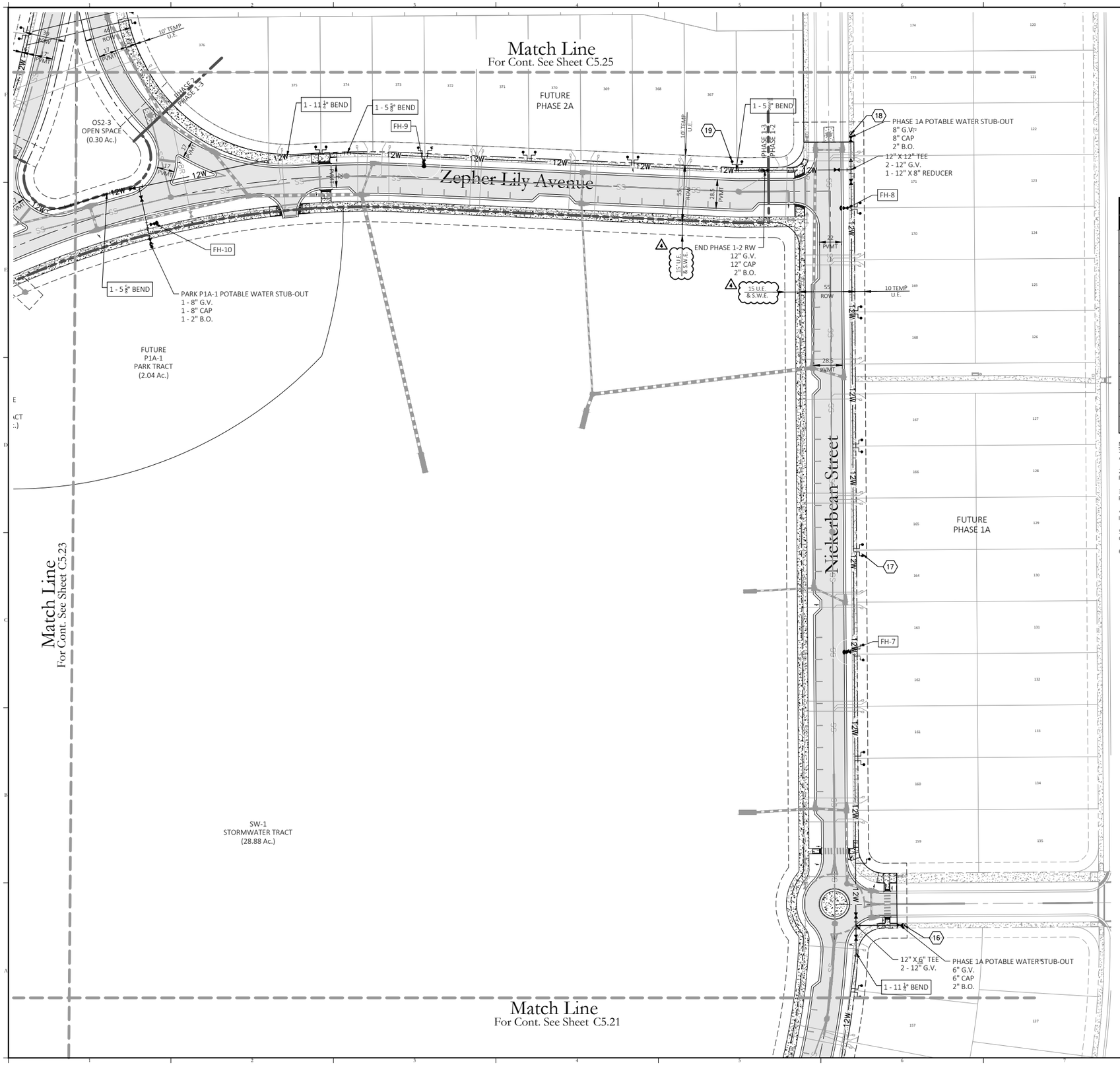
MARC DANIEL STEHLI
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Marc D Stehli

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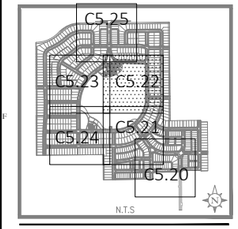


N

25 0 50 100

SCALE IN FEET

Key Map:



Utility Legend

Existing	Utility Type	Proposed
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RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
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	WATER SERVICE	
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Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

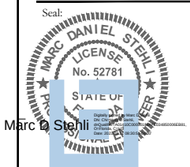
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WATER DISTRIBUTION PLAN

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C5.22

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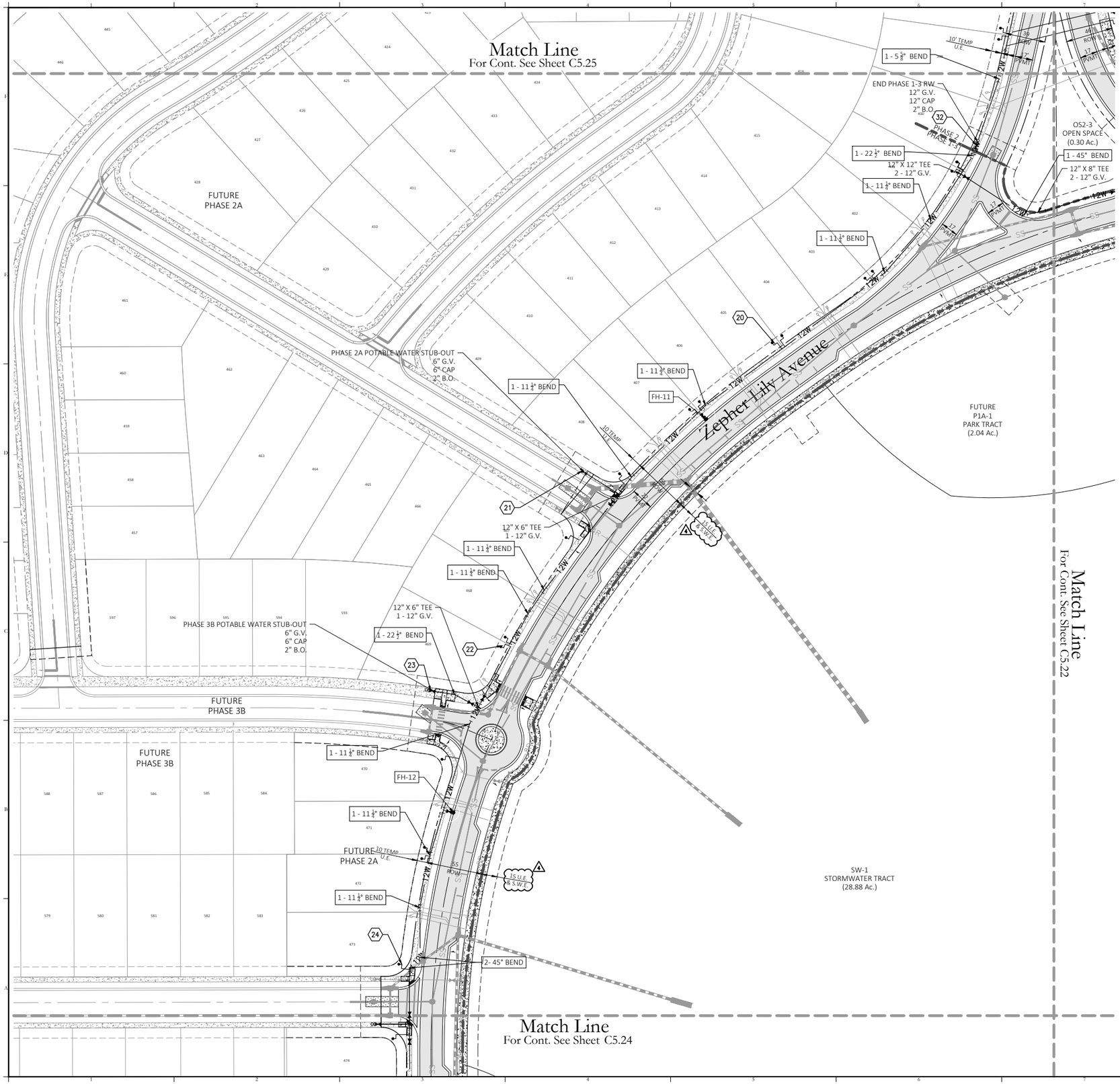
MARC DANIEL STEHLI
P.E. NO. 052781
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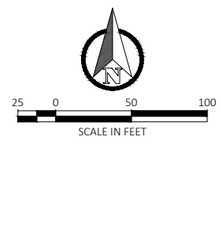
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Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
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	RECLAIM WATER SERVICE	
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CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

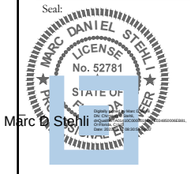
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Sheet No.:

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Seal:



Marc D Stehli

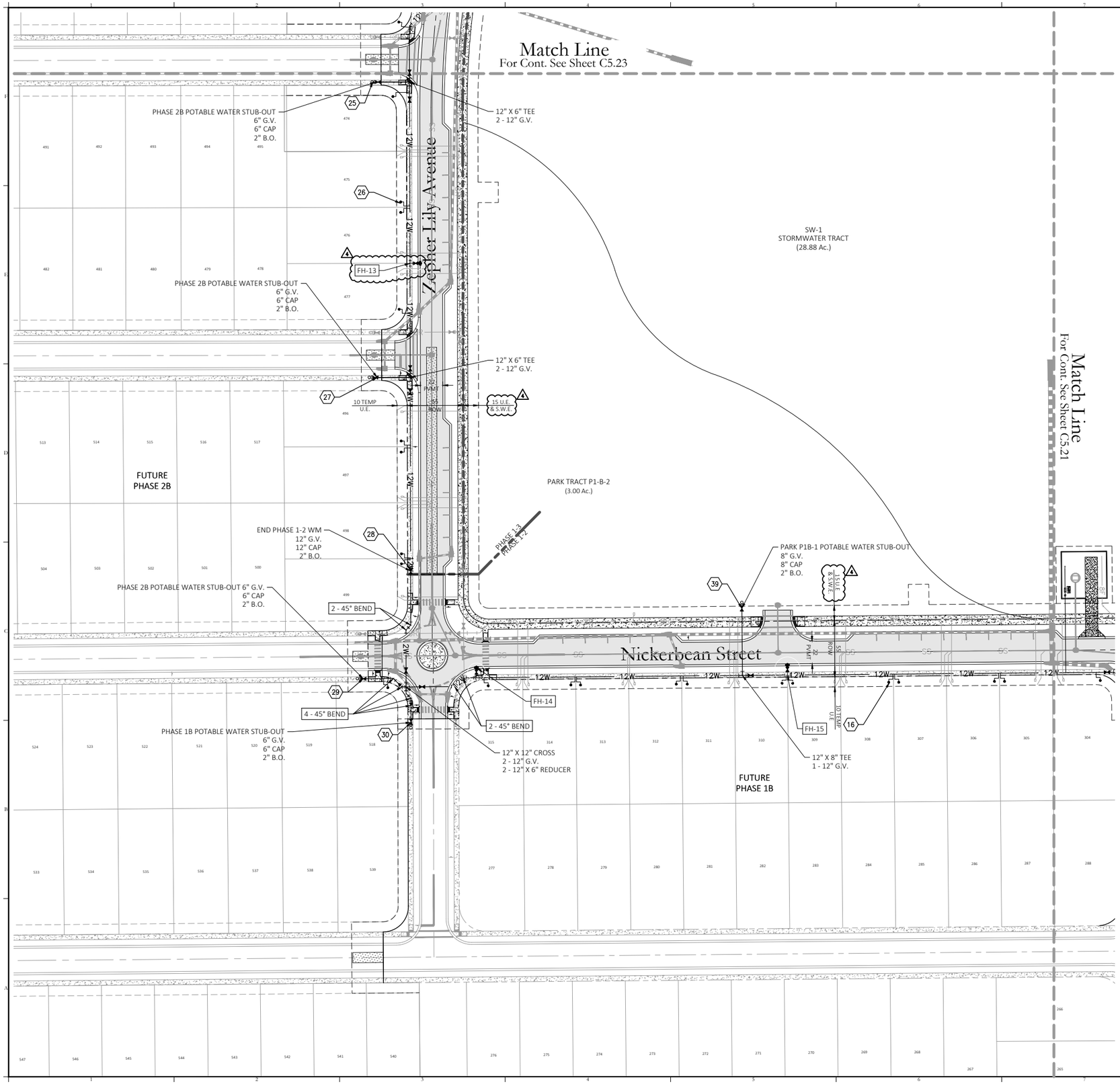
MARC DANIEL STEHLI
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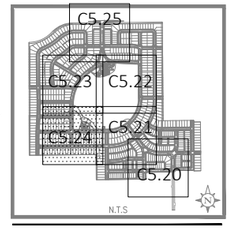
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SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

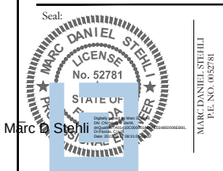
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WATER DISTRIBUTION PLAN

Sheet No.:

C5.24

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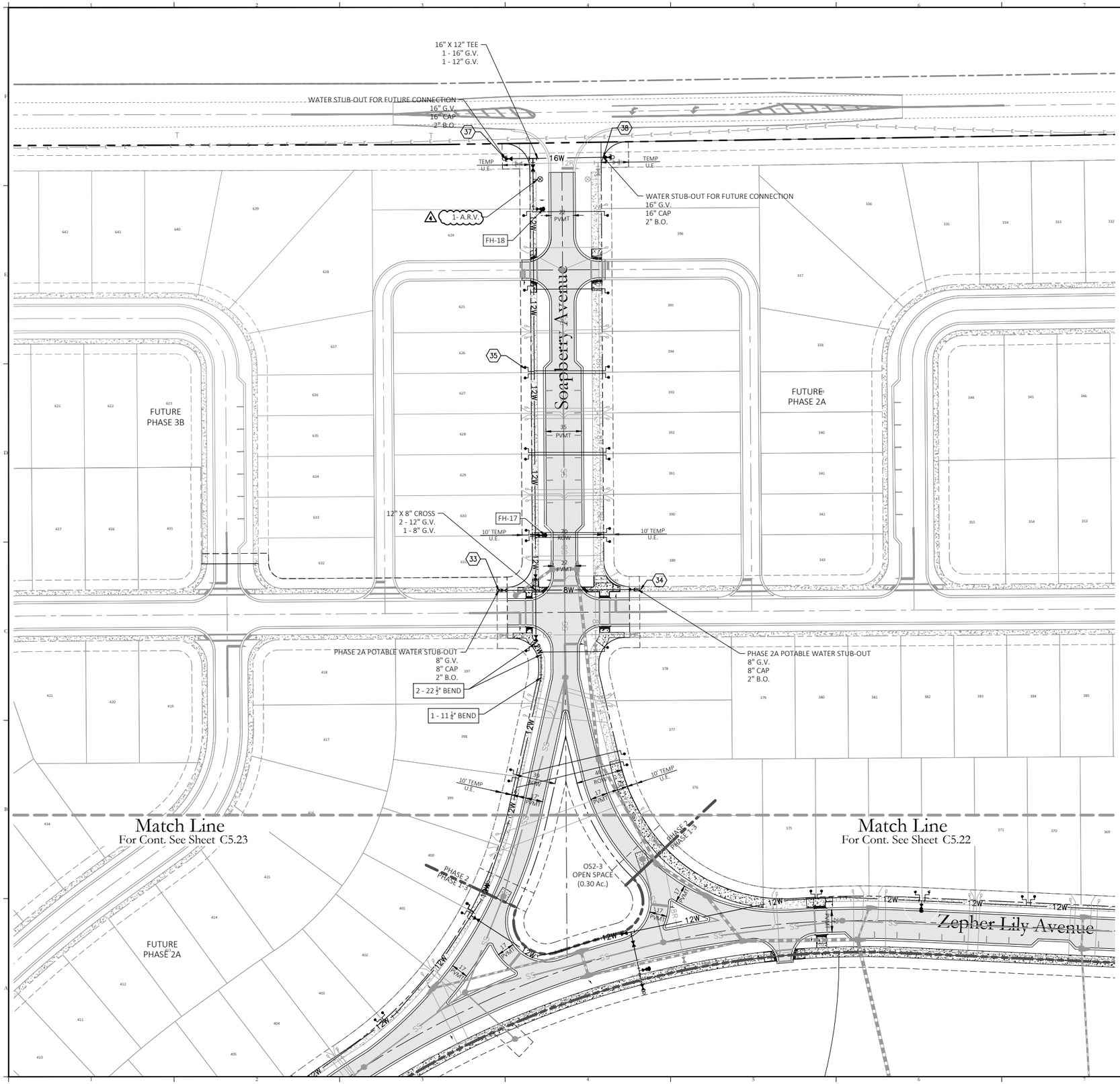
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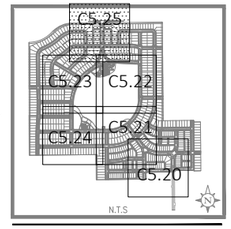
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25 0 50 100
SCALE IN FEET

Key Map:



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Existing	Utility Type	Proposed
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RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
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	STORMWATER INLET	
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Jurisdiction:

CITY of APOPKA, FL

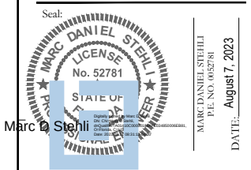
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WATER DISTRIBUTION PLAN

Sheet No.:

C5.25

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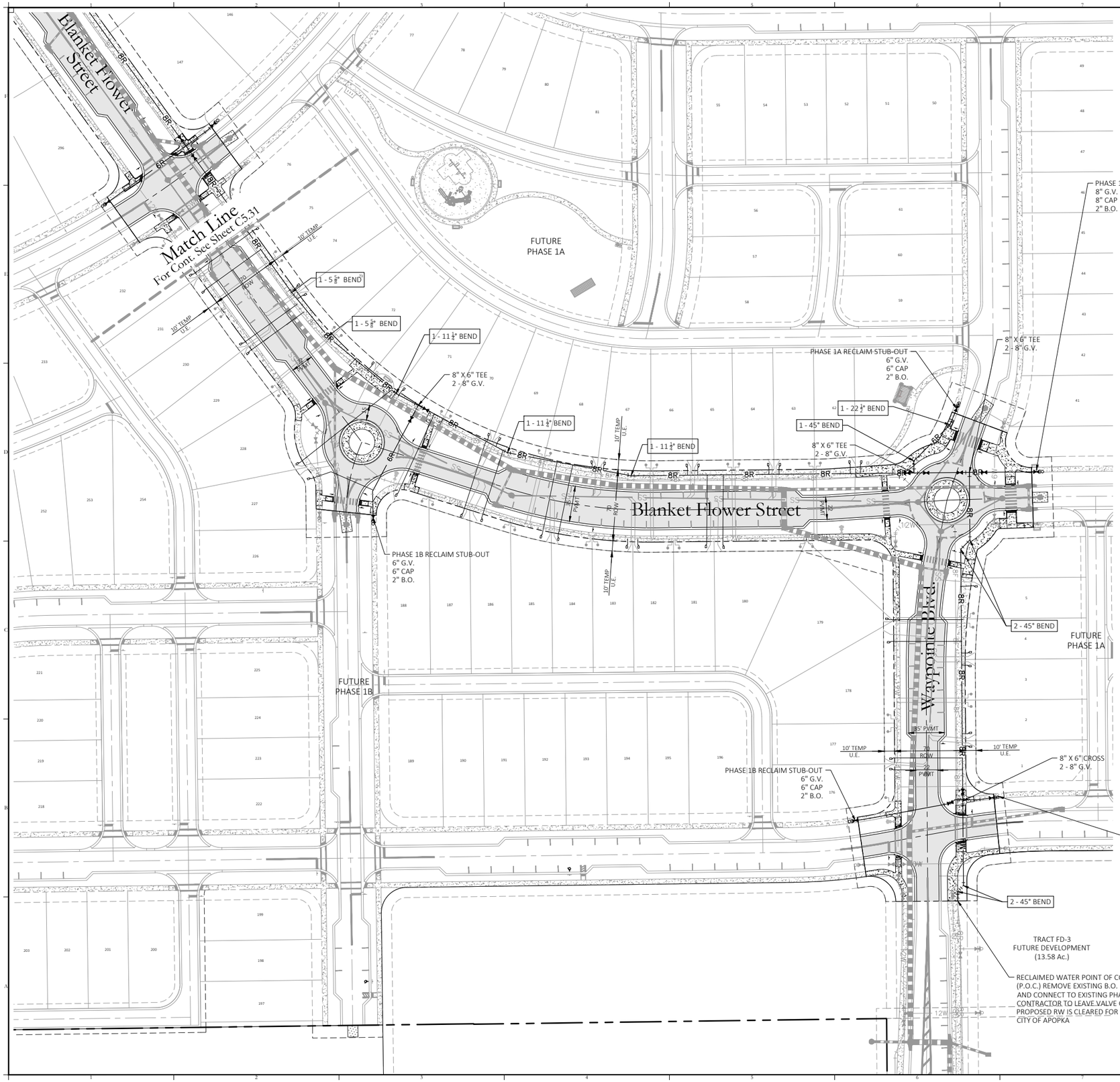
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N

25 0 50 100

SCALE IN FEET

Utility Legend

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RW	RECLAIM WATER MAIN (RW)	RW
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	STORMWATER INLET	
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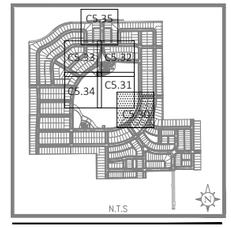
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CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

RECLAIMED WATER DISTRIBUTION PLAN

Sheet No.:

C5.30

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

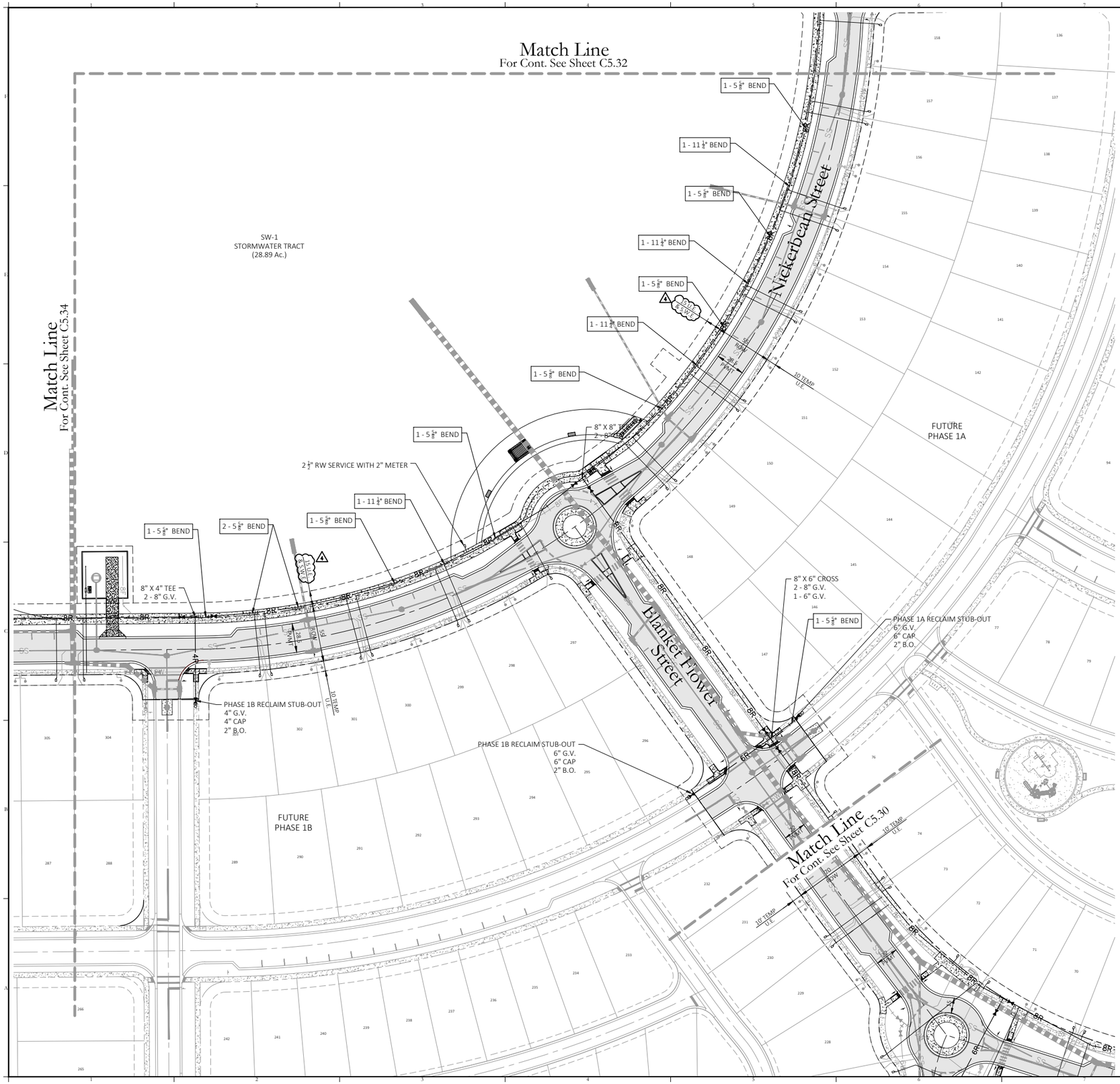
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P.E. NO. 0052781
DATE: August 7, 2023

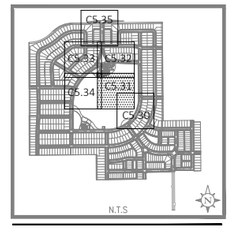
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Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-RWDP



Key Map:



Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
	TEE	
	BEND	
	REDUCER (RED.)	
	FIRE HYDRANT ASSEMBLY	
	ASSET I.D.	WGV-1
	BT SAMPLE POINT	

NOTES:
1. AT THE TIME OF PLATTING A 10' WIDE DRAINAGE & UTILITY EASEMENT WILL BE PROVIDED ADJACENT TO ALL RIGHT-OF-WAY.

2. ALL UTILITIES (INCLUDING PUMP STATION IF APPLICABLE) LOCATED OUTSIDE PUBLIC RIGHT-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED.

3. MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER ALL PROPOSED WATER, WASTEWATER, AND RECLAIMED WATER LINES.

4. UTILITY SYMBOLS ARE GRAPHICAL REPRESENTATIONS OF PROPOSED FACILITIES AND SHALL BE INSTALLED PER THE UTILITY PROVIDERS STANDARD DETAILS AND SPECIFICATIONS, LATEST EDITION.

5. ALL WATERMAIN, FORCEMAIN AND RECLAIM WATERMAIN TO BE PVC MATERIAL UNLESS OTHERWISE SPECIFIED ON THE PLAN.

6. FUTURE PHASES ARE SHOWN FOR REFERENCE ONLY

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

RECLAIMED WATER DISTRIBUTION PLAN

Sheet No.:

C5.31

Seal:

MARC DANIEL STEHLI
LICENSE
No. 52781
STATE OF FLORIDA
PROFESSIONAL ENGINEER

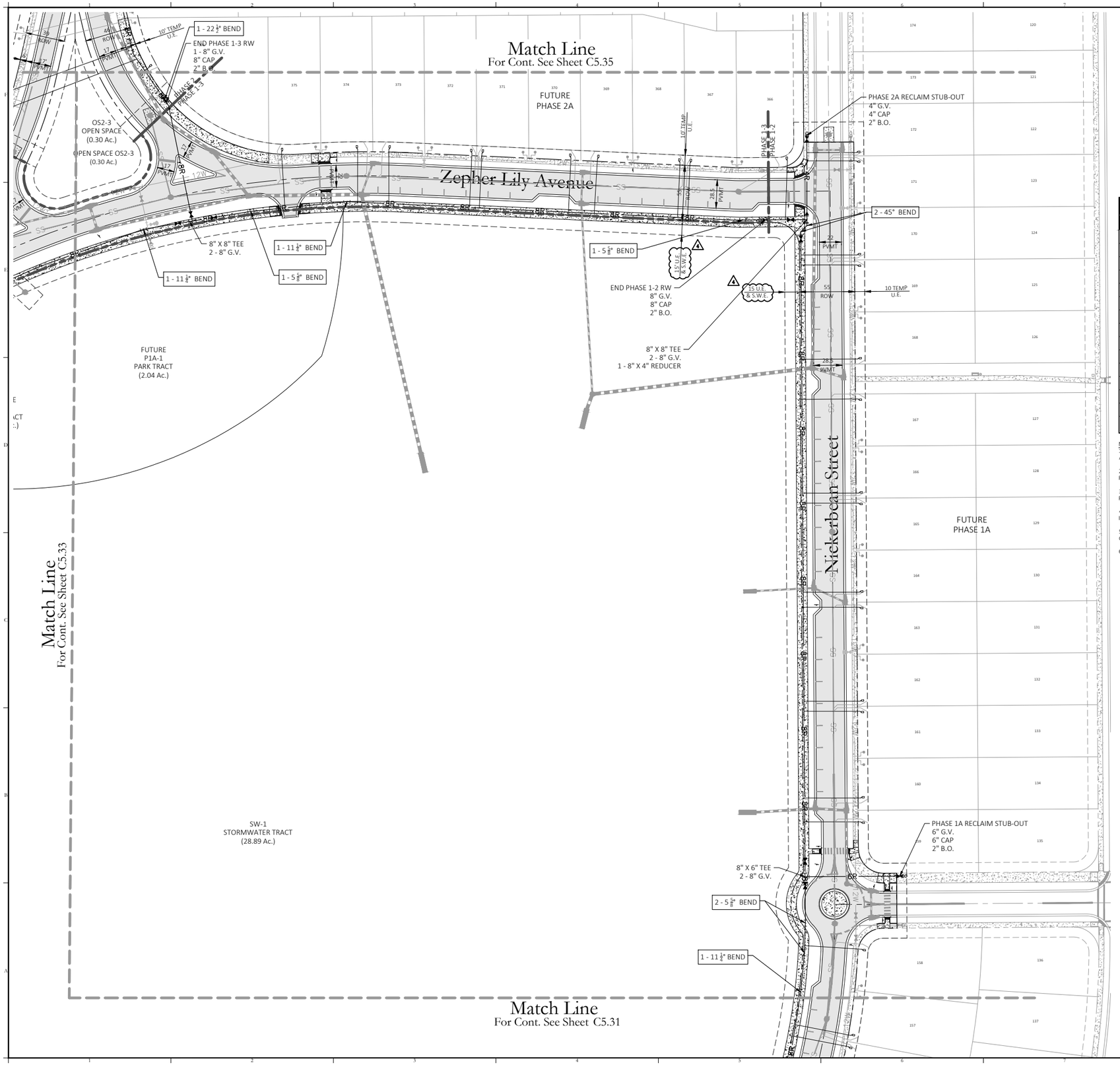
Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT

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Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-RWDP



Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
	TEE	
	BEND	
	REDUCER (RED.)	
	FIRE HYDRANT ASSEMBLY	
	ASSET I.D.	WGV-1
	BT SAMPLE POINT	

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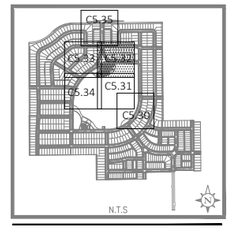
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Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

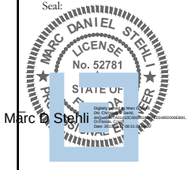
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RECLAIMED WATER DISTRIBUTION PLAN

Sheet No.:

C5.32

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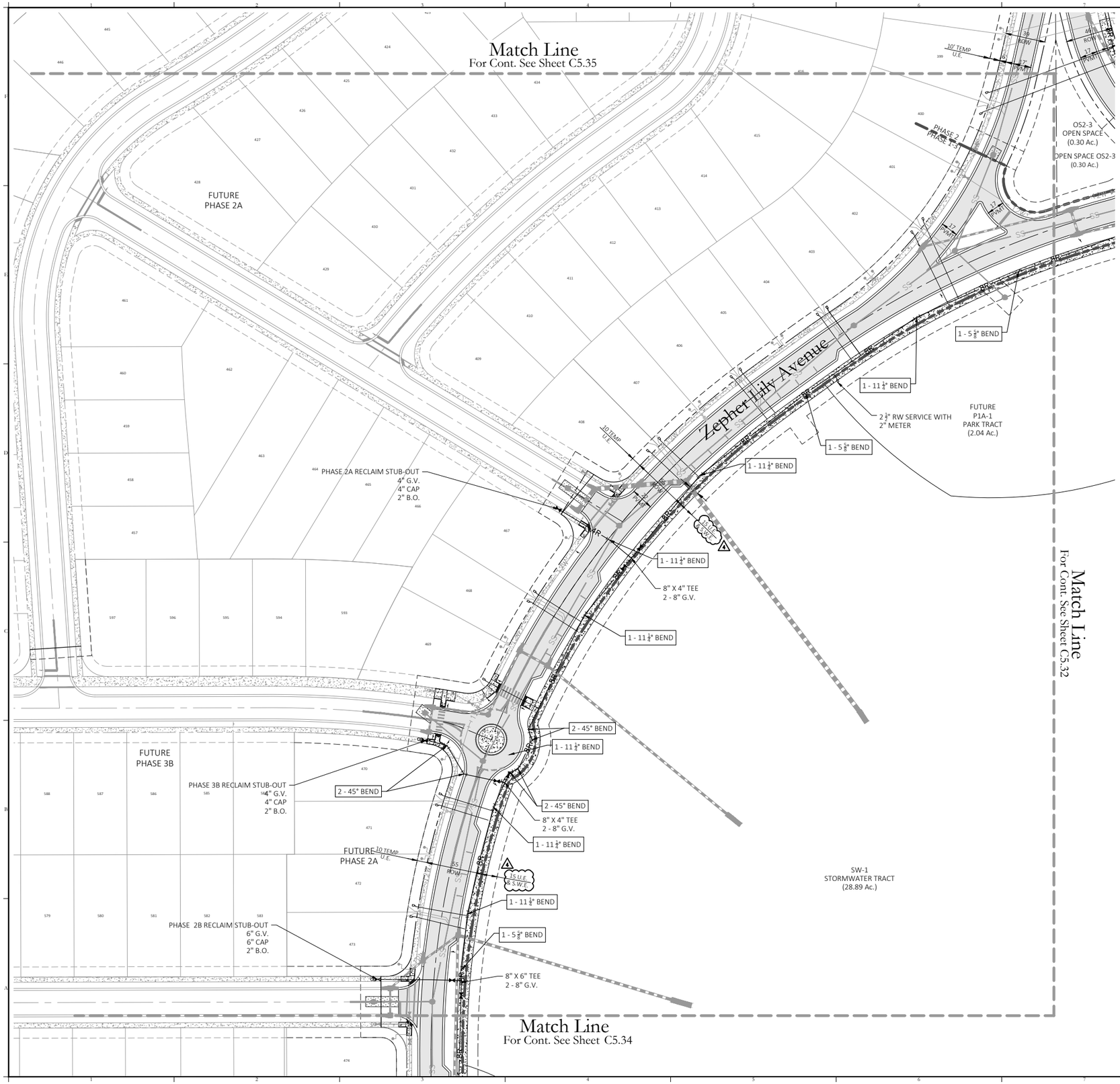
MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

Marc D Stehli

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Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
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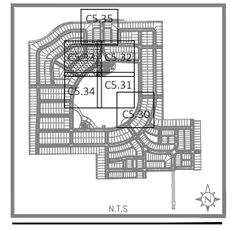
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Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

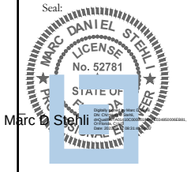
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RECLAIMED WATER DISTRIBUTION PLAN

Sheet No.:

C5.33

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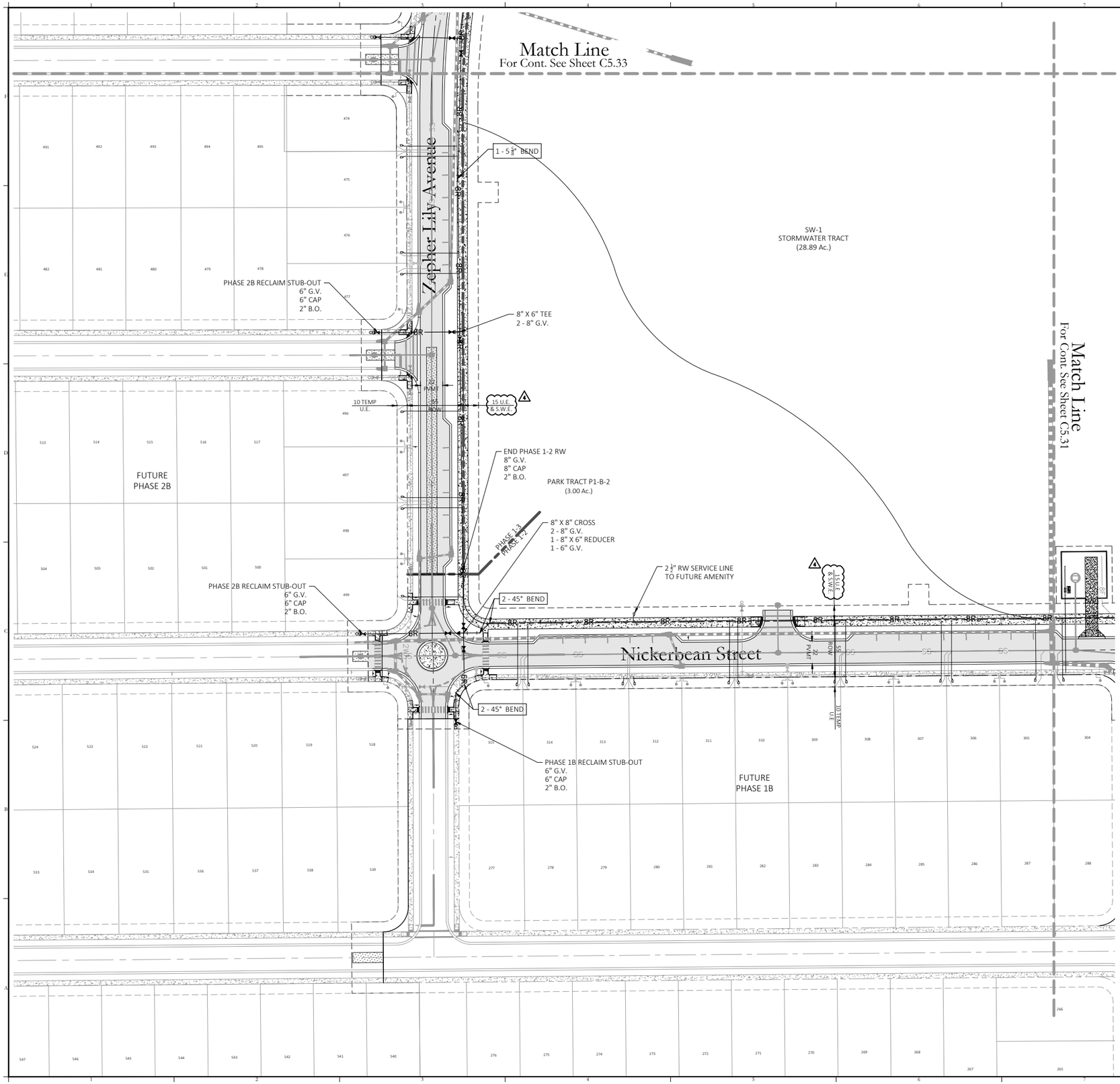
Marc D Stehli

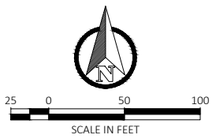
MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT

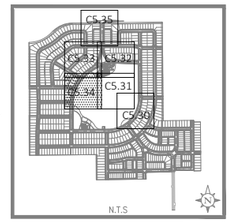
Poulos & Bennett, LLC
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Key Map:



Utility Legend

Existing	Utility Type	Proposed
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	STORMWATER INLET	
	WATER SERVICE	
	RECLAIM WATER SERVICE	
	SANITARY SEWER LATERAL	
	GATE VALVE (G.V.)	
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SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

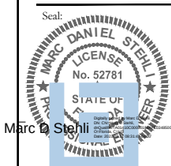
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RECLAIMED WATER DISTRIBUTION PLAN

Sheet No.:

C5.34

Seal:



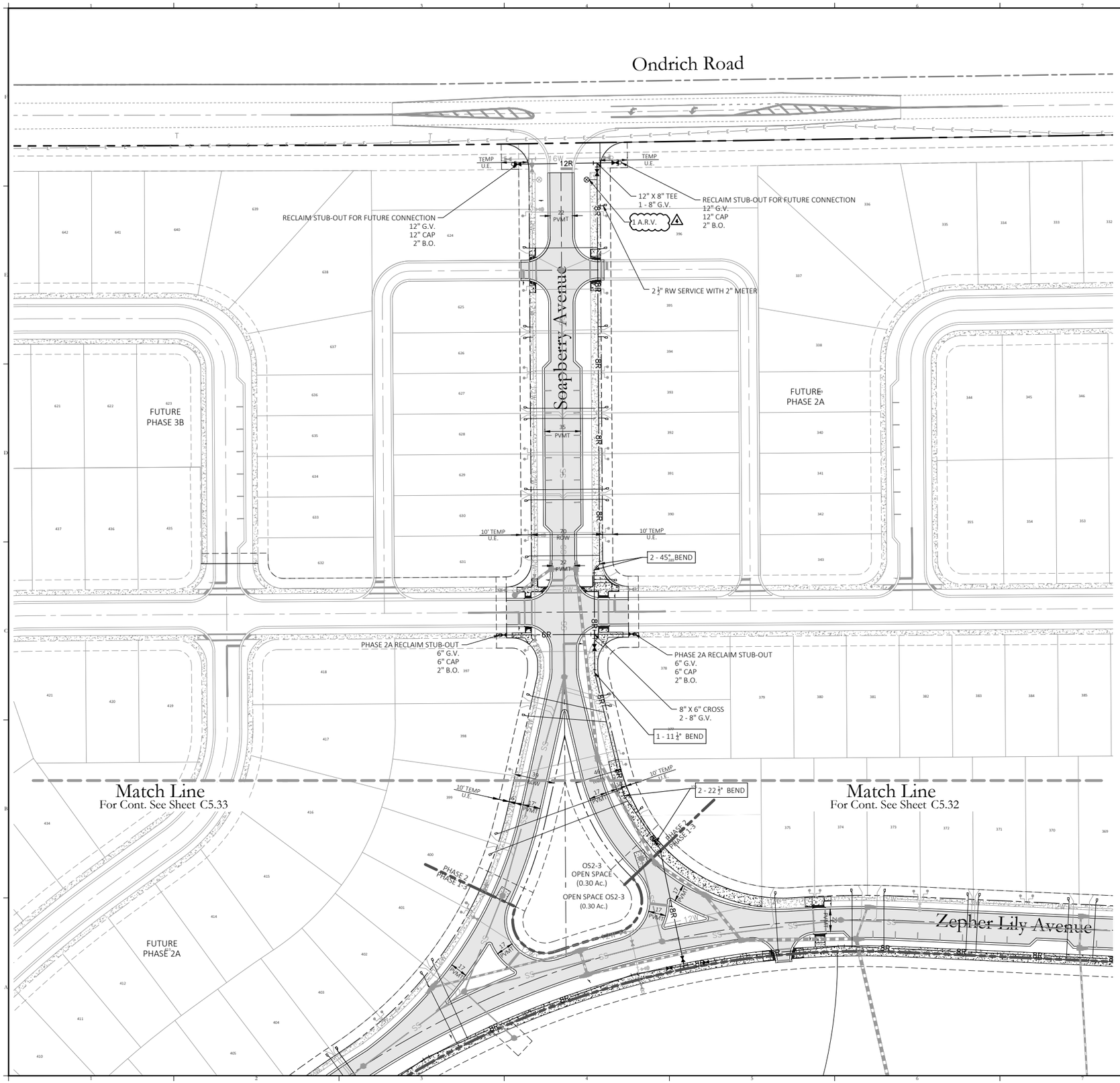
Marc D Stehli

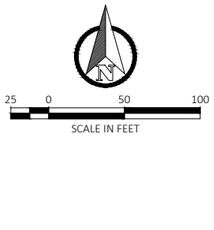
MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT

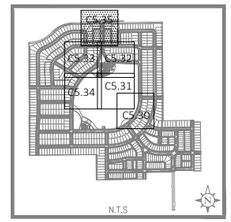
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Key Map:



Utility Legend

Existing	Utility Type	Proposed
WM	WATER MAIN (WM)	WM
RW	RECLAIM WATER MAIN (RW)	RW
SS	SANITARY SEWER (SS)	SS
	STORMWATER INLET	
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	WATER SERVICE	
	RECLAIM WATER SERVICE	
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Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

RECLAIMED WATER DISTRIBUTION PLAN

Sheet No.:

C5.35

Seal:

MARC DANIEL STEHLI
LICENSE
No. 52781
STATE OF FLORIDA
REGISTERED ENGINEER

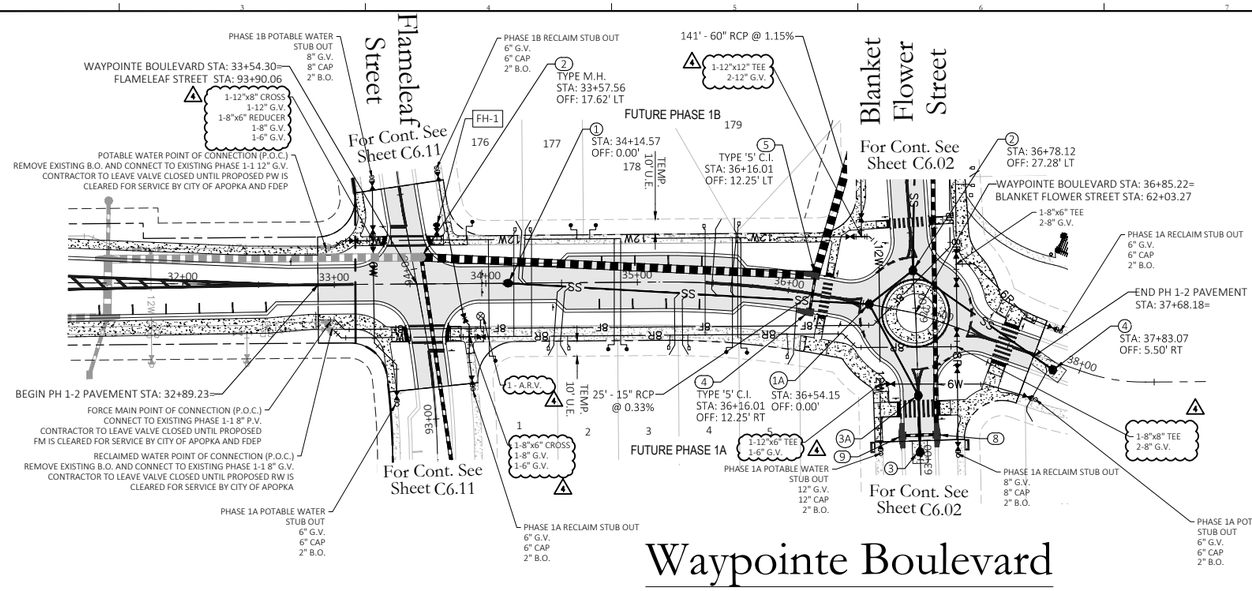
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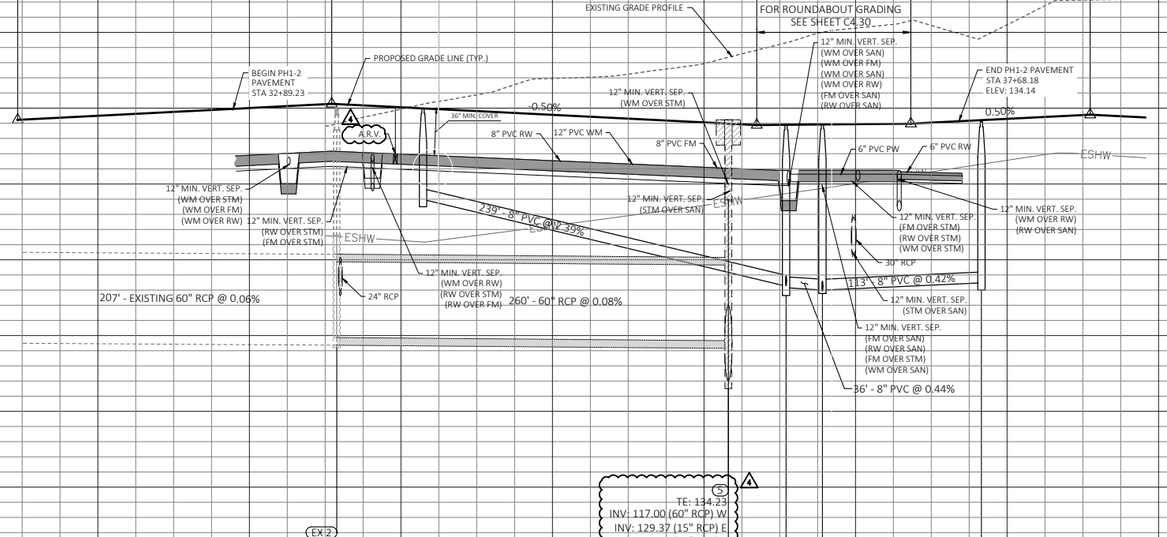
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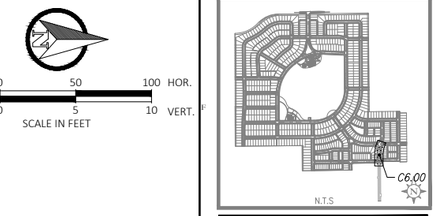
Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-RWDP



NOTES:
1. PROVIDE 3' MIN. HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND EDGE OF PAVEMENT.
2. PROVIDE 3' MIN HORIZONTAL SEPARATION BETWEEN WATERMAIN / RECLAIMED WATERMAIN AND STORMWATER DRAINAGE STRUCTURES.
3. PROVIDE 10' UTILITY EASEMENT ALONG ALL PROPOSED RIGHT-OF-WAY.
4. ALL UTILITIES (INCLUDING PUMP STATION IF APPLICABLE) LOCATED OUTSIDE PUBLIC RIGHT-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED.
5. PROVIDE 36" MIN. COVER BETWEEN PROPOSED GRADE AND TOP OF POTABLE WATER, RECLAIMED WATER, AND FORCEMAIN PIPE.

Waypointe Boulevard





Key Map:

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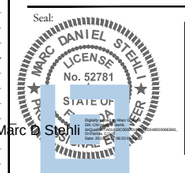
Sheet Title:

WAYPOINTE BOULEVARD PLAN & PROFILE

Sheet No.:

C6.00

Seal:



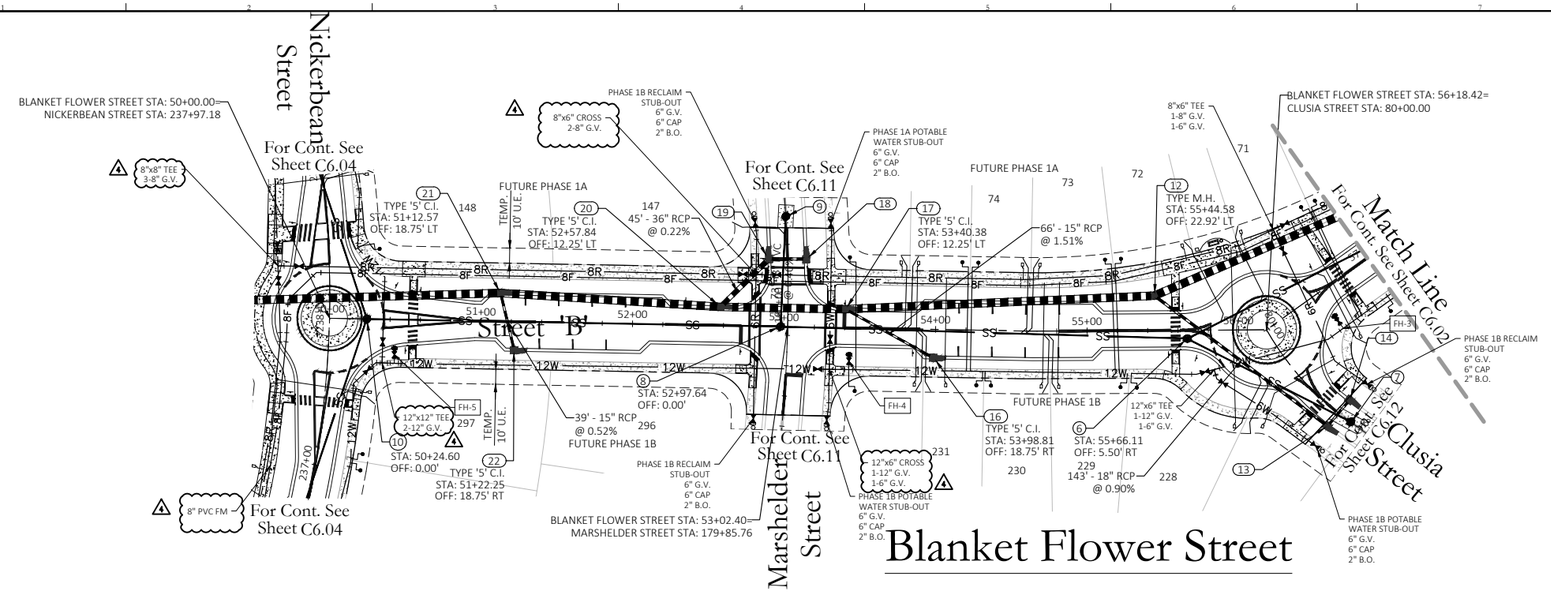
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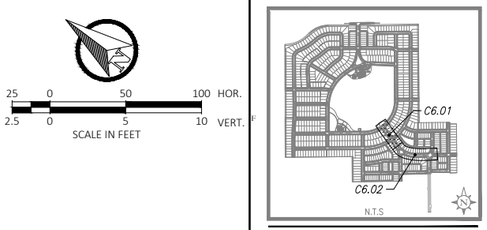
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Eng. Bus. No. 28567

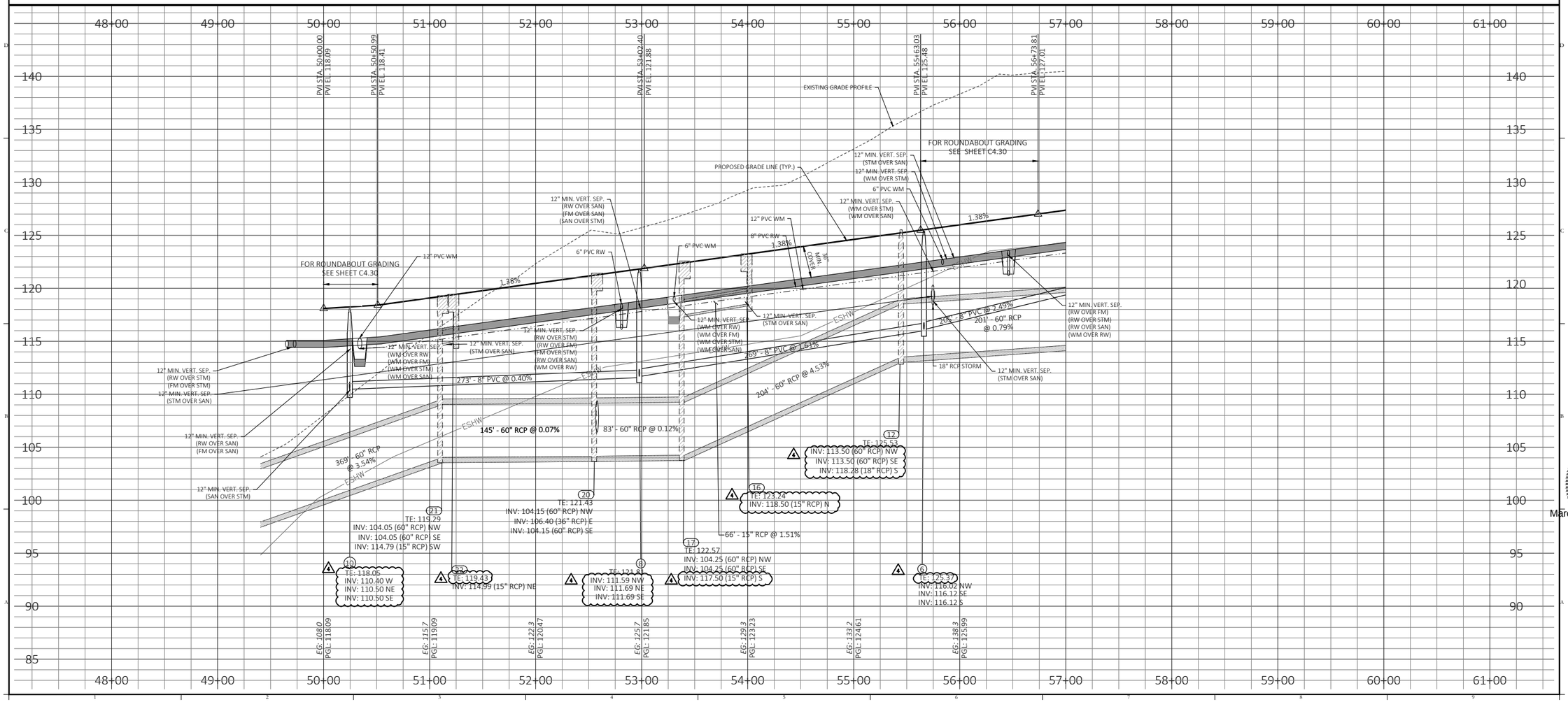
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Key Map:

NOTES:
1. PROVIDE 3' MIN. HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND EDGE OF PAVEMENT.
2. PROVIDE 3' MIN HORIZONTAL SEPARATION BETWEEN WATERMAIN / RECLAIMED WATERMAIN AND STORMWATER DRAINAGE STRUCTURES.
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1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

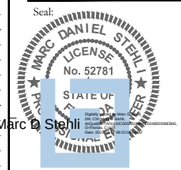
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BLANKET FLOWER STREET PLAN & PROFILE

Sheet No.:

C6.01

Seal:

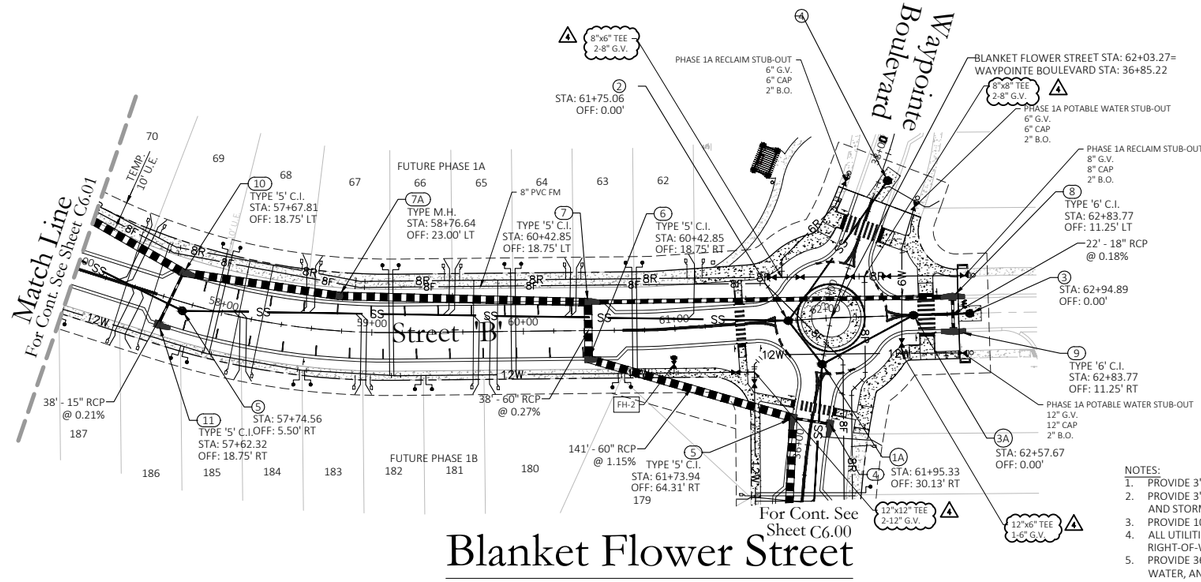


Marc D Stehli

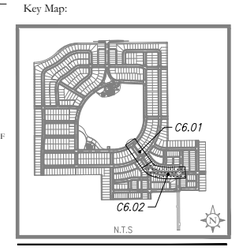
POULOS & BENNETT

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2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Engr. Bus. No. 28567

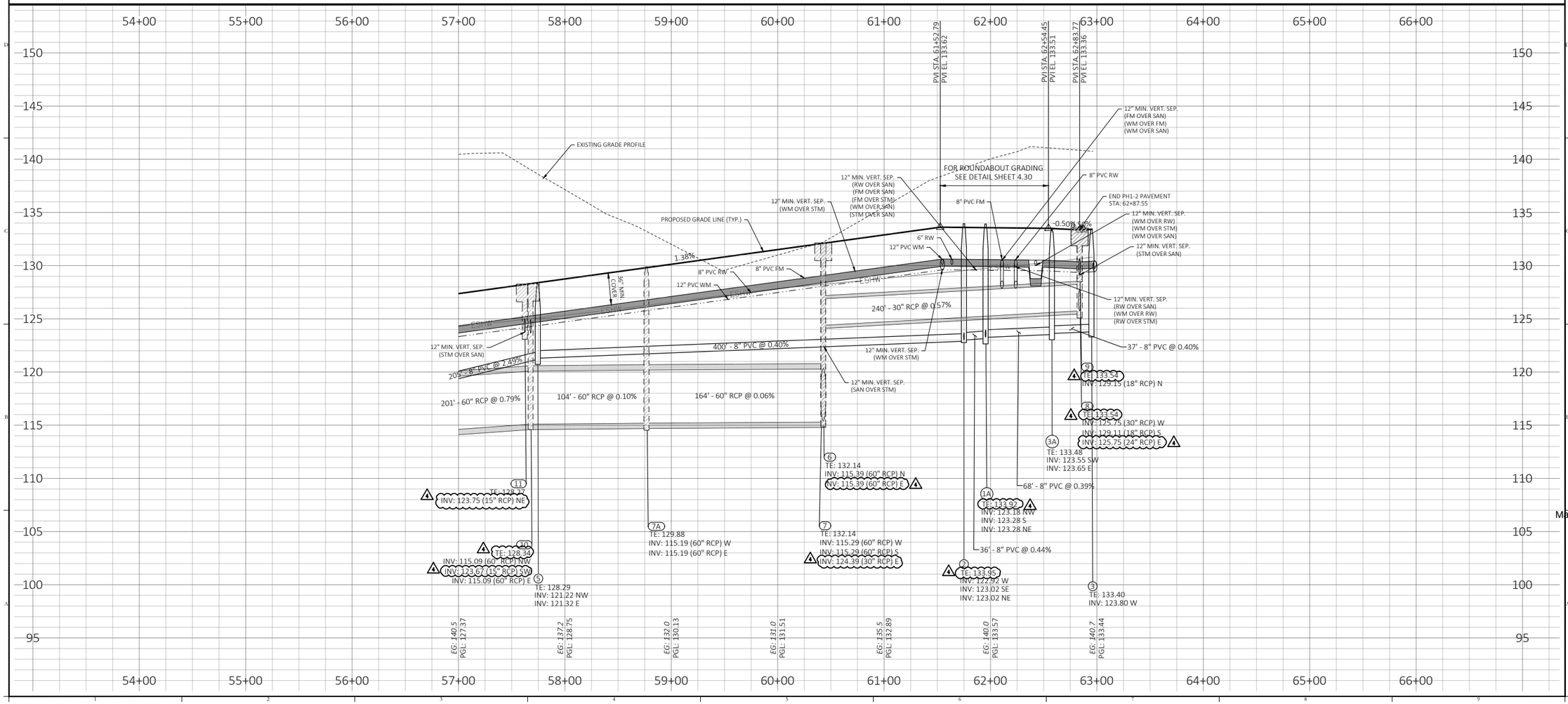
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Blanket Flower Street



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SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
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APPROVED BY:	MDS
SCALE IN FEET:	1" =50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

BLANKETFLOWER STREET PLAN & PROFILE

Sheet No.:

C6.02

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

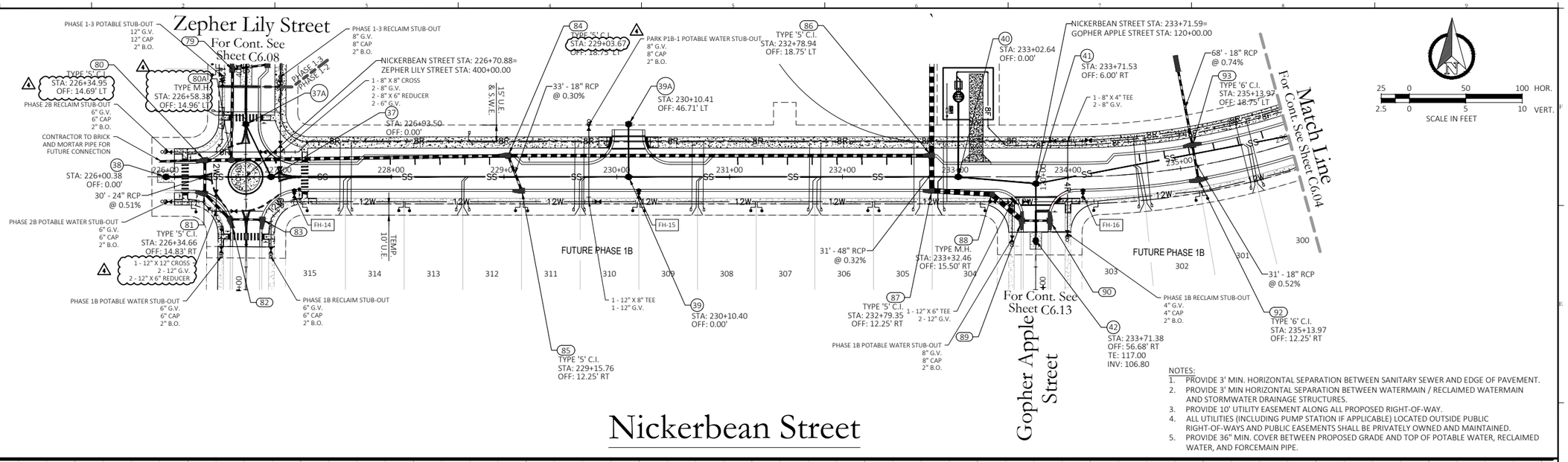
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DATE: August 7, 2023

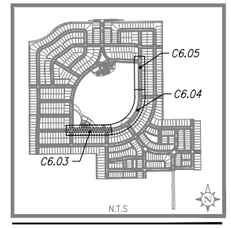
POULOS & BENNETT

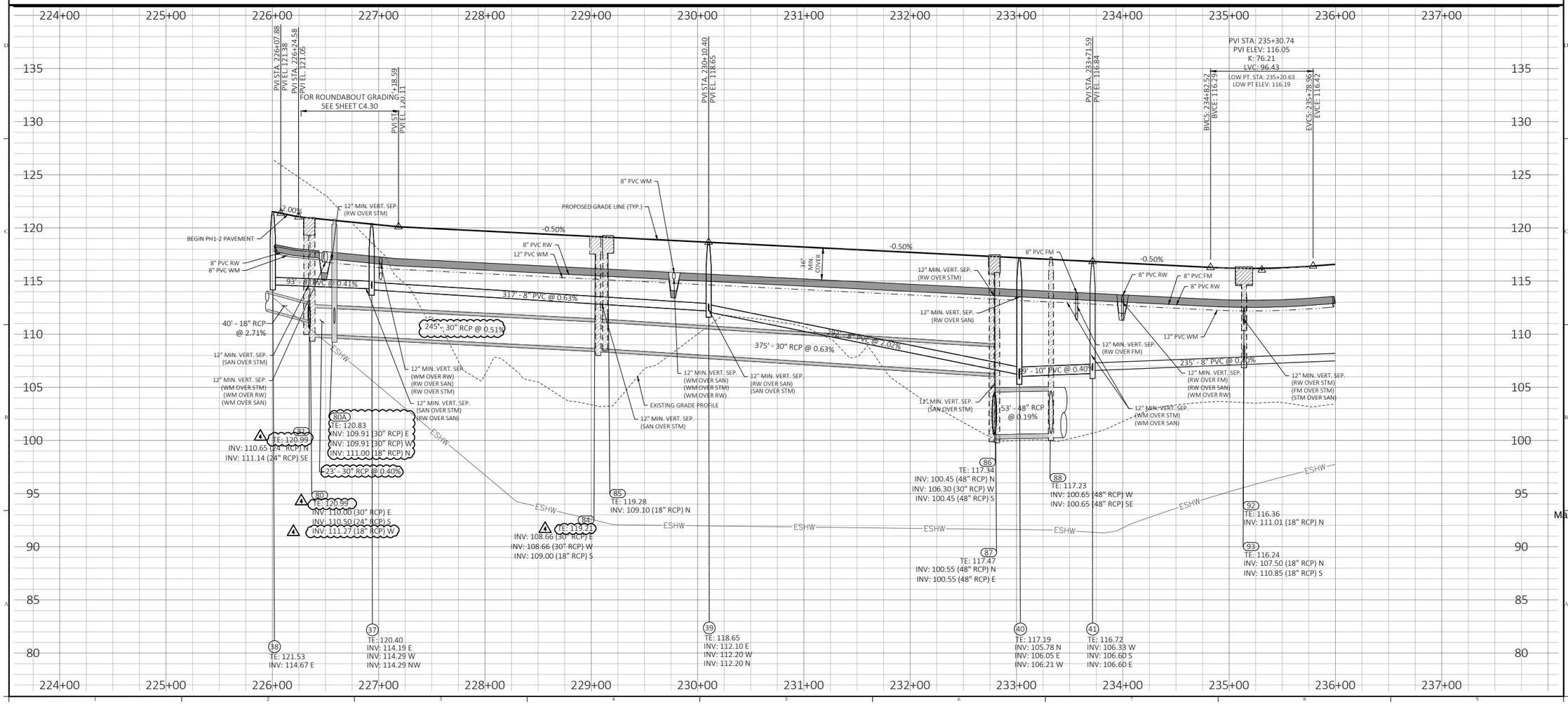
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-PP-ST B



Key Map:





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SUBMISSIONS/REVISIONS

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JOB NO.:	21-027B
DESIGNED BY:	MDS
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CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

NICKERBEAN STREET PLAN & PROFILE

Sheet No.:

C6.03

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA REGISTERED ENGINEER

Marc D Stehli

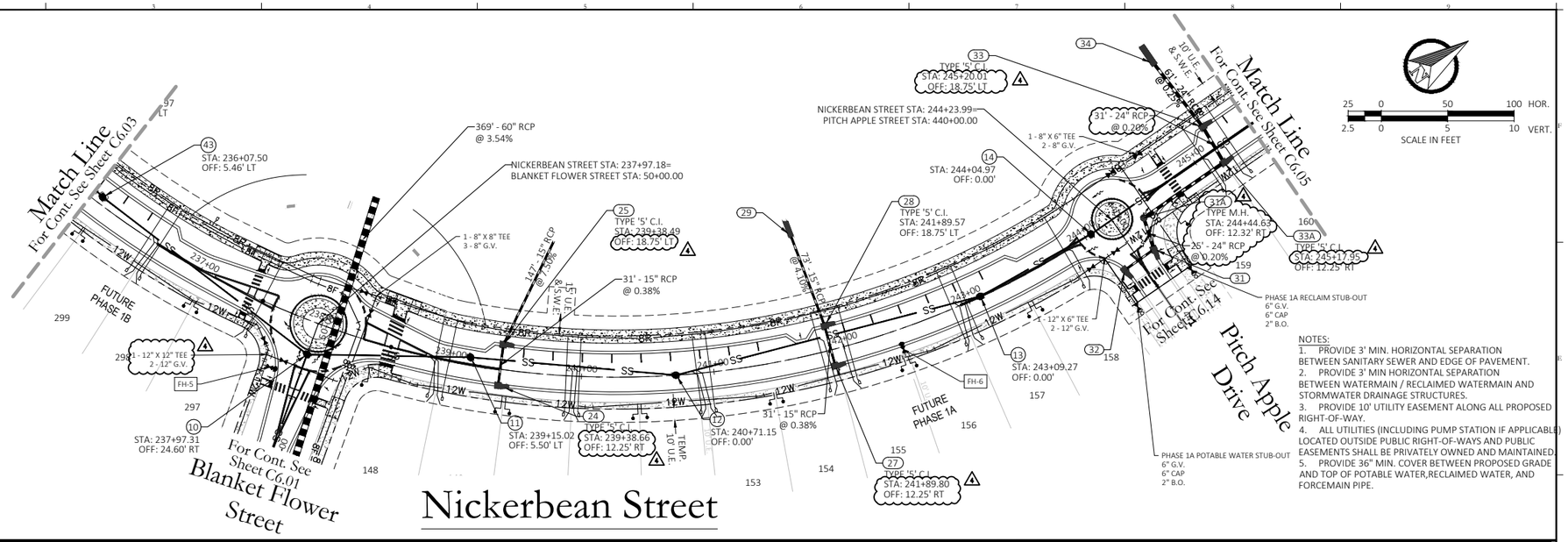
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DATE: August 7, 2023

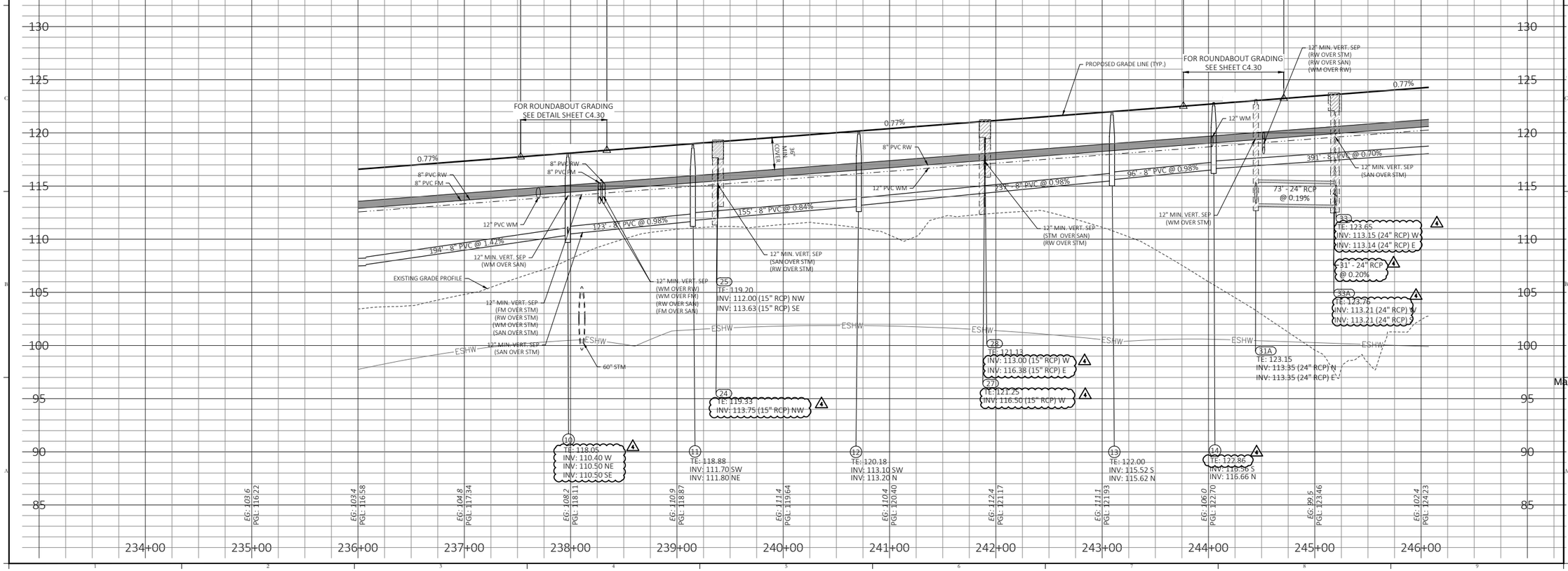
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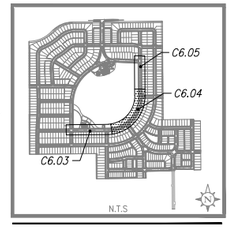
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NOTES:
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APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

NICKERBEAN STREET PLAN & PROFILE

Sheet No.:

C6.04

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

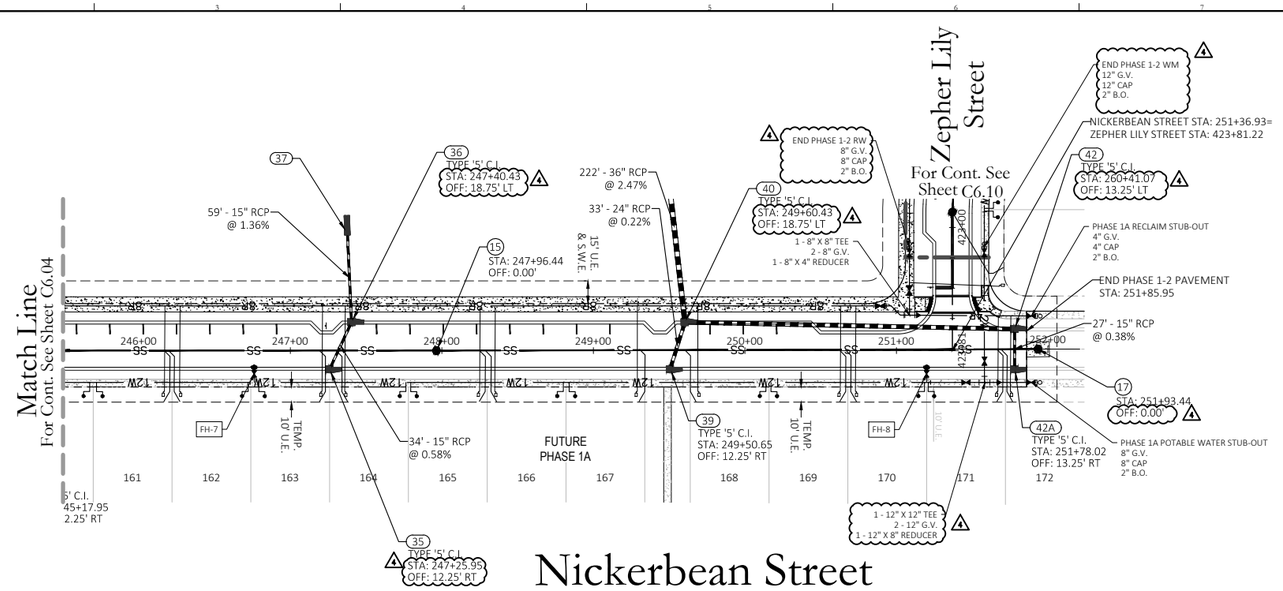
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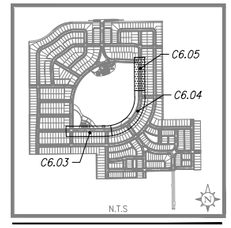
DATE: August 7, 2023

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2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

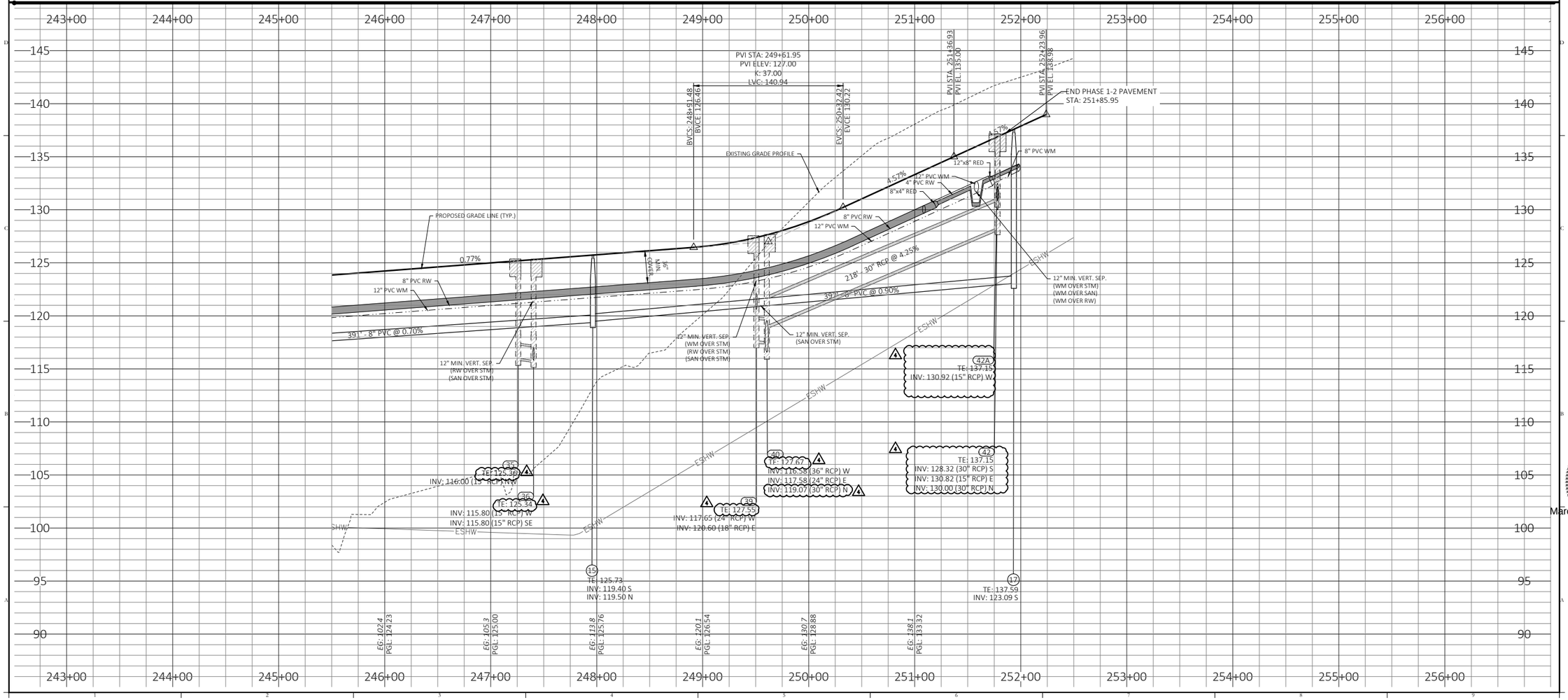
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25 0 50 100 HOR.
2.5 0 5 10 VERT.
SCALE IN FEET

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APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

NICKERBEAN PLAN & PROFILE

Sheet No.:

C6.05

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

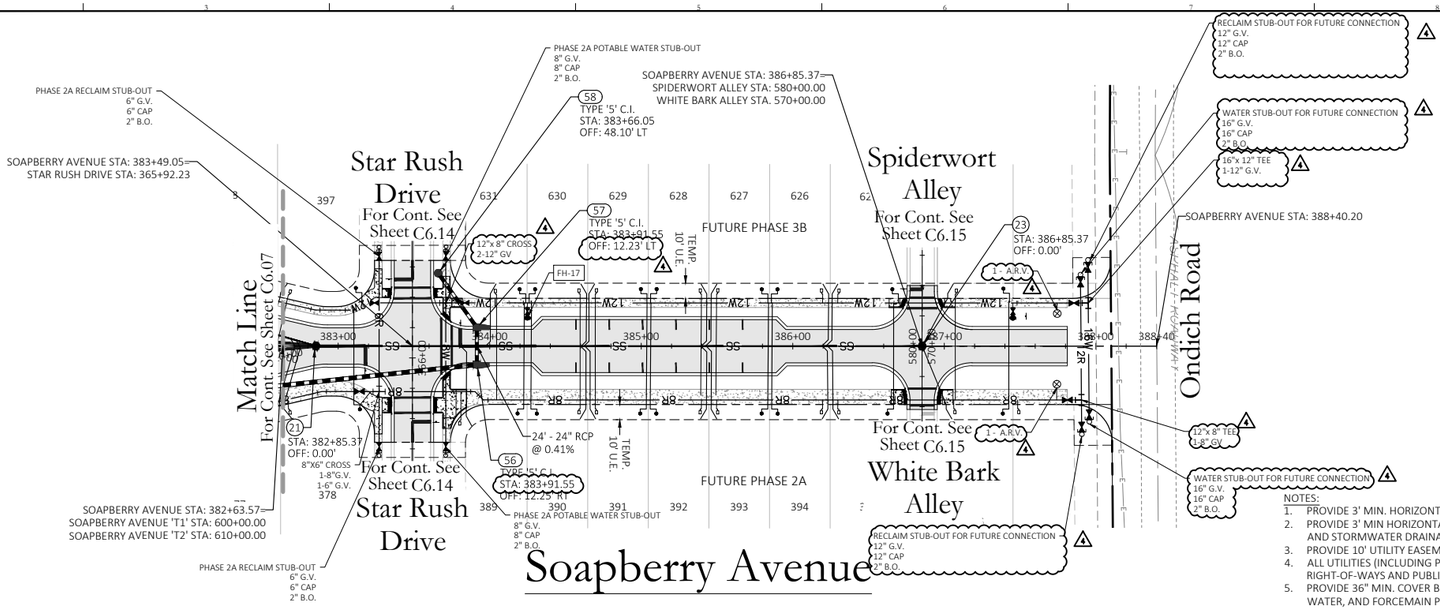
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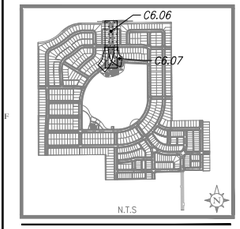
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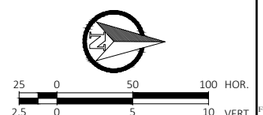
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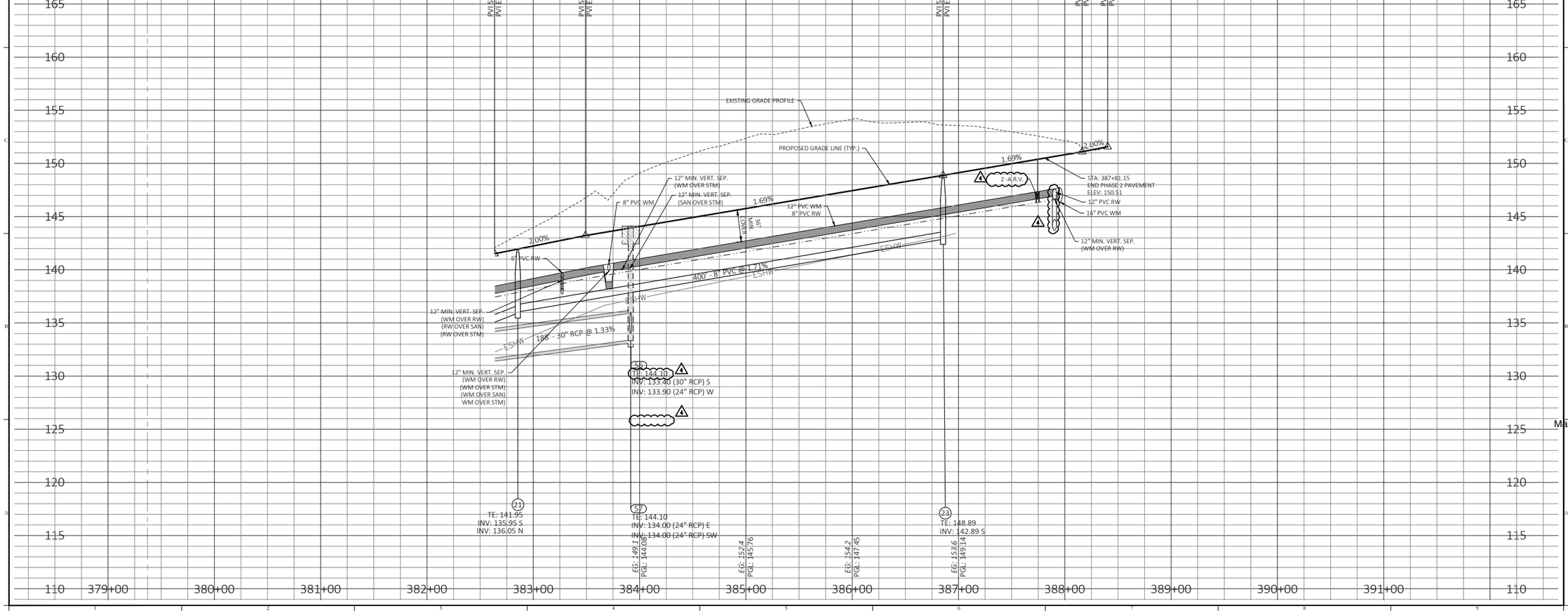
Poulos & Bennett, LLC
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Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

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APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SOAPBERRY AVENUE PLAN & PROFILE

Sheet No.:

C6.06

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

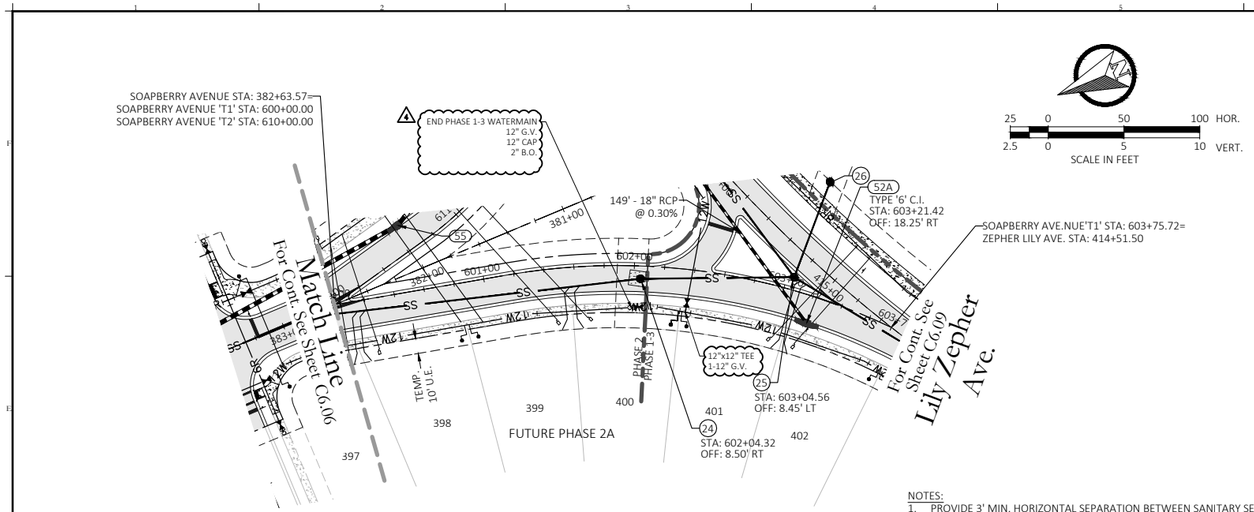
Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

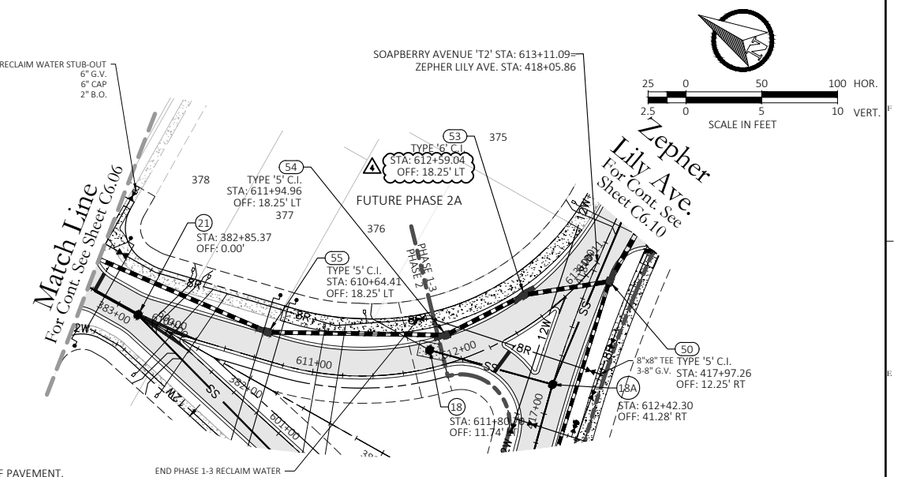
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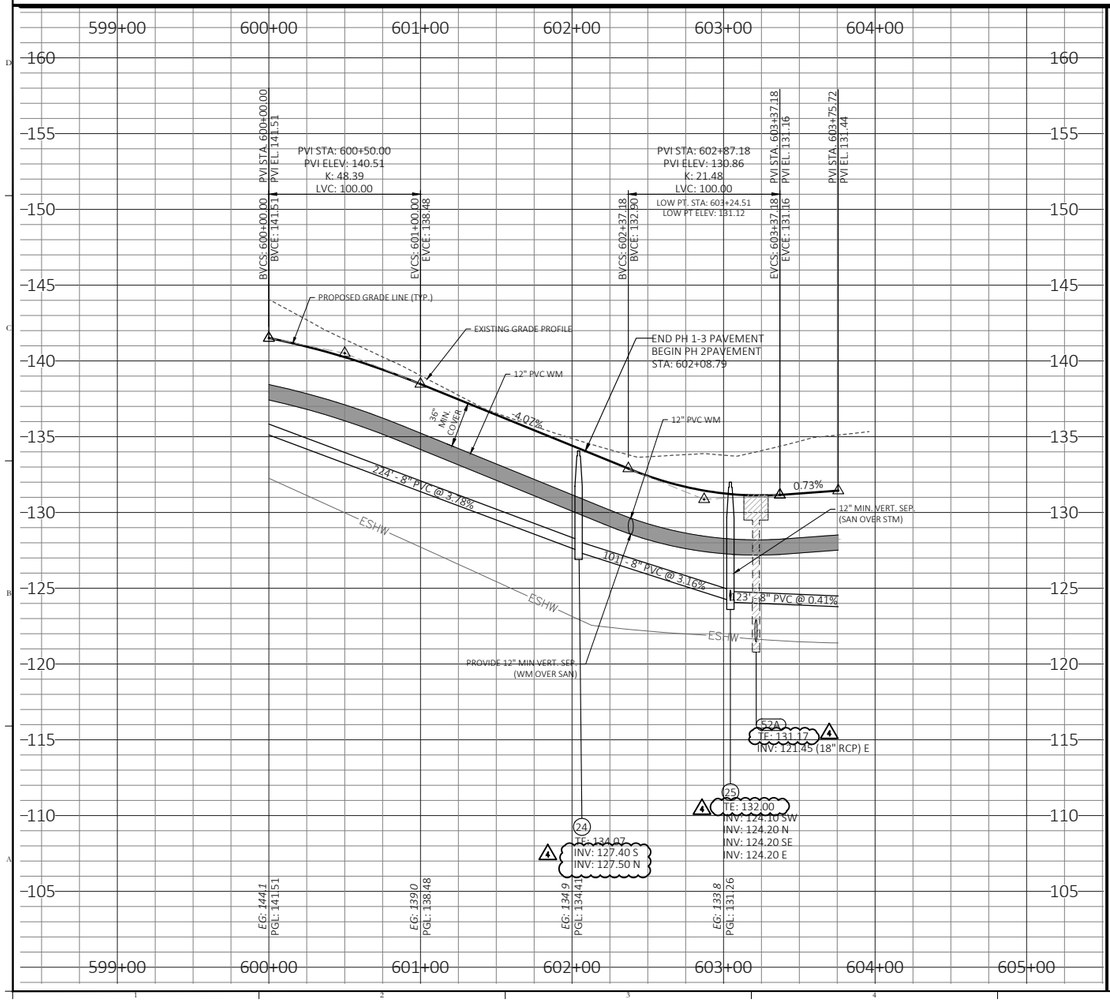


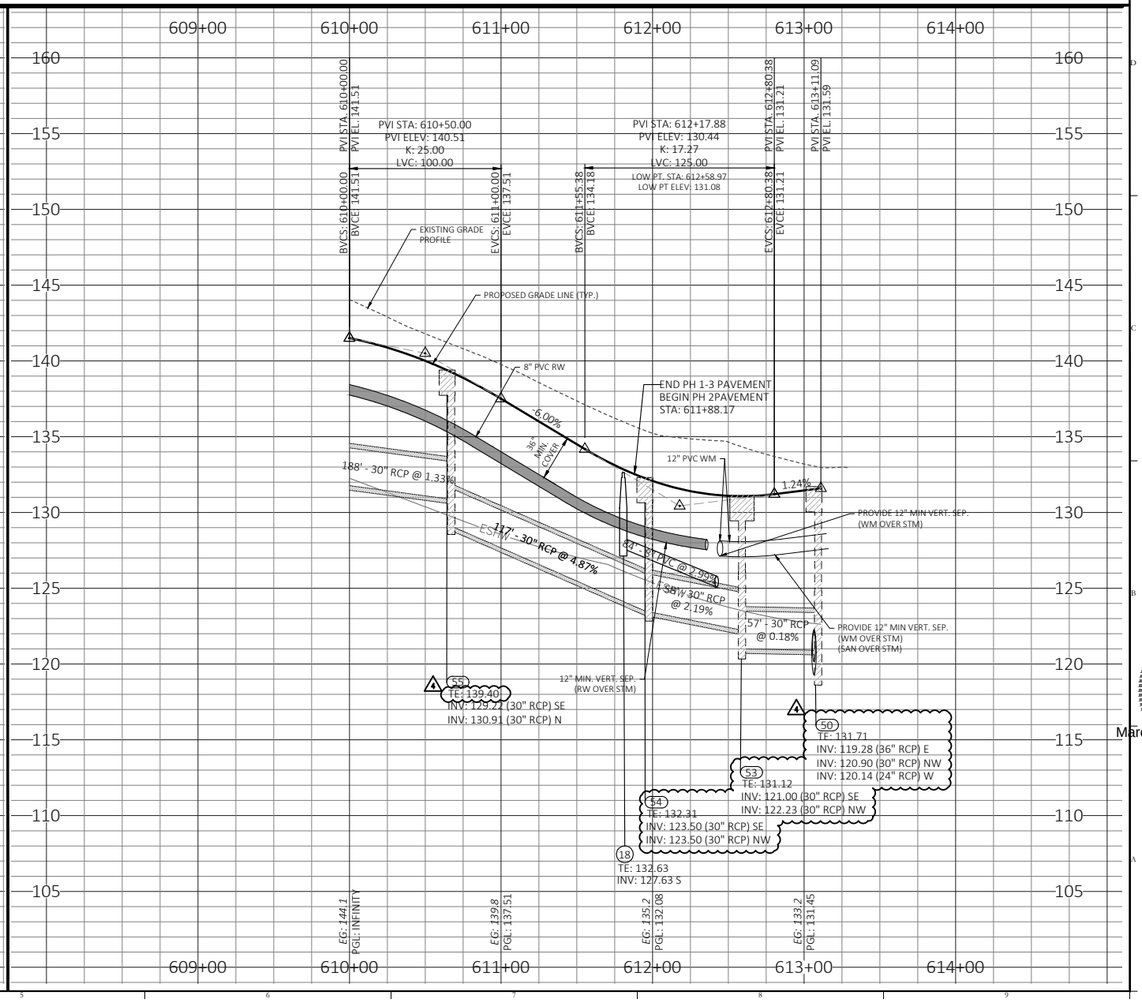
Soapberry Avenue 'T1'



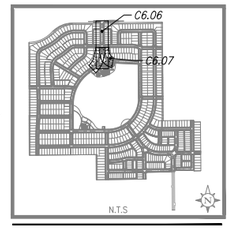
Soapberry Avenue 'T2'

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APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

SOAPBERRY AVE. 'T1&T2' PLAN & PROFILE

Sheet No.:

C6.07

Seal:



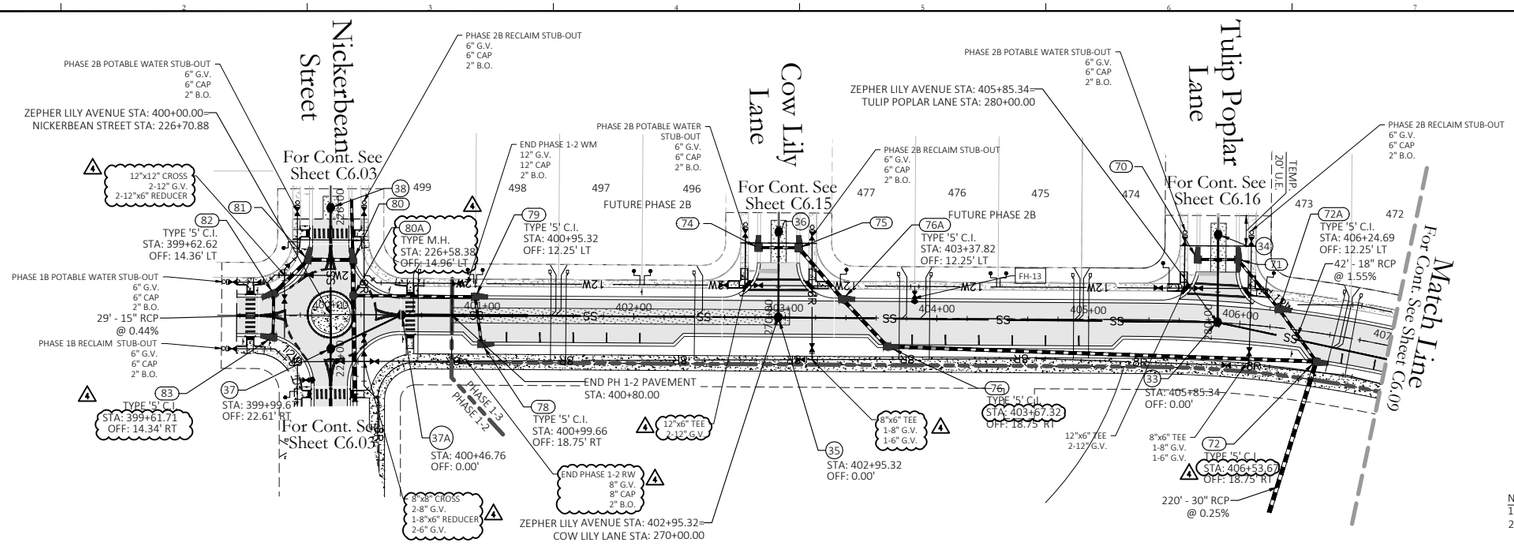
Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

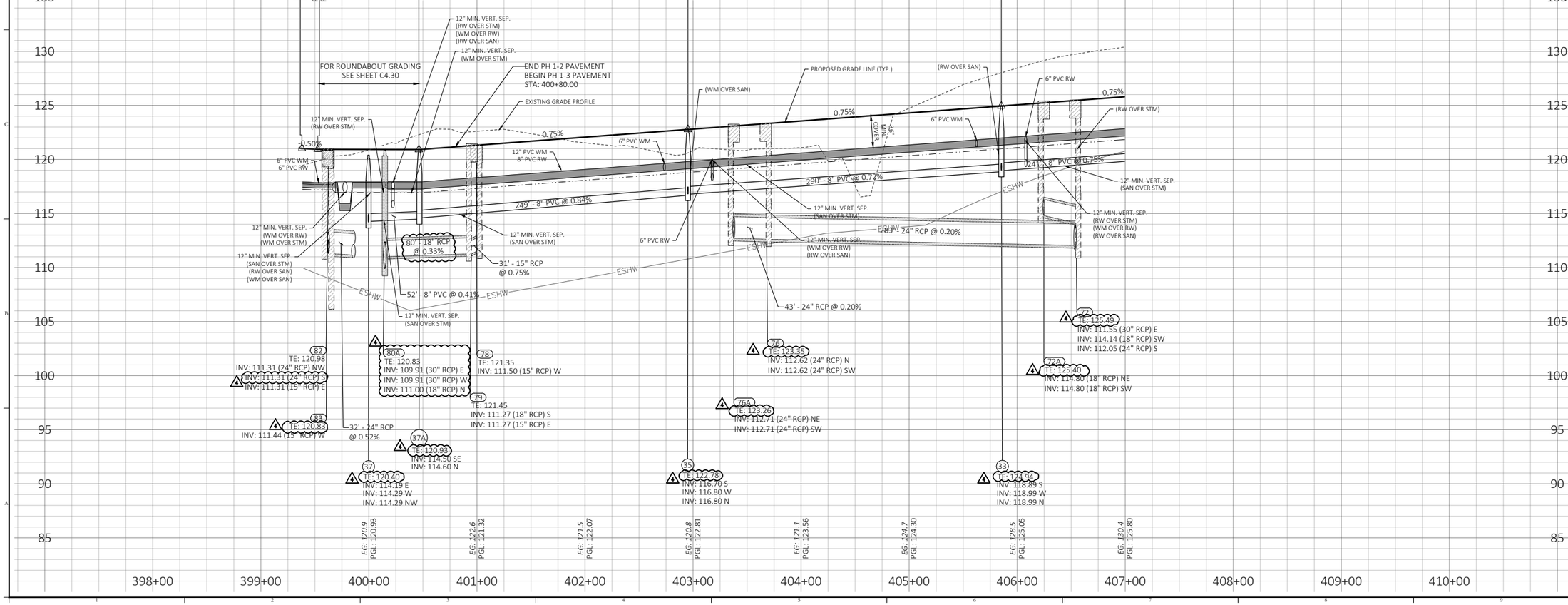
POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

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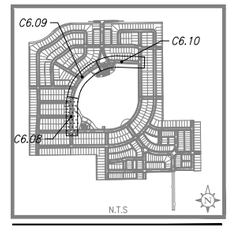
Zepher Lily Avenue



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5. PROVIDE 36" MIN. COVER BETWEEN PROPOSED GRADE AND TOP OF POTABLE WATER, RECLAIMED WATER, AND FORCEMAIN PIPE.

25 0 50 100 HOR.
2.5 0 5 10 VERT.
SCALE IN FEET

Key Map:



NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
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-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

ZEPHER LILY AVENUE PLAN & PROFILE

Sheet No.:

C6.08

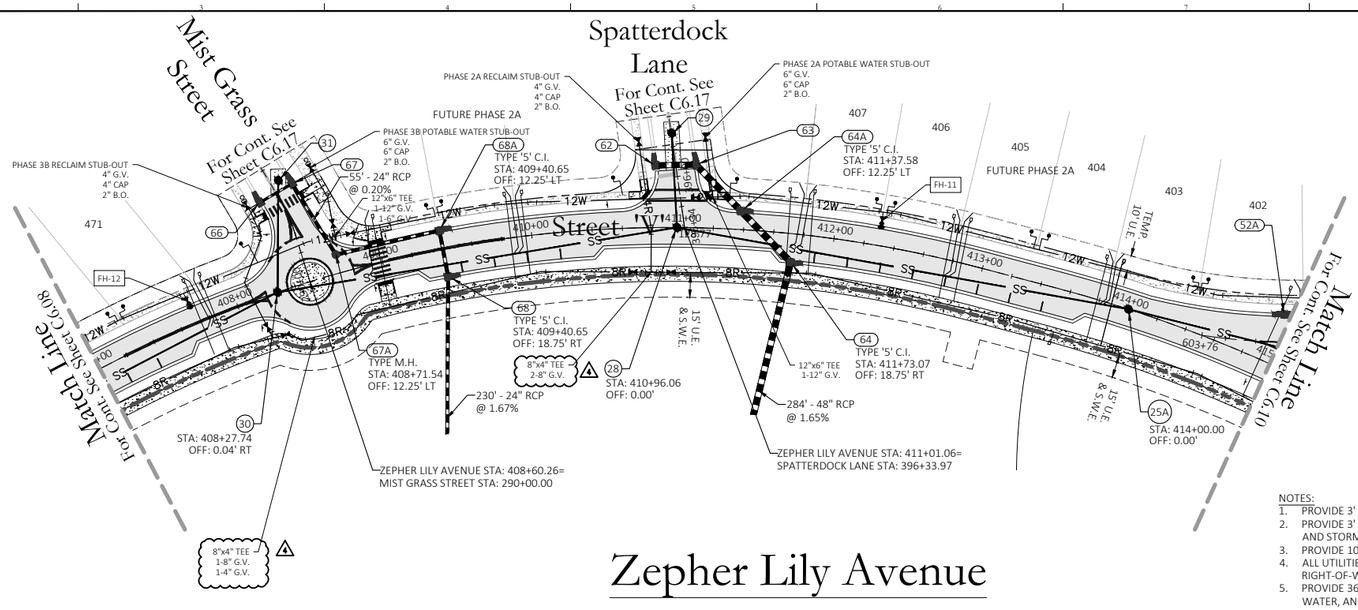
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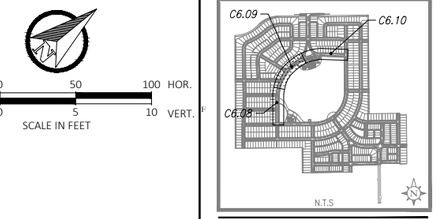
MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER
Marc D Stehli
MARC DANIEL STEHLI P.E. NO. 052781
DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

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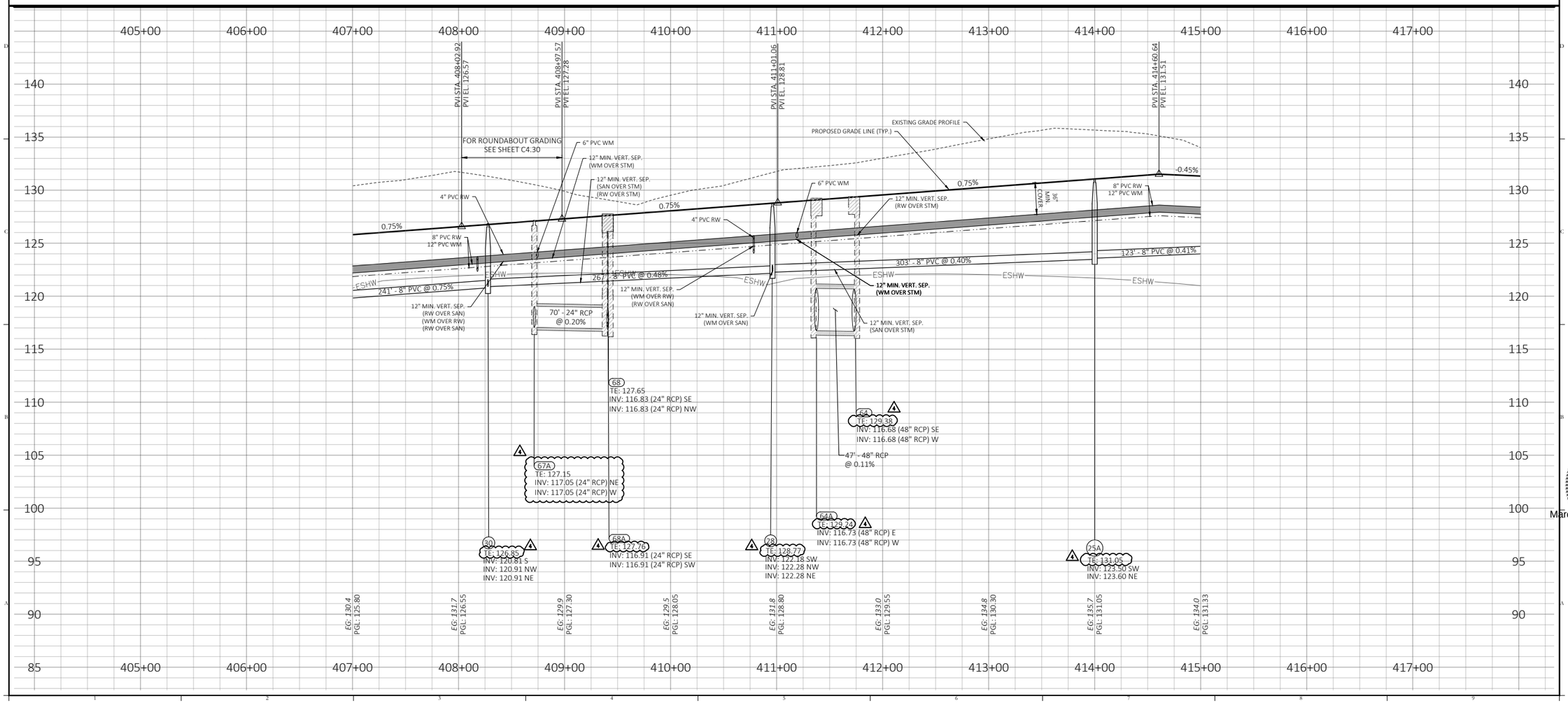




Key Map:

Zepher Lily Avenue

NOTES:
1. PROVIDE 3' MIN. HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND EDGE OF PAVEMENT.
2. PROVIDE 3' MIN HORIZONTAL SEPARATION BETWEEN WATERMAIN / RECLAIMED WATERMAIN AND STORMWATER DRAINAGE STRUCTURES.
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Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

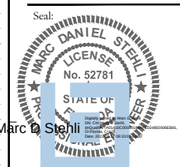
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ZEPHER LILY AVENUE PLAN & PROFILE

Sheet No.:

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Marc D Stehli

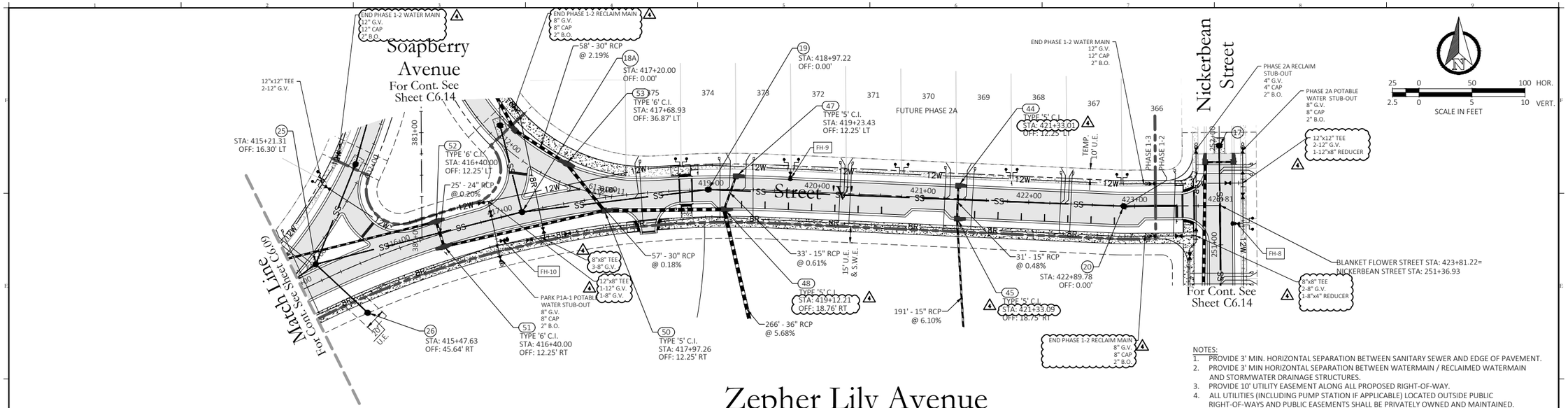
MARC DANIEL STEHLI
P.E. NO. 0052781

DATE: August 7, 2023

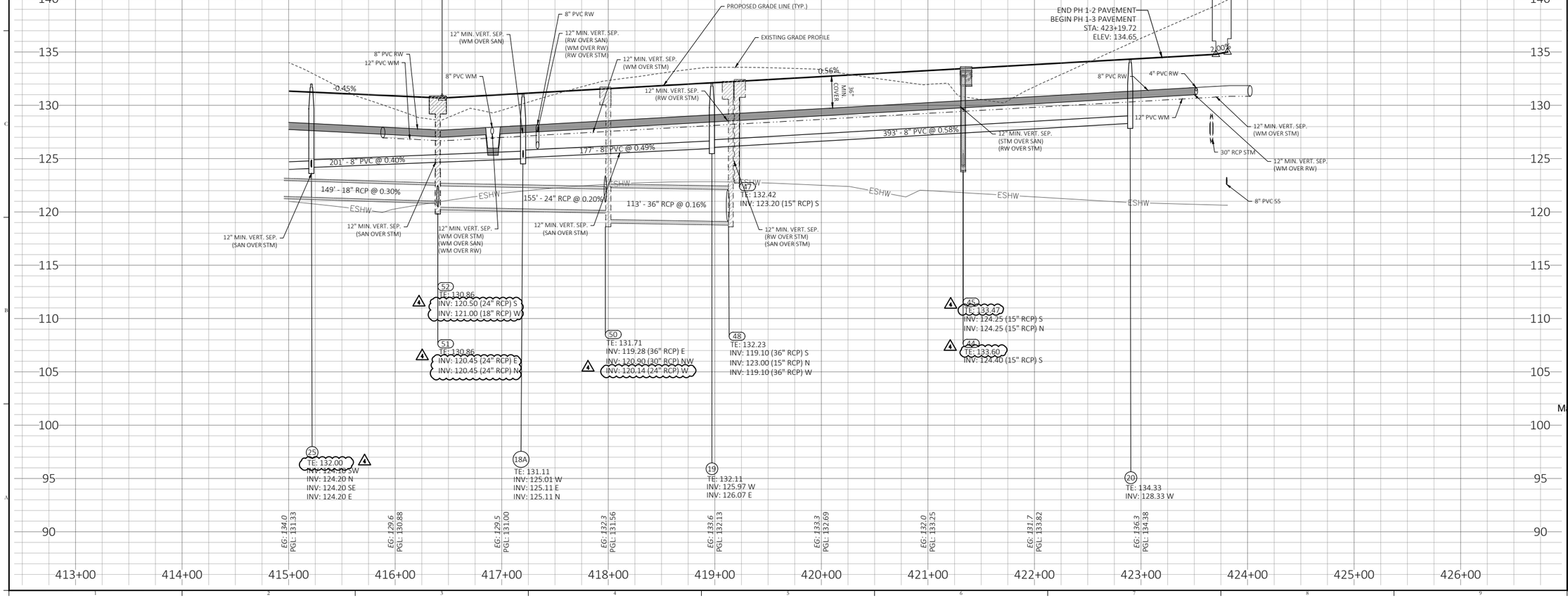
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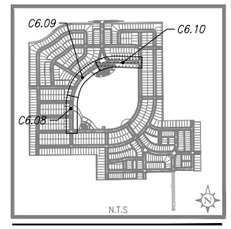
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CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

ZEPHER LILY AVENUE PLAN & PROFILE

Sheet No.:

C6.10

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

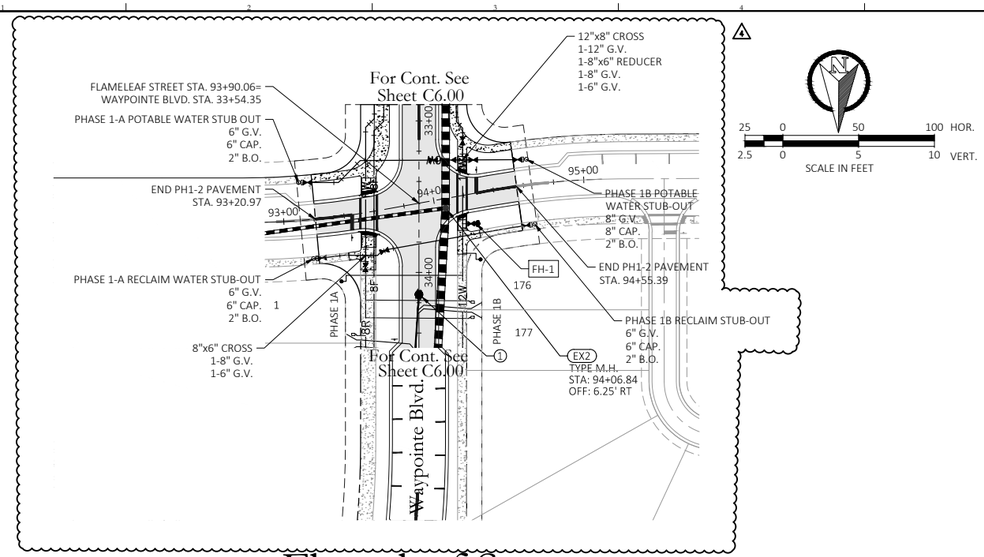
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DATE: August 7, 2023

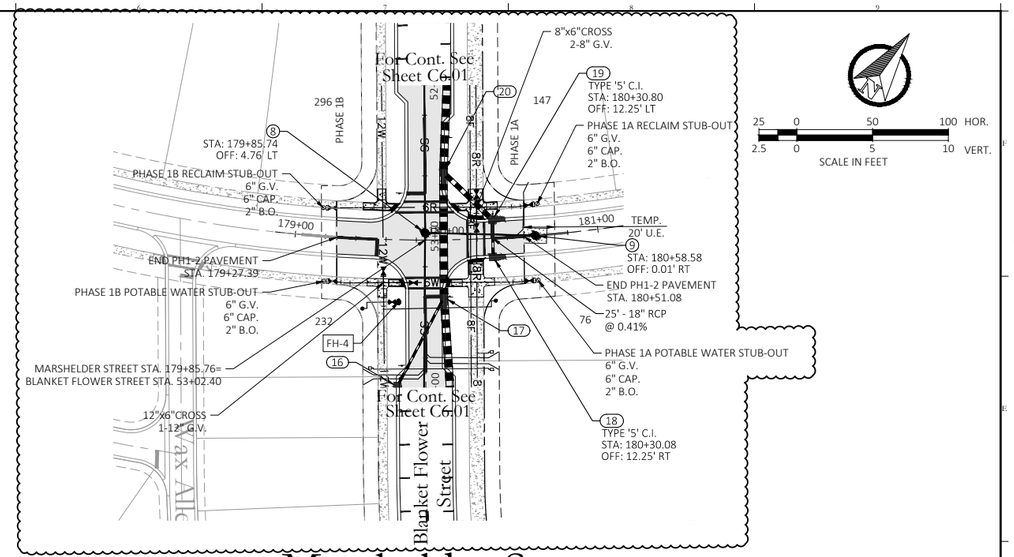
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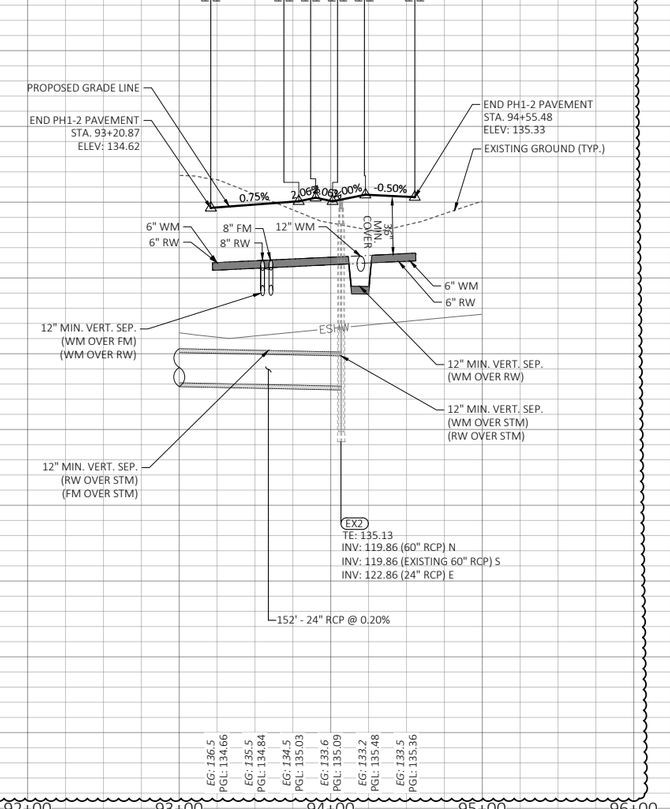
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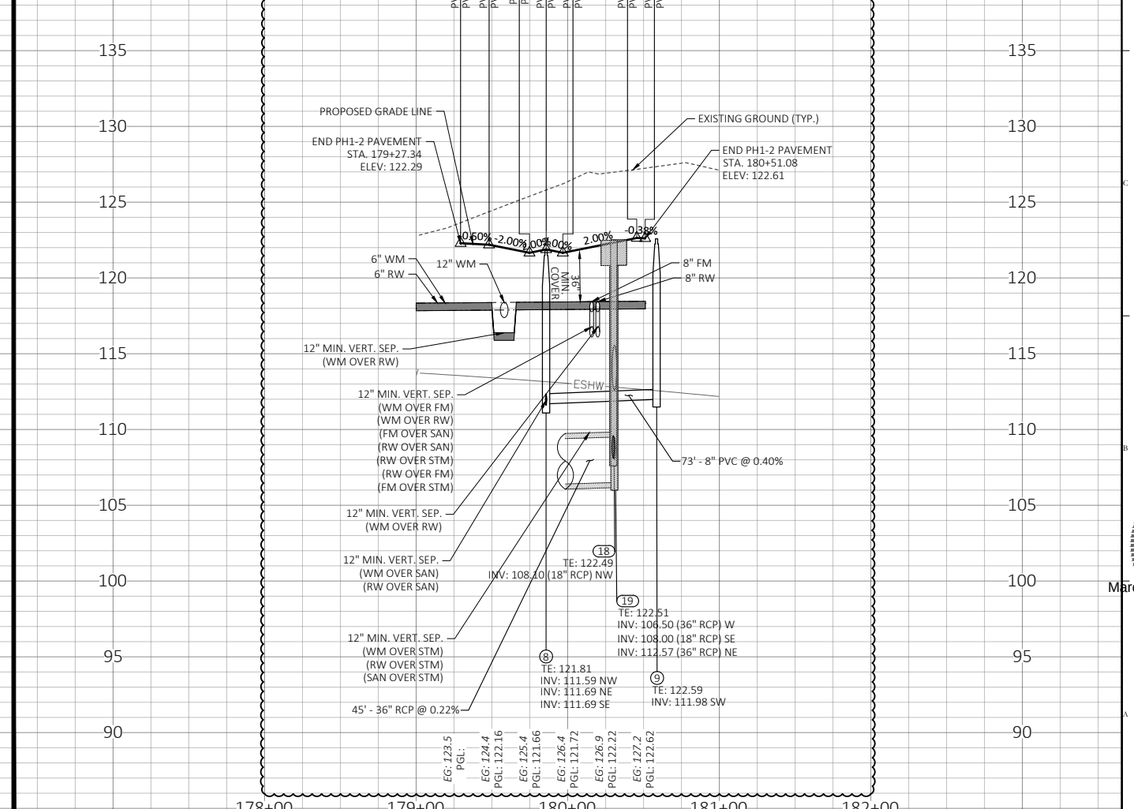


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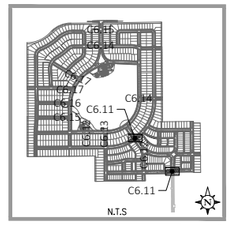


Marshelder Street





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Project Name:

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Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

PLAN & PROFILE

Sheet No.:

C6.11

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC DANIEL STEHLI P.E. NO. 0052781

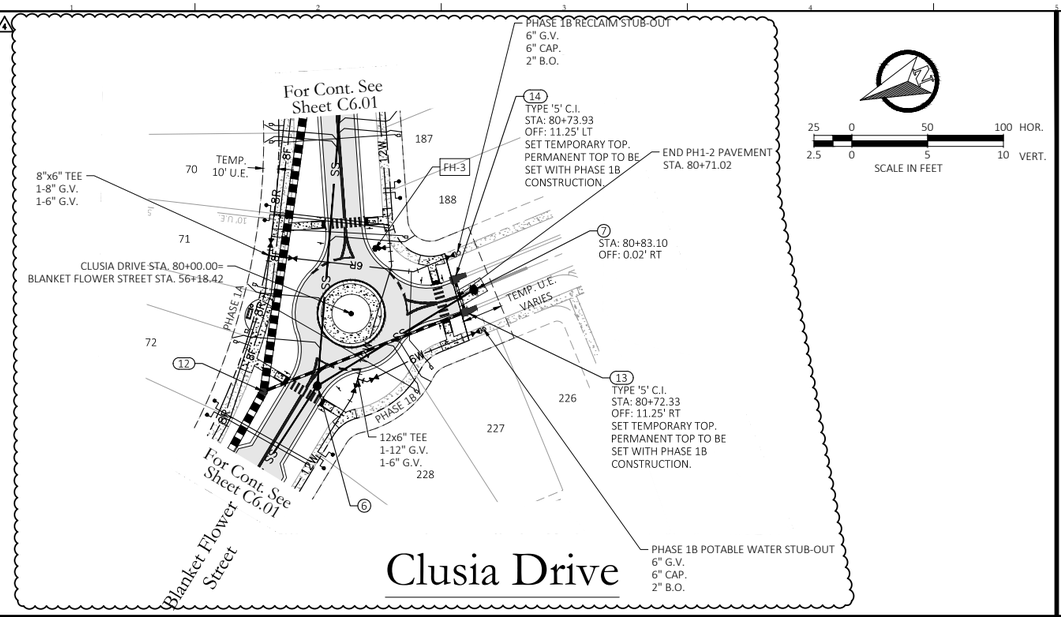
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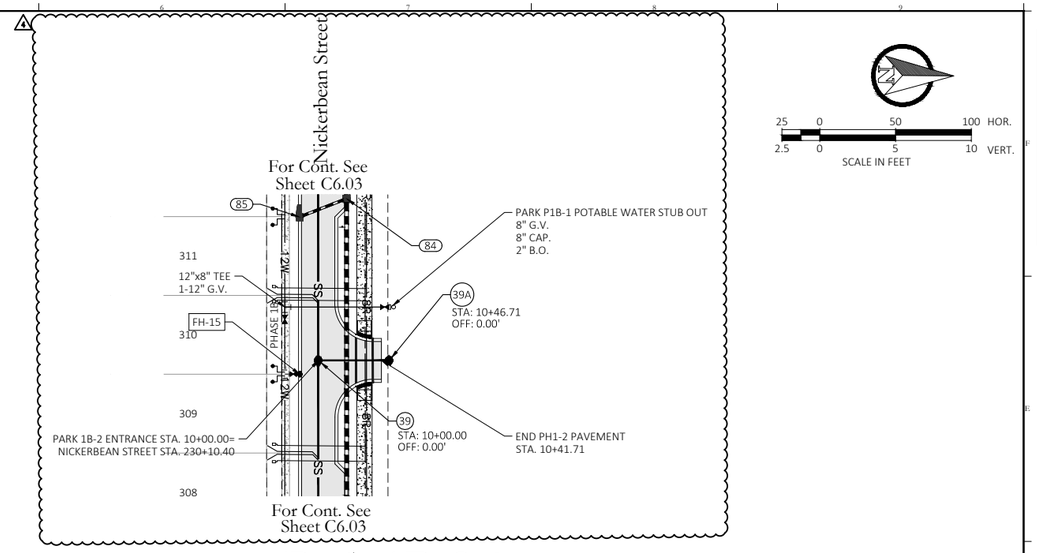
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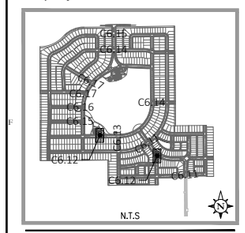
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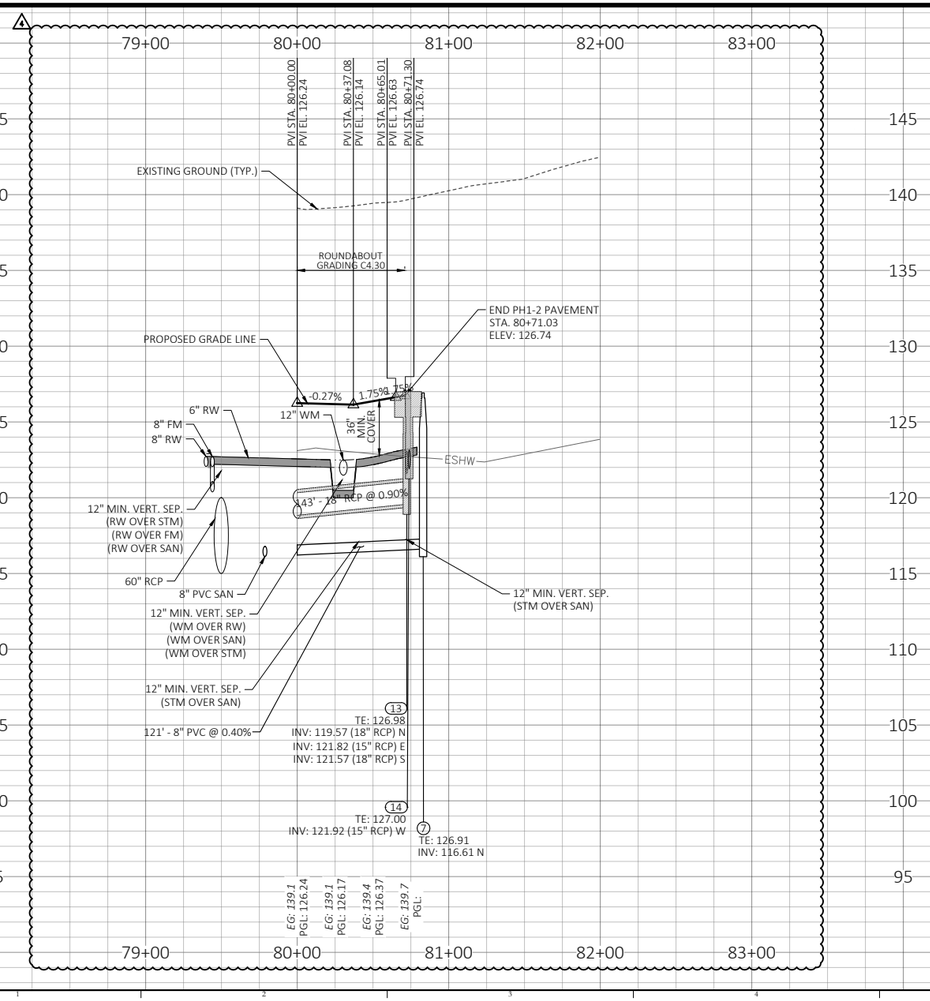
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2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

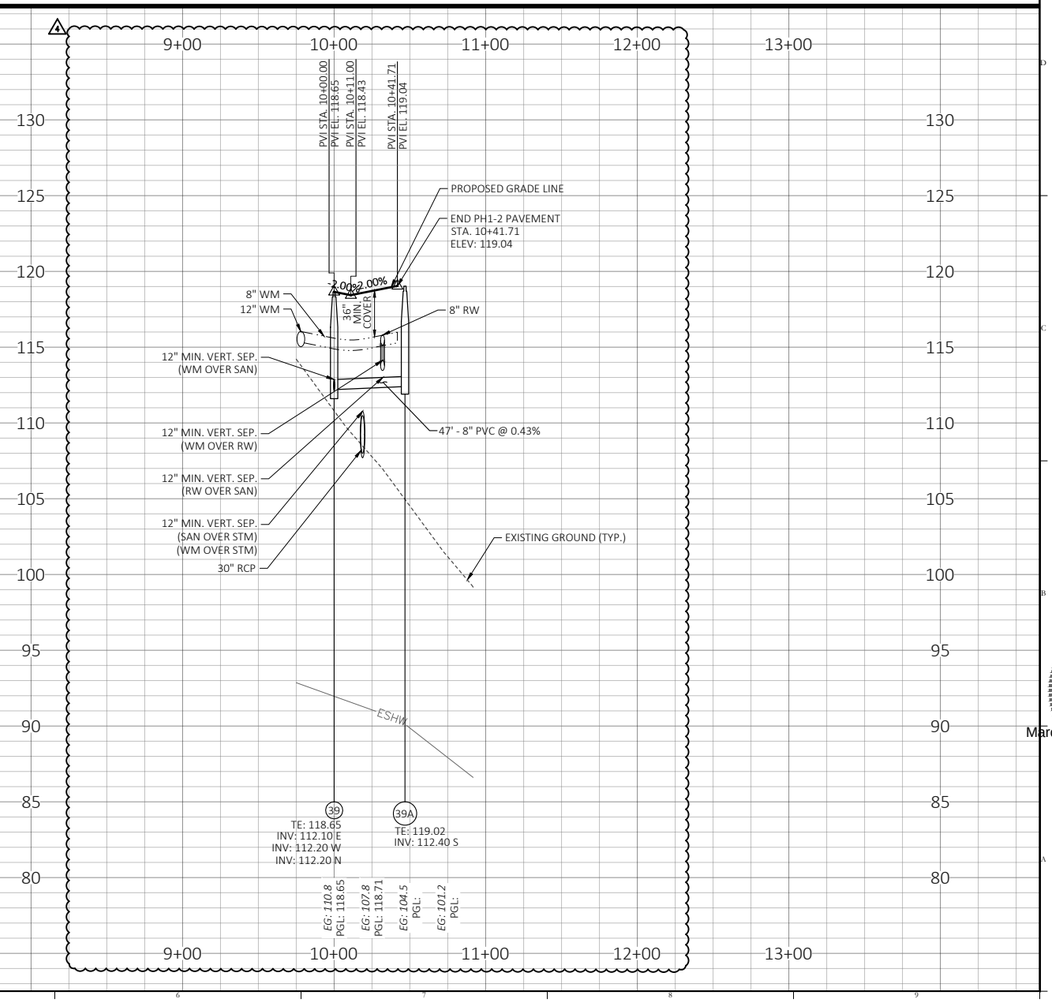
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CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

PLAN & PROFILE

Sheet No.:

C6.12

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

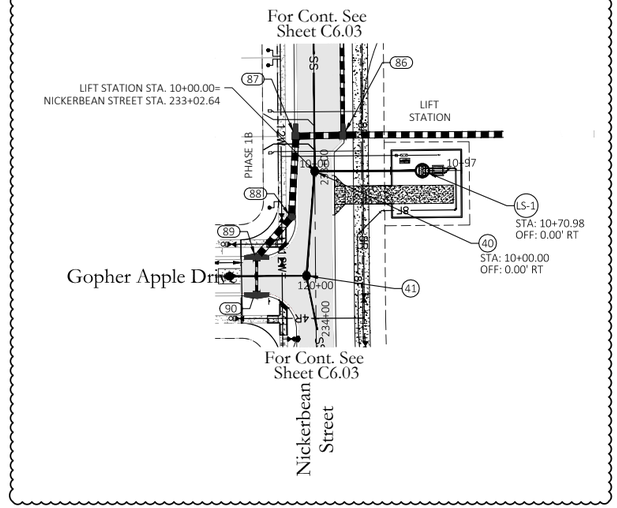
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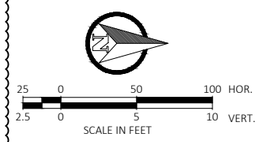
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P.E. NO. 052781
DATE: August 7, 2023

POULOS & BENNETT

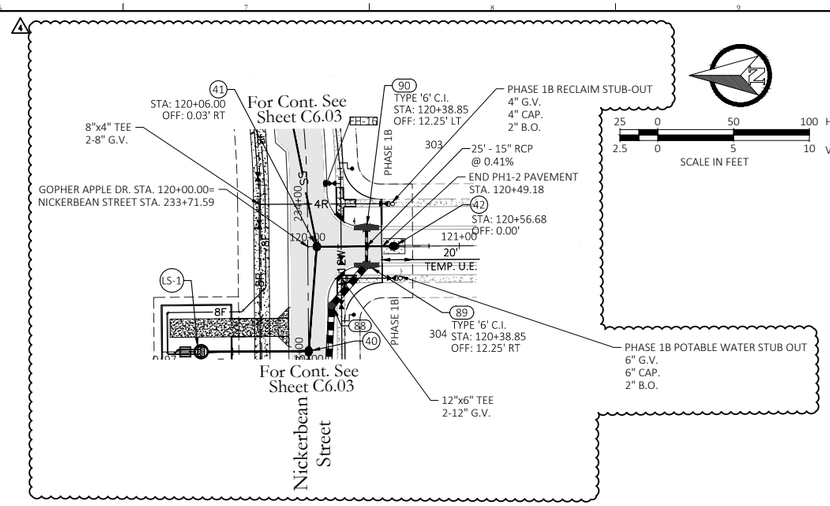
Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
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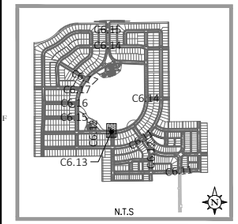


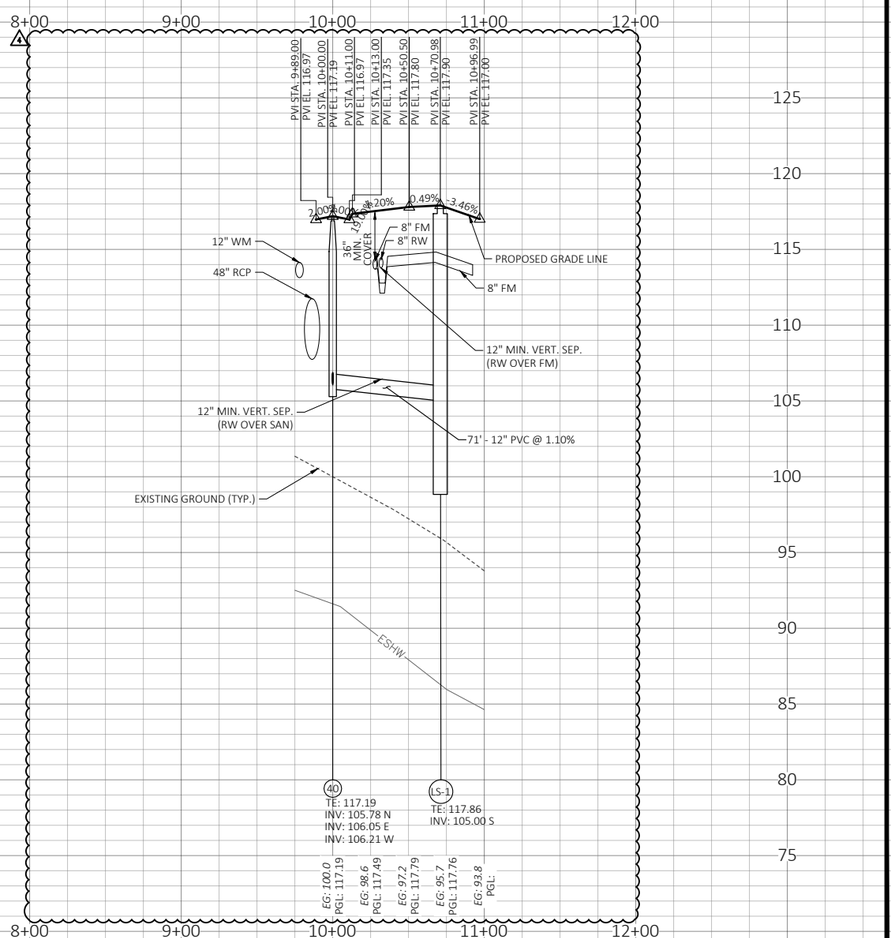
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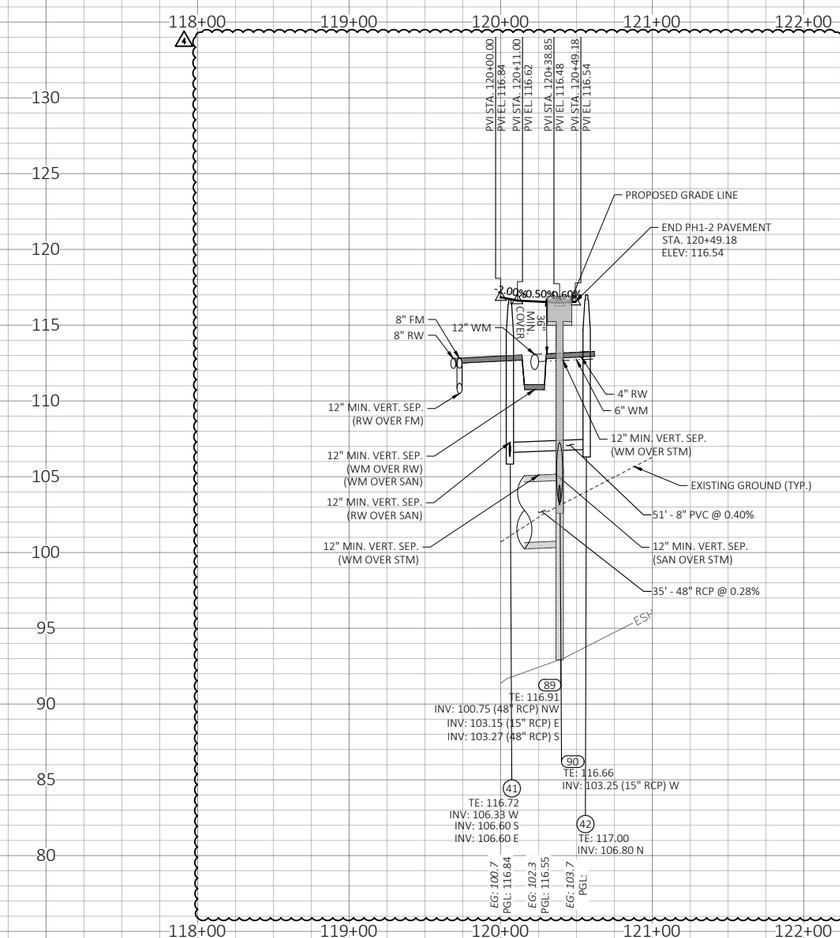


Gopher Apple Dr.

Key Map:







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Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

PLAN & PROFILE

Sheet No.:

C6.13

Seal:

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Marc D Stehli

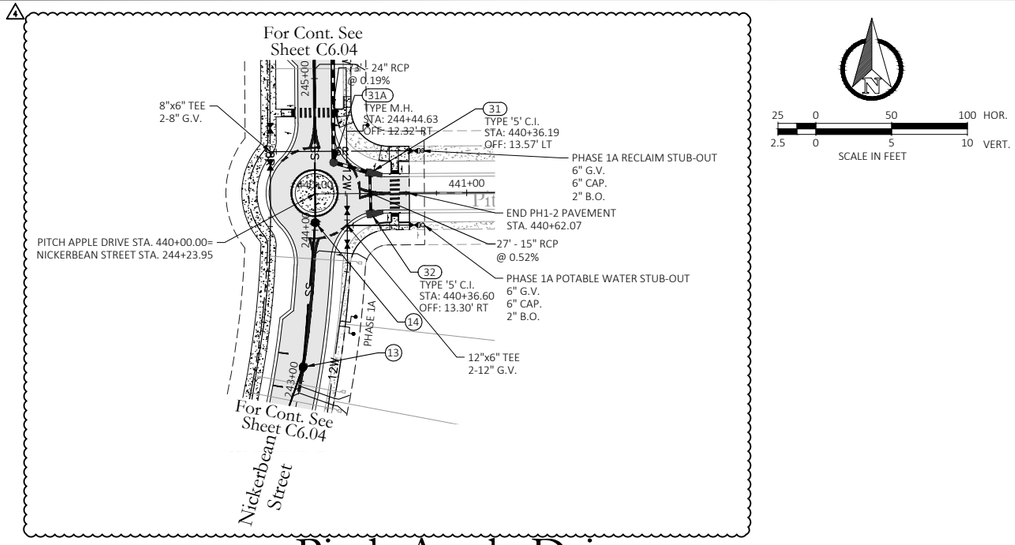
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DATE: August 7, 2023

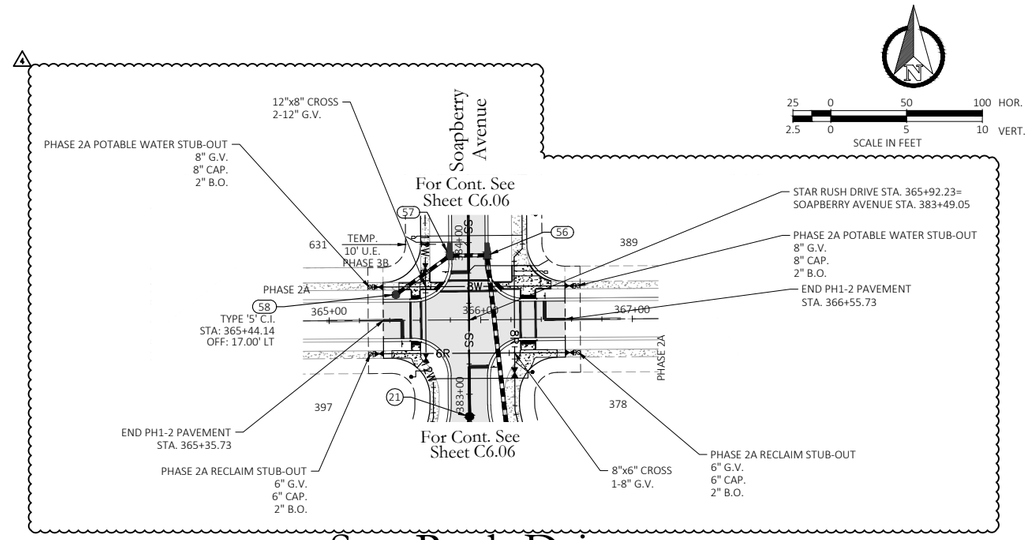
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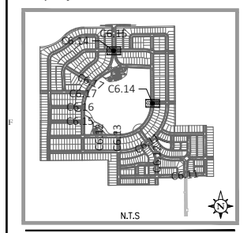
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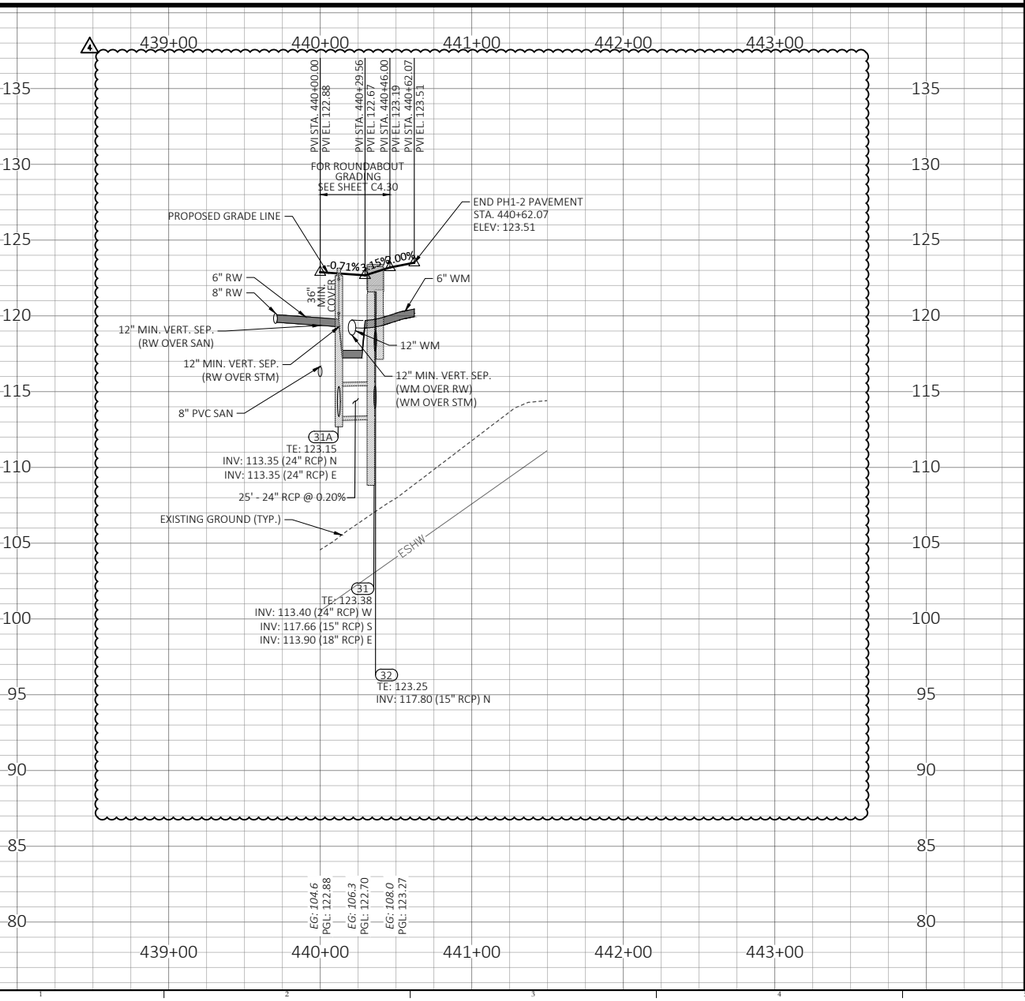


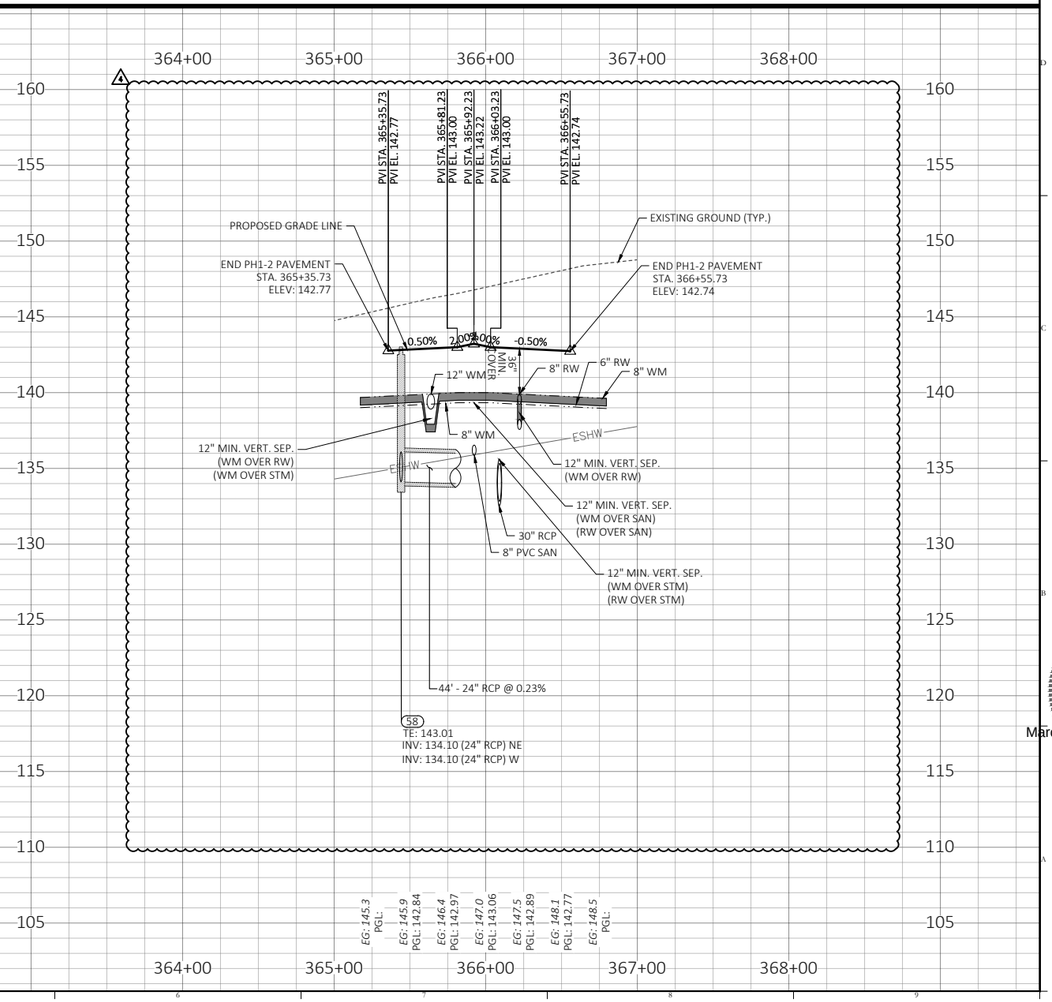
Pitch Apple Drive



Star Rush Drive







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Sheet No.:

C6.14

Seal:

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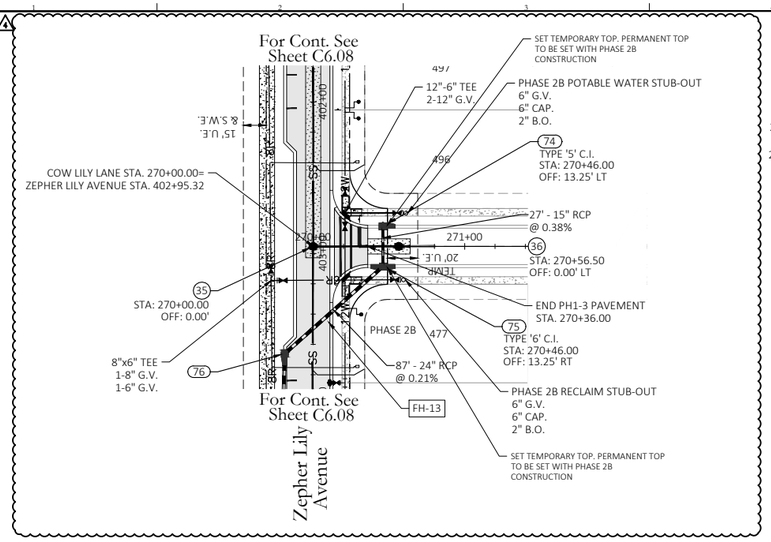
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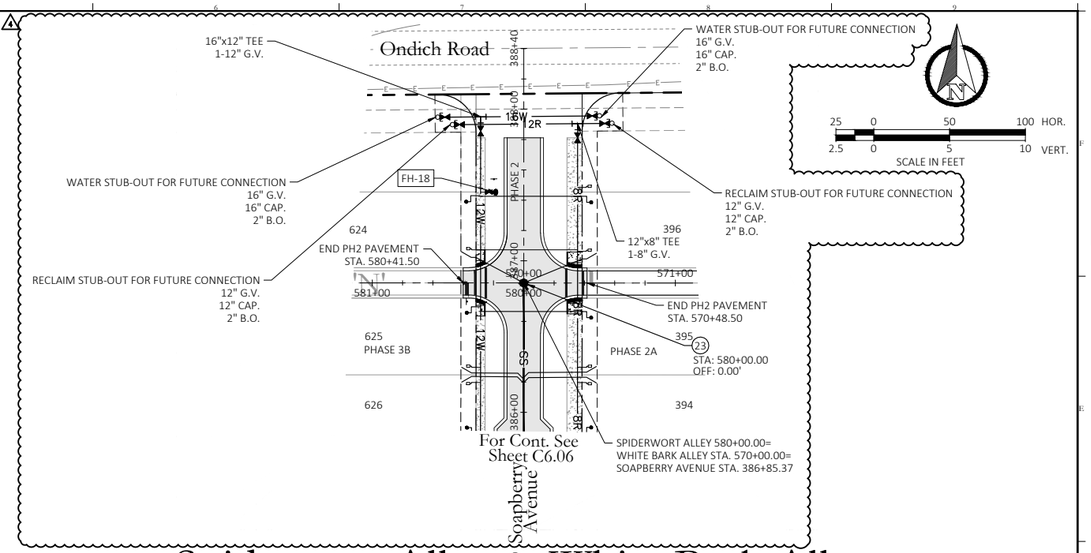
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Eng. Bus. No. 28567

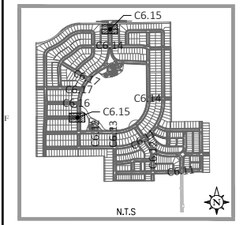
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Cow Lily Lane



Spiderwort Alley & White Bark Alley



NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

PLAN & PROFILE

Sheet No.:

C6.15

Seal:

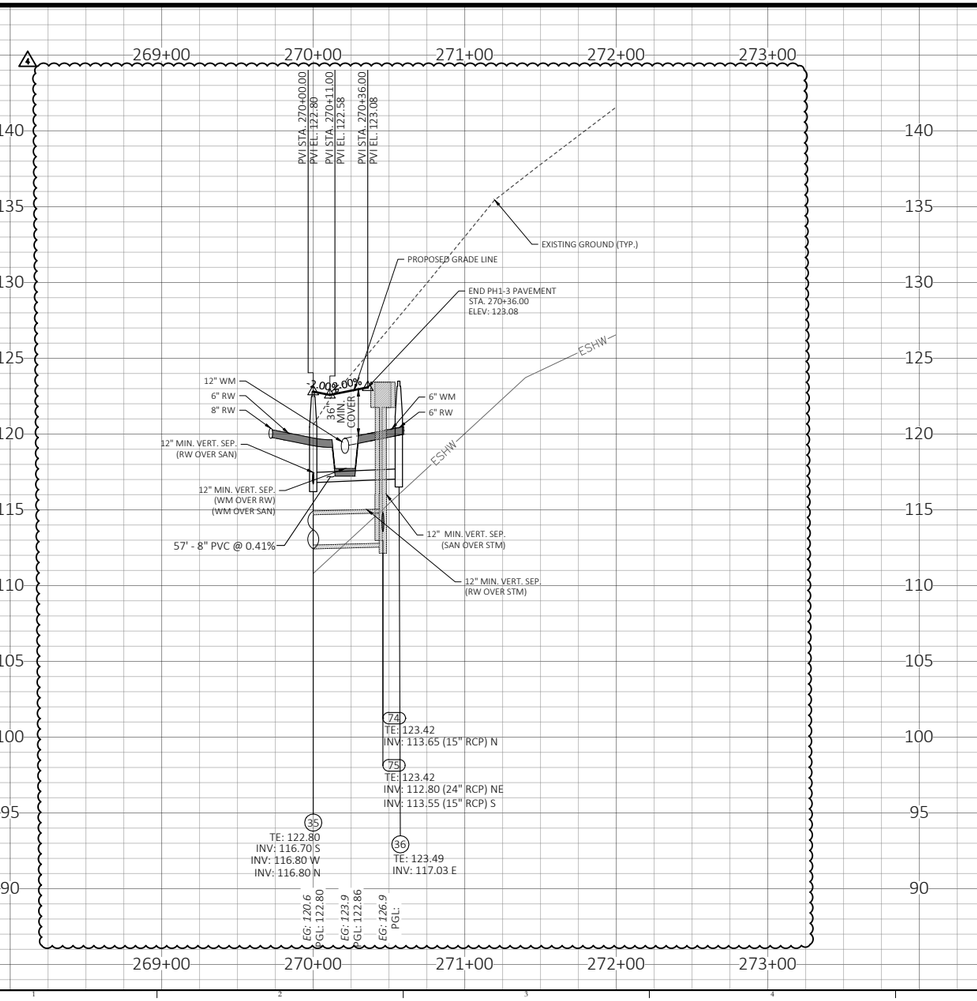
MARC DANIEL STEHLI
LICENSE
No. 52781
STATE OF FLORIDA
PROFESSIONAL ENGINEER

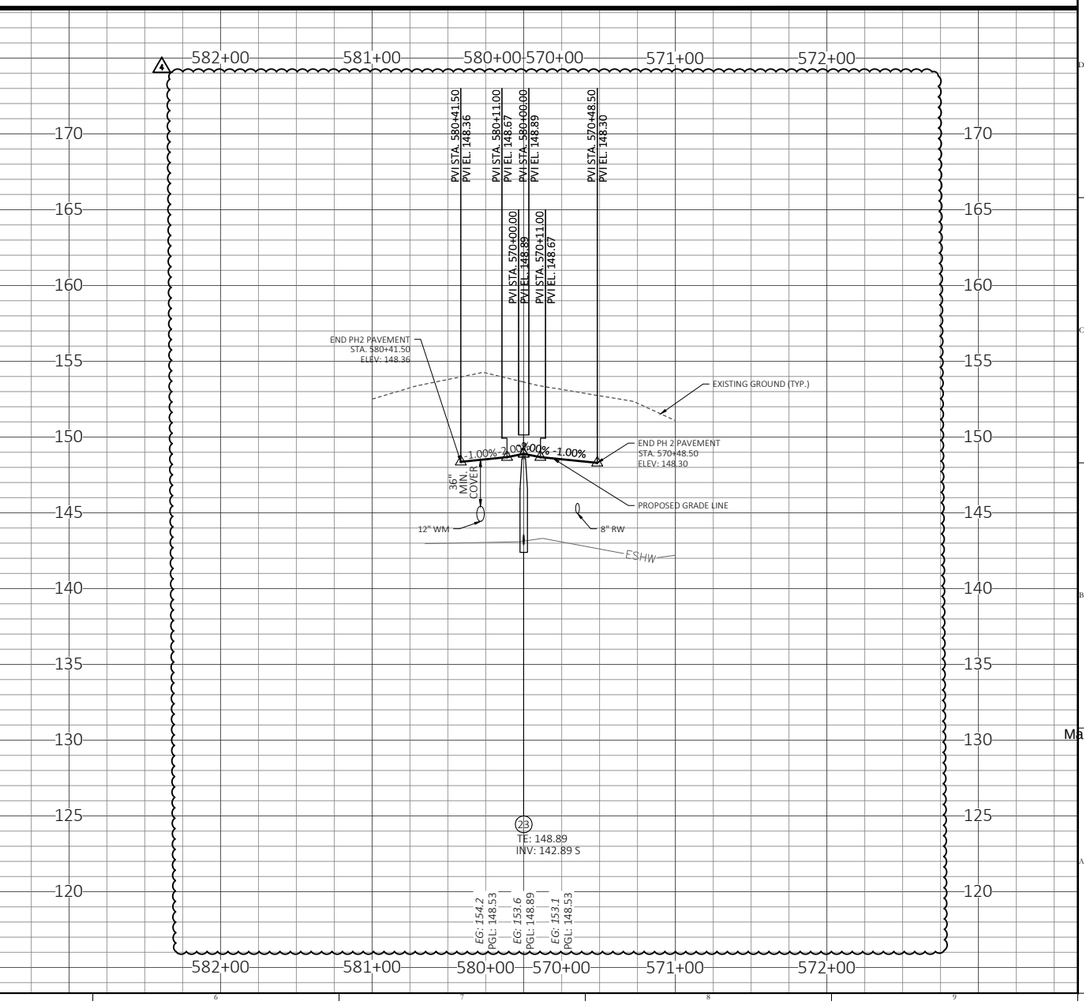
Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

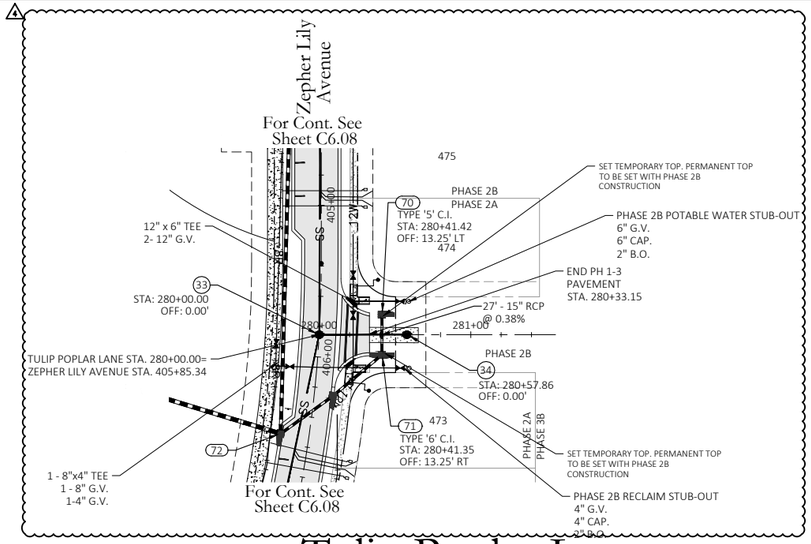
POULOS & BENNETT

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2602 E. Livingston St., Orlando, FL 32803
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Eng. Bus. No. 28567

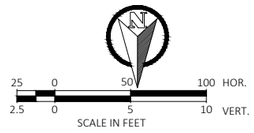




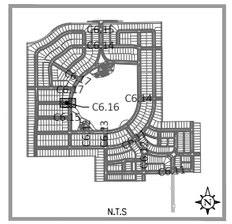
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Tulip Poplar Lane



Key Map:



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SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

PLAN & PROFILE

Sheet No.:

C6.16

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

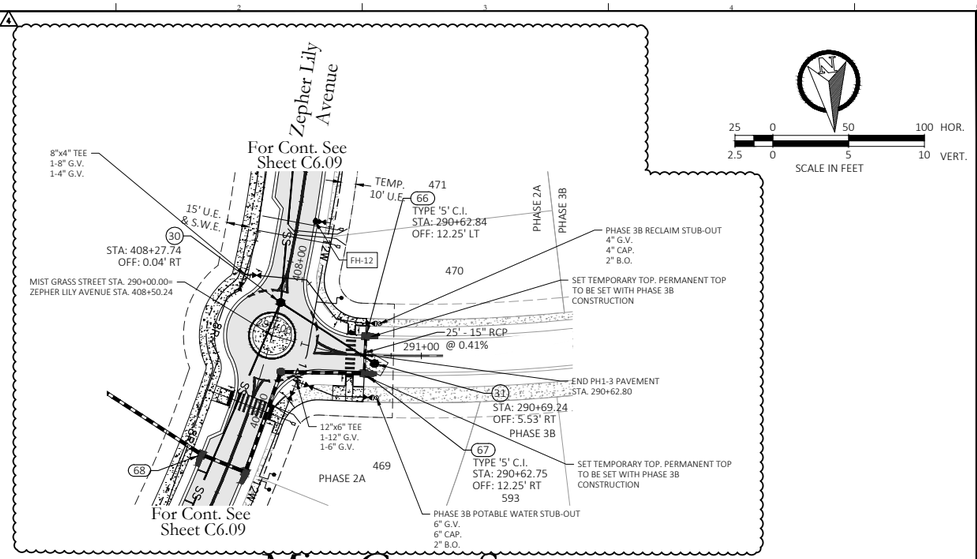
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DATE: August 7, 2023

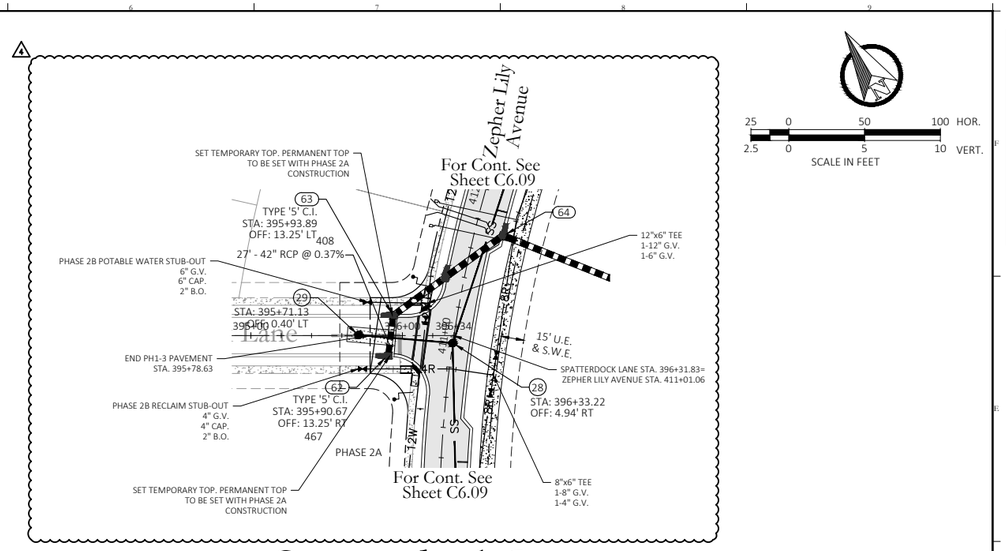
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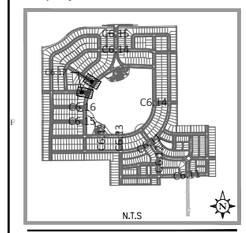
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Mist Grass Street



Spatterdock Lane



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SCALE IN FEET:	1" = 50'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

PLAN & PROFILE

Sheet No.:

C6.17

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

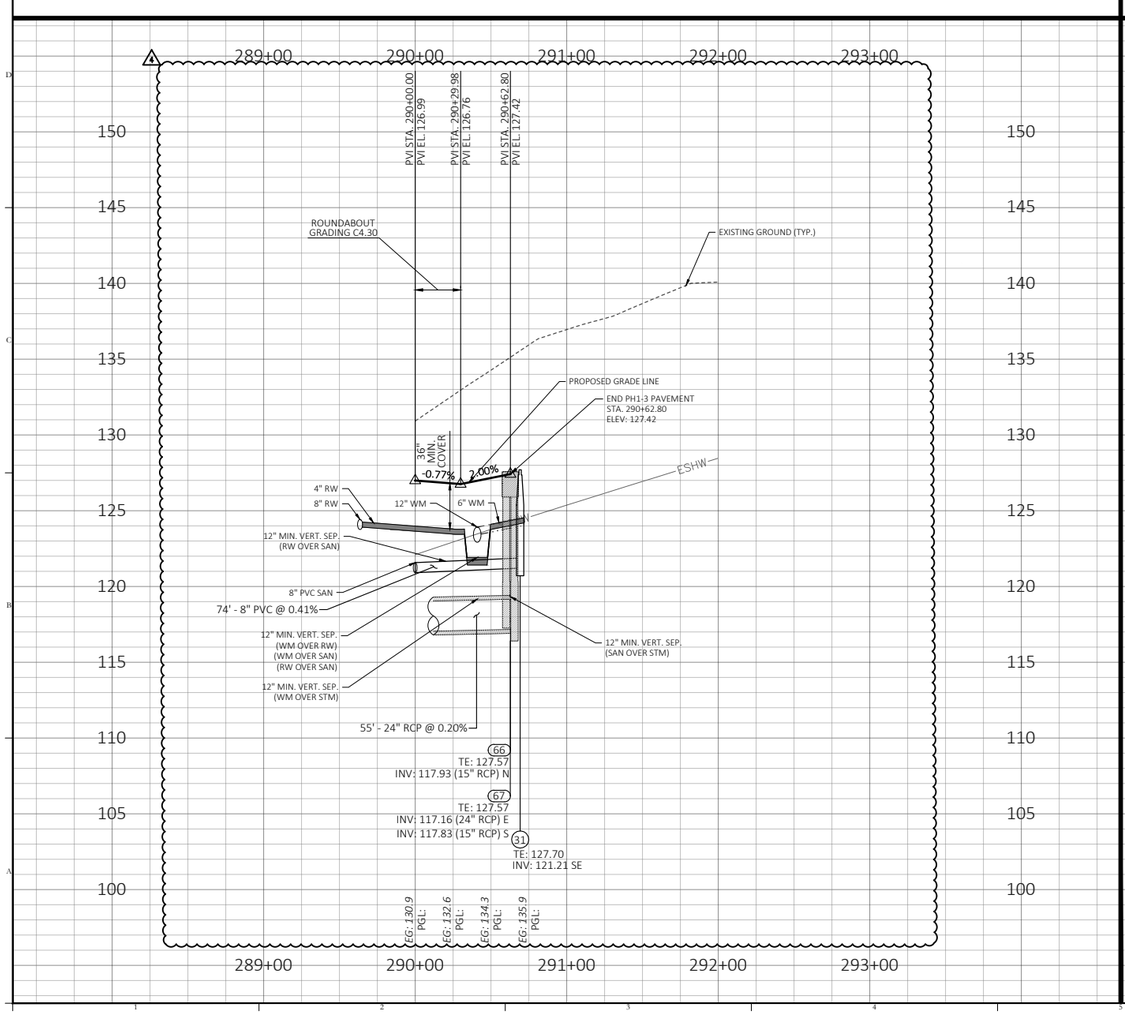
Marc D Stehli

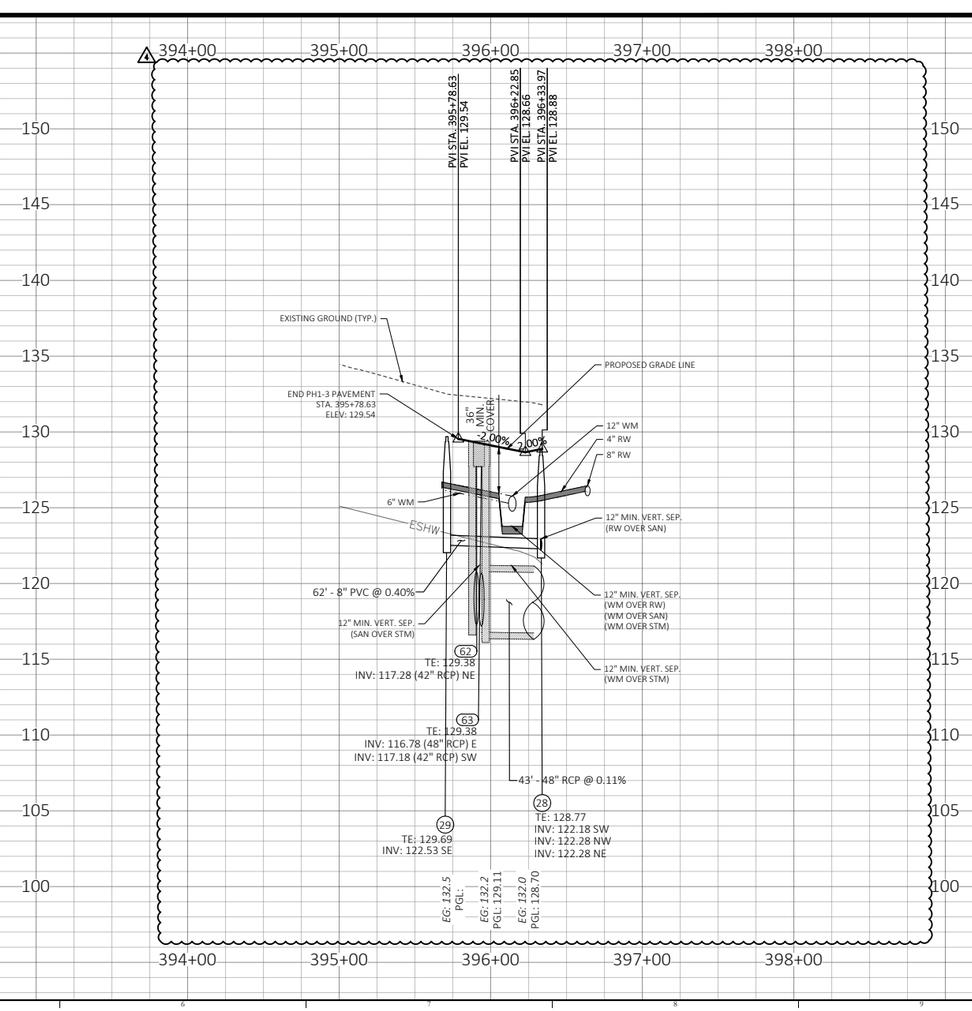
MARC DANIEL STEHLI P.E. NO. 0052781

DATE: August 7, 2023

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Match Line
For Cont. See Sheet C7.01

SW-1
STORMWATER TRACT
(28.89 Ac.)

FUTURE
PHASE 2B

FUTURE
P1-B-2
PARK TRACT
(3.00 Ac.)

FUTURE
PHASE 1A

FUTURE
PHASE 1B

FUTURE CROSSROADS @ KELLY PARK PHASE 3

TRACT FD-1
FUTURE DEVELOPMENT
(1.57 Ac.)

TRACT FD-3
FUTURE
DEVELOPMENT
(13.58)

TRACT MF-P2-1
MULTI-FAMILY
(16.00 Ac.)

EXISTING FIRE
HYDRANT
PHASE 1-1

EXISTING PHASE 1-1

Zephyr Lily Avenue

Nickerbean Street

Blanket Flower Street

Warpoint Street

PHASE 1-3
PHASE 1-2

FH-1
FH-2
FH-3
FH-4
FH-5
FH-13
FH-14
FH-15
FH-16

12W

50 0 100 200
SCALE IN FEET

45.7
8.75 20.42

FIRE TRUCK 95-PLATFORM (N.T.S.)

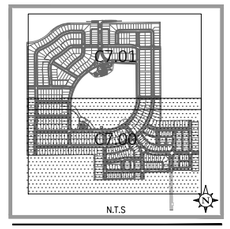
WIDTH	8.33'
TRACK	8.33'
LOCK TO LOCK TIME	6"
STEERING ANGLE	44.2°
MIN. CENTERLINE RADIUS	29.0'

MODIFIED SU AASHTO 2004 (US) NORTH AMERICA

NOTES:

1. FIRE HYDRANTS SHALL BE INSTALLED SO THAT THE DESIGN AND CALCULATIONS MEET THE REQUIREMENTS IN THE CITY OF APOPKA SUBDIVISION REGULATIONS AND THE FFPC 7TH EDITION AND NFPA
2. FIRE ACCESS SHALL BE FROM THE FRONT OF THE PROPOSED DWELLING UNITS. ALLEYS HAVE BEEN DESIGNED FOR FIRE ACCESS WHERE REQUIRED. ACCESS SHALL BE IN ACCORDANCE WITH CHAPTER 18 OF THE FFPC 7TH EDITION AND NFPA 1(2018) WITH FLORIDA AMENDMENTS.
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3.2 THE MAXIMUM DISTANCE BETWEEN FIRE HYDRANTS SHALL NOT EXCEED 500 FEET.
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5. NEEDED FIRE FLOW FOR SINGLE FAMILY DWELLINGS SHALL BE AS FOLLOWS: HOMES 5,000 S.F. OR LESS 1,000 GPM; HOMES EXCEEDING 5,000 S.F. SHALL PROVIDE FIRE FLOW IN ACCORDANCE WITH TABLE 18.4.5.2. 1OF THE FFPC 7TH EDITION AND NFPA 1(2018) WITH FLORIDA AMENDMENTS. REDUCTION OF FIRE FLOW MAY BE PERMITTED IF DWELLING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM OR SEPARATED FROM OTHER STRUCTURES BY 30 FEET BUT IN NO CASE SHALL THE FIRE FLOW BE LESS THAN 500 GPM PER 18.4.5 FFPC 7TH EDITION AND NFPA 1(2018) WITH FLORIDA AMENDMENTS.
6. DURING CONSTRUCTION, WHEN COMBUSTIBLES ARE BROUGHT ON TO THE SITE, ACCESS ROADS AND A SUITABLE TEMPORARY OR PERMANENT SUPPLY OF WATER ACCEPTABLE TO THE WIRE DEPARTMENT SHALL BE PROV I DED AN D MAINTAINED PER FFPC 7TH EDITION AND N GPA 1(2018) WITH FLORI DA AMEN DMENTS.
7. ALL PRIMARY BUILDING STRUCTURES SHALL BE LOCATED ON LOTS SUCH THAT THE FIRE DEPARTMENT ACCESS ROAD IS WITHIN 50 FT. OF AN EXTERIOR DOOR IN ACCORDANCE WITH 18.2.3.2. 1OF THE FFPC 7TH EDITION AND NFPA 1(2018) WITH FLORIDA AMENDMENTS
8. STREET DESIGN CAN ACCOMODATE LARGE TRUCKS, FIRE TRUCKS, MOVING COMPANY SEMITRUCKS WB-40 AND GARBAGE TRUCKS AND BASED ON THE CENTERLINE MINIMUM RADIUS OF 50.0'.
9. ALL ROUNDABOUTS SHALL INCORPORATE A CONCRETE MOUNTABLE APRON TO ALLOW FIRE TRUCKS TO MANEUVER THROUGH THE INTERSECTION.
10. FIRE HYDRANTS SHALL BE LOCATED 5 FEET TO 7 FEET FROM THE EDGE OF PAVEMENT TO CENTER OF HYDRANTS
11. CONTRACTOR SHALL INSTALL BLUE REFLECTIVE PAVEMENT MARKING IN THE CENTER OF THE ADJACENT TRAVEL LANE IN FRONT OF ALL FIRE HYDRANTS.

Key Map:



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DESIGNED BY:	MDS
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APPROVED BY:	MDS
SCALE IN FEET:	1" = 100'

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:
CITY of APOPKA, FL

Sheet Title:
FIRE PROTECTION PLAN

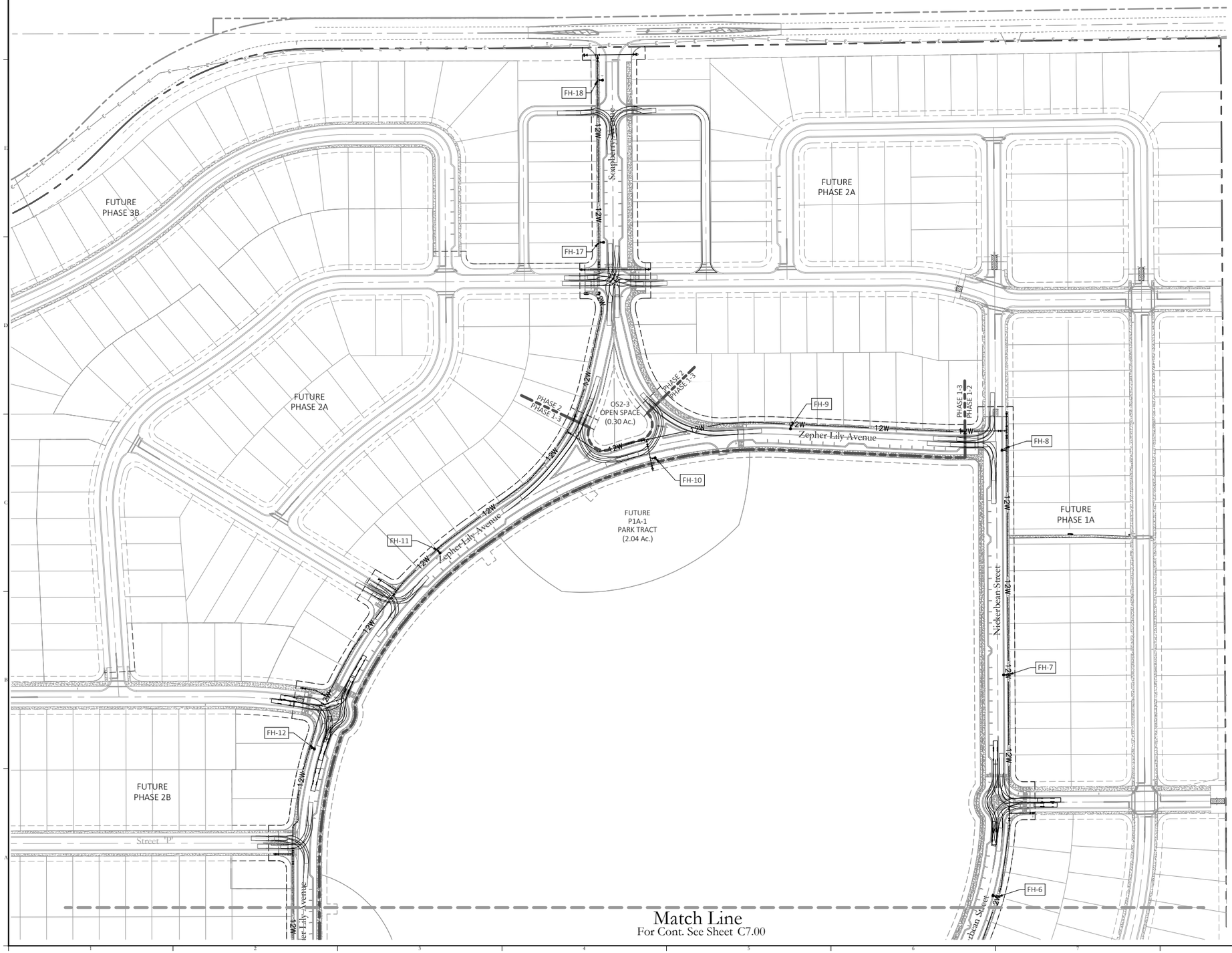
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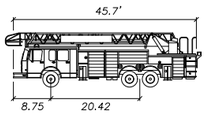
Seal:
MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER
Marc D Stehli
MARC DANIEL STEHLI
P.E. NO. 052781
DATE: August 7, 2023

POULOS & BENNETT
Poulos & Bennett, LLC
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Tel. 407.487.2594 www.poulosandbennett.com
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ROPERTIES INC
0000-00-008





FIRE TRUCK 95-PLATFORM (N.T.S.)

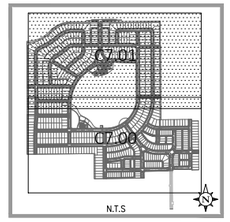
WIDTH	8.33'
TRACK	8.33'
LOCK TO LOCK TIME	6"
STEERING ANGLE	44.2°
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MODIFIED SU AASHTO 2004 (US) NORTH AMERICA

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Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

FIRE PROTECTION PLAN

Sheet No.:

C7.01

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

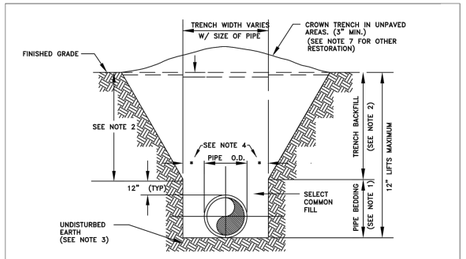
MARC DANIEL STEHLI P.E. NO. 052781

DATE: August 7, 2023

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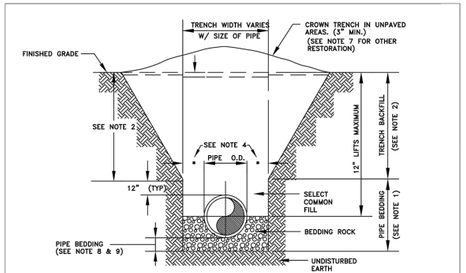


NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS TO AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETERS LESS THAN 24", AND 24" FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.
8. SURFACE RESTORATION WITHIN CITY RIGHT-OF-WAY, SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS.
9. ALL UNPAVED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINATE GRASS SPECIES.

TYPE "B" BEDDING AND OPEN-CUT DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 100



NOTES:

1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 98% UNDER PAVEMENT OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. USE OF TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING IF REQUIRED BY THE CITY. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. THE CITY SHALL DETERMINE IN THE FIELD IF REMOVAL OF UNSUITABLE MATERIAL IS REQUIRED TO REACH A SUITABLE FOUNDATION.
9. ALL UNPAVED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINATE GRASS SPECIES.
10. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY RIGHT-OF-WAY, SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS.

TYPE "A" BEDDING AND OPEN-CUT DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 101

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S). *

	PIPE SIZE										
	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	48"
90° BEND	33	43	51	60							
45° BEND	14	18	22	25							
22-1/2° BEND	7	9	11	12							
11-1/4° BEND	4	5	6	6							
TEE**	1	7	24	44							
REDUCER (ONE SIZE SMALLER)		41	39	40							
DEAD END	74	96	115	136							

* ONLY RESTRAIN BRANCH PIPE FOR TEES. ONLY RESTRAIN LARGER PIPE FOR REDUCERS
** LENGTH ALONG RUN ASSUMED TO BE 18'

NOTES:

1. FITTINGS SHALL BE DUCTILE IRON RESTRAINED JOINT TYPE. FM FITTINGS TO BE LINED WITH PROTECTO 401.
2. INSTALL FULL LENGTHS OF PIPE WITH TOTAL LENGTH CONTAINING ONLY RESTRAINED JOINTS EQUAL TO OR GREATER THAN LENGTH SHOWN IN TABLE.
3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, FOR PVC WITH THE FOLLOWING ASSUMPTIONS:
   TYPE OF PIPE: PVC
   WORKING PRESSURE: 150 P.S.I.** ** FM = 100 P.S.I. /
   SOIL DESIGNATION: SM(SAND SILT) WM OR RWM = 150 P.S.I.
   LAYING CONDITIONS: 3
6. FOR PIPE ENCASED IN POLYETHYLENE INCREASE THE GIVEN VALUE BY A FACTOR OF 1.5.
7. VALUES NOT LISTED IN THE TABLE TO BE COMPLETED BY THE ENGINEER.

RESTRAINED PIPE TABLE (PVC)

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 105

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S). *

	PIPE SIZE										
	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	48"
90° BEND					61	67	73	84	100	114	
45° BEND					26	28	31	35	42	48	
22-1/2° BEND					13	14	15	17	20	23	
11-1/4° BEND					6	7	8	9	10	12	
TEE**					52	62	74	95	124	152	
REDUCER (ONE SIZE SMALLER)					48	25	25	47	66	66	
DEAD END					111	123	135	157	188	218	

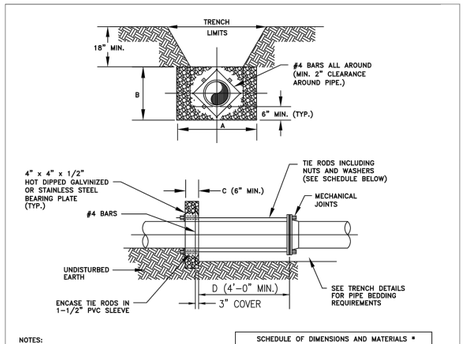
* ONLY RESTRAIN BRANCH PIPE FOR TEES. ONLY RESTRAIN LARGER PIPE FOR REDUCERS
** LENGTH ALONG RUN ASSUMED TO BE 18'

NOTES:

1. FITTINGS SHALL BE RESTRAINED JOINT TYPE. FM FITTINGS TO BE LINED WITH PROTECTO 401.
2. INSTALL FULL LENGTHS OF PIPE WITH TOTAL LENGTH CONTAINING ONLY RESTRAINED JOINTS EQUAL TO OR GREATER THAN LENGTH SHOWN IN TABLE.
3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
4. IN LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED.
5. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
   TYPE OF PIPE:
   WORKING PRESSURE: 150 P.S.I.** ** FM = 100 P.S.I. /
   SOIL DESIGNATION: SM(SAND SILT) WM OR RWM = 150 P.S.I.
   LAYING CONDITIONS: 3
6. VALUES NOT LISTED IN THE TABLE TO BE COMPLETED BY THE ENGINEER.

RESTRAINED PIPE TABLE (DI)

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JAUARY 2014	FIG. 106



NOTES:

1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 2500 P.S.I.
3. BEDDING, BACKFILL, AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
6. DESIGN PRESSURE: 150 P.S.I.

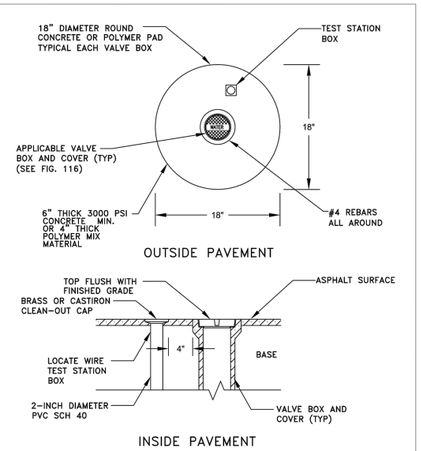
SCHEDULE OF DIMENSIONS AND MATERIALS *

PIPE SIZE (INCHES)	DIMENSIONS (FT.) A	B	C	D	TIE RODS REQ'D DIA.	NO.
6	2.0	2.0	1.0		3/4	2
8	2.5	2.5	1.0		3/4	2
10	3.5	3.0	1.0		3/4	4
12	5.0	3.0	1.0		3/4	4
16	6.0	4.0	1.5		3/4	4
20	8.0	5.0	1.5		3/4	6
24	9.0	6.0	1.5		3/4	8

NOTE: THRUST BLOCK AREAS TO BE COMPUTED ON BASIS OF ____0,000____ LBS. PER SQ. FT. SOIL RESTRAINT BEARING. (1,500 MIN) SEE NOTE 5
* TO BE COMPLETED BY ENGINEER.

WATER MAIN THRUST COLLAR DETAIL

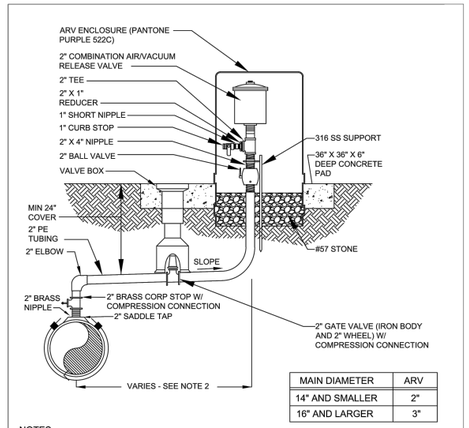
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 107



VALVE IDENTIFICATION TAG
TO BE INSTALLED BY CITY
& PAID FOR BY DEVELOPER

VALVE BOX

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 109

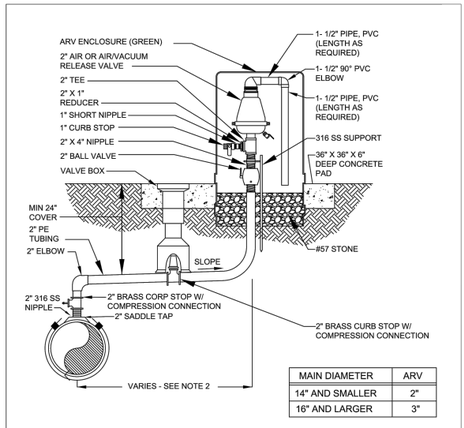


MAIN DIAMETER	ARV
14" AND SMALLER	2"
16" AND LARGER	3"

NOTES:
1. FOR RECLAIMED WATER USE ONLY.
2. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE R/W LINE AS POSSIBLE
3. ADJUST HORIZONTAL LOCATION OF SIDEWALK, AS REQUIRED TO AVOID ARV ENCLOSURE.
4. LOCATE ARV ENCLOSURE WITHIN 6" OF R/W LINE.
5. ASSEMBLY PIPE, FITTINGS, AND APPURTENANCES TO MATCH ARV SIZE..

OFFSET COMBINATION AIR/VACUUM RELEASE VALVE DETAIL - RECLAIMED WATER ONLY

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 113



MAIN DIAMETER	ARV
14" AND SMALLER	2"
16" AND LARGER	3"

NOTES:
1. FOR WASTEWATER USE ONLY.
2. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE R/W LINE AS POSSIBLE
3. ADJUST HORIZONTAL LOCATION OF SIDEWALK, AS REQUIRED TO AVOID ARV ENCLSOURE.
4. LOCATE ARV ENCLOSURE WITHIN 6" OF R/W LINE.

OFFSET AIR OR COMBINATION AIR/VACUUM RELEASE VALVE DETAIL - WASTEWATER ONLY

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 114

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N.T.S.

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

APOPKA CONSTRUCTION DETAILS

Sheet No.:

C9.10

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA

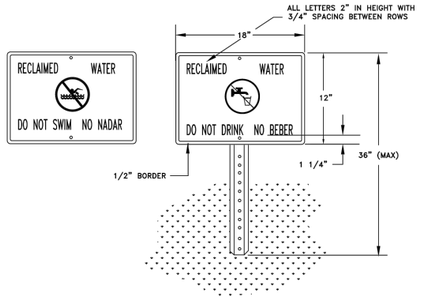
Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT

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Eng. Bus. No. 28567

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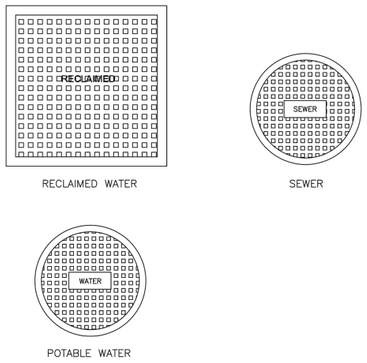


NOTES:

1. HEIGHT OF SIGN WILL DEPEND ON LOCATION AND SURROUNDING LANDSCAPE PLANT TYPES. IN ALL CASES, THE SIGN SHALL BE VISIBLE TO THE PUBLIC.
2. BACKGROUND SHALL BE WHITE. LETTERS AND FIGURES SHALL BE BLACK. PROHIBITIVE SYMBOL SHALL BE RED.
3. ENGINEERING GRADE REFLECTIVE MATERIALS SHALL BE USED.
4. POST SHALL BE U CHANNEL 12 FT. 2 LB. HOT ROLLED HIGH TENSILE RAIL OR BILLET STEEL, HOT DIP GALVANIZED PER ASTM A-123.
5. MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
6. SIGNS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY APPROVED ENGINEERING PLANS AND/OR AS APPROVED BY PUBLIC SERVICES DEPARTMENT.

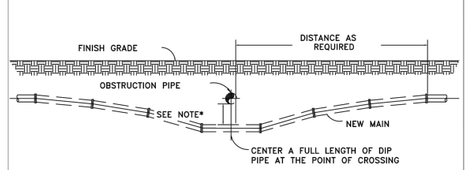
RECLAIMED WATER ADVISORY SIGN

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 115



TYPICAL VALVE BOX COVER DETAILS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 116



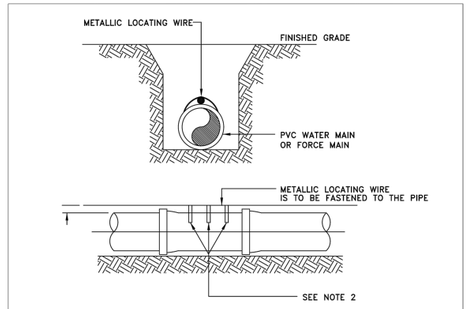
NOTES:

1. 18" MINIMUM CLEARANCE FOR WATER, SEWER AND RECLAIMED WATER MAIN CROSSINGS
2. 12" MINIMUM CLEARANCE REQUIRED FOR OTHER TYPE UTILITY CROSSINGS.
3. SEE ENCASEMENT DETAIL IF MINIMUM CLEARANCE CANNOT BE OBTAINED.

* CONSTRUCT UNIFORM PIPE DEFLECTION NOT TO EXCEED 75% OF MANUFACTURER RECOMMENDED MAXIMUM DEFLECTION PER PIPE JOINT

UTILITY CROSSING PIPE DEFLECTION DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 117

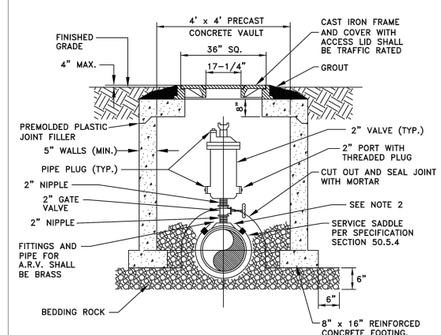


NOTES:

1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 AWG-SOLID CCS REINFORCED TRACER WIRE-INSULATED 30 MIL HDPE - 30 VOLT MFG. BY COPPERHEAD INDUSTRIES, LLC OR EQUAL) CAPABLE OF DETECTION BY A CABLE LOCATOR.
2. SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND ATTACHED WITH DUCT TAPE OR NYLON STRAPS AT 3 LOCATIONS PER JOINT. LOCATING WIRE SHALL TERMINATE AT THE TEST STATION BOX AS SHOWN IN FIG. 109.
3. BE CAPABLE OF EXTENDING 12" ABOVE TOP OF TEST STATION BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
4. SPLICES SHOULD BE MADE USING STANDARDS AND PRODUCTS DESIGNED FOR DIRECT BURIAL CONDUCTORS.
5. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED.

PVC PIPE LOCATING WIRE DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 118

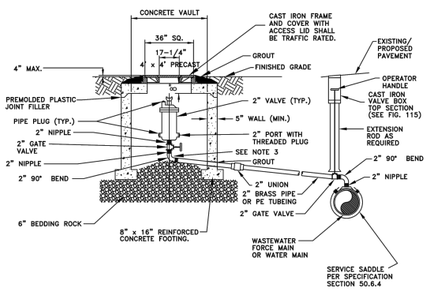


NOTES:

1. ABOVE DETAIL IS BASED ON 2 INCH COMBINATION AIR/VACUUM RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES TO BE DETERMINED BY THE ENGINEER AND APPROVED BY THE CITY PRIOR TO INSTALLATION.
2. THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.
3. ALL STRUCTURES TO BE TRAFFIC BEARING RATED.

AIR OR COMBINATION AIR/VACUUM RELEASE VALVE DETAIL - UNDERGROUND

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 119

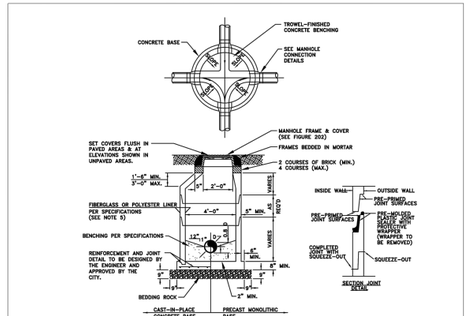


NOTES:

1. ABOVE DETAIL IS BASED ON 2 INCH COMBINATION AIR/VACUUM RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES TO BE DETERMINED BY THE ENGINEER AND APPROVED BY THE CITY PRIOR TO INSTALLATION.
2. THE MINIMUM DIMENSION FROM ELBOW INVERT TO FINISHED GRADE SHALL BE 4.0 FEET.
3. THE AIR RELEASE VALVE SHALL BE ADEQUATELY SUPPORTED.
4. ALL FITTINGS ARE TO BE BRASS.

OFFSET AIR OR COMBINATION AIR/VACUUM RELEASE VALVE DETAIL - UNDERGROUND

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 120



FORCE MAIN MANHOLE LINER*

DIAMETER (INCHES)	THICKNESS (INCHES) HEIGHT (FEET) 3-6	7-12	13-17	MATERIAL	MANUFACTURER
48					
60					
72					

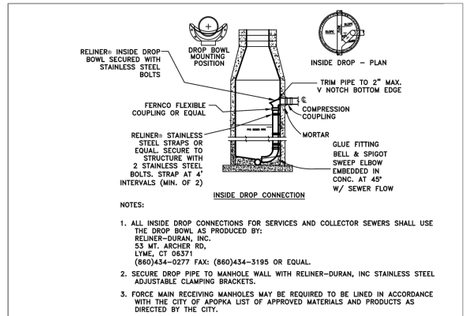
* TO BE COMPLETED BY THE ENGINEER

NOTES:

1. MANHOLE SHOWN IS FOR SEWER SIZE 8" THRU 24". SEE SECTION 20.4 OF THE MANUAL FOR MANHOLE DIAMETER FOR SEWERS LARGER THAN 24".
2. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE CONNECTION DETAILS.
3. THE THICKNESS OF THE LINER SHALL BE 3/8" MINIMUM.
4. EACH BENCH WALL SHALL BE A MINIMUM OF 18 INCHES LONG FROM THE WALL OF THE MANHOLE TOWARD THE CENTER.
5. SANITARY SEWER MANHOLES MAY BE REQUIRED TO BE LINED IN ACCORDANCE WITH THE CITY OF APOPKA LIST OF APPROVED MATERIALS AND PRODUCTS AS DIRECTED BY THE CITY.

TYPICAL MANHOLE

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 200



NOTES:

1. ALL INSIDE DROP CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP BOWL AS PRODUCED BY: RELINER-DURAN, INC. 53 MT. ARCHER RD, LYME, CT 06371 (860)434-0277 FAX: (860)434-3195 OR EQUAL.
2. SECURE DROP PIPE TO MANHOLE WALL WITH RELINER-DURAN, INC STAINLESS STEEL ADJUSTABLE CLAMPING BRACKETS.
3. FORCE MAIN RECEIVING MANHOLES MAY BE REQUIRED TO BE LINED IN ACCORDANCE WITH THE CITY OF APOPKA LIST OF APPROVED MATERIALS AND PRODUCTS AS DIRECTED BY THE CITY.

NOTES:

1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. THE CITY MAY APPROVE ALTERNATE WATERTIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.
3. AN INSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 24" OR MORE ABOVE THE OUTFLOW PIPE INVERT.
4. CONCRETE TO BE MINIMUM OF 3000 PSI.

MANHOLE CONNECTION DETAILS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 201

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N.T.S.

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

APOPKA CONSTRUCTION DETAILS

Sheet No.:

C9.11

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA

Marc D Stehli

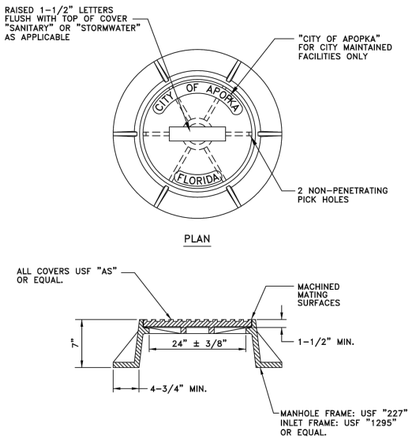
MARC DANIEL STEHLI P.E. NO. 0052781

DATE: August 7, 2023

POULOS & BENNETT

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Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

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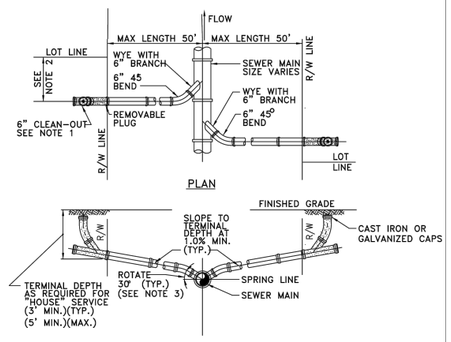


NOTES:

1. MANHOLE FRAME AND COVER ARE TO BE TRAFIC BEARING RATED H-20, CLASS 30 MEETING ASTM A 48.

STANDARD MANHOLE FRAME AND COVER

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 202

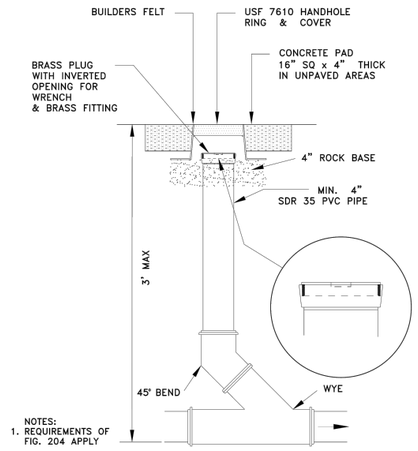


NOTES:

1. CLEAN-OUT (SHOWN SHADED) SHALL BE INSTALLED BY THE BUILDER IN ACCORDANCE WITH STANDARD PLUMBING CODE.
2. LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE.
3. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
4. RESIDENTIAL SERVICES SHALL BE 4 INCHES & NON-RESIDENTIAL SERVICES SHALL BE 6 INCHES IN DIAMETER AS A MINIMUM.
5. GALVANIZED, OR CAST IRON CLEAN-OUT CAP SHALL BE USED ON THE STUBOUT FOR EACH SERVICE.
6. LATERAL SHALL BE MARKED WITH AN "S" STAMPED OR CUT IN THE CURB.

SERVICE LATERAL DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	MAY 2022	FIG. 204

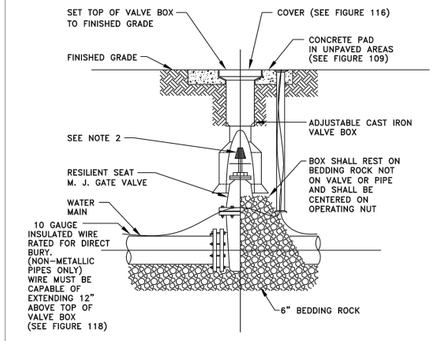


NOTES:
1. REQUIREMENTS OF FIG. 204 APPLY

SANITARY SEWER SERVICE TRAFFIC RATED CLEAN-OUT DETAIL

NTS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 205

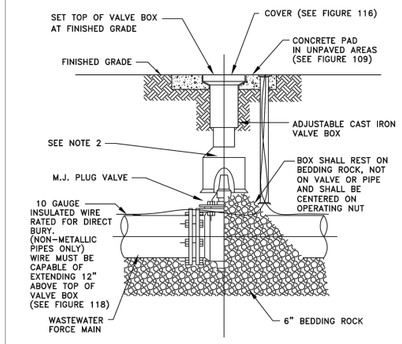


NOTES:

1. PVC EXTENSIONS MAY BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO WITHIN A 3 FEET BELOW FINISHED GRADE.

GATE VALVE AND BOX DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 400

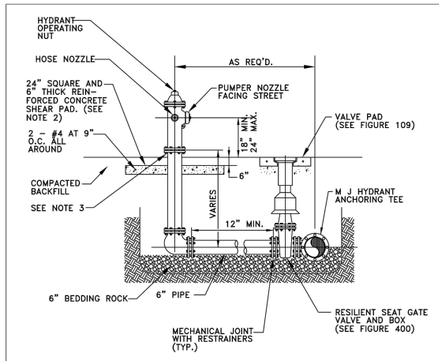


NOTES:

1. PVC EXTENSIONS MAY BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO WITHIN 3 FEET BELOW FINISHED GRADE.

PLUG VALVE AND BOX DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 400 A

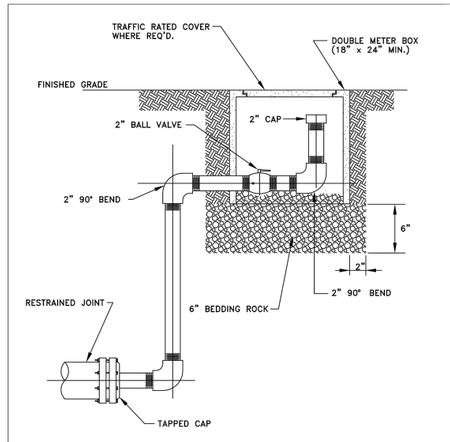


NOTES:

1. FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.
2. THE SHEAR PAD SHALL BE RECESSED SIX (6) INCHES BELOW THE FINISHED GRADE AND THE RECESSED SECTION SODDED.
3. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A TWELVE (12) INCH MINIMUM.
4. FIRE HYDRANTS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE CITY OF APOPKA UTILITIES DESIGN CONSTRUCTION STANDARDS MANUAL.

FIRE HYDRANT ASSEMBLY DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 402

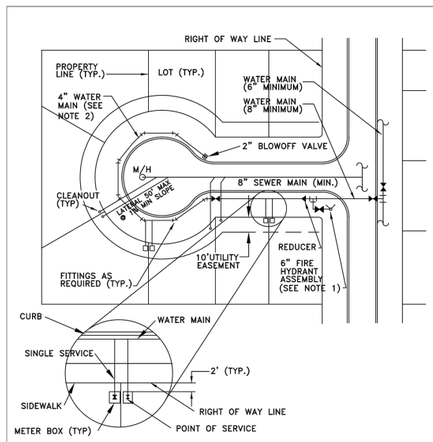


NOTES:

1. ALL 2 INCH PIPE AND FITTINGS SHALL BE SCHEDULE 40 GALVANIZED STEEL OR BRASS WITH THREADED (NPT) JOINTS. USE TEFLON TAPE ON JOINTS.
2. COLOR SHALL BE APPROPRIATE FOR USE.

BLOWOFF VALVE DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 403



NOTES:

1. ANCHORING TYPE 90° BEND SHALL ONLY BE USED WHERE RIGHT-OF-WAY CONSTRUCTION WILL NOT ALLOW INSTALLATION OF A STRAIGHT ASSEMBLY.
2. POTABLE WATER MAINS SHALL BE MINIMUM 4" FOR THE LAST 500' OF A CUL-DE SAC NOT SERVING A HYDRANT.

TYPICAL SERVICE LOCATION DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	MAY 2022	FIG. 404

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N.T.S.

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

APOPKA CONSTRUCTION DETAILS

Sheet No.:

C9.12

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

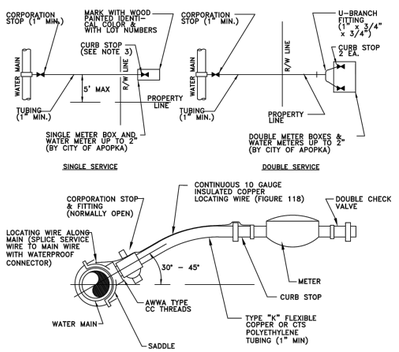
Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

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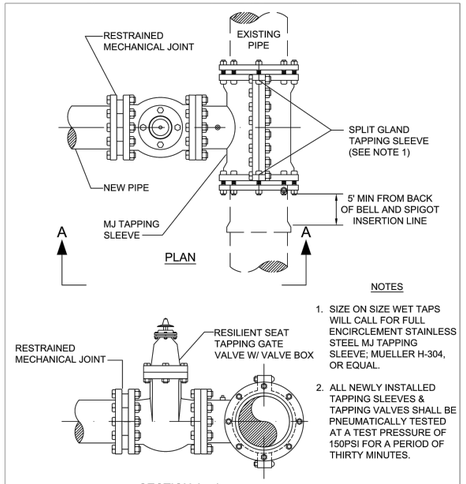


NOTES:

1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.
2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
3. EACH SERVICE SHALL TERMINATE AT A CURB STOP(S) WHICH SHALL BE BURIED APPROXIMATELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2" x 2" x 18" STAKE WITH THE TOP PAINTED BLUE FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER, AND MARKED WITH THE NUMBER OF THE LOT(S) TO BE SERVED.
4. RECLAIMED WATER SERVICES SHALL USE PURPLE COLORED CTS POLYETHYLENE TUBING.
5. POTABLE WATER SERVICES SHALL USE BLUE COLORED CTS POLYETHYLENE TUBING.
6. ALL SERVICE UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE INSTALLED IN A MINIMUM 2" PVC SLEEVE.

WATER SERVICE CONNECTION DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 405

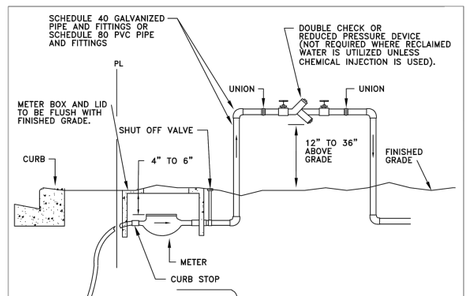


NOTES

1. SIZE ON SIZE WET TAPS WILL CALL FOR FULL ENCIRCLEMENT STAINLESS STEEL MJ TAPPING SLEEVE; MUELLER H-304, OR EQUAL.
2. ALL NEWLY INSTALLED TAPPING SLEEVES & TAPPING VALVES SHALL BE PNEUMATICALLY TESTED AT A TEST PRESSURE OF 150PSI FOR A PERIOD OF THIRTY MINUTES.

WATER AND RECLAIMED WATER MAINS WET TAP TIE-IN DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 406

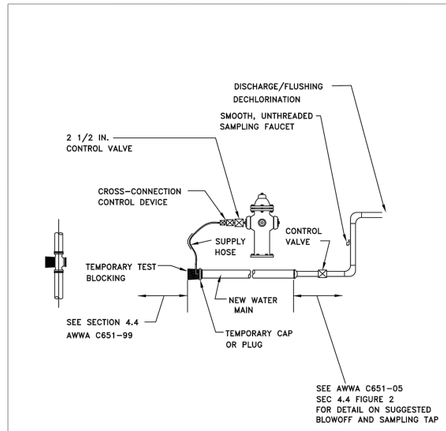


NOTES:

1. A POSITIVE DIELECTRIC CONNECTION SHALL BE MADE BETWEEN ALL GALVANIZED AND BRASS COMPONENTS.
2. METER SHALL BE INSTALLED JUST INSIDE THE ROW LINE OR PROPERTY LINE AND IN NO CASE SHALL IT BE INSTALLED IN THE SIDEWALK OR OTHER PAVED AREAS.
3. DOUBLE CHECK VALVES MAY BE USED AS LONG AS THEIR ARE NO CHEMICALS OR A WELL ON SITE.
4. A PVB DEVICE SHALL BE 12-INCHES MINIMUM ABOVE HIGHEST OUTLET OR SPRAYHEAD
5. ALL BACKFLOW PREVENTION DEVICES ARE TO BE AWWA APPROVED.

IRRIGATION METER AND DOUBLE CHECK VALVE OR REDUCED PRESSURE BACKFLOW PREVENTER

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 502



NOTE:

1. SEE FIGURE 504C FOR PROCEDURES.

TEMPORARY JUMPER CONNECTION FROM FIRE HYDRANT

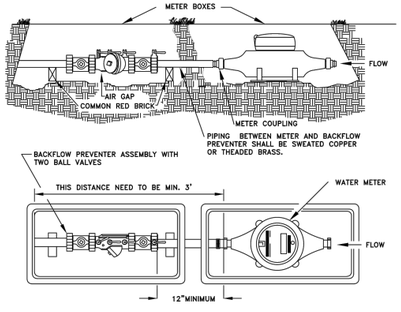
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 504 B

TEMPORARY JUMPER CONNECTION NOTES:

1. A temporary jumper connection is required at all connections between existing active water mains and proposed new water main improvements.
2. Figures 504 A and 504 B to be used for filling any new water main of any size from existing active water mains and for flushing of new mains up to 8 inches in diameter (2.5 FPS minimum velocity) and for pulling bacteriological samples from any new water main of any size. The jumper connection shall be maintained until after filling, flushing testing and disinfection of the new main has been successfully completed and cleared for use from the Florida Department of Environmental Protection (FDEP) and other pertinent agencies have been received. The jumper connection shall also be used to maintain a minimum pressure of 20 psi in the new mains after disinfection and until the FDEP clearance letter is obtained. Thrust blocking and/or restraints shall be provided temporarily, as required. Pipe and fittings used for connecting the new pipe to the existing pipe shall be disinfected prior to installation in accordance with AWWA C651, 2005 edition. The tapping sleeve and the exterior of the main to be tapped shall be disinfected by spraying or swabbing per section II of AWWA C651-05.
3. Flushing of 10 inches in diameter and larger water mains may be done through the tie-in valve under very controlled conditions. The following procedures shall be followed:
   A. The tie-in valves shall be operated and pressure tested in the presence of the City engineer to verify water tightness prior to tie-in. Valves which are not water tight shall be replaced with a new valve installed immediately adjacent to the leaking valve.
   B. The temporary jumper connection shall be constructed as detailed. The jumper connection shall be used to fill the new water main and for providing water for bacteriological sampling of the new main as required by the FDEP permit.
   * Flushing shall not be attempted during peak demand hours of the existing water mains.
   * All downstream valves in the system must be open prior to opening the tie-in valve.
   * Provide for and monitor the pressure in the tie-in point. The pressure in the existing main must not drop below 35 psi.
   * The tie-in valve shall be opened a few turns only, ensuring a pressure drop across the valve is greater than 10 psi.
   C. The tie-in valve shall be locked closed by the City personel until flushing begins.
   D. The tie-in valve shall be opened only for flushing of the new main. The procedure shall be directed by the City and observed by the engineer.
   E. After flushing, the tie-in valve shall be closed and locked in the closed position by the City personel.
4. The contractor shall provide documentation demonstrating that the double check backflow prevention device has been tested and is in good working order at the time of installation.
5. Except as required to flush lines of greater than 8 inches in diameter, the tie-in valve shall remain closed and shall be locked in the closed position by the City. The tie-in valve shall remain locked closed until the new system has been cleared for use by FDEP and all other pertinent agencies.
6. Upon receipt of clearance for use from FDEP and all other pertinent agencies, the contractor shall remove the temporary jumper connection. The corporation stops are to be closed and plugged with 2 inch brass plugs.
7. All installation and maintenance of the temporary jumper connection and associated backflow prevention device, fittings, valve, etc. shall be the responsibility of the contractor.

PROCEDURES FOR TEMPORARY JUMPER CONNECTION

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 504 C



1. A 3' PIECE OF STRAIGHT PIPE MUST BE CONNECTED TO METER USING THE DESIGNATED HOLES IN THE METER BOX BEFORE ANY ANGLES ARE CONNECTED. THE SAME RULES APPLY FOR DOUBLE METER HOOK-UPS.
2. BACKFLOW DEVICE AND METER ARE TO BE SET BY THE CITY FOR METERS 2-INCH OR LESS IN SIZE.

POTABLE WATER SERVICE DETAIL FOR LOTS SERVED WITH RECLAIMED WATER

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 505

Key Map:

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1	03/02/2023	SUBMIT TO SJRWMD
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SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
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SCALE IN FEET:	N.T.S.

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

APOPKA CONSTRUCTION DETAILS

Sheet No.:

C9.13

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA REGISTERED ENGINEER

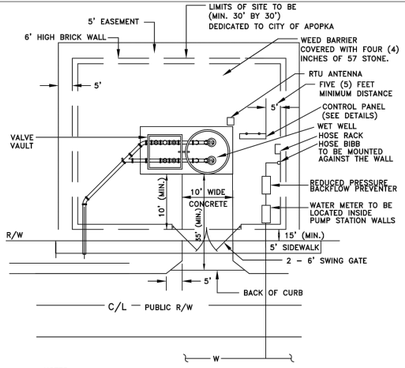
Marc D Stehli

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P.E. NO. 052781
DATE: August 7, 2023

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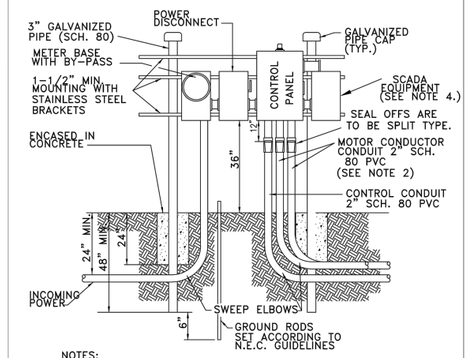


NOTES:

1. DRIVEWAY AND APRON SHALL BE SIX (6) INCH THICK, 3000 P.S.I. CONCRETE. WITH No.6X6 WIRE MESH OR FIBER MESH.
2. POWER TO THE PUMP STATION SHALL BE THROUGH UNDERGROUND CONDUIT FROM SUPPLY SOURCE IN RIGHT-OF-WAY.
3. GATE TO BE DECORATIVE BLACK POWDER COATED ALUMINUM W/PICKET SPACING = OR < 4"
4. WALLS ARE TO BE BRICK OR DECORATIVE STONE.
5. WET WELL LID MUST OPEN TOWARD CONTROL PANEL (HINGE SIDE TOWARD PANEL).
6. LIFT STATION WALL TO BE PLACED AT LEAST 15FT. BEHIND THE R/W LINE.

PUMP STATION TYPICAL SITE PLAN

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 300

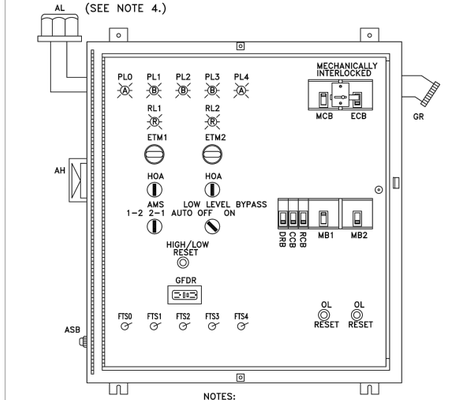


NOTES:

1. DRAWING IS SHOWN FOR 230 VOLT POWER SUPPLY. THE LOCATION OF METER AND MAIN POWER DISCONNECT SHALL BE REVERSED FOR 480 VOLT SUPPLY.
2. WHEN TWO (2) SEPARATE CONDUCTOR-TYPE MOTORS ARE USED, CONDUIT SHALL BE INCREASED TO THREE (3) INCH.
3. POWER SUPPLY SHALL BE UNDERGROUND TO THE PUMP STATION AND SHALL BE THREE (3) PHASE FROM A THREE (3) PHASE SOURCE ONLY.
4. STUB OUT UNISTRUT LONG ENOUGH TO ACCOMODATE A 24"x24" SCADA EQUIPMENT CABINET. CITY TO INSTALL SCADA EQUIPMENT CABINET.

DUPLEX PUMP STATION CONTROL PANEL INSTALLATION DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 302

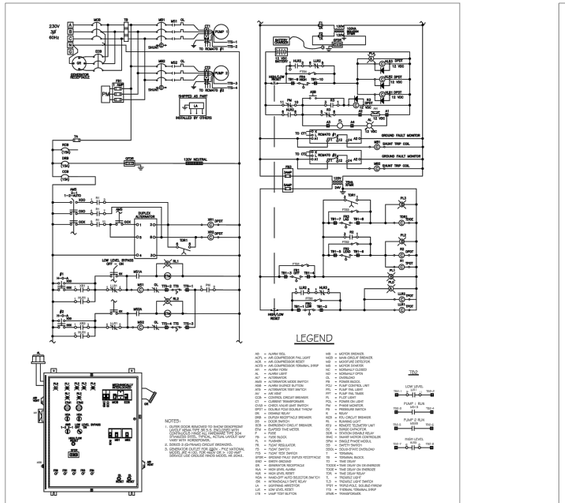


NOTES:

1. OUTER DOOR REMOVED TO SHOW DEADFRONT LAYOUT NEMA TYPE 3R 304 S.S. ENCL. WITH CONTINUOUS HINGE ALL HARDWARE STAINLESS STEEL TYPICAL, ACTUAL LAYOUT MAY VARY WITH HORSEPOWER
2. SERIES 3 (Q-FRAME) CIRCUIT BREAKERS
3. GENERATOR OUTLET FOR 230V - PYLE NATIONAL MODEL JRE4100/460V - CROUSE HINDS MODEL AR 2042.
4. THE HEIGHT OF THE ALARM LIGHT WILL NEED TO BE MADE VISIBLE FROM OUTSIDE THE LIFT STATION.

DUPLEX PUMP STATION CONTROL PANEL FRONT LAYOUT

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 303



DUPLEX PUMP CONTROL PANEL GENERAL LAYOUT & SCHEMATIC

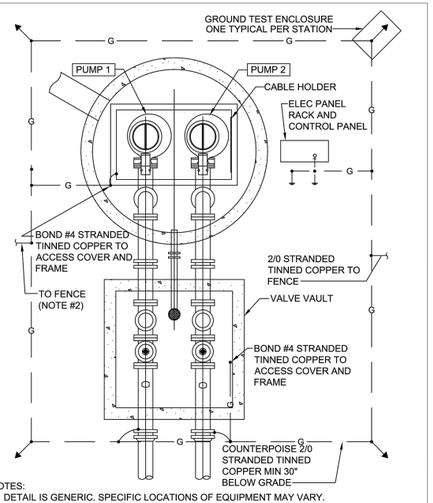
(230V-3PH)
WITH GENERATOR RECEPTACLE

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 305 A

AB	- ALARM BELL	MB	- MOTOR BREAKER
ACFL	- AIR COMPRESSOR FAIL LIGHT	MCB	- MAIN CIRCUIT BREAKER
ACR	- AIR COMPRESSOR RESET	MD	- MOISTURE DETECTOR
ACTS	- AIR COMPRESSOR TERMINAL STRIP	MS	- MOTOR STARTER
AH	- ALARM HORN	NC	- NORMALLY CLOSED
AL	- ALARM LIGHT	NO	- NORMALLY OPEN
ALT	- ALTERNATOR	OL	- OVERLOAD
AMS	- ALTERNATOR MODE SWITCH	PB	- POWER BLOCK
ASB	- ALARM SILENCE BUTTON	PCU	- PUMP CONTROL UNIT
ATS	- ALTERNATOR TEST SWITCH	PFL	- PUMP FAIL LIGHT
AV	- AIR VENT	PFT	- PUMP FAIL TIMER
CCB	- CONTROL CIRCUIT BREAKER	PL	- PILOT LIGHT
CT	- CURRENT TRANSFORMER	POL	- POWER ON LIGHT
CVLS	- CHECK VALVE LIMIT SWITCH	PM	- PHASE MONITOR
DPDT	- DOUBLE-POLE, DOUBLE-THROW	PS	- PRESSURE SWITCH
DR	- DISABLE RELAY	R	- RELAY
DRB	- DUPLEX RECEPTACLE BREAKER	RCB	- RTU CIRCUIT BREAKER
DS	- DOOR SWITCH	RL	- RUNNING LIGHT
ECB	- EMERGENCY CIRCUIT BREAKER	RTU	- REMOTE TELEMETRY UNIT
ETM	- ELAPSED TIME METER	SC	- SURGE CAPACITOR
F	- FUSE	SDR	- STATION DISABLE RELAY
FB	- FUSE BLOCK	SMC	- SMART MOTOR CONTROLLER
FL	- FLASHER	SPM	- SINGLE PHASE MODULE
FR	- FLOAT REGULATOR	SS	- SAFETY SWITCH
FS	- FLOW SWITCH	SSOL	- SOLID-STATE OVERLOAD
FTS	- FLOAT TEST SWITCH	T	- TERMINAL
GFDR	- GROUND FAULT DUPLEX RECEPTACLE	TB	- TERMINAL BLOCK
GND	- EARTH GROUND	TD	- TIME DELAY
GR	- GENERATOR RECEPTACLE	TDODE	- TIME DELAY ON DE-ENERGIZE
HLA	- HIGH LEVEL ALARM	TDOE	- TIME DELAY ON ENERGIZE
HLR	- HIGH LEVEL RESET	TDR	- TIME DELAY RELAY
HOA	- HAND-OFF-AUTO SELECTOR SWITCH	TL	- TROUBLE LIGHT
ISR	- INTRINSICALLY SAFE RELAY	TLS	- TROUBLE LIGHT SWITCH
LA	- LIGHTNING ARRESTOR	TPDT	- TRIPLE-POLE, DOUBLE-THROW
LLR	- LOW LEVEL RESET	TTS	- THERMAL TERMINAL STRIP
LTB	- LAMP TEST BUTTON	XFMR	- TRANSFORMER

COMPONENT LEGEND

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 306

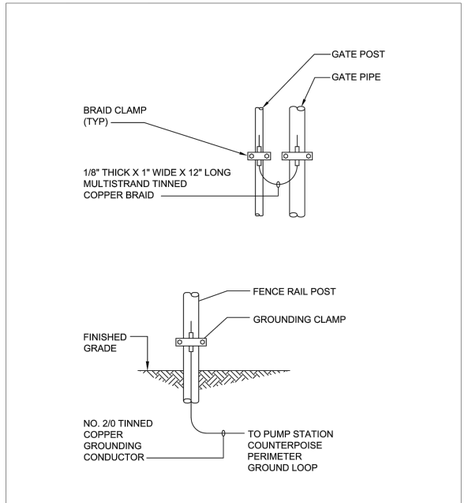


NOTES:

1. DETAIL IS GENERIC. SPECIFIC LOCATIONS OF EQUIPMENT MAY VARY.
2. TIE TO FENCE. MINIMUM 2 LOCATIONS. NOT REQUIRED WHERE PVC COATED OR BLOCK FENCE IS INSTALLED.
3. PROVIDE EXOTHERMIC WELDS UNLESS NOTED OTHERWISE.

PUMP STATION GROUNDING (TYPICAL)

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 307



FENCE POST GROUNDING (TYPICAL)

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 307 A

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
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SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
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DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N.T.S.

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

LIFT STATION DETAILS

Sheet No.:

C9.20

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA

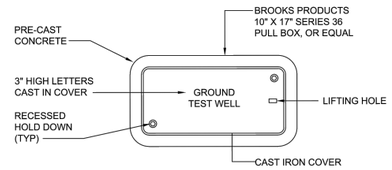
Marc D Stehli

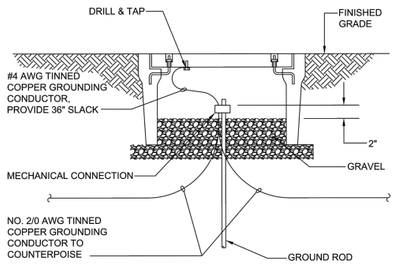
MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

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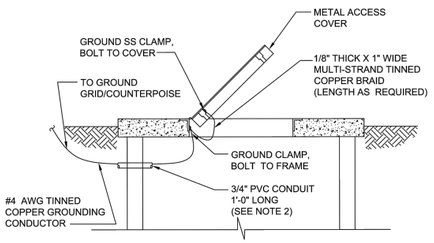
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GROUND TEST WELL

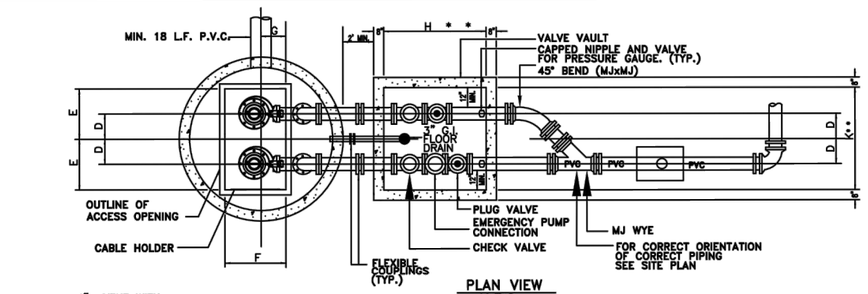
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 307 B



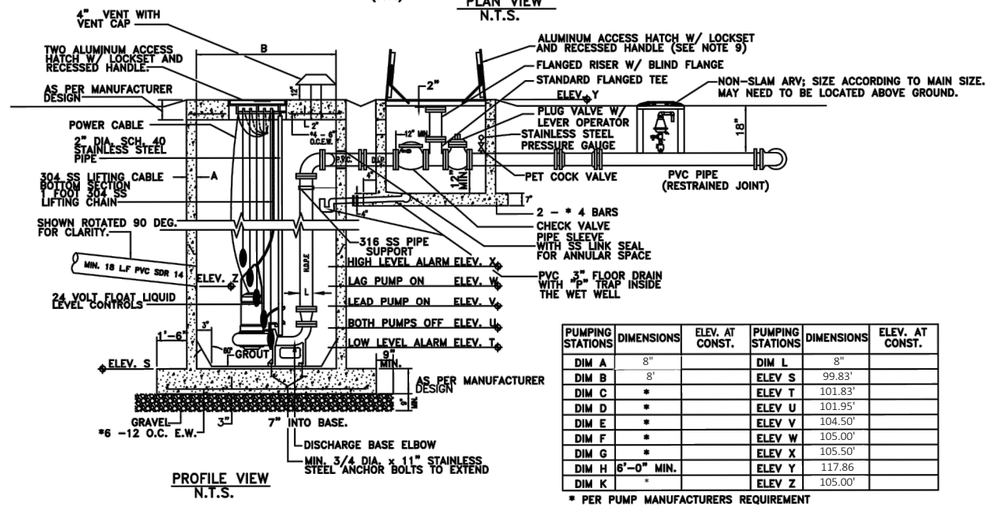
NOTES:
1. ON COVERS WITH MULTIPLE DOORS, PROVIDE BRAID FROM FRAME TO DOOR ON EACH DOOR. PROVIDE WATERPROOF CAULKING WHERE GROUND CABLE AND CONDUIT PENETRATES WETWELL TO PREVENT INTRUSION OF GROUNDWATER AND ESCAPE OF VAPORS FROM WETWELL.
2. INSTALL GROUND WIRE SO THAT IT WILL NOT CROSS CLEAR OPENING OR PREVENT OR IMPEDE NORMAL METHOD OF REMOVING FLOATS OR PUMPS.

COVER AND DOOR GROUNDING

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 307 C



PLAN VIEW
N.T.S.



PROFILE VIEW
N.T.S.

PUMPING STATIONS	DIMENSIONS	ELEV. AT CONST.	PUMPING STATIONS	DIMENSIONS	ELEV. AT CONST.
DIM A	8"		DIM L	8"	
DIM B	8'		ELEV S	99.83'	
DIM C	*		ELEV T	101.83'	
DIM D	*		ELEV U	101.95'	
DIM E	*		ELEV V	104.50'	
DIM F	*		ELEV W	105.00'	
DIM G	*		ELEV X	105.50'	
DIM H	6'-0" MIN.		ELEV Y	117.86	
DIM K	*		ELEV Z	105.00'	

* PER PUMP MANUFACTURERS REQUIREMENT

GENERAL NOTES:
1. VALVE VAULT AND WET WELL LIDS SHALL BE COATED WITH 1 COAT OF TNEMEC SERIES 66, COLOR EN03, (2–3 MILS), FOLLOWED BY TOP COAT OF TNEMEC SERIES 73, COLOR EN05, (2–3 MILS) OR EQUAL.
2.A THE WET WELL SHALL BE CONSTRUCTED OF FIBERGLASS REINFORCED POLYESTER (RFP) AND MANUFACTURED FROM COMMERCIAL GRADE POLYESTER RESIN OR VINYL ESTER RESIN, WITH FIBERGLASS REINFORCEMENTS. THE WET WELL SHALL BE A ONE PIECE UNIT AND MANUFACTURED BY L.F. MANUFACTURE, INC. OR EQUAL.
2.B IN LIEU OF RFP THE WET WELL MAY BE CONSTRUCTED OF PRECAST CONCRETE HAVING A MINIMUM WALL THICKNESS OF 8 INCHES. THE INTERIOR WALLS SHALL BE LINED USING A HIGH DENSITY POLYETHYLENE PRODUCT AS MANUFACTURED BY AGRU SURE GRIP, OR EQUAL.
3. PIPING IN THE WET WELL TO BE HDPE WITH FUSED 45 DEGREES FITTINGS FROM WET WELL TO VALVE VAULT.
4. INTERIOR OF THE VALVE VAULT AND PIPING IN THE VALVE VAULT WITH ConSeal CS–55 (OR EQUAL), TWO COATS, 4 MILS EACH. PIPING SHALL BE COATED AFTER INSTALLATION.
5. VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE SPINDLES WITH MINIMUM CLEARANCES AS SHOWN FOR 6" DIAMETER PIPE AND SMALLER. CLEARANCES SHALL INCREASE AS REQUIRED FOR LARGER PIPE SIZES.
6. VALVE VAULT SHALL HAVE SEALED FLOOR AND DRAIN.
7. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE AND STAINLESS STEEL LINK SEAL.
8. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
9. WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE LOCK BRACKET. SIZE AS REQUIRED BY PUMP MANUFACTURER AND APPROVED BY THE CITY.
10. FLEXIBLE COUPLING SHALL BE SLEEVE TYPE, EPOXY COATED.
11. PUMPS SHALL BE: MANUFACTURER: FLYGT ; MODEL: NP 3202 HT3 ; DIA: 316 MM ; SPEED: 1775 RPM ; DISCHARGE SIZE: 4 IN.; VOLTAGE: 460 ; HZ.: 60 ; PHASE: 3 ; H.P.: 45 ; MIN. SOLID SIZE: 3 IN.
12. OPERATING CONDITIONS SHALL BE 306.59 GPM AT 116.13 FEET TDH.
13. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE 316 STAINLESS STEEL. 4
14. "P" TRAP TO BE INSTALLED IN WET WELL.
15. ALL PUBLIC LIFT STATIONS SHALL BE EQUIPPED WITH SCADA SYSTEM.THE DEVELOPER SHALL PAY THE CITY COST OF THE UNIT.THE CITY WILL BE RESPONSIBLE FOR INSTALLATION.
16. ALL LIFT STATIONS SHALL BE FENCED WITH DECORATIVE STONE OR BRICK OR AS DIRECTED BY THE CITY.
17. ALL LIFT STATIONS SHALL HAVE A 10 FEET WIDE CONCRETE ACCESS DRIVEWAY, 35' LONG FROM EDGE OF WET WELL TO BACK OF CURB.
18. ENGINEER SHALL PROVIDE A SCALED (1" = 20' MIN.) SITE SPECIFIC DETAIL.

PUMP STATION DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	MAY 2022	FIG. 301

Key Map:

NO.	DATE:	DESCRIPTIONS:
4	08/07/2023	SUBMIT TO CITY OF APOPKA
3	04/19/2023	SUBMIT TO SJRWMD
2	04/03/2023	SUBMIT TO CITY OF APOPKA
1	03/02/2023	SUBMIT TO SJRWMD
-	12/21/2022	SUBMIT TO CITY OF APOPKA

SUBMISSIONS/REVISIONS

VERTICAL DATUM:	NAVD 88
JOB NO.:	21-027B
DESIGNED BY:	MDS
DRAWN BY:	TV/KL
CHECKED BY:	MDS
APPROVED BY:	MDS
SCALE IN FEET:	N.T.S.

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

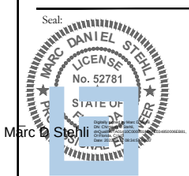
Sheet Title:

LIFT STATION DETAILS

Sheet No.:

C9.21

Seal:



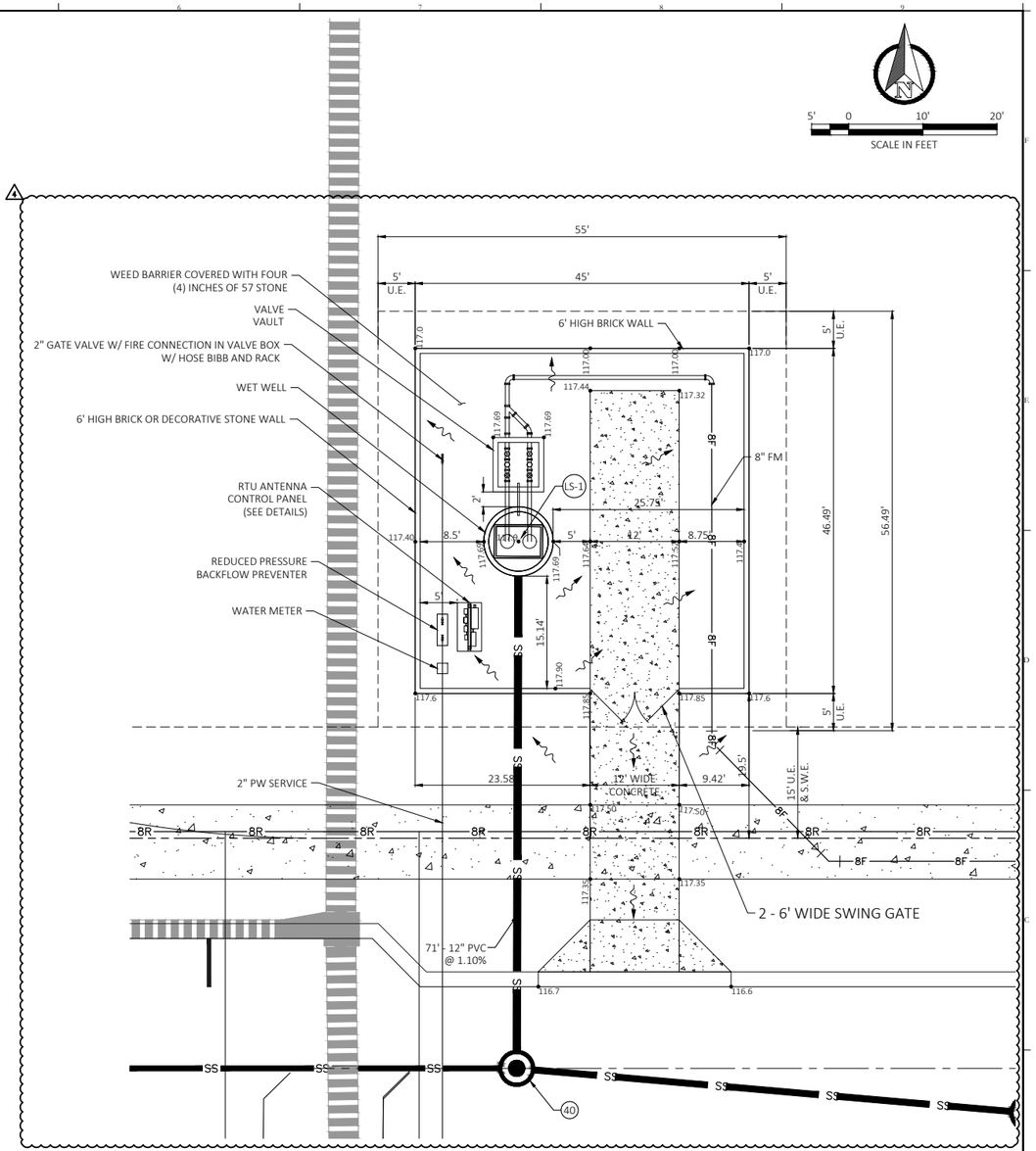
MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

Marc D Stehli

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
Tel. 407.487.2594 www.poulosandbennett.com
Eng. Bus. No. 28567

Z:\2021\21-027 GALVIN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MI-CDTLS



NOTES:

1. DRIVEWAY AND APRON SHALL BE SIX (6) INCH THICK, 3000 P.S.I. CONCRETE. WITH NO. 6X6 WIRE MESH OR FIBER MESH.
2. POWER TO THE PUMP STATION SHALL BE THROUGH UNDERGROUND CONDUIT FROM SUPPLY SOURCE IN RIGHT-OF-WAY.
3. GRATE TO BE DECORATIVE BLACK POWDER COATED ALUMINUM W/ PICKET SPACING = OR < 4".
4. MEASUREMENT SHALL BE EQUAL TO OR GREATER THAN THE DEPTH OF THE WET WELL.
5. WET WELL LID MUST BE OPEN TOWARD CONTROL PANEL (HINDGE SIDE TOWARD PANEL).
6. LIFT STATION WALL TO BE PLACED AT LEAST 15FT. BEHIND R/W LINE.
7. TOP WET WELL/ VALVE VAULT ELEV=117.86'. FINISHED GRADE IMMEDIATELY ADJACENT TO WET WELL/ VALVE VAULT SHALL BE 2" LOWER.

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SCALE IN FEET:	N.T.S.

Project Name:

CROSSROADS AT KELLY PARK - PHASE 1-2, 1-3 & 2 MASTER INFRASTRUCTURE AND MASS GRADING

Jurisdiction:

CITY of APOPKA, FL

Sheet Title:

LIFT STATION DETAILS

Sheet No.:

C9.22

Seal:

MARC DANIEL STEHLI LICENSE No. 52781 STATE OF FLORIDA PROFESSIONAL ENGINEER

Marc D Stehli

MARC DANIEL STEHLI
P.E. NO. 0052781
DATE: August 7, 2023

POULOS & BENNETT

Poulos & Bennett, LLC
2602 E. Livingston St., Orlando, FL 32803
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Z:\2021\21-027 GALVAN - KELLY PARK PARCELS\CAD\FINAL\CITY\PHASE 1-2 MASTER INFRASTRUCTURE\21-027-PHASE 1-2 MH-CDTLS

LEGEND

I.R.C.	–	IRON ROD & CAP
C.M.	–	CONCRETE MONUMENT
I.P.	–	IRON PIPE
FND.	–	FOUND
ID	–	IDENTIFICATION
COR.	–	CORNER
SEC.	–	SECTION
R/W	–	RIGHT-OF-WAY
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H.W.F.	–	HOG WIRE FENCE
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WV	–	WATER VALVE
T	–	TELEPHONE RISER
	–	GUY ANCHOR
	–	POWER POLE
GVB	–	GAS VALVE BOX
E	–	ELECTRIC RISER
	–	GUY POLE

LEGAL DESCRIPTION: (PROVIDED BY CLIENT FROM SURVEY PREPARED BY ATLANTIC SURVEYING, DATED 6/30/21)

That part of the Northeast Quarter of the Northwest Quarter of Section 11, Township 20 South, Range 27 East, Orange County, Florida, lying South and East of Ondich Road.

AND

The Southeast Quarter of the Northwest Quarter of Section 11, Township 20 South, Range 27 East, Orange County, Florida. PARCEL 2:
From the East 1/4 corner of Section 11, Township 20 South, Range 27 East, Orange County, Florida, run thence South 00°22'00" East, 150.00 feet along the East line of the Southeast Quarter of said Section 11, thence South 89°56'26" West, 589.09 feet parallel to the North line of the Southeast Quarter for a point of beginning; run thence South 00°22'00" East, 338.52 feet to a point 2174.38 feet North of the South line of said Southeast Quarter; thence South 89°18'07" West, 744.89 feet parallel to the South line of said Southeast Quarter to the West line of the East Half of said Southeast Quarter; run thence North 00°06'47" West, 492.48 feet to the Northwest corner of said East Half of the Southeast Quarter; run thence North 00°16'44" West, 663.59 feet, more or less to the Southwest corner of the Northwest Quarter of the Southeast Quarter of the Northeast Quarter of said Section 11, thence East along the South line of the North Half of the Southeast Quarter of the Northeast Quarter of Section 11 to a point 589.09 feet West of the Southeast corner thereof; run thence South to the point of beginning.

AND

The North 15 feet of the South 30 feet of the East 589.09 feet of the Southeast Quarter of the Northeast Quarter of Section 11, Township 20 South, Range 27 East, Orange County, Florida.

AND

The North 15 feet of the South 30 feet of the South Half of the Southwest Quarter of the Northwest Quarter of Section 12, Township 20 South, Range 27 East, Orange County, Florida (less the Easterly 30 feet thereof for Effie Road).

AND

A portion of the West half of the East half of Section 11, Township 20 South, Range 27 East, lying in Orange County, Florida, being more particularly described as follows:

Commence at the North quarter corner of said Section 11, being a 6"x6" concrete monument; thence go South 00°12'00" East along the Westerly line of said West half of the East half of said Section 11 a distance of 30.00 feet to a round concrete monument bearing the license number 1916 and being the point of beginning; thence North 89°11'16" East along the Southerly right-of-way line of Ondich Road, a 60 foot right-of-way a distance of 1328.54 feet, thence South 00°18'17" East along the Easterly line of the aforementioned West half of the East half of said Section 11 a distance of 2626.42 feet to an iron rod monument with license 3763 said rod being on the Southerly line of the Northeast quarter of said Section 11; thence South 00°24'28" East a distance of 490.38 feet to a concrete monument; thence South 89°19'44" West a distance of 1333.50 feet to a concrete monument with license 3763 said monument being on the aforementioned Westerly line of the West half of the East half of said Section 11; thence North 00°12'32" West a distance of 496.88 feet to a 4"x4" concrete monument said point being on the South line of the Northeast quarter of said Section 11; thence North 00°12'00" West along the Westerly line of said West half of the East half of said Section 11 a distance of 2617.03 feet to the point of beginning.

AND

The North 993.38 feet of:

Go to a point 589.09 feet West of the Southeast corner of the Southeast Quarter of Section 11, Township 20 South, Range 27 East, Orange County, Florida for a Point of Beginning. Then proceed North 2174.38 feet, thence West 1000 feet, thence South 2174.38 feet to Section line, thence East 1000 feet to Point of Beginning.

LESS the West 406.27 feet thereof; LESS the East 390.73 feet thereof; AND LESS Road Right-of-Way on South.

AND

The North 993.38 feet of:

Go to a point 589.09 feet West of the Southeast corner of the Southeast Quarter of Section 11, Township 20 South, Range 27 East, Orange County, Florida for a Point of Beginning. Then proceed North 2174.38 feet, thence West 1000 feet, thence South 2174.38 feet to Section line, thence East 1000 feet to Point of Beginning.

LESS the West 609.27 feet thereof; AND LESS Road Right-of-Way on South.

SURVEYOR'S NOTES:

(1) THIS MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY IS NOT VALID UNLESS IT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER IDENTIFIED BELOW.

(2) NO ABSTRACT FOR RIGHTS-OF-WAY, EASEMENTS, OWNERSHIP OR OTHER INSTRUMENTS OF RECORD HAVE BEEN PROVIDED TO THIS FIRM.

(3) BEARINGS SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, N.A.D. 1983 (CORS96), DERIVING A BEARING OF NORTH 89°08'52" EAST FOR THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 20 SOUTH, RANGE 27 EAST.

(4) UNLESS OTHERWISE NOTED OR SHOWN HEREON, APPARENT AND/OR UNOBSTRUCTED, ABOVE GROUND PERIMETER IMPROVEMENTS WERE LOCATED. UNDERGROUND IMPROVEMENTS, SUCH AS FOUNDATIONS AND UTILITIES, WERE NOT LOCATED.

(5) INTERIOR IMPROVEMENTS WERE NOT LOCATED.

(6) THE DELINEATION OF LANDS SHOWN HEREON IS AS PER THE CLIENT'S INSTRUCTIONS.

(7) THE CLASSIFICATION USE OF THE LAND, PURSUANT TO THE MINIMUM TECHNICAL STANDARDS SET FORTH IN CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE, FLORIDA STATUTES 472.027, IS COMMERCIAL/HIGH RISK. THE MINIMUM RELATIVE DISTANCE ACCURACY OF THIS MAP OF BOUNDARY SURVEY ACHIEVES OR EXCEEDS ONE FOOT IN 10,000 FEET.

(8) UNLESS OTHERWISE NOTED OR SHOWN HEREON, THERE ARE NO APPARENT AND/OR UNOBSTRUCTED, ABOVE GROUND ENCROACHMENTS. THE DISPOSITION OF ANY POTENTIAL ENCROACHING IMPROVEMENTS SHOWN IS BEYOND PROFESSIONAL PURVIEW AND SUBJECT TO LEGAL INTERPRETATION.

(9) ADJOINING PARCEL OWNER AND RECORDING INFORMATION DELINEATED HEREON WAS OBTAINED FROM THE ORANGE COUNTY PROPERTY APPRAISER'S PUBLIC ACCESS SYSTEM.

(10) NORTH-SOUTH AND EAST-WEST TIES TO RECOVERED MONUMENTATION NEAR VARIOUS LAND BOUNDARY CORNERS SHOWN HEREON ARE BY COORDINATE DIFFERENCE.

(11) THE SURVEYED LANDS MAY BE SUBJECT TO JURISDICTIONAL ENTITIES.

(12) ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AND ARE BASED ON THE FOLLOWING ORANGE COUNTY ENGINEERING DEPARTMENT'S BENCHMARKS:
L708029 EL. 127.968'
L708027 EL. 145.285'

(13) THE VERTICAL CONTROL ESTABLISHED FOR THIS SURVEY IS BASED ON A CLOSED LEVEL LOOP, HAVING A CLOSURE ACCURACY WHICH MEETS OR EXCEEDS THAT REQUIRED BY THE STANDARDS OF PRACTICE SET FORTH IN RULE CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, FLORIDA STATUTES 472.027.

DAVID A. WHITE, P.S.M.
FLORIDA REGISTRATION NO. 4044
PEC – SURVEYING AND MAPPING, LLC
CERTIFICATE OF AUTHORIZATION L.B. #7808

Digitally signed by David A White
Date: 2022.03.23 15:04:00 -04'00'

DAVID A. WHITE, P.S.M.
FLORIDA REGISTRATION NO. 4044
PEC – SURVEYING AND MAPPING, LLC
CERTIFICATE OF AUTHORIZATION NO. LB-7808
LAST DATE OF FIELD SURVEY: 03/17/22
DATE OF SIGNATURE: 03/23/22

SHEET 1 OF 2

DATE	BY	REVISIONS

PEC | SURVEYING AND MAPPING, LLC
CERTIFICATE OF AUTHORIZATION NUMBER LB 7808
100 Alexandria Boulevard, Suite 11 • Oviedo, Florida 32765 • 407-542-4967

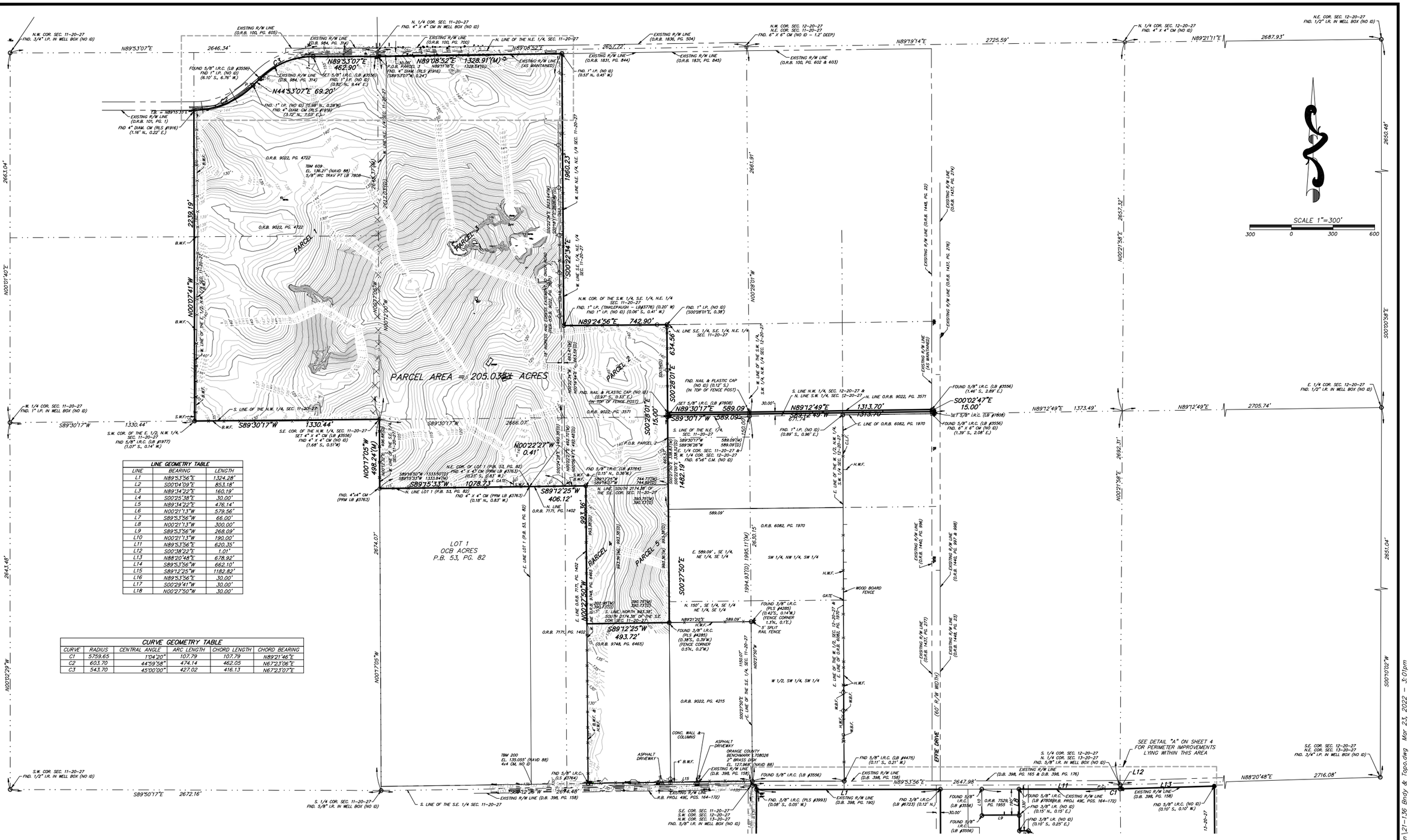
MAP OF BOUNDARY AND TOPOGRAPHIC SURVEY
LOCATED IN
SECTION 11, TOWNSHIP 20 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

TRACY W. BIRCH, P.S.M. FL. REG. NO. 5579

DAVID A. WHITE, P.S.M. FL. REG. NO. 4044

JOB NO.:	21-136
DATE:	03-23-22
DRAWN BY:	D.C.G./T.W.B.
CHECKED BY:	P.S./D.W.
F.B.	1642/1646/2414/2428
PAGE(S)	1-78/1-11/1-26&37-61/1-58

J:\21-136 Kelly Park Land Masterplan\21-136 Bndy & Topo Cover.dwg Mar 23, 2022 - 3:02pm



LINE GEOMETRY TABLE		
LINE	BEARING	LENGTH
L1	N89°53'56"E	1324.28'
L2	S00°04'09"E	853.18'
L3	N89°34'22"E	160.19'
L4	S00°25'38"E	30.00'
L5	N89°34'22"E	476.14'
L6	N00°21'13"W	579.56'
L7	S89°53'56"W	66.00'
L8	N00°21'13"W	300.00'
L9	S89°53'56"W	268.09'
L10	N00°21'13"W	190.00'
L11	N89°53'56"E	620.35'
L12	S00°38'22"E	1.01'
L13	N88°20'48"E	678.92'
L14	S89°53'56"W	662.10'
L15	S89°12'25"W	1182.82'
L16	N89°53'56"E	30.00'
L17	S00°29'41"W	30.00'
L18	N00°27'50"W	30.00'

CURVE GEOMETRY TABLE					
CURVE	RADIUS	CENTRAL ANGLE	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	5759.65	1°04'20"	107.79	107.79	N89°21'46"E
C2	603.70	44°59'58"	474.14	462.05	N67°23'06"E
C3	543.70	45°00'00"	427.02	416.13	N67°23'07"E

DATE	BY	REVISIONS

PEC | **SURVEYING AND MAPPING, LLC**
CERTIFICATE OF AUTHORIZATION NUMBER LB 7808
100 Alexandria Boulevard, Suite 11 • Oviedo, Florida 32765 • 407-542-4967

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C:\21-136 Kelly Park Land Masterplan\21-136 Bridy & Topo.dwg Mar 23, 2022 - 3:01pm

LEGEND

I.R.C.	–	IRON ROD & CAP
C.M.	–	CONCRETE MONUMENT
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(5) INTERIOR IMPROVEMENTS WERE NOT LOCATED.

(6) THE DELINEATION OF LANDS SHOWN HEREON IS AS PER THE CLIENT'S INSTRUCTIONS.

(7) THE CLASSIFICATION USE OF THE LAND, PURSUANT TO THE MINIMUM TECHNICAL STANDARDS SET FORTH IN CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE, FLORIDA STATUTES 472.027, IS COMMERCIAL/HIGH RISK. THE MINIMUM RELATIVE DISTANCE ACCURACY OF THIS MAP OF BOUNDARY SURVEY ACHIEVES OR EXCEEDS ONE FOOT IN 10,000 FEET.

(8) UNLESS OTHERWISE NOTED OR SHOWN HEREON, THERE ARE NO APPARENT AND/OR UNOBSTRUCTED, ABOVE GROUND ENCROACHMENTS. THE DISPOSITION OF ANY POTENTIAL ENCROACHING IMPROVEMENTS SHOWN IS BEYOND PROFESSIONAL PURVIEW AND SUBJECT TO LEGAL INTERPRETATION.

(9) ADJOINING PARCEL OWNER AND RECORDING INFORMATION DELINEATED HEREON WAS OBTAINED FROM THE ORANGE COUNTY PROPERTY APPRAISER'S PUBLIC ACCESS SYSTEM.

(10) NORTH-SOUTH AND EAST-WEST TIES TO RECOVERED MONUMENTATION NEAR VARIOUS LAND BOUNDARY CORNERS SHOWN HEREON ARE BY COORDINATE DIFFERENCE.

(11) THE SURVEYED LANDS MAY BE SUBJECT TO JURISDICTIONAL ENTITIES.

(12) ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AND ARE BASED ON THE FOLLOWING ORANGE COUNTY ENGINEERING DEPARTMENT'S BENCHMARKS:
L708029 EL. 127.968'
L708027 EL. 145.285'

(13) THE VERTICAL CONTROL ESTABLISHED FOR THIS SURVEY IS BASED ON A CLOSED LEVEL LOOP, HAVING A CLOSURE ACCURACY WHICH MEETS OR EXCEEDS THAT REQUIRED BY THE STANDARDS OF PRACTICE SET FORTH IN RULE CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, FLORIDA STATUTES 472.027.

(14) ALL TREES 6" AND ABOVE WERE LOCATED.

NOTES:

SEE SHEET 1 OF 6 FOR LEGAL DESCRIPTION AND NOTES.
SEE SHEET 2 OF 6 FOR BOUNDARY SURVEY.
SEE SHEETS 3 AND 4 FOR TREE LOCATIONS.
SEE SHEET 5 AND 6 FOR TREE COORDINATES AND DESCRIPTIONS.

DAVID A. WHITE, P.S.M.
FLORIDA REGISTRATION NO. 4044
PEC – SURVEYING AND MAPPING, LLC
CERTIFICATE OF AUTHORIZATION NO. LB-7808
LAST DATE OF FIELD SURVEY: 03/17/22
DATE OF SIGNATURE: 10/3/22

DATE	BY	REVISIONS

PEC | SURVEYING AND MAPPING, LLC
CERTIFICATE OF AUTHORIZATION NUMBER LB 7808
100 Alexandria Boulevard, Suite 11 • Oviedo, Florida 32765 • 407-542-4967

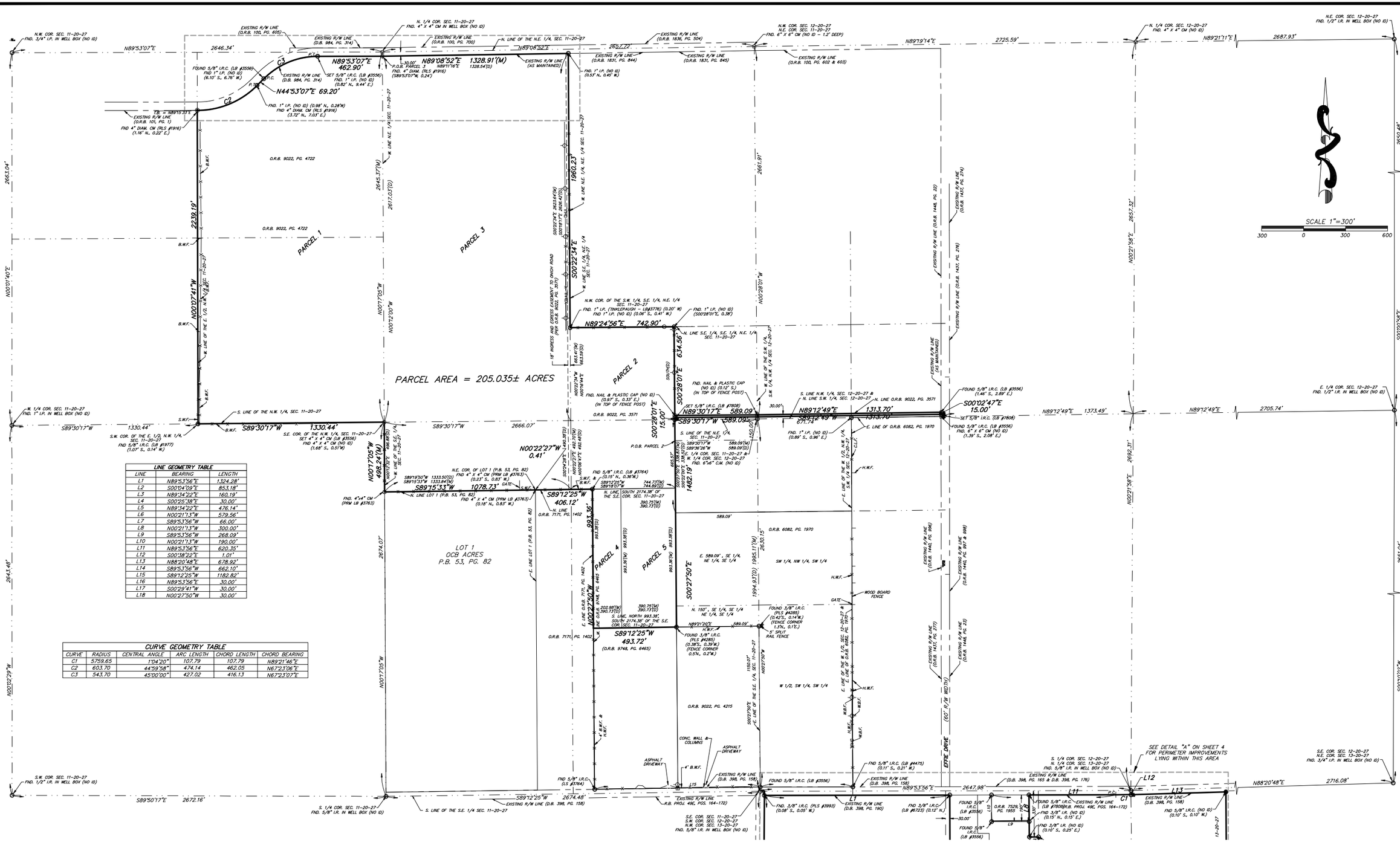
MAP OF BOUNDARY AND TREE SURVEY
LOCATED IN
SECTION 11, TOWNSHIP 20 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

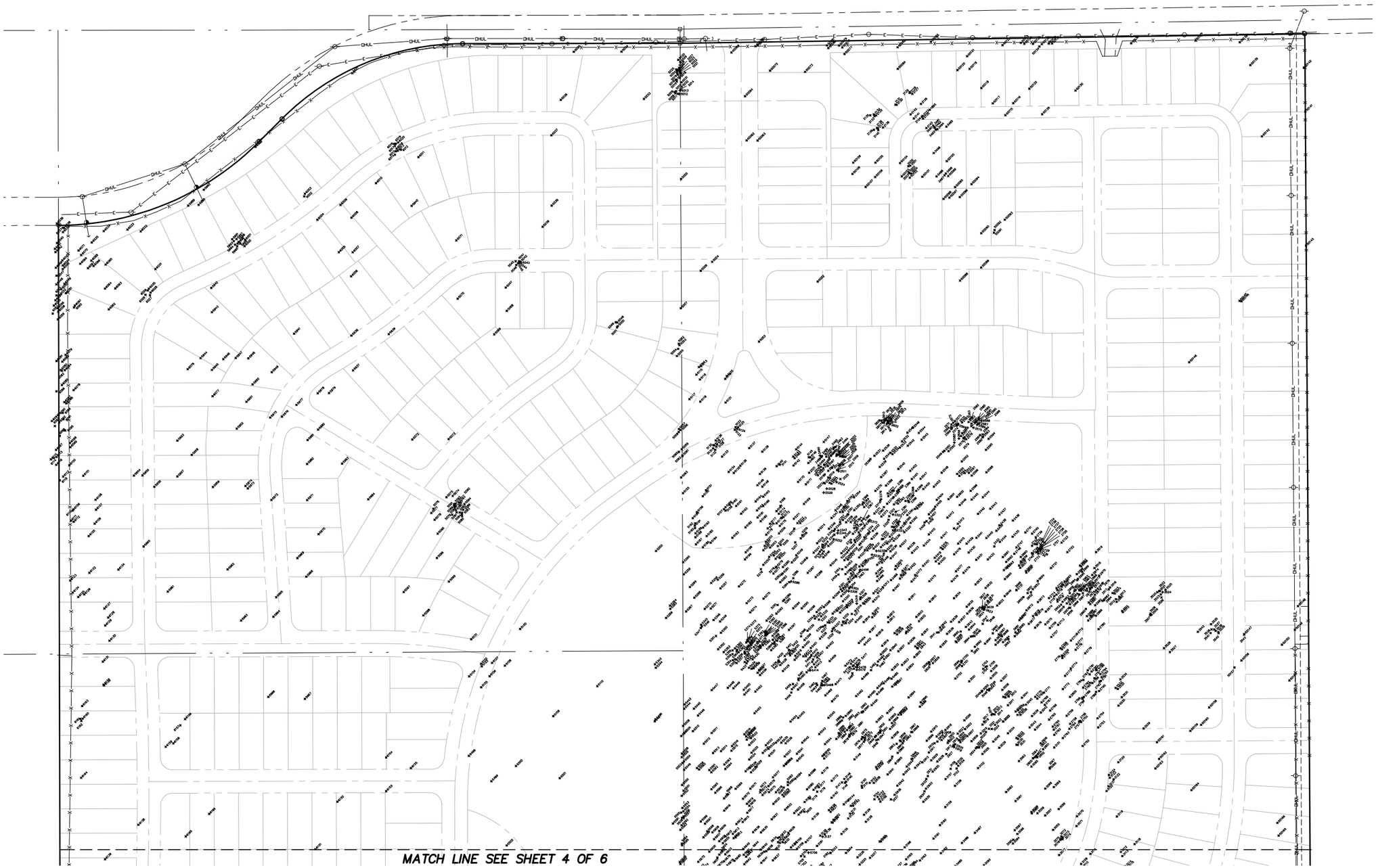
TRACY W. BIRCH, P.S.M. FL. REG. NO. 5579

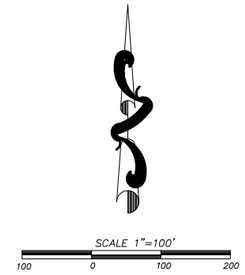
DAVID A. WHITE, P.S.M. FL. REG. NO. 4044

JOB NO.:	21-136
DATE:	03-23-22
DRAWN BY:	D.C.G./T.W.B.
CHECKED BY:	P.S./D.W.
F.B.	1642/1646/2414/2428
PAGE(S)	1-78/1-11/1-26&37-61/1-58

S:\21-136 Kelly Park Land Masterplan\21-136 Bndy & Tree Cover.dwg Oct 03, 2022 - 10:49am


PARCEL AREA = 205.035± ACRES
PARCEL 1
PARCEL 2
PARCEL 3
PARCEL 4
PARCEL 5
LOT 1
OCB ACRES
P.B. 53, PG. 82
SCALE 1"=300'
300 0 300 600
N.W. COR. SEC. 11-20-27
FND. 3/4" I.P. IN WELL BOX (NO ID)
N.E. COR. SEC. 12-20-27
FND. 1/2" I.R. IN WELL BOX (NO ID)
N. 1/4 COR. SEC. 11-20-27
FND. 4" X 4" CM IN WELL BOX (NO ID)
N. 1/4 COR. SEC. 12-20-27
FND. 4" X 4" CM (NO ID)
E. 1/4 COR. SEC. 12-20-27
FND. 1/2" I.R. IN WELL BOX (NO ID)
W. 1/4 COR. SEC. 11-20-27
FND. 1" I.P. IN WELL BOX (NO ID)
S.W. COR. SEC. 11-20-27
FND. 1/2" I.R. IN WELL BOX (NO ID)
S. 1/4 COR. SEC. 11-20-27
FND. 5/8" I.R. IN WELL BOX (NO ID)
S.E. COR. SEC. 12-20-27
N.E. COR. SEC. 13-20-27
FND. 3/4" I.P. IN WELL BOX (NO ID)
N89°53'07"E 2646.34'
N89°08'52"E 1328.91'(M)
N89°19'14"E 2725.59'
N89°21'11"E 2687.93'
S89°30'17"W 1330.44'
S89°30'17"W 2666.07'
S89°12'25"W 2674.48'
S89°01'17"E 2672.16'
N88°20'48"E 2716.08'
N89°24'56"E 742.90'
N89°30'17"E 589.09'
N89°12'49"E 1313.70'
N89°12'49"E 1373.49'
N89°12'49"E 2705.74'
S89°12'25"W 1078.73'
S89°15'33"W 1333.84'(M)
S89°19'50"W 1333.50'(D)
S89°12'25"W 493.72'
(O.R.B. 9748, PG. 6465)
S89°12'25"W 406.12'
N89°53'56"E 2647.98'
N00°22'27"W 0.41'
S00°28'01"E 634.56'
S00°28'01"E 15.00'
S00°02'47"E 15.00'
N00°17'05"W 498.24'(M)
N00°17'05"W
N00°01'40"E
N00°01'41"W
N00°17'00"W
N00°28'01"W
N00°21'58"E
S00°00'38"E
N00°02'29"W
S00°07'02"W
2663.04'
2643.48'
2674.07'
2645.37'(M)
2617.03'(D)
2661.91'
2657.32'
2650.48'
2651.04'
2692.31'
2239.19'
1960.23'
993.36'(M)
1402.19'
1394.93'(D)
1995.11'(M)
26.30.15'
1550.07'
1492.00'
1330.44'
1313.70'
15.00'
634.56'
589.09'
671.74'
665.53'
665.53'(M)
665.39'(D)
202.98'(M)
390.75'(M)
390.73'(D)
744.23'(M)
744.69'(D)
O.R.B. 9022, PG. 4722
O.R.B. 9022, PG. 3571
O.R.B. 9022, PG. 4215
O.R.B. 6082, PG. 1970
O.R.B. 7529, PG. 1955
O.R.B. 7171, PG. 1402
O.R.B. 9748, PG. 6465
W. LINE N.E. 1/4, N.E. 1/4 SEC. 11-20-27
W. LINE OF THE E. 1/2, N.W. 1/4, N.E. 1/4 SEC. 11-20-27
S. LINE OF THE N.W. 1/4, SEC. 11-20-27
S. LINE OF THE S.E. 1/4 SEC. 11-20-27
N. LINE S.E. 1/4, S.E. 1/4, N.E. 1/4 SEC. 11-20-27
W. LINE S.E. 1/4, N.E. 1/4 SEC. 11-20-27
N.W. COR. OF THE S.W. 1/4, S.E. 1/4, N.E. 1/4 SEC. 11-20-27
N. LINE OF THE N.E. 1/4, SEC. 11-20-27
W. LINE OF THE W. 1/2, SW 1/4, SW 1/4 SEC. 12-20-27
E. LINE OF THE W. 1/2, SW 1/4, SW 1/4 SEC. 12-20-27
N. LINE OF THE S.W. 1/4, N.W. 1/4 SEC. 12-20-27
S. LINE N.W. 1/4, SEC. 12-20-27 & N. LINE S.W. 1/4, SEC. 12-20-27
E. LINE OF THE W. 1/2, S.W. 1/4, N.W. 1/4 SEC. 12-20-27
W. LINE OF THE E. 1/2, S.W. 1/4, N.W. 1/4 SEC. 12-20-27
W. LINE OF THE E. 1/2, S.W. 1/4 SEC. 12-20-27
E. LINE OF THE W. 1/2, S.W. 1/4 SEC. 12-20-27
E. LINE OF THE W. 1/2, S.W. 1/4, N.W. 1/4 SEC. 12-20-27
E. LINE OF THE W. 1/2, S.W. 1/4 SEC. 12-20-27
N. LINE OF THE S.E. 1/4, S.E. 1/4, N.E. 1/4 SEC. 11-20-27
N. LINE OF THE S.W. 1/4, S.E. 1/4, N.E. 1/4 SEC. 11-20-27
W. LINE S.E. 1/4, N.E. 1/4 SEC. 11-20-27
E. LINE LOT 1 (P.B. 53, PG. 82)
N. LINE LOT 1 (P.B. 53, PG. 82)
E. LINE O.R.B. 7171, PG. 1402
N. LINE O.R.B. 7171, PG. 1402
N. LINE, SOUTH 2174.38' OF THE S.E. COR. SEC. 11-20-27
S. LINE, NORTH 993.36', SOUTH 2174.38' OF THE S.E. COR. SEC. 11-20-27
N. LINE, SOUTH 2174.38' OF THE S.E. COR. SEC. 11-20-27
E. 589.09', SE 1/4 NE 1/4, SE 1/4
N. 150', SE 1/4, SE 1/4 NE 1/4, SE 1/4
S. LINE, SOUTH 2174.38' OF THE S.E. COR. SEC. 11-20-27
S. LINE O.R.B. 6082, PG. 1970
S. LINE O.R.B. 9022, PG. 3571
N. LINE O.R.B. 9022, PG. 3571
N. LINE O.R.B. 6082, PG. 1970
E. LINE O.R.B. 6082, PG. 1970
E. LINE O.R.B. 9022, PG. 4215
E. LINE O.R.B. 7529, PG. 1955
E. LINE O.R.B. 9022, PG. 4722
E. LINE O.R.B. 9022, PG. 4215
E. LINE O.R.B. 9022, PG. 4722
E. LINE O.R.B. 9022, PG. 4722
E. LINE O.R.B. 9022, PG. 4722





NOTES:

SEE SHEET 1 OF 6 FOR LEGAL DESCRIPTION AND NOTES.

SEE SHEET 2 OF 6 FOR BOUNDARY SURVEY.

SEE SHEETS 3 AND 4 FOR TREE LOCATIONS.

SEE SHEET 5 AND 6 FOR TREE COORDINATES AND DESCRIPTIONS.

FIELD BOOK/PAGES
2428/58
2434/11-81
2415/24-59
2436/2-7
2414/6270

ALL TREES 6" AND ABOVE WERE LOCATED.

SHEET 3 OF 6

DATE	BY	REVISIONS

PEC | SURVEYING AND MAPPING, LLC
CERTIFICATE OF AUTHORIZATION NUMBER LB 7808
2100 Alafaya Trail, Suite 203 • Oviedo, Florida 32765 • 407-542-4967
WWW.PECONLINE.COM dw@peconline.com

MAP OF BOUNDARY AND TREE SURVEY
LOCATED IN
SECTION 11, TOWNSHIP 20 SOUTH, RANGE 27 EAST
ORANGE COUNTY, FLORIDA

DAVID A. WHITE, P.S.M. FL. REG. NO. 4044

TRACY W. BIRCH, P.S.M. FL. REG. NO. 5579

JOB NO.:	21-136
DATE:	4-25-2022
DRAWN BY:	J.L.M.
CHECKED BY:	D.A.W
F.B.	VARIES
PAGE(S)	PAGES

C:\21-136 Kelly Park Land Masterplan\21-136 TREE SURVEY.dwg Oct 03, 2022 — 10:53am

MATCH LINE SEE SHEET 3 OF 6

NOTES:

SEE SHEET 1 OF 6 FOR LEGAL DESCRIPTION AND NOTES.

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2428/58
2434/11-81
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ALL TREES 6" AND ABOVE WERE LOCATED.

SHEET 4 OF 6

DATE	BY	REVISIONS

PEC | SURVEYING AND MAPPING, LLC
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C:\21-136 Kelly Park Land Masterplan\21-136 TREE SURVEY.dwg Oct 03, 2022 — 10:53am

TREE #	NORTHING	EASTING	TYPE	SIZE
2123	1661,331.2350	469248.8210	OAK TREE	16"
2124	1661,329.9740	469246.3680	OAK TREE	10"
2125	1661,329.5520	469249.5520	OAK TREE	15"
2126	1661,326.8670	469245.0810	OAK TREE	16"
2127	1661,334.8160	469226.8110	OAK TREE	22"
2128	1661,330.2550	469231.3380	OAK TREE	12"
2129	1661,331.9340	469220.9900	OAK TREE	24"
2130	1661,332.4.9100	469193.1500	OAK TREE	12"
2131	1661,332.0.2260	469190.7660	OAK TREE	10"
2132	1661,332.0.3240	469149.5550	OAK TREE	21"
2133	1661,330.6.6200	469149.3540	OAK TREE	20"
2134	1661,330.4.4610	469144.7230	OAK TREE	20"
2135	1661,332.5.4950	469112.5890	OAK TREE	14"
2136	1661,326.7.1060	469146.3640	OAK TREE	24"
2137	1661,326.5.4270	469146.1210	OAK TREE	24"
2138	1661,327.5.5270	469151.3820	OAK TREE	10"
2139	1661,327.1.6860	469144.7980	OAK TREE	7"
2140	1661,327.0.1440	469143.0150	OAK TREE	10"
2141	1661,329.5.8760	469229.7570	OAK TREE	9"
2142	1661,329.6.3260	469229.5640	OAK TREE	20"
2143	1661,331.3.3470	469236.5640	OAK TREE	20"
2144	1661,331.6.1180	469240.0060	OAK TREE	10"
2145	1661,331.7.2220	469241.5390	OAK TREE	10"
2146	1661,331.7.2220	469241.5390	OAK TREE	10"
2147	1661,331.7.2220	469241.5390	OAK TREE	10"
2148	1661,207.7.2220	468814.5340	OAK TREE	5"
2149	1661,207.7.2220	468814.5340	OAK TREE	11"
2150	1661,207.7.2220	468814.5340	OAK TREE	14"
2151	1661,218.4.2850	468830.6060	OAK TREE	12"
2152	1661,218.7.4540	468830.4620	OAK TREE	10"
2153	1661,218.3.4360	468845.5810	OAK TREE	7"
2154	1661,212.2.2700	468845.5810	OAK TREE	7"
2155	1661,191.7.7700	468842.7240	OAK TREE	9"
2156	1661,185.1.0800	468844.4230	OAK TREE	6"
2157	1661,173.5.6970	468843.2110	OAK TREE	14"
2158	1661,170.7.4850	468843.7370	OAK TREE	12"
2159	1661,197.5.6600	468863.1540	OAK TREE	10"
2160	1661,218.5.8350	468867.7120	OAK TREE	10"
2161	1661,195.1.7700	468886.5860	OAK TREE	7"
2162	1661,194.1.5040	468877.6850	OAK TREE	10"
2163	1661,194.1.5040	468877.6850	OAK TREE	10"
2164	1661,172.7.7980	468894.1040	OAK TREE	10"
2165	1661,173.1.1460	468894.1040	OAK TREE	10"
2166	1661,187.0.3310	468877.9880	OAK TREE	10"
2167	1661,187.0.3310	468877.9880	OAK TREE	10"
2168	1661,187.0.3310	468877.9880	OAK TREE	10"
2169	1661,178.4.5560	468894.2220	OAK TREE	24"
2170	1661,162.8.9030	468896.2760	OAK TREE	24"
2171	1661,162.8.9030	468896.2760	OAK TREE	24"
2172	1661,142.4.4400	468958.3520	OAK TREE	7"
2173	1661,130.6.6220	468962.3400	OAK TREE	7"
2174	1661,130.6.6220	468962.3400	OAK TREE	7"
2175	1661,115.1.3300	468950.8480	OAK TREE	10"
2176	1661,112.1.6440	468952.4620	OAK TREE	10"
2177	1661,106.9.9880	468960.0550	OAK TREE	8"
2178	1661,112.7.9980	468960.0550	OAK TREE	8"
2179	1661,125.5.5580	468931.9760	OAK TREE	13"
2180	1661,132.3.2940	468931.9760	OAK TREE	13"
2181	1661,129.7.4470	468915.8250	OAK TREE	18"
2182	1661,136.0.6620	468937.4050	OAK TREE	14"
2183	1661,142.0.4400	468937.4050	OAK TREE	14"
2184	1661,161.2.8800	468891.9340	TREE	8"
2185	1661,166.5.4450	468891.9340	TREE	8.5"
2186	1661,137.0.6670	468949.8500	OAK TREE	17.9"
2187	1661,135.2.4660	468949.8500	OAK TREE	7"
2188	1661,113.8.4030	468942.7200	OAK TREE	6"
2189	1661,113.8.4030	468942.7200	OAK TREE	6"
2190	1661,121.2.7740	468865.5410	OAK TREE	13"
2191	1661,083.2.3300	468867.8090	OAK TREE	15"
2192	1661,083.4.4250	468864.9360	OAK TREE	14"
2193	1661,045.1.5040	468864.1890	OAK TREE	14"
2194	1661,042.9.8180	468867.9900	OAK TREE	15"
2195	1661,033.2.0020	468918.4490	OAK TREE	9"
2196	1661,025.6.9920	468918.3220	OAK TREE	9.10"
2197	1661,052.1.2260	468963.1260	OAK TREE	9"
2198	1661,056.8.5510	468963.1260	OAK TREE	9"
2199	1661,059.7.3820	468949.5420	OAK TREE	6"
2200	1661,060.4.9280	468949.5420	OAK TREE	6"
2201	1661,074.9.6140	468945.9620	OAK TREE	7"
2202	1661,077.0.0740	468945.2550	OAK TREE	8"
2203	1661,081.3.6870	468945.2550	OAK TREE	8"
2204	1661,089.0.5580	468938.4135	OAK TREE	13"
2205	1661,085.6.3310	468938.4135	OAK TREE	13"
2206	1661,110.4.4860	468934.3730	OAK TREE	6"
2207	1661,110.4.4860	468934.3730	OAK TREE	6"
2208	1661,076.2.1.9300	468936.0110	OAK TREE	11"
2209	1661,076.2.1.9300	468936.0110	OAK TREE	11"
2210	1661,067.2.0260	468973.9160	OAK TREE	8"
2211	1661,073.4.0070	468961.7030	OAK TREE	14"
2212	1661,077.1.1590	468962.0230	OAK TREE	13"
2213	1661,095.2.9970	468973.1820	OAK TREE	24"
2214	1661,095.2.9970	468973.1820	OAK TREE	24"
2215	1661,102.3.4620	468923.7690	OAK TREE	14"
2216	1661,050.6.9660	468958.0100	OAK TREE	9"
2217	1661,055.2.0260	468936.7550	OAK TREE	22"
2218	1661,031.2.1110	468936.8630	OAK TREE	9"
2219	1661,031.2.1110	468936.8630	OAK TREE	9"
2220	1661,031.5.4180	468934.2310	OAK TREE	16"
2221	1661,031.5.4180	468934.2310	OAK TREE	16"
2222	1661,111.6.1530	468934.2310	OAK TREE	16"
2223	1661,111.6.1530	468934.2310	OAK TREE	16"
2224	1661,111.6.1530	468934.2310	OAK TREE	16"
2225	1661,069.6.1530	469036.0750	OAK TREE	10"
2226	1661,066.9.6620	469032.5150	OAK TREE	16"
2227	1661,110.2.1900	469036.9810	OAK TREE	9"
2228	1661,058.1.8530	469028.0550	OAK TREE	17"
2229	1661,067.2.5280	469243.9420	OAK TREE	10"
2230	1661,057.6.6980	469228.0550	OAK TREE	12"
2231	1661,059.7.1140	469243.7460	OAK TREE	10"
2232	1661,059.7.1140	469243.7460	OAK TREE	10"
2233	1661,073.0.7770	469009.9820	OAK TREE	6"
2234	1661,073.0.7770	469009.9820	OAK TREE	6"
2235	1661,078.8.6270	469046.0670	OAK TREE	6"
2236	1661,078.8190	468906.0670	OAK TREE	6.9"
2237	1661,059.8670	468992.4870	OAK TREE	6"
2238	1661,078.4170	468992.4870	OAK TREE	6"
2239	1661,076.5670	469009.7170	OAK TREE	6"
2240	1661,098.9280	469009.2400	OAK TREE	12"
2241	1661,061.1170	469079.4420	OAK TREE	22"
2242	1661,076.1610	469079.4420	OAK TREE	22"
2243	1661,094.8990	469081.6410	OAK TREE	21"
2244	1661,083.6270	469074.4830	OAK TREE	11"
2245	1661,087.1640	469107.1700	OAK TREE	24"
2246	1661,083.4070	469110.6830	OAK TREE	19"
2247	1661,106.0220	469133.7900	OAK TREE	16"
2248	1661,065.3.4100	469146.2040	OAK TREE	11"
2249	1661,083.4070	469110.6830	OAK TREE	19"
2250	1661,089.2.5460	469160.5440	OAK TREE	35"
2251	1661,123.4.7040	469157.5440	OAK TREE	13"
2252	1661,129.0220	469156.9470	OAK TREE	6"
2253	1661,131.1.1860	469156.9470	OAK TREE	6"
2254	1661,179.8000	469095.4590	OAK TREE	8.9"
2255	1661,162.2.3460	469079.6140	OAK TREE	30"
2256	1661,189.2.3310	469081.5310	OAK TREE	21"
2257	1661,205.6890	469032.5170	OAK TREE	15"
2258	1661,225.8440	469032.5170	OAK TREE	15"
2259	1661,212.6290	469056.9700	OAK TREE	12"
2260	1661,212.6290	469056.9700	OAK TREE	12"
2261	1661,172.8.2300	469084.3770	OAK TREE	14"
2262	1661,183.3.1080	469084.4230	OAK TREE	6"
2263	1661,214.2.1220	469101.6590	OAK TREE	18"
2264	1661,108.5.4060	468742.6590	OAK TREE	10"
2265	1661,108.6.7200	468742.6590	OAK TREE	10"
2266	1661,109.4.6390	468739.6720	OAK TREE	48"
2267	1661,111.1.1770	468886.5860	OAK TREE	7"
2268	1661,194.1.5040	468877.6850	OAK TREE	10"
2269	1661,118.5.8350	468867.7120	OAK TREE	10"
2270	1661,172.7.7980	468894.1040	TREE	10"
2271	1661,004.4.7790	468738.3010	OAK TREE	15.6"
2272	1661,013.4.1790	468738.3010	OAK TREE	7"
2273	1661,009.0.0040	468745.2400	OAK TREE	12"
2274	1661,010.1.4460	468747.0960	OAK TREE	12"
2275	1661,005.6.6690	468745.6230	OAK TREE	10"
2276	1661,037.3.3750	468745.6230	OAK TREE	10"
2277	1661,018.9.6690	468775.6030	OAK TREE	18"
2278	1661,013.8.0000	468785.5500	OAK TREE	10"
2279	1661,084.3.3200	468883.9010	OAK TREE	10"
2280	1661,100.7.7200	468785.6630	OAK TREE	14"
2281	1661,114.2.3350	468790.7500	OAK TREE	11"
2282	1661,158.3.1460	468790.7500	OAK TREE	11"
2283	1661,155.5.8390	468790.6230	OAK TREE	8"
2284	1661,163.1.0010	468787.6140	OAK TREE	14"
2285	1661,172.3.9960	468787.6140	OAK TREE	14"
2286	1661,079.5.7790	468747.7090	OAK TREE	11"
2287	1661,098.4.3970	468746.8240	OAK TREE	7"
2288	1661,098.2.2340	468746.8240	OAK TREE	7"
2289	1661,091.6.5980	468770.0500	OAK TREE	16"
2290	1661,092.2.7670	468770.0500	OAK TREE	16"
2291	1661,079.6.6110	468795.9000	OAK TREE	11"
2292	1661,073.1.1050	468795.9000	OAK TREE	11"
2293	1661,079.1.6470	468798.7640	OAK TREE	11"
2294	1661,075.1.6460	468798.8000	OAK TREE	11"
2295	1661,069.5.5470	468796.0920	OAK TREE	7"
2296	1661,069.6.5410	468796.3620	OAK TREE	7"
2297	1661,065.2.6110	468796.3620	OAK TREE	7"
2298	1661,094.9.8840	468795.3190	OAK TREE	16"
2299	1661,093.7.7950	468791.9690	OAK TREE	16"
2300	1661,093.7.7950	468791.9690	OAK TREE	16"
2301	1661,079.8.3700	468890.5230	OAK TREE	10"
2302	1661,079.8.3700	468890.5230	OAK TREE	10"
2303	1661,047.1.1330	468835.9560	OAK TREE	11"
2304	1661,047.1.1330	468835.9560	OAK TREE	11"
2305	1661,050.6.9660	468958.0100	OAK TREE	9"
2306	1661,055.2.0260	468936.7550	OAK TREE	22"
2307	1661,031.2.1110	468936.8630	OAK TREE	9"
2308	1661,064.7.0100	468834.4400	OAK TREE	16"
2309	1661,055.2.0260	468936.7550	OAK TREE	22"
2310	1661,055.2.0260	468936.7550	OAK TREE	22"
2311	1661,031.5.4180	468934.2310	OAK TREE	16"
2312	1661,098.5.6020	468778.8530	OAK TREE	6"
2313	1661,014.8.5330	468721.6210	OAK TREE	16"
2314	1661,127.2.0060	468280.2620	OAK TREE	7"
2315	1661,113.5.2370	468719.4760	OAK TREE	10"
2316	1661,116.4.7750	468266.1850	OAK TREE	10"
2317	1661,113.1.4460	468268.7080	OAK TREE	10"

TREE #	NORTHING	EASTING	TYPE	SIZE
2320	1661,415.4930	469209.7590	OAK TREE	11"
2321	1661,424.7600	469202.5350	PINE TREE	9"
2322	1661,435.9870	469194.4970	PINE TREE	8"
2323	1661,452.9220	469185.5860	OAK TREE	16"
2324	1661,448.3210	469177.4290	OAK TREE	24"
2325	1661,441.8300	469175.8310	OAK TREE	24"
2326	1661,426.5220	469188.0010	PINE TREE	8"
2327	1661,420.4960	469190.2550	OAK TREE	16"
2328	1661,418.4240	469185.2900	PINE TREE	10"
2329	1661,409.9070	469183.5280	OAK TREE	8"
2330	1661,406.6.2.0	469183.5280	OAK TREE	8"
2331	1661,401.4170	469164.5380	OAK TREE	10"
2332	1661,402.0.5690	469163.1350	OAK TREE	12"
2333	1661,418.4.7710	469163.7600	PINE TREE	7"
2334	1661,418.4.7710	469163.7600	PINE TREE	7"
2335	1661,424.2.5580	469124.4960	PINE TREE	7"
2336	1661,429.1.6370	469124.4960	PINE TREE	7"
2337	1661,440.4860	469143.3520	PINE TREE	7"
2338	1661,423.4.7410	469162.7600	PINE TREE	11"
2339	1661,423.4.7410	469162.7600	PINE TREE	11"
2340	1661,424.2.0090	469088.3080	PINE TREE	10"
2341	1661,424.2.0090	469088.3080	PINE TREE	10"
2342	1661,422.1.4360	469091.9390	PINE TREE	9"
2343	1661,422.1.4360	469091.9390	PINE TREE	9"
2344	1661,413.6.3460	469067.6880	PINE TREE	9"
2345	1661,421.1.9200	469060.1400	PINE TREE	8"
2346	1661,424.2.8310	469054.3350	PINE TREE	10"
2347	1661,445.6870	469054.9250	PINE TREE	9"
2348	1661,445.6870	469054.9250	PINE TREE	9"
2349	1661,458.5700	469072.9820	PINE TREE	7"
2350	1661,458.5700	469072.9820	PINE TREE	7"
2351	1661,453.5160	469089.3790	TREE	12"
2352	1661,453.5160	469089.3790	TREE	12"
2353	1661,481.9220	469088.4390	OAK TREE	14"
2354	1661,482.2.7120	469089.4390	OAK TREE	14"
2355	1661,482.3980	469103.1720	OAK TREE	14"
2356	1661,441.6290	469078.6210	PINE TREE	10"
2357	1661,441.6290	469078.6210	PINE TREE	10"
2358	1661,436.8730	469082.8360	PINE TREE	8"
2359	1661,436.6430	469085.9700	PINE TREE	8"
2360	1661,436.6430	469085.9700	PINE TREE	8"
2361	1661,424.1690	469103.9950	PINE TREE	8"
2362	1661,424.1690	469103.9950	PINE TREE	8"
2363	1661,432.1.2.0	469103.9950	PINE TREE	8"
2364	1661,432.1.2.0	469103.9950	PINE TREE	8"
2365	1661,429.8.3400	469125.6410	PINE TREE	8"
2366	1661,429.8.3400	469125.6410	PINE TREE	8"
2367	1661,424.3.7070	469122.5190	PINE TREE	8"
2368	1661,424.3.7070	469122.5190	PINE TREE	8"
2369	1661,424.7.4.280	469120.7070	PINE TREE	8"
2370	1661,424.7.4.280	469120.7070	PINE TREE	8"
2371	1661,455.1570	469146.0570	PINE TREE	8"
2372	1661,455.1570	469146.0570	PINE TREE	8"
2373	1661,455.4.5.0	469146.8350	PINE TREE	8"
2374	1661,455.4.5.0	469146.8350	PINE TREE	8"
2375	1661,462.5.4.0	469146.8350	PINE TREE	8"
2376	1661,462.5.4.0	469146.8350	PINE TREE	8"
2377	1661,462.5.4.0	469146.8350	PINE TREE	8"
2378	1661,462.5.4.0	469146.8350	PINE TREE	8"
2379	1661,462.5.4.0	469146.8350	PINE TREE	8"
2380	1661,462.5.4.0	469146.8350	PINE TREE	8"
2381	1661,462.5.4.0	469146.8350	PINE TREE	8"
2382	1661,462.5.4.0	469146.8350	PINE TREE	8"
2383	1661,462.5.4.0	469146.8350	PINE TREE	8"
2384	1661,462.5.4.0	469146.8350	PINE TREE	8"
2385	1661,462.5.4.0	469146.8350	PINE TREE	8"
2386	1661,462.5.4.0	469146.8350	PINE TREE	8"
2387	1661,462.5.4.0	469146.8350	PINE TREE	8"
2388	1661,462.5.4.0	469146.8350	PINE TREE	8"
2389	1661,462.5.4.0	469146.8350	PINE TREE	8"
2390	1661,462.5.4.0	469146.8350	PINE TREE	8"
2391	1661,462.5.4.0	469146.8350	PINE TREE	8"
2392	1661,462.5.4.0	469146.8350	PINE TREE	8"
2393	1661,462.5.4.0	469146.8350	PINE TREE	8"
2394	1661,462.5.4.0	469146.8350	PINE TREE	8"
2395	1661,462.5.4.0	469146.8350	PINE TREE	8"
2396	1661,462.5.4.0	469146.8350	PINE TREE	8"
2397	1661,462.5.4.0	469146.8350	PINE TREE	8"
2398	1661,462.5.4.0	469146.8350	PINE TREE	8"
2399	1661,462.5.4.0	469146.8350	PINE TREE	8"
2400	1661,462.5.4.0	469146.8350	PINE TREE	8"
2401	1661,462.5.4.0	469146.8350	PINE TREE	8"
2402	1661,462.5.4.0	469146.8350	PINE TREE	8"
2403	1661,462.5.4.0	469146.8350	PINE TREE	8"
2404	1661,462.5.4.0	469146.8350	PINE TREE	8"
2405	1661,462.5.4.0	469146.8350	PINE TREE	8"
2406	1661,462.5.4.0	469146.8350	PINE TREE	8"
2407	1661,462.5.4.0	469146.8350	PINE TREE	8"
2408	1661,462.5.4.0	469146.8350	PINE TREE	8"
2409	1661,462.5.4.0	469146.8350	PINE TREE	8"
2410	1661,462.5.4.0	469146.8350	PINE TREE	8"
2411	1661,462.5.4.0	469146.8350	PINE TREE	8"
2412	1661,462.5.4.0	469146.8350	PINE TREE	8"
2413	1661,462.5.4.0	469146.8350	PINE TREE	8"
2414	1661,462.5.4.0	469146.8350	PINE TREE	8"
2415	1661,462.5.4.0	469146.8350	PINE TREE	8"
2416	1661,462.5.4.0	469146.8350	PINE TREE	8"
2417	1661,462.5.4.0	469146.8350	PINE TREE	8"
2418	1661,462.5.4.0	469146.8350	PINE TREE	8"
2419	1661,462.5.4.0	469146.8350	PINE TREE	8"
2420	1661,462.5.4.0	469146.8350	PINE TREE	8"
2421	1661,462.5.4.0	469146.8350	PINE TREE	8"
2422	1661,462.5.4.0	469146.8350	PINE TREE	8"
2423	1661,462.5.4.0	469146.8350	PINE TREE	8"
2424	1661,462.5.4.0	469146.8350	PINE TREE	8"
2425	1661,462.5.4.0	469146.8350	PINE TREE	8"
2426	1661,462.5.4.0	469146.8350	PINE TREE	8"
2427	1661,462.5.4.0	469146.8350	PINE TREE	8"
2428	1661,462.5.4.0	469146.8350	PINE TREE	8"
2429	1661,462.5.4.0	469146.8350	PINE TREE	8"
2430	1661,462.5.4.0	469146.8350	PINE TREE	8"
2431	1661,462.5.4.0	469146.8350	PINE TREE	8"
2432	1661,462.5.4.0	469146.8350	PINE TREE	8"
2433	1661,462.5.4.0	469146.8350	PINE TREE	8"
2434	1661,462.5.4.0	469146.8350	PINE TREE	8"
2435	1661,462.5.4.0	469146.8350	PINE TREE	8"
2436	1661,462.5.4.0	469146.8350	PINE TREE	8"
2437	1661,462.5.4.0	469146.8350	PINE TREE	8"
2438	1661,462.5.4.0	469146.8350	PINE TREE	8"
2439	1661,462.5.4.0	469146.8350	PINE TREE	8"
2440	1661,462.5.4.0	469146.8350	PINE TREE	8"
2441	1661,462.5.4.0	469146.8350	PINE TREE	8"
2442	1661,462.5.4.0	469146.8350	PINE TREE	8"
2443	1661,462.5.4.0	469146.8350	PINE TREE	8"
2444	1661,462.5.4.0	469146.8350	PINE TREE	8"
2445	1661,462.5.4.0	469146.8350	PINE TREE	8"
2446	1661,462.5.4.0	469146.8350	PINE TREE	8"
2447	1661,462.5.4.0	469146.8350	PINE TREE	8"
2448	1661,462.5.4.0	469146.8350	PINE TREE	8"
2449	1661,462.5.4.0	469146.8350	PINE TREE	8"
2450	1661,462.5.4.0	469146.8350	PINE TREE	8"
2451	1661,462.5.4.0	469146.8350	PINE TREE	8"
2452	1661,462.5.4.0	469146.8350	PINE TREE	8"
2453	1661,462.5.4.0	469146.8350	PINE TREE	8"
2454	1661,462.5.4.0	469146.8350	PINE TREE	8"
2455	1661,462.5.4.0	469146.8350	PINE TREE	8"
2456	1661,462.5.4.0	469146.8350	PINE TREE	8"
2457	1661,462.5.4.0	469146.8350	PINE TREE	8"
2458	1661,462.5.4.0	469146.8350	PINE TREE	8"
2459	1661,462.5.4.0	469146.8350	PINE TREE	8"
2460	1661,462.5.4.0	469146.8350	PINE TREE	8"
2461	1661,462.5.4.0	469146.8350	PINE TREE	8"
2462	1661,462.5.4.0	469146.8350	PINE TREE	8"
2463	1661,462.5.4.0	469146.8350	PINE TREE	8"
2464	1661,462.5.4.0	469146.8350	PINE TREE	8"
2465	1661,462.5.4.0	469146.8350	PINE TREE	8"
2466	1661,462.5.4.0	469146.8350	PINE TREE	8"
2467	1661,462.5.4.0	469146.8350	PINE TREE	8"
2468	1661,462.5.4.0	469146.8350	PINE TREE	8"
2469	1661,462.5.4.0	469146.8350	PINE TREE	8"
2470	1661,462.5.4.0	469146.8350	PINE TREE	8"
2471	1661,462.5.4.0	469146.8350	PINE TREE	8"
2472	1661,462.5.4.0	469146.8350	PINE TREE	8"
2473	1661,462.5.4.0	469146.8350	PINE TREE	8"
2474	1661,462.5.4.0	469146.8350	PINE TREE	8"
2475	1661,462.5.4.0	469146.8350	PINE TREE	8"
2476	1661,462.5.4.0	469146.8350	PINE TREE	8"
2477	1661,462.5.4.0	469146.8350	PINE TREE	8"
2478	1661,462.5.4.0	469146.8350	PINE TREE	8"
2479	1661,462.5.4.0	469146.8350	PINE TREE	8"
2480	1661,462.5.4.0	469146.8350	PINE TREE	8"
2481	1661,462.5.4.0	469146.8350	PINE TREE	8"
2482	1661,462.5.4.0	469146.8350	PINE TREE	8"
2483	1661,462.5.4.0	469146.8350	PINE TREE	8"
2484	1661,462.5.4.0	469146.8350	PINE TREE	8"
2485	1661,462.5.4.0	469146.8350	PINE TREE	8"
2486	1661,462.5.4.0	469146.8350	PINE TREE	8"
2487	1661,462.5.4.0	469146.8350	PINE TREE	8"
2488	1661,462.5.4.0	469146.8350	PINE TREE	8"
2489	1661,462.5.4.0	469146.8350	PINE TREE	8"
2490	1661,462.5.4.0	469146.8350	PINE TREE	8"
2491	1661,462.5.4.0	469146.8350	PINE TREE	8"
2492	1661,462.5.4.0	469146.8350	PINE TREE	8"
2493	1661,462.5.4.0	469146.8350	PINE TREE	8"
2494	1661,462.5.4.0	469146.8350	PINE TREE	8"
2495	1661,462.5.4.0	469146.8350	PINE TREE	8"
2496	1661,462.5.4.0	469146.8350	PINE TREE	8"
2497	1661,462.5.4.0	469146.8350	PINE TREE	8"
2498	1661,462.5.4.0	469146.8350	PINE TREE	8"
2499	1661,462.5.4.0	469146.8350	PINE TREE	8"
2500	1661,462.5.4.0	469146.8350	PINE TREE	8"
2501	1661,462.5.4.0	469146.8350	PINE TREE	8"
2502	1661,462.5.4.0	469146.8350	PINE TREE	8"
2503	1661,462.5.4.0	469146.8350	PINE TREE	8"
2504	1661,462.5.4.0	469146.8350	PINE TREE	8"
2505	1661,462.5.4.0	469146.8350	PINE TREE	8"
2506	1661,462.5.4.0	469146.8350	PINE TREE	8"
2507	1661,462.5.4.0	469146.8350	PINE TREE	8"
2508	1661,462.5.4.0	469146.8350	PINE TREE	8"
2509	1661,462.5.4.0	469146.8350	PINE TREE	8"
2510	1661,462.5.4.0	469146.8350	PINE TREE	8"
2511	1661,462.5.4.0	469146.8350	PINE TREE	8"
2512	1661,462.5.4.0	469146.8350	PINE TREE	8"

TREE #	NORTHING	EASTING	TYPE	SIZE
2610	1661,2166.5690	469545.1750	OAK TREE	6"
2611	1661,2184.9730	469564.1440	OAK TREE	20"
2612	1661,2198.9240	469576.5980	OAK TREE	38"
2613	1661,2218.4680	469536.6370	OAK TREE	24"
2614	1661,2275.2850	469517.3170	OAK TREE	40"
2615	1661,2279.2220	469428.6310	OAK TREE	24"
2616	1661,2282.6.630	469533.2400	OAK TREE	17"
2617	1661,2272.4.430	469535.1420	TREE	7"
2618	1661,2267.8960	469535.7930	OAK TREE	7"
2619	1661,2292.2010	469535.2220	TREE	8"
2620	1661,2313.6.0	469535.4120	OAK TREE	8.8"
2621	1661,2339.2750	469521.6350	OAK TREE	33"
2622	1661,2339.2750	469521.6350	OAK TREE	33"
2623	1661,2316.3630	469544.1710	OAK TREE	29"
2624	1661,2316.3630	469544.1710	OAK TREE	29"
2625	1661,2316.3630	469544.1710	OAK TREE	29"
2626	1661,2316.3630	469544.1710	OAK TREE	29"
2627	1661,2316.3630	469544.1710	OAK TREE	29"
2628	1661,2254.6010	469379.2450	OAK TREE	7"
2629	1661,2256.1120	469381.2070	OAK TREE	24"
2630	1661,2760.6020	469383.0150	TREE	8"
2631	1661,2269.0770	469386.8710	OAK TREE	7"
2632	1661,2304.2850	469361.1820	OAK TREE	36"
2633	1661,2304.2850	469361.1820	OAK TREE	36"
2634	1661,2304.2850	469361.1820	OAK TREE	36"
2635	1661,2256.9590	469342.4010	OAK TREE	24"
2636	1661,2256.9590	469342.4010	OAK TREE	24"
2637	1661,2219.3630	469400.2740	OAK TREE	24"
2638	1661,2224.8580	469309.0680	OAK TREE	24"
2639	1661,2224.8580	469309.0680	OAK TREE

TREE #	NORTHING	EASTING	TYPE	SIZE
5593	1611782.2380	468733.2530	OAK TREE	18"
5594	1611752.8000	468736.3560	OAK TREE	10 7"
5595	1611749.1600	468736.8900	OAK TREE	19"
5596	1611799.7860	468776.8120	OAK TREE	33"
5597	1611795.2120	468785.5660	OAK TREE	18"
5598	1611778.9980	468790.3730	OAK TREE	10"
5599	1611766.1880	468782.4050	OAK TREE	9"
5600	1611735.7920	468794.7650	OAK TREE	12"
5601	1611722.9650	468812.0770	OAK TREE	7"
5602	1611729.3280	468815.8840	OAK TREE	10"
5603	1611730.3040	468828.8320	OAK TREE	12"
5604	1611737.7180	468821.1260	OAK TREE	10"
5605	1611753.1790	468823.7530	OAK TREE	10"
5606	1611725.2340	468897.1690	OAK TREE	10"
5607	1611762.2100	468804.8960	OAK TREE	18"
5608	1611778.8250	468801.4500	OAK TREE	12"
5609	1611779.8590	468816.0890	OAK TREE	6"
5610	1611767.8650	468829.4230	OAK TREE	6"
5611	1611764.2820	468846.3560	OAK TREE	24"
5612	1611766.1120	468850.9740	OAK TREE	8"
5613	1611773.6310	468844.9290	OAK TREE	16"
5614	1611794.6250	468852.5020	OAK TREE	21"
5615	1611798.7910	468865.8410	OAK TREE	21"
5616	1611812.1070	468826.4610	OAK TREE	21"
5617	1611818.6420	468875.6510	OAK TREE	14"
5618	1611833.1070	468880.0670	OAK TREE	19"
5619	1611837.4800	468874.9460	OAK TREE	10"
5620	1611837.4050	468873.2070	OAK TREE	11"
5621	1611804.5900	468927.5550	OAK TREE	18 14"
5622	1611824.9380	468956.3170	OAK TREE	9"
5623	1611818.0140	468975.5500	OAK TREE	9"
5624	1611814.4610	468984.9150	OAK TREE	18"
5625	1611820.6580	468998.8720	OAK TREE	31"
5626	1611823.9020	469049.4180	OAK TREE	24"
5627	1611820.4960	469052.8410	OAK TREE	23"
5628	1611776.1940	468962.9360	OAK TREE	11 11 10"
5629	1611761.1940	468952.6770	OAK TREE	13"
5630	1611755.9520	468950.4990	OAK TREE	8"
5631	1611754.3350	468944.7320	OAK TREE	12"
5632	1611755.9150	468940.8440	OAK TREE	13"
5633	1611746.5160	468944.4770	OAK TREE	13"
5634	1611765.0000	468940.7370	OAK TREE	13"
5635	1611776.8020	468934.7810	OAK TREE	22"
5636	1611777.1070	468888.1290	OAK TREE	15"
5637	1611717.2160	468930.3160	OAK TREE	12"
5638	1611736.7250	468915.9010	OAK TREE	9"
5639	1611735.3720	468911.2050	OAK TREE	22"
5640	1611740.0230	468904.3690	OAK TREE	8"
5641	1611711.8900	468905.5090	OAK TREE	10"
5642	1611709.0200	468869.2880	CHERRY TREE	13"
5643	1611724.9840	468873.0540	OAK TREE	29"
5644	1611734.8780	468878.1110	CHERRY TREE	10"
5645	1611741.3300	468866.8960	OAK TREE	13"
5646	1611784.1530	468838.5710	OAK TREE	18"
5650	1611709.5620	468733.5910	OAK TREE	11"
5651	1611690.8710	468738.7370	OAK TREE	13 13 7"
5652	1611677.9080	468741.0420	OAK TREE	8"
5653	1611675.2280	468737.0510	OAK TREE	9"
5654	1611665.6830	468738.0880	OAK TREE	12"
5655	1611659.8020	468737.2280	OAK TREE	41"
5656	1611638.3120	468738.1420	OAK TREE	19"
5657	1611635.1360	468741.2610	OAK TREE	8"
5658	1611621.0390	468739.5390	OAK TREE	11"
5659	1611617.4350	468738.2480	OAK TREE	9"
5660	1611617.4880	468733.2350	OAK TREE	10"
5661	1611618.9520	468731.2750	OAK TREE	8"
5662	1611622.8550	468787.4440	OAK TREE	14"
5663	1611636.4540	468790.5230	OAK TREE	13"
5664	1611657.1760	468785.0260	OAK TREE	11"
5665	1611646.6070	468821.8690	OAK TREE	21"
5666	1611668.3510	468825.9680	OAK TREE	21"
5667	1611676.8640	468822.2160	OAK TREE	21"
5668	1611684.8830	468818.1940	OAK TREE	9"
5669	1611687.7460	468815.8210	OAK TREE	10"
5670	1611701.5820	468816.6410	OAK TREE	11"
5671	1611698.2530	468808.2540	OAK TREE	7"
5672	1611714.0410	468771.3240	OAK TREE	20"
5673	1611695.5690	468770.1870	OAK TREE	14"
5674	1611697.3350	468779.4120	OAK TREE	14"
5675	1611684.1000	468785.0040	OAK TREE	13"
5676	1611678.4900	468800.5340	OAK TREE	12"
5677	1611662.4510	468806.4230	OAK TREE	9"
5678	1611706.6610	468813.3280	OAK TREE	9"
5679	1611715.2600	468825.9940	OAK TREE	7"
5680	1611716.2420	468848.1800	OAK TREE	20"
5681	1611729.0380	468868.0050	OAK TREE	12"
5685	1611594.2280	468687.4230	OAK TREE	10"
5686	1611667.9900	468680.6250	CHERRY TREE	22"
5687	1611595.6730	468731.0420	OAK TREE	24"
5688	1611591.4370	468734.6930	OAK TREE	25"
5689	1611589.6150	468730.1170	OAK TREE	11"
5690	1611581.4100	468770.4220	OAK TREE	40 13"
5691	1611582.8130	468775.8750	OAK TREE	9"
5692	1611550.7680	468768.4460	OAK TREE	19"
5693	1611556.8090	468802.8650	OAK TREE	29"
5694	1611583.1520	468817.4420	OAK TREE	20 12 11"
5695	1611613.5210	468857.2280	OAK TREE	20 12 11"
5696	1611640.5220	468858.5210	OAK TREE	11"
5697	1611637.9350	468871.3100	OAK TREE	17"
5698	1611684.4710	468871.0390	OAK TREE	12"
5699	1611683.8350	468862.8200	OAK TREE	8"
5700	1611684.2610	468852.3650	OAK TREE	9"
5701	1611691.6050	468885.3310	OAK TREE	7"
5702	1611686.1800	468923.3540	OAK TREE	31"
5703	1611701.0770	468957.9430	OAK TREE	23"
5704	1611726.2390	468989.9520	OAK TREE	22"
5705	1611725.2140	468997.1690	OAK TREE	10"
5706	1611733.6660	469005.8690	OAK TREE	16"
5707	1611755.9950	469000.1380	OAK TREE	24"
5708	1611741.5940	468981.3900	OAK TREE	7 7"
5709	1611751.7790	468971.1680	OAK TREE	14 7"
5710	1611744.7700	468968.7500	OAK TREE	13"
5711	1611667.1100	468935.4800	OAK TREE	6"
5712	1611639.2780	468913.6050	OAK TREE	8"
5713	1611630.9300	468968.1330	PINE TREE	7"
5714	1611636.4840	468916.0550	CEDAR TREE	8"
5715	1611626.2100	468915.8060	OAK TREE	11"
5716	1611648.0620	468913.0850	OAK TREE	14"
5717	1611661.5820	468901.1820	OAK TREE	17"
5718	1611657.9080	468896.2990	OAK TREE	14"
5719	1611605.5400	468892.1430	PINE TREE	7"
5720	1611606.7700	468907.1130	OAK TREE	7"
5721	1611589.6370	468901.8960	OAK TREE	32"
5722	1611575.4810	469003.6040	PINE TREE	11"
5723	1611592.8380	469008.2650	PINE TREE	10"
5724	1611549.7980	468999.2200	OAK TREE	10"
5725	1611537.1440	469002.8520	OAK TREE	13"
5726	1611535.3290	468990.6340	PINE TREE	6"
5727	1611527.1830	468953.6150	OAK TREE	7"
5728	1611540.5430	468856.7690	OAK TREE	14"
5729	1611514.1220	468868.8960	OAK TREE	11"
5730	1611511.4470	468787.3650	OAK TREE	17 9"
5731	1611435.0300	468739.1350	OAK TREE	15"
5732	1611461.2460	468739.9050	OAK TREE	13 13"
5733	1611468.0000	468741.0790	OAK TREE	11"
5734	1611499.6140	468739.3680	OAK TREE	22"
5735	1611512.9390	468731.7970	OAK TREE	6"
5736	1611518.3500	468733.9920	OAK TREE	7 7"
5737	1611517.1060	468738.5580	CHERRY TREE	7"
5741	1611325.2620	468561.6650	OAK TREE	43"
5742	1611313.5240	468563.1570	OAK TREE	9"
5743	1611307.4770	468566.5200	OAK TREE	9"
5744	1611284.1530	468538.5710	OAK TREE	18"
5745	1611296.1010	468532.4800	OAK TREE	8"
5746	1611306.2460	468534.7490	OAK TREE	13"
5747	1611.314.8530	468536.1370	OAK TREE	6"
5748	1611306.7810	468530.2610	OAK TREE	9"
5749	1611299.2440	468524.0640	OAK TREE	27"
5750	1611288.8270	468501.4940	OAK TREE	25"
5751	1611284.0300	468503.0190	CHERRY TREE	7"
5752	1611291.1310	468498.5490	CHERRY TREE	7"
5753	1611272.7880	468477.6120	OAK TREE	18"
5754	1611304.6560	468483.3640	OAK TREE	18"
5755	1611300.4820	468478.1790	OAK TREE	14"
5756	1611300.6870	468471.9410	OAK TREE	8"
5757	1611305.3840	468460.1220	OAK TREE	8"
5758	1611301.2810	468454.0440	OAK TREE	7"
5759	1611.318.3470	468453.2080	OAK TREE	17"
5760	1611321.4770	468453.8550	OAK TREE	11"
5761	1611.316.1110	468442.1370	CHERRY TREE	12"
5762	1611324.8740	468449.6590	CHERRY TREE	7"
5763	1611332.0750	468456.3150	CHERRY TREE	11"
5764	1611317.1960	468474.1240	CHERRY TREE	14"
5765	1611327.1500	468498.0380	CHERRY TREE	12"
5766	1611312.2940	468503.4860	OAK TREE	25"
5767	1611320.9930	468504.0890	OAK TREE	8"
5768	1611321.2040	468507.3570	OAK TREE	8"
5769	1611320.5740	468513.1770	OAK TREE	18"
5770	1611324.3490	468528.1800	OAK TREE	7"
5771	1611332.4710	468519.5500	OAK TREE	7"
5772	1611342.6140	468520.2020	OAK TREE	18"
5773	1611340.2390	468521.8500	CHERRY TREE	8"
5774	1611356.6580	468524.9350	CHERRY TREE	16"
5775	1611348.5720	468528.2090	OAK TREE	9"
5776	1611.377.0570	468502.8620	OAK TREE	16"
5777	1611385.3150	468498.4960	OAK TREE	18"
5778	1611380.7530	468486.7730	OAK TREE	9"
5779	1611.375.1070	468470.0990	"TREE 7"	
5780	1611400.0600	468516.6130	CHERRY TREE	10"
5781	1611404.8200	468513.1480	OAK TREE	8"
5782	1611478.5120	468521.7930	OAK TREE	7"
5783	1611482.2590	468521.1810	OAK TREE	19"
5784	1611482.2330	468523.9330	OAK TREE	6"
5785	1611476.0270	468526.8690	OAK TREE	10"
5786	1611470.2050	468527.1280	OAK TREE	12 7"
5787	1611470.6020	468843.0840	OAK TREE	10 6"
5788	1611458.7250	468845.6330	OAK TREE	13"

TREE #	NORTHING	EASTING	TYPE	SIZE
5789	1611435.9180	468866.3680	OAK TREE	18"
5790	1611440.3040	468869.6990	OAK TREE	13"
5791	1611479.0290	468906.1480	OAK TREE	11"
5792	1611480.8170	468920.0890	OAK TREE	6"
5793	1611454.0750	468935.7350	OAK TREE	16 7"
5794	1611448.9990	468940.4540	OAK TREE	8"
5795	1611445.7680	468916.2910	OAK TREE	11"
5796	1611427.7480	468918.3350	OAK TREE	10"
5797	1611426.9100	468932.3300	OAK TREE	22"
5798	1611398.7530	468936.1350	OAK TREE	10"
5799	1611445.9300	468945.1010	OAK TREE	8"
5800	1611466.4050	468929.9450	OAK TREE	18"
5801	1611493.1780	468961.3350	OAK TREE	7"
5802	1611507.0300	468976.5670	OAK TREE	18"
5803	1611439.3990	468982.6370	OAK TREE	22"
5804	1611.350.4910	469003.7040	OAK TREE	9"
5805	1611428.1640	468876.2180	OAK TREE	9"
5806	1611406.8770	468944.9900	OAK TREE	14"
5807	1611415.2070	468827.6480	OAK TREE	8"
5808	1611437.0130	468816.5080	OAK TREE	13"
5812	1611362.3210	468791.6050	OAK TREE	13"
5813	1611366.2360	468749.1900	OAK TREE	21"
5814	1611345.5490	468744.8830	OAK TREE	24 12"
5815	1611.329.8630	468818.8300	OAK TREE	13"
5816	1611.315.8760	468861.3160	OAK TREE	14"
5817	1611.311.7500	468859.5940	OAK TREE	6"
5818	1611.322.7310	468865.7930	OAK TREE	9"
5819	1611.328.8430	468881.0690	OAK TREE	11"
5820	1611.336.8200	468873.9320	OAK TREE	9"
5821	1611.322.8750	468874.2610	OAK TREE	11"
5822	1611.376.9850	468877.9760	PINE TREE	10"
5824	1611.385.2170	468904.6670	OAK TREE	14"
5825	1611.389.0270	468924.9280	OAK TREE	15"
5826	1611.415.6980	468953.3970	OAK TREE	21"
5826	1611.496.9630	468928.2260	OAK TREE	15"
5827	1611.494.5850	468918.1990	OAK TREE	11 11 10"
5828	1611.508.1580	468920.4480	OAK TREE	11"
5829	1611.402.4050	469045.6860	OAK TREE	11"
5830	1611.435.2590	469045.9310	OAK TREE	6"
5831	1611.425.8000	469068.4970	OAK TREE	9"
5832	1611.455.5440	469068.2260	OAK TREE	6"
5833	1611.438.5190	469080.6820	OAK TREE	11"
5834	1611.454.3700	469082.5010	OAK TREE	12"
5835	1611.430.5790	469078.2430	OAK TREE	7"
5836	1611.425.6590	469075.2070	OAK TREE	22"
5837	1611.411.6310	469063.9890	PINE TREE	6"
5838	1611.380.5700	469091.2270	PINE TREE	14"
5839	1611.353.8010	469091.2650	OAK TREE	14"
5840	1611.388.9880	469125.5050	OAK TREE	12"
5841	1611.370.1910	469134.0670	OAK TREE	14"
5842	1611406.9330	469107.1290	OAK TREE	8"
5843	1611.413.4220	469113.2470	PINE TREE	10"
5844	1611421.7020	469125.7140	PINE TREE	15"
5845	1611.428.3310	469147.8530	PINE TREE	15"
5846	1611427.8220	469151.1110	PINE TREE	8"
5847	1611416.1420	469164.5530	OAK TREE	14"
5848	1611.404.7610	469162.3550	PINE TREE	7"
5849	1611404.7620	469138.0070	OAK TREE	6"
5850	1611.388.8500	469091.1970	OAK TREE	16"
5851	1611.362.3180	469058.8400	OAK TREE	7"
5852	1611.357.1760	469049.4520	OAK TREE	21"
5853	1611.365.8700	469040.6860	OAK TREE	14 14 11 9"
5854	1611.360.6490	469036.3160	OAK TREE	9"
5855	1611.376.8470	468984.3190	OAK TREE	9"
5856	1611.372.1940	468974.1740	OAK TREE	10"
5857	1611.378.3980	468973.7980	OAK TREE	30"
5858	1611.383.0970	468944.3910	OAK TREE	12 8"
5859	1611.373.7470	468931.9380	OAK TREE	12"
5860	1611.362.0170	468948.9140	OAK TREE	12"
5861	1611.350.9300	468955.4230	OAK TREE	16"
5862	1611.356.3940	468956.7530	OAK TREE	15"
5863	1611.357.1530	468967.8800	OAK TREE	21"
5864	1611.350.7790	468942.3080	OAK TREE	19"
5865	1611.342.3290	468943.3360	OAK TREE	19"
5866	1611.343.0020	468951.4900	OAK TREE	19"
5867	1611.331.7830	468946.2840	OAK TREE	17"
5868	1611.342.5390	468943.0350	OAK TREE	8"
5869	1611.344.1360	468927.4630	OAK TREE	7"
5870	1611.338.5460	468921.0780	OAK TREE	15"
5871	1611.314.9880	468912.8210	OAK TREE	15"
5872	1611.324.8910	468901.1310	OAK TREE	12"
5873	1611.314.3650	468900.4390	OAK TREE	8"
5874	1611.297.8040	468898.0120	OAK TREE	13"
5875	1611.291.3480	468901.9650	OAK TREE	12"
5876	1611.296.4840	468833.9170	OAK TREE	11"
5877	1611.304.5420	468832.7780	OAK TREE	11"
5880	1611.305.7330	468820.0640	OAK TREE	10"
5881	1611.305.3600	468804.6300	OAK TREE	10 6"
5882	1611.307.2200	468787.6650	OAK TREE	21 17"
5883	1611.264.9670	468791.7280	OAK TREE	16"
5884	1611.240.3670	468796.8900	OAK TREE	24"
5885	1611.215.1190	468769.0900	OAK TREE	14"
5886	1611.224.8910	468793.2480	OAK TREE	18"
5887	1611.222.3940	468793.0460	PINE TREE	24"
5888	1611.221.3350	468817.3030	OAK TREE	14"
5889	1611.213.5310	468825.8470	OAK TREE	11"
5890	1611.215.4760	468808.0340	OAK TREE	6"
5891	1611.280.9910	468861.1680	OAK TREE	13"
5892	1611.287.7410	468858.1150	OAK TREE	9"
5893	1611.261.0990	468882.6250	OAK TREE	11"
5894	1611.250.3570	468878.0310	OAK TREE	10 7 7"
5895	1611.250.0100	468873.9420	OAK TREE	13"
5896	1611.250.3080	468861.4360	OAK TREE	6"
5897	1611.250.1200	468859.7400	OAK TREE	8"
5898	1611.242.1270	468878.1430	OAK TREE	13"
5899	1611.248.8160	468883.5100	OAK TREE	8"
5900	1611.262.1030	468901.6700	OAK TREE	6"
5901	1611.267.5420	468898.6390	OAK TREE	6"
5902	1611.267.1990	468908.4680	OAK TREE	12"
5903	1611.247.5940	468908.0030	OAK TREE	6"
5904	1611.241.2110	468926.2250	OAK TREE	7"
5905	1611.236.8370	468923.2450	OAK TREE	19"
5906	1611.235.5020	468933.5570	OAK TREE	20"
5907	1611.266.9790	468926.5080	OAK TREE	11"
5908	1611.285.9680	468941.7500	OAK TREE	7"
5909	1611.304.7820	468963.2290	OAK TREE	8"
5910	1611.278.5520	468961.7040	PINE TREE	11"
5911	1611.227.0440	468966.3750	OAK TREE	16"
5912	1611.205.3820	468988.6360	OAK TREE	14"
5913	1611.241.3480	469018.5650	OAK TREE	12"
5914	1611.203.7290	468965.4810	OAK TREE	10"
5915	1611.199.7180	468965.3760	OAK TREE	6"
5916	1611.216.3220	468890.1270	OAK TREE	9"
5917	1611.221.7650	468870.0730	OAK TREE	11"
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5919	1611.210.5370	468848.4200	OAK TREE	8"
5920	1611.252.2910	468746.9090	OAK TREE	6"
5921	1611.259.6260	468745.7870	OAK TREE	10"
5922	1611.267.6250	468748.9790	OAK TREE	17"
5923	1611.261.3490	468743.6330	OAK TREE	9"
5924	1611.258.8540	468742.5750	OAK TREE	8"
5925	1611.250.7130	468743.1240	OAK TREE	9"
5926	1611.246.8960	468743.6250	OAK TREE	8"
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5929	1611.226.1460	468739.1580	OAK TREE	13"
5930	1611.247.1610	468729.3930	OAK TREE	8"
5931	1611.252.7010	468731.7310	OAK TREE	9 7"
5932	1611.261.1500	468732.2210	OAK TREE	9"
5937	1612.759.7580	468036.9410	CHERRY TREE	11"
5938	1612.833.7970	468033.6170	CHERRY TREE	19"
5939	1612.853.8570	468112.8730	OAK TREE	13"
5940	1612.109.7300	468161.5000	OAK TREE	15 13"
5941	1612.135.2590	468143.2510	OAK TREE	9"
5942	1612.935.1400	467735.3280	CHERRY TREE	14"
5943	1612.983.5940	467736.5930	CHERRY TREE	14"
5944	1612.785.8930	467712.5530	CHERRY TREE	10"
5945	1612.760.8380	467736.6850	CHERRY TREE	13"
5946	1612.783.7460	467760.9560	CHERRY TREE	12"
5947	1612.786.0910	467787.3820	OAK TREE	29"
5948	1612.788.7260	467804.5400	CHERRY TREE	18"
5949	1612.755.9320	467864.0650	CHERRY TREE	15"
5950	1612.729.9800	467823.2710	PINE TREE	9"
5951	1612.692.9310	467810.1690	OAK TREE	30"
5952	1612.635.7530	467788.5510	CHERRY TREE	13"
5953	1612.610.4700	467663.2970	CHERRY TREE	15"
5954	1612.565.9750	467570.6600	CHERRY TREE	9"
5955	1612.536.2820	467588.9500	CHERRY TREE	10"
5956	1612.512.1250	467614.3330	CHERRY TREE	13"
5957	1612.534.0180	467663.2980	CHERRY TREE	13"
5958	1612.580.0000	467693.7880	CHERRY TREE	14"
5959	1612.511.5230	467738.8380	CHERRY TREE	18"
5960	1612.385.0260	467591.3560	OAK TREE	37"
5961	1612.289.1090	467642.8740	OAK TREE	26"
5962	1612.336.2750	467770.2080	CHERRY TREE	14"
5963	1612.227.4110	467798.5030	OAK TREE	32"
5964	1612.235.5270	467867.5940	OAK TREE	41"
5965	1612.277.0430	467873.5600	OAK TREE	41"
5966	1612.064.9730	467856.7180	OAK TREE	18"
5967	1612.060.8130	467934.4890	CHERRY TREE	15"
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5970	1612.411.2290	467963.5730	CHERRY TREE	13"
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5974	1612.551.7410	467808.1790	CHERRY TREE	10"
5975	1612.659.4130	467860.6650	CHERRY TREE	11"
5976	1612.661.3340	467885.7280	CHERRY TREE	18"
5977	1612.686.2370	467916.6190	CHERRY TREE	11"
5978	1612.711.0310	467961.7930	CHERRY TREE	11"
5979	1612.711.5010	467985.9330	CHERRY TREE	13"
5980	1612.763.7180	467962.5830	CHERRY TREE	11"
5981	1612.761.3140	467940.3240	CHERRY TREE	12"
5982	1612.560.7430	467939.2870	CHERRY TREE	11"
5983	1612.561.3550	468013.5890	CHERRY TREE	9"
5984	1612.485.3200	468069.2250	OAK TREE	20"

TREE #	NORTHING	EASTING	TYPE	SIZE
6092	1612.649.3270	467411.8250	OAK TREE	6 6"
6093	1612.641.4150	467402.5220	OAK TREE	18"
6094	1612652.1200	467396.4410	OAK TREE	25"
6095	1612631.9090	467424.2430	OAK TREE	7"
6096	1612650.7220	467453.1930	OAK TREE	10"
6097	1612590.6120	467405.1730	OAK TREE	17"
6098	1612605.1800	467402.8540	OAK TREE	11"
6099	1612596.3850	467435.4090	OAK TREE	23 12"
6100	1612.597.9720	467433.4430	OAK TREE	16"
6101	1612535.5690	467463.0300	CHERRY TREE	6"
6102	1612.567.2400	467474.6500	OAK TREE	10"
6106	1612.433.5460	467487.2990	CHERRY TREE	11"
6107	1612463.2600	467490.1710	CHERRY TREE	7"
6108	1612484.4970	467489.1340	OAK TREE	8"
6109	1612.465.9540	467442.2040	OAK TREE	22"
6110	1612.491.6060	467439.9580	CHERRY TREE	6"
6111	1612439.9350	467436.7180	OAK TREE	33"
6112	1612.438.8530	467442.5400	OAK TREE	13"
6113	1612575.4400	467405.7950	CHERRY TREE	8"
6114	1612573.1290	467405.3630	OAK TREE	12"
6115	1612570.4940	467394.1210	OAK TREE	17"
6116	1612.538.7550	467425.7040	OAK TREE	8"
6117	1612553.7010	467420.3220	OAK TREE	8"
6118	1612525.7190	467412.8580	OAK TREE	9"
6122	1612329.1050	467375.2960	PINE TREE	9"
6123	1612312.5750	467435.1180	OAK TREE	13"
6124	1612.886.5580	469028.5440	OAK TREE	27"
6125	1612277.6250	467452.3580	OAK TREE	16"
6126	1612283.0950	467425.0230	CHERRY TREE	10 8"
6127	1612253.0240	467507.9380	OAK TREE	16"
6128	1612233.8910	467515.9680	CHERRY TREE	13"
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6140	1611666.7130	467477.7300	CHERRY TREE	9"
6141	1611541.2700	467500.3600	CHERRY TREE	11"
6142	1611534.7700	467501.4960	OAK TREE	35"
6143	1611536.6240	467533.1000	CHERRY TREE	11"
6144	1611364.4030	467532.0140	CHERRY TREE	13"
6145	1611364.1110	467528.8860	OAK TREE	38"
6146	1611387.0580	467608.5030	CHERRY TREE	12"
6147	1611440.3960	467631.3940	OAK TREE	35"
6148	1611498.8500	467709.4350	OAK TREE	60"
6149	1611394.0870	467806.7930	OAK TREE	24"
6150	1611561.7190	467856.1600	OAK TREE	31"
6151	1611740.8960	467956.8270	CHERRY TREE	9"
6152	1611841.8920	468003.8180	OAK TREE	33"
6153	1611864.4600	468107.3540	CHERRY TREE	13"
6154	1611858.1170	468107.2980	CHERRY TREE	14"
6155	1611913.5620	468160.0640	OAK TREE	24"
6156	1612017.7350	467679.7600	CHERRY TREE	14"
6157	1612004.2270	467669.2350	OAK TREE	16"
6158	1611996.1330	467654.5870	OAK TREE	28"
6159	1611958.8420	467638.4400	OAK TREE	16"
6160	1612018.7060	467643.9460	OAK TREE	21"
6161	1612018.3590	467456.5060	CHERRY TREE	8"
6162	1612013.7250	467458.8000	CHERRY TREE	20"
6163	1612045.5390	467460.5890	CHERRY TREE	10"
6164	1611892.8240	467458.4140	CHERRY TREE	15"
6165	1611767.8350	467680.9970	OAK TREE	25"
6166	1611815.9250	467730.9180	OAK TREE	22"
6170	1611089.5270	467480.5620	OAK TREE	31"
6171	1611259.3900	467426.8530	OAK TREE	7"
6172	1611240.1870

Crossroads at Kelly Park

4 Phase 1-2, 1-3 & 2: Master Infrastructure and Mass Grading Construction Site Plans

COMMUNITY LANDSCAPE ARCHITECTURE

Prepared For:

G&B Development Services, LLC

APOPKA, FLORIDA

DEVELOPER / OWNER:
G&B DEVELOPMENT SERVICES, LLC
121 Snell Isle Blvd.
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SPADE IRRIGATION DESIGN
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Maitland, FL 32751
Contact: Brad Pascarella, P.E., LEED AP
phone:407.740.5020

STRUCTURAL ENGINEER:
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1673 Lake Baldwin Lane
Orlando, FL 32814
Contact: Bjarne Madsen, P.E.
phone: 407.252.4225

Applicable Codes, Regulations, Ordinances and Standards

Florida Building Code - (FBC-B), 7th edition (2020)
Florida Building Code - Accessibility (FBC-A), 7th edition (2020)
Florida Fire Prevention Code, (FFPC) 7th Edition which includes:
2018 NFPA 1 Uniform Fire Code
2018 NFPA 101 Life Safety Code
Florida Fuel Gas Code, 2020 (FFGC)
Construction Type: V-B (Pergolas)
Occupancy Type: A-3
Height: Maximum allowable: 40'-0"
Provided: xx
S.F.: Maximum Allowable: 6,000 S.F.
Provided: xx
Stories: Maximum Allowable: 1
Provided: 1
City of Apopka

811 Know what's below. Call before you dig.



LOCATION MAP
not to scale

SHEET INDEX:

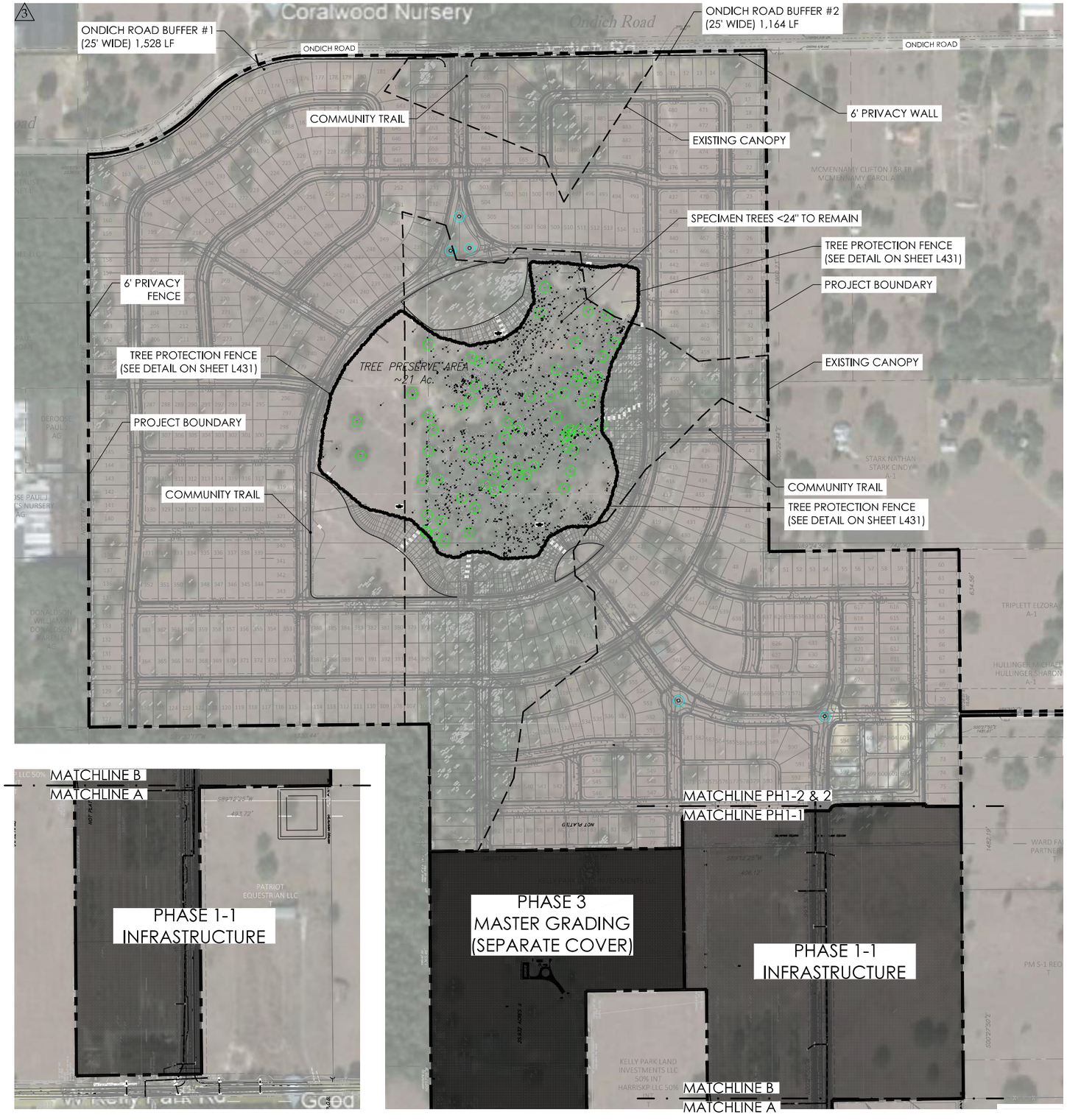
	L000	*COVER SHEET*
3	*L100*	*TREE MITIGATION PLAN*
	L200	*OVERALL LAYOUT PLAN*
4	*L201*	*LAYOUT PLAN*
	L202	*LAYOUT PLAN*
	L301	*HARDSCAPE DETAILS*
4	*L302*	*HARDSCAPE DETAILS*
	L400	*OVERALL LANDSCAPE PLAN*
	L401-L407	*LANDSCAPE PLAN*
	L410	*PLANTING SCHEDULES*
	L411	*LANDSCAPE DETAILS & NOTES*
	L412	*LANDSCAPE DETAILS & NOTES*
	L500	*OVERALL IRRIGATION PLAN*
	L501-L507	*IRRIGATION PLAN*
	L510	*IRRIGATION LEGEND, DETAILS & NOTES*
	E101-E109	*SITE PHOTOMETRICS*
	E301	*LIGTH FIXTURE CUTSHEETS*

Rev 4 August 7, 2023
Rev 3 June 02, 2023
Rev 2 May 08, 2023
Rev 1 April 3, 2023
December 21, 2022

2022.144

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407.622.1588 voice
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Z:\SHARED (BONNETT DESIGN GROUP 2020)\2022.144_G&B DEVELOPMENT-KELLY PARK OPEN SPACE & AMENITY\DESIGN\2022.144_G&B DEVELOPMENT-KELLY PARK OPEN SPACE & AMENITY_TREE CALCS_PH1-2 & 2.DWG



CODE REQUIREMENTS & CALCULATIONS

Canopy Requirement			
Existing Canopy	2,054,080	47.16 acres	23% of net site area

*per section 5.3.7 Retention of Existing Canopy

Tree Requirement (Maximum Tree Stock Calcs.)		
Net Site Area	7,183,044	(164.90 Acres)
Trees Required	898	1 Tree per 8,000 sf of Net Site Area
Trees Provided	2,764	670 Lots @ 3" DBH Street Trees @ 3 " DBH 240 Common & Open Space @ 3" DBH

*per section 5.3.7 Tree Survey

Tree Replacement Table-Total Inches Post Development		
Trees		Inches
	Total Replacement DBH Required	20,119
1,237	Proposed street trees at 3" DBH inch 40' on center in R.O.W.	3,711
154	Proposed trees at 3" DBH inch (One on each 40 ft. Residential Lot*)(154 lots)	462
1,032	Proposed trees at 3" DBH inch (Two on each 52 ft. Residential Lot*)(516 lots)	3,096
341	Proposed trees at 2.5"-3" DBH in open space, buffers and common area, refer to plant list	1,539
2,764	**Total Replacement Provided**	**8,808**
	Total Surplus from Ph1-1 Provided	**1,426**
	*Trees will be provided at time of individual residential lot development.	

3 *use surplus of provided inches from PH1-1 to mitigate deficiency shown for PH1-2 & 2.

*per section 5.3.7 Retention of Existing Canopy

Tree Summary Table		
Total existing non-specimen tree inches on-site*	**22,297**	inches
Total existing specimen tree inches (≥24" DBH)	**10,865**	inches
Total existing tree inches	33,162	inches
Total non-specimen tree inches removed *	9,841	inches
Total specimen tree inches (≥24" DBH) removed	10,278	inches
Required total replacement tree inches	20,119	inches
Total non-specimen tree inches retained *	12,456	inches
Total specimen tree inches (≥24" DBH) retained	2,897	inches
Total tree inches retained	15,353	inches
Site clearing area in square feet and acres	7,976,172	sq. ft. (164 acres)
Maximum mitigation specimen: 24" DBH + 5" DBH/1,000 sf over 6000 s.f.	39,851	
	39,851	inches
Maximum mitigation non-specimen: 10" DBH + 3.5" DBH/1,000 sf over 6000 s.f.	27,896	
	27,896	inches

3

*per section 5.3.7 Tree Survey

LEGEND:

SPECIMEN TREE >/=24" TO REMAIN

LARGE TRANSPLANTED TREE OR 8" PLANTED CANOPY TREE

SCALE: 1" = 200'

0' 100' 200' 400'

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CROSSROADS AT KELLY PARK
Landscape Architecture
G&B Development Services, LLC
Apopka, Florida
TREE MITIGATION PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

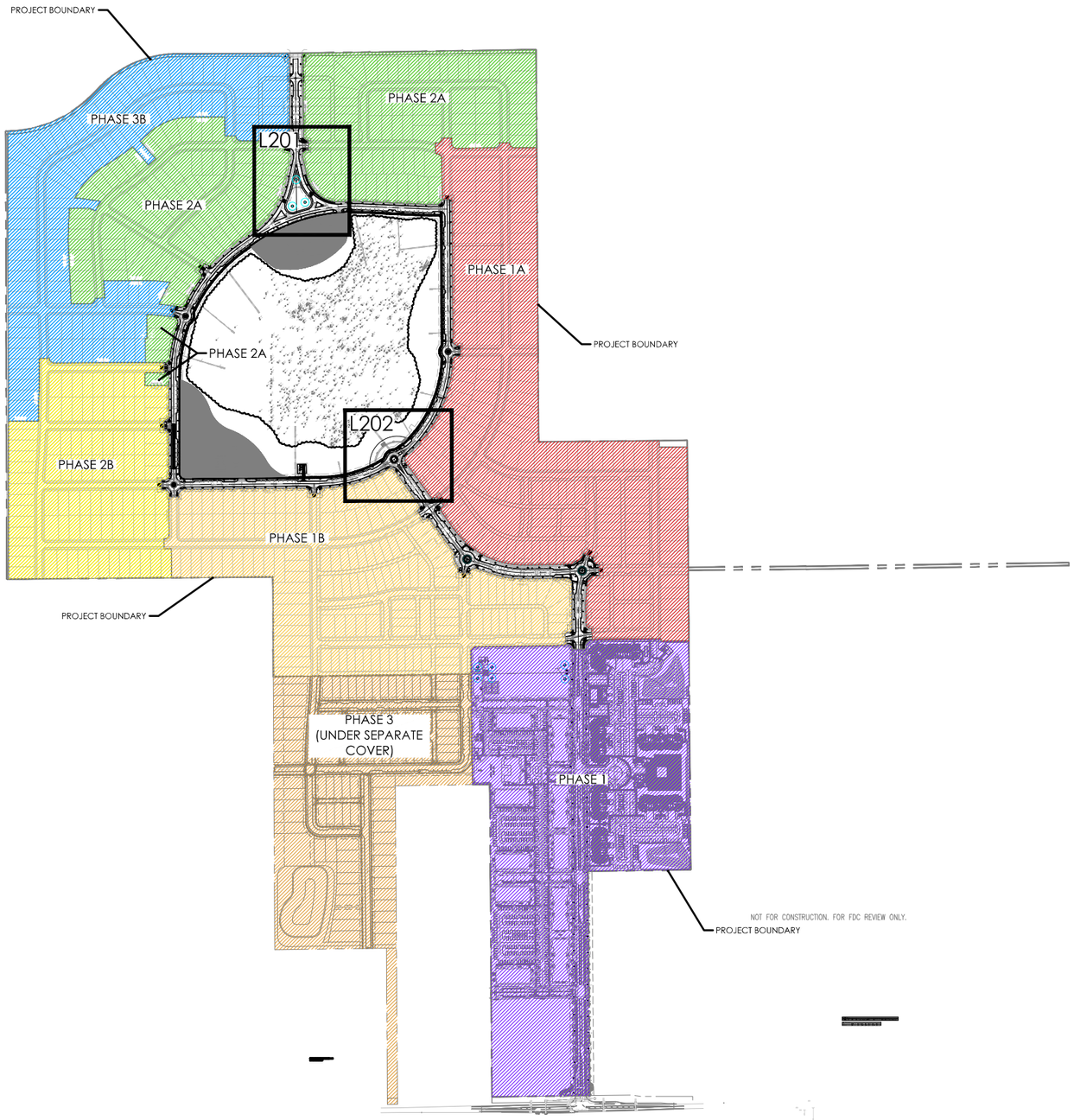
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CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME:

REVISIONS:
1 DRC Comments 04-03-2023
2 Tree App 04-13-2023
3 Updated Tree App 06-02-2023

Todd W. Bennett FLA # FL0005758

L100

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SCALE: 1" = 300'

0' 150' 300' 600'

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CROSSROADS AT KELLY PARK
Landscape Architecture
G&B Development Services, LLC
Apopka, Florida
OVERALL LAYOUT PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

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REVISIONS:
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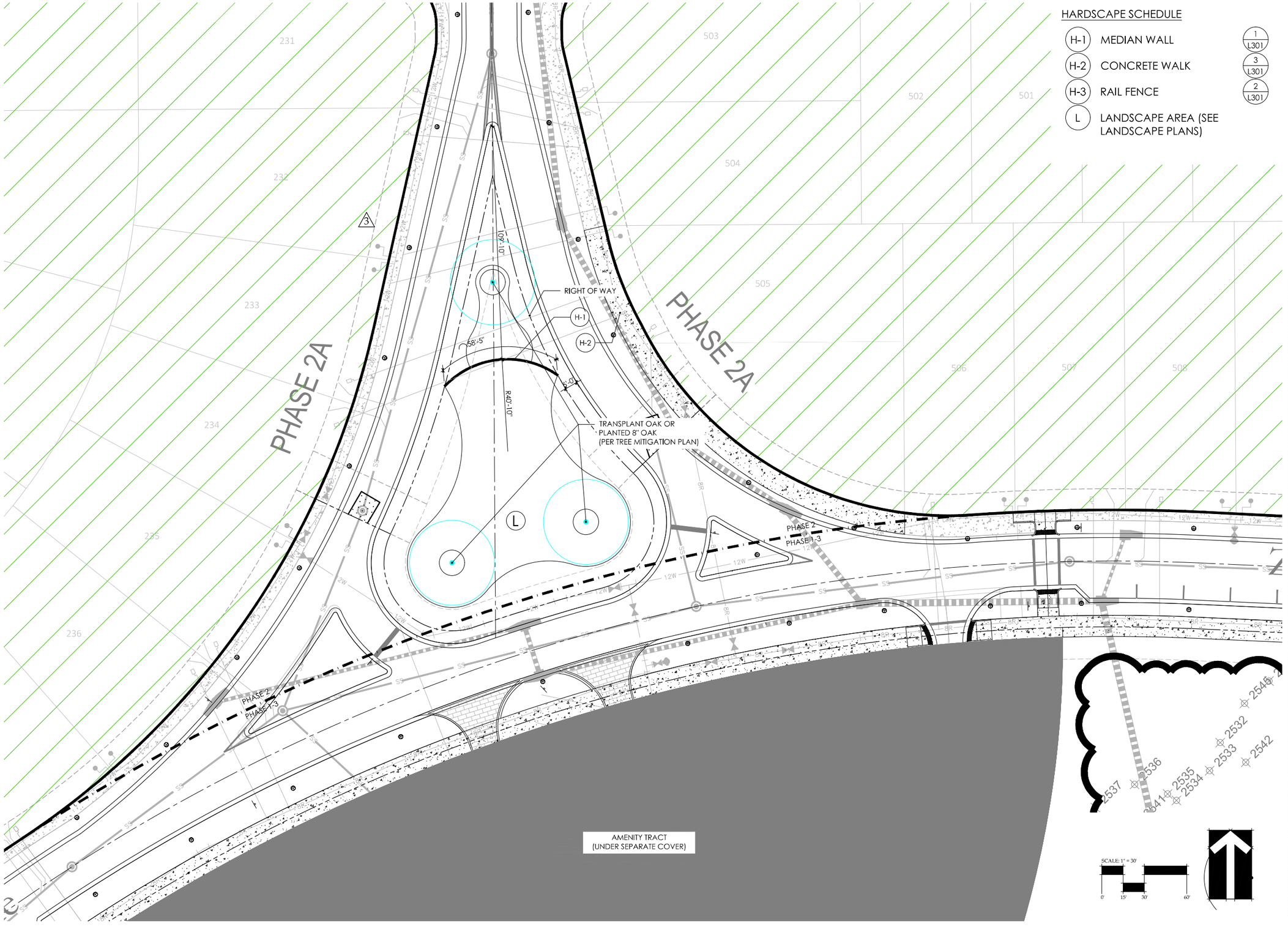
Todd W. Bonnett, ELA # FL0001274

L200

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HARDSCAPE SCHEDULE

H-1	MEDIAN WALL	1 / L301
H-2	CONCRETE WALK	3 / L301
H-3	RAIL FENCE	2 / L301
L	LANDSCAPE AREA (SEE LANDSCAPE PLANS)	



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CROSSROADS AT KELLY PARK
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G&B Development Services, LLC
Apopka, Florida
LAYOUT PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

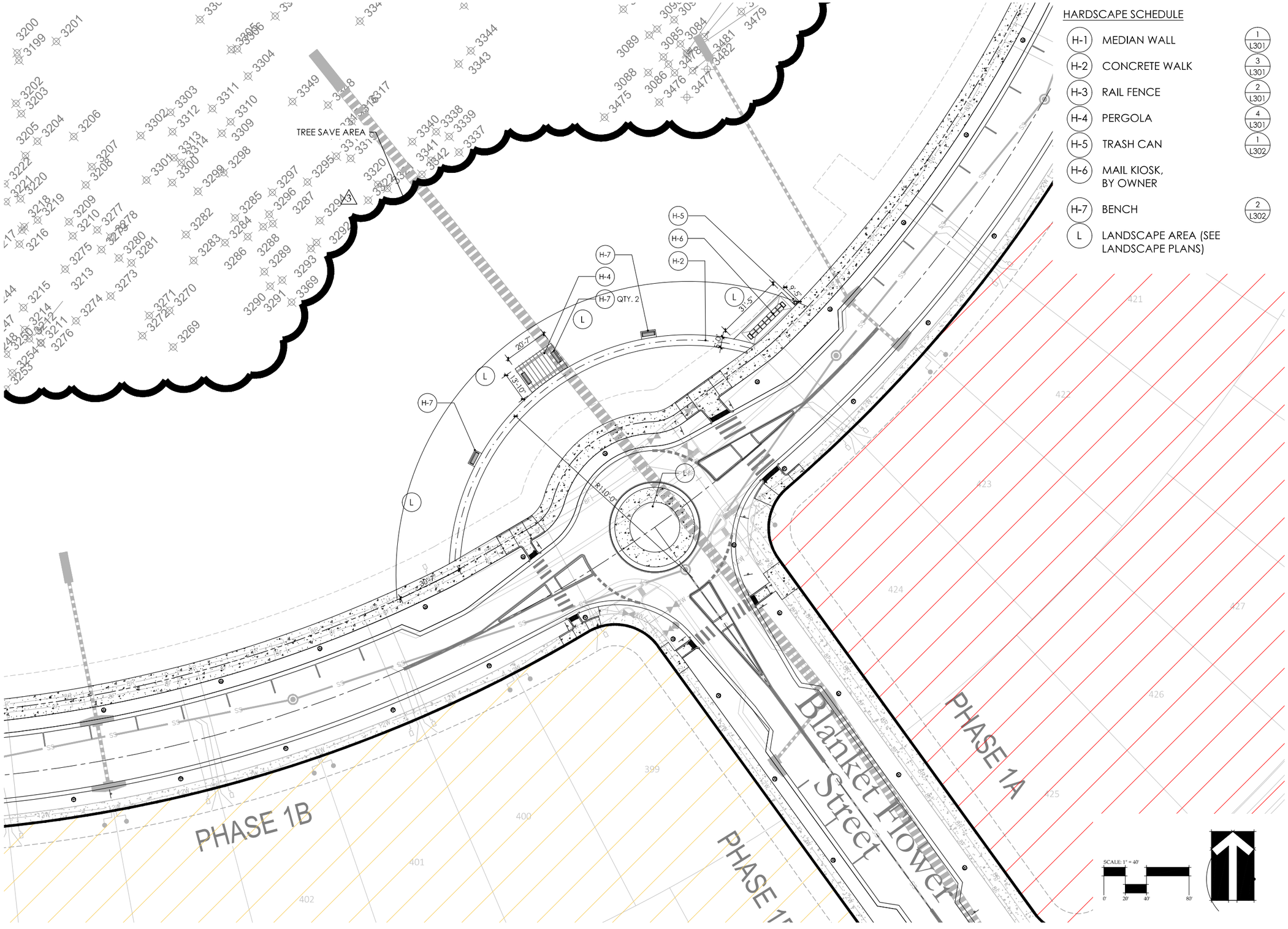
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REVISIONS:
1 DRC Comments 04-03-2023
2 Updated Tree App 06-02-2023

Todd W. Bonnett, RLA # FL0002716

L201

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HARDSCAPE SCHEDULE

H-1	MEDIAN WALL	1 / L301
H-2	CONCRETE WALK	3 / L301
H-3	RAIL FENCE	2 / L301
H-4	PERGOLA	4 / L301
H-5	TRASH CAN	1 / L302
H-6	MAIL KIOSK, BY OWNER	
H-7	BENCH	2 / L302
L	LANDSCAPE AREA (SEE LANDSCAPE PLANS)	

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Apopka, Florida
LAYOUT PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

DATE: December 21, 2022
DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME:

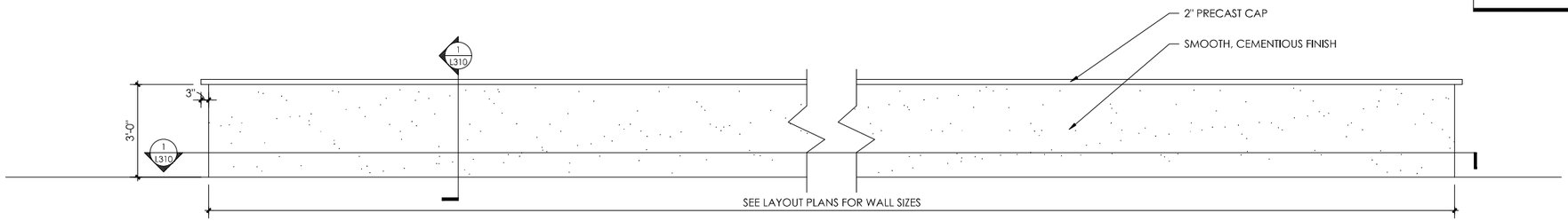
REVISIONS:
1 DRC Comments 04-03-2023
2 Updated Tree App 06-02-2023

Todd W. Bonnett, RLA # FLA0002734

L202

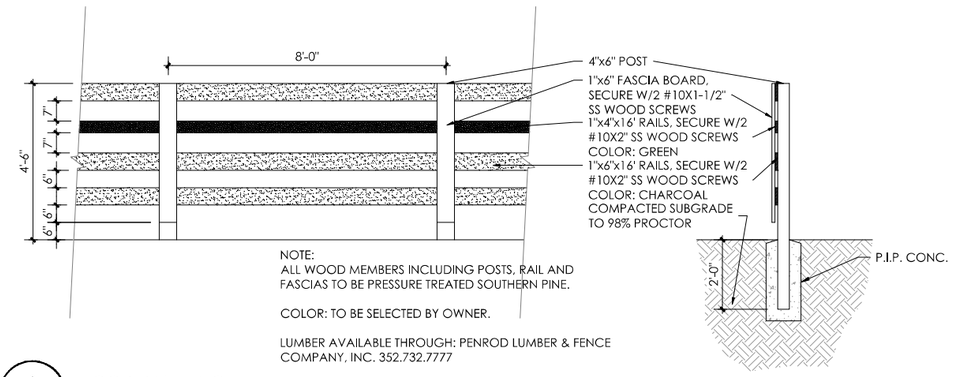
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NOTE: HARDSCAPE DESIGN PLANS PROVIDED TO DEMONSTRATE DESIGN INTENT ONLY AND ARE NOT VALID FOR CONSTRUCTION WITHOUT FINAL STRUCTURAL & REINFORCEMENT DESIGN.



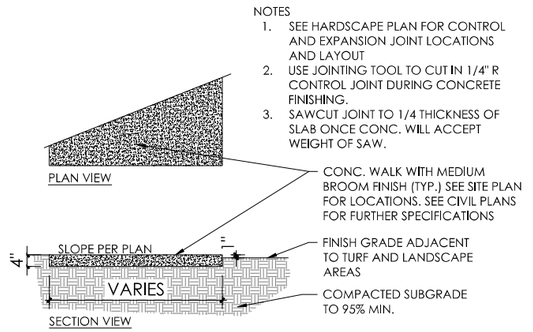
1 L301 MEDIAN WALL

SCALE: 1/2" = 1'-0"



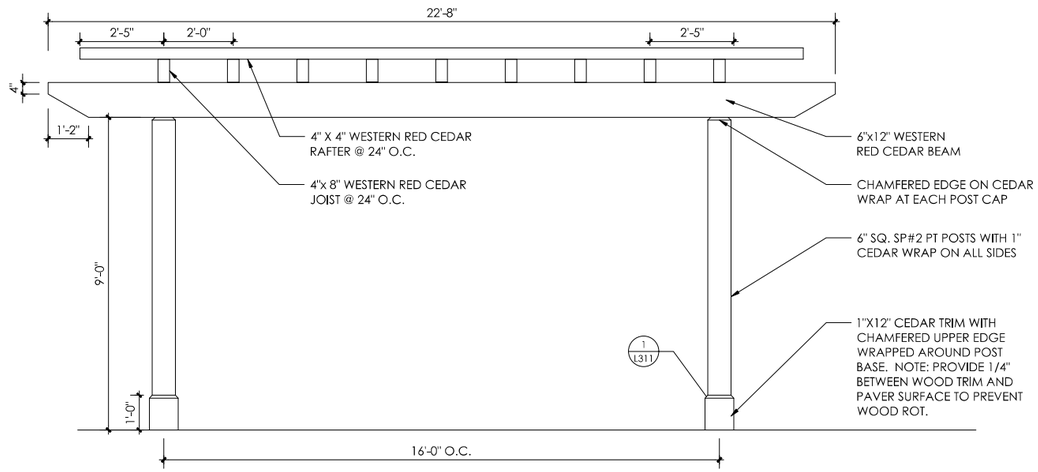
2 L301 WOOD RAIL FENCE

SCALE: 1/2" = 1'-0"



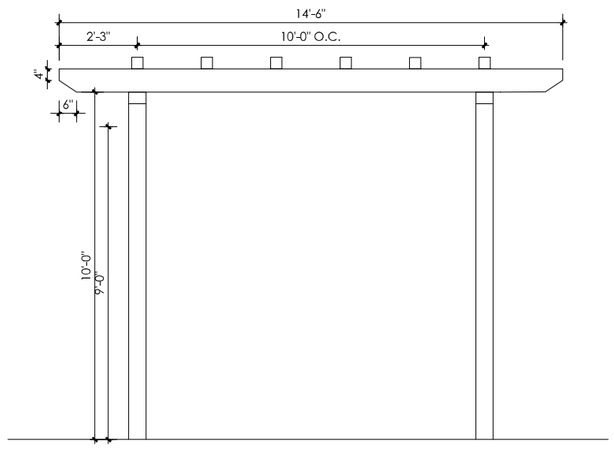
3 L301 CONCRETE WALK

SCALE 1/2" = 1'-0"



4 L301 PERGOLA FRONT ELEVATION

SCALE: 1/2" = 1'-0"



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CROSSROADS AT KELLY PARK
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G&B Development Services, LLC
Apopka, Florida
HARDSCAPE DETAILS

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

DATE: December 21, 2022
DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME: 2022\144 DEVELOPMENT\KELLY PARK OPEN SPACE & AMENITY_DESIGN\2022.144_C&B DEVELOPMENT-KELLY PARK OPEN SPACE & AMENITY_HARDSCAPE_PH1-2 & 2.DWG

REVISIONS:
1 DRC Comments 04-03-2023

Todd W. Bonnett FLA # FL0001776

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L301

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ANOVA

211 North Lindbergh Blvd.
St. Louis, MO 63141
800.231.1327 tel.| 314.754.0835 fax
specify@anovafurnishings.com
anovafurnishings.com

LEX33 — Exposition Receptacle/Recycler with Side Door

33-gallon steel slat receptacle with side door, bonnet top, plastic liner, rubber feet and optional decals (when specified)



Material
The receptacle is 42.11" tall and is composed of heavy-duty, 7-gauge steel front and back panels and 12-gauge steel side panels with a .75" gap horizontal slotted pattern. The receptacle features a built-in bonnet top with 7.63" tall by 23.30" wide front and back openings and 5.08" tall by 18" wide openings on the sides. The front door panel opens on a continuous geared hinge and comes standard with a tamper-resistant cam lock and set of two keys; also available with a keyless thumb-turn cam lock.
Optional decals are available: "Bottles/Cans" with recycling logo, "Mixed Recycling" with recycling logo, "Paper" with recycling logo or "Trash" decal—custom decals also available. Specify black or white lettering. Decal placement will be centered at the top of the door. Decals will be factory installed and must be specified at the time of order.
The receptacle is designed to be portable for flexibility in placement or surface mounted using pre-drilled holes inside base to prevent movement. The rubber feet are adjustable to assist in leveling the receptacle. The reusable plastic liner is made of high-density polyethylene. Mounting hardware is not included.

Finish
Fade-resistant, powder coated steel is protected by a state-of-the-art primer proven to prevent rusting. Treated components exceed the industry standard by 34% in testing by independent sources.

Color
See website or sales representative for color choices.

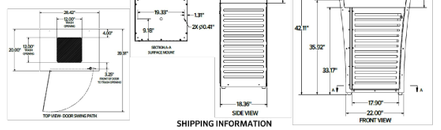
Assembly
The receptacle ships fully assembled and ready for use.

Maintenance
The product is virtually maintenance-free and requires only periodic cleaning with a sponge and a mild detergent and water solution to remove surface dirt. Do not clean with solvent or petroleum base products.

Warranty
20-year limited structural warranty with 7-year finish warranty against fading; 3-year finish warranty on powder coated steel components against rusting, peeling, chipping, cracking, mold, mildew and defects in materials and/or workmanship. See full details on multi-year warranties for components at www.anovafurnishings.com/warranty.

Replacement Parts

Black Plastic Liner	R-DOM2005
Trash Decal White	DEC2000
Trash Decal Black	DEC2002
Paper Decal w/Logo White	DEC2004
Paper Decal w/Logo Black	DEC2006
Bottles/Cans w/Logo White	DEC2008
Bottles/Cans w/Logo Black	DEC2010
Mixed Recycling w/Logo White	DEC5000
Mixed Recycling w/Logo Black	DEC5002



SHIPPING INFORMATION

Unit Weight	Unit Shipping Wt. UPS	Unit Shipping Wt. Truck (1+ Units)	Unit Ship Size w/Pallet	Max Units Per Pallet	Pallet Size/Wt. (32" x 48")	Total No. Pkgs.	Shipping Class
155 lbs.	N/A	168 lbs./unit	42.10 cu. ft.	1	50 lbs.	1	150

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NOTES

MANUFACTURER: Anova Furnishings
MODEL: AE2645CT-STX Airi Stix
COLOR: Gray
FINISH: Powder Coated
CONTACT: Cheryl Ronan, 407.572.3147

1 L302 TRASH RECEPTICLE (OR APPROVED EQUAL)

ANOVA

211 North Lindbergh Blvd.
St. Louis, MO 63141
800.231.1327 tel.| 314.754.0835 fax
specify@anovafurnishings.com
anovafurnishings.com

AL1980 — Allure Aluminum 6' Contour Bench

6' flat bench with aluminum planks and cast aluminum legs



Material
The 6' flat bench is composed of 1" x 2" extruded aluminum seat and back planks, cast aluminum legs and steel under supports. The bench can be all one color or give it a two-tone look with the middle planks in the seat featuring a contrasting color. The bench is 72.75" long and will support 200 lbs per linear foot.
The bench feet have pre-drilled .4" diameter holes for surface mounting to prevent movement.
Surface mounting is required; mounting hardware is not included.

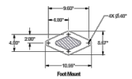
Finish
Rust-proof, fade-resistant, powder coated aluminum components.

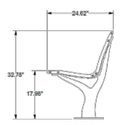
Color
See website or sales representative for color choices.

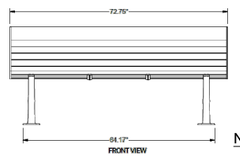
Assembly
The bench ships fully assembled and ready for use. Assembly includes stainless steel hardware.

Maintenance
The product is virtually maintenance-free and requires only periodic cleaning with a sponge and a solution of mild detergent and water to remove surface dirt. Do not clean with solvent or petroleum base products.

Warranty
20-year limited structural warranty with 7-year finish warranty against fading from the date of purchase. See full details on multi-year warranties for components at www.anovafurnishings.com/warranty.aspx.







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NOTES

MANUFACTURER: Anova Furnishings
MODEL: AE2680STX Airi Stix
COLOR: Green/Gray
FINISH: Powder Coating
CONTACT: Cheryl Ronan, 407.572.3147

2 L302 BENCH (OR APPROVED EQUAL)

HYDREL

ORDER NO.
NOTES
TYPE



PALM
12V/120V LED

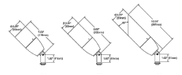
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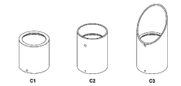
Weight:	3.0 lbs.
H:	7" (178mm) w/C1 8" (203mm) w/C2 10.31" (261.9mm) w/C3

HIGHLIGHTS
- The Palm Series accent lights are suitable for a variety of mounting applications including ground, wall, tree, sign and architectural accents
- Suitable for wet locations
- Integral driver for 120V
- Dimmable using standard TRIAC (forward-phase or leading-edge) and ELV (reverse phase or trailing-edge) dimmer for 120V and dimmable using standard MLV dimmer and magnetic transformer for 12V
- Tapered-sure lock
- Available in 80CRI and 90CRI
- 1,600lm

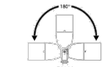
Buy American

DIMENSIONS





AIMING DETAILS

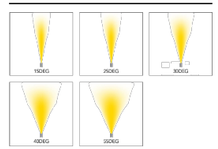


LUMEN PACKAGES

	1004LS	2000LS	2500LS	3000LS	4000LS	4500LS	5000LS	5500LS
Delivered Lumens	1,014	1,433	1,466	1400	1515	1491	1440	1455	1460
Watts	10	16	16	16	16	16	16	16	16
LPW	84	90	81	81	86	83	80	81	81
Peak Candela	12161	6,031	6,156	3986	3641	2761	2358	1681	1495

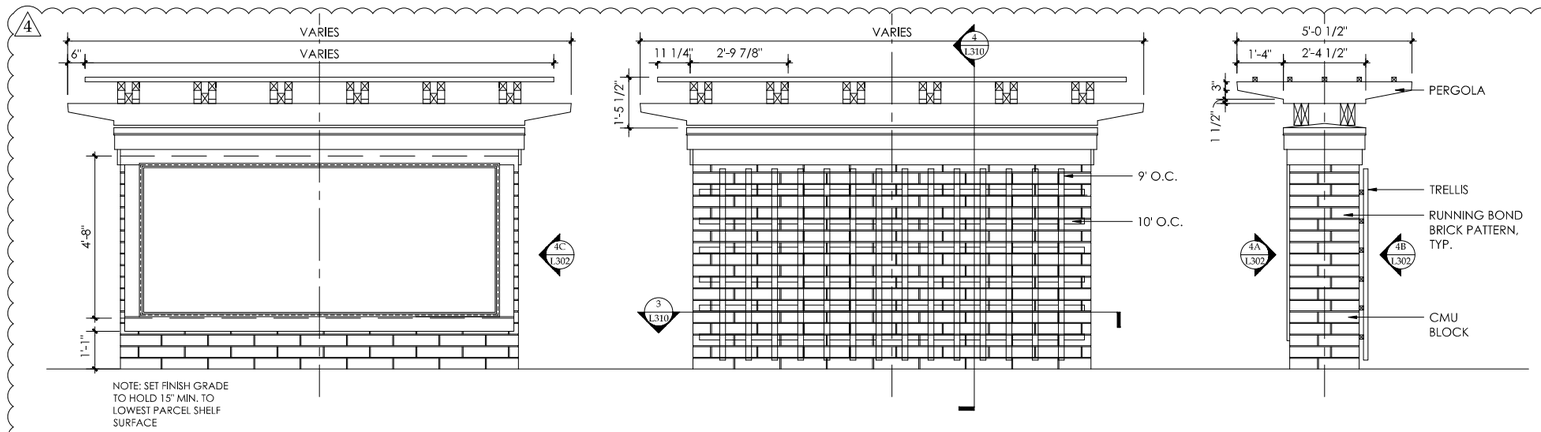
Note: Information based on 4000K @ 71, 80CRI, 120 Volt with C1 cap and FLC lens

STANDARD DISTRIBUTION



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Phone: 800-705-SERV (7378) • www.hydrel.com

3 L302 LANDSCAPE LIGHT



Ⓐ FRONT ELEVATION Ⓑ REAR ELEVATION Ⓒ SIDE ELEVATION

SCALE: 1/2" = 1'-0"

NOTES

MANUFACTURER: Salsbury Industries
MODEL: CBU 13D 1P
COLOR: Green
FINISH: Powder Coated
CONTACT: Philip Feigle, Maverick Building Solutions
p.205-704-9412

4 L302 MAIL KIOSK

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407.622.1588 voice

CROSSROADS AT KELLY PARK
Landscape Architecture
G&B Development Services, LLC
Apopka, Florida
HARDSCAPE DETAILS

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

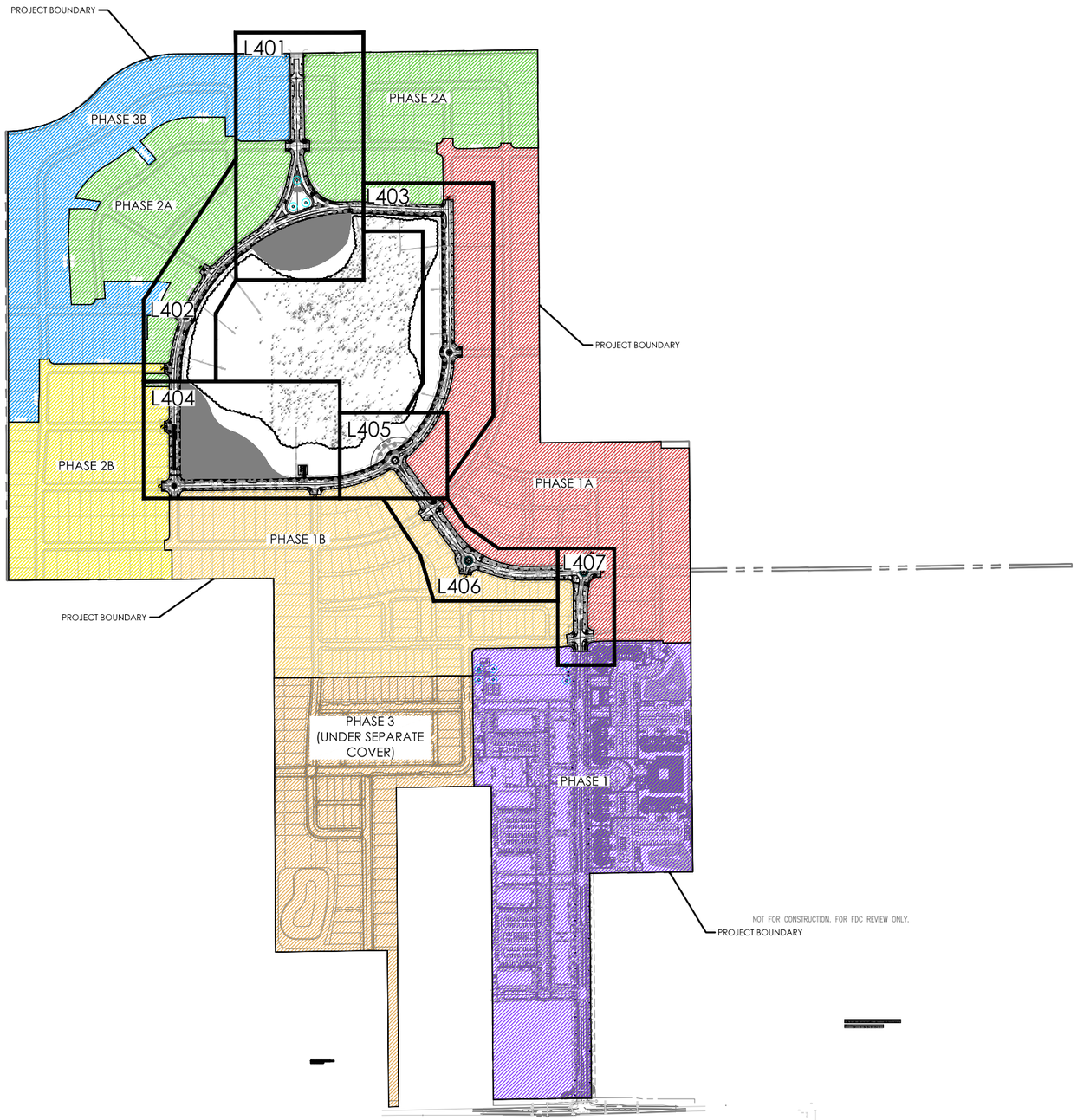
DATE: December 21, 2022
DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME:

REVISIONS:
1 DRC Comments 04-03-2023
2 General Revisions 08-07-2023

Todd W. Bennett FLA # FL0001776

L302

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CROSSROADS AT KELLY PARK
Landscape Architecture
G&B Development Services, LLC
Apopka, Florida
OVERALL LANDSCAPE PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

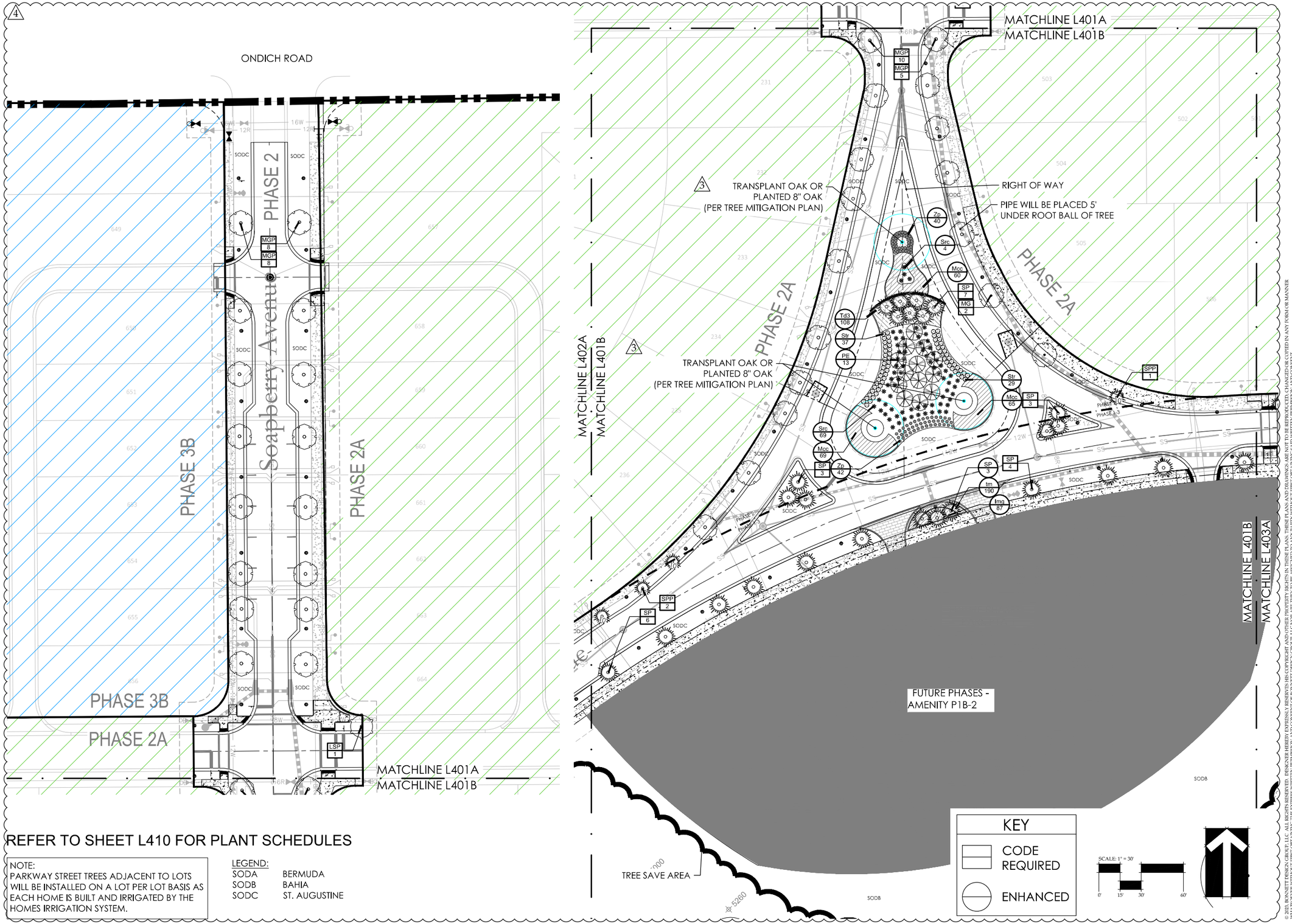
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JOB NUMBER: 2022.144
FILE NAME: 2022144-L400 DEVELOPMENT KELLY PARK OPEN SPACE & AMENITY_PH1-3 AND 2.DWG

REVISIONS:
1 DRC Comments 04-03-2023

Todd W. Bonnett, FLA # FL0002174

L400

DRAWING PLOTTED: 8/4/2023 10:19:17 AM
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REFER TO SHEET L410 FOR PLANT SCHEDULES

NOTE:
PARKWAY STREET TREES ADJACENT TO LOTS WILL BE INSTALLED ON A LOT PER LOT BASIS AS EACH HOME IS BUILT AND IRRIGATED BY THE HOMES IRRIGATION SYSTEM.

LEGEND:

SODA	BERMUDA
SODB	BAHIA
SODC	ST. AUGUSTINE

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CROSSROADS AT KELLY PARK

Landscape Architecture
G&B Development Services, LLC
Apopka, Florida
LANDSCAPE PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

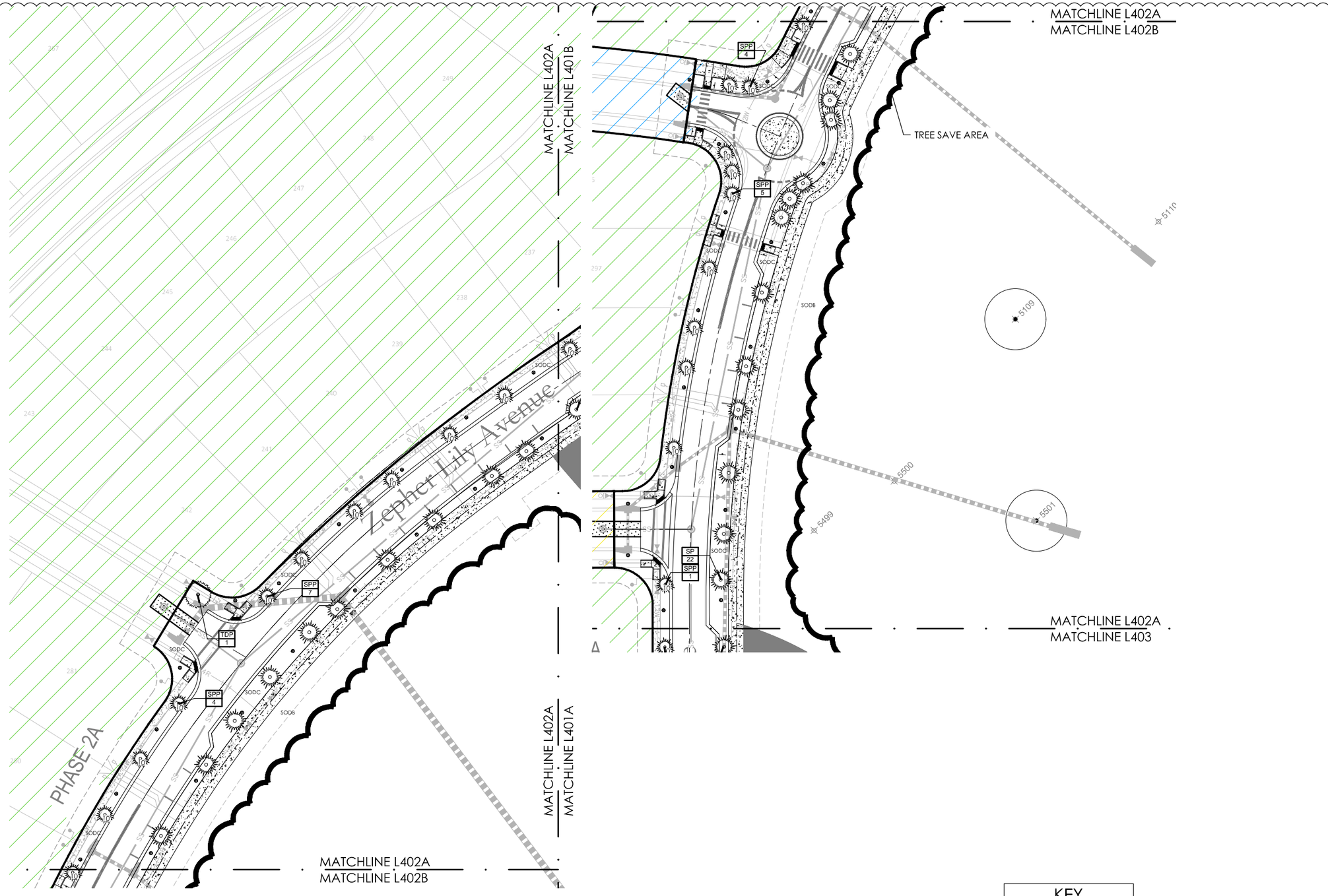
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FILE NAME:	

REVISIONS:
1. DRC Comments 04-03-2023
2. Updated Tree App 06-02-2023
3. General Revisions 08-07-2023

Todd W. Bonnett, RLA # FL0001758

L401

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REFER TO SHEET L410 FOR PLANT SCHEDULES

NOTE:
PARKWAY STREET TREES ADJACENT TO LOTS WILL BE INSTALLED ON A LOT PER LOT BASIS AS EACH HOME IS BUILT AND IRRIGATED BY THE HOMES IRRIGATION SYSTEM.

LEGEND:

SODA	BERMUDA
SODB	BAHIA
SODC	ST. AUGUSTINE

KEY

CODE REQUIRED

ENHANCED

SCALE: 1" = 30'

0' 15' 30' 60'

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LANDSCAPE PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

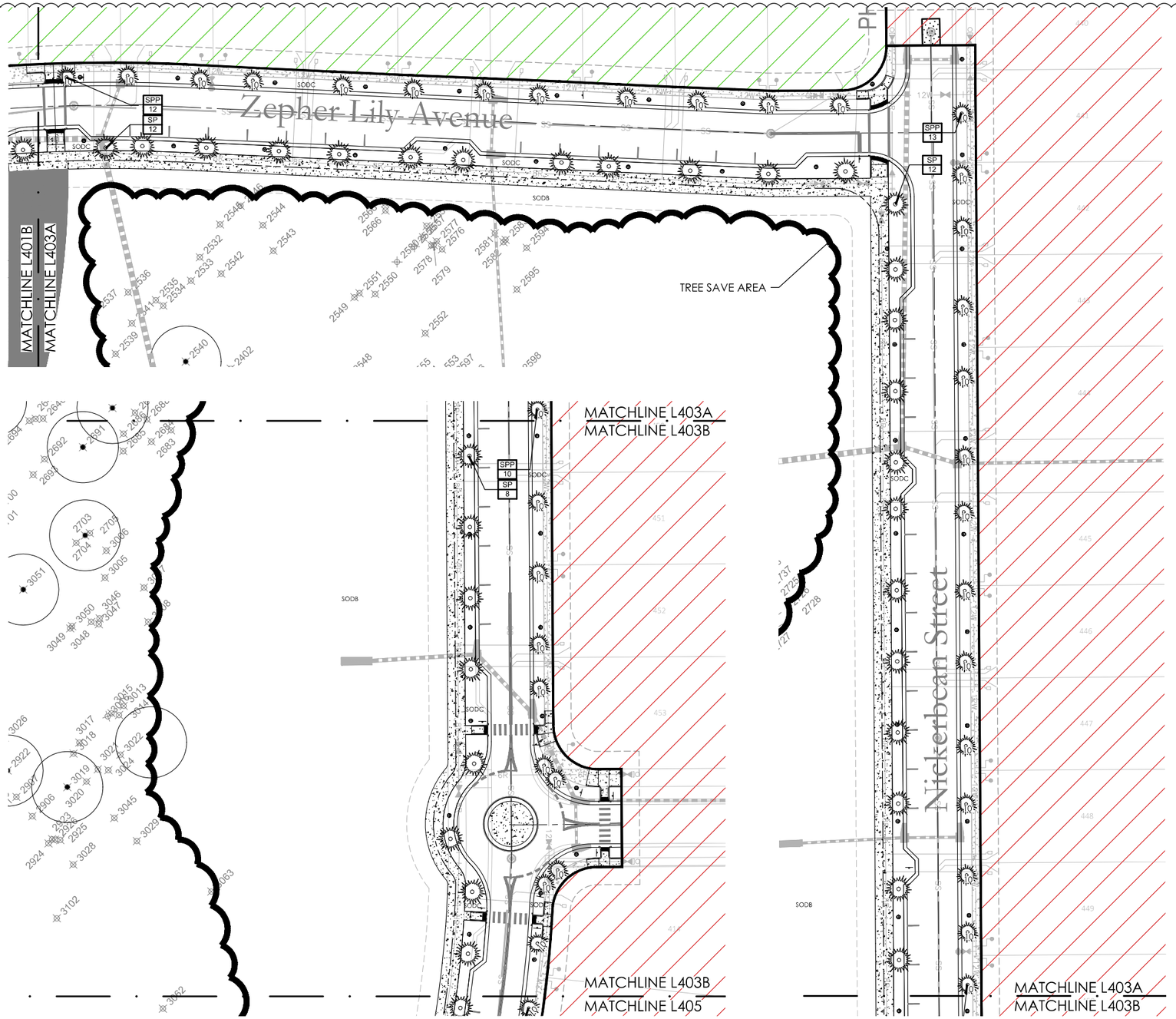
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JOB NUMBER: 2022.144
FILE NAME:

REVISIONS:
1 DRC Comments 04-03-2023
2 General Revisions 08-07-2023

Todd W. Bonnett, RLA # FL0002756

L402

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REFER TO SHEET L410 FOR PLANT SCHEDULES

NOTE:
PARKWAY STREET TREES ADJACENT TO LOTS WILL BE INSTALLED ON A LOT PER LOT BASIS AS EACH HOME IS BUILT AND IRRIGATED BY THE HOMES IRRIGATION SYSTEM.

LEGEND:

SODA	BERMUDA
SODB	BAHIA
SODC	ST. AUGUSTINE

KEY

CODE REQUIRED

ENHANCED

SCALE: 1" = 30'

0' 15' 30' 60'

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Apopka, Florida
LANDSCAPE PLAN

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REVISIONS:
1 DRC Comments 04-03-2023
2 General Revisions 08-07-2023

Todd W. Bonnett, RLA # FL0015758

L403

DRAWING PLOTTED: 8/1/2023 10:23:01 AM
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MATCHLINE L402A
MATCHLINE L403

TREE SAVE AREA

SODB

FUTURE PHASES - PARK P1B-2

MATCHLINE L404
MATCHLINE L405

Zepher Lily Avenue

Nickerbean Street

PHASE 1B

PHASE 1

SP 14
SPP 5
SPP 5
SPP 5
SPP 5
SP 19
SPP 16
SPP 3
PE2 2
PE 4
Pm 64
SP 6
TDP 1

REFER TO SHEET L410 FOR PLANT SCHEDULES

NOTE:
PARKWAY STREET TREES ADJACENT TO LOTS WILL BE INSTALLED ON A LOT PER LOT BASIS AS EACH HOME IS BUILT AND IRRIGATED BY THE HOMES IRRIGATION SYSTEM.

LEGEND:

SODA	BERMUDA
SODB	BAHIA
SODC	ST. AUGUSTINE

KEY

CODE REQUIRED

ENHANCED

SCALE: 1" = 30'

0' 15' 30' 60'

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CROSSROADS AT KELLY PARK
Landscape Architecture
G&B Development Services, LLC
Apopka, Florida
LANDSCAPE PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

DATE: December 21, 2022
DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME:

REVISIONS:
1 DRC Comments 04-03-2023
2 General Revisions 08-07-2023

Todd W. Bonnett, RLA # FL0001726

L404

DRAWING PLOTTED: 8/4/2023 10:21:28 AM
Z:\SHARED\BONNETT DESIGN GROUP\2022\2022.144_G&B DEVELOPMENT-KELLY PARK OPEN SPACE & AMENITY\DESIGN\2022.144_G&B DEVELOPMENT-KELLY PARK OPEN SPACE & AMENITY_LAYOUT_PH1-2 AND 2.DWG

MATCHLINE L403B
MATCHLINE L405

MATCHLINE L404
MATCHLINE L405

MATCHLINE L405
MATCHLINE L406

TREE SAVE AREA

PIPE WILL BE PLACED 5' UNDER ROOT BALL OF TREE

PIPE WILL BE PLACED 5' UNDER ROOT BALL OF TREE

Nickerbean Street

Blanket Street

PHASE 1A

PHASE 1A

SODA
SODB
SODC

REFER TO SHEET L410 FOR PLANT SCHEDULES

NOTE:
PARKWAY STREET TREES ADJACENT TO LOTS WILL BE INSTALLED ON A LOT PER LOT BASIS AS EACH HOME IS BUILT AND IRRIGATED BY THE HOMES IRRIGATION SYSTEM.

LEGEND:

SODA	BERMUDA
SODB	BAHIA
SODC	ST. AUGUSTINE

KEY

CODE REQUIRED

ENHANCED

SCALE: 1" = 30'

0' 15' 30' 60'

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CROSSROADS AT KELLY PARK
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LANDSCAPE PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

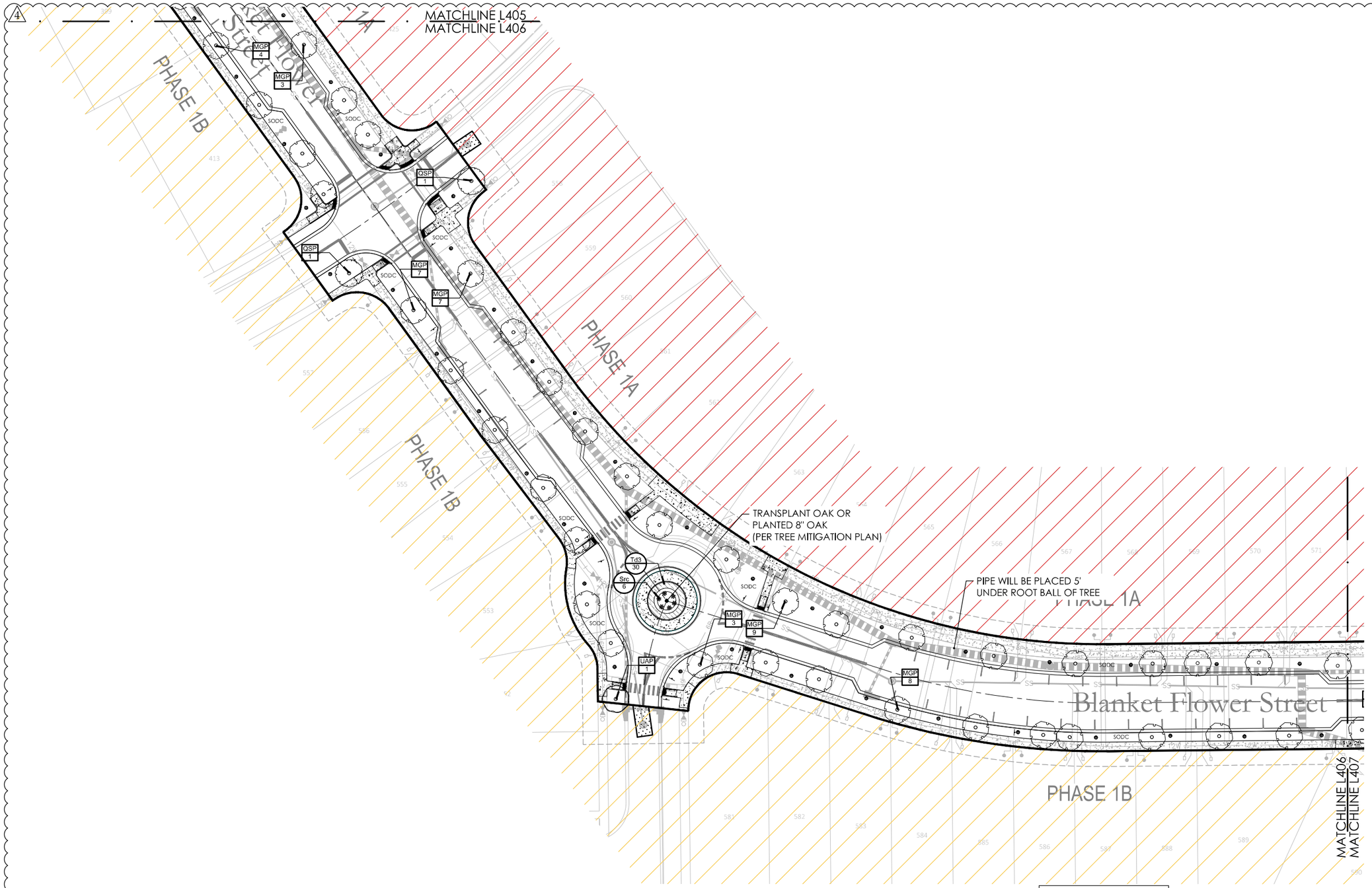
DATE: December 21, 2022
DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME:

REVISIONS:
1 DRC Comments 04-03-2023
2 General Revisions 08-07-2023

Todd W. Bonnett, RLA # FL0003758

L405

DRAWING PLOTTED: 8/1/2023 10:21:58 AM
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REFER TO SHEET L410 FOR PLANT SCHEDULES

NOTE:
PARKWAY STREET TREES ADJACENT TO LOTS WILL BE INSTALLED ON A LOT PER LOT BASIS AS EACH HOME IS BUILT AND IRRIGATED BY THE HOMES IRRIGATION SYSTEM.

LEGEND:

SODA	BERMUDA
SODB	BAHIA
SODC	ST. AUGUSTINE

KEY

CODE REQUIRED

ENHANCED

SCALE: 1" = 30'

0' 15' 30' 60'

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CROSSROADS AT KELLY PARK

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LANDSCAPE PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

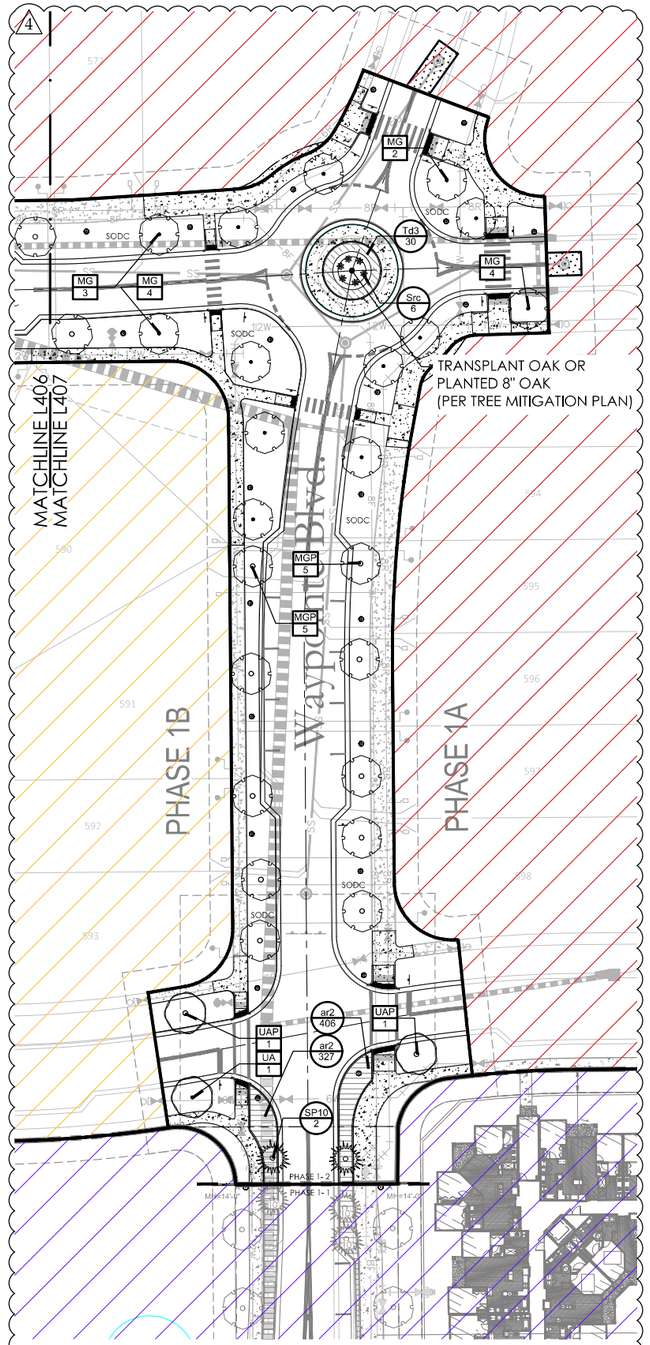
DATE: December 21, 2022
DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME:

REVISIONS:
1 DRC Comments 04-03-2023
2 General Revisions 08-07-2023

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L406

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4
MATCHLINE L406
MATCHLINE L407
TRANSPLANT OAK OR
PLANTED 8" OAK
(PER TREE MITIGATION PLAN)
Waypoint Blvd.
PHASE 1B
PHASE 1A
PHASE 1-2
PHASE 1-1
MG 2
MG 3
MG 4
MG 4
Td3 30
Src 6
MGP 5
MGP 5
UAP 1
UAP 1
UA 1
ar2 406
ar2 327
SP10 2
SODC
SODC
SODC

PHASE 1-2

CODE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING	REMARKS
	AR	2	Acer rubrum	Red Maple	3" DBH, min. 10` ht.	YES	HIGH	AS	
	MG	13	Magnolia grandiflora `Ms. Chloe`	Southern Magnolia	3" DBH, min. 10` ht.	YES	MEDIUM	AS	
	PO	2	Platanus occidentallis	American Sycamore	3" DBH, min. 10` ht.	YES	HIGH	AS	
	SP	118	Sabal palmetto	Sabal Palm	12`-20` CT. Mixed Ht.	YES	LOW	AS	
	UA	1	Ulmus alata	Winged Elm	3" DBH, min. 10` ht.	YES	LOW	AS	
PARKWAY TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECIFICATION**	**NATIVE**	**WATER USE ZONE**	**SPACING**	**REMARKS**
	MGP	56	Magnolia grandiflora `Ms. Chloe`	Southern Magnolia	3" DBH, min. 10` ht.	YES	MEDIUM	AS	
	QSP	2	Quercus shumardii	Shumard Oak	3" DBH, min. 10` ht.	YES	LOW	AS	
10'	SPP	110	Sabal palmetto	Sabal Palm	10` C.T.	YES	LOW	AS	
	TDP	2	Taxodium distichum	Bald Cypress	3" DBH, min. 10` ht.	YES	LOW	AS	
	UAP	3	Ulmus alata	Winged Elm	3" DBH, min. 10` ht.	YES	LOW	AS	

ENHANCED

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING	REMARKS
	PE	11	Pinus elliotti	Slash Pine	2" cal., 8`-10` ht. x 24" spd.	YES	LOW	AS	
	PE2	5	Pinus elliotti	Slash Pine	3" cal., 10-12` ht. x 30" spd.	YES	LOW	AS	
	QT	1	Quercus virginiana	Live Oak	8" cal., 22`-24` ht. x 12` spd., 6` ct.	YES	LOW	AS	
	SP10	2	Sabal palmetto	Sabal Palm	10` ct.	YES	LOW	AS	
	SP	18	Sabal palmetto	Sabal Palm	12`-20` CT. Mixed Ht.	YES	LOW	AS	
SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECIFICATION**	**NATIVE**	**WATER USE ZONE**	**SPACING**	**REMARKS**
	Pm	64	Podocarpus macrophyllus	Podocarpus	3 gal., full	NO	MEDIUM	36"	
	Src	48	Serenoa repens `Cinerea`	Silver Saw Palmetto	7 gal., min 36" ht.	YES	LOW	AS	
	Str	26	Strelitzia reginae	Orange Bird Of Paradise	7 gal., full	NO	LOW	36" o.c.	
GRASSES & BAMBOO	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECIFICATION**	**NATIVE**	**WATER USE ZONE**	**SPACING**	**REMARKS**
	Mcc	79	Muhlenbergia capillaris	Muhly Grass	3 Gal. 24" Ht.	YES	LOW	36" o.c.	
	Td3	259	Tripsacum dactyloides nana	Dwarf Fakahatchee Grass	3 Gal. 24" Ht.	YES	HIGH	36" o.c.	
GROUND COVERS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECIFICATION**	**NATIVE**	**WATER USE ZONE**	**SPACING**	**REMARKS**
	ar2	733	Arachis glabrata	Perennial Peanut	1 gal., full. Use mulch fines	NO	LOW	12" o.c.	
	lmb	417	Liriope muscari `Big Blue`	Big Blue Lilyturf	1 gal., 12"-15" spd., full pot	NO	LOW		
	lmg	87	Liriope muscari `Emerald Goddess`	Emerald Goddess Lilyturf	1 gal., 12"-15" spd., full pot	NO	LOW		
	tm	372	Trachelospermum asiaticum `Minima`	Minima Jasmine	1 gal., full. Use mulch fines	NO	MEDIUM		

SOD

SOD/SEED	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE
soda	Cynodon dactylon `Celebration`	Celebration Bermuda Grass	sod	NO	MEDIUM
sodb	Paspalum notatum 'Argentine'	Bahia Grass	sod	NO	LOW
sodc	Stenotaphrum secundatum	St. Augustine Grass	sod	NO	HIGH

*STREET TREES ADJACENT TO INDIVIDUAL LOTS TO BE INSTALLED, BY HOME DEVELOPER, SUBSEQUENT TO HOME CONSTRUCTION, TYP

No street trees within sight triangles per FDOT 212.

PHASE 2

CODE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING	REMARKS
	MG	2	Magnolia grandiflora `Ms. Chloe`	Southern Magnolia	3" DBH, min. 10` ht.	YES	MEDIUM	AS	
	SP	13	Sabal palmetto	Sabal Palm	12`-20` CT. Mixed Ht.	YES	LOW	AS	
PARKWAY TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECIFICATION**	**NATIVE**	**WATER USE ZONE**	**SPACING**	**REMARKS**
	LSP	1	Liquidambar styraciflua	American Sweet Gum	3" DBH, min. 10` ht.	YES	LOW	AS	
	MGP	31	Magnolia grandiflora `Ms. Chloe`	Southern Magnolia	3" DBH, min. 10` ht.	YES	MEDIUM	AS	
10'	SPP	1	Sabal palmetto	Sabal Palm	10` C.T.	YES	LOW	AS	

ENHANCED

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE	SPACING	REMARKS
	PE	13	Pinus elliotti	Slash Pine	2" cal., 8`-10` ht. x 24" spd.	YES	LOW	AS	
SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECIFICATION**	**NATIVE**	**WATER USE ZONE**	**SPACING**	**REMARKS**
	Src	73	Serenoa repens `Cinerea`	Silver Saw Palmetto	7 gal., min 36" ht.	YES	LOW	AS	
	Str	66	Strelitzia reginae	Orange Bird Of Paradise	7 gal., full	NO	LOW	36" o.c.	
	Zp	82	Zamia pumila	Coontie	3 gal., full	YES	LOW	24" o.c.	
GRASSES & BAMBOO	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SPECIFICATION**	**NATIVE**	**WATER USE ZONE**	**SPACING**	**REMARKS**
	Mcc	194	Muhlenbergia capillaris	Muhly Grass	3 Gal. 24" Ht.	YES	LOW	36" o.c.	
	Td3	108	Tripsacum dactyloides nana	Dwarf Fakahatchee Grass	3 Gal. 24" Ht.	YES	HIGH	36" o.c.	

SOD

SOD/SEED	BOTANICAL NAME	COMMON NAME	SPECIFICATION	NATIVE	WATER USE ZONE
sodc	Stenotaphrum secundatum	St. Augustine Grass	sod	NO	HIGH

*STREET TREES ADJACENT TO INDIVIDUAL LOTS TO BE INSTALLED, BY HOME DEVELOPER, SUBSEQUENT TO HOME CONSTRUCTION, TYP

No street trees within sight triangles per FDOT 212.

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CROSSROADS AT KELLY PARK
Landscape Architecture
G&B Development Services, LLC
Apopka, Florida
PLANTING SCHEDULES

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

DATE: December 21, 2022
DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME: 2022.144 DEVELOPMENT-KELLY PARK OPEN SPACE & AMENITY_L410_PH1-2 AND 2.DWG

REVISIONS:
1 DRC Comments 04-03-2023
2 Updated Tree App 06-02-2023
3 General Revisions 08-07-2023

Todd W. Bonnett, RLA # FL0003758

L410

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1 GENERAL REQUIREMENTS

The Landscape Contractor shall be responsible for all materials and all work as called for on the landscape plans. The list of plant quantities accompanying the plans shall be used as guide only. If a discrepancy occurs between the plans and the plant list, the plans shall control.

The Landscape Contractor shall warranty all trees for a period of one (1) year and shrubs and ground covers for a period of six (6) months from the time of final acceptance by Owner and Landscape Architect.

The Landscape Contractor shall be wholly responsible for the stability and plumb condition of all trees and shall be legally liable for any damage caused by the instability of any plant material. Staking of trees and palms, if required, shall be done utilizing a method agreed upon by the Landscape Architect.

The Landscape Contractor shall research plans and contact appropriate agencies to determine the location of any utilities and obstructions prior to commencing work. Any utilities or unanticipated obstructions shall be reported to Landscape Architect or Owner immediately.

All plant material and sodded areas shall have an automatic underground irrigation system providing 100% coverage.

Positive drainage shall be maintained away from all structures on the site.

PLANT SPECIFICATIONS

All nursery stock plant material shall be Florida #1 or better in accordance with Grades and Standards for Nursery Plants Parts I & II, latest edition as published by the Florida Department of Agriculture and Consumer Services- Division of Plant Industry.

All plant material shall be planted, fertilized and mulched as per the plant details and planting specifications noted on the plans.

All container grown material shall be healthy, vigorous, well rooted plants, and established in the container in which they are delivered to the site. The plants shall have tops which are good quality and in a healthy growing condition. Established container grown plant material shall be grown in that container sufficiently long enough for the new fibrous roots to have developed enabling the root mass to retain it's shape when removed the container. Plants which have become root bound in the container are unacceptable.

All plant material that is not container grown shall be freshly dug, sound, healthy, vigorous, well branched, and free of disease and insect eggs and larvae, and shall have adequate root systems. Where any requirements are omitted from the plant list, the plants furnished shall be normal for the variety. Plants may be pruned prior to delivery only upon the approval of the Landscape Architect.

FERTILIZER

Two fertilizers shall be used on all types of plantings, except palms. Granular fertilizer shall be uniform in composition, dry and free flowing. This fertilizer shall be delivered to the site in the original unopened bags bearing the manufacturer's statement of analysis. Granular fertilizer shall be a controlled release variety meeting the following requirements: sixteen percent (16%) nitrogen, four percent (4%) phosphorus, eight percent (8%) potassium, plus iron. tablet fertilizer ("Agriform" or approved equal) in 21 gram size shall meet the following requirements: twenty percent (20%) nitrogen, ten percent (10%) phosphorus, five percent (5%) potassium.

Application Rates:

Plant size	16-4-8	"Agriform" tablet (21 grams)
1 gallon	1/4 lb.	1 tablet
3 gallon	1/3 lb.	2 tablets
7-15 gallon	1/2 lb.	4 tablets
1" - 6" caliper	2 lbs. per 1" caliper	2 tablets per 1" caliper
6" + caliper	3 lbs. per 1" caliper	2 tablets per 1" caliper

Sodded areas shall receive an application of the granular fertilizer (16-4-8) at a rate of 1/2 lb. of Nitrogen per 1,000 square feet of sod area.

"Palm Special" fertilizer shall be applied to all palms at installation at a rate of 1 1/2 lbs. per 100 square feet of canopy area. Palm fertilizer shall be a controlled release variety containing chelated micro nutrients and a ratio of N-P-K-Mg of 2:1:3:1.

SOIL

Planting soil for use in preparing the backfill material for planting pits shall be added a rate of fifty percent (50%) planting soil to fifty percent (50%) existing soil. This soil mix shall be used in all plant pits except Sabal Palms which shall be backfilled with clean sand. Planting soil shall be a fertile, friable natural topsoil of loamy character. It shall contain forty (40) to fifty (50) percent decomposed organic matter and be free of heavy clay, stones larger than 1" in diameter, noxious weeds and plants, sod, partially disintegrated debris, insects or any other undesirable material, plants or seeds that would be toxic or harmful to plant growth.

MULCH

All plant beds and tree watering basins shall be top dressed with three inches (3") of pine bark mini-nuggets mulch.

SOD

Refer to Landscape Plan for limits of sod.

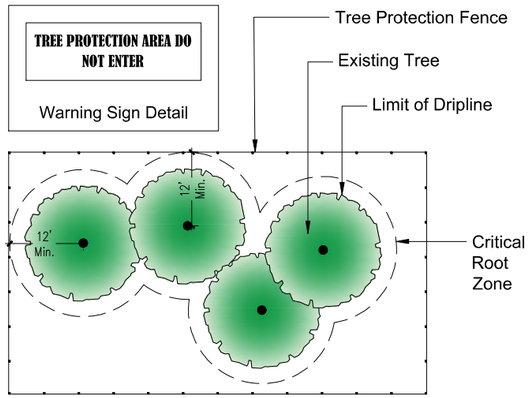
All areas disturbed by construction (including material staging, equipment storage, temporary facilities, site access, construction staff parking, etc.) beyond the minimum limits of sod as shown on the Landscape Plan shall be sodded as needed.

All lawn areas to receive sod shall be disked four (4) to six (6) inches and graded to establish a level finished grade ensuring positive drainage from all structures. All debris shall be removed from the site.

Sod shall be free of weeds and pests. It shall be laid evenly with tight fitting joints and rolled. The sod shall contain moist soil which does not fall apart or tear when lifted.

See plant list for specific sod species and locations.

See 'Fertilizer' for requirements of all sodded areas.



NOTES

5.3.9. - Tree Protection During Construction

A. **Owner's Responsibility.** During construction, the landowner or developer shall be responsible for the erection of any and all barriers necessary to protect trees within a tree protection area or other existing vegetation to be retained from damage both during and after construction.

B. **Tree Protection Fencing**

1. **Where Required.** Trees within the tree protection area, shall be fenced with a sturdy and visible fence before grading or other development activity begins. Fencing shall be erected no closer than one linear foot to the tree's drip line. The Director shall consider the existing site conditions in determining the exact location of tree protection fencing. Nothing shall prevent the use of alternative tree protection measures, as approved by the Director.

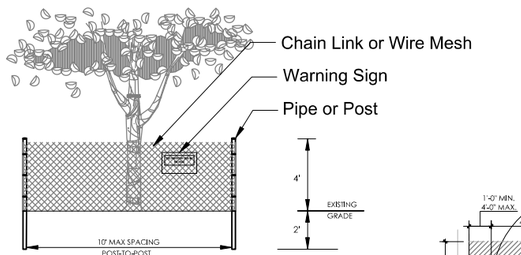
2. **Type of Fencing.** All fencing required by this section shall be a minimum four feet high and be made of durable construction (i.e., chain link or wooden post with 2x4 wire mesh). Posts shall be located no more than ten feet on-center. Chain link or wire fencing utilized as tree protection fencing shll not be required to be vinyl coated. Passive forms of tree protection may be utilized to delineate tree protection areas that are remote from areas of land disturbance. These must be surrounded by fencing, continuous rope, or durable taping (minimum four inches wide).

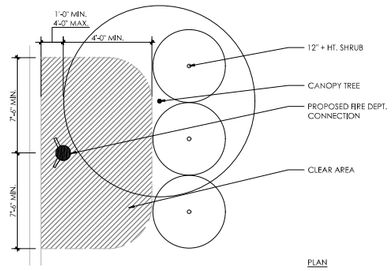
3. **Signage.** Signs shall be installed on the tree protection fence visible on all sides of the fenced-in area at a rate of at least one for every 150 linear feet. The size of each sign must be a minimum of two feet by two feet and shall contain the following language: "TREE PROTECTION AREA:KEEP OUT."

4. **Inspection**. All tree protection measures shall be inspected and approved by the Director prior to start of any land disturbing activities. Failure to have tree protection measures in place prior to land disturbance (other that surveying) is a violation of this LDC.

5. **When Required.** No construction, grading, equipment, or material storage, or any other activity shall be allowed within the fenced area. Fencing shall be maintained until after the final site inspection.

Figure 5.3.9.B.1: Tree Protection Fencing





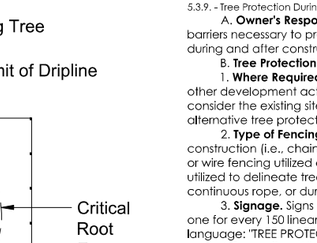
PLAN

TREES AND SHRUBS TALLER THAN 12" SHALL NOT BE PLANTED ANY CLOSER THAN 4'-0" FROM THE BACK OR 7'-6" FROM EACH SIDE OF A FIRE HYDRANT OR FIRE DEPT. CONNECTION

NO TREES OR SHRUBS SHALL BE PLANTED IN FRONT OF A FIRE HYDRANT OR FIRE DEPT. CONNECTION.

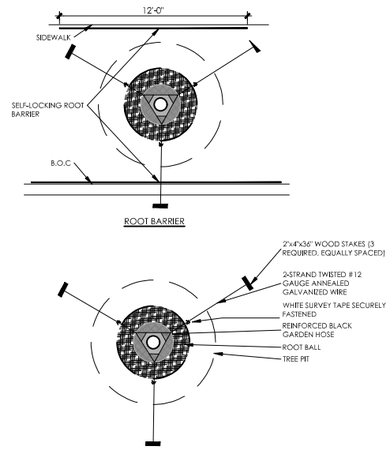
TURF AND GROUNDCOVER IS PERMITTED WITHIN THE CLEARANCE AREA

SECTION

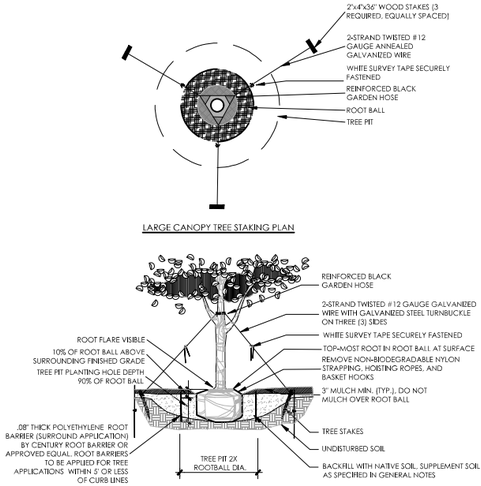


TYPICAL PLANTING AT FIRE HYDRANT

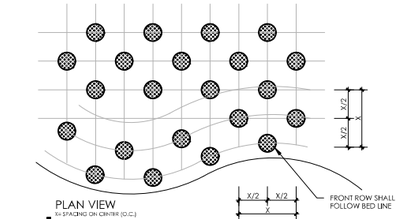
N.T.S.



ROOT BARRIER

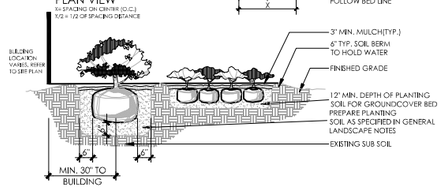


LARGE CANOPY TREE STAKING PLAN



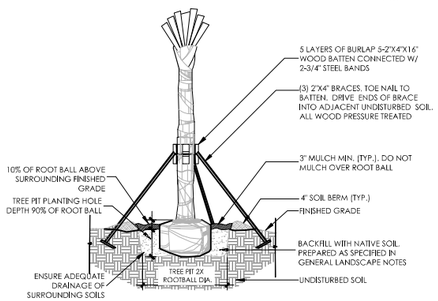
PLAN VIEW

X= SPACING ON-CENTER (O.C.)
X/2 = 1/2 OF SPACING DISTANCE



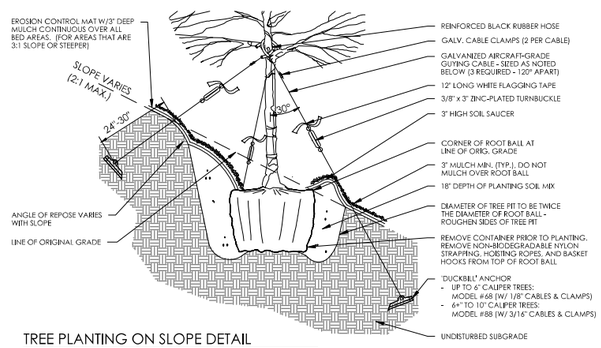
SHRUB AND GROUNDCOVER PLANTING DETAIL

N.T.S.



HURRICANE CUT PALM PLANTING DETAIL

N.T.S.



NOTE: TREE SUPPORT MATERIALS SHALL BE REMOVED FROM EACH TREE ONCE IT IS ESTABLISHED. THIS IS USUALLY DONE AFTER 6 MONTHS FOR SHADE TREES AND 1 YEAR FOR PALM TREES.

TREE PLANTING ON SLOPE DETAIL

N.T.S.

LARGE CANOPY TREE PLANTING DETAIL

N.T.S.

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CROSSROADS AT KELLY PARK
Landscape Architecture
G&B Development Services, LLC
Apopka, Florida
LANDSCAPE DETAILS & NOTES

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

DATE: December 21, 2022
DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME: 2022144 G:\DEVELOPMENT\KELLY PARK\OPEN SPACE & AMENITY_DESIGN_PH1-2 AND 2.DWG

REVISIONS:
1 DRC Comments 04-03-2023

Todd W. Bonnett, ELA # LD0001761

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SECTION 32.92.00 SODDING

PART 1– GENERAL

1.01 SCOPE OF WORK

A. This section shall govern the furnishing of all sod, labor, materials, equipment and services necessary for the complete installation of all sodding and other items necessary to complete the work as shown on the drawings and as specified herein

1.02 GENERAL REQUIREMENTS

A. See drawings for area to be sodded
B. Labor crews shall be directed by a landscape foreman experienced in plant materials, planting, reading blueprints, and coordination between job and nursery
C. Coordinate work with other related work in order to expedite installation of work

1.03 APPLICABLE DOCUMENTS

A. The following publications of the issues listed below form a part of this specification.
A.1. American Joint Committee on Horticultural Nomenclature (AJCHN) Standard Plant Names, Second Edition (1942)
A.2. American National Standards Institute (ANSI)– Z60.1–2004 Nursery Stock (sponsored by the American Association of Nurserymen, Inc.)
A.3. Grades and Standards for Nursery Plants, Part I and Part II, State Plant Board of Florida

PART 2– MATERIALS

2.01 TOPSOIL

A. If the quantity of existing stored or excavated topsoil is inadequate for sodding, sufficient additional topsoil shall be furnished. Topsoil furnished shall be a natural, fertile, friable soil, possessing characteristics of representative productive soils in the vicinity. It shall be obtained from naturally well–drained areas. Topsoil shall be without a mixture of subsoil and free from Johnson grass (Sorghum halepense), Nutgrass (Cyperus rotundas) and objectionable weeds and toxic substances.

2.02 LIME

A. Shall be ground limestone (Dolomite) containing not less that 85% of total carbonates, and shall be ground to such a fineness that 50% will pass a 100–mesh sieve and 90% will pass a 20–mesh sieve.

2.03 FERTILIZER

A. Commercial, fertilizer shall be 8–8–8 formulation, of which 60% of the nitrogen is in the urea–formaldehyde form and shall conform to the applicable State Fertilizer laws. It shall be granulated so that 80% is held on a 16–mesh screen, uniform in composition, dry and free–flowing.

2.04 SOD

A. Sod shall be St. Augustine Floratam or Bahia Argentine, as noted on the plans. Sod shall be fresh, healthy, living stems and attached roots. Sod shall be obtained from approved sources where the sod is heavy and thickly matted and free from ground pearl and fairy ring. The soil depth shall be uniform and 1"– 1–1/2" thick. Sod shall be free of Nutgrass (Cyperus rotundas), Johnson grass (Sorghym halepense), and other objectionable weeds, and shall not contain material which might be detrimental to the development of the turf.

2.05 REQUIREMENTS

A. All areas within the limits of work indicated for sodding and all areas disturbed by the Contractor's operations, shall be grassed (sodded).

PART 3– EXECUTION

3.01 INSTALLATION

A. Grading: Areas to be grassed shall be graded to remove depressions, undulations, and irregularities in the surface before grassing.
B. Tillage: When it is determined by a Landscape Architect that the soil conditions warrant special attention, the area to be grassed shall be thoroughly tilled to a depth of 3" using a plow and disc harrow or rotary tilling machinery until a suitable seed bed has been prepared and no clods or clumps remain larger that 1"– 1–1/2" diameter.
C. Applying Lime: The pH of the soil shall be determined. If the pH is below 5.0, sufficient lime shall be added to provide a pH between 5.5 and 6.5. The lime shall be thoroughly incorporated into the top three or four inches of the soil. Lime and fertilizer may be applied in one operation.
D. Applying Fertilizer: Fertilizer shall be applied at the rate of 10 pounds per 1,000 sq. ft. and shall be broadcast over the surface after the sod has been placed.
E. Sodding: Sod shall be placed within 48 hours of harvesting. In addition sod shall not be left stacked for longer that 24 hours.
F. Placing Sod: The soil shall be soaked just prior to placing sod. Each block or strip of sod shall be butted firmly against the last. Gaps shall be filled with pieces of sod and topsoil. The sod shall not be stretched while placing. Immediately after placing sod, roll to provide firm contact with soil.
G. Watering: Sodding will not be authorized unless the planting soil has a moisture content level sufficient to prevent the immediate drying out of newly placed sod. Water shall be applied prior to sodding operations. At least one–half inch of water shall be applied uniformly to all areas to be sodded. In addition, watering will be required over all areas on which sodding has been completed. This application shall be made not later than 30 minutes after sodding has been completed and shall amount to at least one–half inch of water over the entire area sodded. Watering shall be done in a manner which will prevent erosion due to the expressive quantities in a concentrated area. Water source shall be provided by the Owner.
H. Winter Cover: All areas to be grassed shall be protected against erosion at all times. For protection during winter months, Italian Ryegrass shall be planted at the rate of four pounds per 1,000 sq. ft. on all areas which are not protected by permanent grass.
I. Clean–up: All excess soil, excess grass materials, stones, and other waste shall be removed from the site daily and not allowed to accumulate. All paved areas shall be kept clean at all times.
J. Maintenance shall begin immediately following the last operation of sodding and continue until final acceptance. Maintenance shall include watering, mowing, replanting, and all other work necessary to produce a uniform stand of grass. Grassing will be considered for final acceptance when the permanent grass is health and growing on 100% of area to be sodded

3.02 QUALITY CONTROL

A. Contractor quality control shall apply to all work in this Section in accordance with the provisions of Division I, General Requirements. Except where specific testing, and approval shall be performed by the Contractor's quality control representative or a member of his staff. Where it is specified that a submission be made to others for approval, the CQC representative shall check the submission and satisfy himself that it complies with contract requirements prior to submission to others for approval.

3.03 CONTRACTOR'S RECORD OF CERTIFICATION

A. Contractor's records of certification will be required for the following, and three copies each of all documentation shall be furnished the Owner for record purposes:
A.1. Certificate of Conformance will be required for the following
A.1.1. Sod
A.1.2. Fertilizer
A.1.3. Topsoil
A.1.4. Lime
A.2. Test Reports: The results of laboratory tests performed on the topsoil material shall be submitted. The reports shall include the pH level, the amount of organic matter, and available phosphoric acid and potash of the soil intended for use in the work.

3.04 REQUEST FOR FINAL ACCEPTANCE

A. The Contractor shall submit to the Owner or his Representative two copies of a written request for final acceptance of the grassing work. The request shall be submitted at least ten days prior to the anticipated date of acceptance. The condition of the grass will be noted, and the Contractor will be notified if maintenance is to continue

3.05 GUARANTEE AND REPLACEMENT

A. All sod shall be guaranteed for a period of thirty (30) days from the time of job acceptance.
B. Replacement of sod necessary during the maintenance period shall be the responsibility of the Contractor, except for possible replacements of sod due to theft, vandalism, neglect by Owner or acts of negligence of the part of others.
C. At the end of the guaranty period, and at any time during the period, any sod that dies or is not in satisfactory condition, as determined by the Owner and the Landscape Architect, shall be removed and replaced with new, healthy material of the original. The new material shall be guaranteed as outlined above. The Landscape Contractor shall be responsible for the cost of the material and labor.
D. The time limit may be extended by agreement by agreement for any material in questionable condition at the end of the guaranty period.

END OF SECTION 32.92.00

SECTION 32.93.00

PART1– GENERAL WORK

1.01 SCOPE OF WORK

A. This section covers furnishing and installing all landscape plants and not–plant materials covered by the drawings and these specifications. The work shall include materials, labor, equipment and services as described herein and indicated on the drawings. Also, the work shall include the maintenance of all plants and planting areas until acceptance by the Owner, and the fulfillment of all guarantee provisions as herein specified

1.02 PLANTING LAYOUT

A. Before beginning work, the Contractor shall investigate and verify, in the field, the existence and location of all underground utilities and irrigation piping, and take precautions to prevent their disturbance. It shall be the responsibility of the Contractor to obtain all such information as it is made available. Plans and specifications of related work may be obtained from the Owner.
B. The Contractor shall locate all general reference points; take precautions to prevent their disturbance; perform the layout work; be responsible for all lines, elevations and measurements of work executed under the contract; exercise proper precaution to verify figures on drawings before laying out work; and be responsible for any error resulting from failure to exercise such precaution. The Contractor shall make field measurements for his own work and be responsible for its accuracy.
C. Discrepancies between conditions existing on the site and conditions indicated on the drawings shall be called to the attention of the Owner before or at the time plant locations are staked out.
D. In the event of a variation between the plant list and the actual number of plants shown on the plans, the plans shall control.

1.03 HORTICULTURAL STANDARDS

A. Unless otherwise noted, plant material, including collected materials, shall be grade FLORIDA NO. 1 or better as outlined under Grades and Standards for Nursery Plants, Part I and Part II, State Plant Board of Florida; and shall also conform to American Standard for Nursery Stock, ANSI (American National Standards Institute, Inc.) Z60.1–2004 as approved by the American Association of Nurserymen.
B. All plant names shall conform to the names given in Standardized Plant Names, 1942 Edition, prepared by the American Joint Committee on Horticultural Nomenclature. Names of varieties not included therein shall conform generally with names accepted in the nursery trade. All plant materials shall be true to botanical, common and variety name. Botanical name shall have precedence over common name.
C. The Landscape Architect shall have the right, at any stage of the operations,to reject any and all work and materials that, in their opinion, do not meet with the requirements of these Specifications, Such rejected material shall be removed from the site and acceptable material substituted in its place.

1.04 CERTIFICATES OF INSPECTION

A. All plant material shall be inspected by the Florida Department of Agriculture, as required by state law. Plants of a grade less than that specified in the article titled HORTICULTURAL STANDARDS will not be accepted.

PART 2– MATERIALS

2.01 SOIL BACKFILL

A. Soil for backfilling planting areas and plant pits shall be the existing surface soil, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones, stumps, roots, trash, toxic substances, mortar, cement, limerock, asphalt, or any other material that may be harmful to plant growth or hinder planting operations. Poorly drained soils shall not be used.
B. Soil amendments shall be added to the soil in the amount and manner prescribed by soil analysis to obtain a pH of 5.5 to 6.5. Results from soil analysis and a list of the prescribed amendments shall be presented to the Owner and verified by the Landscape Architect prior to being incorporated into the soil.
C. If additional soil is required, it shall be furnished by the contractor and shall be a natural, friable soil representative of productive, well–drained soils in the vicinity. It shall be obtained from well drained areas which have never been stripped before; and shall be free of admixture of subsoil and foreign matter, stones, toxic substances, and any material or substance that may be harmful to plant growth.
D. The Contractor shall provide the following information on imported topsoil:
D.1. Specific location from which topsoil will be (or was) stripped.
D.2. Present Owner of that property.
D.3. Approximate amount of topsoil available
D.4. Test results showing topsoil composition and analysis
E. Soil test shall be performed by a qualified soils laboratory, in accordance with "Methods of Soils Analysis–Agronomy #9" as published by the American Society of Agronomy, and shall be performed at the Contractor's expense.
F. Planting soil backfill for raised architectural planters, if applicable, shall consist of 40% potting soil, 40% coarse washed builders sand and 20% horticultural perlite.
G. Areas designated to be planted with flowering annuals, if applicable, shall be excavated to a depth of 8" and backfilled with a mixture consisting of 40% peat, 40% D.O.T. (coarse) sand, 10% pine bark (decomposed) and 10% cypress chips.
H. Planting soil backfill for tree wells, if applicable, shall be ⅓ approved topsoil and ⅓ coarse washed builder's sand

2.02 FERTILIZER

A. Commercial fertilizer shall be Florikan18–6–8 Premium Ornamental formulation, 100 day slow release, available from ESA Corp., Sarasota, Florida USA, www.florikan.com, PH 941.377.8666, or approved equal. Fertilizer shall be uniform in composition, dry and free flowing.
B. Specimen plants– A transplant amendment shall be used which is formulated as a transplant preparation to inoculate landscape trees and/or shrubs with live beneficial mycorrhizal fungi when planting. It contains highly selected endo and ectomycorrhizoe fungi that will quickly colonize the roots of new transplants to provide the best possible conditions for the roots to become as effective as possible during the establishment period and beyond. Both endo and ectomycorrhizal inoculants are combined with Trichoderma, humic acids, beneficial bacteria, soluble sea kelp, yucca plant extracts, to promote rapid root development. To reduce transplant stress and watering maintenance, and to slow release all soluble components of the formulation, water management gel is added to complete the package.
C. Specimen Palm plants– shall be treated when planting with an inoculum of live beneficial mycorrhizal fungi to promote new feeder roots and mycorrhizal development on newly planted palms. The inoculum shall contain highly selected endomycorrhizal fungi that will quickly colonize roots of palms to provide the best possible conditions for the roots to grow and extract from the root zone water and nutrients. The mycorrhizal fungi shall be combined with humic acids, biostimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts, fulvic acid, nitrogen, phosphorous, potassium, and chelated magnesium, manganese, iron and zinc, to promote rapid root development.

2.03 DOLOMITIC LIMESTONE

A. Dolomitic limestone shall be a natural limestone, designated for agricultural use, shall contain not less that 85 percent of total carbonates, and shall be ground so that 50 percent will pass a 100 mesh sieve and 90 percent will pass a 20 mesh sieve.

2.04 PRE–EMERGENCE WEED CONTROL

A. Weed control shall be Ronstar 2G as manufactured by Bayer Environmental Science, Canada, PH 888.283.6847, www.bayeres.ca or Pendulum Aqua Cap as manufactured by BASF– The Chemical company, Florida USA, http://bettervm.basf.us/ or an approved equal.

2.05 WATER

A. Water will be available for use on site during landscape installation at no cost to the Contractor. Care shall be exercised to assure that water is kept free of harmful chemicals, acids, alkaline, or any substance that might be harmful chemicals, acids, alkaline, or any substances that might be harmful to plant growth.

2.06 ANTIDESICCANT

A. Anti–desiccant shall be an emulsion type, film–forming agent designed to permit transpiration, but retard excessive loss of moisture from plants, such as Dowax by Dow Chemical Co., or Wilt–Pruf by Nursery Specialty Products, Inc., or an acceptable equal. The anti–desiccant shall be delivered in the manufacturer's fully identified containers and shall be mixed in accordance with manufacturer's instructions.

2.07 BORICIDE

A. Boricide shall be Onyx manufactured by FMC www.fmcprosolutions.com

2.08 MULCH

A. All mulch shall be pine bark mini nuggets, 100% organic, Grade "B", or better. Alternative mulch types, if so identified on the drawings shall be used.

2.09 GUYING AND STAKING MATERIAL

A. Stakes or supporting trees shall be ArborBrace or ArborGuy Tree Guying System as shown per details.

2.10 DRAINAGE GRAVEL

A. Where indicated on the drawings, or where soil conditions deem it necessary, the Contractor shall install gravel subdrains beneath trees and/or planting areas to aid in soil drainage and percolation. The subdrain shall be constructed as detailed on the drawings, or as directed by the Landscape Architect. Drainage gravel shall consist of washed, clean gravel ¾ inch to 2 inches in size.

2.11 SOIL SEPARATION MATS/FILTER FABRIC

A. Soil separation mats, if indicated on the drawings, shall be Mirafi 140N as manufactured by TenCate, or approved equal. Mats shall be installed as indicated on the drawings, and edges overlapped a minimum of 4 inches. Care shall be take to prevent tearing or excessive crushing during the installation process.

2.12 QUALITY OF PLANT MATERIAL

B. During inspection, as set forth hereinafter, all plant material will be judged, and rejections shall be based upon these standards. All plants shall comply with federal and state law requiring inspection for plant diseases and infestations. Inspection certificates required by law shall be made available to the Owner or Owner's representative at his/her request
C. In determining the quality of plant material, the following elements will be valued:
C.1. Root condition
C.2. Plant size (above ground)
C.3. Insect and disease free condition
C.4. General appearance (color, shape, pruning)– a deficiency in one or more of these areas will be sufficient reason to reject selectively or by lot.
D. The Landscape Architect shall have the right, at any stage of the operations, to reject any and all work and materials which, in their opinion, do not meet with the requirements of these specification. Such rejected material shall be removed from the site and acceptable material substituted in its place.

2.13 SIZE AND MEASUREMENTS
A. Plants shall be measured when branches are in their normal position. Heights and spread dimensions specified refer to the main body of the plant and not to extreme branch tip to tip. The measurements specified are the minimum size acceptable and where pruning is required, these proper proportion as outlined in Florida Department of Agriculture, Grades and Standards for Nursery Plants Part I and II. Caliper of trees shall be take 12 inches above ground level and shall be determining measurement for trees.
B. Plants that have been headed back to conform to the size specified will not be acceptable. Plants larger than specified may be used if approved the Owner; however, the use of such plants shall not increase the contract price.

2.14 LABEL

A. Plant materials shall have durable, legible labels stating, in weather resistant ink, the correct botanical and common names and size as indicated in the Plant List. Each plant, or sufficient representative samples of each delivered shipment, shall have labels securely attached in a fashion that will interfere with normal plant growth. Plant materials that have (or will have) a seasonal bloom shall be tagged with labels indicating the specific variety of that species' botanical and common name.

2.15 BALLED / BURLAPPED / WIRE BALLED / BURLAPPED PLANTS

A. All ball sizes shall be of a diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant after planting. All balls shall be firm, shall not be broken or cracked, and shall be wrapped and securely tied with heavy twine or wire. All trees shall be root pruned a minimum of 6 weeks before delivery.
A.1. When the tree is root pruned, the tree crown shall be selectively thinned to reduce the volume of the crown. This shall consist of thinning and shaping only. Care shall be taken to assure that the plant form will not be distorted and will remain typical of the species growth characteristics.
B. Plants designated B&B or WB&B in the Plant List shall be adequately balled with firm, natural balls of soil in sizes at least equal to those set forth in ANSI Z60.1–2004. Balls shall be firmly wrapped with jute burlap or equivalent cloth capable of rotting in the ground.
B.1. No balled plant shall be planted if the ball is cracked, mushroomed, or broken either before or during the process of planting. Trees grown in grow bags shall not be acceptable. Synthetic strings, straps, and burlap material shall be properly removed from the rootball. Synthetic burlap is to be totally removed from the rootball

2.16 COLLECTED PLANTS

A. All plant material (except Wax Myrtles and Sabal Palms) shall be nursery grown. Collected plants shall have been grown under climatic conditions similar to those in the locality of the project. All collected plants shall meet the requirements as specified and shall meet all specified grades and standards, unless otherwise qualified in the Plant List or these specifications. Rootballs shall be increased in size one third greater that nursery grown plants.

2.17 CONTAINERIZED PLANTS

A. All container grown plants shall be well rooted and established in the container in which they are delivered to the site. The plants shall have been in that container sufficiently long for the fibrous roots to hold the soil together when the plant is removed from the container. Container grown plants found to be root–bound during planting will bot be acceptable. Containerized trees have a tendency to dry out quickly. The Contractor shall be responsible for hand watering the trees at time of delivery through the time of final acceptance at a rate consistent with the nursery watering schedule to assure that the tree does not go into shock.

2.18 SPECIMEN PLANTS

A. After receiving the Notice to Proceed, the Contractor shall locate all plants specified as specimen. The Contractor shall notify the Owner so they may agree on a time to mutually inspect the selected plants. The Owner will inspect and tag those plants that are acceptable for use. Expenses incurred by the Owner for any subsequent inspection of specimen plants, at any time, in addition to the mutually agreed time, shall be responsibility of the Contractor.

2.19 PALMS (if required)

A. Palms, except cabbage palms and unless otherwise indicated, shall be burlapped. Buds of palms shall be tied and supported in an upright position in accordance with the guidelines of Florida Dept. of Agriculture, Grades and Standards for Nursery Plants, Part II, Palms and Trees.
B. Special care shall be applied to the handling and planting of palms. Unless otherwise indicated, palms shall have heavy straight (unless curved is noted) trunks with full heads. Washingtonia palm rootballs shall be dug with a minimum of 5' diameter ball 3' deep. Where Sabal palms are specified with fronds, the head shall be tied and supported during transport with a 2"x4" tied parallel to the trunk extending up to the foliage. Avoid excessive pressure on the petioles when tying the head. Date Palm heads shall be tied using 4"x4" wood poles.

2.20 FLOWERING ANNUALS

A. Landscape Contractor to submit "Flowering Annuals" selections to Owner's Representative and/or Landscape Architect for approval prior to purchasing. Flowering annual selections to be based on availability, quality, and growing season. Locations and spacing as indicated on drawings.

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PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

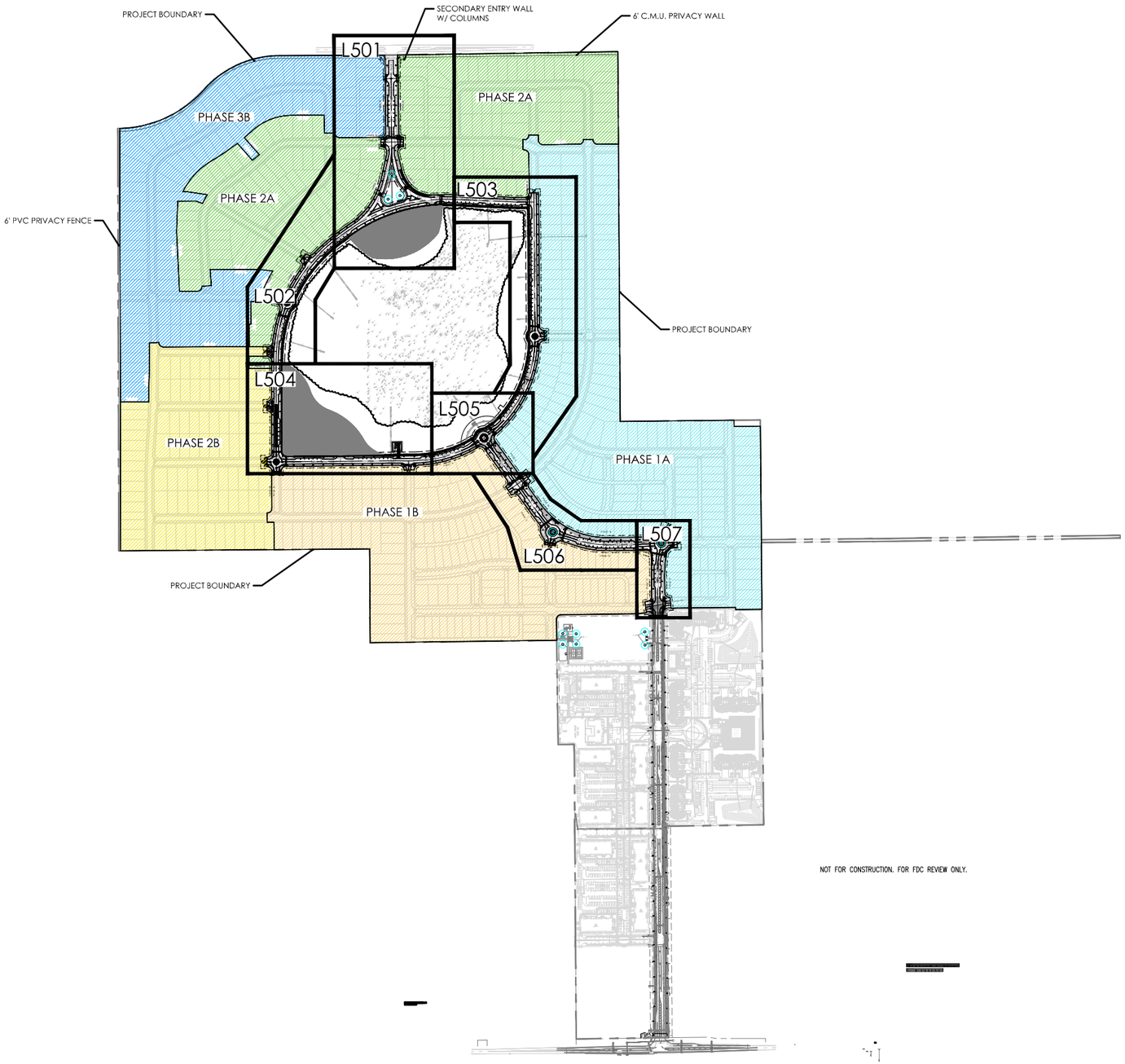
DATE: December 21, 2022
DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME: 2022.144 KELLY DEVELOPMENT-KELLY PARK OPEN SPACE & AMENITY_DESIGN_PH1-2 AND 2.DWG

REVISIONS:
1 DRC Comments 04-03-2023

Todd W. Bonnett, RLA # FL0001756

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ZONE CHART "B"

ZONE	PLANT (TYPE)	IRRIGATION (TYPE)	WATER (DEMAND)	PRECIP. (RATE)	APPLIC. (IN. PER WEEK REQ.)	GPM (GPM)	MINUTES (PER CYCLE)	TOTAL (GALLONS)
1	SOD	SPRAY	LOW	0.75	0.5	54	20	1,080
2	SOD	SPRAY	LOW	0.75	0.5	49	20	980
3	SOD	SPRAY	LOW	0.75	0.5		20	0
4	PLANT	SPRAY	MEDIUM	0.75	1.0	5	40	200
5	SOD	SPRAY	LOW	0.75	0.5	45	20	900
6	SOD	SPRAY	LOW	0.75	0.5	49	20	980
7	PLANT	SPRAY	MEDIUM	0.75	1.0	5	40	200
8	SOD	SPRAY	LOW	0.75	0.5	50	20	1,000
9	SOD	SPRAY	LOW	0.75	0.5	44	20	880
10	SOD	SPRAY	LOW	0.75	0.5	56	20	1,120
11	SOD	SPRAY	LOW	0.75	0.5	19	20	380
12	SOD	SPRAY	LOW	0.75	0.5	38	20	760
13	SOD	SPRAY	HIGH	0.75	1.5	37	60	2,220
14	PLANT	SPRAY	MEDIUM	0.75	1.0	44	40	1,760
15	PLANT	SPRAY	MEDIUM	0.75	1.0	23	40	920
16	PLANT	SPRAY	MEDIUM	0.75	1.0	13	40	520
17	SOD	SPRAY	LOW	0.75	0.5	35	20	700
18	SOD	SPRAY	LOW	0.75	0.5	24	20	480
19	SOD	SPRAY	LOW	0.75	0.5	56	20	1,120
20	SOD	SPRAY	LOW	0.75	0.5	21	20	420
21	SOD	SPRAY	LOW	0.75	0.5	38	20	760
22	SOD	SPRAY	LOW	0.75	0.5	23	20	460
23	SOD	SPRAY	LOW	0.75	0.5	40	20	800
				TOTAL GPM PER RUN CYCLE		750	600	17,920
				TOTAL GPM PER WEEK (PEAK WEEKLY DEMAND)				35,840

ZONE CHART "C"

ZONE	PLANT (TYPE)	IRRIGATION (TYPE)	WATER (DEMAND)	PRECIP. (RATE)	APPLIC. (IN. PER WEEK REQ.)	GPM (GPM)	MINUTES (PER CYCLE)	TOTAL (GALLONS)
1	SOD	SPRAY	LOW	0.75	0.5	54	20	1,080
2	SOD	SPRAY	LOW	0.75	0.5	16	20	320
3	PLANT	SPRAY	MEDIUM	0.75	1.0	7	40	280
4	SOD	SPRAY	LOW	0.75	0.5	48	20	960
5	PLANT	SPRAY	MEDIUM	0.75	1.0	43	40	1,720
6	SOD	SPRAY	LOW	0.75	0.5	30	20	600
7	PLANT	SPRAY	MEDIUM	0.75	1.0	18	40	720
8	SOD	SPRAY	LOW	0.75	0.5	25	20	500
9	SOD	SPRAY	LOW	0.75	0.5	24	20	480
10	SOD	SPRAY	LOW	0.75	0.5	16	20	320
11	SOD	SPRAY	LOW	0.75	0.5	32	20	640
12	SOD	SPRAY	LOW	0.75	0.5	38	20	760
13	SOD	SPRAY	LOW	0.75	0.5	43	20	860
14	SOD	SPRAY	LOW	0.75	0.5	30	20	600
15	SOD	SPRAY	LOW	0.75	0.5	19	20	380
				TOTAL GPM PER RUN CYCLE		443	360	10,220
				TOTAL GPM PER WEEK (PEAK WEEKLY DEMAND)				20,440

ZONE CHART "D"

ZONE	PLANT (TYPE)	IRRIGATION (TYPE)	WATER (DEMAND)	PRECIP. (RATE)	APPLIC. (IN. PER WEEK REQ.)	GPM (GPM)	MINUTES (PER CYCLE)	TOTAL (GALLONS)
1	SOD	SPRAY	LOW	0.75	0.5	39	20	780
2	SOD	SPRAY	LOW	0.75	0.5	46	20	920
				TOTAL GPM PER RUN CYCLE		85	40	1,700
				TOTAL GPM PER WEEK (PEAK WEEKLY DEMAND)				3,400

THE RUN TIMES SHOWN FOR THE ZONE IS FOR ONE RUN CYCLE AND WILL PROVIDE HALF THE REQUIRED AMOUNT OF WATER NEEDED PER WEEK. TWO RUN CYCLES PER WEEK ARE REQUIRED TO PROVIDE THE TOTAL WEEKLY REQUIREMENT. ALL RUN TIMES SHALL BE SET TO FOLLOW THE CURRENT WATER MANAGEMENT DISTRICT REGULATIONS AND REDUCED TO ONLY ONE RUN TIME PER WEEK WHEN RESTRICTED BY DAYLIGHT SAVINGS TIME OR WATER RESTRICTIONS. THE ZONE CHART IS PROVIDED AS A GENERAL OUTLINE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO SET THE RUN TIMES BASED ON THE SPECIFIC SITE CONDITIONS AND PLANT REQUIREMENTS. THIS SHALL INCLUDE, BUT NOT LIMITED TO, SOIL TYPE, DRAINAGE, SLOPES, SUN EXPOSURE AND THE ESTABLISHMENT PERIOD. THE TOTAL GPM REQUIRED PER YEAR WILL BE LESS THAN THE PEAK DEMAND PER WEEK TIMES 52 WEEKS, BASED ON THE RUN TIMES BEING REDUCED BY SENSORS AND A REDUCED WATER DEMAND IN THE WINTER MONTHS.

SCALE: 1" = 300'

0' 150' 300' 600'

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Apopka, Florida
OVERALL IRRIGATION PLAN

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

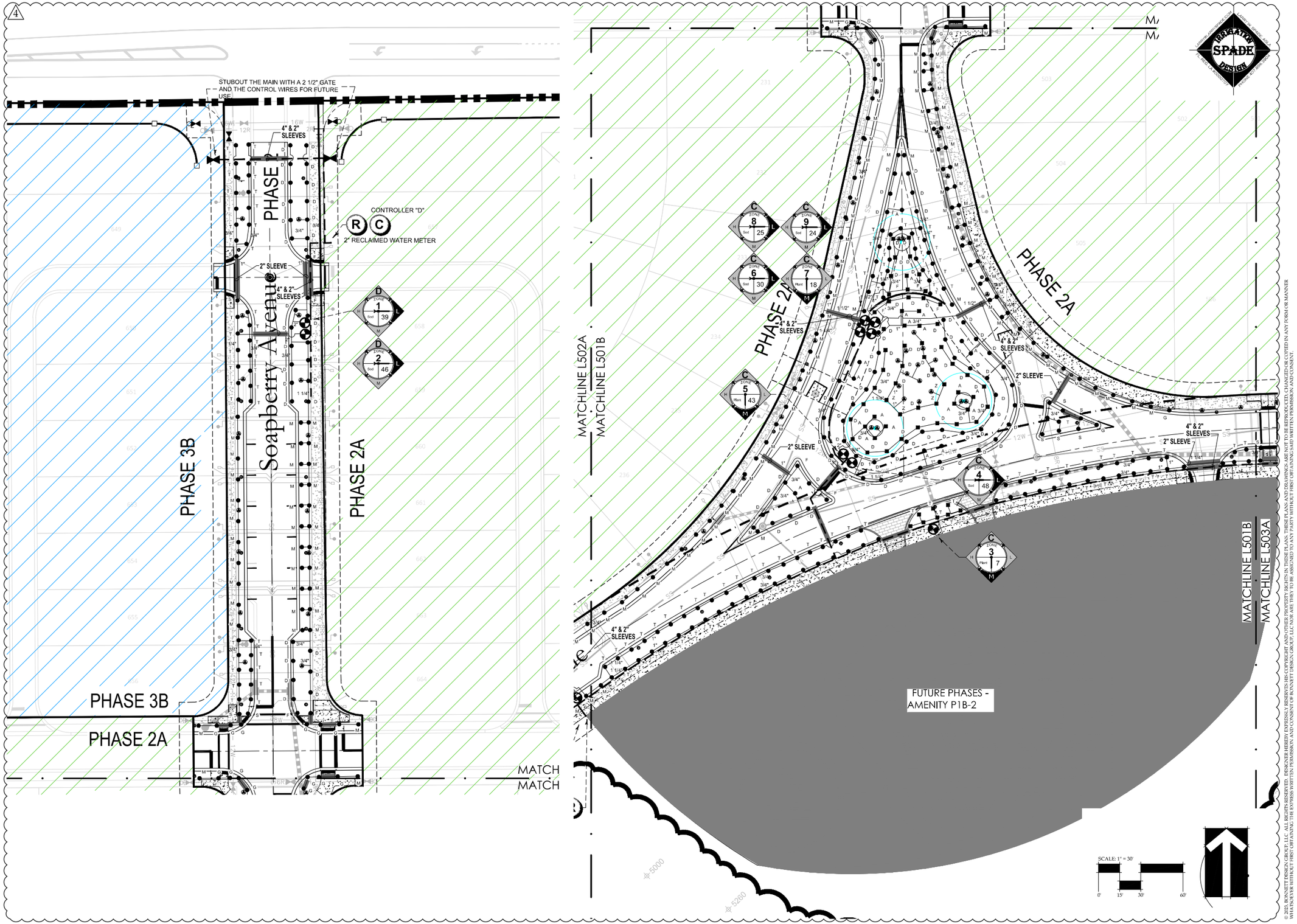
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1 General Revisions 08-07-2023

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PH 1-2, I-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

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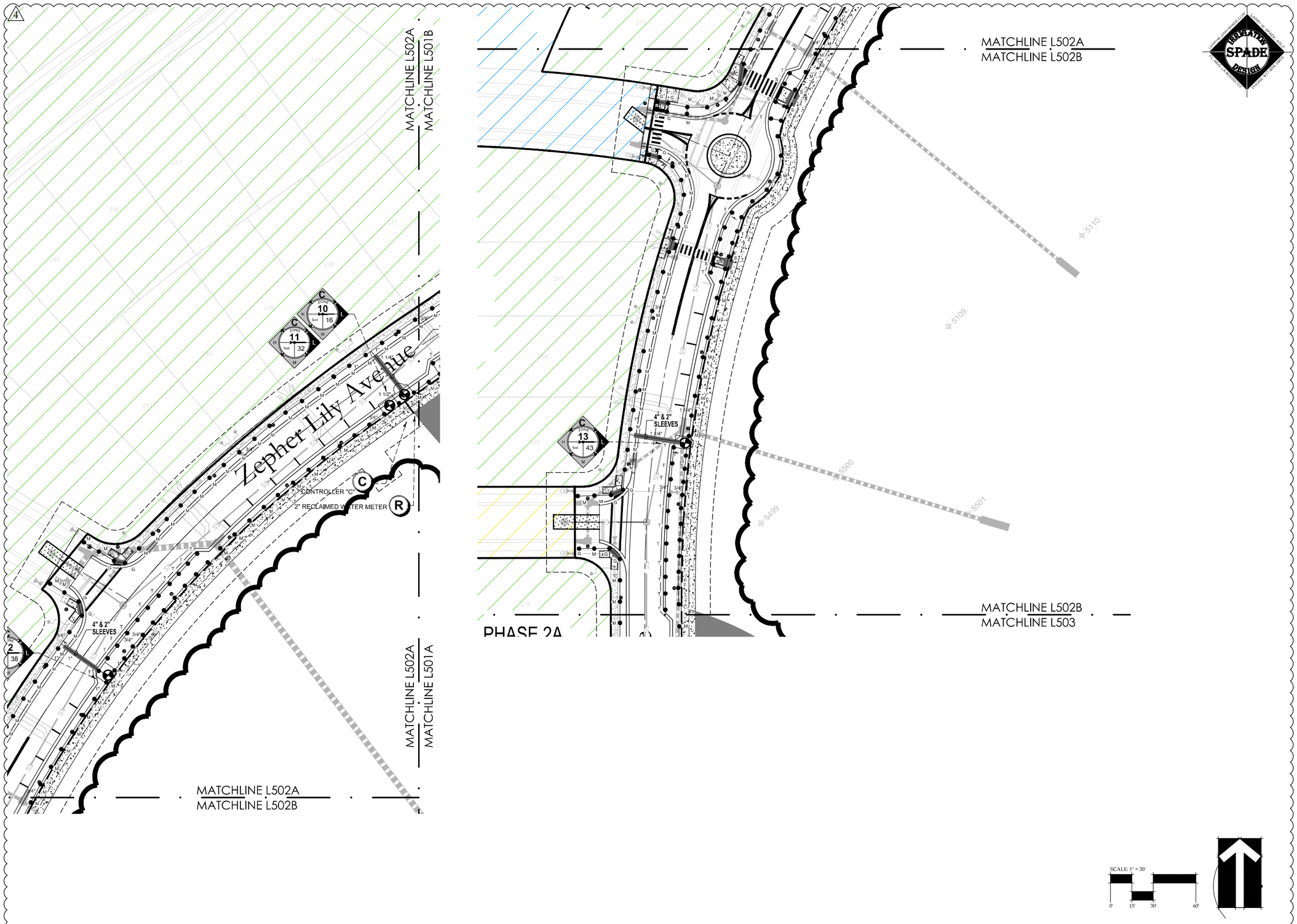
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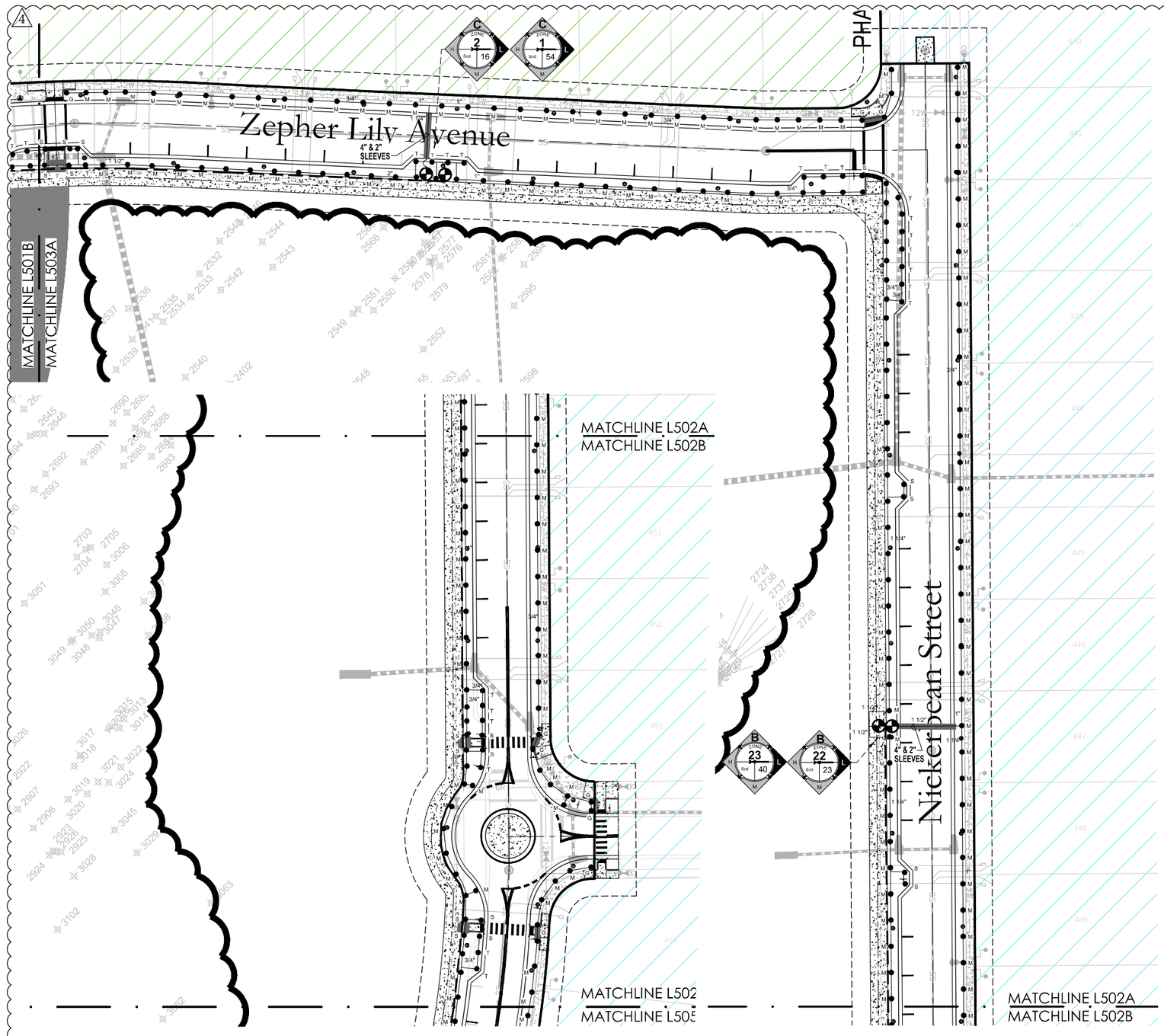
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MATCHLINE L502B
MATCHLINE L503

E 2A

E 2B

Zepher Lily Avenue

FUTURE PHASES - PARK P1B-2

FUTURE 2" RECLAIMED WATER METER

Nickerbean Street

PHASE 1B

MATCHLINE L504
MATCHLINE L505

4" & 2" SLEEVES
2" SLEEVE
4" SLEEVE

SCALE: 1" = 30'

0' 15' 30' 60'

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MATCHLINE L504
MATCHLINE L505

MATCHLINE L502B
MATCHLINE L505

PHASE 1A

Acerbean Street

4" & 2" SLEEVES

CONTROLLER "B"

2" RECLAIMED WATER METER

2" SLEEVE

2" SLEEVE

Blanket St

PHASE 1A

MATCHLINE L505
MATCHLINE L506

SCALE: 1" = 30'

0' 15' 30' 60'

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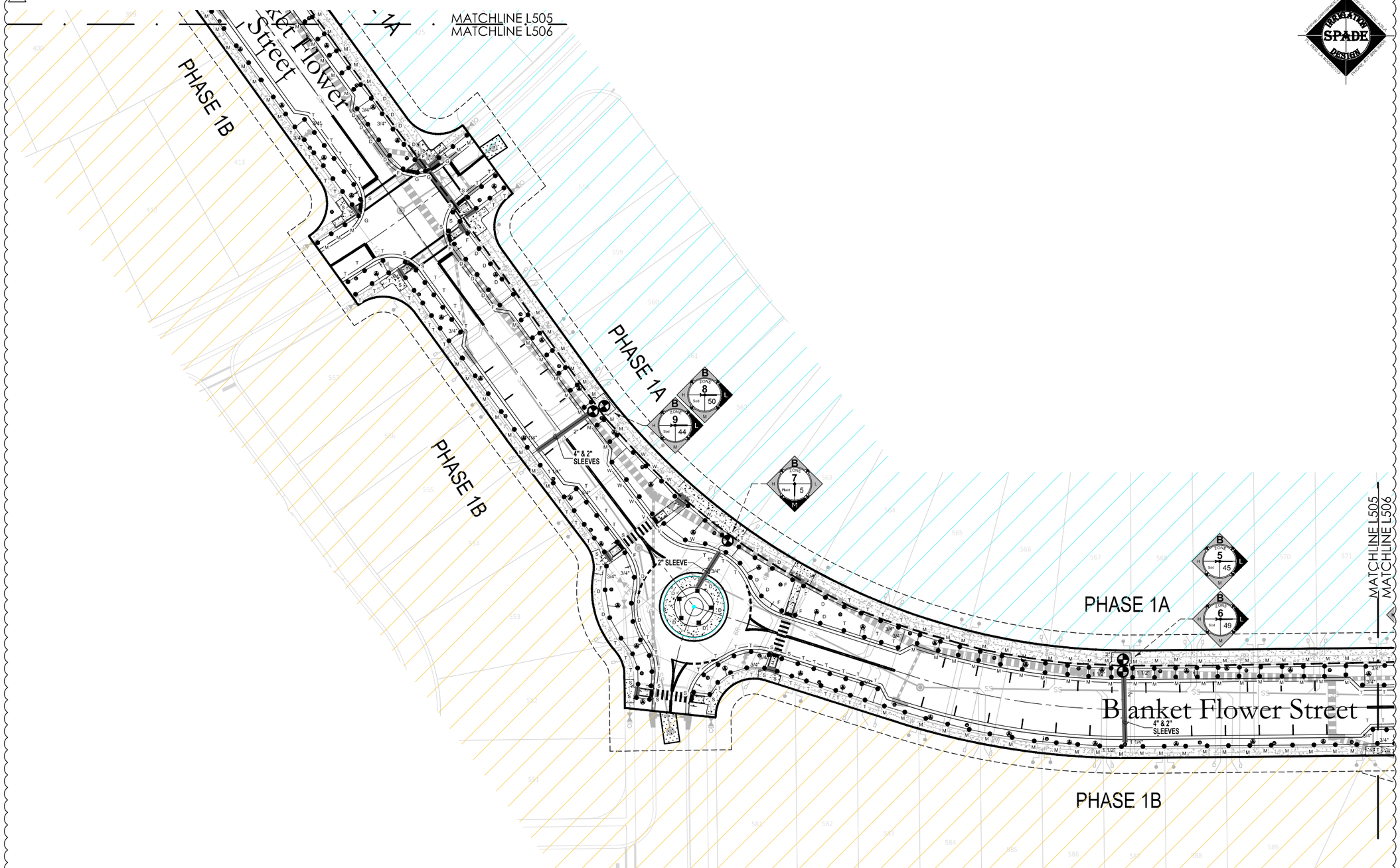
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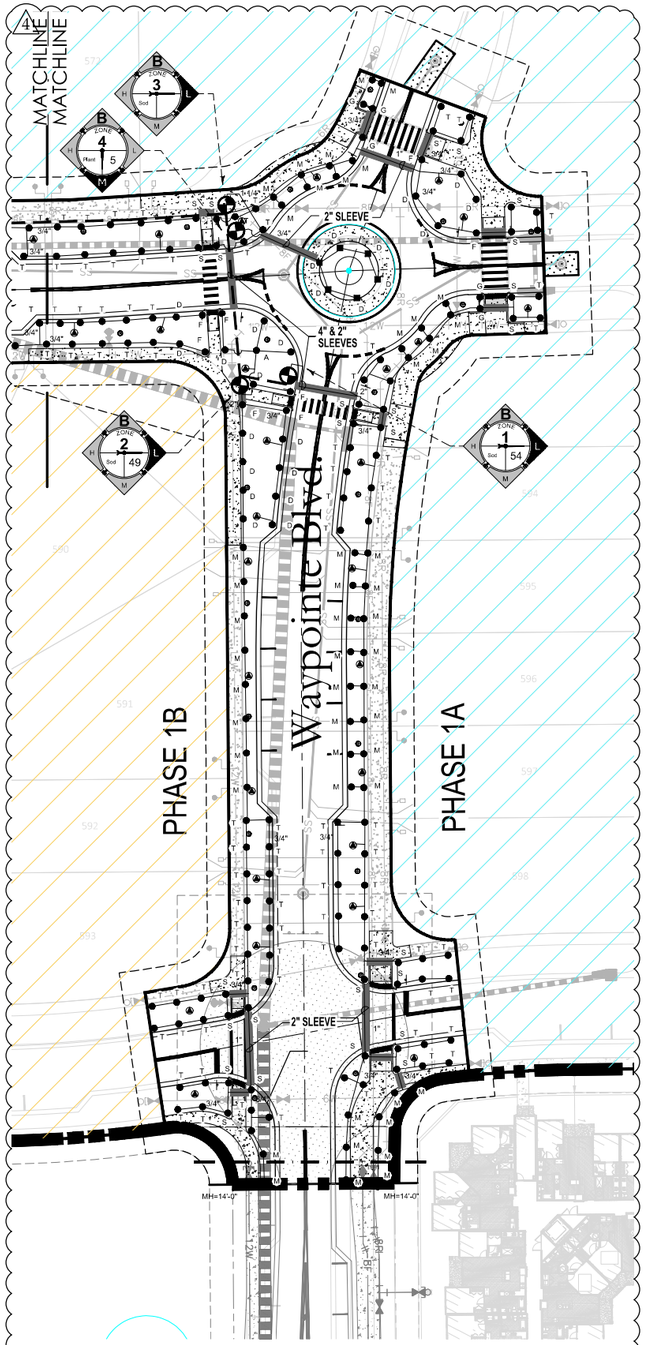
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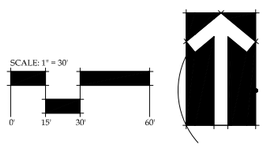
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PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

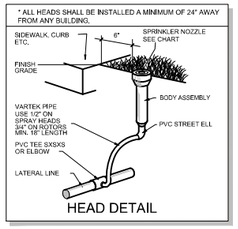
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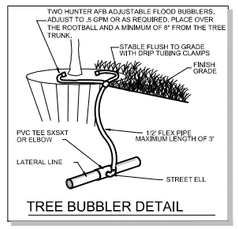
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L507

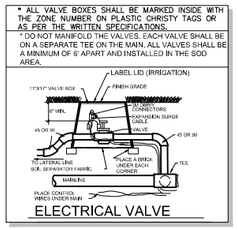
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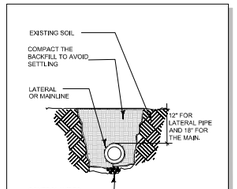
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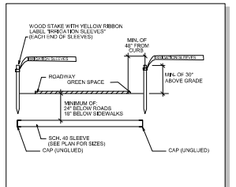
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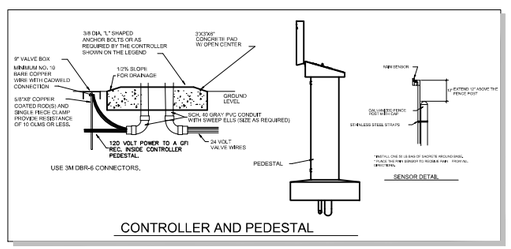
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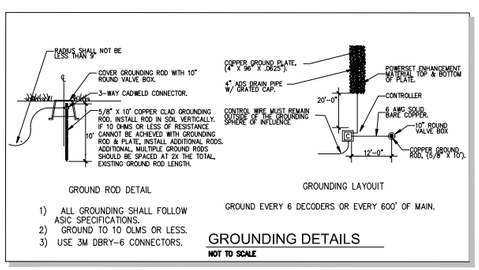
TRENCHING DETAIL



SLEEVE DETAIL



CONTROLLER AND PEDESTAL



GROUND ROD DETAIL

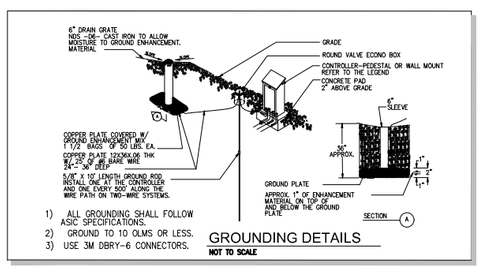
GROUNDING LAYOUT

1) ALL GROUNDING SHALL FOLLOW ASIC SPECIFICATIONS.
2) GROUND TO 10 OLMS OR LESS.
3) USE 3M DBRY-6 CONNECTORS.

GROUND EVERY 6 DECODERS OR EVERY 600' OF MAIN.

GROUNDING DETAILS

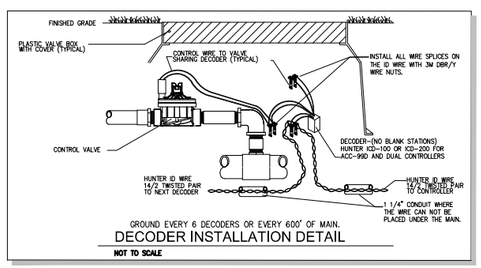
NOT TO SCALE



1) ALL GROUNDING SHALL FOLLOW ASIC SPECIFICATIONS.
2) GROUND TO 10 OLMS OR LESS.
3) USE 3M DBRY-6 CONNECTORS.

GROUNDING DETAILS

NOT TO SCALE



GROUND EVERY 6 DECODERS OR EVERY 600' OF MAIN.

DECODER INSTALLATION DETAIL

NOT TO SCALE

GENERAL NOTES

1) REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREES AND SHRUBS. HAND DIG AROUND ANY EXISTING TREES. DO NOT CUT ANY ROOTS OVER 2" IN DIAMETER.
2) ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
3) ALL POP-UP ROTORS AND SPRAYS SHALL BE INSTALLED USING AN 18" PVC FLEX PIPE CONNECTION. DO NOT USE POLYETHYLENE PIPE. USE WELDON 737 WITH A PURPLE PRIMER OR RED HOT CHRISTY'S BLUE GLUE ON ALL CONNECTIONS.
4) ADJUST ALL NOZZLES TO REDUCE WATER WASTE ON HARD SURFACES, WINDOWS AND BLDG. WALLS. THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING. USE ADJUSTABLE NOZZLES WHERE REQUIRED TO AVOID ANY WATER ON BUILDING WINDOWS.
5) NO RISERS SHALL BE USED AS PER CITY OF APOPKA CODE.
6) ALL CONTROL WIRE CONNECTIONS SHALL BE MADE IN VALVE BOXES USING 3M DBR-Y WIRE CONNECTORS AND SEALANT WITH WIRE NUTS.
7) THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING SHOWING ALL IRRIGATION INSTALLATION. THE CONTRACTOR SHALL NEATLY MARK IN RED INK ON A WHITE BOND PAPER COPY OF THE IRRIGATION PLAN ANY INSTALLATION THAT DEVIATES FROM THE PLAN. THE AS-BUILT DRAWING SHALL ALSO LOCATE ALL MAINLINE AND VALVES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES. MEASUREMENTS SHALL BE MARKED ON THE PLAN EVEN WHEN THE EQUIPMENT IS INSTALLED IN THE EXACT LOCATION AS THE PLAN. PROVIDE THE OWNER A PDF OF THE AS-BUILT PLAN.
8) ALL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES. THE VALVE BOXES SHALL BE PURPLE WHEN USING RECLAIMED WATER.
9) ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS OR INSIDE A SCH. 40 SLEEVE.
10) ALL HEADS SHALL BE INSTALLED A MINIMUM OF 24" FROM ANY WALL AND A MINIMUM OF 6" FROM ANY SIDEWALK, PATIO OR ROAD. (MINIMUM OF 2'-0" WHERE THERE ARE NO BUMPER STOPS) THE EXACT HEIGHT OF ANY 12" POP-UP THAT IS SHOWN IN A SHRUB BED SHALL BE DETERMINED BY THE OWNER'S REPRESENTATIVE IN THE FIELD. INSTALL THE 12" POP-UP HIGHER WHERE BLOCKED BY TALL SHRUBS.
11) THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIRS AND COST OF ANY DAMAGE CAUSED BY THEIR WORK.
12) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP OR AS OUTLINED IN THE WRITTEN SPECIFICATIONS.
13) ELECTRICAL SERVICE TO LOCATION OF THE CONTROLLER, WELL OR PUMP SHALL BE PROVIDED TO A JUNCTION BOX OR DISCONNECT AT THE EQUIPMENT LOCATION BY THE ELECTRICAL CONTRACTOR OR BY OWNER WHEN IT IS NOT PART OF THE BID PACKAGE. CONFIRM THE LOCATION OF THE CONTROLLER WITH THE OWNER OR GENERAL CONTRACTOR BEFORE ANY INSTALLATION.
14) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCALE THE PLAN AND CHECK NOZZLE TYPES TO DETERMINE THE CORRECT SPACING OF THE HEADS. THE CONTRACTOR SHALL NOT SPACE THE HEADS FURTHER APART OR USE LESS HEADS THAN SHOWN ON THE PLAN. ANY CHANGES TO THE HEAD SPACING OR LAYOUT, WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT OR OWNER, SHALL HOLD THE IRRIGATION CONTRACTOR RESPONSIBLE FOR WARRANTY OF THE PLANTS AND OR SOD IN THESE AREAS.
15) 48 HOURS BEFORE DIGGING, CALL 1-800-432-4770 (SUNSHINE STATE ONE CALL CENTER)
16) INSTALL THREE EXTRA CONTROL WIRES TO EACH TERMINATION OF THE MAIN. ALL CONTROL WIRES SHALL BE INSTALLED INSIDE OF SCH. 40 GRAY PVC CONDUIT WHERE THEY CANNOT BE UNDER THE MAIN.

RECLAIMED WATER REQUIREMENTS

1) ALL PIPE SHALL BE THE PURPLE RECLAIMED WATER TYPE.
2) ALL SPRINKLER HEADS SHALL HAVE PURPLE INDICATORS.
3) ALL MANUAL AND ELECTRIC VALVES SHALL HAVE TAGS TO INDICATE RECLAIMED WATER.
4) ALL VALVE BOXES SHALL BE PURPLE WITH PURPLE LIDS TO INDICATE THE PRESENCE OF RECLAIMED WATER.
5) ALL EQUIPMENT SHALL BE INSTALLED AS PER ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES. PROVIDE AND INSTALL ALL REQUIRED RECLAIMED WATER SIGNS. COORDINATE PLACEMENT AND TYPE WITH THE RECLAIMED WATER PROVIDER.
6) ALL CROSSINGS OF IRRIGATION PIPING AND POTABLE WATER LINES SHALL HAVE THE VERTICAL CLEARANCE VISUALLY VERIFIED AND THIS VERIFICATION MUST BE SHOWN ON THE AS-BUILT DRAWINGS BY DOCUMENTING THE VERTICAL MEASUREMENT SEPARATING THE PIPES.
7) THE VERTICAL SEPARATION BETWEEN THE POTABLE AND RECLAIMED WATER LINES SHALL BE A MINIMUM OF 18". THIS SEPARATION SHALL BE VERIFIED AND DOCUMENTED IN A SET OF AS-BUILT DRAWINGS AS PER SPECIFICATIONS. THE HORIZONTAL SEPARATION SHALL BE 9' CENTER TO CENTER AND 3' OUTSIDE TO OUTSIDE IF VERTICAL MINIMUM OF 18" IS NOT MET. REFER TO THE SPECIFIC CODE IF THESE SEPARATIONS CAN NOT BE MET.

LEGEND

REFER TO THE RECLAIMED WATER NOTES
USE HUNTER MP ROTATOR NOZZLES

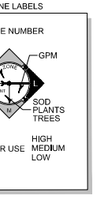
●	HUNTER PRS40 SPRAY SERIES 6" POP-UP
■	HUNTER PRS40 SPRAY SERIES 12" POP-UP
▲	TWO HUNTER AFB ADJUSTABLE FLOOD BUBBLERS PER TREE
— — —	CLASS 200 PURPLE PVC MAINLINE-2 1/2"
———	CLASS 200 PVC PURPLE LATERAL LINE- SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN. MINIMUM SIZE OF 3/4" (EXCEPT RISERS AND FLEX PIPE)
▬▬	SCH. 40 SLEEVE (MINIMUM OF 24" DEPTH AND 2 SIZES LARGER THAN THE PIPE SIZE OR AS LABELED ON THE PLAN)
◍	HUNTER ICV ELECTRIC VALVE. SIZE AS SHOWN BELOW. INSTALL VALVE IN A 11"X17" PURPLE VALVE BOX AND COVER 0-25 GPM=1" 26-50 GPM=1 1/2" 51 AND HIGHER GPM=2"
Ⓒ	CONTROLLER- HUNTER ACC2 (TWO-WIRE) (3 LOCATIONS) WHERE SHOWN ON THE PLAN. INSTALL WITH A HUNTER WIRELESS MINI-CLIK RAIN SENSOR. GROUND AS PER DETAILS. SLEEVE TO AS REQUIRED.
Ⓟ	POINT OF CONNECTION TO A 2" RECLAIMED WATER METER. REFER TO THE UTILITY PLAN FOR THE EXACT LOCATION AND DETAILS. (3 LOCATIONS)

NO RISERS SHALL BE USED AS PER CITY OF APOPKA CODE

HUNTER MP ROTATOR NOZZLES ARE SHOWN INSTEAD OF DRIP IRRIGATION AS PER PRIOR APPROVAL OF THE CITY OF APOPKA

NOZZLE CHART

LETTER	SPEC.	COLOR	G.P.M. 40 PSI	DISTANCE	RADIUS	ZONE LABELS
A	MP2000	RED	1.47	19'	FULL 360°	
B	MP CORNER	TURQUOISE	.45	14'	CORNER 105°	
C	MP CORNER	TURQUOISE	.19	14'	CORNER 45°	
D	MP2000	BLACK	.74	19'	HALF 180°	
F	MP2000	BLACK	.40	19'	QUARTER 90°	
G	MP END STRIP	COPPER	.22	5' X 15'	END STRIP	
H	RAIN_XPCN	BLACK	.23	4.5'	HALF PATTERN	
K	MP815	OLIVE	1.87	8'-16'	FULL 360°	
M	MP SIDE S	BROWN	.44	5' X 30'	SIDE STRIP	
S	MP815	MAROON	.49	8'-16'	90 °- 180°	
T	MP815	MAROON	.93	8'-16'	90 °- 180°	
V	MP3000	BLUE	.86	30'	QUARTER 90°	
W	MP3000	BLUE	1.82	30'	HALF 180°	
X	MP3000	YELLOW	2.73	30'	THREE QTR. 270°	
Y	MP3000	GRAY	3.64	30'	FULL 360°	
Z	MP2000	GREEN	1.10	19'	THREE QTR. 270°	



THE NOZZLES LISTED SHOW THE TYPE OF MP ROTATOR NOZZLE THAT SHOULD BE USED. THE CONTRACTOR SHOULD INSTALL CORRECT NOZZLE IN EACH HEAD AS SHOWN BY THE LETTER BESIDE THE HEAD ON THE PLAN. DO NOT USE MP1000 SERIES NOZZLES. THE GPM, DISTANCE AND ANGLE ON THE NOZZLE CHART ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST ALL NOZZLES TO PROVIDE THE 100% COVERAGE, BUT LIMIT OVERTHROW ON TO BUILDINGS, WALLS, PAVEMENT, ETC. THE HEADS SHALL BE SPACED AS PER THE PLAN. SCALE THE PLAN FOR DISTANCE. DO NOT ASSUME THAT ALL HEADS ARE SPACED AS PER CONVENTIONAL SPRAY HEADS. THE PRECIPITATION RATE FOR THESE NOZZLES IS LESS THAN A CONVENTIONAL SPRAY NOZZLE. FOLLOW THE ZONE CHART FOR AN APPROXIMATE RUN TIME FOR EACH ZONE, BUT SET THE RUN TIME ON THE CONTROLLER BASED ON THE SPECIFIC SITE CONDITIONS. DO NOT SUBSTITUTE WITH STANDARD NOZZLES.

REFERR TO SHEET L500 FOR THE ZONE CHARTS

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CROSSROADS AT KELLY PARK
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IRRIGATION LEGEND, DETAILS & NOTES

PH 1-2, 1-3 & 2: MASTER INFRASTRUCTURE AND MASS GRADING

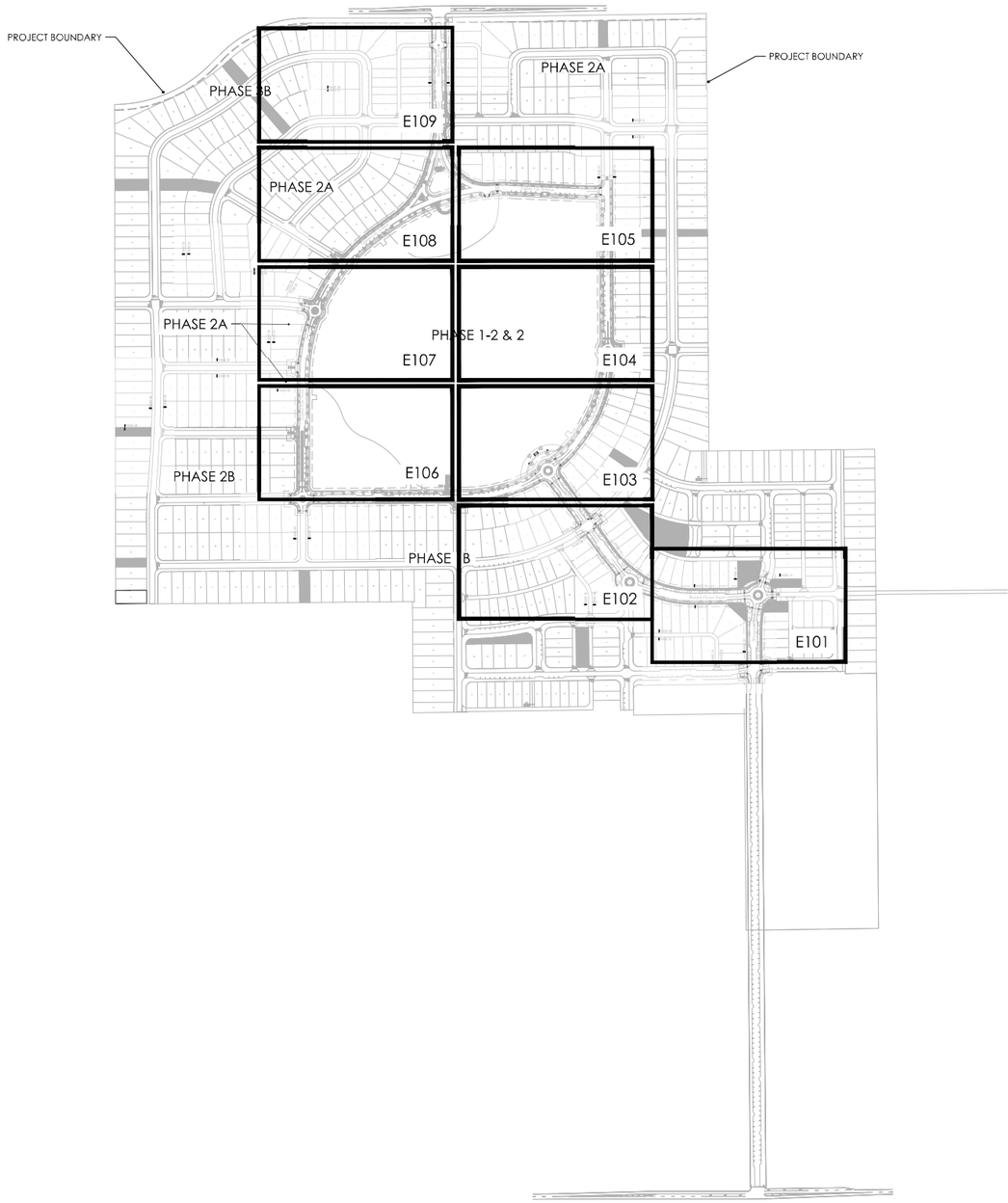
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DRAWN BY: BRL
CHECKED BY: TWB
JOB NUMBER: 2022.144
FILE NAME:

REVISIONS:
1 DRC Comments 04-03-2023

Todd W. Bonnett, BLA # FLA0001718

L510

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MPE JOB #: 2021-164

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OVERALL LIGHTING PLAN

PHASE 1-2 & 2

DATE: April 3, 2023
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CHECKED BY: BP
JOB NUMBER: 2022.150
FILE NAME: [redacted]

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2 REV 2 05-15-2023
3 REV 4 08-07-2023

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Professional Engineer
License No. 74529

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E100

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Luminaire Schedule

Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
■	272	Sher1 & 2-50W3K-CA-Type II ■	Single	SHER1 & 2-50W3K-CA-TYPE ■	A1	0,900	5108	51,7	14062,4

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	2,87	6,5	0,1	28,70	65,00

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Apopka, Florida
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PHASE 1-2 & 2

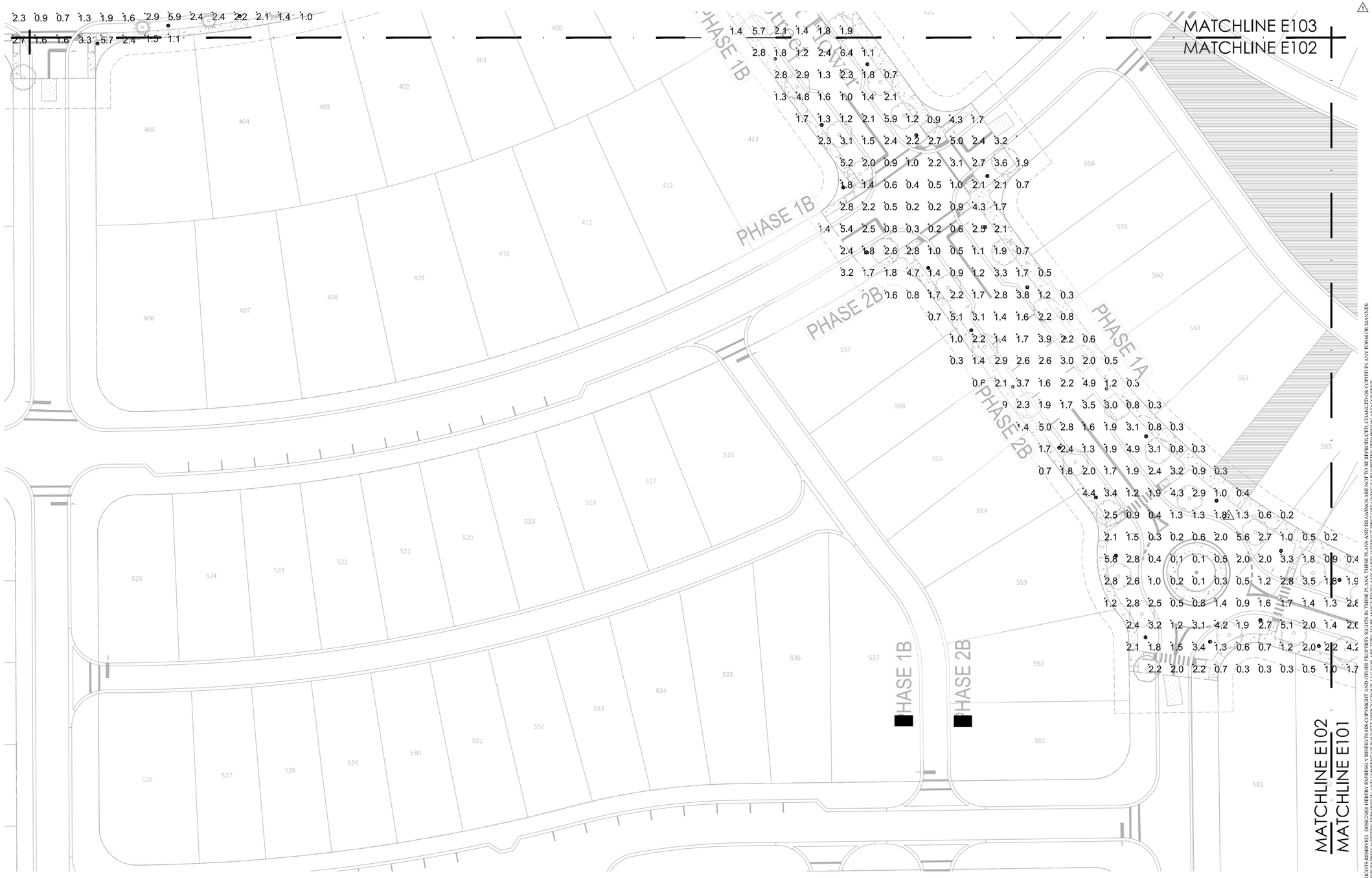
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FILE NAME:

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3 REV 4 08-07-2023

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E101

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REFER TO SHEET E301 FOR LIGHT FIXTURE SPECIFICATION

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	272	Short & 2-50W3K-CA-Type III	Single	SHER1 & 2-50W3K-CA-TYPE III	A1	0.900	5108	51.7	14062.4

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	2.87	6.5	0.1	28.70	65.00

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PHASE 1-2 & 2

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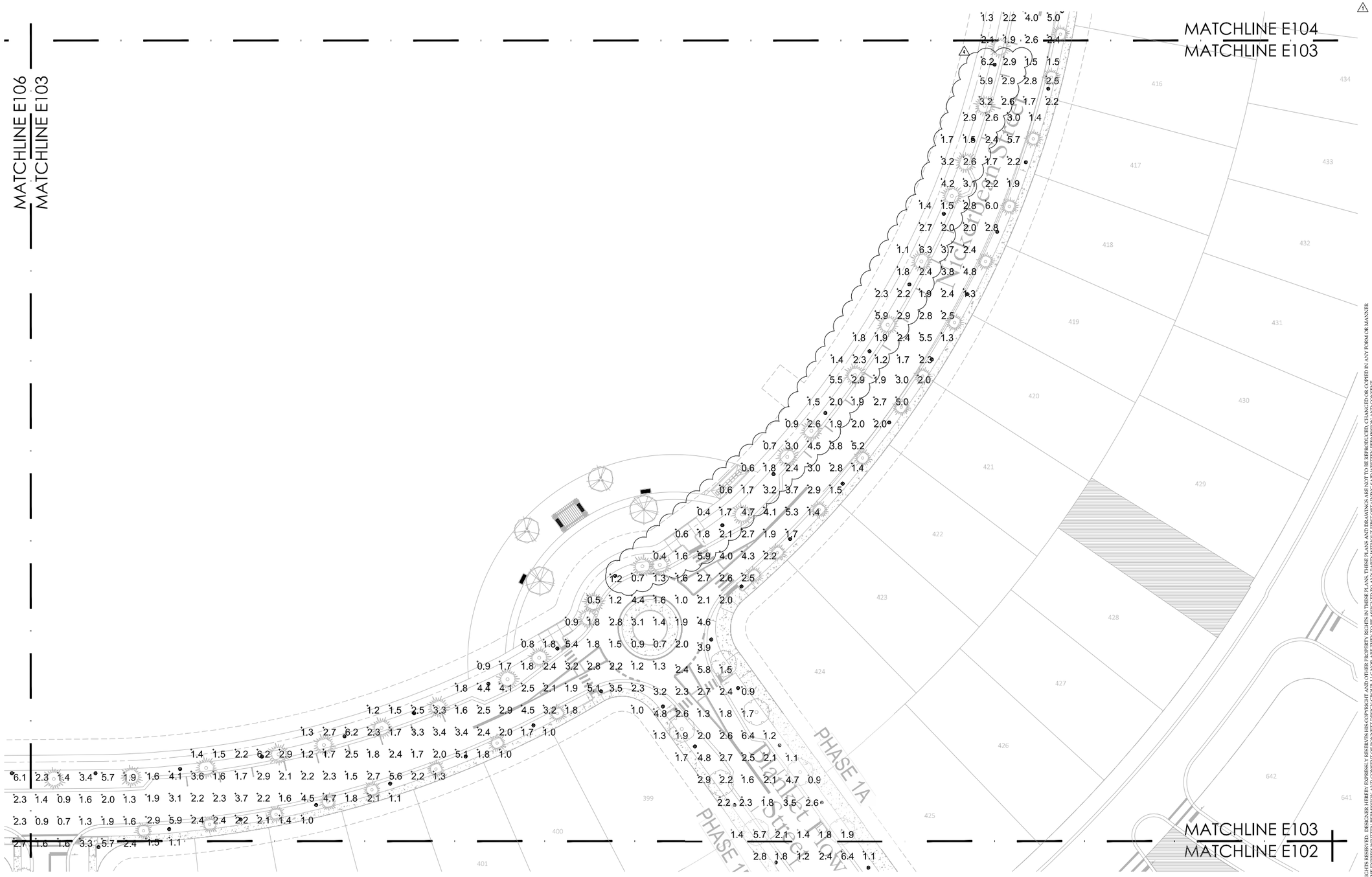
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MATCHLINE E106
MATCHLINE E103

MATCHLINE E104
MATCHLINE E103



MATCHLINE E103
MATCHLINE E102

REFER TO SHEET E301 FOR LIGHT FIXTURE SPECIFICATION

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	272	Sher1 & 2-50W3K-CA-Type ■	Single	SHER1 & 2-50W3K-CA-TYPE ■	A1	0.900	5188	51.7	14062.4

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	■minance	Fc	2.87	6.5	0.1	28.70	65.00

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PHASE 1-2 & 2

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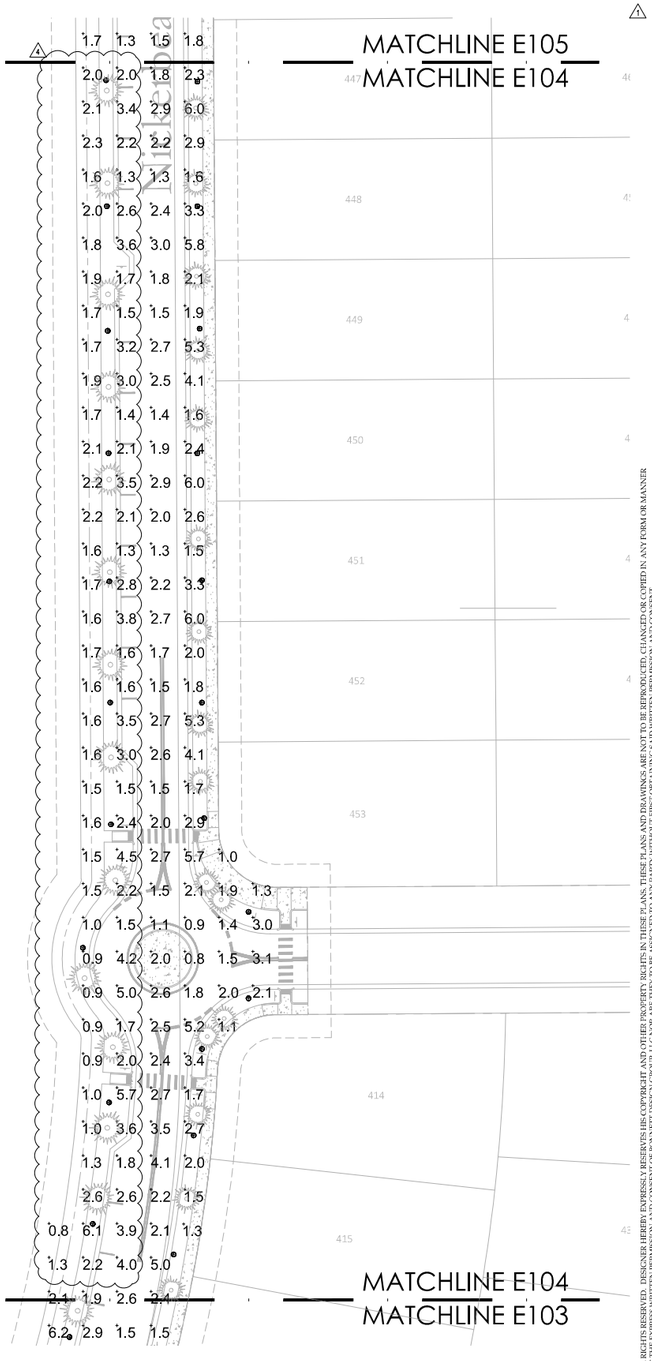
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MATCHLINE E107
MATCHLINE E104



REFER TO SHEET E301 FOR LIGHT FIXTURE SPECIFICATION

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	272	Sher1 & 2-50W3K-CA-Type III	Single	SHER1 & 2-50W3K-CA-TYPE III	A1	0.900	5108	51.7	14062.4

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	2.87	6.5	0.1	28.70	65.00

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CROSSROADS AT KELLY PARK - NE

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Dream Finders Homes

Apopka, Florida

LIGHTING PLAN

PHASE 1-2 & 2

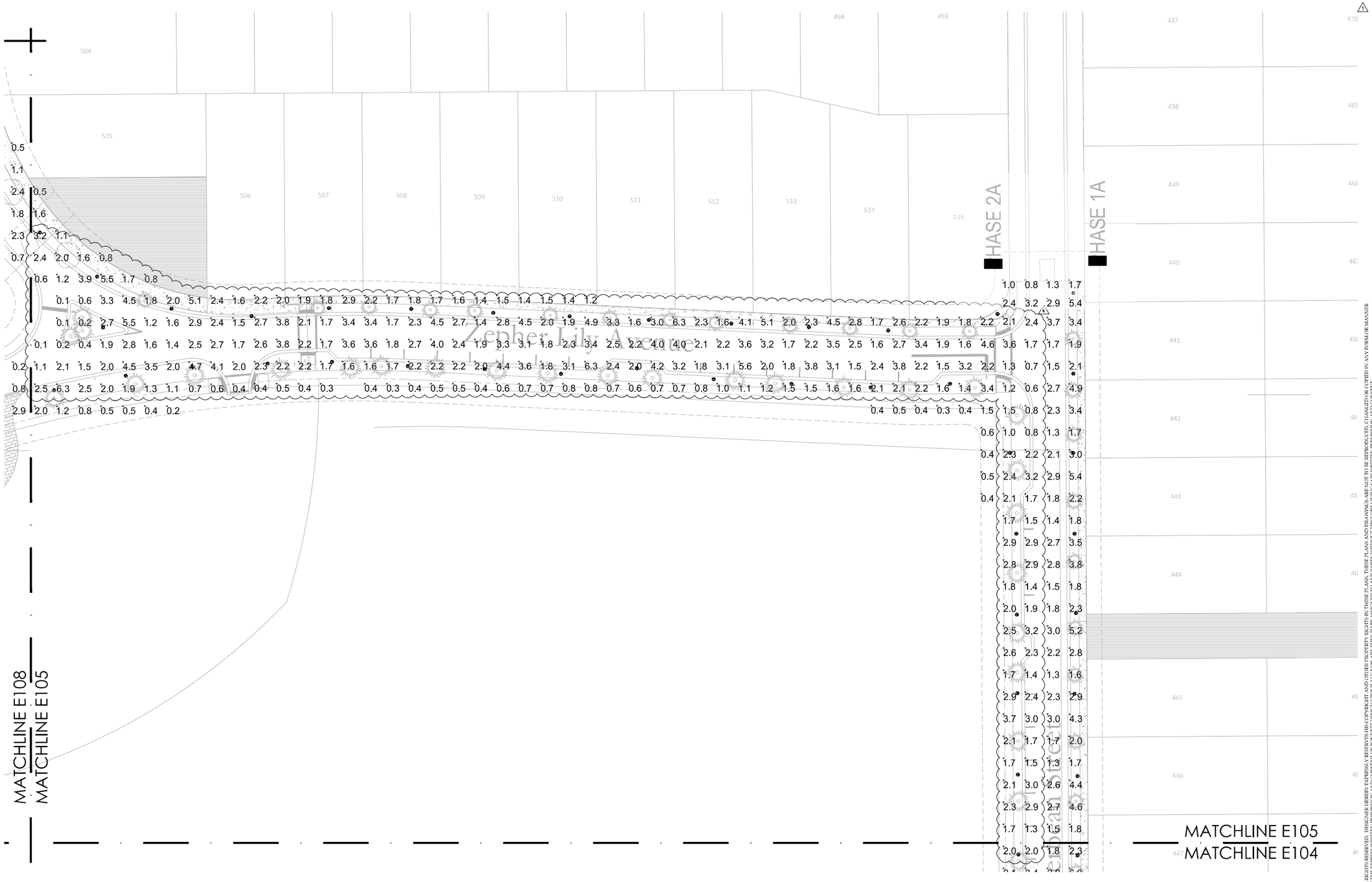
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E104

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REFER TO SHEET E301 FOR LIGHT FIXTURE SPECIFICATION

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	272	Sher1 & 2-50W3K-CA-Type ■	Single	SHER1 & 2-50W3K-CA-TYPE ■	A1	0,900	5108	51,7	14062,4

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	2,87	6,5	0,1	28,70	65,00

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PHASE 1-2 & 2

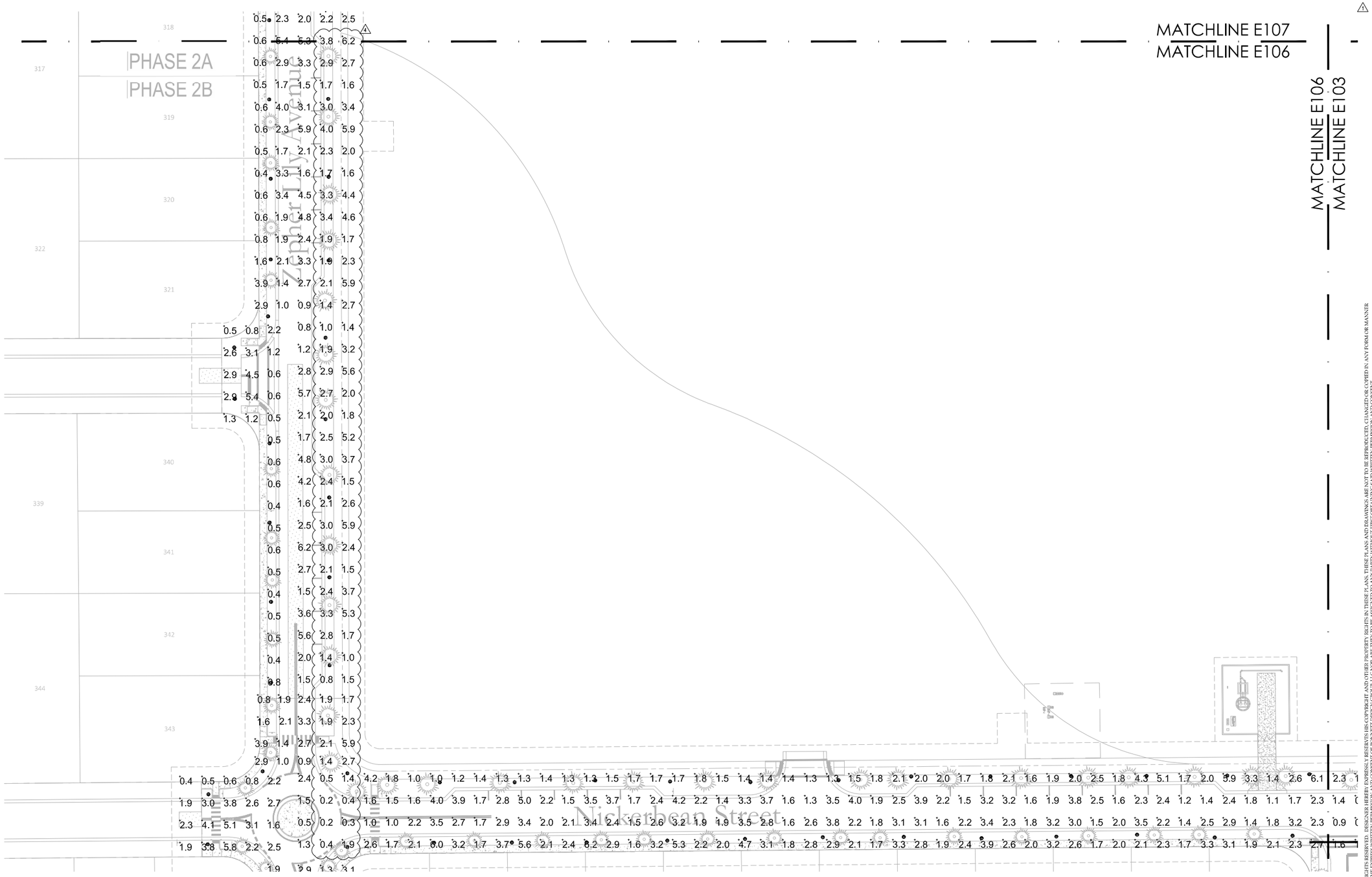
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E105

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\\MATTERS4\PROJECTS\2021_V3\005-2021-164_KELLY PARK\DEVELOPMENT PHOTOMETRICS DRG\CAD__PHASE 1-2 & 2 PACKAGE\2022.150_E100_LP301.DWG



REFER TO SHEET E301 FOR LIGHT FIXTURE SPECIFICATION

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	272	Short & 2-50W3K-CA-Type III	Single	SHER1 & 2-50W3K-CA-TYPE III	A1	0.900	5108	51.7	14062.4

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	2.87	6.5	0.1	28.70	65.00

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MPE JOB #: 2021-164

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CROSSROADS AT KELLY PARK - NE
Landscape Architecture
Dream Finders Homes
Apopka, Florida
LIGHTING PLAN

PHASE 1-2 & 2

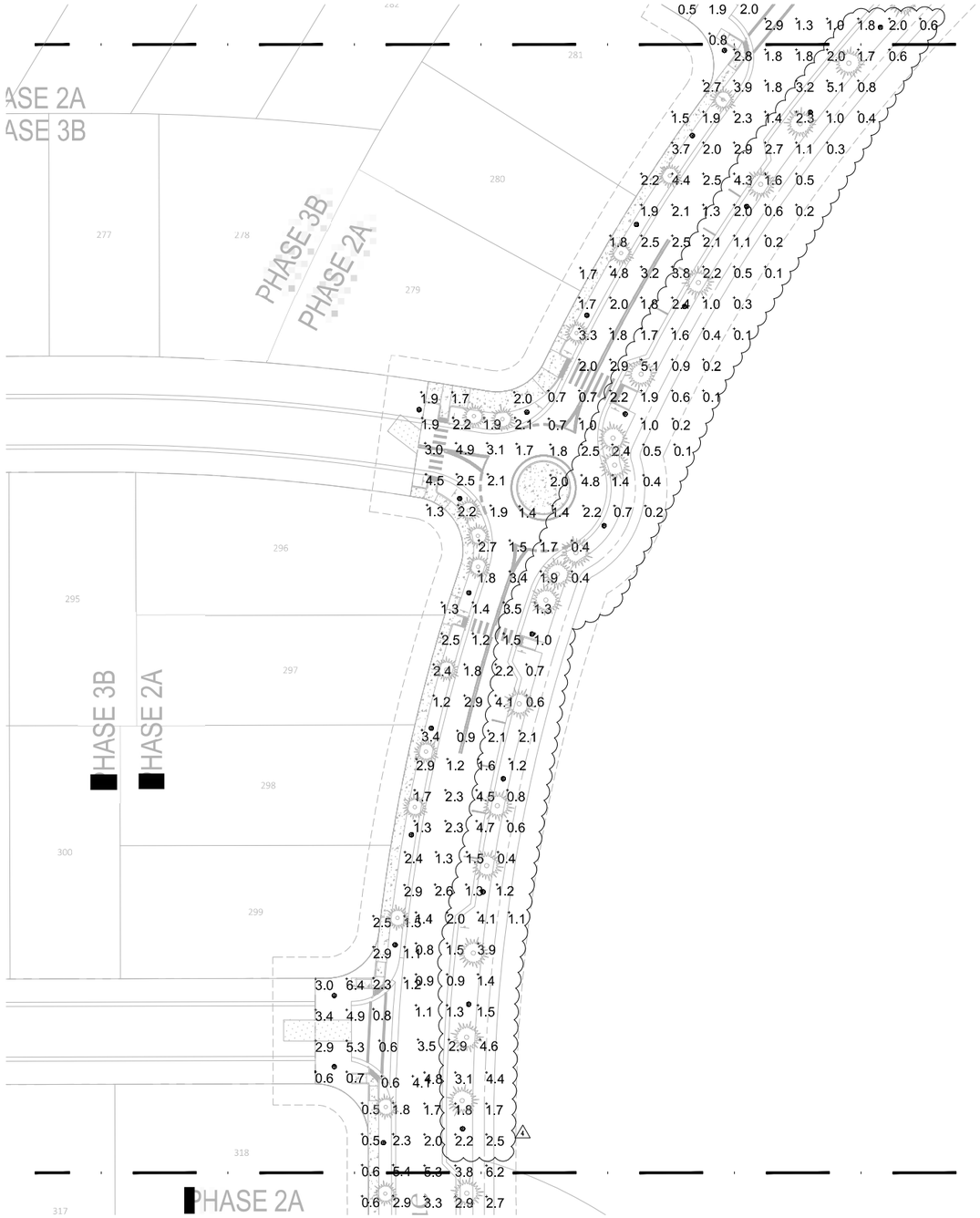
DATE: April 3, 2023
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JOB NUMBER: 2022.150
FILE NAME:

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1 REV 1 04-03-2023
2 REV 2 05-15-2023
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E106

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MATCHLINE E108
MATCHLINE E107

MATCHLINE E107
MATCHLINE E104

MATCHLINE E107
MATCHLINE E106

REFER TO SHEET E301 FOR LIGHT FIXTURE SPECIFICATION

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	272	Short & 2-50W3K-CA-Type III	Single	SHER1 & 2-50W3K-CA-TYPE III	A1	0.900	5108	51.7	14062.4

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	2.87	6.5	0.1	28.70	65.00

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CROSSROADS AT KELLY PARK - NE
Landscape Architecture
Dream Finders Homes
Apopka, Florida
LIGHTING PLAN

PHASE 1-2 & 2

DATE: April 3, 2023
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FILE NAME:

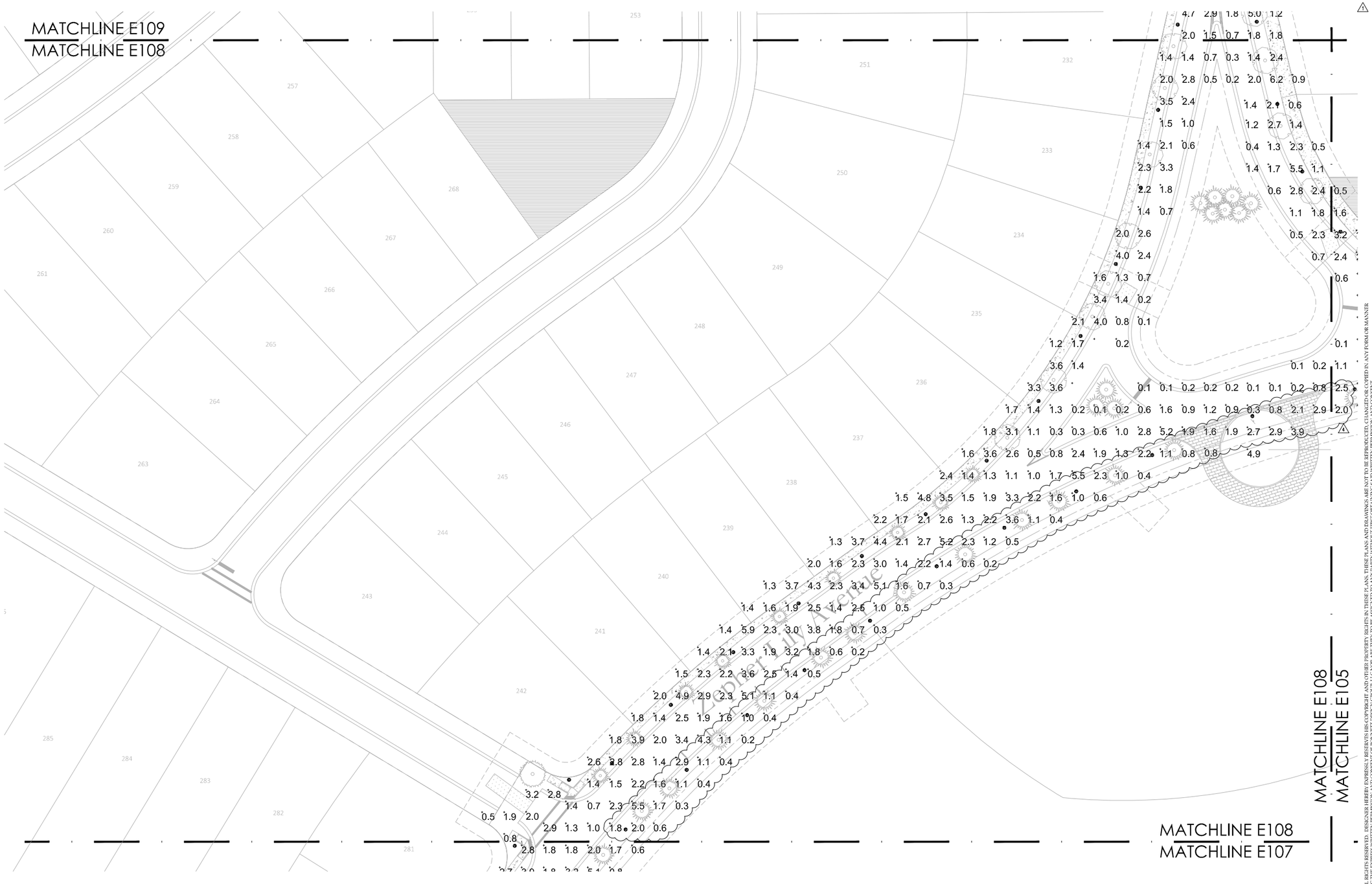
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E107

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\\MATERN-FILPROJECTS\2021_Q3\05-2021-164_KELLY PARK DEVELOPMENT PHOTOMETRICS\CAD__PHASE 1-2 & 2 PACKAGE\2022.150_E100_E301.DWG

MATCHLINE E109
MATCHLINE E108



REFER TO SHEET E301 FOR LIGHT FIXTURE SPECIFICATION

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	272	Sheri & 2-50W3K-CA-Type III	Single	SHERI & 2-50W3K-CA-TYPE III	A1	0.900	5168	51.7	14062.4

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	2.87	6.5	0.1	28.70	65.00

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CROSSROADS AT KELLY PARK - NE
Landscape Architecture
Dream Finders Homes
Apopka, Florida
LIGHTING PLAN

PHASE 1-2 & 2

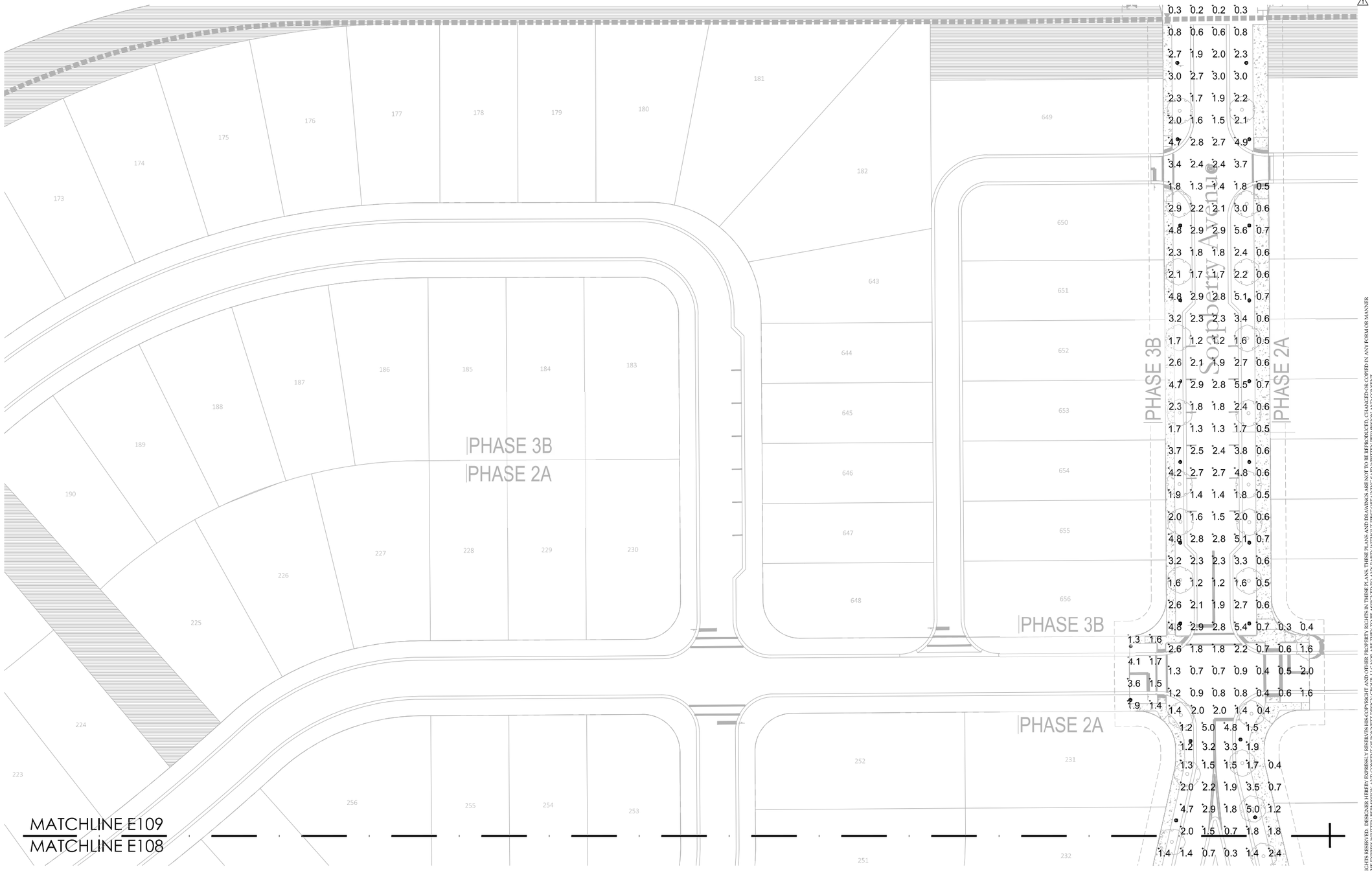
DATE: April 3, 2023
DRAWN BY: APP
CHECKED BY: BP
JOB NUMBER: 2022.150
FILE NAME:

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1 REV 1 04-03-2023
2 REV 2 05-15-2023
3 REV 4 08-07-2023

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E108

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REFER TO SHEET E301 FOR LIGHT FIXTURE SPECIFICATION

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	272	Short & 2-50W3K-CA-Type III	Single	SHER1 & 2-50W3K-CA-TYPE III	A1	0.900	5108	51.7	14062.4

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	2.87	6.5	0.1	28.70	65.00

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CROSSROADS AT KELLY PARK - NE
Landscape Architecture
Dream Finders Homes
Apopka, Florida
LIGHTING PLAN

PHASE 1-2 & 2

DATE: April 3, 2023
DRAWN BY: APP
CHECKED BY: BP
JOB NUMBER: 2022.150
FILE NAME:

REVISIONS:
1 REV 1 04-03-2023
2 REV 2 05-15-2023
3 REV 4 08-07-2023

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State of Florida
Professional Engineer
License No. 74529

CN=Bradley J Pascarella, E=brad@bonnettdesigngroup.com, OU=Bonnett Design Group, O=BONNETT DESIGN GROUP, INC., C=US
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E109

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Outdoor Lighting

Monticello LED



Perhaps nothing symbolizes Main Street America quite as well as the classic Monticello. The glass globe incorporates the historic elegance of an eight-sided lantern, and there's a timeless beauty in every carefully crafted detail.

LED (Light-emitting diode)	50 watts
Mounting height	12'
Color	Black
Pole	Decorative concrete
Applications	Neighborhoods Parks Shopping centers Streets

For additional information, visit us at **duke-energy.com/OutdoorLighting** or call us toll free at **866.769.6417**.

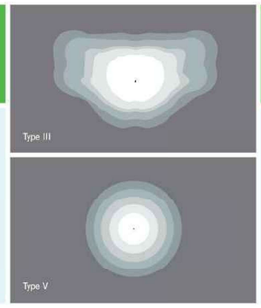
DUKE ENERGY.

BUILDING A SMARTER ENERGY FUTURE®

Outdoor Lighting

Monticello LED

Light source: LED *(white)*
Wattage: 50
Lumens: 4,650
Light pattern: IESNA Type III (oval)
IESNA Type V (circular)
IESNA cutoff classification: Semi-cutoff
Color temperature: 3,000K



light distribution pattern

Decorative poles available:

Name	*Mounting height*	*Color*
Colonial concrete	12'	Black
Victorian concrete	12'	Black, Gray-Green
Washington concrete	12'	Black, Gray

Features	Benefits
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance included	Eliminates high and unexpected repair bills
Electricity included	Less expensive than metered service
Warranty included	Worry-free
One low monthly cost on your electric bill	Convenience and savings for you
Turnkey operation	Provides hassle-free installation and service
Backed by over 40 years of experience	A name you can trust today ... and tomorrow

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CROSSROADS AT KELLY PARK - NE

Landscape Architecture

Dream Finders Homes

Apopka, Florida

LIGHTING CUTSHEET

PHASE 1-2 & 2

DATE: April 3, 2023
DRAWN BY: APP
CHECKED BY: BP
JOB NUMBER: 2022.150
FILE NAME: [redacted]

REVISIONS:
1 REV 1 04-03-2023
2 REV 2 05-15-2023
3 REV 4 08-07-2023

Bradley J. Pascarella, P.E.
State of Florida
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License No. 74529
[redacted]
Bradley J Pascarella, PE # 74529

E301

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\\MATERN4\PROJECTS\2021_JOBS\2021-164_KELLY PARK DEVELOPMENT PHOTOMETRICS DRG\CAD__PHASE 1-2 & 2 PACKAGE\2022.150_E100_LP301.DWG

SITE DATA:

1. OCPA - PARCEL ID #: 19-20-28-0000-00-042, 19-20-28-0000-00-008, 19-20-28-0000-00-039, 19-20-28-0000-00-009
2. PROPERTY ADDRESS: 3251, 3125 W PONKAN PINES RD, 3103 PONKAN PINES RD, APOPKA, FL 32703
3. TOTAL PROPERTY AREA: ±31.49 Ac.
4. EXISTING FUTURE LAND USE: RLS
5. ADJACENT FUTURE LAND USE:
   - NORTH: MU (CITY)
   - SOUTH: FLU-IP (CITY), LD (COUNTY), RLS (CITY)
   - EAST: INST_PU (CITY)
   - WEST: MU (CITY), R (COUNTY)
6. EXISTING ZONING: RSF-1B
7. ADJACENT ZONING:
   - NORTH: MU-ES-GT (CITY)
   - SOUTH: TRANSITIONAL/RSF-1A (CITY), A-1 (COUNTY)
   - EAST: OFFICE (CITY)
   - WEST: MU-ES-GT (CITY), A-R (COUNTY)
8. SETBACKS:
   - FRONT YARD: 25 FT.
   - SIDE YARD: 10 FT.
   - BACK YARD: 25 FT.
   - CORNER YARD: 25 FT.
9. MINIMUM LOT AREA: 10,400 SF
10. MINIMUM LIVING AREA: 1,600 SF
11. LOT COUNT
    TOTAL: 61 UNITS
12. SCHOOL AGE CHILDREN:
    SINGLE FAMILY:
    ELEMENTARY = 61 DU * 0.169 CHILD/DU — 11 SCHOOL AGE CHILDREN
    MIDDLE = 61 DU * 0.092 CHILD/DU — 6 SCHOOL AGE CHILDREN
    HIGH = 61 DU * 0.145 CHILD/DU — 9 SCHOOL AGE CHILDREN
    TOTAL: 26 SCHOOL AGE CHILDREN
13. OPEN SPACE
    REQUIRED OPEN SPACE (30%)
    (TOTAL DEVELOPABLE AREA) * 30%
    (31.49 AC) * 30% = 9.45 AC. — 9.45 AC.
    PROVIDED OPEN SPACE
    - LANDSCAPE BUFFER: 1.36 AC.
    - OPEN SPACE: 3.98 AC.
    - KARST / OPEN SPACE: 2.87 AC.
    - STORMWATER POND: 1.98 AC.
    - TOTAL: 10.19 AC. (32.36 %)
14. PARKING SPACES REQUIRED:
    2 SPACES PER DWELLING UNIT: 122 STALLS
    TOTAL: 122 STALLS
    *PER APOPKA LDC TABLE 5.1.6.A: MINIMUM NUMBER OF OFF-STREET VEHICULAR PARKING SPACES
15. PARKING SPACES PROPOSED:
    80' LOT (2 CAR GARAGE / 2 DRWY): 244 STALLS
    TOTAL: 244 STALLS

THE PLAT FOR THE SUBDIVISION SHALL BE SUBMITTED WITH THE CONSTRUCTION SITE PLAN.

DRIVEWAYS WILL BE CONSTRUCTED PER CITY OF APOPKA LAND DEVELOPMENT CODE SECTIONS 5.13.3(C)(9) & 5.13.3(C)(10). NO RESIDENTIAL DRIVEWAY SHALL BE PERMITTED WITHIN 40 FEET OF AN INTERSECTION. NO EDGE OF A RESIDENTIAL DRIVEWAY SHALL BE CLOSER THAN FIVE FEET TO THE ADJOINING LOT OR PARCEL.

A FRONT ENTRY GARAGE MUST BE SET BACK A MINIMUM OF THIRTY (30) FEET FROM THE PROPERTY LINE PER CITY OF APOPKA DEVELOPMENT DESIGN GUIDELINES SECTION 3.2.1.

LOT DATA

LOT	LOT AREA	BUILDABLE AREA	LOT FRONTAGE	OWNER
LOT 1	10,543 SF	4,908 SF	80.00 LF	PRIVATE
LOT 2	10,561 SF	4,920 SF	80.00 LF	PRIVATE
LOT 3	10,578 SF	4,930 SF	80.00 LF	PRIVATE
LOT 4	10,595 SF	4,943 SF	80.00 LF	PRIVATE
LOT 5	10,844 SF	5,329 SF	58.27 LF	PRIVATE
LOT 6	24,719 SF	14,418 SF	35.00 LF	PRIVATE
LOT 7	11,198 SF	5,438 SF	71.18 LF	PRIVATE
LOT 8	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 9	11,200 SF	5400 SF	80.00 LF	PRIVATE
LOT 10	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 11	11,198 SF	5,400 SF	80.01 LF	PRIVATE
LOT 12	10,958 SF	5,210 SF	80.16 LF	PRIVATE
LOT 13	10,837 SF	5,117 SF	78.43 LF	PRIVATE
LOT 14	11,153 SF	5,374 SF	80.09 LF	PRIVATE
LOT 15	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 16	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 17	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 18	11,237 SF	5,510 SF	67.49 LF	PRIVATE
LOT 19	22,554 SF	12,722 SF	31.76 LF	PRIVATE
LOT 20	11,001 SF	5,524 SF	47.93 LF	PRIVATE
LOT 21	10,780 SF	5,085 SF	80.00 LF	PRIVATE
LOT 22	10,816 SF	5,112 SF	80.00 LF	PRIVATE
LOT 23	10,852 SF	5,139 SF	80.00 LF	PRIVATE
LOT 24	10,889 SF	5,166 SF	80.00 LF	PRIVATE
LOT 25	10,925 SF	5,194 SF	80.00 LF	PRIVATE
LOT 26	10,961 SF	5,221 SF	80.00 LF	PRIVATE
LOT 27	10,885 SF	5,294 SF	64.07 LF	PRIVATE
LOT 28	12,619 SF	6,607 SF	56.46 LF	PRIVATE
LOT 29	13,866 SF	5,850 SF	229.27 LF	PRIVATE
LOT 30	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 31	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 32	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 33	11,153 SF	5,374 SF	80.09 LF	PRIVATE
LOT 34	10,837 SF	5,117 SF	78.43 LF	PRIVATE
LOT 35	10,958 SF	5,210 SF	80.16 LF	PRIVATE
LOT 36	11,198 SF	5,400 SF	80.01 LF	PRIVATE
LOT 37	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 38	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 39	13,866 SF	5,850 SF	229.27 LF	PRIVATE
LOT 40	13,969 SF	5,850 SF	234.85 LF	PRIVATE
LOT 41	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 42	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 43	11,195 SF	5,399 SF	80.01 LF	PRIVATE
LOT 44	10,931 SF	5,186 SF	80.16 LF	PRIVATE
LOT 45	10,853 SF	5,127 SF	80.10 LF	PRIVATE
LOT 46	11,168 SF	5,384 SF	80.07 LF	PRIVATE
LOT 47	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 48	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 49	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 50	13,969 SF	5,850 SF	234.85 LF	PRIVATE
LOT 51	12,495 SF	6,220 SF	80.31 LF	PRIVATE
LOT 52	15,065 SF	6,534 SF	248.82 LF	PRIVATE
LOT 53	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 54	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 55	11,195 SF	5,399 SF	80.01 LF	PRIVATE
LOT 56	10,931 SF	5,186 SF	81.16 LF	PRIVATE
LOT 57	10,853 SF	5,127 SF	80.10 LF	PRIVATE
LOT 58	11,168 SF	5,384 SF	80.07 LF	PRIVATE
LOT 59	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 60	11,200 SF	5,400 SF	80.00 LF	PRIVATE
LOT 61	11,200 SF	5,400 SF	80.00 LF	PRIVATE

* BUILDABLE AREA IS EQUAL TO TRACT/LOT AREA MINUS THE BUILDING SETBACK AREA

TRACT DATA

TRACT	DESCRIPTION	AREA (AC)		AREA (SF)		OWNER
TRACT 'A'	OPEN SPACE	0.27	AC	11,794.49	SF	H.O.A.
TRACT 'B'	15' LANDSCAPE BUFFER	0.67	AC	29,061.89	SF	H.O.A.
TRACT 'C'	25' LANDSCAPE BUFFER	0.61	AC	26,538.02	SF	H.O.A.
TRACT 'D'	10' LANDSCAPE BUFFER	0.04	AC	1,641.96	SF	H.O.A.
TRACT 'E'	LANDSCAPE ISLAND	0.02	AC	1,000.11	SF	H.O.A.
TRACT 'F'	LANDSCAPE ISLAND	0.01	AC	491.63	SF	H.O.A.
TRACT 'G'	PRIVATE R.O.W.	3.86	AC	168,164.81	SF	H.O.A.
TRACT 'H'	LIFT STATION	0.03	AC	1,327.19	SF	CITY
TRACT 'I'	KARST/OPEN SPACE	2.46	AC	106,978.99	SF	H.O.A.
TRACT 'J'	ROW DEDICATION	1.02	AC	44,291.49	SF	CITY
TRACT 'K'	POND TRACT	1.98	AC	86,251.97	SF	H.O.A.
TRACT 'L'	EMERGENCY ACCESS	0.08	AC	3,581.46	SF	H.O.A.
TRACT 'M'	OPEN SPACE	0.91	AC	39,651.79	SF	H.O.A.
TRACT 'N'	OPEN SPACE	2.72	AC	118,296.99	SF	H.O.A.
TRACT 'O'	KARST/OPEN SPACE	0.41	AC	17,872.99	SF	H.O.A.

NOTES:

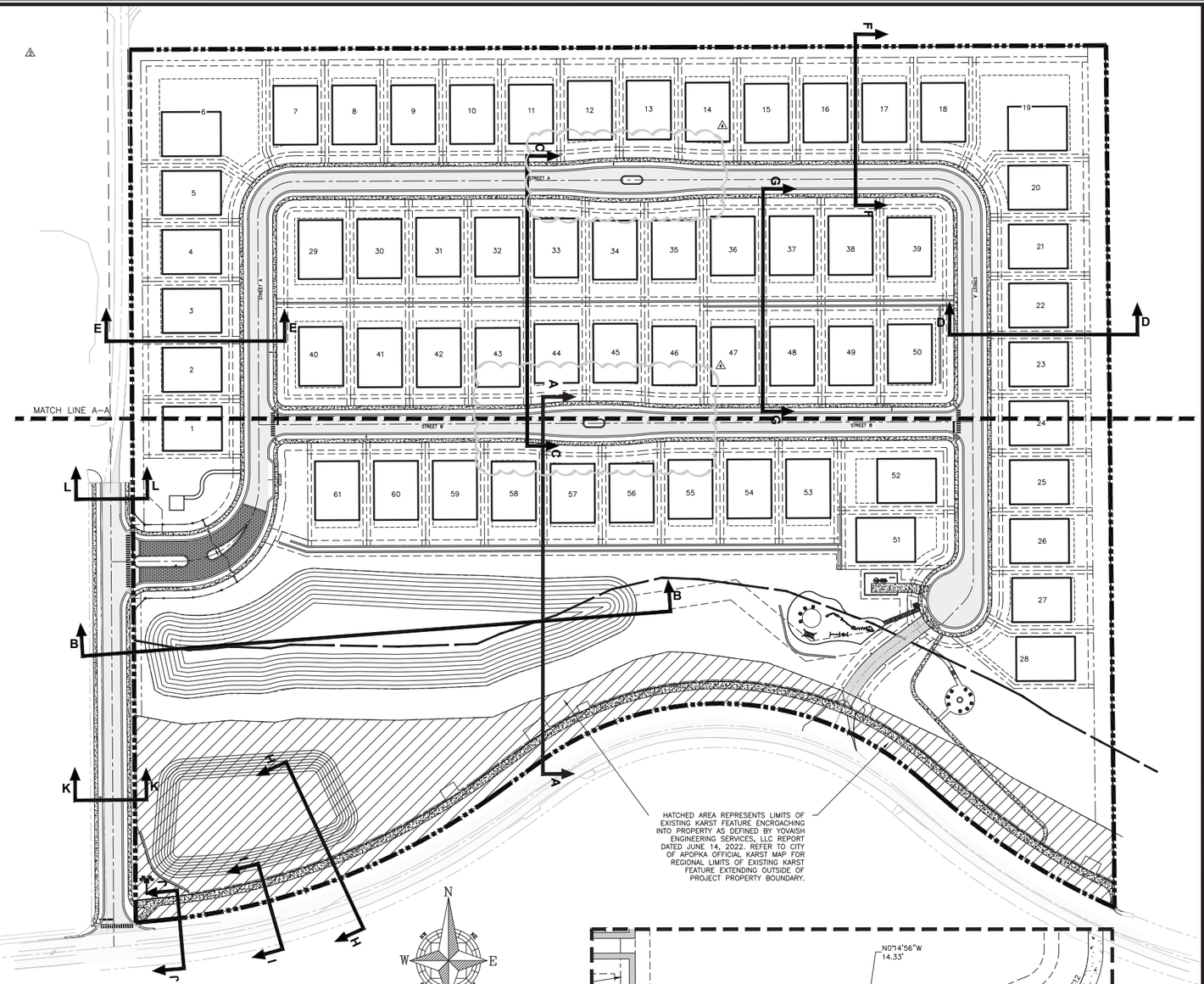
1. ACCESS GATES WILL BE REQUIRED TO HAVE 3 FORMS OF ACCESS: KNOX KEY SWITCH, A NUMERIC KEY PAD, AND SOS SIREN ACTIVATION. ⚠
2. REFER TO APPROVED O.C. R.O.W. UTILIZATION PLANS FOR CONSTRUCTION OF ALL OFFSITE IMPROVEMENTS WITHIN COUNTY RIGHT OF WAYS.
3. PER THE FLORIDA ADMINISTRATIVE CODE 62-330.051, SECTION (4)(c) 4.c., THE PROPOSED ROADWAY IMPROVEMENTS TO PONKAN PINES ROAD FALL WITHIN THE REQUIREMENTS TO BE EXEMPT FROM PERMITTING. THE WORK IS LIMITED TO: C. ROAD WIDENING AND SHOULDER PAVING THAT DOES NOT CREATE ADDITIONAL TRAFFIC LANES AND IS NECESSARY TO MEET CURRENT, GENERALLY ACCEPTED ROADWAY DESIGN AND SAFETY STANDARDS. ⚠

Sunshine 811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

PROPOSED GREEN BUILDING STANDARDS:

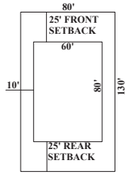
LOCATION	
- DEVELOPMENT ON PREVIOUSLY USED OR DEVELOPED LAND THAT IS NOT CONTAMINATED (SITE RE-USE)	0.50 pt.
PASSIVE SOLAR	
- ORIENT 25% OF LOTS WITHIN 20-PERCENT OF EAST-WEST AXIS	1.00 pt.*
VEGETATION	
- PRESERVE LARGE, NON-EXOTIC TREES ON SITE	1.00 pt.**
TRANSPORTATION	
- PROVIDE MORE BICYCLE PARKING THAN REQUIRED BY SEC. 5.1.11	1.00 pt.***
RESILIENCY TO NATURAL HAZARDS	
- INSTALL OPERABLE WINDOWS TO ALLOW FOR NATURAL VENTILATION IN THE EVENT OF POWER FAILURES	0.25 pt.
ENERGY CONSERVATION	
- USE VEGETATION OR VEGETATED STRUCTURES TO SHADE HVAC UNITS	0.25 pt.
TOTAL	4.00 pt.

* 18 / 61 LOTS (29% OF LOTS) WITHIN 20% OF EAST-WEST AXIS.
** 5+ LARGE, NON-EXOTIC TREES TO BE PRESERVED
*** BICYCLE PARKING RACKS TO BE SHOWN AT ASSOCIATED AMENITIES



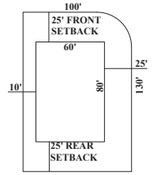
GRAPHIC SCALE
80 0 40 80 160
(IN FEET)
1 inch = 80 ft.

80' LOTS SIZE/PROPOSED BUILDING PAD



10,400 SF MIN (0.24 AC.)

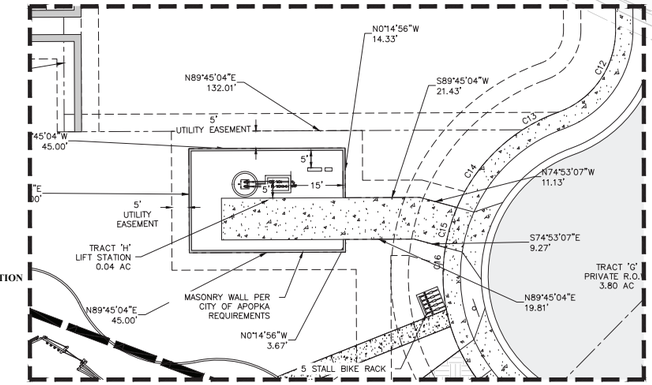
100' CORNER LOTS SIZE/PROPOSED BUILDING PAD



12,866 SF MIN (0.30 AC.)

LEGEND

- PROPERTY BOUNDARY
- LIMITS OF 30' R.O.W. DEDICATION
- EASEMENTS
- SETBACKS
- 100' KARST BUFFER
- KARST FEATURE BUFFER
- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- EMERGENCY ACCESS MATERIAL
- PROPOSED ROADWAY PAVERS



LIFT STATION DETAIL

SCALE: 1" = 20'

SHEET 12 OF 80

NO.	DATE	DESCRIPTION	BY
1	08/02/2023	LANDSCAPE ISLANDS/TRAFFIC CALMING REVISIONS DATED 08/02/2023	
2	08/22/2023	SPRING PM COMMENTS DATED 08/22/2023	
3	09/27/2023	SPRING PM COMMENTS DATED 09/27/2023	
4	01/30/2023	CITY OF APOPKA DEVELOPMENT REVIEW COMMENTS DATED 01/30/2023	

CIVIL ENGINEERING | LAND PLANNING
APPIAN ENGINEERING LLC.
APPIANFL.COM • 407.960.5868
2221 Lee Road, Suite 27, Winter Park, Florida, 32789
WWW.FACEBOOK.COM/APPIANENGINEERING

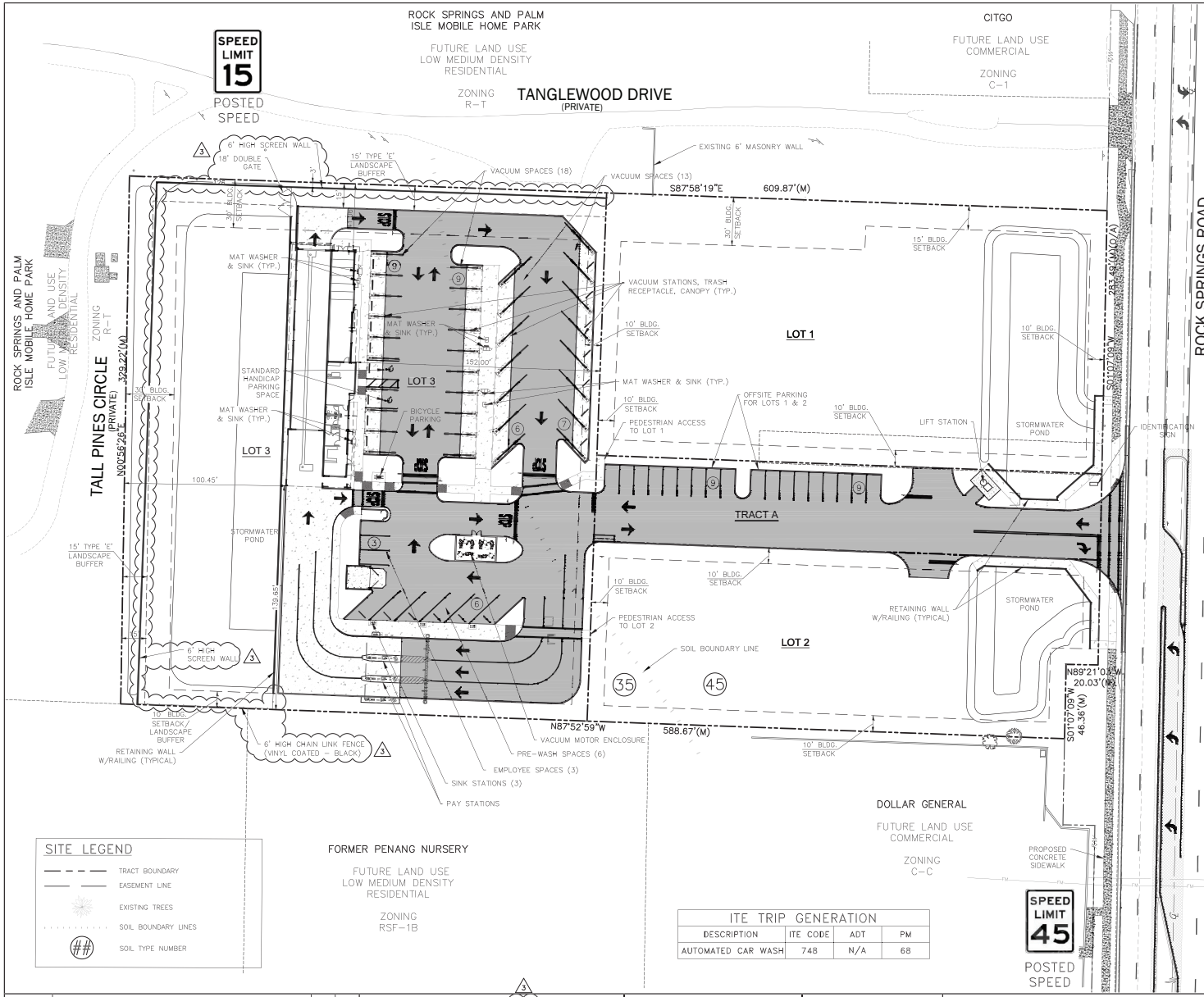
GEOMETRY PLAN – OVERALL
CONSTRUCTION SITE PLAN FOR
WOLF LAKE RANCH SUBDIVISION (FKA
PONKAN PINES SUBDIVISION)

DRAWN: T.MOORE | DESIGNED: J. PALM | CHECKED: L. CLASSON | DATE: 8/7/23
SCALE: 1" = 80' | PROJECT: MIH-004 | SHEET: C3.0

APPIAN ENGINEERING

LICENSED PROFESSIONAL ENGINEER
No. 88559
James O Palm
8/7/23
STATE OF FLORIDA

P:_PROJECT DRAWINGS\MIH-004 Ponkan Pines Subdivision\Drawings\CAD Civil3D\Layouts\04 Construction Site Plan\GEOMETRY.dwg Modified: 8/4/2023 By: tmoore



GRAPHIC SCALE
30' 0 15' 30' 60'
1" = 30'

SITE DATA

PROPERTY LOCATION: 1752, 1760, 1788 & 1774 ROCK SPRINGS ROAD

EXISTING PROPERTY ZONING:	C-C
PROPOSED PROPERTY ZONING:	C-C
PARCEL ID NUMBERS:	33-20-28-0000-00-033, 33-20-28-0000-00-034, 33-20-28-0000-00-042, 33-20-28-0000-00-048
PROPERTY FUTURE LAND USE DESIGNATION:	COMMERCIAL
EXISTING USE:	RESIDENTIAL/SINGLE FAM. CLASS II AND ORCHARD/GROVES
PROPOSED USE:	CAR WASH/RETAIL
TOTAL AREA:	4.59± ACRES
TRACT A:	0.39± ACRES
LOT 1:	1.18± ACRES
LOT 2:	0.79± ACRES
LOT 3:	2.22± ACRES
PROJECT AREA:	4.59± ACRES
PROPOSED BUILDING (LOT 3):	5,793 S.F.

BUILDING SETBACKS (REQUIRED)			BUILDING SETBACKS (PROPOSED)		
FRONT	(EAST)	10'	FRONT	(EAST)	152.00'
SIDE	(NORTH)	15'/30' (ST. SIDE/RESIDENTIAL)	SIDE	(NORTH)	41.06'
SIDE	(SOUTH)	10'	SIDE	(SOUTH)	139.65'
REAR	(WEST)	30'	REAR	(WEST)	100.45'

MAXIMUM ALLOWABLE BUILDING HEIGHT 35' — BUILDING HEIGHT (PROPOSED) 35'

BUILDING CONSTRUCTION TYPE
TYPE 2B (II (111)), UNPROTECTED

PARKING (LOT 3 & TRACT A)

PARKING REQUIRED

CARWASH (3 SPACES/BAY+1 SPACE/200 SF (1 BAY = 3 SPACES + 512 SF/200 = 3 SPACES)	6 SPACES
TOTAL PARKING REQUIRED	6 SPACES
SPACES REQUIRED TO BE RESERVED FOR HANDICAP	1 SPACES
BICYCLE PARKING (1 PER 10,000 SF)	1 SPACES

PARKING PROVIDED

PRE-WASH PARKING SPACES	6 SPACES
VACUUM PARKING SPACES (STANDARD)	29 SPACES
VACUUM PARKING SPACES (HANDICAP)	2 SPACES
HANDICAP PARKING (STANDARD)	1 SPACE
EMPLOYEE PARKING (STANDARD)	3 SPACES
TRACT A PARKING	18 SPACES
TOTAL PARKING PROVIDED	59 SPACES
BICYCLE PROVIDED	2 SPACES

SITE AREA CALCULATIONS (LOT 3 & TRACT A)

	EXISTING			PROPOSED		
BUILDING	0.00 S.F.			6,053.49 S.F.		
DUMPSTER	0.00 S.F.			225.00 S.F.		
PAVING/CURBS	0.00 S.F.			56,665 S.F.		
SIDEWALK	0.00 S.F.			5,522.58 S.F.		
IMPERVIOUS AREA	0.00 S.F.	0.000 AC.	000.00 %	68,466.07 S.F.	1.57 AC.	60.12 %
PERVIOUS AREA	96,944.35 S.F.	2.226 AC.	100.00 %	45,410.07 S.F.	1.04 AC.	39.88 %
TOTAL SITE AREA	96,944.33 S.F.	2.226 AC.	100.00 %	113,876.14 S.F.	2.61 AC.	100.00

MINIMUM OPEN SPACE REQUIRED	20 %
OPEN SPACE PROVIDED	39.88 %

FLOOD ZONE

FLOOD ZONE X PER FEMA F.I.R.M. PANEL 12095C0110H DATED: 09/24/2021

SOILS

#35 – POMELLO-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES
#45 – SMYRNA FINE SANDS – URBAN LAND COMPLEX, 0 TO 2 PERCENT SLOPES

WETLAND STATEMENT

NO WETLANDS ARE LOCATED WITHIN THE PROPERTY BOUNDARY.

HAZARDOUS MATERIALS STATEMENT

DURING CONSTRUCTION, WHEN COMBUSTIBLES ARE BROUGHT ONTO THE SITE IN SUCH QUANTITIES AS DEEMED HAZARDOUS BY THE FIRE OFFICIAL, ACCESS ROADS & A SUITABLE TEMPORARY SUPPLY OF WATER ACCEPTABLE TO THE FIRE DEPARTMENT SHALL BE PROVIDED & MAINTAINED.

LIGHTING NOTE

LIGHTING SHALL COMPLY WITH CITY OF APOPKA, FLORIDA COMMERCIAL DESIGN STANDARDS.

COMMERCIAL DESIGN STANDARDS NOTE

THE PROJECT SHALL COMPLY WITH THE COMMERCIAL DESIGN STANDARDS SET FORTH IN THE CITY OF APOPKA, FLORIDA LAND DEVELOPMENT CODE.

DUMPSTER NOTE

THE DUMPSTER SHALL HAVE OPAQUE GATING AND THE WALL SHALL HAVE A DECORATIVE CONCRETE CAP. WALL SHALL BE ARCHITECTURALLY COMPATIBLE MATERIAL TO THE PRINCIPLE BUILDING.

SIGNAGE NOTE

BILLBOARDS & POLE SIGNS SHALL BE PROHIBITED. GROUND & FASCIA SIGNS SHALL BE PER CITY OF APOPKA, FLORIDA LAND DEVELOPMENT CODE.

ITE TRIP GENERATION

DESCRIPTION	ITE CODE	ADT	PM
AUTOMATED CAR WASH	748	N/A	68

DATE	REVISIONS	BY	CHECKED
8/08/23	3 REVISED PER CITY COMMENTS	JWM	GRC
5/22/23	2 REVISED PER COUNTY COMMENTS	JWM	GRC
5/16/23	1 PER SJRWMD COMMENTS	JWM	GRC

CONSTRUCTION (SITE) PLANS
LUX CARWASH - APOPKA
1752, 1760, 1788 & 1774 ROCK SPRINGS ROAD
CITY OF APOPKA, FLORIDA

FEG FLORIDA ENGINEERING GROUP
Engineering the Future
5127 S. Orange Avenue, Suite 200
Orlando, FL 32809
Phone: 407-895-0324
Fax: 407-895-0325
www.feg-inc.us

OVERALL SITE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
GRC	JWM	GRC	GRC

PROJECT NO. 22-029
SCALE 1" = 30'
DATE MARCH 27, 2023
SHEET NO. C-7
SHEET 7 OF 27

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: GREGORY R. CRAWFORD, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Gregory R Crawford
Digitally signed By Gregory R Crawford
Date: 2023.08.09 13:49:39-04'00'

22-029 OverallSitePlan.dwg

RIDGE

A PORTION OF SECTIONS 17 AND 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA

PLAT BOOK____ PAGE ____

MORTGAGEE:
KNOW ALL MEN BY THESE PRESENTS:
That City National Bank Of Florida, a Florida Banking Corporation, the owner and holder of that Certain Mortgage, Assignment Of Rents, Security Agreement executed by Apopka Development Opportunity A Florida Limited Liability Company, Mortgagor, in favor of City National Bank Of Florida, a Florida Banking Corporation, Mortgagee, dated _____, Recorded on _____ under Instrument Number _____ together with UCC Financing Statement Recorded under instrument Number _____ all of the Public Records of _____ does hereby consent to this plat and joins in the above dedications.

In Witness Whereof:
That said City National Bank of Florida, a Florida Banking Corporation, has caused these presents to be signed for and on its behalf by _____, Its _____ and its Corporate Seal to be hereunto affixed in the presence of these two witnesses, This _____ of _____, A.D. 2023

City National Bank of Florida
A Florida Banking Corporation

By: _____
Signature
_____
Print Name
_____
Print Title

Witnesses:

_____ _____
_____ _____
Print Name Print Name

Acknowledgement:
State Of Florida
County Of _____ S.S

I hereby certify: that on this day personally appeared before me, an officer duly authorized to administer oaths and take acknowledgements, _____ as _____ of City National Bank of Florida, a Florida Banking Corporation, who is personally known to me or who has produced _____ as identification and who executed the foregoing instrument and acknowledged that the execution thereof to be his free act and deed as such officer for the purposes therein expressed and who did not take an oath.

Witness My Hand and Official Seal This _____ of _____ A.D. 2023

_____
Signature Of Person Taking Acknowledgement

Printed Name of Acknowledger: _____

Notary Public State Of: _____

Commission Number: _____

My Commission Expires: _____

Notary Seal

City National Bank of Florida
A Florida Banking Corporation
Seal

CONSENT BY COMMUNITY DEVELOPMENT DISTRICT:

KNOW ALL MEN BY THESE PRESENTS:

THE RIDGE AT APOPKA COMMUNITY DEVELOPMENT DISTRICT, A LOCAL UNIT OF SPECIAL PURPOSE GOVERNMENT ORGANIZED PURSUANT TO CHAPTER 190, FLORIDA STATUTES, HAVING A RIGHT AND INTEREST IN THE PROPERTY, WHICH IS THE SUBJECT OF THIS PLAT, PURSUANT TO THAT CERTAIN ORDINANCE NO.2859 DULY PASSED AND ADOPTED ON SEPTEMBER 8, 2021 BY THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA EFFECTIVE SEPTEMBER 8, 2021 AND THAT CERTAIN NOTICE OF ESTABLISHMENT OF THE RIDGE AT APOPKA COMMUNITY DEVELOPMENT DISTRICT DATED SEPTEMBER 16, 2021 UNDER DOCUMENT NUMBER 20210567815 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, AND AS AMENDED PURSUANT TO THAT CERTAIN ORDINANCE NO. 2948 DULY PASSED AND ADOPTED ON AUGUST 3, 2022 BY THE CITY COUNCIL OF THE CITY OF APOPKA, FLORIDA EFFECTIVE AUGUST 3, 2022, DOES HEREBY CONSENT TO THIS PLAT AND JOINS IN THE FOREGOING DEDICATIONS.

IN WITNESS WHEREOF:

THAT RIDGE AT APOPKA COMMUNITY DEVELOPMENT DISTRICT, A LOCAL UNIT OF SPECIAL PURPOSE GOVERNMENT ORGANIZED PURSUANT TO CHAPTER 190, FLORIDA STATUTES, HAS CAUSED THESE PRESENTS TO BE SIGNED FOR AND ON BEHALF OF THE UNDERSIGNED OFFICER THEREUNTO DULY AUTHORIZED ON THIS _____DAY OF _____, A.D. 2023.

By: _____
Signature
_____
Print Name:
_____
Print Title:

By: _____
_____
Printed Name of Witness

By: _____
_____
Printed Name of Witness

STATE OF
COUNTY OF

The foregoing instrument was acknowledged before me, by means of [ ] physical presence or [ ] online notarization, this ___ day of _____, 2023, by Craig S. Perry as Manager of Apopka Centerline Development, LLC, a Florida Limited Liability Company, on behalf of the company, who is [ ] is personally known to me or [ ] has produced _____as identification.

_____
SIGNATURE OF PERSON TAKING ACKNOWLEDGEMENT

NOTARY PUBLIC _____

Printed Name: _____

Commission No.: _____

My Commission Expires: _____

IN WITNESS WHEREOF, the undersigned Apopka Development Opportunity, LLC, a Florida Limited Liability Company has caused these presents to be executed and acknowledged by its undersigned Officer thereunto duly authorized on this _____ day of _____ 2023.

By: Apopka Development Opportunity, LLC, a Florida Limited Liability Company

Signed and sealed in the presence of:

By: _____
_____
Printed Name of Witness

By: _____
_____
Printed Name of Witness

By: _____
Craig S. Perry
Printed Name:
Manager
Title:

STATE OF
COUNTY OF

The foregoing instrument was acknowledged before me, by means of [ ] physical presence or [ ] online notarization, this ___ day of _____, 2023, by Craig S. Perry as Manager of Apopka Development Opportunity, LLC, a Florida Limited Liability Company, on behalf of the company, who is [ ] is personally known to me or [ ] has produced _____ as identification.

_____
SIGNATURE OF PERSON TAKING ACKNOWLEDGEMENT

NOTARY PUBLIC

Printed Name: _____

Commission No.: _____

My Commission Expires: _____

IN WITNESS WHEREOF, the undersigned Ridge 429 Owner, LLC, a Delaware Limited Liability Company has caused these presents to be executed and acknowledged by its undersigned Officer thereunto duly authorized on this _____ day of _____ 2023.

By: Ridge 429 Owner, LLC, a Delaware Limited Liability Company

Signed and sealed in the presence of:

By: _____
_____
Printed Name of Witness

By: _____
_____
Printed Name of Witness

By: _____
Steven E. McCraney
Printed Name:
Manager
Title:

STATE OF
COUNTY OF

The foregoing instrument was acknowledged before me, by means of [ ] physical presence or [ ] online notarization, this ___ day of _____, 2023, by Steven E. McCraney, as Manager of Ridge 429 Owner, LLC, a Delaware Limited Liability Company, on behalf of the company, who is [ ] is personally known to me or [ ] has produced _____as identification.

_____
SIGNATURE OF PERSON TAKING ACKNOWLEDGEMENT

NOTARY PUBLIC

Printed Name: _____

Commission No.: _____

My Commission Expires: _____

IN WITNESS WHEREOF, the undersigned Apopka Centerline Development, LLC, a Florida Limited Liability Company has caused these presents to be executed and acknowledged by its undersigned Officer thereunto duly authorized on this _____ day of _____ 2023.

By: Apopka Centerline Development, LLC, a Florida Limited Liability Company

Signed and sealed in the presence of:

By: _____
_____
Printed Name of Witness

By: _____
_____
Printed Name of Witness

By: _____
Craig S. Perry
Printed Name:
Manager
Title:

STATE OF
COUNTY OF

The foregoing instrument was acknowledged before me, by means of [ ] physical presence or [ ] online notarization, this ___ day of _____, 2023, by Craig S. Perry as Manager of Apopka Centerline Development, LLC, a Florida Limited Liability Company, on behalf of the company, who is [ ] is personally known to me or [ ] has produced _____as identification.

_____
SIGNATURE OF PERSON TAKING ACKNOWLEDGEMENT

NOTARY PUBLIC _____

Printed Name: _____

Commission No.: _____

My Commission Expires: _____

RIDGE

DEDICATION

KNOW ALL MEN BY THESE PRESENTS, That the undersigned named below, being the owners in fee simple of all of the lands described in the foregoing caption to this plat, hereby dedicate said lands and plat for the uses and purposes therein expressed and dedicates the utility easements to the perpetual use of the public.

Tract RW–1 (Right–of–Way), Tract RW–2 (Additional Right–of–Way) and Tract LS–1 (Lift Station) are hereby dedicated in fee simple to City of Apopka without any restriction whatsoever. City ownership of these Tracts and any improvements thereon vests upon approval of this Plat by the City Council of Apopka. Recording of this Plat shall act as conveyance to the City and no further instrument shall be necessary to vest fee simple title in the City as aforementioned.

IN WITNESS WHEREOF Troy S. Bronson, as to a life estate, as more particularly set forth in that certain deed recorded in Instrument No. 20210774118, of the Public Records of Orange County, Florida has executed this Dedication in the manner provided by law this day of_____2023.

Signed and sealed and delivered in our presence as witnesses:

_____
Signature:
_____
Printed Name:
_____
Signature:
_____
Printed Name:

OWNER: _____,
Troy S. Bronson
_____
Signature:
_____
Printed Name:

State of Florida, County of _____

The foregoing instrument was acknowledged before me, by means of [ ] physical presence or [ ] online notarization,this _____ day of _____, 2023, by Troy S. Bronson, such person [ ] is personally known to me or [ ] has produced _____as identification.

_____
SIGNATURE OF PERSON TAKING ACKNOWLEDGEMENT

NOTARY PUBLIC

Printed Name: _____

Commission No.: _____

My Commission Expires:_____

CERTIFICATE OF APPROVAL
BY APOPKA PLANNING COMMISSION

Examined and Approved _____
Chairman Date

CERTIFICATE OF APPROVAL
BY CITY ENGINEER

Examined and Approved _____
Richard Earp Date

CERTIFICATE OF APPROVAL BY MUNICIPALITY

THIS IS TO CERTIFY, that on_____ the foregoing plat was approved by the Municipality

_____
Mayor

Attest: _____
City Clerk

CERTIFICATE OF REVIEW BY REVIEWING SURVEYOR

Pursuant to Section 177.081, Florida Statutes, I have reviewed this plat for conformity to Chapter 177 Part 1 of the Florida Statutes and that said plat complies with the technical requirements of that chapter; provided however, that my review does not include field verification of any of the coordinates, points or measurements shown on this plat.

Signed: _____ Date _____

Printed Name: Andrew Perry, P.S.M.
Registration Number 6124

QUALIFICATION STATEMENT OF SURVEYOR AND MAPPER

KNOW ALL MEN BY THESE PRESENTS, that I the undersigned, being a licensed surveyor and mapper, do hereby certify that on _____ completed the survey of the lands as shown in the foregoing plat or plan: that said plat is a true and correct representation of the lands surveyed and platted and was prepared under my direction and supervision; that permanent reference monuments have been placed as shown thereon; and this plat complies with all the survey requirements of Chapter 177, Florida Statutes; and that said land is located in the City of Apoka, Orange County, Florida.

By: _____ Date: _____

James L. Rickman P.S.M. # 5633

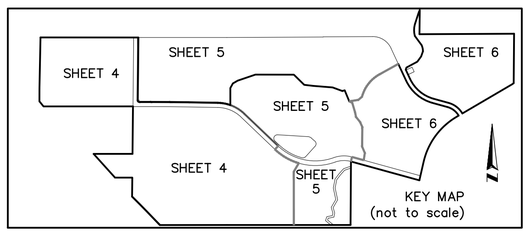
Allen & Company
Licensed Business # 6723
16 East Plant Street
Winter Garden, Florida 34787

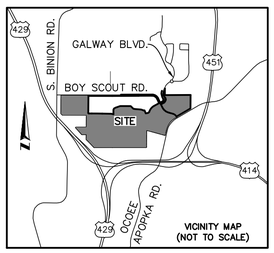
CERTIFICATE OF COUNTY COMPTROLLER

I HEREBY CERTIFY, that the foregoing plat was recorded in the Orange County Official Records on _____ as Doc.# _____

County Comptroller in and for Orange County, Florida.

By_____





ALLEN & COMPANY
Founded in 1988
SURVEYING • MAPPING
GEOSPATIAL SERVICES
www.allen-company.com
LICENSED BUSINESS #6723
16 EAST PLANT STREET
WINTER GARDEN, FLORIDA 34787
(407) 654-5355 FAX (407) 654-5356

SHEET INDEX

SHEET 1 OF 6 – DEDICATION
SHEET 2 OF 6 – NOTES, LEGEND & LEGAL DESCRIPTION
SHEET 3 OF 6 – BOUNDARY INFORMATION
SHEETS 4–6 OF 6 LOT & TRACT GEOMETRY

NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

RIDGE

A PORTION OF SECTIONS 17 AND 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA

PLAT BOOK_____ PAGE _____

SURVEYOR'S NOTES:

1. BEARINGS SHOWN HEREON ARE ASSUMED AND BASED ON THE NORTH LINE OF THE SOUTHEAST 1/4 OF SECTION 18–21–28 AS BEING AN ASSUMED BEARING OF SOUTH 89°58'43" EAST.
2. ALL LOT LINES INTERSECTING CURVES ARE RADIAL, UNLESS OTHERWISE NOTED NON–RADIAL (NR).
3. ALL PLATTED UTILITY EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION AND DATA SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES. THIS SECTION SHALL NOT APPLY TO THOSE PRIVATE EASEMENTS GRANTED TO OR OBTAINED BY A PARTICULAR ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL SAFETY CODE AS ADOPTED BY THE FLORIDA PUBLIC SERVICE COMMISSION.
4. TRACT C–1 (CONSERVATION AREA TRACT AND UPLAND BUFFER) SHALL TO BE OWNED BY THE RIDGE AT APOPKA COMMUNITY DEVELOPMENT DISTRICT (CDD) WITH DEVELOPMENT RIGHTS DEDICATED TO ST. JOHNS RIVER WATER MANAGEMENT DISTRICT. NO CLEARING, GRADING OR ALTERATION IS PERMITTED WITHOUT APPROVAL BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
5. TRACT R–1 (RECREATION/STORMWATER POND TRACT) SHALL BE OWNED AND MAINTAINED BY CDD.
6. TRACTS SW–1 AND SW–2 (STORMWATER TRACTS) SHALL BE OWNED AND MAINTAINED BY THE CDD.
7. TRACT OS–1 (OPEN SPACE TRACT) SHALL BE OWNED AND MAINTAINED BY THE CDD.
8. THE ACCESS EASEMENT OVER A PORTION OF TRACT R–1 IS DEDICATED TO AND MAINTAINED BY THE CDD.

LEGEND:

OR	Official Records Book
PG(S)	page(s)
PC	point of curvature
PT	point of tangency
PI	point of intersection
PRC	point of reverse curvature
R/W	right–of–way
CCR #	Certified Corner Record Number
■	set 4" x 4" concrete monument LB 6723 permanent reference monument (P.R.M.) unless otherwise noted
◎	set nail and disk stamped LB 6723 permanent reference monument (P.R.M.)
⊡	found 4" x 4" concrete monument LB 7153 permanent reference monument (P.R.M.), unless otherwise noted
ID	identification
NR	non–radial
NT	non–tangent
PB	Plat Book
DB	Deed Book
L.B.	licensed business
◉	set nail & disk, LB #6723 permanent control point (P.C.P.)
℄	centerline
LLC	limited liability company
SRB	State Road Book
	change in direction along lot & right–of–way lines
	limited access right–of–way line
U.E.	utility easement
CDD	Community Development District
ELY	Easterly
NLY	Northerly
WLY	Westerly
SLY	Southerly
R=	Radius
CB=	Chord Bearing
C=	Chord Length
Δ	Central Angle
L=	Arc Length
(OA)	Overall

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LEGAL DESCRIPTION

PARCEL 1

A PARCEL OF LAND COMPRISING PORTIONS OF SECTIONS 17 AND 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF THE SOUTHWEST 1/4 OF AFORESAID SECTION 17; THENCE RUN SOUTH 00°00'38 EAST ALONG THE WEST LINE OF SAID SOUTHWEST 1/4 OF SECTION 17 FOR A DISTANCE OF 30.00 FEET TO A POINT ON THE SOUTHERLY RIGHT–OF–WAY LINE OF BOY SCOUT ROAD, AS MONUMENTED AND MAINTAINED, ALSO BEING A POINT ON THE NORTH LINE OF BRONSON'S RIDGE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK _____, PAGE_____ OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE RUN NORTH 89°43'16" EAST ALONG SAID SOUTH RIGHT–OF–WAY LINE AND SAID NORTH LINE FOR A DISTANCE OF 1345.56 FEET; THENCE CONTINUE ALONG SAID SOUTH RIGHT–OF–WAY LINE ACCORDING TO OFFICIAL RECORDS BOOK 433, PAGE 608 OF SAID PUBLIC RECORDS AND SAID NORTH LINE THE FOLLOWING COURSES: NORTH 89°43'16" EAST FOR A DISTANCE OF 691.45 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 282.10 FEET WITH A CHORD BEARING OF SOUTH 57°37'34" EAST AND A CHORD DISTANCE OF 304.41 FEET; THENCE RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 65°18'17" FOR A DISTANCE OF 321.53 FEET TO A POINT ON A NON TANGENT LINE; THENCE RUN SOUTH 24°58'39" EAST FOR A DISTANCE OF 241.59 FEET TO THE MOST EASTERLY CORNER OF SAID BRONSON'S RIDGE AND THE POINT OF BEGINNING; THENCE DEPARTING SAID NORTH LINE OF BRONSON'S RIDGE RUN ALONG SAID SOUTHERLY RIGHT–OF–WAY LINE THE FOLLOWING COURSES: SOUTH 24°58'39" EAST FOR A DISTANCE OF 258.86 FEET TO POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 571.26 FEET WITH A CHORD BEARING OF SOUTH 49°46'08" EAST AND A CHORD DISTANCE OF 479.08 FEET; THENCE RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 49°34'58" FOR A DISTANCE OF 494.36 FEET TO A POINT OF TANGENCY; THENCE RUN SOUTH 74°33'37" EAST FOR A DISTANCE OF 220.12 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 260.75 FEET WITH A CHORD BEARING OF SOUTH 52°27'06" EAST AND A CHORD DISTANCE OF 196.27 FEET; THENCE RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 44°13'02" FOR A DISTANCE OF 201.23 FEET TO A POINT ON THE NON TANGENT WESTERLY RIGHT–OF–WAY LINE OF OCOEE–APOPKA ROAD, COUNTY ROAD 437A, ACCORDING TO ORLANDO–ORANGE COUNTY EXPRESSWAY AUTHORITY RIGHT–OF–WAY MAP PROJECT NUMBER 429–200; THENCE RUN THE FOLLOWING COURSES ALONG SAID WESTERLY RIGHT–OF–WAY LINE: SOUTH 59°38'41" WEST FOR A DISTANCE OF 31.35 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 984.93 FEET WITH A CHORD BEARING OF SOUTH 36°16'07" WEST AND A CHORD DISTANCE OF 781.57 FEET; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 46°45'08" FOR A DISTANCE OF 803.68 FEET TO A POINT OF TANGENCY; THENCE RUN SOUTH 12°53'33" WEST FOR A DISTANCE OF 264.64 FEET; THENCE DEPARTING SAID WESTERLY RIGHT–OF–WAY LINE RUN NORTH 74°37'52" WEST FOR A DISTANCE OF 991.60 FEET; THENCE RUN SOUTH 00°22'08" WEST FOR A DISTANCE OF 886.88 FEET TO A POINT ON THE SOUTH LINE OF THE SOUTHWEST 1/4 OF AFORESAID SECTION 17; THENCE RUN NORTH 89°59'43" WEST ALONG SAID SOUTH LINE AND THE NORTHERLY LIMITED ACCESS RIGHT–OF–WAY LINE OF STATE ROAD 414, APOPKA EXPRESSWAY ACCORDING TO ORLANDO–ORANGE COUNTY EXPRESSWAY AUTHORITY RIGHT–OF–WAY MAP, PROJECT NO. 429–200 FOR A DISTANCE OF 1728.15 FEET TO THE SOUTHWEST CORNER OF SAID SECTION 17 AND THE SOUTHEAST CORNER OF AFORESAID SECTION 18; THENCE RUN SOUTH 89°54'43" WEST ALONG THE SOUTH LINE OF SAID SECTION 18 AND SAID NORTHERLY LIMITED ACCESS RIGHT–OF–WAY LINE OF STATE ROAD 414, APOPKA EXPRESSWAY FOR A DISTANCE OF 936.11 FEET TO A POINT ON THE EASTERLY LIMITED ACCESS RIGHT–OF–WAY LINE OF STATE ROAD 429, WESTERN BELTWAY ACCORDING TO OFFICIAL RECORDS BOOK 9046, PAGE 4349 AND EFFICIAL RECORDS BOOK 9398, PAGE 1729 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE RUN THE FOLLOWING COURSES ALONG SAID EASTERLY LIMITED ACCESS RIGHT–OF–WAY LINE: NORTH 43°34'16" WEST FOR A DISTANCE OF 104.57 FEET TO A POINT ON A NON–TANGENT CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 14808.00 FEET WITH A CHORD BEARING OF NORTH 44°26'37" WEST AND A CHORD DISTANCE OF 451.84 FEET; THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 01°44'54" FOR A DISTANCE OF 451.86 FEET TO A POINT ON A NON TANGENT LINE; THENCE RUN NORTH 00°33'55" EAST FOR A DISTANCE OF 264.76 FEET; THENCE RUN SOUTH 89°58'55" WEST FOR A DISTANCE OF 241.14 FEET; THENCE RUN NORTH 42°01'34" WEST FOR A DISTANCE OF 446.22 FEET; THENCE RUN NORTH 89°57'09" EAST FOR A DISTANCE OF 543.15 FEET; THENCE RUN NORTH 00°33'55" EAST FOR A DISTANCE OF 663.72 FEET; THENCE RUN SOUTH 89°58'47" WEST FOR A DISTANCE OF 1250.31 FEET; THENCE RUN NORTH 38°59'13" WEST FOR A DISTANCE OF 91.06 FEET TO A POINT ON THE EAST RIGHT–OF–WAY LINE OF BINION ROAD ACCORDING TO STATE ROAD BOOK 1, PAGE 40 OF SAID PUBLIC RECORDS; THENCE RUN NORTH 00°14'15" EAST FOR A DISTANCE OF 742.29 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE EASTERLY HAVING A RADIUS OF 5689.65 FEET WITH A CHORD BEARING OF NORTH 00°59'41" EAST AND A CHORD DISTANCE OF 150.42 FEET; THENCE RUN NORTHERLY ALONG SAID EAST RIGHT–OF–WAY LINE AND THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 01°30'53" FOR A DISTANCE OF 150.42 FEET TO A POINT ON AFORESAID SOUTHERLY RIGHT–OF–WAY LINE OF AFORESAID BOY SCOUT ROAD ACCORDING TO OFFICIAL RECORDS BOOK 1076, PAGE 548 OF AFORESAID PUBLIC RECORDS; THENCE RUN SOUTH 89°58'43" EAST ALONG SAID SOUTHERLY RIGHT–OF–WAY LINE ACCORDING OFFICIAL RECORDS BOOK 1076, PAGE 548 AND OFFICIAL RECORDS BOOK 1133, PAGE 608 OF SAID PUBLIC RECORDS FOR A DISTANCE OF 1411.05 FEET TO A POINT ON A NON TANGENT CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 35.00 FEET, A CHORD BEARING OF SOUTH 45°17'33 WEST AND A CHORD DISTANCE OF 49.26 FEET; THENCE DEPARTING SAID SOUTHERLY RIGHT–OF–WAY LINE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 89°27'28 FOR A DISTANCE OF 54.65 FEET TO A POINT OF TANGENCY; THENCE RUN SOUTH 00°33'49 WEST FOR A DISTANCE OF 810.75 FEET TO THE POINT OF CURVATURE OF A NORTHEASTERLY HAVING A RADIUS OF 55.00 FEET, A CHORD BEARING OF SOUTH 44°42'31 EAST AND A CHORD DISTANCE OF 78.15 FEET; THENCE RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 90°32'40 FOR A DISTANCE OF 86.92 FEET TO A POINT OF TANGENCY; THENCE RUN SOUTH 89°58'51 EAST FOR A DISTANCE OF 128.63 FEET TO THE POINT OF CURVATURE OF CURVE CONCAVE SOUTHERLY HAVING A RADIUS OF 30065.00 FEET, A CHORD BEARING OF SOUTH 89°28'20 EAST AND A CHORD DISTANCE OF 533.99 FEET; THENCE RUN EASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 01°01'04 FOR A DISTANCE OF 534.00 FEET TO A POINT OF TANGENCY; THENCE RUN SOUTH 88°57'48 EAST FOR A DISTANCE OF 403.65 FEET TO THE POINT OF CURVATURE OF CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 544.50 FEET, A CHORD BEARING OF SOUTH 79°40'53 EAST AND A CHORD DISTANCE OF 175.65 FEET; THENCE RUN SOUTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 18°33'50 FOR A DISTANCE OF 176.42 FEET TO A NON–TANGENT POINT ON THE SOUTHERLY LINE OF AFORESAID BRONSON'S RIDGE; THENCE RUN ALONG SAID SOUTHERLY LINE THE FOLLOWING COURSES: NORTH 00°03'18 EAST FOR A DISTANCE OF 238.05 FEET; THENCE RUN NORTH 28°41'04 EAST FOR A DISTANCE OF 73.35 FEET; THENCE RUN NORTH 60°11'31 EAST FOR A DISTANCE OF 79.12 FEET; THENCE RUN NORTH 71°09'55 EAST FOR A DISTANCE OF 261.11 FEET; THENCE RUN SOUTH 89°53'27 EAST FOR A DISTANCE OF 536.22 FEET; THENCE RUN SOUTH 45°36'26 EAST FOR A DISTANCE OF 203.03 FEET; THENCE RUN SOUTH 83°27'57 EAST FOR A DISTANCE OF 130.71 FEET; THENCE RUN SOUTH 85°25'10 EAST FOR A DISTANCE OF 268.38 FEET; THENCE RUN SOUTH 69°38'20 EAST FOR A DISTANCE OF 144.79 FEET; THENCE RUN NORTH 71°32'09 EAST FOR A DISTANCE OF 34.37 FEET; THENCE RUN SOUTH 22°27'50 EAST FOR A DISTANCE OF 167.34 FEET; THENCE RUN NORTH 80°59'34 EAST FOR A DISTANCE OF 127.19 FEET; THENCE RUN NORTH 10°22'51 EAST FOR A DISTANCE OF 66.34 FEET; THENCE RUN NORTH 18°30'04 EAST FOR A DISTANCE OF 34.88 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 505.00 FEET, A CHORD BEARING OF NORTH 39°46'19 EAST AND A CHORD DISTANCE OF 366.41 FEET; THENCE RUN NORTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 42°32'31 FOR A DISTANCE OF 374.96 FEET TO THE POINT OF TANGENCY; THENCE RUN NORTH 61°02'34 EAST FOR A DISTANCE OF 300.88 FEET TO THE POINT OF BEGINNING.

CONTAINS 195.62 ACRES MORE OR LESS.

TOGETHER WITH

PARCEL 2

A PARCEL OF LAND COMPRISING A PORTION OF SECTION 17, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF SOUTHWEST 1/4 OF AFORESAID SECTION 17; THENCE RUN NORTH 89°43'16 EAST ALONG THE NORTH LINE OF THE SOUTHWEST 1/4 OF SAID SECTION 17 FOR A DISTANCE OF 2622.09 FEET TO A POINT ON THE EASTERLY RIGHT–OF–WAY LINE OF GALWAY BOULEVARD, BRECKENRIDGE PHASE 1, ACCORDING TO PLAT THEREOF AS RECORDED IN PLAT BOOK 64, PAGES 74 THROUGH 81 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA AND THE POINT OF BEGINNING, BEING A POINT ON A NON TANGENT CURVE CONCAVE EASTERLY HAVING A RADIUS OF 300.00 FEET WITH A CHORD BEARING OF NORTH 03°29'44" EAST AND A CHORD DISTANCE OF 150.01 FEET; THENCE RUN THE FOLLOWING COURSES ALONG SAID EASTERLY RIGHT–OF–WAY LINE: THENCE NORTHERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 28°57'23" FOR A DISTANCE OF 151.62 FEET TO A POINT OF TANGENCY; THENCE RUN NORTH 17°58'25" EAST FOR A DISTANCE OF 149.75 FEET TO THE POINT OF CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 405.00 FEET WITH A CHORD BEARING OF NORTH 21°32'19" EAST AND A CHORD DISTANCE OF 50.37 FEET; THENCE RUN NORTHEASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 07°07'48" FOR A DISTANCE OF 50.40 FEET TO A NON TANGENT POINT LYING ON THE WEST LINE OF THE NORTHEAST 1/4 OF AFORESAID SECTION 17; THENCE DEPARTING SAID EASTERLY RIGHT–OF–WAY LINE RUN SOUTH 00°44'46" WEST ALONG SAID WEST LINE OF THE NORTHEAST 1/4 OF SECTION 17 FOR A DISTANCE OF 338.71 FEET TO THE NORTHWEST CORNER OF THE SOUTHEAST 1/4 OF SECTION 17; THENCE RUN NORTH 89°43'16" EAST ALONG THE NORTH LINE OF SAID SOUTHEAST 1/4 FOR A DISTANCE OF 1322.50 FEET TO THE NORTHEAST CORNER OF THE NORTHWEST 1/4 OF SAID SOUTHEAST 1/4 OF SECTION 17; THENCE RUN SOUTH 00°26'42" WEST ALONG THE EAST LINE OF SAID NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17 FOR A DISTANCE OF 690.44 FEET TO A POINT ON THE WESTERLY RIGHT–OF–WAY LINE OF OCOEE–APOPKA ROAD, COUNTY ROAD 437–A, ACCORDING TO THE ORLANDO–ORANGE COUNTY EXPRESSWAY AUTHORITY RIGHT–OF–WAY MAP, PROJECT NO. 429–200 AND A POINT ON A NON TANGENT CURVE CONCAVE NORTHWESTERLY HAVING A RADIUS OF 375.87 FEET WITH A CHORD BEARING OF SOUTH 56°26'10" WEST AND A CHORD DISTANCE OF 42.08 FEET; THENCE RUN SOUTHWESTERLY ALONG SAID WESTERLY RIGHT–OF–WAY LINE AND THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 06°25'02" FOR A DISTANCE OF 42.10 FEET TO A POINT OF TANGENCY; THENCE RUN SOUTH 59°38'41" WEST ALONG SAID WESTERLY RIGHT–OF–WAY LINE FOR A DISTANCE OF 791.31 FEET TO A POINT ON THE NORTHERLY RIGHT–OF–WAY LINE OF BOY SCOUT ROAD, ACCORDING TO OFFICIAL RECORDS BOOK 1133, PAGE 608 OF AFORESAID PUBLIC RECORDS AND A POINT ON A NON TANGENT CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 320.75 FEET WITH A CHORD BEARING OF NORTH 52°27'10" WEST AND A CHORD DISTANCE OF 241.42 FEET; THENCE RUN THE FOLLOWING COURSES ALONG SAID NORTHERLY RIGHT–OF–WAY LINE OF BOY SCOUT ROAD: THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 44°12'53" FOR A DISTANCE OF 247.52 FEET TO A POINT OF TANGENCY; THENCE RUN NORTH 74°33'37" WEST FOR A DISTANCE OF 220.12 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 511.26 FEET WITH A CHORD BEARING OF NORTH 49°46'08" WEST AND A CHORD DISTANCE OF 428.76 FEET; THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 49°34'58" FOR A DISTANCE OF 442.44 FEET TO A POINT OF TANGENCY; THENCE RUN NORTH 24°58'39" WEST FOR A DISTANCE OF 141.70 FEET TO A POINT ON AFORESAID EASTERLY RIGHT–OF–WAY LINE OF GALWAY BOULEVARD; THENCE RUN THE FOLLOWING COURSES ALONG SAID EASTERLY RIGHT–OF–WAY LINE: THENCE NORTH 16°33'33" EAST FOR A DISTANCE OF 30.96 FEET; THENCE RUN NORTH 61°41'11" EAST FOR A DISTANCE OF 173.78 FEET; THENCE RUN NORTH 36°05'04" EAST FOR A DISTANCE OF 90.60 FEET; THENCE RUN NORTH 19°14'42" EAST FOR A DISTANCE OF 74.95 FEET TO A POINT ON A NON TANGENT CURVE CONCAVE WESTERLY HAVING A RADIUS OF 213.50 FEET WITH A CHORD BEARING OF NORTH 12°56'36" WEST AND A CHORD DISTANCE OF 93.42 FEET; THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 25°16'34" FOR A DISTANCE OF 94.19 FEET TO A POINT ON A NON TANGENT LINE; THENCE RUN NORTH 36°19'00" WEST FOR A DISTANCE OF 153.53 FEET TO A POINT ON A NON–TANGENT CURVE CONCAVE EASTERLY HAVING A RADIUS OF 300.00 FEET WITH A CHORD BEARING OF NORTH 13°25'27" WEST AND A CHORD DISTANCE OF 25.56 FEET; THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 04°52'59" FOR A DISTANCE OF 25.57 FEET TO THE POINT OF BEGINNING.

CONTAINS 29.21 ACRES MORE OR LESS.

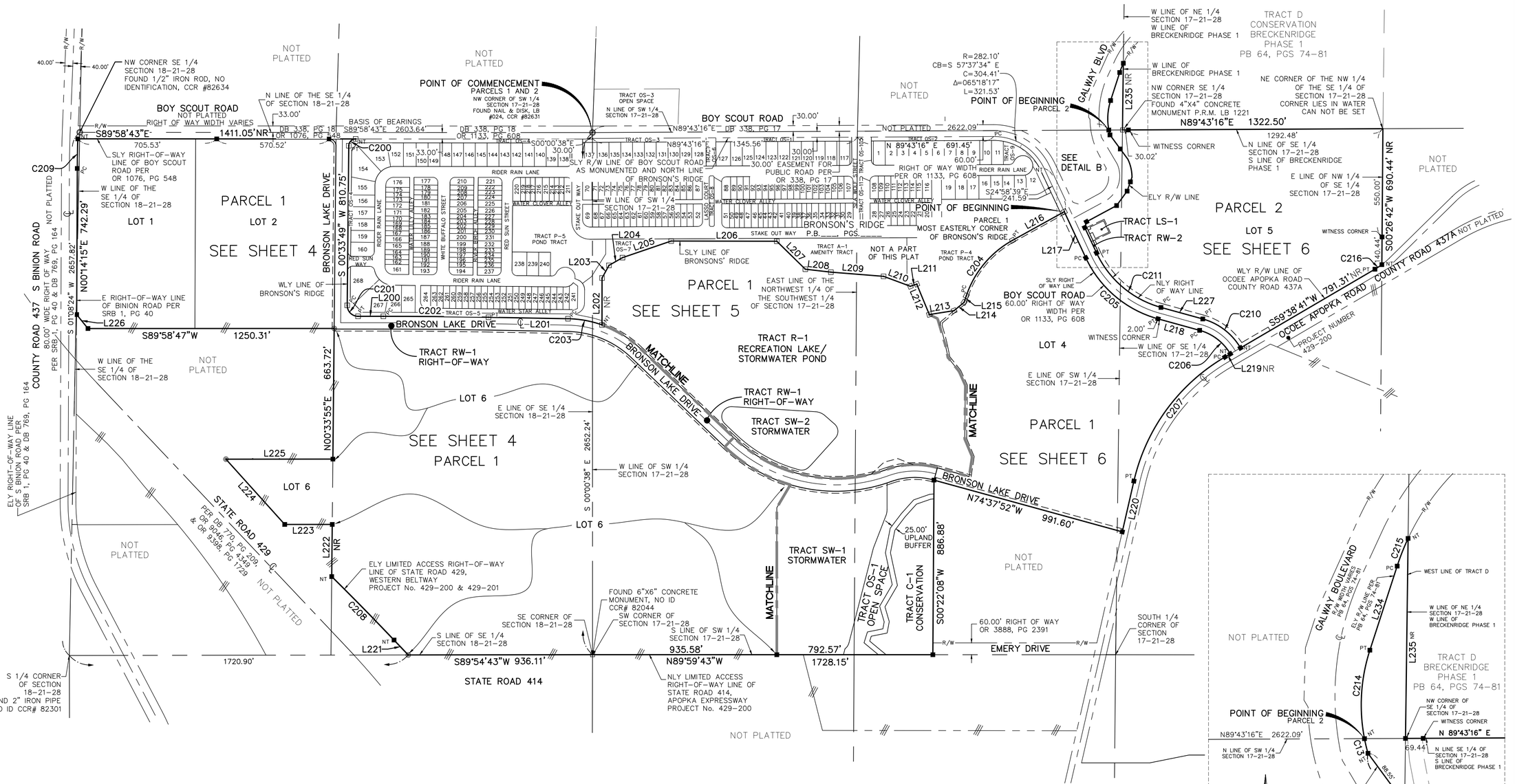
SHEET INDEX

SHEET 1 OF 6 – DEDICATION
SHEET 2 OF 6 – NOTES, LEGEND & LEGAL DESCRIPTION
SHEET 3 OF 6 – BOUNDARY INFORMATION
SHEETS 4–6 OF 6 LOT & TRACT GEOMETRY

RIDGE

A PORTION OF SECTIONS 17 AND 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA

PLAT BOOK____ PAGE _____



LINE TABLE		
LINE	BEARING	LENGTH
L200	S89°58'51"E	128.63'
L201	S88°57'48"E	403.65'
L202	N00°03'18"E	238.05'
L203	N28°41'04"E	73.35'
L204	N60°11'31"E	79.12'
L205	N71°09'55"E	261.11'
L206	S89°53'27"E	536.22'
L207	S45°36'26"E	203.03'
L208	S83°27'57"E	130.71'
L209	S85°25'10"E	268.38'
L210	S69°38'20"E	144.79'
L211	N71°32'09"E	34.37'
L212	S22°27'50"E	167.34'
L213	N80°59'34"E	127.19'
L214	N50°22'51"E	66.34'
L215	N18°30'04"E	34.88'
L216	N61°02'34"E	300.88'
L217	S24°58'39"E	258.86'
L218	S74°33'37"E	220.12'
L219	S59°38'41"W	31.35'
L220	S12°53'33"W	264.64'
L221	N43°34'16"W	104.57'

LINE TABLE		
LINE	BEARING	LENGTH
L222	N00°33'55"E	264.76'
L223	S89°58'55"W	241.14'
L224	N42°01'34"W	446.22'
L225	N89°57'09"E	543.15'
L226	N38°59'13"W	91.06'
L227	N74°33'37"W	220.12'
L228	N24°58'39"W	141.70'
L229	N16°33'33"E	30.96'
L230	N61°41'11"E	173.78'
L231	N36°05'04"E	90.60'
L232	N19°14'42"E	74.95'
L233	N36°19'00"W	153.53'
L234	N17°58'25"E	149.75'
L235	S00°44'46"W	338.71'

CURVE TABLE					
CURVE	RADIUS	CHORD BEARING	CHORD	DELTA	LENGTH
C200	35.00'	S45°17'33"W	49.26'	089°27'28"	54.65'
C201	55.00'	S44°42'31"E	78.15'	090°32'40"	86.92'
C202	30065.00'	S89°28'20"E	533.99'	001°01'04"	534.00'
C203	544.50'	S79°40'53"E	175.65'	018°33'50"	176.42'
C204	505.00'	N39°46'19"E	366.41'	042°32'31"	374.96'
C205	571.26'	S49°46'08"E	479.08'	049°34'58"	494.36'
C206	260.75'	S52°27'06"E	196.27'	044°13'02"	201.23'
C207	984.93'	S36°16'07"W	781.57'	046°45'08"	803.68'
C208	14808.00'	N44°26'37"W	451.84'	001°44'54"	451.86'
C209	5689.65'	N00°59'41"E	150.42'	001°30'53"	150.42'
C210	320.75'	N52°27'10"W	241.42'	044°12'53"	247.52'
C211	511.26'	N49°46'08"W	428.76'	049°34'58"	442.44'
C212	213.50'	N12°56'36"W	93.42'	025°16'34"	94.19'
C213	300.00'	N13°25'27"W	25.56'	004°52'59"	25.57'
C214	300.00'	N03°29'44"E	150.01'	028°57'23"	151.62'
C215	405.00'	N21°32'19"E	50.37'	007°07'48"	50.40'
C216	375.87'	S56°26'10"W	42.08'	006°25'02"	42.10'

GRAPHIC SCALE

300 0 150 300

(IN FEET)

1 inch = 300 ft.

SHEET INDEX

SHEET 1 OF 6 – DEDICATION
SHEET 2 OF 6 – NOTES, LEGEND & LEGAL DESCRIPTION
SHEET 3 OF 6 – BOUNDARY INFORMATION
SHEETS 4–6 OF 6 LOT & TRACT GEOMETRY

DETAIL B (scale 1"=100 FEET)

ALLEN & COMPANY
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RIDGE

A PORTION OF SECTIONS 17 AND 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA

PLAT BOOK____ PAGE _____

LINE TABLE		
LINE	BEARING	LENGTH
L51	N43°38'18"E	65.00'
L200	N89°58'51"W	128.63'
L201	S88°57'48"E	403.65'
L202	N00°03'18"E	238.05'
L221	N43°34'16"W	104.57'
L222	N00°33'55"E	264.76'
L223	S89°58'55"W	241.14'
L224	N42°01'34"W	446.22'
L225	N89°57'09"E	543.15'
L226	N38°59'13"W	91.06'

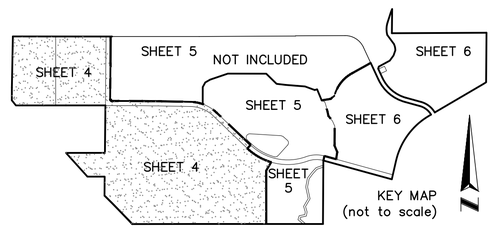
CURVE TABLE					
CURVE	RADIUS	CHORD BEARING	CHORD	DELTA	LENGTH
C50	30032.50'	N89°28'20"W	533.42'	01°01'04"	533.42'
C51	512.00'	N67°39'45"W	371.98'	42°36'06"	380.69'
C52	785.00'	S78°08'38"E	826.91'	63°33'53"	870.89'
C57	30000.00'	N89°28'20"W	532.84'	01°01'04"	532.85'
C58	544.50'	N67°39'45"W	395.60'	42°36'06"	404.86'
C60	544.50'	N58°22'50"W	226.77'	24°02'17"	228.44'
C61	479.50'	N67°39'45"W	348.37'	42°36'06"	356.53'
C62	752.50'	S78°08'38"E	792.68'	63°33'53"	834.83'
C63	817.50'	S78°08'38"E	861.15'	63°33'53"	906.95'
C64	817.50'	S59°58'07"E	384.65'	27°12'51"	388.29'
C71	35.00'	N44°42'27"W	49.73'	90°32'32"	55.31'

CURVE TABLE					
CURVE	RADIUS	CHORD BEARING	CHORD	DELTA	LENGTH
C200	35.00'	S45°17'33"W	49.26'	089°27'28"	54.65'
C201	55.00'	S44°42'31"E	78.15'	090°32'40"	86.92'
C202	30065.00'	S89°28'20"E	533.99'	001°01'04"	534.00'
C203	544.50'	S79°40'53"E	175.65'	018°33'50"	176.42'
C208	14808.00'	N44°26'37"W	451.84'	001°44'54"	451.86'
C209	5689.65'	N00°59'41"E	150.42'	001°30'53"	150.42'

GRAPHIC SCALE

150 0 75 150

(IN FEET)
1 inch = 150 ft.



NW CORNER SE 1/4 SECTION 18–21–28 FOUND 1/2" IRON ROD, NO IDENTIFICATION, CCR # 82634

NOT PLATTED

33.00'

N LINE OF THE SE 1/4 SECTION 18–21–28

NOT PLATTED DB 338, PG 18 OR 1076, PG 548

BOY SCOUT ROAD
66.00' R/W WIDTH

S89°58'43"E 1411.05' NR

705.53' 570.52'

33.00' 10.00' U.E.

S RIGHT–OF–WAY LINE OF BOY SCOUT ROAD PER OR 1076, PG 548

80.00' WIDE RIGHT OF WAY PER SRB 1, PG 40 & DB 770, PG 209

C209

ELY RIGHT–OF–WAY LINE OF S BINION ROAD PER SRB 1, PG 40

W LINE OF THE SE 1/4 OF SECTION 18–21–28

LOT 1

PARCEL 1
LOT 2

742.29'

N 00°14'15" E 963.06'

N00°14'15"E 2657.82'

COUNTY ROAD 437 S BINION ROAD

NOT PLATTED

ELY RIGHT–OF–WAY LINE OF S BINION ROAD PER SRB 1, PG 40

40.00' 40.00'

L226

542.93' 707.38'

S89°58'47"W 1250.31'

S 01°08'24" W

NOT PLATTED

ELY RIGHT–OF–WAY LINE OF S BINION ROAD PER SRB 1, PG 40 & DB 770, PG 209

NOT PLATTED

NOT PLATTED

C71 C200 153 152 154 155 156 157 158 159 160 176 175 174 173 172 171 170 169 168 167 166 165 164 163 162 161 268 267 266 265

67.83' 67.17'

10.00' U.E.

TRACT SW–2 STORMWATER

RIDER RAIN LANE

65.00' R/W WIDTH

933.45'

927.25' 930.62' 810.75'

S 00°33'49" W 810.75'

N00°33'49"E

32.50' RED SUN WAY

WESTERLY LINE OF BRONSON'S RIDGE

TRACT RW–1

BRONSON LAKE DRIVE

32.50'

PC C201 PT L200 PC

BRONSON'S RIDGE PB____ PGS.____ NOT A PART OF THIS PLAT.

WESTERLY LINE OF BRONSON'S RIDGE

WATER STAR ALLEY

C202 TRACT OS–5 PT PC L201 PC C203 NT

L202 NR

TRACT RW–1 BRONSON LAKE DRIVE 65.00' R/W WIDTH

S89°58'51"E 216.96' PC C50 PT S88°57'48"E 403.65'

249.77' 32.50' C57 10.00' U.E. 403.65'

C58 C51 C60 C61

RECREATION STORMWATER/POND TRACT R–1

10.00' U.E.

MATCHLINE

S46°21'42"E 656.86'

32.50' 10.00' U.E. 656.86' 32.50'

656.86'

65.00' R/W WIDTH

TRACT SW–2 STORMWATER

TIE LINE S 43°38'18" W 20.00'

C63 PC

TRACT RW–1

C64

SEE SHEET 5

LOT 6
PARCEL 1

LOT 6

663.72'

660.35'

N00°33'55"E

DETAIL A
(not to scale)

LOT 2 927.25' 930.62' (OA) 3.37' TRACT RW–1 LOT 6 660.35'

L225

STATE ROAD 429
D.B. 770, PG. 209
OR 9046, PG 439
& OR 9356, PG 1729
NOT PLATTED

L224

L223

L222

NT

C208

ELY LIMITED ACCESS RIGHT–OF–WAY LINE OF STATE ROAD 429, WESTERN BELTWAY

NT L221

1622.39' NR N00°00'38"W

E LINE OF SE 1/4 SECTION 18–21–28

W LINE OF SW 1/4 SECTION 17–21–28

135.86' NR S30°35'08"W

746.69'

MATCHLINE

S00°00'19"W

TRACT SW–1 STORMWTER

SEE SHEET 5

LOT 6

FOUND 6"X6" CONCRETE MONUMENT, NO ID CCR# 82044

S LINE OF SE 1/4 SECTION 18–21–28

SE CORNER OF SE 1/4 SECTION 18–21–28

SW CORNER OF SECTION 17–21–28

S LINE OF SW 1/4 SECTION 17–21–28

935.58'

S89°54'43"W 936.11' N89°59'43"W 935.58'(TO MATCHLINE) 1728.15'(OVERALL)

STATE ROAD 414
PROJECT #429–900

NLY LIMITED ACCESS RIGHT–OF–WAY LINE OF STATE ROAD 414, APOPKA EXPRESSWAY

NOT PLATTED

ALLEN & COMPANY
Founded in 1988
SURVEYING • MAPPING
GEOSPATIAL SERVICES
www.allen-company.com
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16 EAST PLANT STREET
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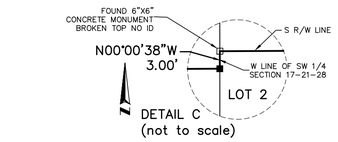
SHEET INDEX

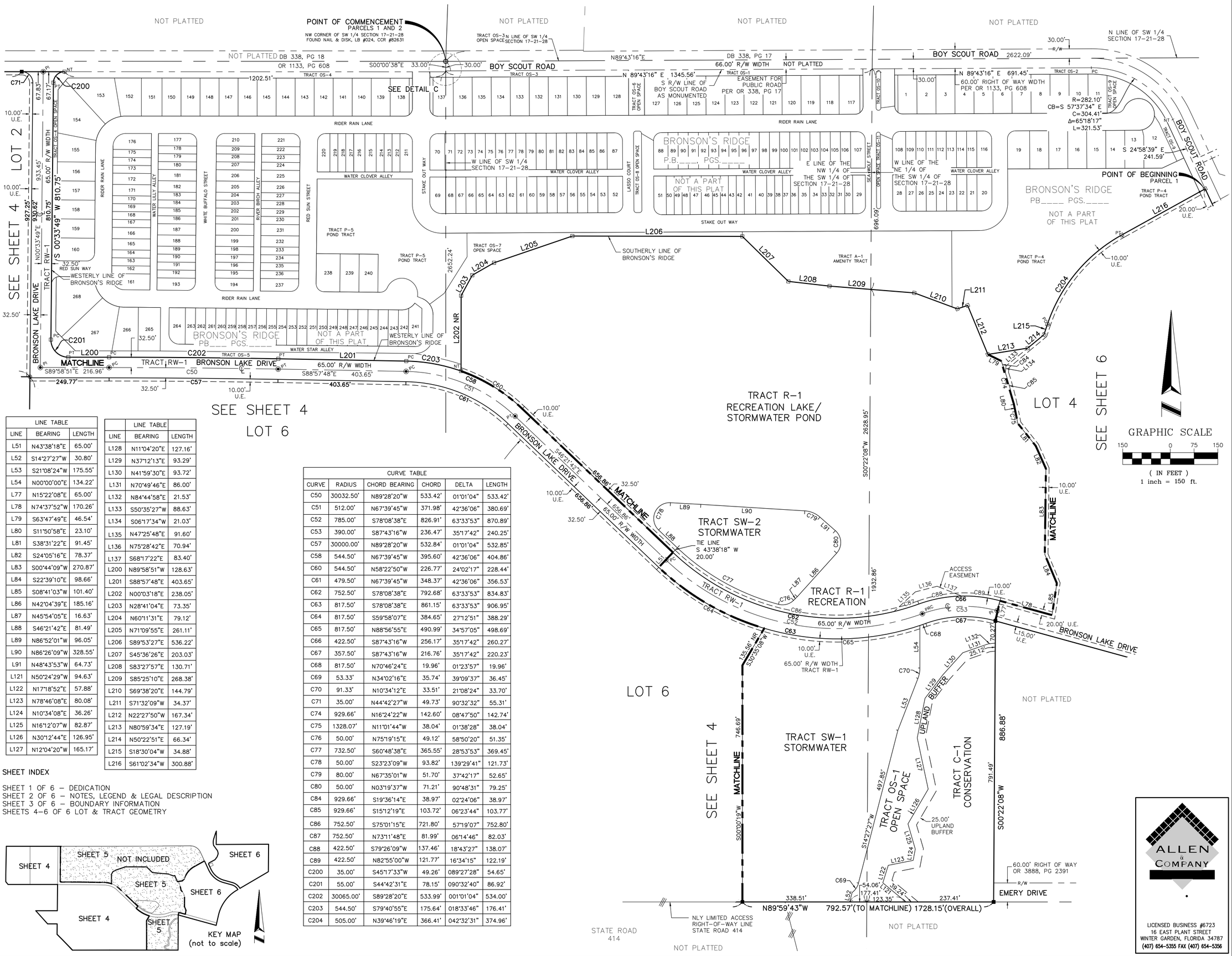
SHEET 1 OF 6 – DEDICATION
SHEET 2 OF 6 – NOTES, LEGEND & LEGAL DESCRIPTION
SHEET 3 OF 6 – BOUNDARY INFORMATION
SHEETS 4–6 OF 6 LOT & TRACT GEOMETRY

PLAT BOOK____ PAGE _____

RIDGE

A PORTION OF SECTIONS 17 AND 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA





LINE TABLE		
LINE	BEARING	LENGTH
L51	N43°38'18"E	65.00'
L52	S14°27'27"W	30.80'
L53	S21°08'24"W	175.55'
L54	N00°00'00"E	134.22'
L77	N15°22'08"E	65.00'
L78	N74°37'52"W	170.26'
L79	S63°47'49"E	46.54'
L80	S11°50'58"E	23.10'
L81	S38°31'22"E	91.45'
L82	S24°05'16"E	78.37'
L83	S00°44'09"W	270.87'
L84	S22°39'10"E	98.66'
L85	S08°41'03"W	101.40'
L86	N42°04'39"E	185.16'
L87	N45°54'05"E	16.63'
L88	S46°21'42"E	81.49'
L89	N86°52'01"W	96.05'
L90	N86°26'09"W	328.55'
L91	N48°43'53"W	64.73'
L121	N50°24'29"W	94.63'
L122	N17°18'52"E	57.88'
L123	N78°46'08"E	80.08'
L124	N10°34'08"E	36.26'
L125	N16°12'07"W	82.87'
L126	N30°12'44"E	126.95'
L127	N12°04'20"W	165.17'

LINE TABLE		
LINE	BEARING	LENGTH
L128	N11°04'20"E	127.16'
L129	N37°12'13"E	93.29'
L130	N41°59'30"E	93.72'
L131	N70°49'46"E	86.00'
L132	N84°44'58"E	21.53'
L133	S50°35'27"W	88.63'
L134	S06°17'34"W	21.03'
L135	N47°25'48"E	91.60'
L136	N75°28'42"E	70.94'
L137	S68°17'22"E	83.40'
L200	N89°58'51"W	128.63'
L201	S88°57'48"E	403.65'
L202	N00°03'18"E	238.05'
L203	N28°41'04"E	73.35'
L204	N60°11'31"E	79.12'
L205	N71°09'55"E	261.11'
L206	S89°53'27"E	536.22'
L207	S45°36'26"E	203.03'
L208	S83°27'57"E	130.71'
L209	S85°25'10"E	268.38'
L210	S69°38'20"E	144.79'
L211	S71°32'09"W	34.37'
L212	N22°27'50"W	167.34'
L213	N80°59'34"E	127.19'
L214	N50°22'51"E	66.34'
L215	S18°30'04"W	34.88'
L216	S61°02'34"W	300.88'

CURVE TABLE					
CURVE	RADIUS	CHORD BEARING	CHORD	DELTA	LENGTH
C50	30032.50'	N89°28'20"W	533.42'	01°01'04"	533.42'
C51	512.00'	N67°39'45"W	371.98'	42°36'06"	380.69'
C52	785.00'	S78°08'38"E	826.91'	63°33'53"	870.89'
C53	390.00'	S87°43'16"W	236.47'	35°17'42"	240.25'
C57	30000.00'	N89°28'20"W	532.84'	01°01'04"	532.85'
C58	544.50'	N67°39'45"W	395.60'	42°36'06"	404.86'
C60	544.50'	N58°22'50"W	226.77'	24°02'17"	228.44'
C61	479.50'	N67°39'45"W	348.37'	42°36'06"	356.53'
C62	752.50'	S78°08'38"E	792.68'	63°33'53"	834.83'
C63	817.50'	S78°08'38"E	861.15'	63°33'53"	906.95'
C64	817.50'	S59°58'07"E	384.65'	27°12'51"	388.29'
C65	817.50'	N88°56'55"E	490.99'	34°57'05"	498.69'
C66	422.50'	S87°43'16"W	256.17'	35°17'42"	260.27'
C67	357.50'	S87°43'16"W	216.76'	35°17'42"	220.23'
C68	817.50'	N70°46'24"E	19.96'	01°23'57"	19.96'
C69	53.33'	N34°02'16"E	35.74'	39°09'37"	36.45'
C70	91.33'	N10°34'12"E	33.51'	21°08'24"	33.70'
C71	35.00'	N44°42'27"W	49.73'	90°32'32"	55.31'
C74	929.66'	N16°24'22"W	142.60'	08°47'50"	142.74'
C75	1328.07'	N11°01'44"W	38.04'	01°38'28"	38.04'
C76	50.00'	N75°19'15"E	49.12'	58°50'20"	51.35'
C77	732.50'	S60°48'38"E	365.55'	28°53'53"	369.45'
C78	50.00'	S23°23'09"W	93.82'	139°29'41"	121.73'
C79	80.00'	N67°35'01"W	51.70'	37°42'17"	52.65'
C80	50.00'	N03°19'37"W	71.21'	90°48'31"	79.25'
C84	929.66'	S19°36'14"E	38.97'	02°24'06"	38.97'
C85	929.66'	S15°12'19"E	103.72'	06°23'44"	103.77'
C86	752.50'	S75°01'15"E	721.80'	57°19'07"	752.80'
C87	752.50'	N73°11'48"E	81.99'	06°14'46"	82.03'
C88	422.50'	S79°26'09"W	137.46'	18°43'27"	138.07'
C89	422.50'	N82°55'00"W	121.77'	16°34'15"	122.19'
C200	35.00'	S45°17'33"W	49.26'	089°27'28"	54.65'
C201	55.00'	S44°42'31"E	78.15'	090°32'40"	86.92'
C202	30065.00'	S89°28'20"E	533.99'	001°01'04"	534.00'
C203	544.50'	S79°40'55"E	175.64'	018°33'46"	176.41'
C204	505.00'	N39°46'19"E	366.41'	042°32'31"	374.96'

SHEET INDEX

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RIDGE

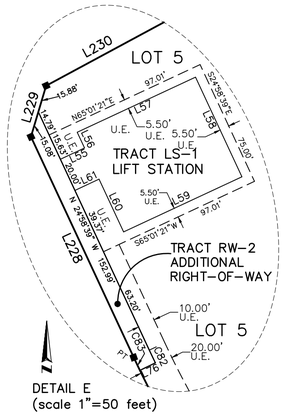
A PORTION OF SECTIONS 17 AND 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA

PLAT BOOK____ PAGE _____

GRAPHIC SCALE

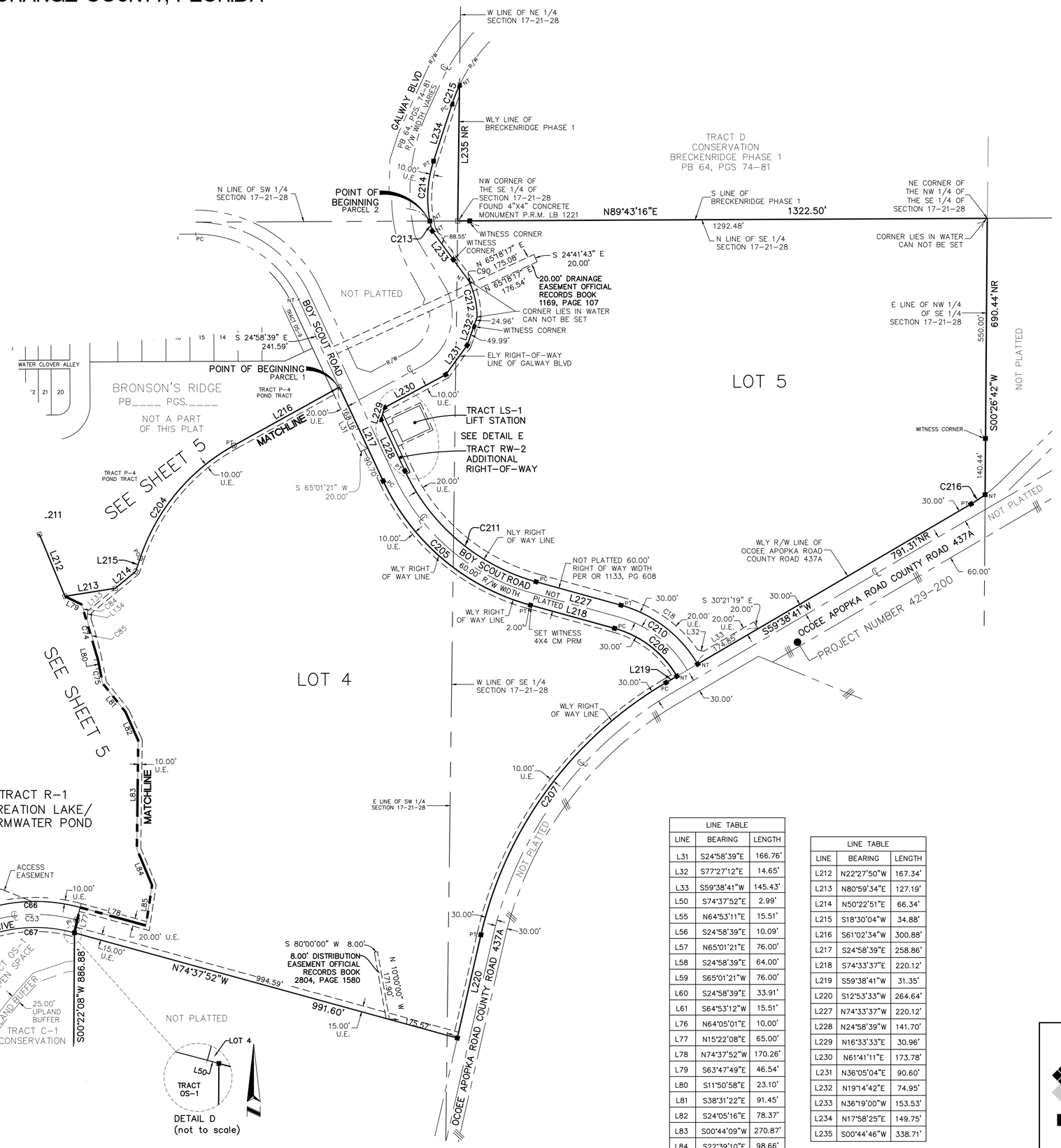
150 0 75 150

(IN FEET)
1 inch = 150 ft.



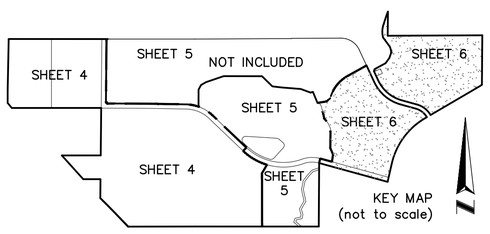
CURVE TABLE					
CURVE	RADIUS	CHORD BEARING	CHORD	DELTA	LENGTH
C18	340.75'	N54°58'35"W	228.43'	39°10'04"	232.94'
C53	390.00'	S87°43'16"W	236.47'	35°17'42"	240.25'
C66	422.50'	S87°43'16"W	256.17'	35°17'42"	260.27'
C67	357.50'	S87°43'16"W	216.76'	35°17'42"	220.23'
C74	929.66'	N16°24'22"W	142.60'	08°47'50"	142.74'
C75	1328.07'	N11°01'44"W	38.04'	01°38'28"	38.04'
C82	501.26'	S25°26'49"E	8.22'	00°56'21"	8.22'
C83	511.26'	S25°26'49"E	8.38'	00°56'21"	8.38'
C84	929.66'	S19°36'14"E	38.97'	02°24'06"	38.97'
C85	929.66'	S15°12'19"E	103.72'	06°23'44"	103.77'
C90	213.50'	S24°23'48"E	8.83'	02°22'10"	8.83'

CURVE TABLE					
CURVE	RADIUS	CHORD BEARING	CHORD	DELTA	LENGTH
C204	505.00'	N39°46'19"E	366.41'	042°32'31"	374.96'
C205	571.26'	S49°46'08"E	479.08'	049°34'58"	494.36'
C206	260.75'	N52°27'06"W	196.27'	044°13'02"	201.23'
C207	984.93'	S36°16'07"W	781.57'	046°45'08"	803.68'
C210	320.75'	N52°27'10"W	241.42'	044°12'53"	247.52'
C211	511.26'	S49°46'08"E	428.76'	049°34'58"	442.44'
C212	213.50'	N12°56'36"W	93.42'	025°16'34"	94.19'
C213	300.00'	S13°25'27"E	25.56'	004°52'59"	25.57'
C214	300.00'	S03°29'44"W	150.01'	028°57'23"	151.62'
C215	405.00'	S21°32'19"W	50.37'	007°07'48"	50.40'
C216	375.87'	N56°26'10"E	42.08'	006°25'02"	42.10'



LINE TABLE		
LINE	BEARING	LENGTH
L31	S24°58'39"E	166.76'
L32	S77°27'12"E	14.65'
L33	S59°38'41"W	145.43'
L50	S74°37'52"E	2.99'
L55	N64°53'11"E	15.51'
L56	S24°58'39"E	10.09'
L57	N65°01'21"E	76.00'
L58	S24°58'39"E	64.00'
L59	S65°01'21"W	76.00'
L60	S24°58'39"E	33.91'
L61	S64°53'12"W	15.51'
L76	N64°05'01"E	10.00'
L77	N15°22'08"E	65.00'
L78	N74°37'52"W	170.26'
L79	S63°47'49"E	46.54'
L80	S11°50'58"E	23.10'
L81	S38°31'22"E	91.45'
L82	S24°05'16"E	78.37'
L83	S00°44'09"W	270.87'
L84	S22°39'10"E	98.66'
L85	S08°41'03"W	101.40'
L133	S50°35'27"W	88.63'
L134	S06°17'34"W	21.03'

LINE TABLE		
LINE	BEARING	LENGTH
L212	N22°27'50"W	167.34'
L213	N80°59'34"E	127.19'
L214	N50°22'51"E	66.34'
L215	S18°30'04"W	34.88'
L216	S61°02'34"W	300.88'
L217	S24°58'39"E	258.86'
L218	S74°33'37"E	220.12'
L219	S59°38'41"W	31.35'
L220	S12°53'33"W	264.64'
L227	N74°33'37"W	220.12'
L228	N24°58'39"W	141.70'
L229	N16°33'33"E	30.96'
L230	N61°41'11"E	173.78'
L231	N36°05'04"E	90.60'
L232	N19°14'42"E	74.95'
L233	N36°19'00"W	153.53'
L234	N17°58'25"E	149.75'
L235	S00°44'46"W	338.71'



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