



APOPKA DEVELOPMENT REVIEW COMMITTEE AGENDA

July 2, 2025 9:00 AM

Apopka City Hall Council Chambers

SPECIAL EVENTS

PLAT

1. PL-25-4 Wyld Oaks Lot 6 - Replat (PL), 1st Submittal

SITE PLAN:

CONSTRUCTION SITE PLAN

1. CSP-25-12 Apopka Pickle - Construction Site Plan (CSP), 2nd Submittal
2. CSP-25-10 357 W. 4th Street - Construction Site Plan (CSP), 3rd Submittal

SUBDIVISION:

CONSTRUCTION SITE PLAN

1. CSP-25-15 Ondich South - Construction Site Plan (CSP), 2nd Submittal
Owner(s): PM S-1 REO LLC
Applicant(s): 1828 Engineering - Sofia Sierra-Gil
Location: Southwest corner of Ondich Road and Effie Drive
Proposed Use: Residential single-family homes
Project Manager: Jean Sanchez
Presented by: Jean Sanchez, Senior Planner

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.

GOLDEN GEM RESIDENTIAL

A PORTION OF SECTION 13, TOWNSHIP 20 SOUTH, RANGE 27 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA,
TOGETHER WITH A RE-PLAT OF LOT 6 OF WYLD OAKS, ACCORDING TO THE PLAT THEREOF
AS RECORDED IN PLAT BOOK 116, PAGE 116, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

LEGAL DESCRIPTION

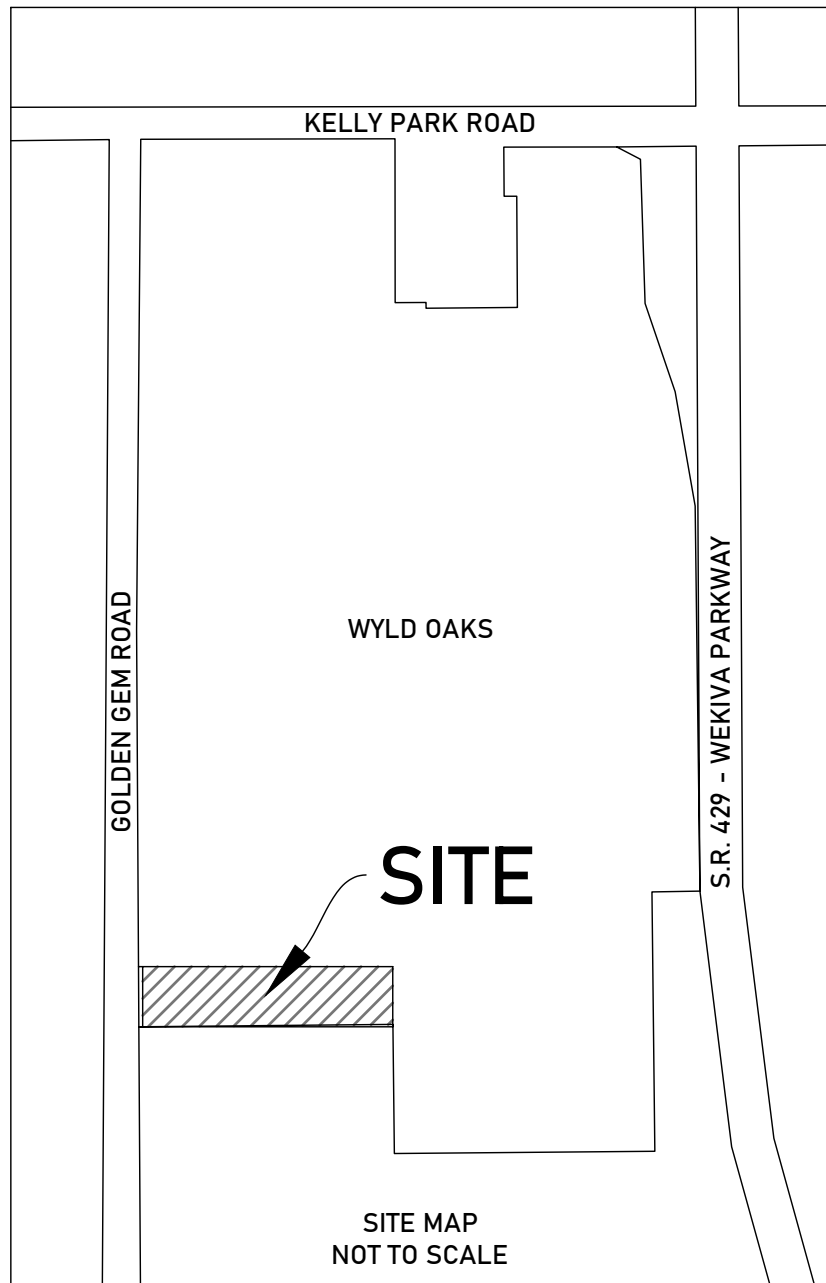
A Replat of Wyld Oaks, according to the plat thereof as recorded in Plat Book 116, Page 116, Public Records of Orange County, Florida and a portion of Section 13, Township 20 South, Range 27 East, Orange County, Florida, being more particularly described as follows.

Commencing at South ¼ corner of Section 13, Township 20 South, Range 27 East, Orange County, Florida; thence run S89°31'40"W, along the Southerly line of the Southwest ¼ of said Section 13 for a distance of 1356.86 feet; thence departing said Southerly line, run N00°29'47"W for a distance of 673.93 feet to a point on the Northerly line of the North ½ of the Southwest ¼ of the Southwest ¼ of said Section 13 also being The Point of Beginning; thence run S89°23'24"W along said Northerly line for a distance of 1305.15 feet to a point on the Easterly line of Tract E, a 20.00 feet Right-Of-Way dedication as recorded in Plat Book 116, Page 116 of the Public Records of Orange County, Florida; thence departing said Northerly line, run N00°21'03"W along said Easterly line for a distance of 302.01 feet to a point on the Southerly line of Tract C, Stormwater, as recorded in Plat Book 116, Page 116, of the Public Records of Orange County, Florida; thence departing said Easterly line, run N89°30'21"W along said Southerly line for a distance of 1304.38 feet to a point on the Westerly line of Lot 9; thence departing said Southerly line, run S00°29'47"E along said Westerly line for a distance of 299.37 feet to The Point of Beginning.

Contains 392,332 square feet or 9.007 acres, more or less.

GENERAL NOTES

- Bearings shown hereon are based on the Southerly line of the Southwest ¼ of Section 13, Township 20 South, Range 27 East, as being S89°31'40"W as shown on the plat of Kelly Park Crossings, Plat Book 111, Pages 122 & 123, Public Records of Orange County, Florida.
- All platted utility easements shall provide that such easements shall also be easements for the construction, installation, maintenance, and operation of cable television 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 operations shall comply with the national electrical safety codes as adopted by the Florida Public Services Commission.
- (need reference to the Declarations of Covenants, if any)
- (need reference to any tract, if any)



ABBREVIATIONS

PSM Professional Surveyor & Mapper
LS Licensed Surveyor



GET TO THE POINT SURVEY, LLC.
(407) 230-7346

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; shown thereon; and this plat complies with all the survey requirements of Chapter 177, Florida Statutes; and that said land is located in Orange County, Florida.

PHILLIP ROBINSON, PSM.
LICENSE NUMBER: LS7190

03/30/2025

SIGNING DATE

PLAT
BOOK

PAGE

GOLDEN GEM RESIDENTIAL DEDICATION

KNOW ALL MEN BY THESE PRESENTS, That the COMPANY NAME, being the owner in fee simple of the lands described in the foregoing caption to this plat, hereby dedicates said lands and plat for the uses and purposes therein expressed and dedicates DEDICATED LANDS shown hereon to the perpetual use of DEDICATED PUBLIC.

IN WITNESS WHEREOF, the undersigned UNDERSIGNED has caused these presents to be executed and acknowledged by its undersigned Officer thereunto duly authorized on this ____ day of _____ 2025.

By: COMPANY NAME
By: COMPANY NAME, its Manager: _____

Printed Name: _____
Title: _____

Signed and sealed in the presence of: _____
Printed Name of Witness: _____

Printed Name of Witness: _____

STATE OF FLORIDA
COUNTY OF ORANGE

The foregoing instrument was acknowledged before me, by means of physical presence, this ____ day of _____ 2025 by COMPANY REPRESENTATIVE NAME of COMPANY NAME, on behalf of the company, such person is personally known by me.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the above date.

WITNESS my hand and official seal this ____ day of _____ 2025.

Notary Public

Commission Expires: _____

Commission Number: _____

Printed Name: _____

CERTIFICATE OF APPROVAL ENGINEER

Examined and Approve

County Engineer _____ Date _____

CERTIFICATE OF APPROVAL BY ZONING DIRECTOR

Examined and Approve

Zoning Director _____ Date _____

CERTIFICATE OF APPROVAL BY BOARD OF COUNTY COMMISSIONERS

THIS IS TO CERTIFY, that on _____ the foregoing plat was approved by the Board of County Commissioners of Orange County, Florida.

Orange County

Attest: _____
Clerk of the Board

By: _____ D.C.

CERTIFICATE COUNTY COMPTROLLER

I HEREBY CERTIFY, that the foregoing plat was recorded in the Orange County Official Records on _____ as Document No. _____

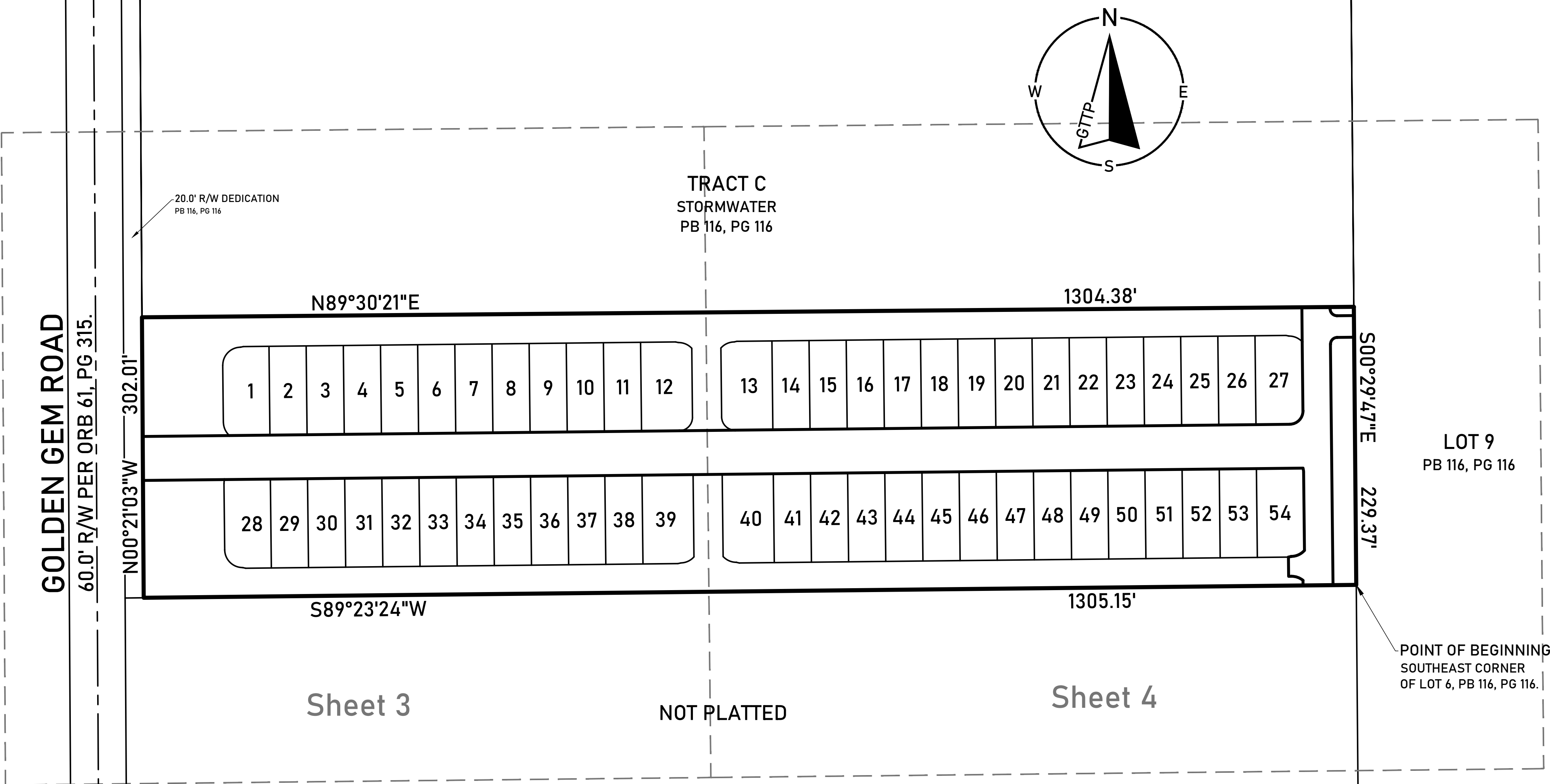
County Comptroller in and for Orange County, Florida.

By: _____

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PLAT BOOK PAGE



Sheet 2 of 4

NOTES

□ Indicates Permanent Reference Monument.

ABBREVIATIONS

ORB Official Record Book
PB Plat Book
PG[S] Page[s]
TWN Township
SEC Section
RNG Range
R/W Right-of-Way



GET TO THE POINT SURVEY, LLC.
(407) 230-7346

N89°31'40"E 1356.86'

POINT OF COMMENCEMENT
SOUTH 1/4 CORNER OF
SEC 13, TWS 20 S, RNG 27 E.

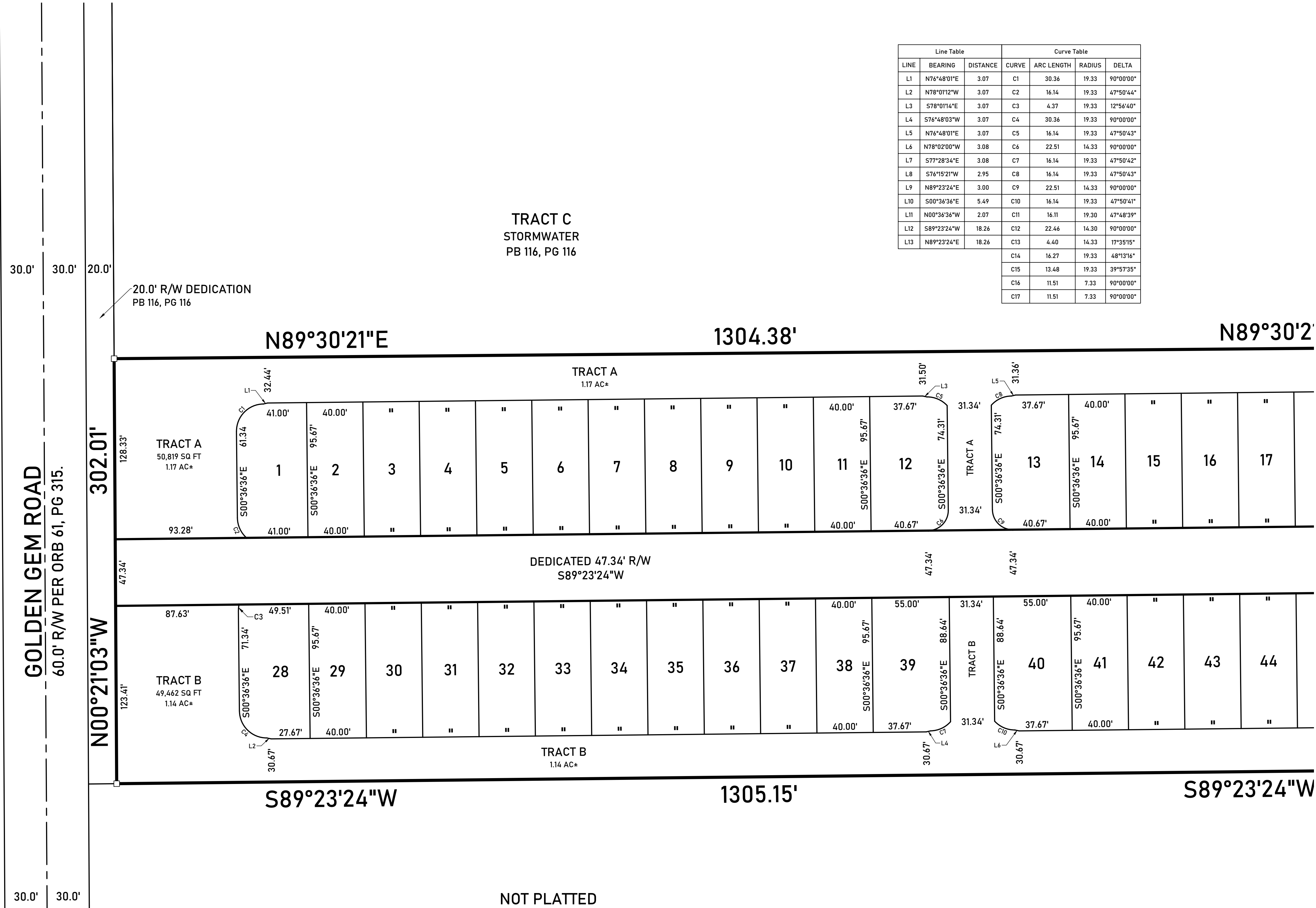
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PLAT
BOOK

PAGE

Line Table			Curve Table			
LINE	BEARING	DISTANCE	CURVE	ARC LENGTH	RADIUS	DELTA
L1	N76°48'01"E	3.07	C1	30.36	19.33	90°00'00"
L2	N78°01'12"W	3.07	C2	16.14	19.33	47°50'44"
L3	S78°01'14"E	3.07	C3	4.37	19.33	12°56'40"
L4	S76°48'03"W	3.07	C4	30.36	19.33	90°00'00"
L5	N76°48'01"E	3.07	C5	16.14	19.33	47°50'43"
L6	N78°02'00"W	3.08	C6	22.51	14.33	90°00'00"
L7	S77°28'34"E	3.08	C7	16.14	19.33	47°50'42"
L8	S76°15'21"W	2.95	C8	16.14	19.33	47°50'43"
L9	N89°23'24"E	3.00	C9	22.51	14.33	90°00'00"
L10	S00°36'36"E	5.49	C10	16.14	19.33	47°50'41"
L11	N00°36'36"W	2.07	C11	16.11	19.30	47°48'39"
L12	S89°23'24"W	18.26	C12	22.46	14.30	90°00'00"
L13	N89°23'24"E	18.26	C13	4.40	14.33	17°35'15"
			C14	16.27	19.33	48°13'16"
			C15	13.48	19.33	39°57'35"
			C16	11.51	7.33	90°00'00"
			C17	11.51	7.33	90°00'00"



NOTES

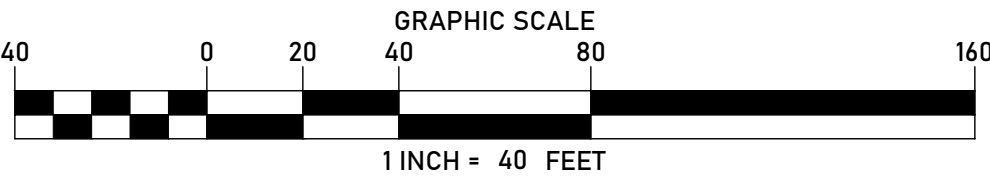
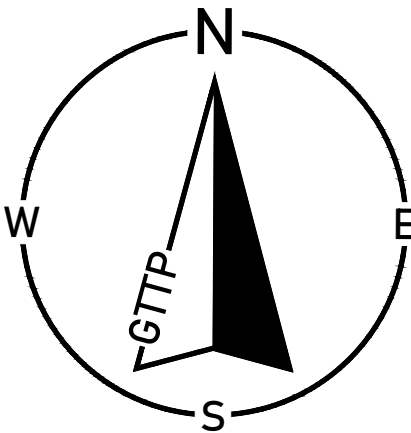
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ABBREVIATIONS

ORB Official Record Book
PB Plat Book
PG[S] Page[s]
TWN Township
SEC Section
RNG Range
R/W Right-of-Way



GET TO THE POINT SURVEY, LLC.
(407) 230-7346



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BOOK

PAGE

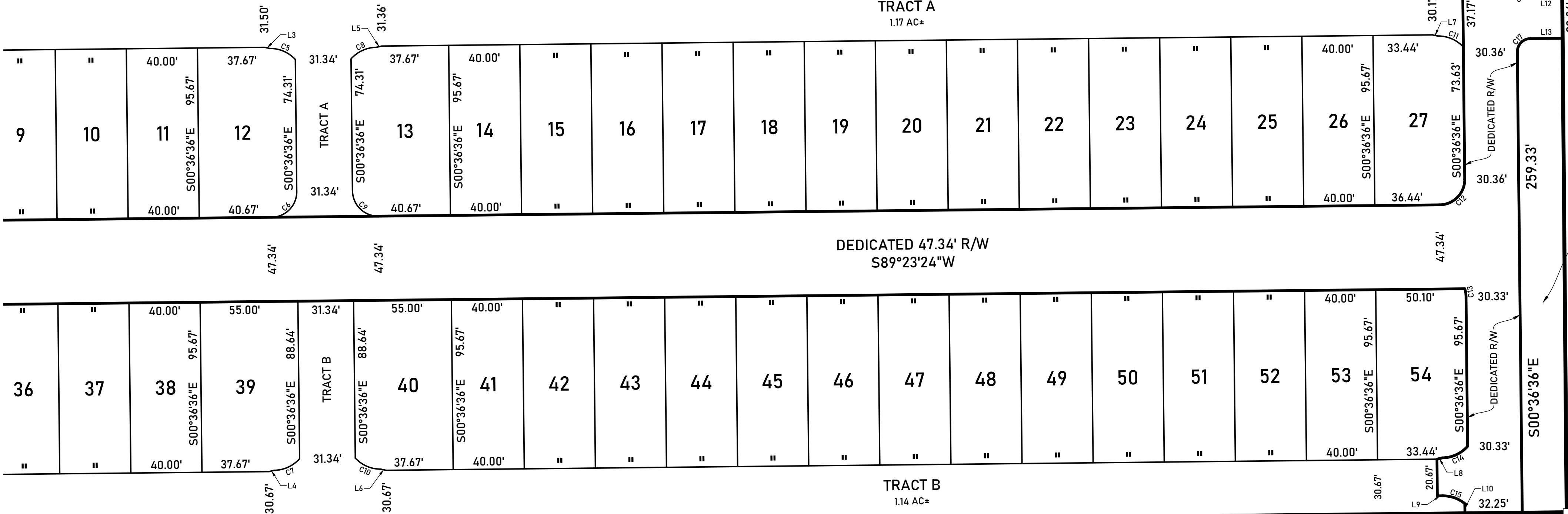
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			C14	16.27	19.33	48°13'16"
			C15	13.48	19.33	39°57'35"
			C16	11.51	7.33	90°00'00"
			C17	11.51	7.33	90°00'00"

TRACT C
STORMWATER
PB 116, PG 116

1304.38'

N89°30'21"E

1304.38'



TRACT C
228 SQ. FT
0.01 AC±

TRACT C
228 SQ. FT
0.01 AC±

LOT 9
PB 116, PG 116

NOT PLATTED

ABBREVIATIONS

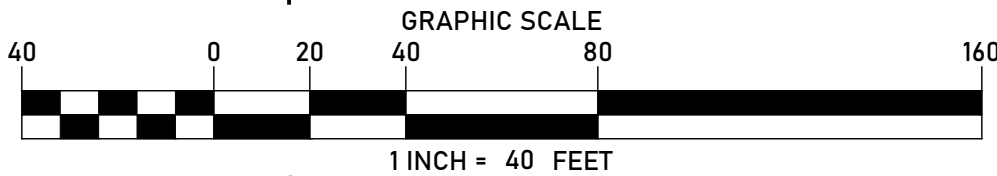
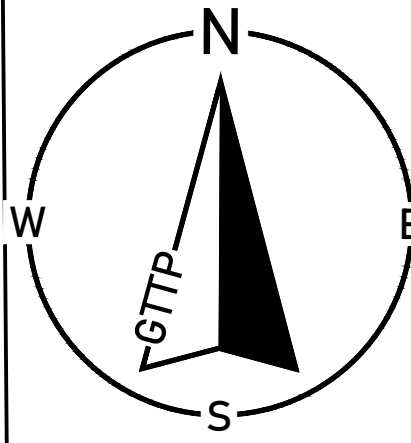
ORB Official Record Book
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PG[S] Page[s]
TWN Township
SEC Section
RNG Range
R/W Right-of-Way



GET TO THE POINT SURVEY, LLC.
(407) 230-7346

NOTES

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AT
106 W 4TH ST,
APOPKA, FL 32703
PARCEL #: 09-21-28-0196-40-061

OWNER:	ALPHA DISTRIBUTIONS, LLC
DEVELOPER:	RENE ESCOBAR 1940 RUCKMAN PL APOA, FL 32703
CIVIL ENGINEER:	COMMON OAK ENGINEERING, LLC 4020 EDGEWATER DRIVE ORLANDO, FL 32804 PHONE: (407) 951-5915
SURVEYOR:	L&S DIVERSIFIED 4770 NEW BROAD ST., SUITE 100 ORLANDO, FL 32814 PHONE: (407) 681-3836
ARCHITECT:	TBD

WATER & SEWER:	CITY OF APOPKA 748 E CLEVELAND ST APOPKA, FL 32703 407-703-1731	CITY OF APOPKA 748 E CLEVELAND ST APOPKA, FL 32703 407-703-1731
ELECTRIC:	DUKE ENERGY 1-800-777-9898	
STORM:		
COMMUNICATIONS:		TBD

[illegible]

C1.0	COVER SHEET	
C1.1	GENERAL NOTES	
C2.1	GENERAL NOTES	
C2.2	GENERAL NOTES	
C3.0	SITE PLAN	
C4.0	GRADING PLAN	
C5.0	UTILITY PLAN	
C6.0	SECURITY PLAN	
C7.0	LANDSCAPE PLAN	
C8.0	PHOTOMETRIC PLAN	
C9.0	EROSION CONTROL PLAN	
C9.1	EROSION CONTROL DETAILS	
C9.2	DETAILS (SITE)	
D1.1	DETAILS (SITE)	
D2.0	DETAILS (UTILITY)	

NO. OF PARKING SPACES	NO.
DETAIL NO. / SHEET	CXX
HEAVY DUTY ASPHALT PAVEMENT	
PROPOSED CONCRETE SURFACE	
WATER LINE	W —
ELECTRIC LINE	E —
WASTEWATER LINE	SS —
BURIED FORCE MAIN	FM —
TELEPHONE LINE	TELE —
FIRE HYDRANT	
VALVE	V
WATER METER	M
BACKFLOW PREVENTER WITH CONCRETE PAD	
TOP OF ASPHALT CONCRETE SPOT ELEVATION	75.40
TOP OF CURBSIDE WALK ON TOP / BOTTOM OF CURB (ON BOTTOM)	75.40 75.30
FLOW ARROW	
REVISION NUMBER	1
FIRE DEPARTMENT CONNECTION	

LEGAL DESCRIPTION
THAT PART OF LOT 6, IN BLOCK D, OF APOPKA, LYING NORTH OF THE SEABOARD AIRLINE RAILWAY, AS
PER PLAT THEREOF RECORDED IN PLAT BOOK A, PAGES 87 AND 100, PUBLIC RECORDS OF ORANGE
COUNTY, FLORIDA.

SCALE:	NTS
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COMMON OAK ENGINEERING
4720 EDGEWATER DRIVE
ORL, ANDO, FL 32804
(407) 951-5915
CERTIFICATE OF
AUTHORIZATION: 32644

APOPKA PICKLE
BALL COURTS
AT
106 W 4TH ST
APOPKA, FL



PROJECT A 224.110

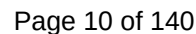
DATE	3/17/2025	C1.0
CALE	N.T.S.	

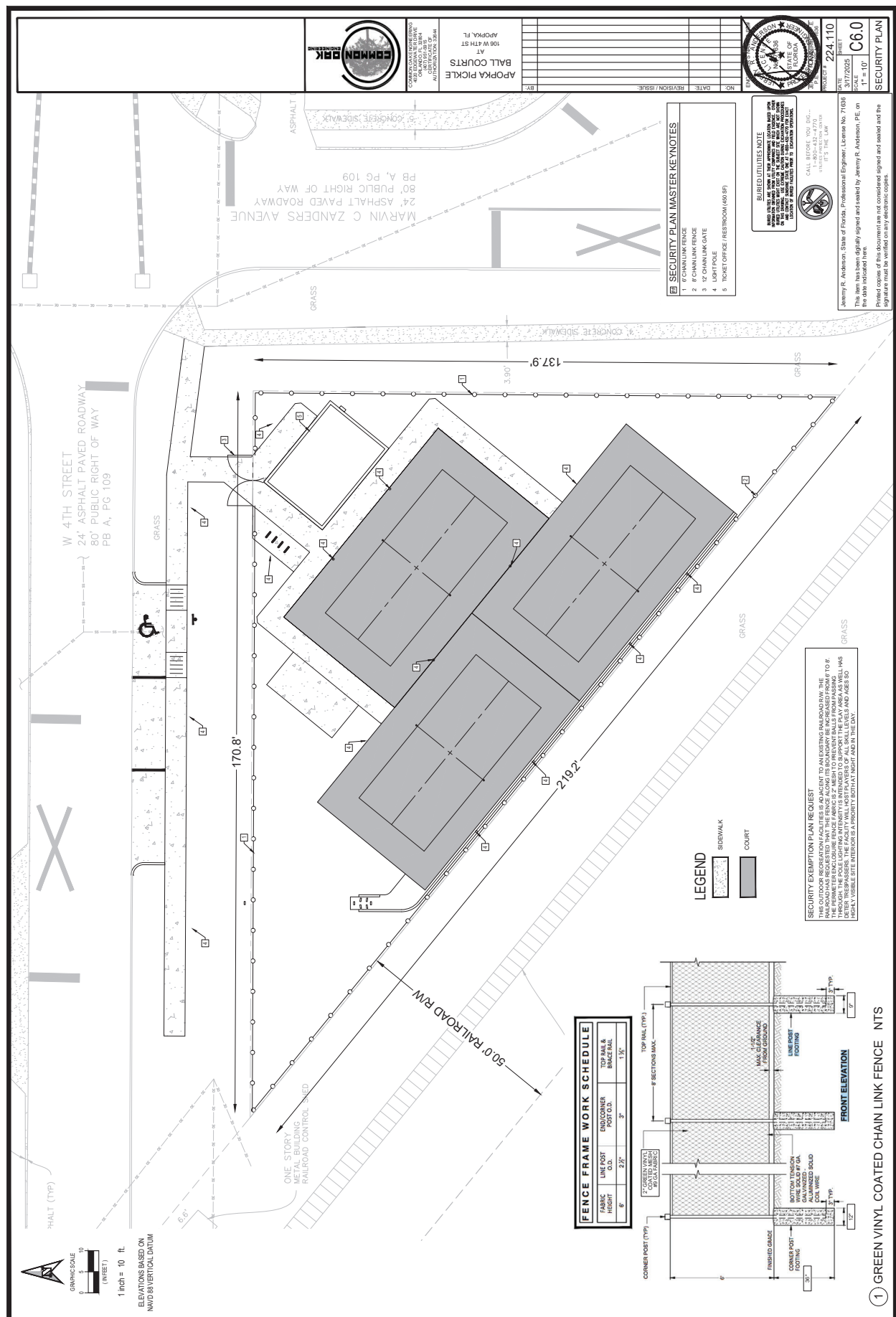
COVER SHEET

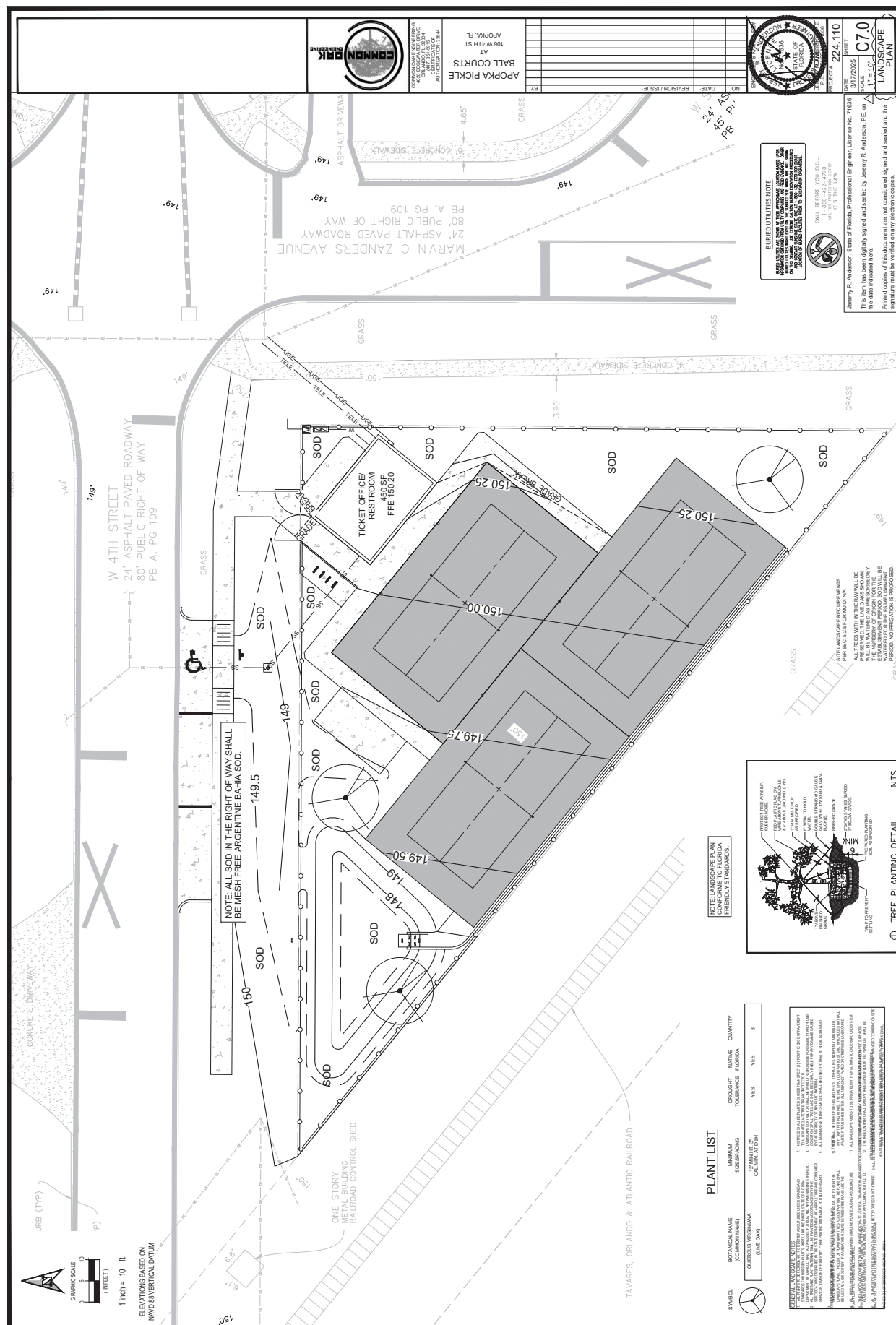
Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

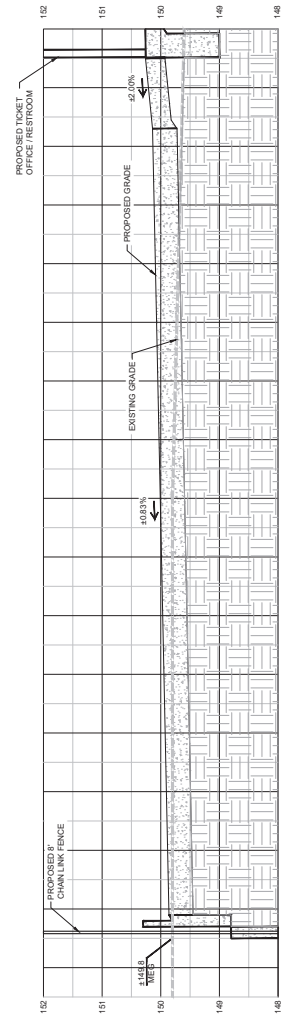
Page 7 of 140





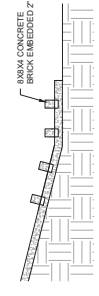


Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71603
This item has been digitally signed and sealed by Jeremy R. Anderson, P.E. on
the date indicated here.
Printed copies of this document are not considered signed and sealed and the
signature must be verified on any electronic copies.



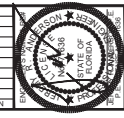
SECTION A-A
 SCALE: 1" IS 1' (VERTICAL) 1" IS 5' (HORIZONTAL)
 NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM

LEGEND	
	EXISTING EARTH
	CONCRETE



1 FLUME W/ BLOCKS NTS

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71608
 This item has been digitally signed and is sealed by Jeremy R. Anderson, P.E., on
 the date indicated below.
 I, the undersigned, certify that I am the author of the design and the
 design is my original work and that I am not providing any design or
 engineering services to anyone other than the client.



DATE: 3/17/2025
 PROJECT: 224.110
 SHEET: 1
 SCALE: D1.1
 NTS
 DETAILS

NO.	DATE	REVISION / ISSUE
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APPOKA PICKLE
 BALL COURTS
 106 W 4TH ST
 APT
 APOKA, FL

COMMON PARK
 ENGINEERING
 106 W 4TH ST
 APT
 APOKA, FL



DOUBLE CHECK OR REDUCED PRESSURE ZONE DETECTOR ASSEMBLY 2 INCH AND BELOW ASSEMBLY CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 500 A	WATER SERVICE CONNECTION DETAIL CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2016 FIG. 405	SANITARY SEWER SERVICE TRAFFIC RATED CLEAN-OUT DETAIL CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 205	TYPE 'B' BEDDING AND OPEN-CUT DETAIL CITY OF APOPKA DESIGN ENGINEERING DIVISION JANUARY 2014 FIG. 100
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MINOR DEVELOPMENT PLAN FOR 357 W FOURTH STREET

SECTION 09, TOWNSHIP 21, RANGE 28
357 W FOURTH STREET
APOPKA, FL 32703
NOVEMBER 2024

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

NO VARIANCES
AND
NO WAIVERS

TABLE 5.11.4.B: GREEN BUILDING POINT SYSTEM

PROVIDE SKYLIGHTS IN AN AMOUNT NECESSARY TO ENSURE NATURAL LIGHTING IS PROVIDED TO AT LEAST 25 PERCENT OF THE HABITABLE ROOMS IN THE STRUCTURE. (BUILDING PERMIT)	0.50
USE CENTRAL AIR CONDITIONERS THAT ARE ENERGY STAR QUALIFIED. (BUILDING PERMIT)	0.50
USE OF ONLY SOLAR OR TANK-LESS WATER HEATING SYSTEMS THROUGHOUT THE STRUCTURE. (BUILDING PERMIT)	0.50
USE VEGETATION OR VEGETATED STRUCTURES TO SHADE HVAC UNITS.	0.25
PROVIDE A MINIMUM OF FIVE PERCENT OF REQUIRED AUTOMOBILE PARKING SPACES THAT ARE SIGNED AND RESERVED FOR HYBRID/ELECTRIC/LOW ENERGY VEHICLES IN PREFERRED LOCATIONS NEAR THE PRIMARY BUILDING ENTRANCE. (COA DRC SITE PLAN)	0.25
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. (COA DRC SITE PLAN)	0.50 PER ADDITIONAL 5 PERCENT BICYCLE PARKING SPACES
PROVIDE A MINIMUM OF TWO ELECTRIC VEHICLE (EV) LEVEL 2 CHARGING STATIONS THAT ARE MADE AVAILABLE IN A PARKING STRUCTURE OR OFF-STREET PARKING LOT TO THOSE USING THE BUILDING. (COA DRC SITE PLAN)	0.50
INSTALL OPERABLE WINDOWS TO ALLOW FOR NATURAL VENTILATION IN THE EVENT OF POWER FAILURES. (BUILDING PERMIT)	0.25
POINTS	
	3.00
RESILIENCY TO NATURAL HAZARDS	3.25

AGENCIES TO BE NOTIFIED

CITY OF APOPKA:
120 EAST MAIN STREET
APOPKA, FL 32703
(407) 703-1700
REQUIRED

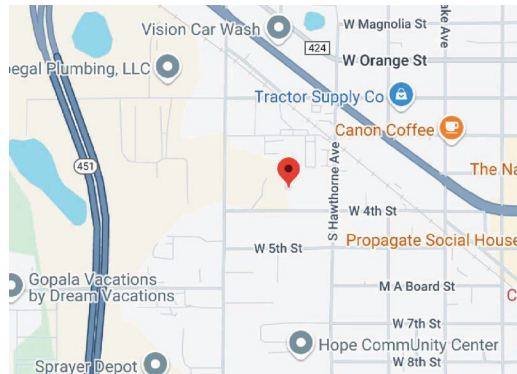
CITY OF APOPKA PUBLIC
SERVICES:
748 EAST CLEVELAND STREET
APOPKA, FL 32703
(407) 703-1731
PROVIDED

FDEP:
3319 MAGUIRE BLVD
SUITE 232
ORLANDO, FL 32803
(407) 894-7550

SPECTRUM:
2251 LUCIEN WAY
MAITLAND, FL 32751
(407) 215-5966

LAKE APOPKA NATURAL GAS:
38 NORTH PARK AVENUE
APOPKA, FL 32703
(407) 656-2734

SJRWMD:
2501 SOUTH BINION ROAD
APOPKA, FL 32703
(407) 677-1656



LOCATION MAP

PROJECT DETAILS

1. PROPOSED SINGLE-STORY METAL BUILDING W/ BLOCK UP 12' - 4"
2. STRUCTURE TO BE USED FOR OFFICE / WAREHOUSE
3. DRIVEWAY CONNECTION TO W FOURTH STREET
4. PROVIDE PAVED PARKING AREA
5. PROVIDE DRY DETENTION POND
6. PROVIDE SIGNAGE AND STRIPING
7. PROVIDE WATER AND SEWER CONNECTIONS
8. UTILITIES PROVIDED BY CITY OF APOPKA
9. TOTAL EXISTING LOT SIZE: 1.98 ACRES
10. TOTAL DEVELOPED AREA: 1.98 ACRES
11. OCCUPANCY TYPE: IL (LIGHT INDUSTRIAL ZONE)
12. MUNICIPALITY: CITY OF APOPKA

PARCEL NUMBER

09-21-28-0868-01-510

IMPORT/EXPORT NOTES

IF THE CONTRACTOR DETERMINES THAT IMPORT OR EXPORT OF FILL DIRT IS REQUIRED, THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN A HAULING PERMIT.

PERMITS REQUIRED

1. POTABLE WATER: CITY OF APOPKA
2. SANITARY SEWER: CITY OF APOPKA
3. SITE DEVELOPMENT PLAN: CITY OF APOPKA
4. STORMWATER: SJRWMD
5. WATER MAIN: N/A
6. SEWER MAIN: N/A

CONTACT INFORMATION

DEVELOPER/OWNER:
MICHAEL R. COOPER CONSTRUCTION COMPANY, INC.
700 GEM COMMERCE COURT
APOPKA, FL 32703
(407) 889-2510
CONTACT: MICHAEL R. COOPER

ENGINEER:
TAYLOR ENGINEERING AND DESIGN LLC
183 SAVANNAH PARK LOOP
CASSELBERRY, FL 32707
PH: (407) 592-4779
CONTACT: VAL TAYLOR, P.E.
VAL@TAYLORCIVIL.COM

SURVEYOR:
IRELAND & ASSOCIATES SURVEYING, INC.
800 CURRENCY CIRCLE
SUITE 1020
LAKE MARY, FL 32746
(407) 678-3366

MINOR SITE PLAN SUBMITTAL ATTACHMENTS:

FLORIDA ENVIRONMENTAL REGULATION SPECIALISTS, INC. (FER)	
ENVIRONMENTAL REPORT - PHASE 1	DECEMBER 24, 2024
YOVAISH ENGINEERING SERVICES, LLC.	
SUBSOIL AND GROUNDWATER LEVEL INVESTIGATION	NOVEMBER 24, 2024
TRAFFIC PLANNING AND DESIGN, INC.	
TRAFFIC IMPACT ANALYSIS	DECEMBER 24, 2024
TAYLOR ENGINEERING & DESIGN, INC.	
STORMWATER MANAGEMENT REPORT	MARCH 25, 2025
EXHIBITS	
AERIAL	MARCH 18, 2025
FIRE TRUCK TURN EXHIBIT	MARCH 18, 2025
SEMI TRUCK TURN EXHIBIT	MARCH 18, 2025
PHOTOMETRICS	MARCH 18, 2025
PHOTOMETRIC CUT-SHEETS	MARCH 18, 2025
PHOTOMETRIC CUT-SHEETS	MARCH 18, 2025
PHOTOMETRIC CUT-SHEETS	MARCH 18, 2025
BUILDING RENDERINGS	MARCH 18, 2025
LANDSCAPE AND IRRIGATION DESIGN - RICHARD T. ABT	
LANDSCAPE AND IRRIGATION PLANS	MARCH 18, 2025
IRELAND & ASSOCIATES SURVEYING, INC.	
BOUNDARY AND TOPOGRAPHIC SURVEY / TREE	DECEMBER 06, 2024

INDEX OF DRAWINGS

1. COVER SHEET
2. GENERAL NOTES
3. DEMOLITION PLAN
4. SITE PLAN
5. PARKING PLAN
6. PAVING, GRADING AND DRAINAGE PLAN
7. UTILITY PLAN
8. YARD DRAINAGE PLAN
9. CITY OF APOPKA DETAILS
10. CITY OF APOPKA DETAILS
11. CITY OF APOPKA DETAILS
12. STANDARD DETAILS
13. DRAINAGE DETAILS
14. RETAINING WALL INFORMATION
15. CROSS SECTIONS

taylor
engineering & design
A FULL SERVICE CIVIL ENGINEERING AND BUILDING DESIGN COMPANY
FBPE CERTIFICATE OF AUTHORIZATION NO. 35963



EXISTING UNDERGROUND AND OVERHEAD UTILITIES:

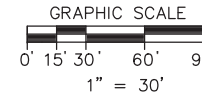
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SIZE, MATERIAL TYPE, LOCATION, DEPTH AND CONDITION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO CONSTRUCTION. THE ENGINEER-OF-RECORD HAS NO RESPONSIBILITY WITH REGARD TO THE COMPLETENESS OR ACCURACY OF THE INFORMATION SHOWN ON THIS PLAN WITH REGARD TO THE EXISTENCE OR NON-EXISTENCE OF UNDERGROUND AND/OR OVERHEAD UTILITIES.

NPDES INSPECTION NOTE:

CONSTRUCTION SITE MUST BE UNDER THE CONTROL OF NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM). ALL INSPECTIONS MUST BE COMPLETED WITH A REPORT BY A STATE CERTIFIED NPDES INSPECTOR.

TREE PROTECTION

EXISTING TREES SHALL BE MAINTAINED TO THE GREATEST EXTENT POSSIBLE AND PROTECTED DURING CONSTRUCTION PER THE CITY'S DEVELOPMENT DESIGN GUIDELINES SECTION 4.5.



GENERAL NOTES:

- PROTECTIVE BARRIERS ARE USED DURING LAND ALTERATION AND CONSTRUCTION. ACTIVITIES TO PROTECT TREES AND NATURAL AREAS TO BE RETAINED ON A SITE.
- PROTECTIVE BARRIERS MUST BE ERECTED AROUND TREES TO BE RETAINED WITHIN AN AREA WHERE LAND ALTERATION AND CONSTRUCTION ACTIVITIES WILL OCCUR AS WELL AS ALONG ADJACENT AREAS WHERE SUCH AREAS ARE ADJACENT TO PERMITTED LAND ALTERATION OR CONSTRUCTION ACTIVITIES. A PROTECTIVE BARRIER MUST REMAIN IN PLACE UNTIL THE LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETED OR UNTIL COMMENCEMENT OF GRADE FINISHING AND SODDING. NO GROUND DISTURBANCE MUST OCCUR WITHIN THE BARRICADE AREA. THE FOLLOWING REPRESENTS THE CITY OF APOPKA MINIMUM PROTECTIVE BARRIER SPECIFICATIONS.
- TREES TO RESTRICT ACCESS INTO THE AREA WITHIN THE DRIP LINE OF A TREE. A PHYSICAL STRUCTURE NOT LESS THAN 3 FEET IN HEIGHT, COMPRISED OF WOOD OR OTHER SUITABLE MATERIAL, IS PLACED AROUND THE TREE AT THE DRIP LINE. EXCEPT WHERE LAND ALTERATION OR CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN THE DRIP LINE. THE DRIP LINE OF A TREE IS THE IMAGINARY VERTICAL LINE THAT EXTENDS DOWNWARD FROM THE OUTERMOST TIPS OF THE TREE'S BRANCHES TO THE GROUND. BARRIER SPECIFICATIONS FOR TREES: FOUR CORNER UPRIGHT STAKES OF NO LESS THAN 2"x2" LUMBER CONNECTED BY HORIZONTAL MEMBERS OF NO LESS THAN 1"x4" LUMBER OR UPRIGHT STAKES SPACED AT 5' INTERVALS OF NO LESS THAN 2"x2" LUMBER CONNECTED BY SILT SCREEN FABRIC OR MATERIAL OF COMPARABLE DURABILITY.
- NATURAL AREAS - TO RESTRICT ACCESS INTO AREAS WHERE LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE NOT AUTHORIZED, A PHYSICAL STRUCTURE NOT LESS THAN 3 FEET IN HEIGHT IS PLACED ALONG THE PERIMETER OF SUCH BARRIER SPECIFICATIONS FOR NATURAL AREAS: UPRIGHT STAKES OF NO LESS THAN 2"x2" LUMBER SPACED NO MORE THAN 25' APART AND CONNECTED BY TWINE FLAGGED WITH PLASTIC SURVEYING TAPE AT REGULAR INTERVALS OF 5'-10'. OTHER METHODS OF DEMARCATION WILL BE CONSIDERED DEPENDING UPON THE CHARACTERISTICS OF THE SITE. A. TO PROTECT ALL ABOVE GROUND PORTIONS OF TREES AND OTHER SIGNIFICANT VEGETATION FROM MECHANICAL DAMAGE. B. TO PROTECT ROOT SYSTEMS FROM COMPACTION. C. TO PROVIDE AWARENESS OF PROTECTED AREAS TO EQUIPMENT.
- DURING LAND ALTERATIONS AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL, UNLESS APPROVED BY THE CITY OF APOPKA, TO REMOVE VEGETATION (EXCEPT BY HAND) BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIP LINE OF A TREE TO REMAIN ON-SITE.
- ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- IN ORDER TO MINIMIZE SOIL EROSION, PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE MEASURES (I.E. HAY BALES, BAFFLES, SODDING, AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY, TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.
- NO EXCAVATION SHALL EXTEND BELOW THE PERMITTED DESIGN DEPTHS/ELEVATIONS SHOWN ON THE DRAWINGS, UNLESS ADDITIONAL TESTING SUPPORTS OTHERWISE; AND NO LOWER SEMI-CONFINING UNIT CLAYEY SOIL MATERIAL AND/OR LIMESTONE MATERIALS SHALL BE EXCAVATED, REGARDLESS IF THESE MATERIALS ARE ENCOUNTERED WITHIN THE PERMITTED EXCAVATION DEPTHS/ELEVATIONS. IF ANY LOWER SEMI-CONFINING UNIT CLAYEY SOIL MATERIALS OR LIMESTONE MATERIALS ARE ENCOUNTERED ABOVE THE PERMITTED DEPTHS/ELEVATIONS, THEN EXCAVATION OPERATIONS SHALL CEASE IN THE GENERAL AREA.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE INSTALLATION OF ADEQUATE EROSION CONTROL AS REQUIRED BY CITY OF APOPKA, AND PER PLANS. THESE DEVICES MUST BE MAINTAINED IN GOOD CONDITION THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL ALL STABLE SOILS HAVE STABILIZED. BMP MAINTENANCE TO BE IN LINE WITH NPDES REQUIREMENTS. BMP INSPECTIONS MUST OCCUR AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A QUALIFYING RAIN EVENT, 1/2" OR MORE OF 24 HOUR RAIN FALL.
- ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. NO VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
- EROSION AND SEDIMENT CONTROL MEASURES ARE TO 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.
- SUCH MATERIALS FROM WORK ON THIS PROJECT SHALL BE CONTAINED, AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR IN WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF THE EFFORTS. ANY NECESSARY REMEDIES SHALL BE PERFORMED WITHOUT DELAY.
- ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING STATE-COUNTY-CITY OR PRIVATE ROADS AND FACILITIES FROM THIS SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR/BUILDER.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED. A CERTIFICATE OF COMPLIANCE WILL NOT BE ISSUED UNTIL THE ABOVE REQUIREMENTS HAVE BEEN MET.
- EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS OF THE CITY OF APOPKA AND THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT, SUBJECT TO AUTHORIZATION AND APPROVED VARIANCES, WAIVERS, AND/OR CONDITIONAL CHANGES.
- THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN TO THE CITY OF APOPKA. CONTRACTORS SHALL USE BEST MANAGEMENT PRACTICES IN CONTROLLING EROSION AND SEDIMENT DURING CONSTRUCTION.
- CLEARED AREAS FOR IMPROVEMENT AND/OR CONSTRUCTION SHALL BE WATERED TO PREVENT WIND EROSION.
- ONLY TREES MARKED WILL BE REMOVED.

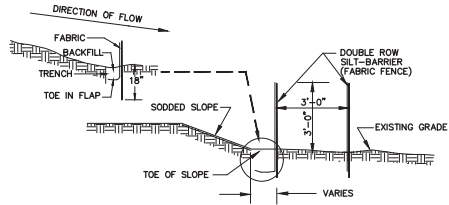
CONSTRUCTION NOTES:

- TREE PROTECTION BARRIER, SEE DETAIL.
- SEE SILT FENCE DETAIL.
- GRAVEL CONSTRUCTION ENTRANCE (SEE SHEET 13 FOR DETAIL).
- VEHICLE AND CONCRETE WASH AREA (SEE SHEET 13 FOR DETAIL).
- EXISTING CHAIN LINK FENCE AND GATE TO BE REMOVED.
- EXISTING WOOD FENCE ON SITE TO BE REMOVED.
- EXISTING TELEPHONE RISER TO BE RELOCATED.

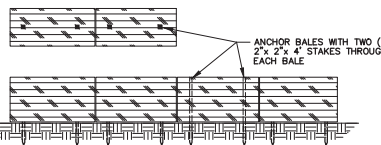
LEGEND

- SILT FENCE
- TREES TO BE REMOVED
- TO BE REMOVED

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



FABRIC FENCE SILT-BARRIER



BALED HAY SILT-BARRIER

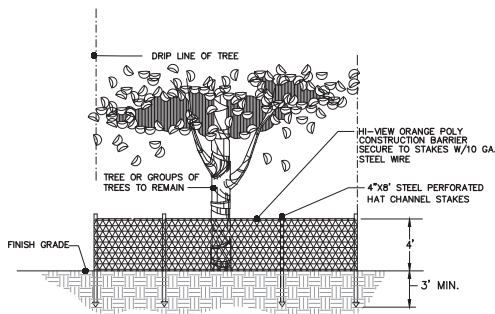
PERIMETER EROSION AND SEDIMENT CONTROL

NOTES:

- CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ON TO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE. THE BARRIER MUST REMAIN IN PLACE UNTIL UPLAND VEGETATION IS ESTABLISHED.
- BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.

SILT BARRIER DETAIL

NOT TO SCALE

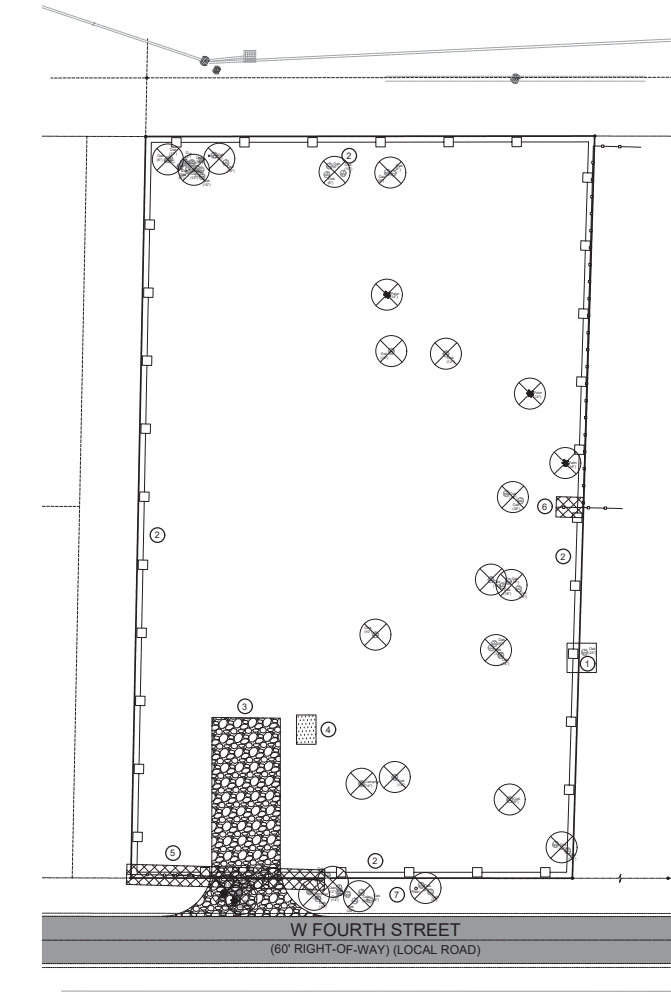


NOTE:

NO STOCKPILING OF MATERIALS, TRASH OR DEBRIS SHALL BE PERMITTED WITHIN THE BARRIER.

TREE PROTECTION BARRIER

NOT TO SCALE



DEMOLITION AND EROSION CONTROL PLAN

SCALE: 1" = 30'

PROJECT NUMBER:	090924	DATE:	06/04/2025	NO.	1	DATE:	06/17/25	REVISIONS	CITY OF APOPKA, INC. COMMENTS
DRAWN BY:	SPS	SCALE:	N.T.S.	CHECKED BY:	VPT	SECTION:	09		
DESIGNED BY:	VPT	TOWNSHIP:	25	APPROVED BY:	VPT	IMAGE:	28		

DEMOLITION AND EROSION CONTROL PLAN

3617 W FOURTH STREET
APOPKA, FLORIDA 33570

taylor engineering & design

INCORPORATED & DESIGN, LLC
WWW.TAYLORENGR.COM
14000 N. W. 10TH AVE., SUITE 100
DADE COUNTY, FL 33126

DATE: 06/04/25

REVISIONS

1 OF 15

<u>SITE DATA TABLE</u>	
<u>CURRENT ZONING:</u>	I-L
<u>FUTURE LAND USE:</u>	I-L
<u>BUILDING SETBACK:</u>	
FRONT = 10'	
N SIDE = 10'	
S SIDE = 10' (FACING W FOURTH STREET)	
REAR = 10'	
<u>LANDSCAPE BUFFER:</u>	
FRONT = N/A	
N SIDE = N/A	
S SIDE = N/A (FACING W FOURTH STREET)	
REAR = N/A	
<u>PARKING REQUIREMENTS:</u>	
3 SPACES PER 1,000 SF OF OFFICE	
2 SPACES PER 1,000 SF OF WAREHOUSE	
3 SPACES X (1,800 SF/1,000 SF) = 05 SPACES	
2 SPACES X (18,450 SF/1,000 SF) = 37 SPACES	
2 SPACES (HANDICAP) = 02 SPACES	
TOTAL SPACES REQUIRED = 44	
<u>FLOOR AREA RATIO ALLOWED:</u>	= 0.40
<u>FLOOR AREA RATIO PROVIDED:</u>	= 0.23
<u>INDIVIDUAL BUILDING INFORMATION:</u>	
TOTAL SQUARE FOOTAGE	= 20,250 SF
MAX. BUILDING HEIGHT	= 35 FT
ACTUAL BUILDING HEIGHT	= 33 FT
<u>PROPOSED CONDITIONS:</u>	
IMPERVIOUS (BUILDINGS)	= 20,250 SF = 0.465 AC (23.45%)
IMPERVIOUS (DRIVEWAYS)	= 41,132 SF = 0.944 AC (47.62%)
PERVIOUS	= 24,982 SF = 0.574 AC (29.93%)
TOTAL PROPERTY (SF & AC) =	86,364 SF = 1.983 AC (100.00%)
<u>PARKING PROVIDED:</u>	
43 SPACES @ 9x18' (REGULAR)	
1 SPACE @ 8x18' (COMPACT)	
2 SPACES @ 12x18' (HANDICAP)	
46 SPACES TOTAL PROVIDED	
<u>PARCEL ID NUMBERS:</u>	
09-21-28-0668-01-510	

1. THIS PLAN INDICATES THE LOCATION OF THE PROPERTY BOUNDARY, AS PROVIDED BY IRELAND & ASSOCIATES SURVEYING, INC, 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.



GRAPHIC SCALE

0' 15' 30' 60'

1" = 30'

1. CONSTRUCT ONE (1) STORY BUILDING. SEE ARCHITECTURAL PLANS FOR DOOR AND WINDOW LOCATIONS PLUS DIMENSIONS.
2. CONSTRUCT 1" ASPHALTIC CONCRETE SURFACE (TYPE S-III), 6" LIME ROCK AND 12" STABILIZED SUBBASE.
3. RIGHT-OF-WAY: CONSTRUCT 6" REINFORCED CONCRETE WITH 6" X 6", 10X10 W/OUT OR FIBERMESH, 12" STABILIZED SUBBASE. (REFER TO PLAN SHEETS 13 FOR CONSTRUCTION DETAILS.)
4. ALL GREEN AREAS TO BE SOODED AND/OR LANDSCAPED.
5. CONSTRUCT 3' WIDE CONCRETE SIDEWALK. (SEE PLAN SHEET 12) (DRAIN AWAY FROM BUILDING).
6. CONSTRUCT OFFSITE 6' WIDE CONCRETE SIDEWALK. (SEE PLAN SHEET 12) (DRAIN AWAY FROM SITE).
7. CONSTRUCT STANDARD FDOT TYPE "D" CURB PER THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX 300, LATEST EDITION.
8. ALL CURB RADII ARE 4'-0" AS MEASURED FROM THE INSIDE FACE OF CURB UNLESS OTHERWISE NOTED.
9. 3" CONCRETE CURB TAPER.
10. REPLACE EXISTING SOD EQUAL TO OR BETTER THAN ORIGINAL CONDITION.
11. DUMPSTER ENCLOSURE (SEE PLAN SHEET 11). 10'-0" X 10'-0" X 6" THICK CONCRETE PAD (SEE PLAN SHEETS 13).
12. MONUMENT SIGN 5'0" X 3'0" (SEE PLAN SHEET 13).
13. CONSTRUCT 2'1" RADIUS MEASURED FROM INSIDE FACE OF CURB
14. INSTALL FOUR (4) PARK BENCH'S. BENCH LOCATION, TYPE AND SIZE TO MEET CITY OF ADOBE REQUIREMENTS

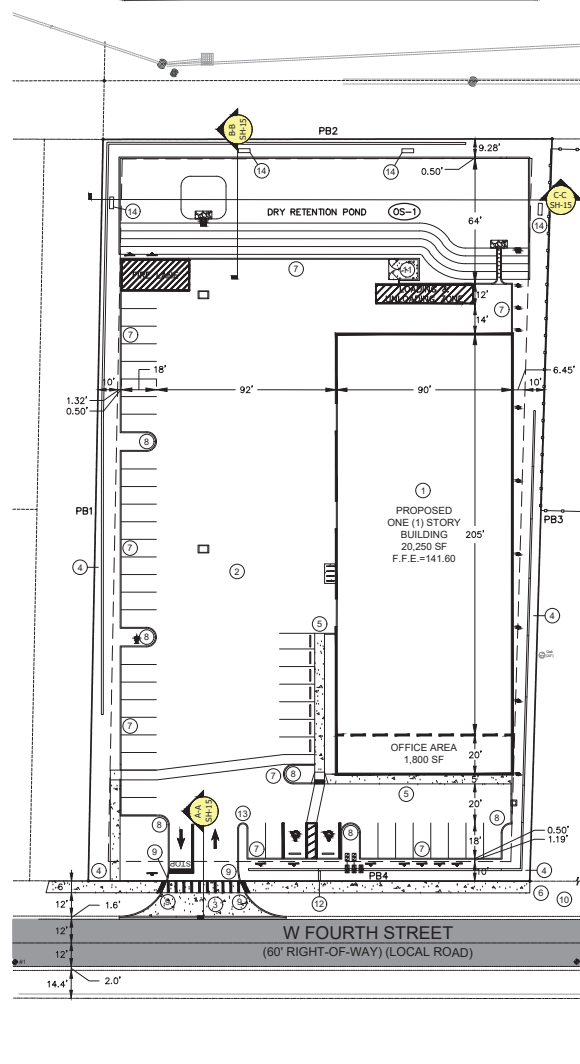
PROPERTY BOUNDARY:	BEARING:	LENGTH:
PB1	N 01°08'17" E	379.26'
PB2	S 89°56'02" E	229.60'
PB3	S 01°43'18" W	379.69'
PB4	N 89°58'50" W	225.73'

OPEN SPACE	
TABLE 5.4.5 OPEN SPACE STORMWATER MANAGEMENT	
TRANSPORTATION	
NUMBER:	ITEM:
OS-1	OPEN SPACE AREA 1

OPEN SPACE CALCULATIONS	
<u>REQUIRED:</u>	
5.0% OF TOTAL PROPERTY	
TOTAL PROPERTY = 86,364 SF	
<u>$0.050 \times 86,364 \text{ SF} = 4,318.20 \text{ SF}$</u>	
TOTAL OPEN SPACE REQUIRED = 4,318 SF	
<u>PROVIDED:</u>	
75% OF STORMWATER PONDS	
POND 1 AREA (OPEN SPACE 1) = 10,184.91 SF	
<u>$0.75 \times 10,184.91 \text{ SF} = 7,638.68 \text{ SF}$</u>	
TOTAL OPEN SPACE PROVIDED = 7,639 SF	

GENERAL NOTES

1. VEHICLE PARKING IS PROHIBITED ON THE SPINE ROADS (W FOURTH STREET).
2. 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.
3. NO OUTSIDE STORAGE OR MAINTENANCE.
4. INTENDED USE: LIGHT INDUSTRIAL.
5. DIRECTIONAL ARROWS PER FOOT STANDARD INDEX 17346 (LATEST EDITION).



SEE SHEET 5 (PARKING PLAN) FOR DESIGN INFORMATION

SEE SHEET 5 (PARKING PLAN) FOR DESIGN INFORMATION

SINGLE PHASE

OWNED AND MAINTAINED BY THE PROPERTY OWNER

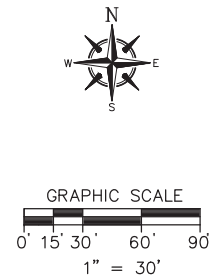
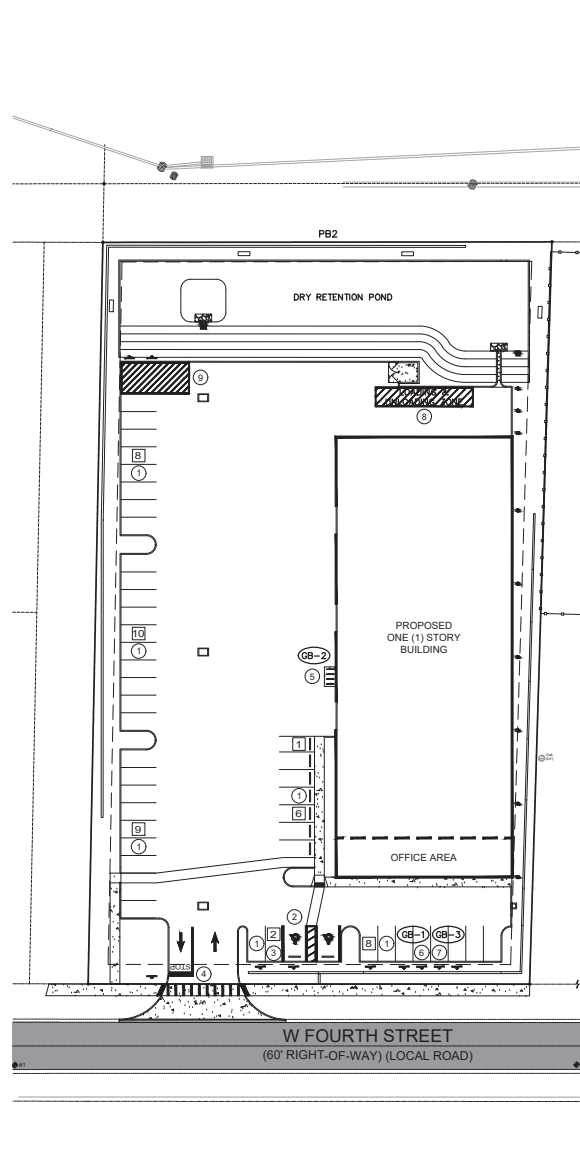
SCALE: 1" = 30'

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



GREEN BUILDING POINTS	
SEE COVER FOR TABLE 5.11.4-B GREEN BUILDING POINT SYSTEM	
TRANSPORTATION	
NUMBER:	ITEM:
(GB-1)	HYBRID/ELECTRIC/LOW ENERGY PARKING SPACES
(GB-2)	BICYCLE PARKING (MORE THAN REQUIRED)
(GB-3)	ELECTRIC VEHICLE CHARGING STATIONS

GENERAL NOTES	
1.	VEHICLE PARKING IS PROHIBITED ON THE SPINE ROADS (W FOURTH STREET).



- # CONSTRUCTION NOTES:
- 1 STRIPE THE PROPOSED REGULAR PARKING SPACES PER THE MANUAL, ENTITLED "MANUAL ON URBAN TRAFFIC CONTROL DEVICES" (MUTCD).
 - 2 STRIPE AND SIGN THE PROPOSED HANDICAPPED PARKING SPACES PER THE DOCUMENTS ENTITLED "AMERICANS WITH DISABILITIES ACT" (A.D.A. & THE MUTCD).
 - 3 INSTALL TP-25 STANDARD HANDICAPPED PARKING SIGNS PER FDOT STANDARD INDEX (LATEST EDITION). PROVIDE A SIGN THAT SAYS "VAN ACCESSIBLE" PER LOC SEC. 5.1.5.
 - 4 CONSTRUCT 12.50 LF OF 24" STOP BAR AND STOP SIGN.
 - 5 CONSTRUCT 6' WIDE X 14' LONG CONCRETE BIKE RACK PAD WITH FOUR (4) BIKE RACKS (PARKING FOR 8 BICYCLES).
 - 6 FOUR (4) ELECTRIC CAR PARKING ONLY SIGNS.
 - 7 TWO (2) ELECTRIC CAR CHARGING STATIONS.
 - 8 STRIPE THE PROPOSED 10'X50' LOADING & UNLOADING ZONE TO MEET THE REQUIREMENTS OF THE CITY OF APOPKA.
 - 9 STRIPE THE PROPOSED 16'X35' FIRE LANE WITH 6" YELLOW THERMOPLASTIC. TWO (2) R-401 FIRE LANE NO PARKING TOW-AWAY ZONE SIGNS AND PAIR OF CURBS TO BE PAINTED RED ALONG THE FIRE LANE. ALL MATERIALS TO MEET THE REQUIREMENTS OF THE CITY OF APOPKA.

PARKING PLAN

SCALE: 1" = 30'

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

DATE
11/06/2025

SHEET
1 OF 15



taylor
engineering & design

1415 FORBESMAN & CARRILLI LLC
315 HARRISON PARK LOOP
FARMERSVILLE, TX 77834
PHONE: 817.447.8779
WWW.TAYLORENGR.COM

PROJECT NUMBER:
083924

DATE:
03/04/2025

NO.

REVISIONS

BY

PARKING PLAN

DRAWN BY: SFS

SCALE: N.T.S.

DESIGNED BY: VPT

SECTION: 09

CHECKED BY: VPT

TOWNSHIP: 09

APPROVED BY: VPT

DATE: 03/04/2025

NO. 28

PROJECT LOCATION: 3871 W. RICHMOND STREET, AUSTIN, TEXAS 78756

PROJECT NUMBER:
083924

DATE:
03/04/2025

NO.

REVISIONS

BY



Professional Engineer Seal

This Seal has been digitally signed and sealed by Taylor Engineering & Design, Inc. and is valid for use on this project only. It is not valid for use on any other project.

Printed copies of this seal are not valid for use on any project.

DRAWN BY: SFS

SCALE: N.T.S.

DESIGNED BY: VPT

SECTION: 09

CHECKED BY: VPT

TOWNSHIP: 09

APPROVED BY: VPT

DATE: 03/04/2025

NO. 28

PROJECT LOCATION: 3871 W. RICHMOND STREET, AUSTIN, TEXAS 78756

YARD DRAINAGE DESIGN

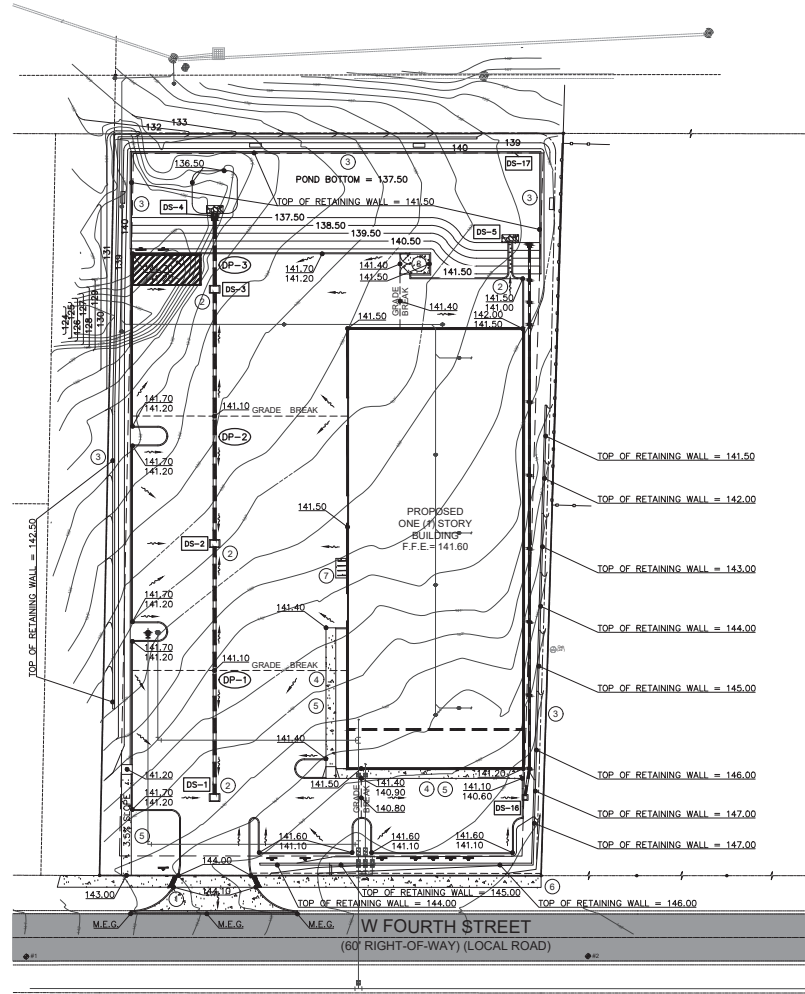
SEE SHEET 8 (YARD DRAINAGE PLAN) FOR DESIGN INFORMATION.

DRAINAGE PIPE TABLE

NUMBER:	TYPE:	SIZE:	GRADE:	LENGTH:
DP-1	RCP	12"x18"	0.51%	126.50'
DP-2	RCP	12"x18"	0.51%	126.63'
DP-3	RCP	12"x18"	0.51%	37.10'

DRAINAGE STRUCTURE TABLE

NUMBER:	TYPE OF STRUCTURE:	RIM:	INVERTS:
DS-1	TYPE 'C' INLET	140.75	N 138.67
DS-2	TYPE 'C' INLET	140.75	N 137.93 S 138.03
DS-3	TYPE 'C' INLET	140.75	N 137.19 S 137.29
DS-4	MITERED END SECTION	-	S 137.00
DS-5	DRAINAGE FLUME	-	N 137.50 S 141.03
DS-16	DRAINAGE INLET	140.50	N 141.19
DS-17	24" WEIR	-	000.00



CONSTRUCTION NOTES:

- MATCH EDGE OF EXISTING PAVEMENT WITH SAW CUT.
- CONTRACTOR TO ENSURE POSITIVE FLOW TO INLETS.
- RETAINING WALL (TRINITY SYSTEM) WITH 4' HIGH BLACK CHAIN LINK FENCE (SEE PLAN SHEETS 14 AND 15).
- SIDEWALK ELEVATION 6" ABOVE PAVEMENT.
- CONSTRUCT 5' WIDE CONCRETE SIDEWALK AT 2.00% MAXIMUM GRADE (SEE PLAN SHEET 12) (DRAIN AWAY FROM BUILDING).
- CONSTRUCT OFFSITE 6' WIDE CONCRETE SIDEWALK AT 2.00% MAXIMUM GRADE (SEE PLAN SHEET 12) (DRAIN AWAY FROM SITE).
- CONCRETE BIKE RACK PAD, ELEVATION - FINISHED GRADE (DRAIN AWAY FROM BUILDING).
- DUMPSTER ENCLOSURE: CONTRACTOR TO ENSURE POSITIVE FLOW TO PAVEMENT AREA.

DRAINAGE NOTES

- ALL PIPING IS MANUFACTURED BY ADVANCE DRAINAGE SYSTEMS.
- ALL CONCRETE STRUCTURES MANUFACTURED BY MACK CONCRETE.
- CONTRACTOR TO GRADE SOILS SO THAT THE ELEVATIONS ARE 0.10' BELOW IMMEDIATE ADJACENT SIDEWALK.
- ALL CONCRETE SIDEWALKS ARE TO BE CONSTRUCTED AT 2.00% MAXIMUM SLOPE PER THE ADA.

DETENTION POND RECOVERY

ALL DETENTION PONDS SHALL BE DRY WITHIN 72 HOURS FOLLOWING A STORM EVENT.

EXISTING UNDERGROUND AND OVERHEAD UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SIZE, MATERIAL TYPE, LOCATION, DEPTH AND CONDITION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO CONSTRUCTION. THE ENGINEER-OF-RECORD HAS NO RESPONSIBILITY WITH REGARD TO THE COMPLETENESS AND/OR ACCURACY OF INFORMATION SHOWN ON THIS PLAN WITH REGARD TO THE EXISTING AND/OR NON-EXISTENCE OF UNDERGROUND OR OVERHEAD UTILITIES.

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

PAVING, GRADING & DRAINAGE PLAN

SCALE: 1" = 30'

BY

REVISIONS

DATE

NO.

DATE: 06/04/2025

PROJECT NUMBER: 090924

DRAWN BY: SPFS

SCALE: N.T.S.

DESIGNED BY: VPT

SECTION: 09

CHECKED BY: VPT

TOWNSHIP: 21

APPROVED BY: VPT

RANGE: 28

PAVING, GRADING & DRAINAGE PLAN

847 W FOURTH STREET

ALBUQUERQUE, ALBUQUERQUE, ALBUQUERQUE

STATE OF NEW MEXICO

Professional Engineer

No. 65007

ALBUQUERQUE, NEW MEXICO

STATE OF NEW MEXICO

Professional Engineer

No. 65007

ALBUQUERQUE, NEW MEXICO

18 HOURS BEFORE DIGGING

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CALL TOLL FREE

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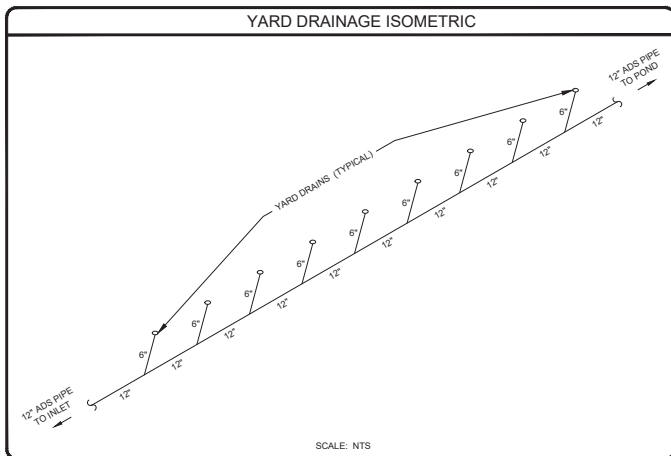
OF FLORIDA, INC.

Page 26 of 140

EXISTING UNDERGROUND AND OVERHEAD UTILITIES

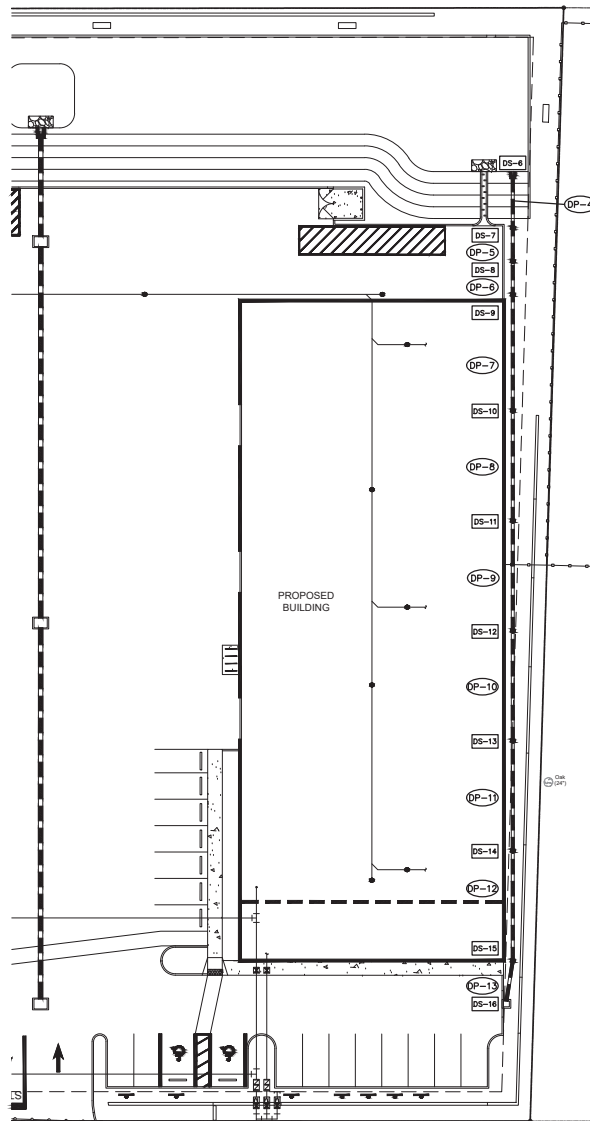
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SIZE, MATERIAL TYPE, LOCATION, DEPTH AND CONDITION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO CONSTRUCTION. THE ENGINEER-OF-RECORD HAS NO RESPONSIBILITY WITH REGARD TO THE COMPLETENESS AND/OR ACCURACY OF INFORMATION SHOWN ON THIS PLAN WITH REGARD TO THE EXISTING AND/OR NON-EXISTENCE OF UNDERGROUND OR OVERHEAD UTILITIES.

YARD DRAINAGE ISOMETRIC



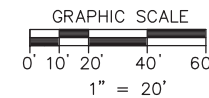
DRAINAGE PIPE TABLE

NUMBER:	TYPE:	SIZE: (ADS)	GRADE:	LENGTH:
DP-4	HDPE	12"	0.52%	19.16'
DP-5	HDPE	12"	0.52%	11.35'
DP-6	HDPE	12"	0.52%	11.40'
DP-7	HDPE	12"	0.51%	39.59'
DP-8	HDPE	12"	0.51%	37.50'
DP-9	HDPE	12"	0.51%	37.50'
DP-10	HDPE	12"	0.51%	37.50'
DP-11	HDPE	12"	0.51%	37.50'
DP-12	HDPE	12"	0.51%	37.50'
DP-13	HDPE	12"	0.50%	13.98'



YARD DRAINAGE PLAN

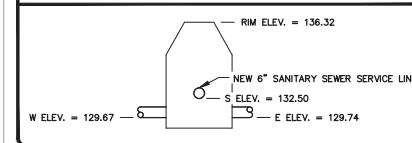
SCALE: 1" = 20'



DRAINAGE STRUCTURE TABLE

NUMBER:	TYPE OF STRUCTURE:	RIM:	INVERTS:
DS-6	MITERED END SECTION	-	S 137.50
DS-7	YARD DRAIN INLET	140.80	N 137.60 S 137.60
DS-8	YARD DRAIN INLET	140.80	N 137.66 S 137.66
DS-9	YARD DRAIN INLET	140.80	N 137.72 S 137.72
DS-10	YARD DRAIN INLET	140.80	N 137.92 S 137.92
DS-11	YARD DRAIN INLET	140.80	N 138.11 S 138.11
DS-12	YARD DRAIN INLET	140.80	N 138.30 S 138.30
DS-13	YARD DRAIN INLET	140.80	N 138.49 S 138.49
DS-14	YARD DRAIN INLET	140.80	N 138.68 S 138.68
DS-15	YARD DRAIN INLET	140.80	N 138.87 S 138.87
DS-16	DRAINAGE INLET	140.50	N 138.94

EXISTING MANHOLE INFORMATION



DETAIL "A"

N.T.S.

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

PROJECT NUMBER: 090924

DATE: 06/04/2025

NO. 1

REVISIONS

DATE: 06/04/25

NO. 1

BY: [Signature]

DATE: 06/04/25

NO. 1

YARD DRAINAGE PLAN

3471 W. MOUNTAIN STREET
APOKA, FLORIDA 33780

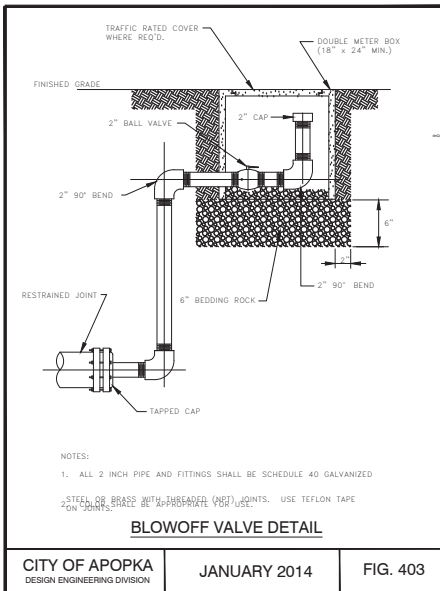
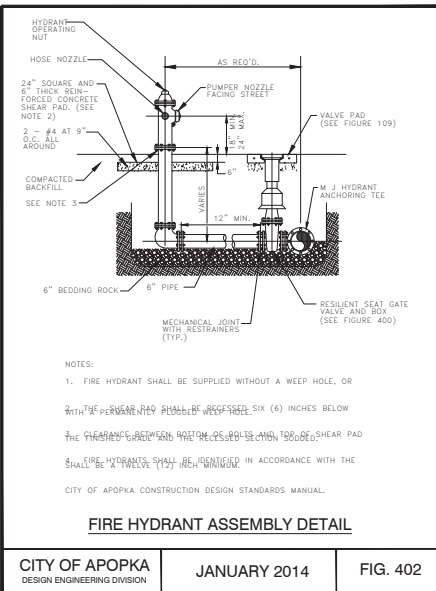
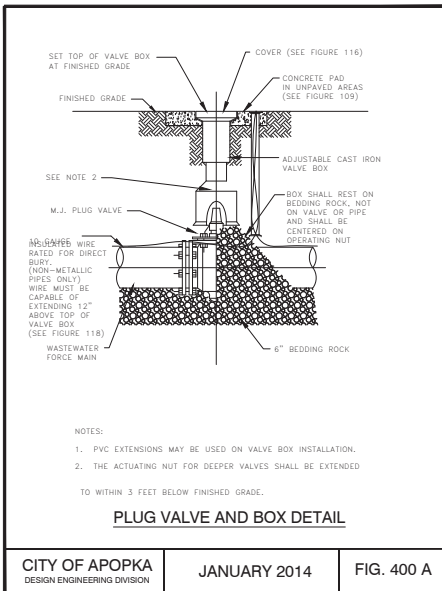
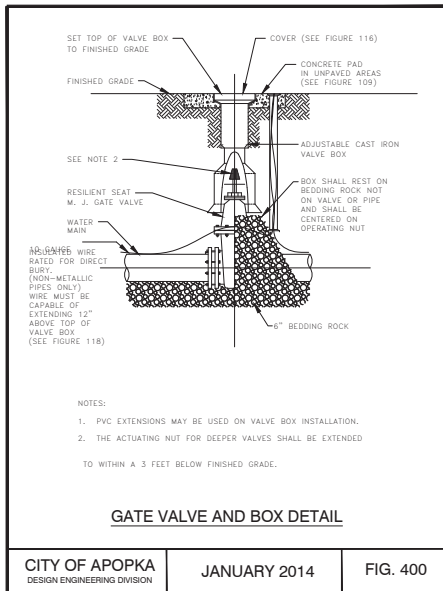
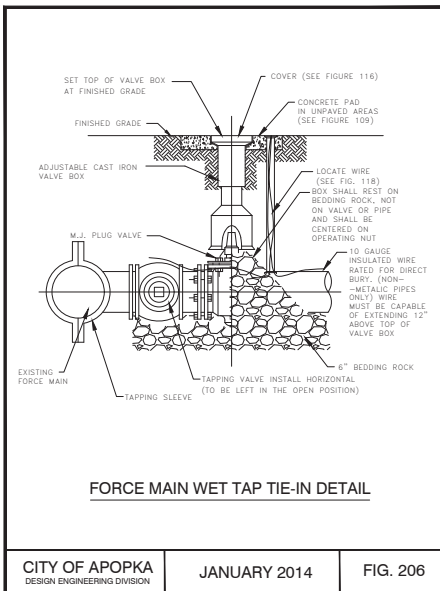
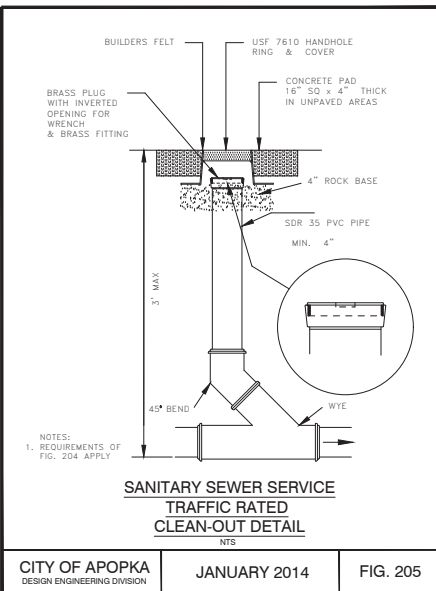
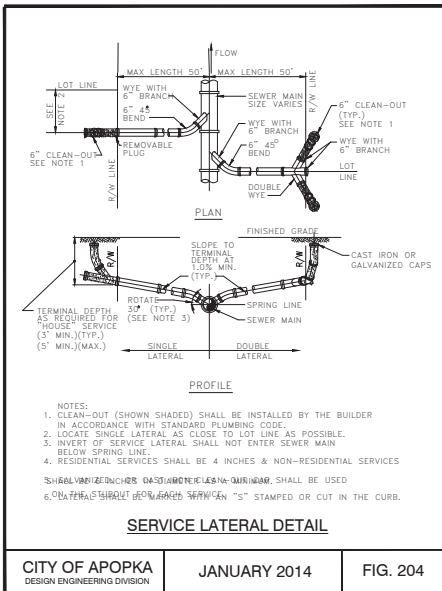
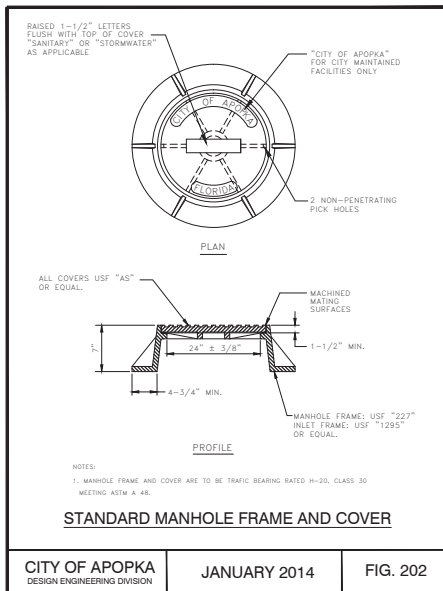
taylor engineering & design

INCORPORATED IN FLORIDA

19000 14TH STREET, SUITE 200
TAMPA, FLORIDA 33613
WWW.TAYLORENGINEERING.COM

DATE: 06/04/25

SHEET 8 OF 18



BY		REVISIONS		DATE		NO.	
PROJECT NUMBER:	090924	DATE:	06/04/2025				
DRAWN BY:	SPS	SCALE:	N.T.S.				
DESIGNED BY:	VPT	SECTION:	09				
CHECKED BY:	VPT	TOWNSHIP:	21				
APPROVED BY:	VPT	IMAGE:	28				

CITY OF APOPKA
DETAILS

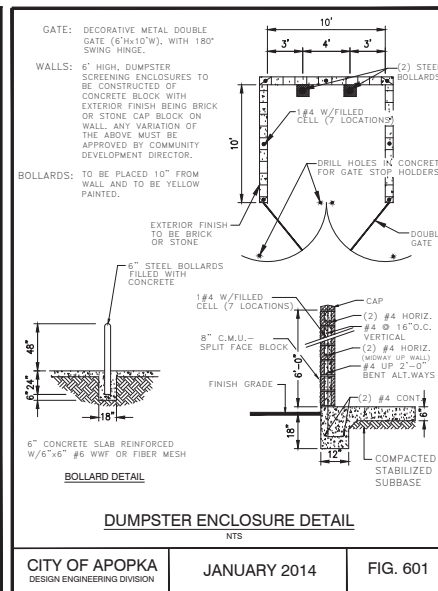
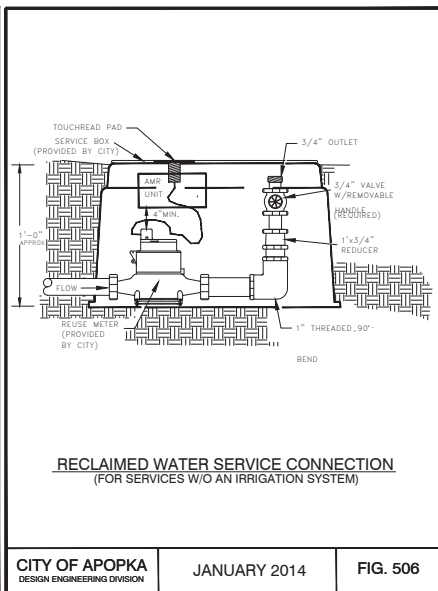
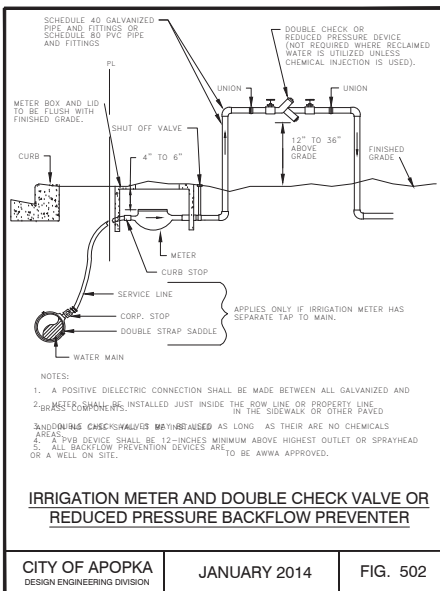
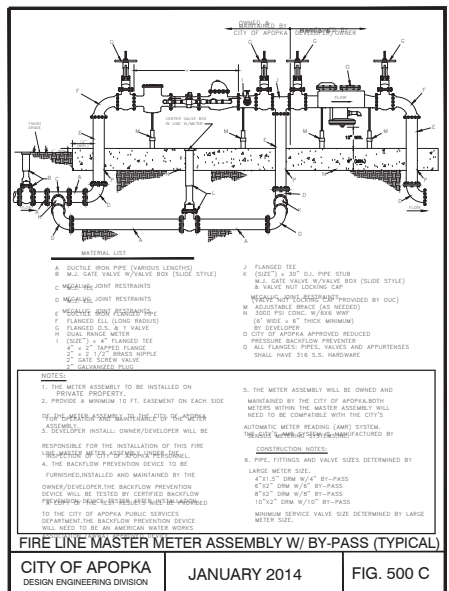
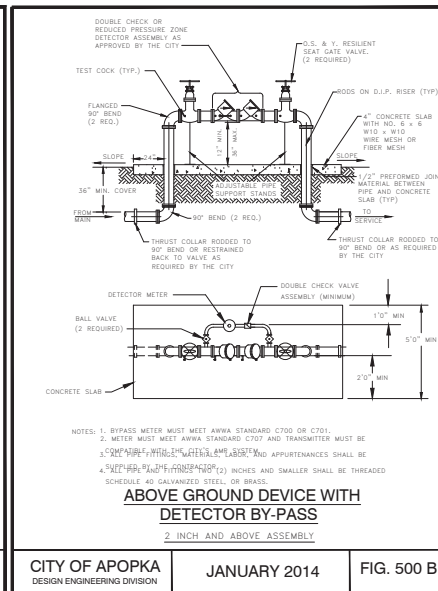
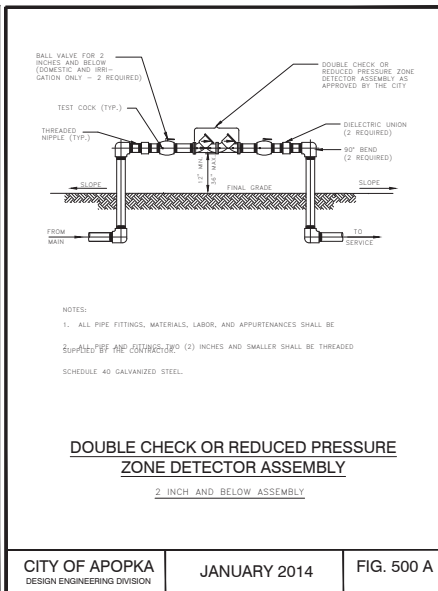
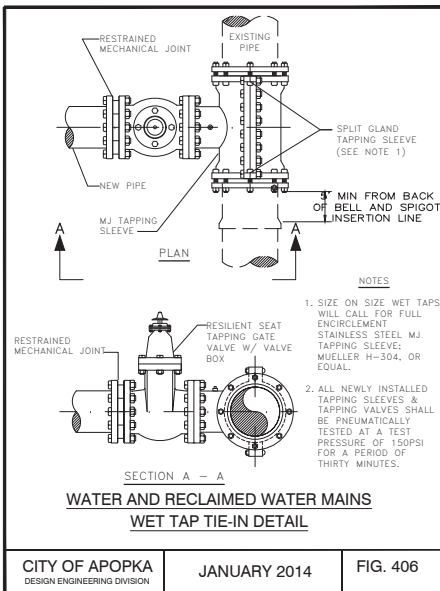
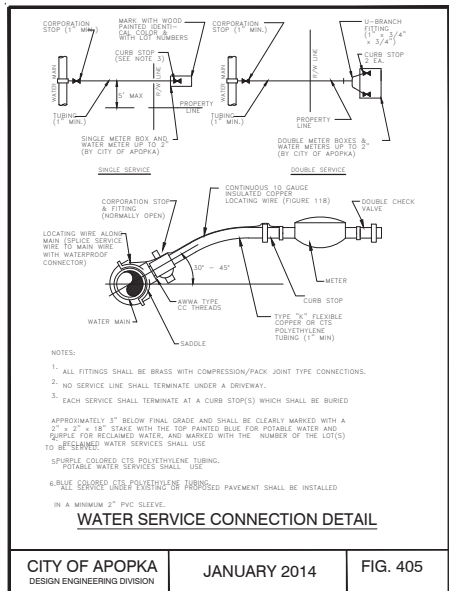
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TAYLOR ENGINEERING & DESIGN, LLC
10000 W. HAVEN STREET
APOPKA, FLORIDA 33706
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CITY 2200

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18
OF 18



CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

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FIG. 500 B

FIG. 500 C

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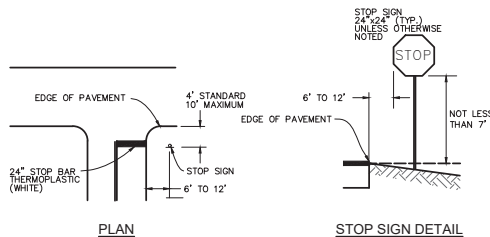
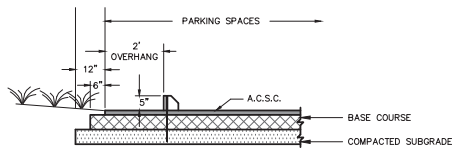
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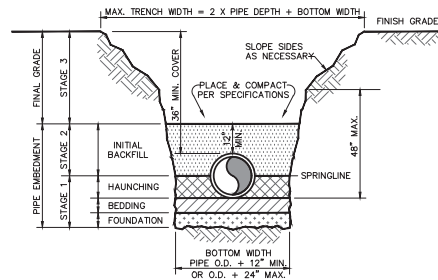
BLADES: ALCOA #86054, 6063-T6 ALLOY, ETCHED, DEGREASED, DEBURRED, WITH #1200 ALODINE FINISH, #2277 GREEN SCOTCHLITE BACKGROUND OR EQUAL.
DIMENSIONS-6"HEIGHT; 24",30"or36"LENGTHS.

LETTERS: NAME - 4" SERIES "B" #2270 SCOTCHLITE (SILVER) OR EQUAL.

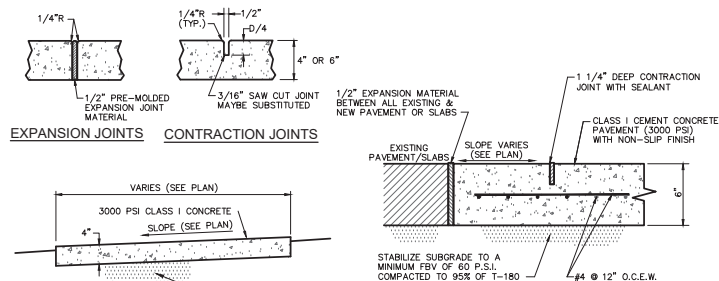
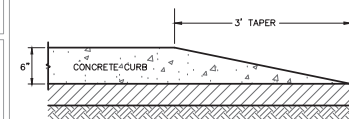
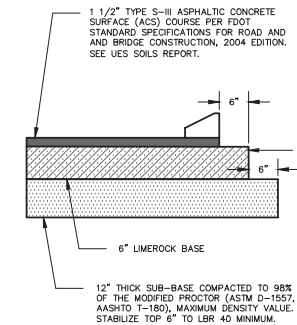
BRACKETS: DIE-CAST HIGH STRENGTH ALUMINUM ALLOY, MIN. TENSILE STRENGTH 45,000 P.S.I., DEGREASED, TUMBLED, AND POLISHED, SIDES OF ALL SLOTS SHALL BE SOLID METAL WITH TWO HOLES PER SLOT (SAME SIDE) DRILLED TO 7/32" AND TAPPED TO 1/4" TO RECEIVE STAINLESS STEEL ALLEN-HEAD SET SCREWS, SKIRT OF POST CAP BRACKET TO BE DRILLED AND TAPPED FOR 3 SCREWS OF WHICH NO TWO SCREWS ARE TO BE LESS THAN 90° OR MORE THAN 135° APART. (METRO HUSKEY No. 6 or EQUAL.)

POST: STANDARD 2" I.D. (2 3/8" O.D.) 14' LONG GALVANIZED STEEL, "GLOSS" DIPPED.

CONCRETE BASE: 2000#



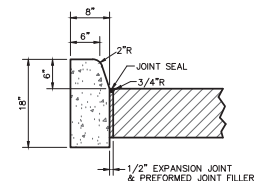
- NOTES:
1. **DEPTH OF PIPE** MAY BE FIELD ADJUSTED TO MEET SPECIAL CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
 2. **ALL TRENCHING** SHALL COMPLY WITH THE REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
 3. **FOUNDATION:** A FOUNDATION MAY BE REQUIRED IN POOR SOIL CONDITIONS.
 4. **BEDDING:** BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE AND ADJUST FOR PIPE BELLS. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. MATERIAL SHALL BE PLACED IN 4" TO 6" LIFTS, LIGHTLY COMPACTED, UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL.
 5. **HAUNCHING:** HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
 6. **INITIAL BACKFILL:** INITIAL BACKFILL SHALL BE HAND PLACED TO 12" ABOVE THE TOP OF THE PIPE. THE SOIL SHALL BE CONSOLIDATED BY HAND TAMPING OR WALKING THE SOIL IN PLACE.
 7. **FINAL BACKFILL:** FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. MATERIAL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTATION AND DENSITY TESTS.
 8. **DENSITY:** ALL BACKFILL SHALL BE COMPACTED TO THE REQUIREMENTS OF THE SPECIFICATIONS.



TYPICAL SECTION OF 4" THICK CONCRETE SIDEWALK
N.T.S.

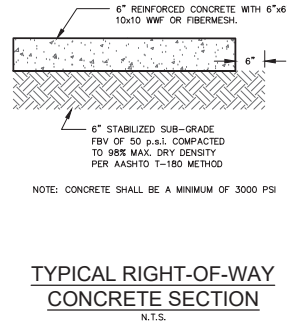
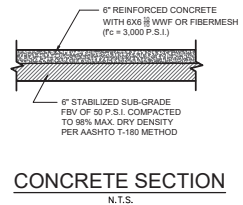
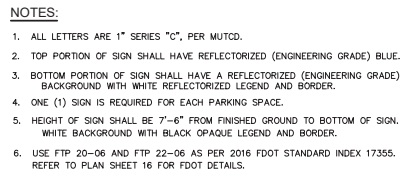
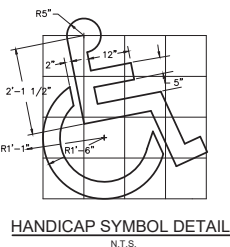
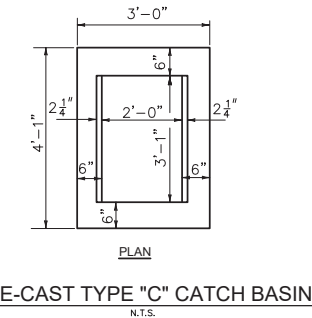
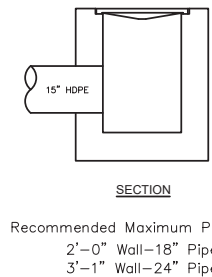
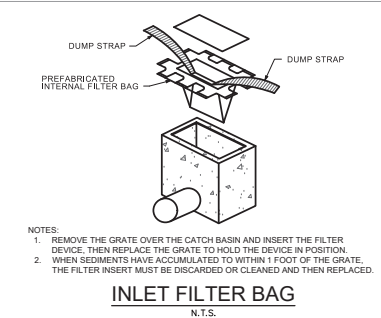
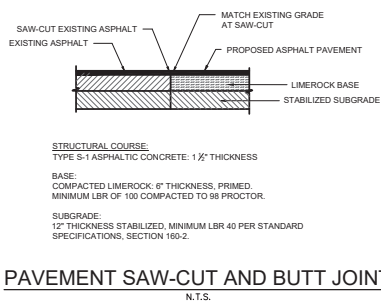
TYPICAL SECTION OF 6" THICK CONCRETE SIDEWALK
N.T.S.

- NOTES:
1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTIONS 345 & 350.
 2. ALL TESTING SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 345-8 FOR 28 DAY COMPRESSIVE STRENGTH 3000 PSI CONCRETE.
 3. PROVIDE EXPANSION JOINTS 20' CENTER TO CENTER, AT PC & PT OF CURVES, JUNCTIONS OF EXISTING AND NEW SIDEWALKS, AND WHERE SIDEWALK ABUTS CURBS, DRIVEWAYS & SIMILAR STRUCTURES.
 4. PROVIDE CONTRACTIONS JOINTS 5' CENTER TO CENTER.
 5. SOD SHALL BE PLACED BELOW EDGE OF SIDEWALK TO ALLOW DRAINAGE.



NOTES:
SAW CUT CONTRACTION JOINTS ON 10' CENTERS MAX.
WITHIN 48 HOURS AFTER POURING CURB.
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE
WITH FDOT SPECIFICATIONS SECTION 520 AND FDOT ROADWAY &
TRAFFIC DESIGN STANDARDS INDEX NUMBER 300.

[illegible]

[illegible]

Segmental Block Wall System

Residential

Commercial

Natural Buff

Commercial

----- 1 Block | 3 Solutions -----

1Frictional MSE With Geogrid
2Structural Earth Anchor/Soil Nail
3Gravity Mass No Fines Concrete

www.snyderonline.com

RETAINING WALL PERMIT

SIGNED AND SEALED RETAINING WALL DETAILS AND PROFILES WILL BE SUBMITTED FOR PERMITTING AS A SEPARATE ENTITY TO THE CITY OF APOPKA BUILDING DEPARTMENT.

Segmental Block Wall System

Estimating Charts

Style - Chiseled Face

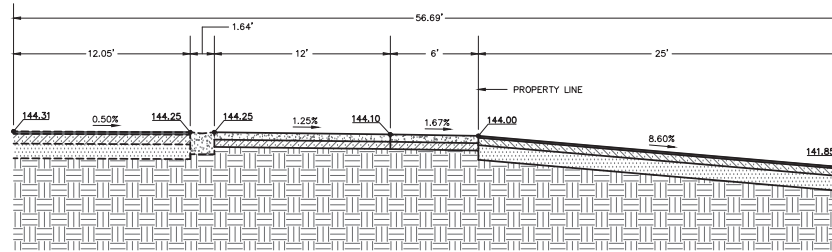
- 8'H x 18"W x 12"D (1 SF/Unit and approx. 75 lbs per unit)
- 5/4" Setback (3/4" Per Course)
- Mechanical (positive) geogrid connector available
- Vertically aligned cores for efficient stone filling
- Rear hand holds assist in lifting

NO SURCHARGE

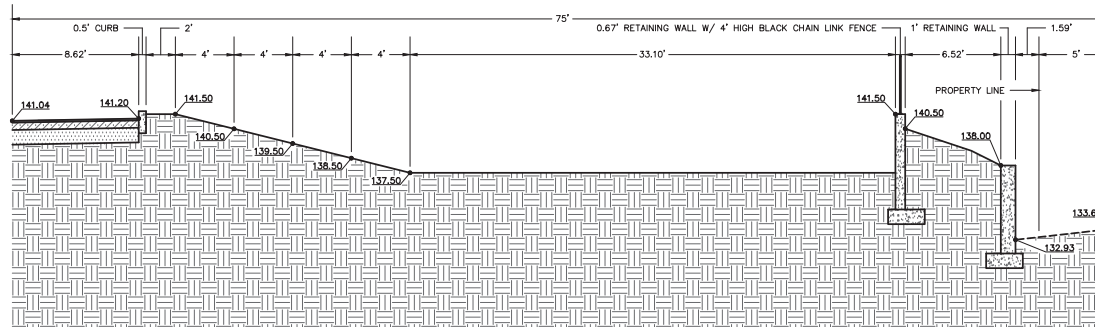
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Soil Type	Units	Soil Type	Units	Soil Type	Units
HT3	1.00	1.00	1.00	1.00	1.00
HT4	1.00	1.00	1.00	1.00	1.00
HT5	1.00	1.00	1.00	1.00	1.00
HT6	1.00	1.00	1.00	1.00	1.00
HT7	1.00	1.00	1.00	1.00	1.00
HT8	1.00	1.00	1.00	1.00	1.00
HT9	1.00	1.00	1.00	1.00	1.00
HT10	1.00	1.00	1.00	1.00	1.00
HT11	1.00	1.00	1.00	1.00	1.00
HT12	1.00	1.00	1.00	1.00	1.00
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HT22	1.00	1.00	1.00	1.00	1.00
HT23	1.00	1.00	1.00	1.00	1.00
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HT25	1.00	1.00	1.00	1.00	1.00
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HT28	1.00	1.00	1.00	1.00	1.00
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HT42	1.00	1.00	1.00	1.00	1.00
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250 PSF SURCHARGE

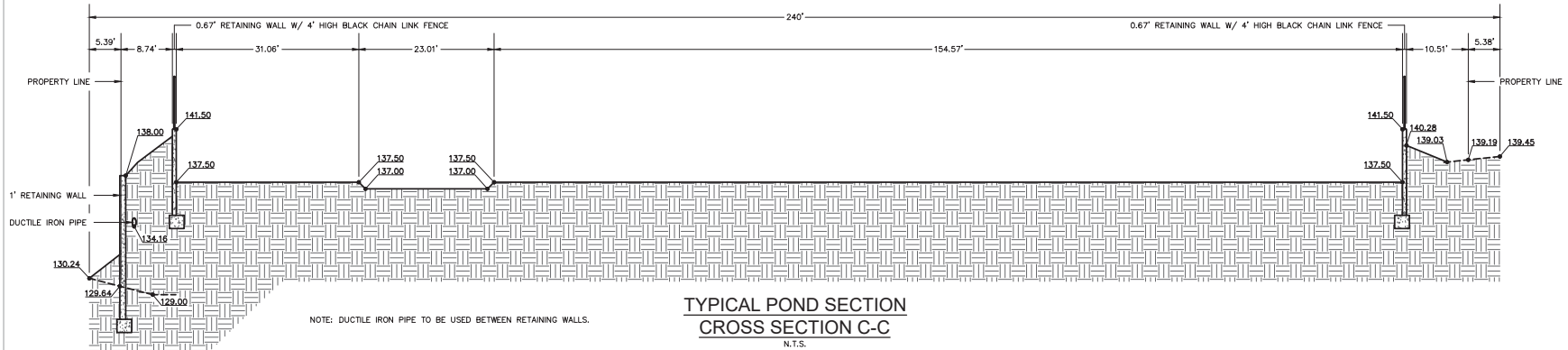
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HT6	1.00	1.00	1.00	1.00	1.00
HT7	1.00	1.00	1.00	1.00	1.00
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HT10	1.00	1.00	1.00	1.00	1.00
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HT76	1.00	1.00	1.00	1.00	1.00
HT77	1.00	1.00	1.00	1.00	1.00
HT78	1.00	1.00	1.00	1.00	



TYPICAL ACCESS CONNECTION
SW FOURTH STREET
CROSS SECTION A-A
 N.T.S.



TYPICAL POND SECTION
CROSS SECTION B-B
 N.T.S.



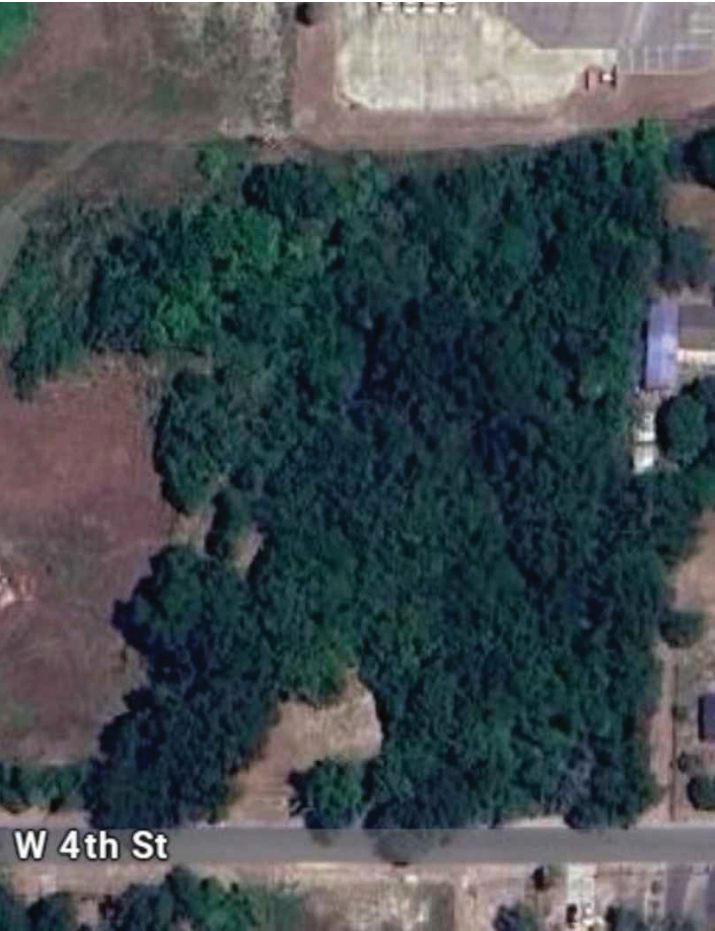
TYPICAL POND SECTION
CROSS SECTION C-C
 N.T.S.

TYPICAL CROSS-SECTIONS SW 4th STREET APOKA, FLORIDA 33066	PROJECT NUMBER: 090924	DATE: 06/04/2025	NO. 1	REVISIONS CITY OF APOKA INC COMMENTS	BY [Signature]
	DRAWN BY: SPFS SCALE: N.T.S.	DESIGNED BY: VPT SECTION: 09	CHECKED BY: VPT TOWNSHIP: 21	APPROVED BY: VPT RANGE: 25	
	This sheet has been digitally signed and sealed by the State of Florida.				
	This sheet has been digitally signed and sealed by the State of Florida.				

taylor
 engineering & design
 ENGINEERING & DESIGN
 TAYLOR ENGINEERING & DESIGN, LLC
 14000 N. W. 10th Ave., Suite 200
 Coral Gables, FL 33134

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 80027
 Exp. 12/31/2026

15 of 15



W 4th St

AERIAL EXHIBIT

N.T.S.

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

DATE: 06/04/2025		NO.		DATE		REVISIONS		BY	
PROJECT NUMBER: 090924									
DRAWN BY: SPS		SCALE: N.T.S.							
DESIGNED BY: VPT		SECTION: 09							
CHECKED BY: VPT		TOWNSHIP: 21							
APPROVED BY: VPT		IMAGE: 28							

AERIAL EXHIBIT

847 W FOURTH STREET
APOKA, FLORIDA 34706

STATE OF FLORIDA
No. 60527
Professional Engineer
Civil

This has been here digitally signed and sealed by the State of Florida. The seal is required by law. Printed copies of this document are not authentic unless signed and sealed and the seal information is visible on the original or a true and correct copy.

taylor
engineering & design
ENGINEERING & DESIGN
INCORPORATED
WWW.TAYLORENGINEERING.COM
PO BOX 1800
SUNSHINE STATE ONE CALL
OF FLORIDA, INC.
COLUMBIA, FL 32210

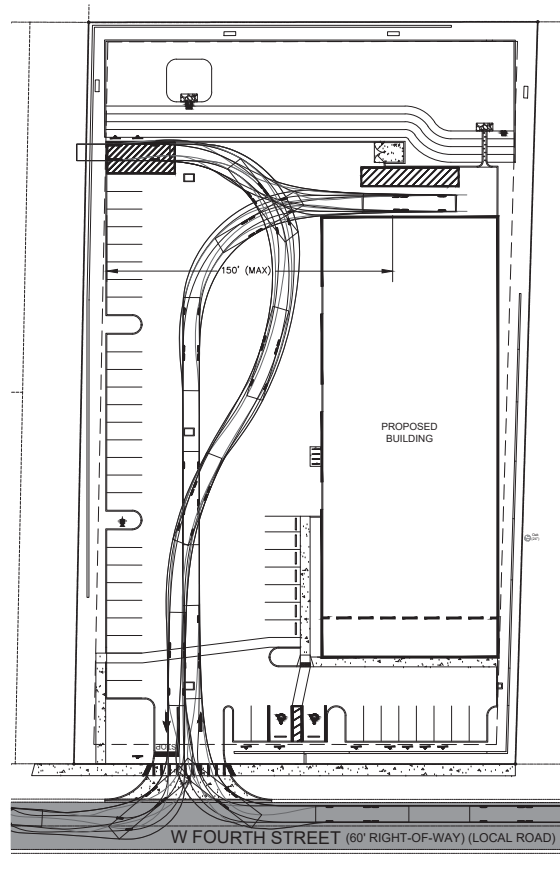
DATE: 06/04/2025

SHEET
EX-1

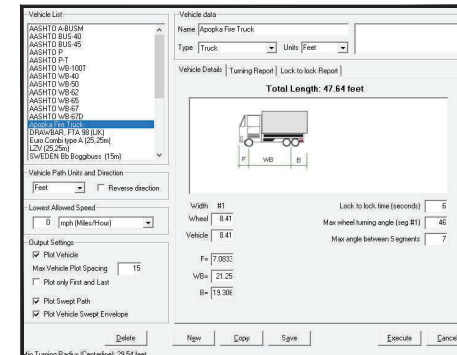
OF 7

FIRE TRUCK INFORMATION:

PLEASE REFERENCE EXHIBIT 3.0 FROM THE APOPKA FIRE DEPARTMENT ACCESS AND DESIGN ENGINEERING INFORMATION "CONTRACTOR'S REFERENCE GUIDE 2023".



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



FIRE TRUCK TURN EXHIBIT

SCALE: 1" = 30'

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

FIRE TRUCK TURN EXHIBIT 30' W FOURTH STREET APOPKA, FLORIDA 32060	PROJECT NUMBER:	090924	DATE:	06/04/2025	NO.	1	BY:	
	REVISIONS							
	CITY OF APOPKA INC COMMENTS							
	DRAWN BY:	SPS	SCALE:	N.T.S.	DESIGNED BY:	VPT	SECTION:	09
	CHECKED BY:	VPT	TOWNSHIP:	21	APPROVED BY:	VPT	IMAGE:	28
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 ENGINEERING & DESIGN
 14700 N. W. 10th Ave.
 Suite 200
 Fort Lauderdale, FL 33309
 PHONE: 954-564-7770
 WWW.TAYLORENGINEERING.COM

DATE: 06/04/2025

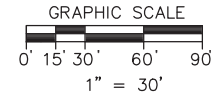
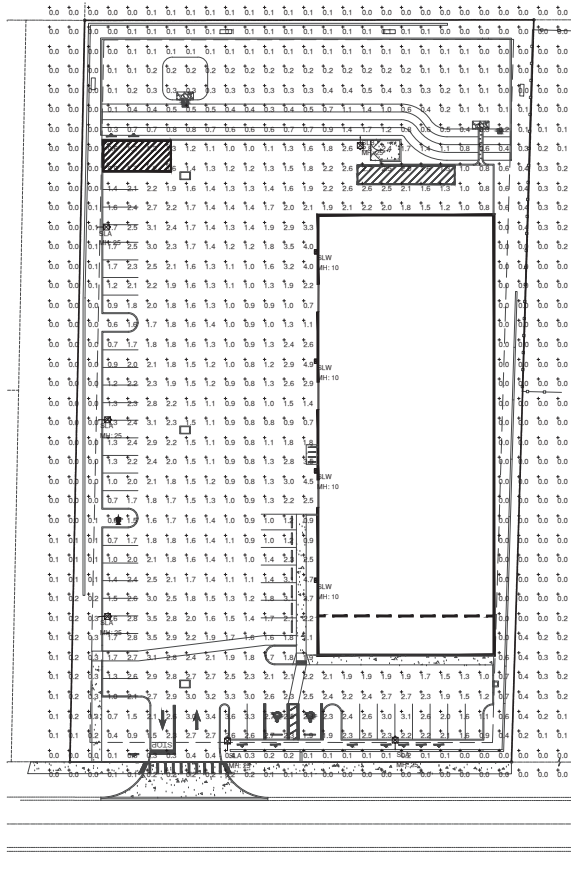
SHEET

EX-2

OF 7

Landreth Lighting Luminaire Schedule									
Symbol	MANUFAC	Qty	Label	Arrangement	Description	LLF	BUG Rating	Arranged Watts	Arranged Lumens
	Lithonia Lighting	5	SLA	Single	DSX0 LED P8 40K 70CRI BLC4 MVLCT RPA NLTAR2 PRIN FINISH TBD; MOUNTED 25' AFG ON DIRECT BURIED CONCRETE POLE	1.000	B0-U0-G4	137	12870
	Lithonia Lighting	1	SLB	Single	DSX0 LED P8 40K 70CRI T3M MVLCT RPA NLTAR2 PRIN FINISH TBD; MOUNTED 25' AFG ON DIRECT BURIED CONCRETE POLE	1.000	B3-U0-G4	137	17134
	Lithonia Lighting	4	SLW	Single	WEDGE LED P3 40K 70CRI T1T4 MVLCT NLTAR2 PR FINISH TBD	1.000	B1-U0-G1	32.138	3573

Landreth Lighting Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
Parking Lot	Illuminance	Fc	1.83	4.9	0.6	8.17



STREET LIGHT POLE

1. LIGHT POLE FOOTERS WILL NOT BE EXPOSED ABOVE GROUND.
2. LIGHT POLE FIXTURE WILL NOT EXCEED THE HEIGHT OF THE BUILDING.
3. LUMINERS SHALL NOT EXCEED 1.0 AT THE PROPERTY LINE.
4. ALL POLE FIXTURE LAMPS SHALL BE 120W, 120-227 VOLTS TYPE TO BE LIGHT EFFICIENT DESIGN, LED ONLY OR EQUAL, MDI/LED-8090M50-5000K.

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

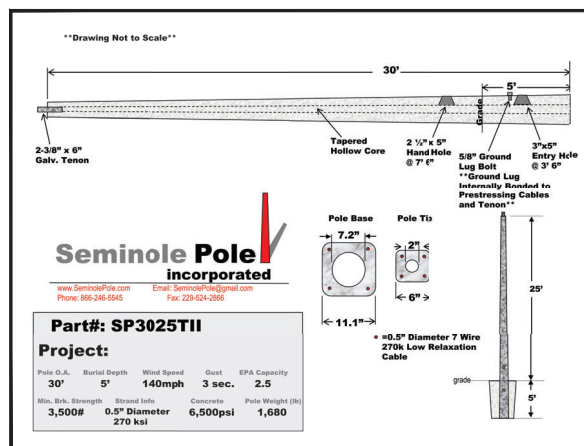
PHOTOMETRIC PLAN

SCALE: 1" = 30'



2701 Maitland Center Parkway, Ste. 225
Maitland, FL 32751
Phone: (407) 682-6255

BY	REVISIONS	DATE	NO.	PROJECT NUMBER:	DATE:	NO.	DRAWN BY:	SCALE:	N.T.S.	DESIGNED BY:	VPT	SECTION:	09	CHECKED BY:	VPT	TOWNSHIP:	21	APPROVED BY:	VPT	PAGE:	28
				090924	06/04/2025																
PHOTOMETRIC PLAN										SUNSHINE STATE ONE CALL OF FLORIDA, INC.											
SHEET										SHEET											
EX-4										EX-4											
OF 7										OF 7											



PHOTOMETRIC CUT-SHEETS 347 W. ROUGHWATER STREET APOKA, FLORIDA 33780	PROJECT NUMBER: 090924	DATE: 06/04/2025	NO.	REVISIONS	BY
	DRAWN BY: SPFS	SCALE: N.T.S.	NO.	REVISIONS	BY
	DESIGNED BY: VPT	SECTION: 09	NO.	REVISIONS	BY
	CHECKED BY: VPT	TOWNSHIP: 21	NO.	REVISIONS	BY
APPROVED BY: VPT	IMAGE: 28	NO.	REVISIONS	BY	DATE

STATE OF
FLORIDA
COUNTY OF
DADE

NO. 60527

147

THIS DRAWING HAS BEEN DIGITALLY SIGNED AND SEALED BY ME. I, TAYLOR, DO NOT SIGNATURE.

Printed copies of this document are not considered signed and sealed and the digital signature must be verified on the electronic copies.

taylor
engineering & design
INCORPORATED

TAYLOR ENGINEERING & DESIGN, LLC
347 W. ROUGHWATER STREET
APOKA, FLORIDA 33780

PHONE: 888-245-5543
WWW.TAYLORENGINEERING.COM
CITY 33801

DATE: 06/04/2025

SHEET: 09-5

OF 7

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Control / Sensor Options

Motion/Ambient Sensor (PIR, PIR+H)

Motion/Ambient Sensor (Sensor Switch) MODEC is integrated into the luminaires. The sensor provides both Motion and Daylight (passive dimming of the luminaires). For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking tier motion while preventing false tripping from the environment. The integrated passive digital enables energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIR+H option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 6-15' and, while PIR+H is optimized for 15-24' mounting height.

Networked Control (NLTAR2)

LightPath AIR is a wireless lighting control platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 902 MHz wireless communication and app (CLARITYAIR) based configurability combined together make LightPath AIR secure, reliable and easy to use platform.

PIR

HIGH VIEW

PIR+H

SIDE VIEW

TOP VIEW

System	Site Type	High end output (100% output)	Photoaid	Beam Type	Beam angle	Range (ft)
PIR or PIR+H	Medium - 10' (17% of output) Medium - 10' (17% of output)	100 (100% output)	Enabled @ 50'	4mm	5 mm	Medium - 3m Photoaid - 40m
PIR+H or PIR+H+H	Medium - 10' (17% of output) Photoaid - 10' (17% of output)	100 (100% output)	Enabled @ 50'	4mm	5 mm	Medium - 3m Photoaid - 40m
NLTAR2 PIR, NLTAR2 PIR+H, NLTAR2 PIR+H+H	Medium - 10' (17% of output) Photoaid - 10' (17% of output)	100 (100% output)	Enabled @ 50'	15 mm	5 mm	Medium - 3m Photoaid - 40m

UL 924 Response - nLight AIR Devices with EM Option

- NLTAR2EM devices will remain at their high-end and ignore wireless lighting control commands, unless a normal power sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLARITY+ mobile app, NLTAR2EM devices must be associated with a group that includes a normal power sensing device to receive the NPS broadcast.
- The non-emergency devices, NLTAR2 PIR or NLTAR2 PIR+H, with version 3.4 or later firmware can be used for normal power sensing.

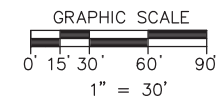
COMMERCIAL OUTDOOR

One Lithonia Way • Conley, Georgia 30126 • Phone 1-800-758-2578 • usa@lithonia.com

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W006262-00

Rev. 07/2016

[illegible]

SCALE: 1" = 30'

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

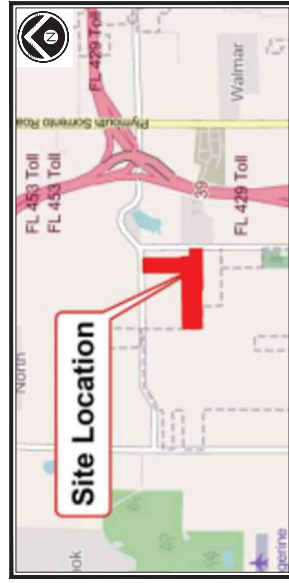
CONSTRUCTION SITE PLAN
FOR
ONDICH SOUTH
CITY OF APOPKA, FLORIDA

OCPA PARCEL ID # 11-20-27-0000-00-037, 11-20-27-0000-00-069, 12-20-27-0000-00-001, 12-20-27-0000-00-012, 12-20-27-0000-00-046, 12-20-27-0000-00-048

UTILITY PROVIDERS

[illegible]

VICINITY MAP



FEMA FLOOD MAP

SCALE: 1" = 600'

SOILS MAP

SCALE: 1" = 500'

AERIAL MAP

SCALE: 1" = 500'

[illegible]

PROJECT TEAM:

ENVIRONMENTAL CONSULTANT
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PHONE: (407) 644-5355
FAX: (407) 644-5355
EMAIL: BRIAN@ALLENANDCOMPANY.COM

[illegible][illegible]

W. C. C. GARDNER, UNIVERSITY OF ST. THOMAS, 127, ST. THOMAS STREET, LONDON, E.C.4, ENGLAND; and
J. H. GARDNER, UNIVERSITY OF ST. THOMAS, 127, ST. THOMAS STREET, LONDON, E.C.4, ENGLAND.

[illegible][illegible]

PROJECT TEAM:

APPLICANT DEVELOPER	ENVIRONMENTAL CONSULTANT
PULTE HOMES CORP., LLC	ENVIRONMENTAL CONSULTANTS
10000 W. BAYVIEW BLVD., SUITE 500	ENVIRONMENTAL CONSULTANTS
400 VINLAND ROAD, SUITE 800	3025 EAST SOUTH STREET
ORLANDO, FLORIDA 32811	ORLANDO, FLORIDA 32803

[illegible]

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APPLAN ENGINEERING
BOARD OF PROFESSIONAL ENGINEERING CERTIFICATION NO. 52174
2221 LEE ROAD, SUITE 27
WINTER PARK, FLORIDA 32789
(407) 960-5868

UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE PERFORMED CONSISTENT WITH THE FOLLOWING SPECIFICATIONS:

- ORANGE COUNTY, FLORIDA
- CITY OF APOPKA, FLORIDA
- APPOPKA WATER MANAGEMENT DISTRICT
- FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
- NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

- HANDICAP ACCESSIBILITY NOTES:**
1. ALL CONSTRUCTION MUST MEET OR EXCEED ALL REQUIREMENTS AS OUTLINED IN THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE FLORIDA ACCESSIBILITY CODE, MOST RECENT EDITIONS. BOTTOM OF CURB RAMP ELEVATION (B.O. RAMP) IS RELATIVE TO EACH CURB RAMP CONDITION. ACTUAL ELEVATIONS SHALL BE BASED ON EXISTING

1. ALL CONSTRUCTION MUST MEET OR EXCEED ALL REQUIREMENTS AS OUTLINED IN THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE FLORIDA ACCESSIBILITY CODE, MOST RECENT EDITIONS. BOTTOM OF CURB RAMP ELEVATION (B.O. RAMP) IS RELATIVE TO EACH CURB RAMP CONDITION. ACTUAL ELEVATIONS SHALL BE BASED ON EXISTING

4. CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE

- [illegible]

AS-BUILT DRAWINGS SHALL BE PREPARED BY AND CERTIFIED (SIGNED AND SEALED) BY A REGISTERED SURVEYOR, AND SHALL BE PROVIDED TO THE ENGINEER OF RECORD UPON COMPLETION OF THE PROJECT SITE IMPROVEMENTS A MINIMUM OF 1 WEEK PRIOR TO CONTRACTORS ATTEMPT FOR FINAL CERTIFICATE OF OCCUPANCY (CO). AS-BUILT DRAWINGS

- AS-BUILT DRAWINGS SHALL BE PREPARED BY AND CERTIFIED (SIGNED AND SEALED) BY A REGISTERED SURVEYOR, A PROFESSIONAL ENGINEER, OR A PROFESSIONAL LAND SURVEYOR. THE SURVEYOR OR ENGINEER SHALL BE DULY LICENSED TO PRACTICE IN THE STATE OF CALIFORNIA. THE SURVEYOR OR ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE SURVEY DATA AND THE PREPARATION OF THE AS-BUILT DRAWINGS. THE AS-BUILT DRAWINGS SHALL BE PREPARED BY AND CERTIFIED (SIGNED AND SEALED) BY A REGISTERED SURVEYOR, A PROFESSIONAL ENGINEER, OR A PROFESSIONAL LAND SURVEYOR. THE SURVEYOR OR ENGINEER SHALL BE DULY LICENSED TO PRACTICE IN THE STATE OF CALIFORNIA. THE SURVEYOR OR ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE SURVEY DATA AND THE PREPARATION OF THE AS-BUILT DRAWINGS.
- REQUIREMENTS OF ALL REGULATORY AGENCIES HAVING JURISDICTION AS WELL AS THE CRITERIA OUTLINED BELOW SHALL BE REFLECTED IN ANY CHANGES TO THE IMPROVEMENTS MADE DURING CONSTRUCTION AND MUST MEET THE MINIMUM REQUIREMENTS OF ALL REGULATORY AGENCIES HAVING JURISDICTION AS WELL AS THE CRITERIA OUTLINED BELOW. THE AS-BUILT DRAWINGS MUST BE CLEARLY LABELED AS AS-BUILT DRAWINGS. THE FOLLOWING INFORMATION, AT A MINIMUM, SHALL BE CERTIFIED ON THE AS-BUILT DRAWINGS:
- WATER DISTRIBUTION SYSTEM.**
- LOCATION AND DIMENSIONS OF PIPES, VALVES, FITTINGS, CHANGE OF DIRECTION, AND OTHER ASSOCIATED FACILITIES.
- WASTEWATER COLLECTION/TRANSMISSION SYSTEM.**
- LOCATION, DIMENSION, AND INVERT ELEVATIONS OF PIPES, MANHOLES (INCLUDING RIM ELEVATION), LIFTSTATION, FORCEMAIN, FITTINGS, CHANGE IN DIRECTION AND OTHER ASSOCIATED FACILITIES.
- RAINING AND DRAINAGE SYSTEM.**
- DIMENSIONS AND ELEVATIONS OF ALL DISCHARGE STRUCTURES INCLUDING ALL WEIRS, SLOTS, GATES, PIPES, SUMMERS.
 - LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL FILTER EXHAUSTION, OR UNDERPAN SYSTEMS INCLUDING CLEANOUTS, PIPES, CONNECTIONS TO CONTROL STRUCTURES, AND POINTS OF DISCHARGE TO THE RECEIVING WATERS.
 - DIMENSIONS, ELEVATIONS, CONTOURS, OR CROSS-SECTIONS OF ALL STORMWATER TREATMENT POND STORAGE BASINS, INCLUDING ALL WEIRS, SLOTS, GATES, PIPES, SUMMERS, AND THE POND DEPTH.
 - DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES, OR CROSS-SECTIONS OF THE DRAINAGE SYSTEM IMPROVEMENTS TO DETERMINE FLOW DIRECTIONS AND CONVEYANCE OF RUNOFF TO THE TREATMENT SYSTEM.
 - DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES, OR CROSS-SECTIONS OF ALL CONVEYANCE SYSTEMS UTILIZED TO CONVEY OFF-SITE RUNOFF AROUND THE SYSTEM.
 - EXISTING WATER ELEVATION OF SURFACE WATERS AND THE DATE DETERMINED.
 - ELEVATION AND LOCATION OF BENCHMARK'S FOR THE SURVEY.
- ALL FACILITIES.

A. ELEVATIONS AT THE FOUR CORNERS OF ALL HANDICAP PARKING SPACES AND ADJACENT LOADING AISLES.

B. ELEVATIONS AND LOCATIONS FOR ALL ACCESSIBLE RAMPS WHICH ADEQUATELY REFLECT THE BUILT SLOPES.

C. ELEVATIONS AND LOCATIONS ALONG THE ENTIRE OR SUBSTANTIAL PORTION OF ALL ADA

- A. ELEVATIONS AT THE FOUR CORNERS OF ALL HANDICAP PARKING SPACES AND ADJACENT LOADING AISLES.
- B. ELEVATIONS AND LOCATIONS FOR ALL ACCESSIBLE RAMPS WHICH ADEQUATELY REFLECT THE BUILT SLOPES.
- C. ELEVATIONS AND LOCATIONS ALONG THE ENTIRE SET OF CORRIDORS FOR CORRIDOR WHEELCHAIR ALL ADA

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SHEET 2 OF

- SHEET 2 OF**

SHEET 3 OF 155



OVERALL EXISTING CONDITIONS PLAN	CONSTRUCTION SITE PLAN	CITY OF APOPKA, FLORIDA
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CIVIL ENGINEERING | LAND PLANNING

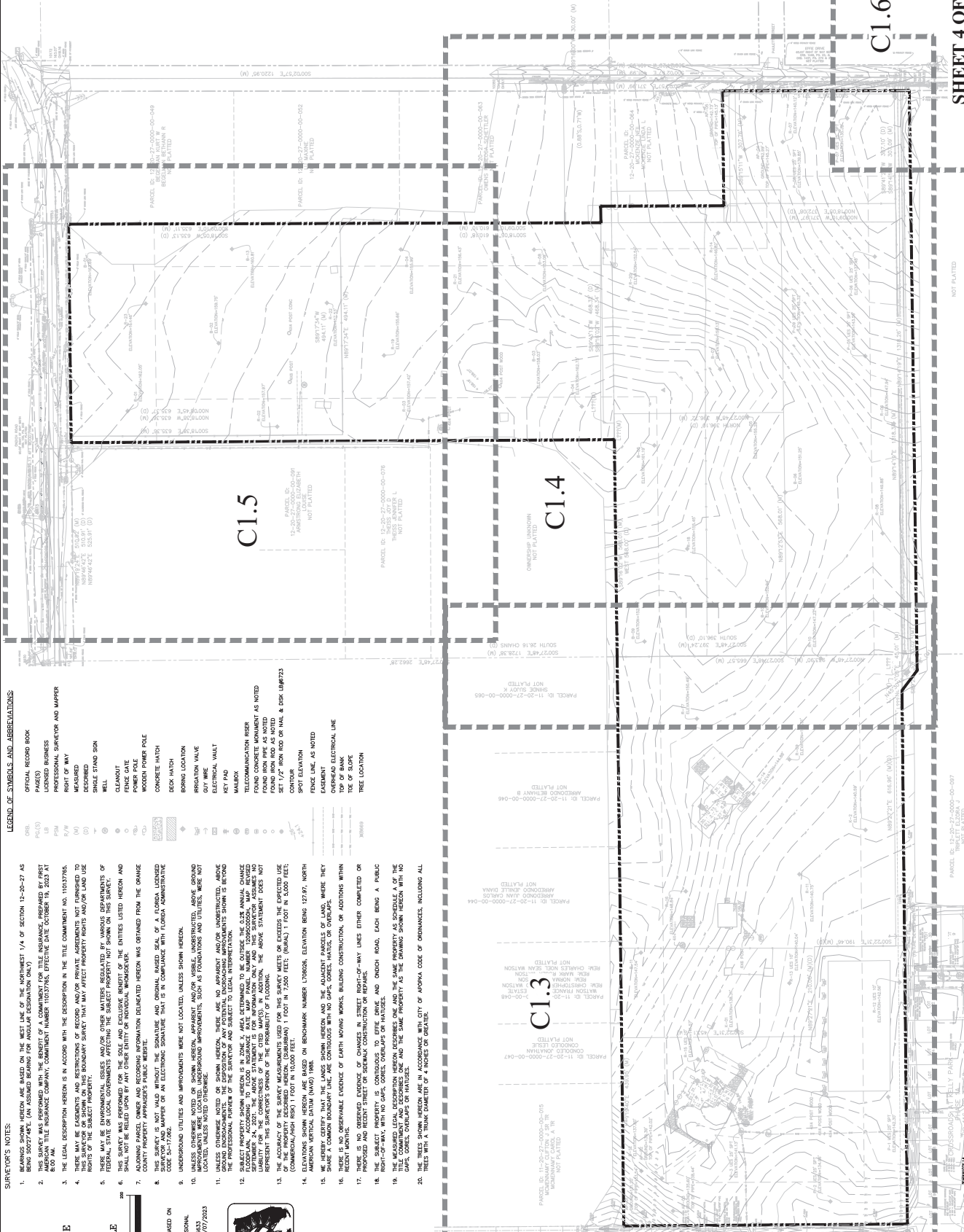
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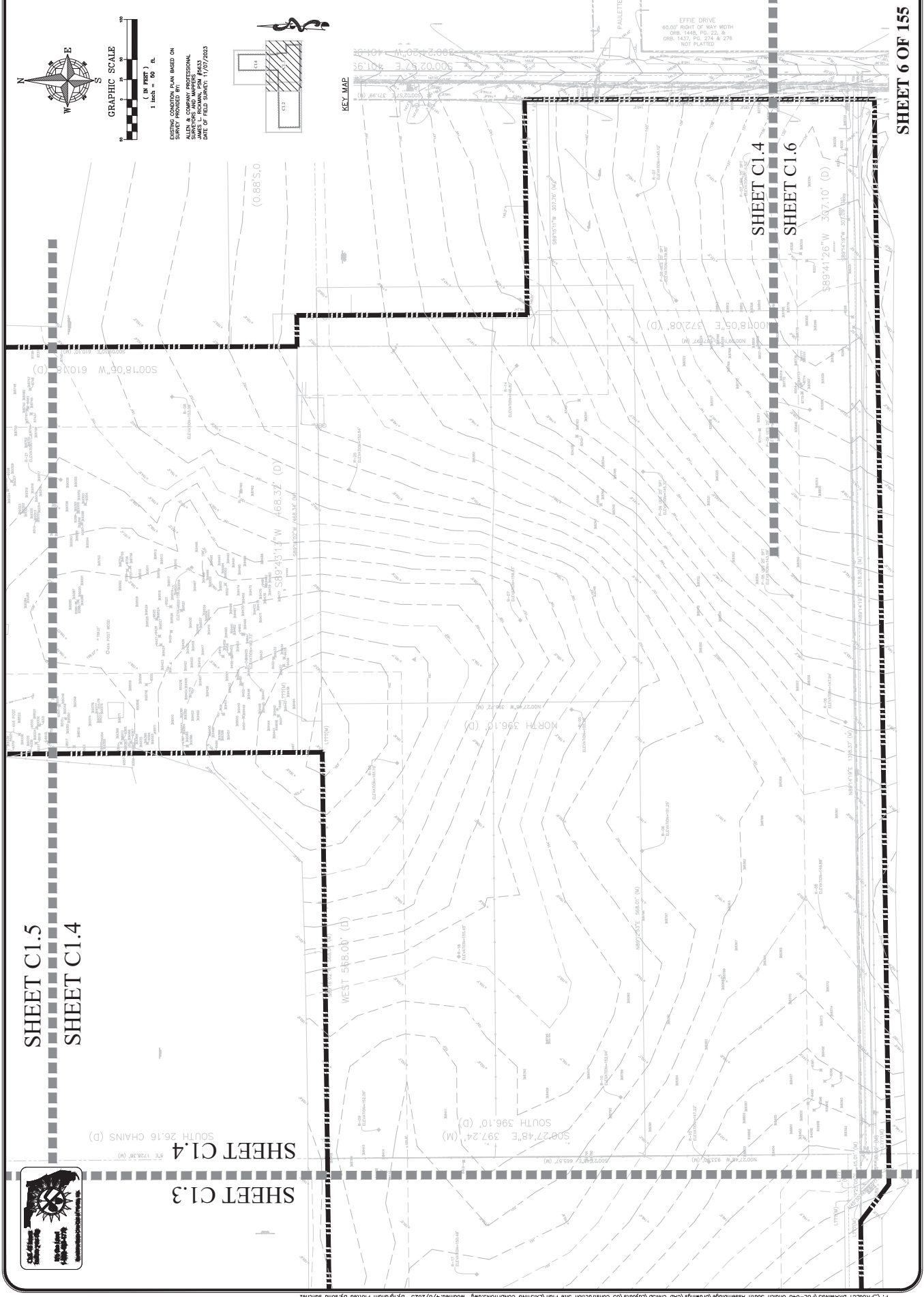
2221 E. 8th St., Suite 27, Weston, MA, 01890, 207.799-1234

DESIGN AND CONSTRUCTION SERVICES FOR AEC AND OTHER INDUSTRIES

AB	
SOS	

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APPLAN ENGINEERING LLC CIVIL ENGINEERING LAND PLANNING 3001 LAWYER ROAD, SUITE 200, APOPKA, FLORIDA 32703 APPLANFL.COM • 407.960.5868		EXISTING CONDITIONS - EAST CONSTRUCTION SITE PLAN CITY OF APOPKA, FLORIDA ONDICH SOUTH SUBDIVISION	
DATE:	4/2/2025	SCALE:	1" = 50'
SHEET:	C1.4	DESIGNED:	A. FRANOS
CHECKED:	L. CLAYSON	PROJECT:	S. SIERRA-OL

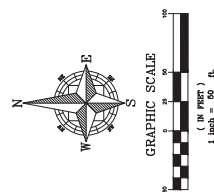




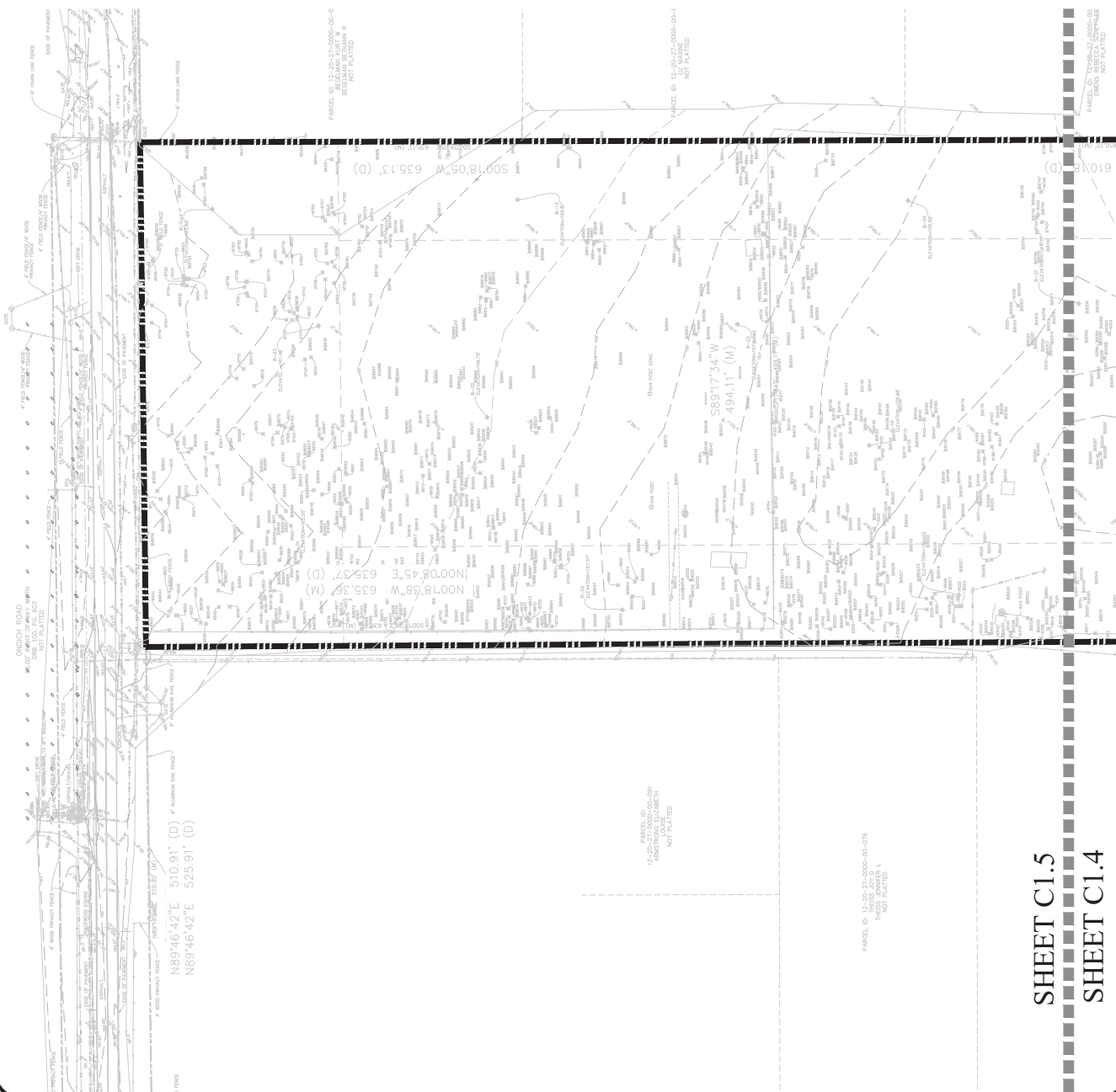
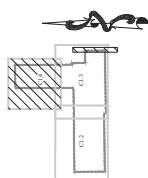
SCALE	" = 50'
PROJECT	PUL-048
SHEET	C1.5
DRAWN:	A. FRANCIS
DESIGNED:	S. SIERRA-GIL
CHECKED:	L. CLASSON
DATE:	4/2/2025

EXISTING CONDITIONS - NORTH
CONSTRUCTION SITE PLAN

APPIAN ENGINEERING LLC.
APPIANFL.COM • 407.960.5868
3221 LEE ROAD, SUITE 27, WESTON, FLORIDA 32793

[illegible]

EXISTING CONDITION PLAN BASED ON
SURVEY PROVIDED BY:
ALLEN & COMPANY PROFESSIONAL
SURVEYORS AND MAPPERS
JAMES L. RICKMAN, PSM #5633
DATE OF FIELD SURVEY: 11/07/2023





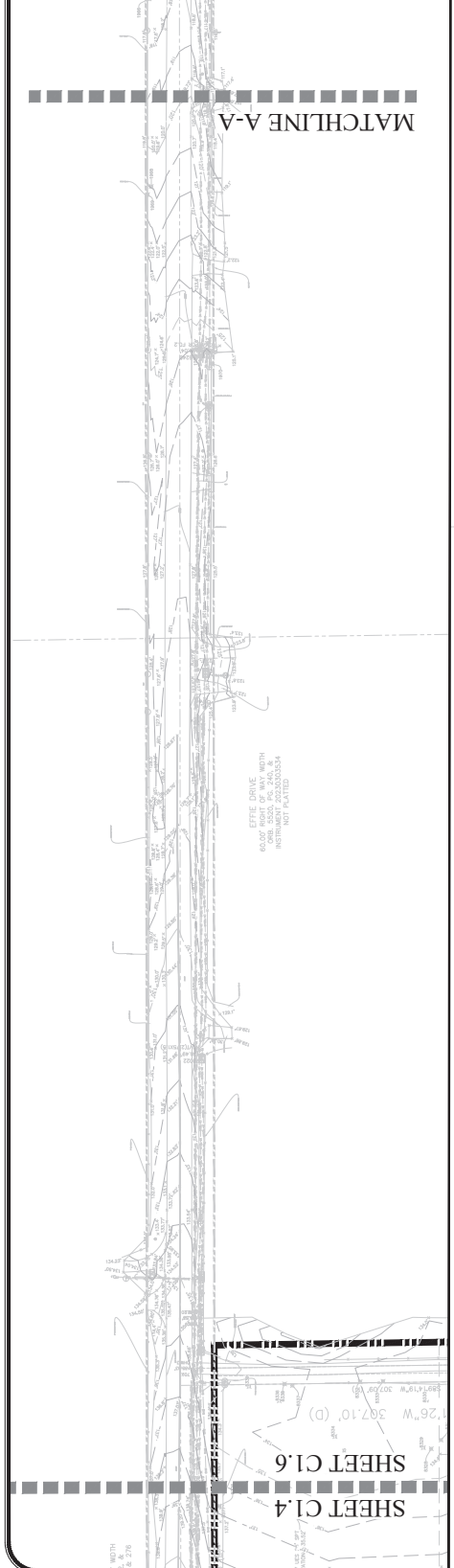
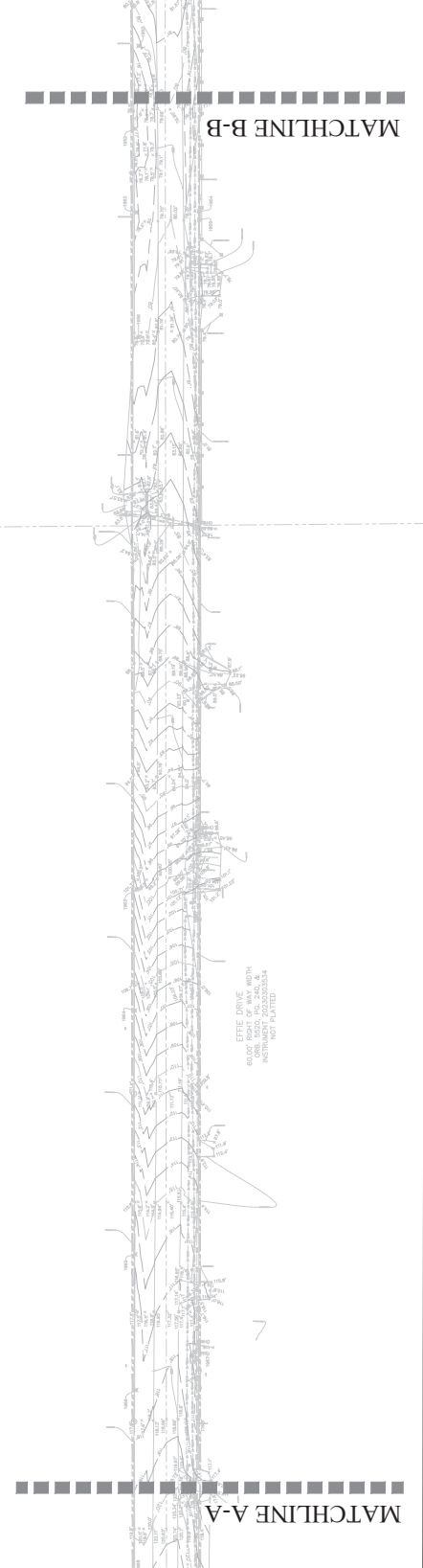
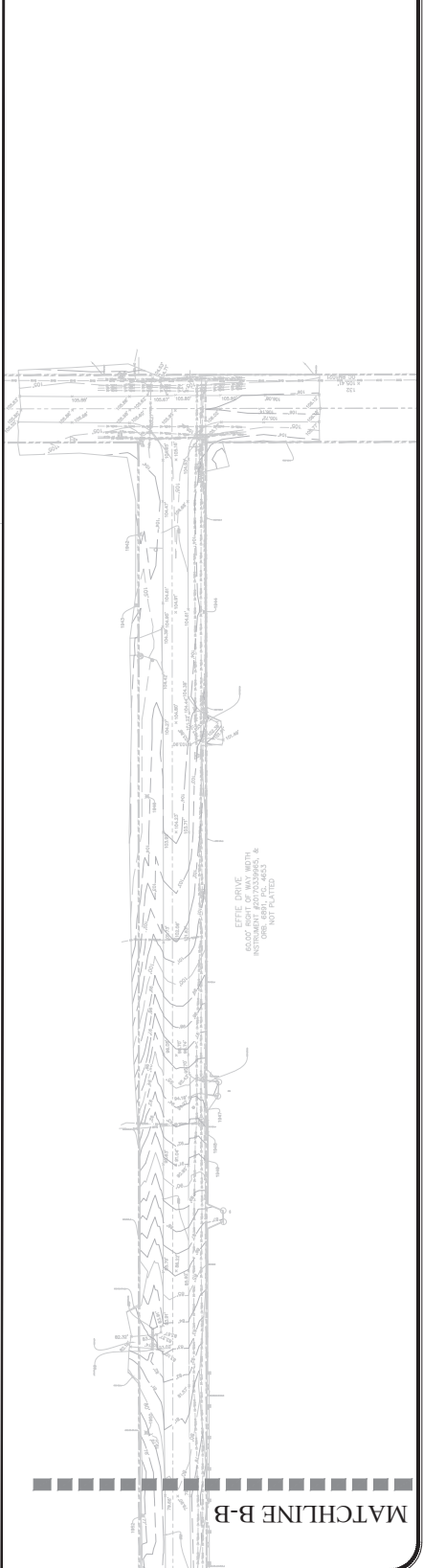
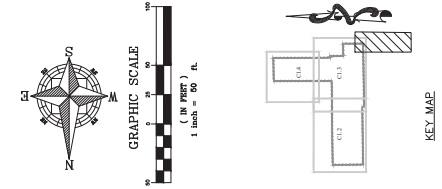
DATE:	4/2/2025
SHEET:	C1.6
CHECKED:	L. CLAYSON
PROJECT:	PUL-048
DESIGNED:	S. SIERRA-OL
DRAWN:	A. FRANCOIS
SCALE:	#####

EXISTING CONDITIONS - SOUTH
CONSTRUCTION SITE PLAN
ONDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

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2025 LAW BOOK, RULES 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

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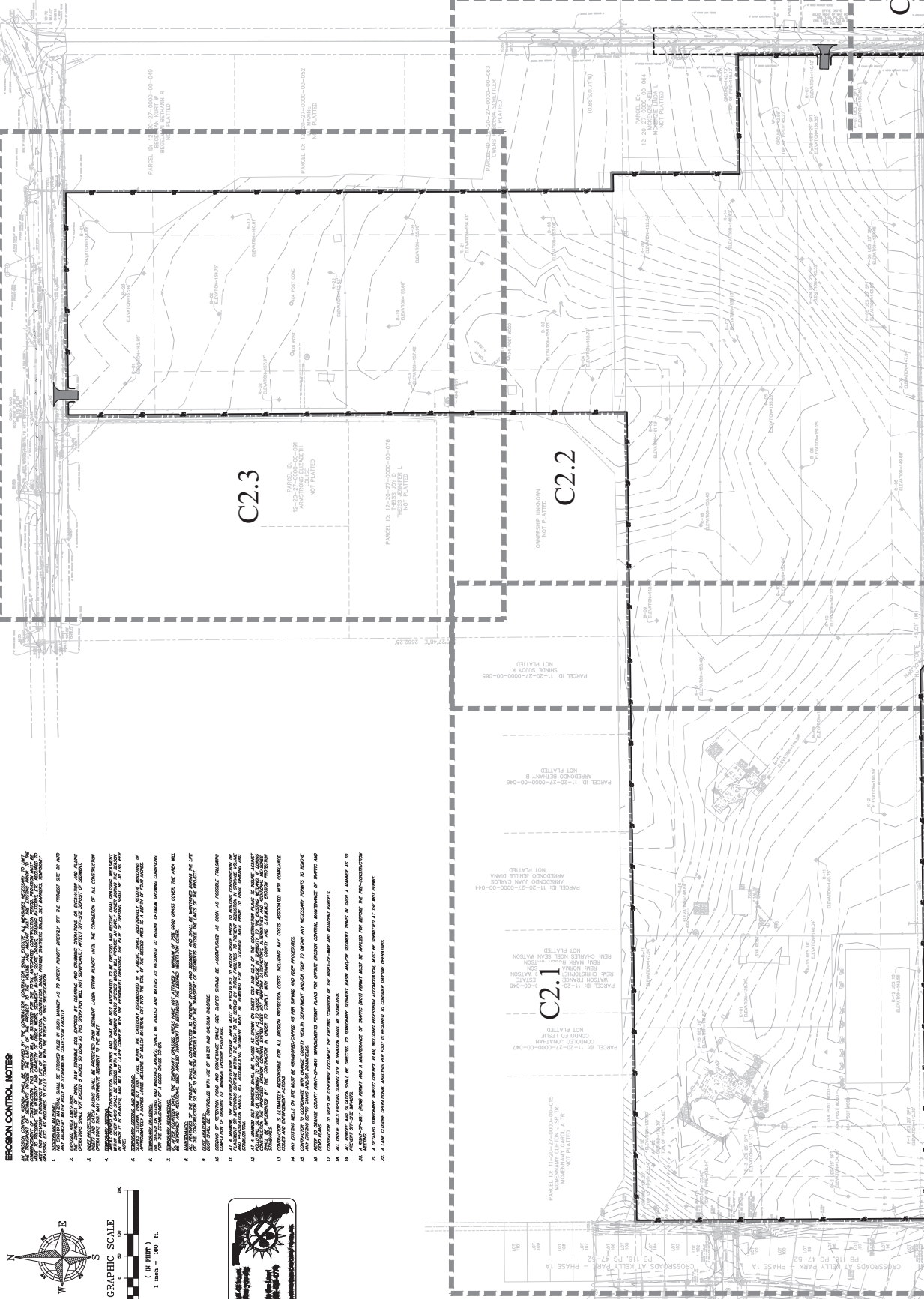
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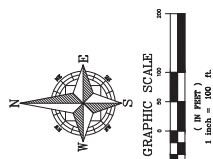
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EROSION CONTROL NOTES

1. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND SHALL BE REMOVED OR MODIFIED AS NECESSARY TO ACCOMMODATE THE PROGRESS OF CONSTRUCTION.
2. EROSION CONTROL MEASURES SHALL BE DESIGNED TO PREVENT EROSION AND SEDIMENTATION FROM THE CONSTRUCTION SITE. EROSION CONTROL MEASURES SHALL BE DESIGNED TO PREVENT EROSION AND SEDIMENTATION FROM THE CONSTRUCTION SITE.
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22. EROSION CONTROL MEASURES SHALL BE DESIGNED TO PREVENT EROSION AND SEDIMENTATION FROM THE CONSTRUCTION SITE. EROSION CONTROL MEASURES SHALL BE DESIGNED TO PREVENT EROSION AND SEDIMENTATION FROM THE CONSTRUCTION SITE.



DATE: 4/8/2025	SCALE: 1" = 100'	PROJECT: PUL-048	DESIGNED: S. SIERRA-OL	CHECKED: L. CLAYSON	SHEET: C2.0
APPLAN ENGINEERING, LLC					
CITY OF APPOPKA, FLORIDA					
OVERALL DEMO, EROSION & M.O.T. PLAN					
CONSTRUCTION SITE PLAN					
ONCH SOUTH SUBDIVISION					
APPLAN.COM • 407.960.5868					
3001 LAW BLVD. SUITE 200, WEST PALM BEACH, FLORIDA 33411					
REV. DATE: 02/27/2025					
DESCRIPTION: LANDSCAPE COMMENTS DATED 02/27/2025					
BY: 925					

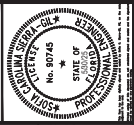


APPLAN ENGINEERING, LLC
3001 LAW BLVD. SUITE 200
WEST PALM BEACH, FLORIDA 33411
407.960.5868
APPLAN.COM



DATE: 4/8/2025
SCALE: 1" = 100'
PROJECT: PUL-048
DESIGNED: S. SIERRA-OL
CHECKED: L. CLAYSON
SHEET: C2.0

APPLAN ENGINEERING, LLC
CITY OF APPOPKA, FLORIDA
OVERALL DEMO, EROSION & M.O.T. PLAN
CONSTRUCTION SITE PLAN
ONCH SOUTH SUBDIVISION

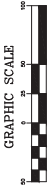
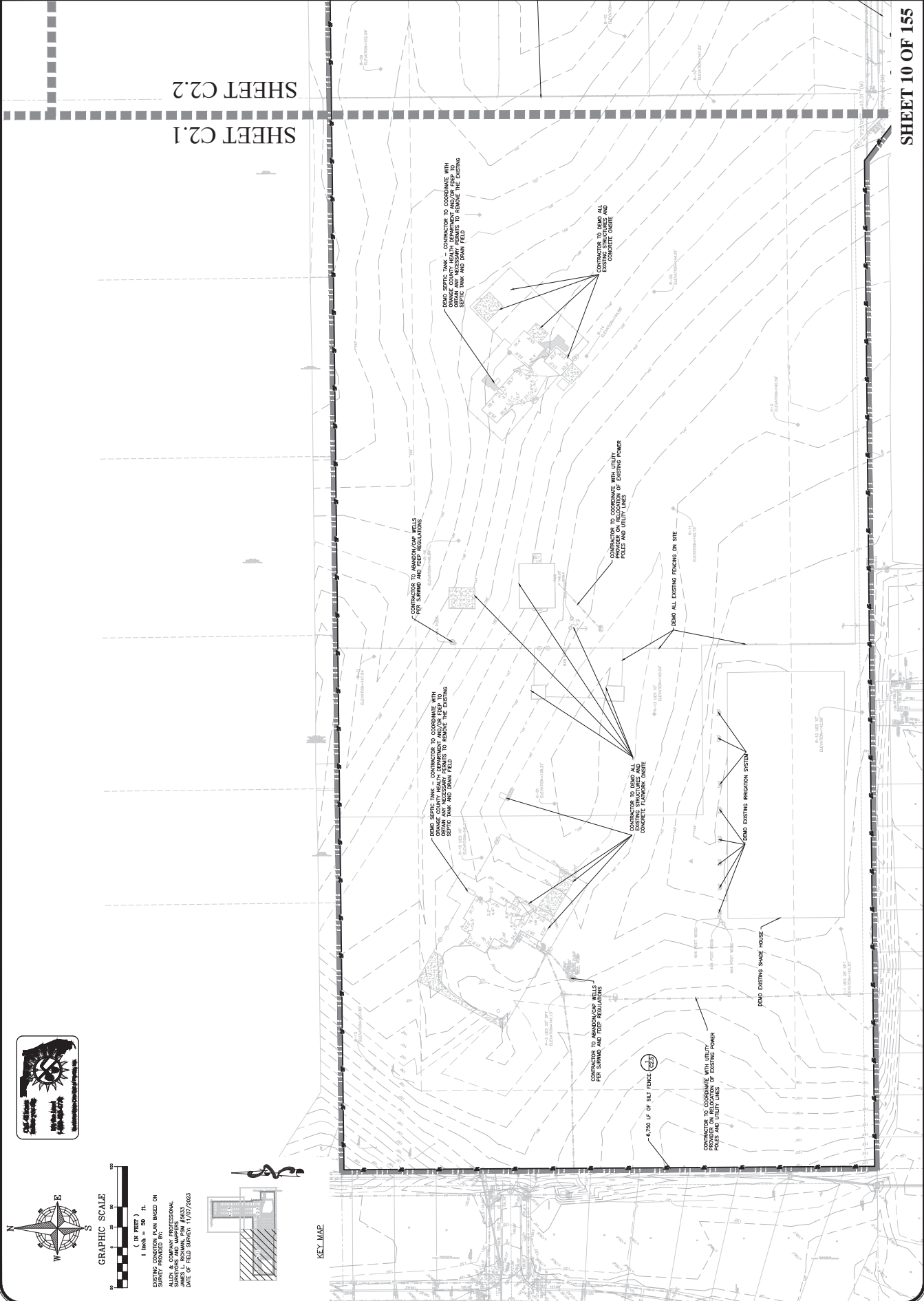


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SHEET:	C2.1
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DESIGNED:	S. SIERRA-OL
SCALE:	1" = 50'
DRAWN:	A. FRANCO

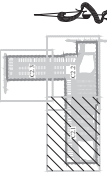
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CONSTRUCTION SITE PLAN
DEMO, EROSION & M.O.T. PLAN - WEST
CITY OF APOPKA, FLORIDA

APPLAN ENGINEERING, INC.
407.960.5868
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CIVIL ENGINEERING | LAND PLANNING

REV:	DATE:	DESCRIPTION:
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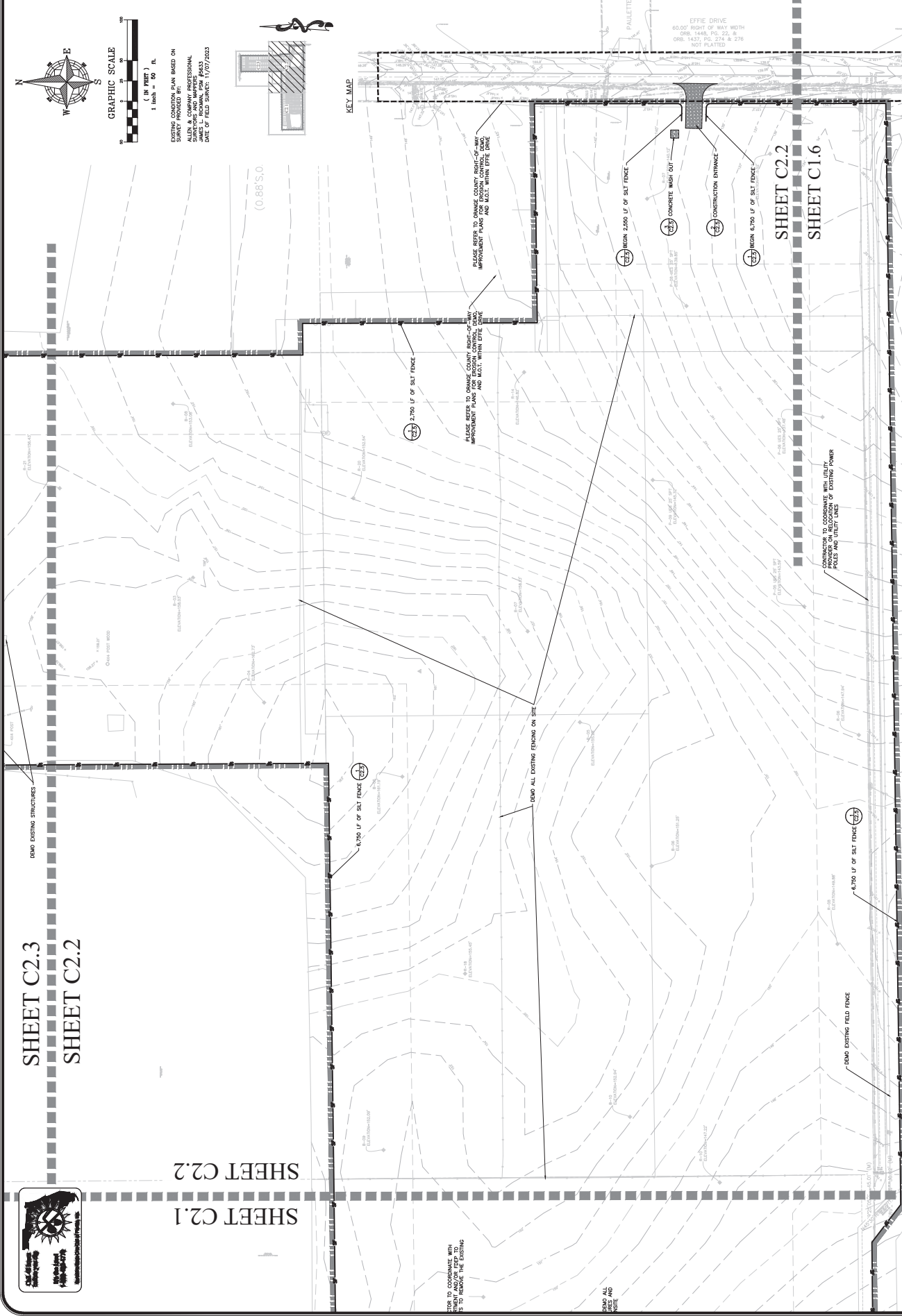
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SURVEY PROVIDED BY:
ALLEN & COMPANY PROFESSIONAL
JAMES L. ROCKMAN, FSW #4433
DATE OF FIELD SURVEY: 11/07/2023



KEY MAP

SCALE	1" = 50'
PROJECT	PUL-048
SHEET	
DATE:	4/8/2025
DRAWN:	A. FRANCIS
DESIGNED:	S. SIERRA-GIL
CHECKED:	L. CLASSON

APPIAN ENGINEERING LLC.
APPIANFL.COM • 407.960.5688
2021 Lee Road, Suite 27, Westborough, MA 01581

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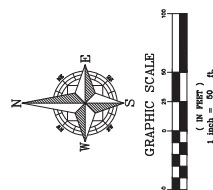
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DRAWN: A. FRANCIS	DATE: 4/8/2025
DESIGNED: S. SIERRA-GIL	CHECKED: L. CLASSON

CONSTRUCTION SITE PLAN	ONDICH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA
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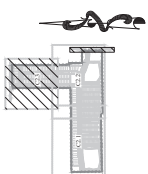
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N ENGINEERING LLC.

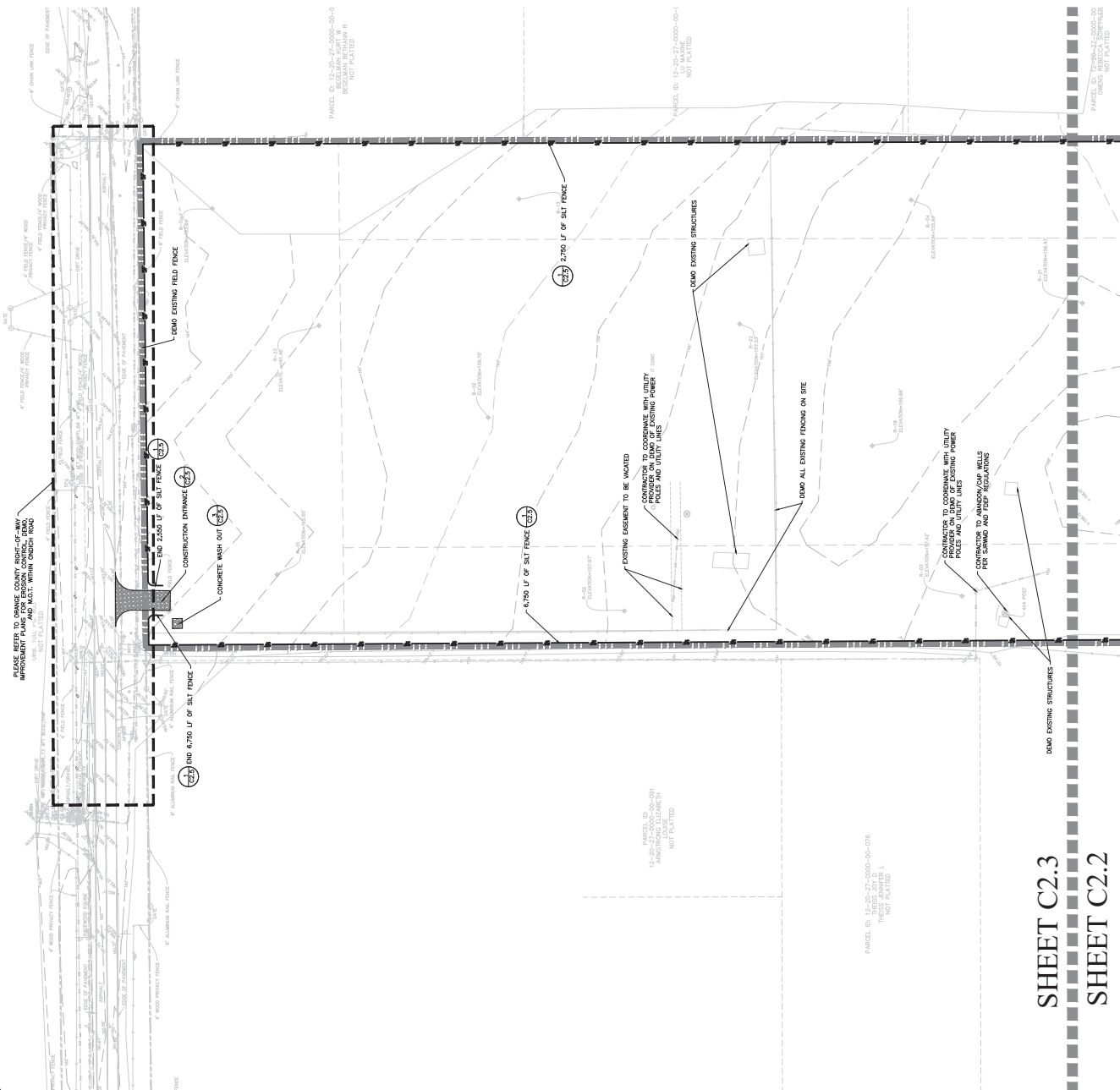
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EXISTING CONDITION PLAN BASED ON
SURVEY PROVIDED BY:
LLEN & COMPANY PROFESSIONAL
SURVEYORS AND MAPPERS
JAMES L. RICKMAN, PSM #5633
DATE OF FIELD SURVEY: 11/07/2023



KEY MAP



SHEET C2.3

SHEET C2.2



EROSION CONTROL & M.O.T. DETAILS	CONSTRUCTION SITE PLAN	ONDICH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA
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3 CONCRETE WASH OUT

2	TEMPORARY CONSTRUCTION ENTRANCE DETAIL	N.T.S.
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1 TYPE III SILT FENCE DETAIL
N.T.S.



DATE: 4/8/2025
SHEET: C2.6
CHECKED: PUL-048
PROJECT: S. SIERRA-OL
DESIGNED: N.T.S.
DRAWN: A. FRANCO

M.O.T. DETAILS
CONSTRUCTION SITE PLAN
CITY OF APOPKA, FLORIDA

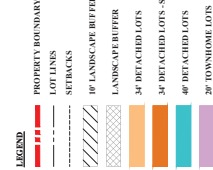
APPLIAN ENGINEERING, LLC
APPLIANE.COM • 407.960.5868
3031 LAW BLVD. SUITE 200 APOPKA, FLORIDA 32017

REV. DATE DESCRIPTION
02/04/25 CITY OF APOPKA COMMENTS DATED 04/29/2025

BY 925

CROSSROADS
AT KELLY PARK
(BY OTHERS)

TRACT DATA			AREA (AC)	AREA (SF)	OWNER
TRACT 1	TO RIGHT OF HWY DESIGNATION	TRACT 1	0.20 AC	8,786 SF	CITY
TRACT 2	TO RIGHT OF HWY DESIGNATION	TRACT 2	0.20 AC	8,786 SF	CITY
TRACT 3	TO RIGHT OF HWY DESIGNATION	TRACT 3	0.20 AC	8,786 SF	CITY
TRACT 4	PRIVATE ALLEY	TRACT 4	0.29 AC	12,292 SF	H.O.A.
TRACT 5	PRIVATE ALLEY	TRACT 5	0.38 AC	16,610 SF	H.O.A.
TRACT 6	PRIVATE ALLEY	TRACT 6	0.38 AC	16,610 SF	H.O.A.
TRACT 7	PRIVATE ALLEY	TRACT 7	0.31 AC	13,662 SF	H.O.A.
TRACT 8	PRIVATE ALLEY	TRACT 8	0.27 AC	11,215 SF	H.O.A.
TRACT 9	PRIVATE ALLEY	TRACT 9	0.26 AC	11,180 SF	H.O.A.
TRACT 10	PRIVATE ALLEY	TRACT 10	0.15 AC	6,620 SF	H.O.A.
TRACT 11	PRIVATE ALLEY	TRACT 11	0.25 AC	10,764 SF	H.O.A.
TRACT 12	PRIVATE ALLEY	TRACT 12	0.78 AC	34,182 SF	H.O.A.
TRACT 13	PRIVATE ALLEY	TRACT 13	0.78 AC	34,182 SF	H.O.A.
TRACT 14	PRIVATE ALLEY	TRACT 14	0.40 AC	17,418 SF	H.O.A.
TRACT 15	LANDSCAPE ISLAND	TRACT 15	0.04 AC	1,918 SF	H.O.A.
TRACT 16	LANDSCAPE ISLAND	TRACT 16	0.04 AC	1,918 SF	H.O.A.
TRACT 17	TO RIGHT OF HWY DESIGNATION	TRACT 17	0.51 AC	22,136 SF	CITY
TRACT 18	TO RIGHT OF HWY DESIGNATION	TRACT 18	0.51 AC	22,136 SF	CITY
TRACT 19	TO RIGHT OF HWY DESIGNATION	TRACT 19	0.55 AC	23,984 SF	CITY
TRACT 20	TO RIGHT OF HWY DESIGNATION	TRACT 20	0.36 AC	15,475 SF	CITY
TRACT 21	TO RIGHT OF HWY DESIGNATION	TRACT 21	0.49 AC	21,251 SF	H.O.A.
TRACT 22	TO RIGHT OF HWY DESIGNATION	TRACT 22	0.37 AC	16,275 SF	H.O.A.
TRACT 23	TO RIGHT OF HWY DESIGNATION	TRACT 23	0.07 AC	3,211 SF	H.O.A.
TRACT 24	TO RIGHT OF HWY DESIGNATION	TRACT 24	0.09 AC	4,479 SF	H.O.A.
TRACT 25	TO RIGHT OF HWY DESIGNATION	TRACT 25	0.10 AC	4,308 SF	H.O.A.
TRACT 26	TO RIGHT OF HWY DESIGNATION	TRACT 26	0.10 AC	4,308 SF	H.O.A.
TRACT 27	TO RIGHT OF HWY DESIGNATION	TRACT 27	0.02 AC	770 SF	H.O.A.
TRACT 28	TO RIGHT OF HWY DESIGNATION	TRACT 28	0.07 AC	2,873 SF	H.O.A.
TRACT 29	TO RIGHT OF HWY DESIGNATION	TRACT 29	0.29 AC	12,601 SF	H.O.A.
TRACT 30	TO RIGHT OF HWY DESIGNATION	TRACT 30	0.29 AC	12,601 SF	H.O.A.
TRACT 31	TO RIGHT OF HWY DESIGNATION	TRACT 31	0.35 AC	15,147 SF	H.O.A.
TRACT 32	TO RIGHT OF HWY DESIGNATION	TRACT 32	0.07 AC	3,098 SF	H.O.A.
TRACT 33	TO RIGHT OF HWY DESIGNATION	TRACT 33	0.07 AC	3,098 SF	H.O.A.
TRACT 34	TO RIGHT OF HWY DESIGNATION	TRACT 34	0.07 AC	3,098 SF	H.O.A.
TRACT 35	TO RIGHT OF HWY DESIGNATION	TRACT 35	0.07 AC	3,098 SF	H.O.A.
TRACT 36	TO RIGHT OF HWY DESIGNATION	TRACT 36	0.74 AC	32,058 SF	H.O.A.
TRACT 37	TO RIGHT OF HWY DESIGNATION	TRACT 37	0.04 AC	1,789 SF	CITY
TRACT 38	TO RIGHT OF HWY DESIGNATION	TRACT 38	0.04 AC	1,789 SF	CITY
TRACT 39	TO RIGHT OF HWY DESIGNATION	TRACT 39	0.04 AC	1,789 SF	CITY
TRACT 40	TO RIGHT OF HWY DESIGNATION	TRACT 40	0.04 AC	1,789 SF	CITY
TRACT 41	TO RIGHT OF HWY DESIGNATION	TRACT 41	0.04 AC	1,789 SF	CITY
TRACT 42	TO RIGHT OF HWY DESIGNATION	TRACT 42	0.04 AC	1,789 SF	CITY
TRACT 43	TO RIGHT OF HWY DESIGNATION	TRACT 43	0.04 AC	1,789 SF	CITY
TRACT 44	TO RIGHT OF HWY DESIGNATION	TRACT 44	0.04 AC	1,789 SF	CITY
TRACT 45	TO RIGHT OF HWY DESIGNATION	TRACT 45	0.04 AC	1,789 SF	CITY
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TRACT 196	TO RIGHT OF HWY DESIGNATION	TRACT 196	0.04 AC	1,789 SF	CITY
TRACT 197	TO RIGHT OF HWY DESIGNATION	TRACT 197	0.04 AC	1,789 SF	CITY
TRACT 198	TO RIGHT OF HWY DESIGNATION	TRACT 198	0.04 AC	1,789 SF	CITY
TRACT 199	TO RIGHT OF HWY DESIGNATION	TRACT 199	0.04 AC	1,789 SF	CITY
TRACT 200	TO RIGHT OF HWY DESIGNATION				



CONDICH SOUTH SUBDIVISION MASTER PLAN DEVELOPMENT STANDARDS

A. Design Standards (1)

Description	3d, 4d* Family, Divorced 3d, 4d* Family, Divorced	Single-Family, Divorced 3d, 4d* Family, Divorced	Single-Family, Attracted 20+ Transhomies (Rear-loaded)
Front Yard Setback (1)	10' min.	10' min.	10' min.
Front Yard Setback (2)	15'	15'	15'
Front Yard Setback (3)	20'	20'	20'
Front Yard Setback (4)	25'	25'	25'
Front Yard Setback (5)	30'	30'	30'
Front Yard Setback (6)	35'	35'	35'
Front Yard Setback (7)	40'	40'	40'
Front Yard Setback (8)	45'	45'	45'
Front Yard Setback (9)	50'	50'	50'
Front Yard Setback (10)	55'	55'	55'
Front Yard Setback (11)	60'	60'	60'
Front Yard Setback (12)	65'	65'	65'
Front Yard Setback (13)	70'	70'	70'
Front Yard Setback (14)	75'	75'	75'
Front Yard Setback (15)	80'	80'	80'
Front Yard Setback (16)	85'	85'	85'
Front Yard Setback (17)	90'	90'	90'
Front Yard Setback (18)	95'	95'	95'
Front Yard Setback (19)	100'	100'	100'
Front Yard Setback (20)	105'	105'	105'
Front Yard Setback (21)	110'	110'	110'
Front Yard Setback (22)	115'	115'	115'
Front Yard Setback (23)	120'	120'	120'
Front Yard Setback (24)	125'	125'	125'
Front Yard Setback (25)	130'	130'	130'
Front Yard Setback (26)	135'	135'	135'
Front Yard Setback (27)	140'	140'	140'
Front Yard Setback (28)	145'	145'	145'
Front Yard Setback (29)	150'	150'	150'
Front Yard Setback (30)	155'	155'	155'
Front Yard Setback (31)	160'	160'	160'
Front Yard Setback (32)	165'	165'	165'
Front Yard Setback (33)	170'	170'	170'
Front Yard Setback (34)	175'	175'	175'
Front Yard Setback (35)	180'	180'	180'
Front Yard Setback (36)	185'	185'	185'
Front Yard Setback (37)	190'	190'	190'
Front Yard Setback (38)	195'	195'	195'
Front Yard Setback (39)	200'	200'	200'
Front Yard Setback (40)	205'	205'	205'
Front Yard Setback (41)	210'	210'	210'
Front Yard Setback (42)	215'	215'	215'
Front Yard Setback (43)	220'	220'	220'
Front Yard Setback (44)	225'	225'	225'
Front Yard Setback (45)	230'	230'	230'
Front Yard Setback (46)	235'	235'	235'
Front Yard Setback (47)	240'	240'	240'
Front Yard Setback (48)	245'	245'	245'
Front Yard Setback (49)	250'	250'	250'
Front Yard Setback (50)	255'	255'	255'
Front Yard Setback (51)	260'	260'	260'
Front Yard Setback (52)	265'	265'	265'
Front Yard Setback (53)	270'	270'	270'
Front Yard Setback (54)	275'	275'	275'
Front Yard Setback (55)	280'	280'	280'
Front Yard Setback (56)	285'	285'	285'
Front Yard Setback (57)	290'	290'	290'
Front Yard Setback (58)	295'	295'	295'
Front Yard Setback (59)	300'	300'	300'
Front Yard Setback (60)	305'	305'	305'
Front Yard Setback (61)	310'	310'	310'
Front Yard Setback (62)	315'	315'	315'
Front Yard Setback (63)	320'	320'	320'
Front Yard Setback (64)	325'	325'	325'
Front Yard Setback (65)	330'	330'	330'
Front Yard Setback (66)	335'	335'	335'
Front Yard Setback (67)	340'	340'	340'
Front Yard Setback (68)	345'	345'	345'
Front Yard Setback (69)	350'	350'	350'
Front Yard Setback (70)	355'	355'	355'
Front Yard Setback (71)	360'	360'	360'
Front Yard Setback (72)	365'	365'	365'
Front Yard Setback (73)	370'	370'	370'
Front Yard Setback (74)	375'	375'	375'
Front Yard Setback (75)	380'	380'	380'
Front Yard Setback (76)	385'	385'	385'
Front Yard Setback (77)	390'	390'	390'
Front Yard Setback (78)	395'	395'	395'
Front Yard Setback (79)	400'	400'	400'
Front Yard Setback (80)	405'	405'	405'
Front Yard Setback (81)	410'	410'	410'
Front Yard Setback (82)	415'	415'	415'
Front Yard Setback (83)	420'	420'	420'
Front Yard Setback (84)	425'	425'	425'
Front Yard Setback (85)	430'	430'	430'
Front Yard Setback (86)	435'	435'	435'

- (1) Set Master Plan for depiction of conceptual typical site details.
- (2) Frost porch requirements and setbacks as allowed per Kelly Park Interchange Form Based Code Section 7.1 and K-2(g)(v) and within Sections B9.a, B9.b, C9.a, and C9.b of these Development Standards.
- (3) Rear garages are allowed per Kelly Park Interchange Form-Based Code Section K-2(g)(iv).

B. Architectural, Buildings, and Accessory Structures for Detached Units

- Architectural design shall meet the intent of City of Annapolis Kelly Park Interchange Form-Based Code as follows:
- Each residential unit shall be a minimum of one (1) bedroom.
 - Each residential unit shall have a minimum of two (2) bathrooms.
 - All rent-billed lots shall have a minimum of one (1) parking space.
 - Mail delivery for all lots within Odell South shall occur at cluster mailboxes units. Approval from the Postmaster of the local location shall be submitted prior to approval of the Construction Sign Plan.
 - AC condenser units and similar equipment shall be placed in the side yard area. AC condenser units and similar equipment must be placed with a minimum setback of three (3) feet from the side property line and a minimum setback of five (5) feet from the rear property line.
 - Storage units and similar equipment shall be screened from side yards with screening, opaque or opaque fencing.
 - Storage sheds or similar storage facilities shall not be allowed.

a) Architectural styles shall be determined prior to Construction Site Plan.

- meet the intent of the City of Apopka's Kelly Park Interchange Form-Based Code except as noted on these Development Standards. Modification or replacement of the exterior elevations can be

F. Buffers and Landscaping

- [illegible]

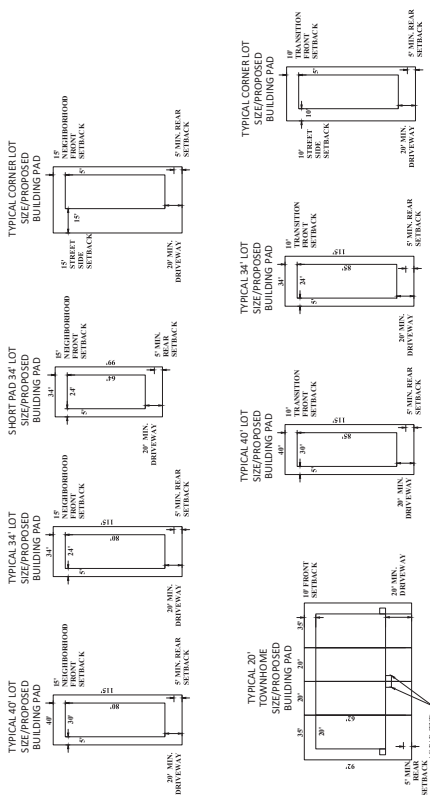
5. Maintenance and Plat

- Ordick South Homeowners'. Association shall maintain common areas including all fences/walls and landscaping within said common areas.

L. Wetlands and Environmental

- There are no wetland areas within the site. According to the FEMA Flood Insurance Rate Map for Orange County, FL, Panel No. 12995C0050H, dated September 24, 2021, the entire site of the proposed development is located within Unshaded Zone "X" (areas determined to be outside the 500-year floodplain). An erosion control plan will be submitted with the Construction Site Plan.

NEIGHBORHOOD DETAILS



TRANSITION DETAILS

- [illegible]

3. Architectural, Buildings, and Accessory Structures for Attached Units (Townhomes)

1. Architectural design shall meet the intent of City of Apopka Kelly Park Interchange Form-Base Code unless otherwise stated.
2. Each individual townhome shall have a minimum of two (2) bedrooms.
3. All rear-loaded lots shall have a minimum of one (1) car garage.

4. Development Condition Continuity

- The KPI-MU Development Standards shall be printed within the KPI-MU Master Plan and the Construction Site Plan.

S.1.

- Signage shall comply with the City of Apopka Kelly Park Interchange Form-Base Code.

K. Lighting

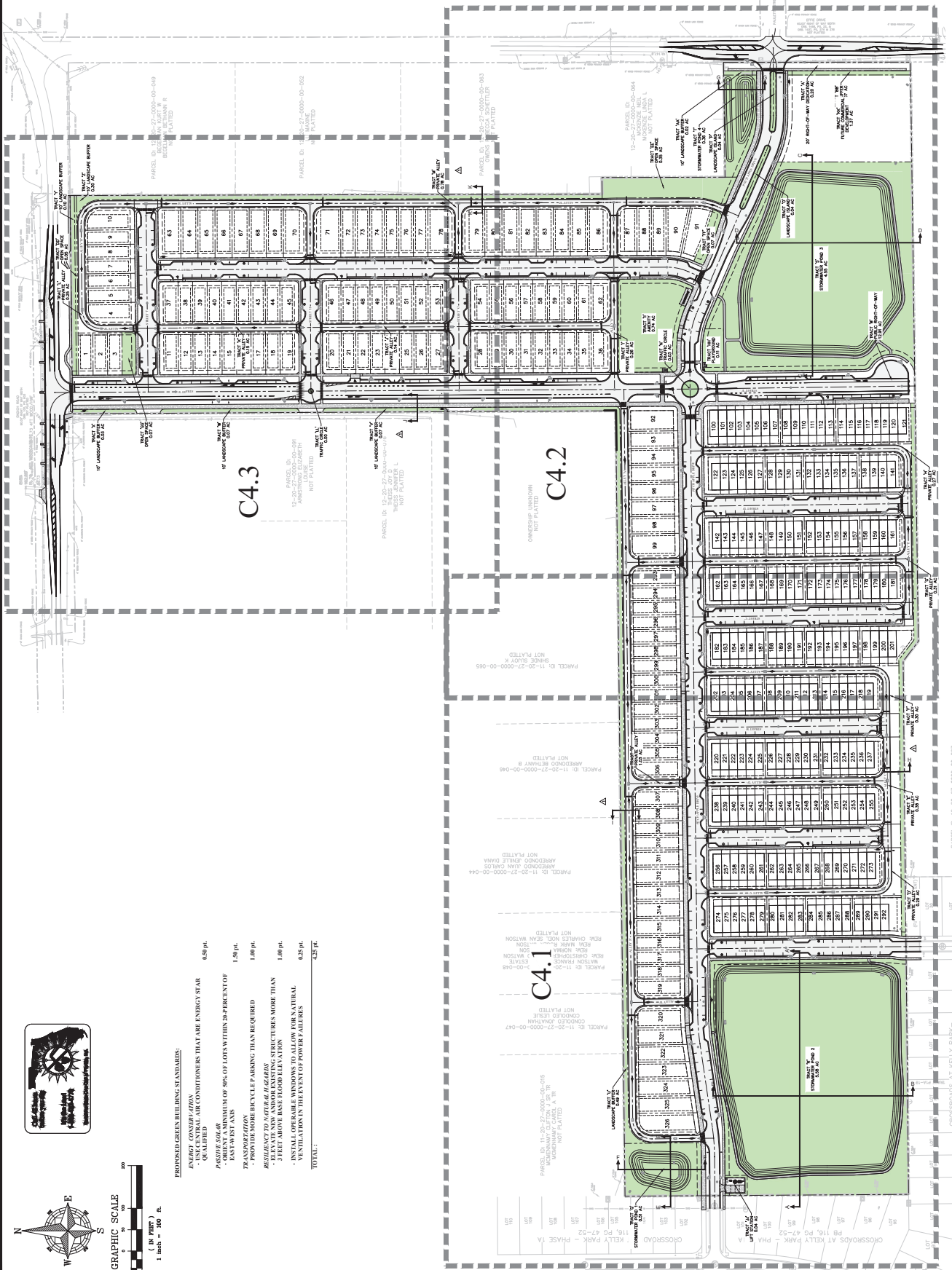
- Lighting shall comply with the City of Apsaka's Kelly Park Interchange Form-Base Code Section P.4(e). Street and parking area or pedestrian path light poles shall be decorative type. Details will be provided with the Construction Site Plan.

L. Garbage Pickup

- Garbage of rear-loaded single-family units shall be picked up at the adjacent Street Type F (Aley) along the rear of the lots.

M. Miscellaneous

- Any existing septic tanks or wells shall be properly abandoned prior to earthwork or construction. Permits shall be applied for and issued by the appropriate agencies. All acreages are subject to change with Construction Site Plan and Preliminary Plat review and approval.
- Outdoor storage areas (boats, trailers, recreational vehicles, etc.) are not provided within the development and are prohibited through the H.O.A. documents.
- All residents and visitors shall be responsible for maintaining the privacy of the community. All residents and visitors shall have uniform address numbers on the front and rear facades of the residence.



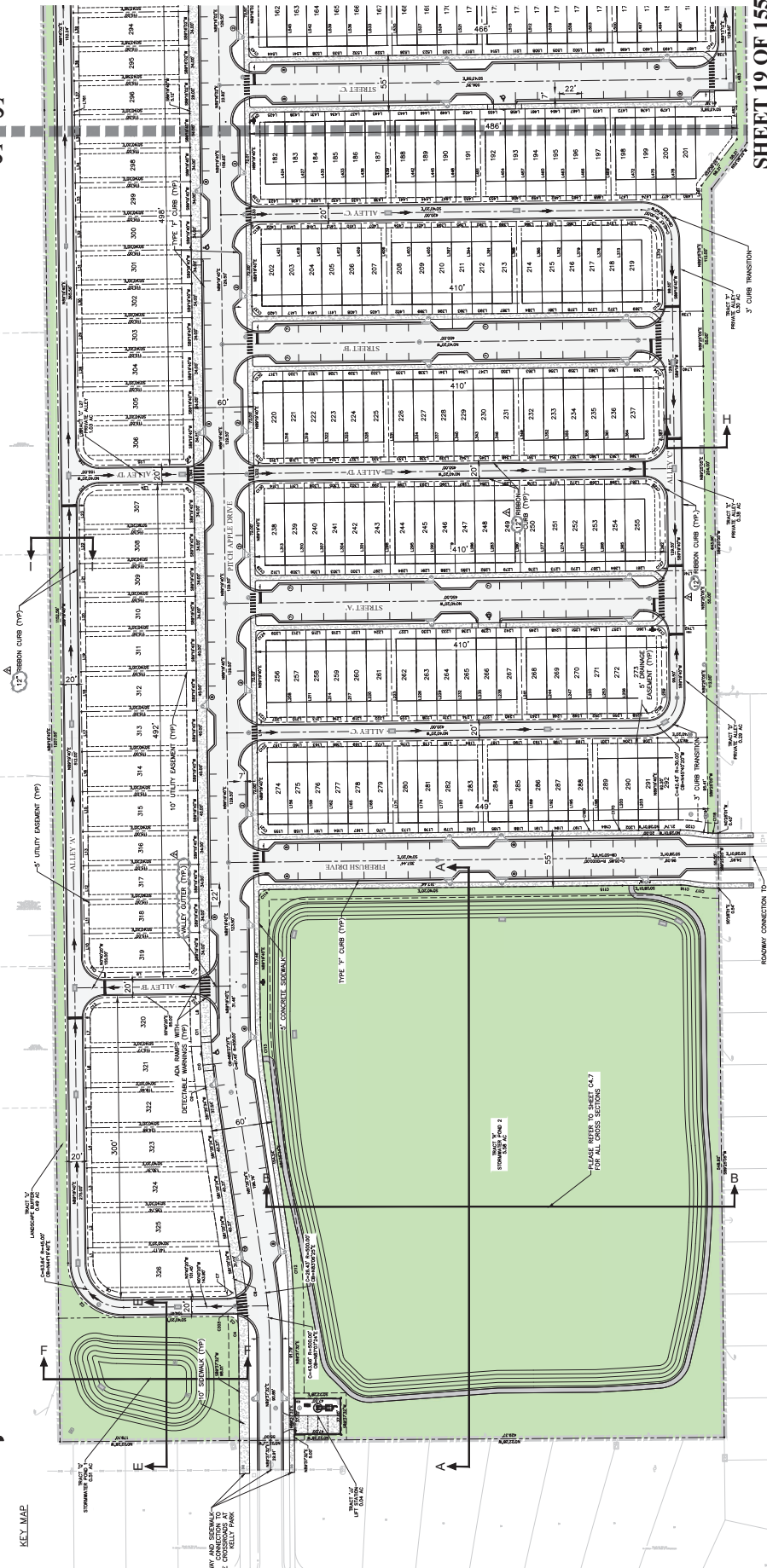


DATE:	5/30/2025
SHEET:	C4.1
CHECKED:	PUL-048
DESIGNED:	S. SERA-OIL
DRAWN:	A. FRANOS
SCALE:	1" = 50'

GEOMETRY PLAN - WEST
CONSTRUCTION SITE PLAN
CITY OF APOPKA, FLORIDA

APPLAN ENGINEERING LLC
CITY ENGINEERING & LAND PLANNING
APPLAN.COM • 407.960.5883
3031 L.A. ROAD, SUITE 200, APOPKA, FLORIDA 32703

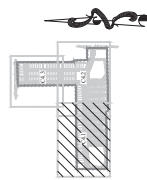
REV	DATE	DESCRIPTION
1	05/27/25	ISSUED COMMENTS DATED 05/27/25
2	05/29/25	ISSUED COMMENTS DATED 05/29/25



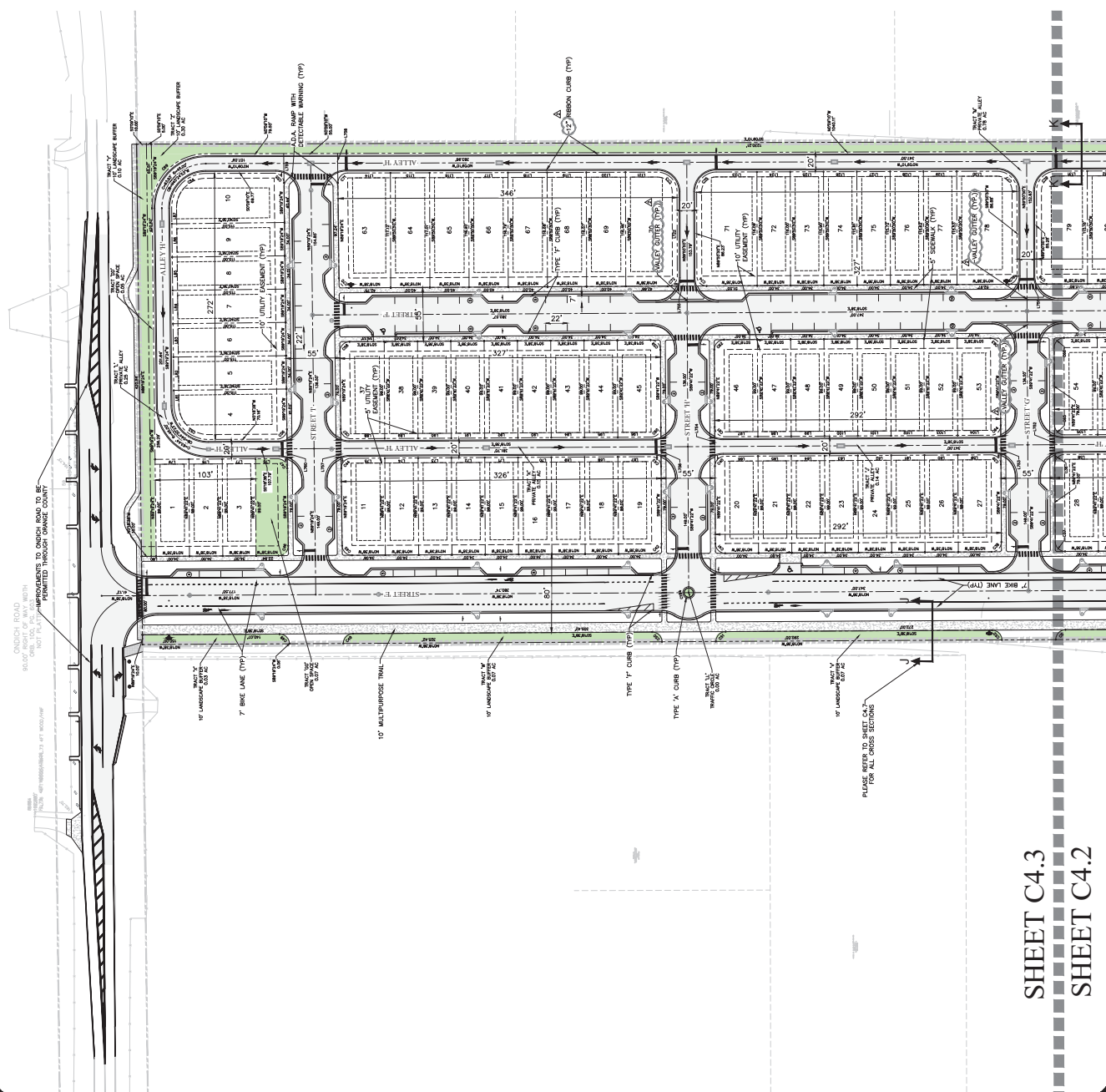
SHEET C4.1
SHEET C4.2



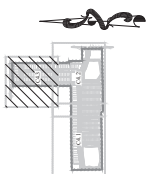
GRAPHIC SCALE
1 inch = 50 ft.



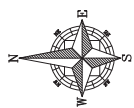




KEY MAP



GRAPHIC SCALE

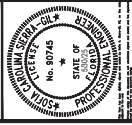


SCALE	" = 50'	PROJECT	PUL-048	SHEET	C4.3
DRAWN:	A. FRANCIS	DESIGNED:	S. SIERRA-GIL	CHECKED:	L. CLASSON
DATE:			5/30/2025		

GEOMETRY PLAN - NORTH
CONSTRUCTION SITE PLAN
ONDC SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

APPIAN ENGINEERING LLC.
APPIANFL.COM • 407.960.5868
2221 LAM BOULEVARD, SUITE 27, WESTVIEW PLAZA, PLYMOUTH, MI 48179

[illegible]



SCALE	N.T.S.
DRAWN	A. FRANCO
DESIGNED	S. SIERRA-OL
CHECKED	L. CLASSON
SHEET	PUL-048
DATE	4/18/2025

CURVE AND LINE TABLES
CONSTRUCTION SITE PLAN
CITY OF APOPKA, FLORIDA

APPLAN ENGINEERING, LLC
CIVIL ENGINEERING & LAND PLANNING
407.960.5868
1201 LAWRENCE STREET, SUITE 200, APOPKA, FL 32017

NO. DATE	05/04/25	CITY OF APOPKA COMMENTS DATED 04/29/2025
REV		1.0
DATE		
DESCRIPTION		
BY		
505		

Curve #	Chord Length	Chord Direction	Radius
C1	11.86'	S44°28'42"W	10.00'
C2	77.78'	S44°19'40"W	50.00'
C3	13.63'	S43°27'43"W	10.00'
C4	16.61'	S86°36'39"W	489.00'
C5	14.14'	S45°16'38"E	10.00'
C6	49.50'	N44°19'40"E	35.00'
C7	14.95'	N49°02'32"W	10.00'
C8	8.15'	S82°05'25"W	469.00'
C9	2.92'	S81°44'43"W	530.00'
C10	40.17'	S84°34'10"W	530.00'
C11	28.55'	S87°47'04"W	530.00'
C12	14.14'	N44°19'40"W	10.00'
C13	28.28'	S45°40'20"E	20.00'
C14	28.28'	N44°19'40"E	20.00'
C15	14.14'	N45°40'20"W	10.00'
C16	14.14'	S45°16'38"E	10.00'
C17	28.28'	S45°40'20"E	20.00'
C18	28.28'	N44°19'40"E	20.00'
C19	14.14'	N45°40'20"W	10.00'
C20	14.14'	S44°28'42"W	10.00'
C21	28.28'	S45°16'38"E	10.00'
C22	28.28'	N44°19'40"E	20.00'
C23	14.14'	N45°16'38"E	10.00'
C24	14.95'	S43°27'43"W	10.00'
C25	14.14'	S45°16'38"E	10.00'
C26	37.33'	N90°00'00"E	18.67'
C27	37.33'	N90°00'00"E	18.67'
C28	14.95'	N45°16'38"E	10.00'
C29	104.02'	N78°43'30"W	250.00'
C30	14.14'	S86°16'58"W	10.00'
C31	38.84'	S17°29'10"W	95.00'
C32	14.14'	S45°16'38"E	10.00'
C33	14.14'	N44°19'40"E	10.00'
C34	14.14'	N45°16'38"E	10.00'
C35	28.28'	S44°19'40"E	20.00'
C36	14.14'	S45°16'38"E	10.00'
C37	14.14'	N44°19'40"E	10.00'
C38	14.14'	N45°16'38"E	10.00'

Curve #	Chord Length	Chord Direction	Radius
C39	14.14'	S44°19'40"E	10.00'
C40	14.14'	S45°16'38"E	10.00'
C41	14.14'	N44°19'40"E	10.00'
C42	14.14'	N45°16'38"E	10.00'
C43	14.14'	S44°19'40"E	10.00'
C44	14.14'	S45°16'38"E	10.00'
C45	14.14'	N44°19'40"E	10.00'
C46	14.14'	N45°16'38"E	10.00'
C47	14.14'	S44°19'40"E	10.00'
C48	14.14'	S45°16'38"E	10.00'
C49	14.14'	N44°19'40"E	10.00'
C50	14.14'	N45°16'38"E	10.00'
C51	14.14'	S44°19'40"E	10.00'
C52	14.14'	S45°16'38"E	10.00'
C53	14.14'	N44°19'40"E	10.00'
C54	14.14'	N45°16'38"E	10.00'
C55	14.14'	S44°19'40"E	10.00'
C56	14.14'	S45°16'38"E	10.00'
C57	14.14'	N44°19'40"E	10.00'
C58	14.14'	N45°16'38"E	10.00'
C59	14.14'	S44°19'40"E	10.00'
C60	14.14'	S45°16'38"E	10.00'
C61	14.14'	N44°19'40"E	10.00'
C62	14.14'	N45°16'38"E	10.00'
C63	14.14'	S44°19'40"E	10.00'
C64	14.14'	S45°16'38"E	10.00'
C65	14.14'	N44°19'40"E	10.00'
C66	14.14'	N45°16'38"E	10.00'
C67	14.14'	S44°19'40"E	10.00'
C68	14.14'	S45°16'38"E	10.00'
C69	14.14'	N44°19'40"E	10.00'
C70	14.14'	N45°16'38"E	10.00'
C71	14.14'	S44°19'40"E	10.00'
C72	14.14'	S45°16'38"E	10.00'
C73	14.14'	N44°19'40"E	10.00'
C74	14.14'	N45°16'38"E	10.00'
C75	14.14'	S44°19'40"E	10.00'
C76	14.14'	S45°16'38"E	10.00'
C77	14.14'	N44°19'40"E	10.00'
C78	14.14'	N45°16'38"E	10.00'
C79	14.14'	S44°19'40"E	10.00'
C80	14.14'	S45°16'38"E	10.00'
C81	14.14'	N44°19'40"E	10.00'
C82	14.14'	N45°16'38"E	10.00'
C83	14.14'	S44°19'40"E	10.00'
C84	14.14'	S45°16'38"E	10.00'
C85	14.14'	N44°19'40"E	10.00'
C86	14.14'	N45°16'38"E	10.00'
C87	14.14'	S44°19'40"E	10.00'
C88	14.14'	S45°16'38"E	10.00'
C89	14.14'	N44°19'40"E	10.00'
C90	14.14'	N45°16'38"E	10.00'
C91	14.14'	S44°19'40"E	10.00'
C92	14.14'	S45°16'38"E	10.00'
C93	14.14'	N44°19'40"E	10.00'
C94	14.14'	N45°16'38"E	10.00'
C95	14.14'	S44°19'40"E	10.00'
C96	14.14'	S45°16'38"E	10.00'
C97	14.14'	N44°19'40"E	10.00'
C98	14.14'	N45°16'38"E	10.00'
C99	14.14'	S44°19'40"E	10.00'
C100	14.14'	S45°16'38"E	10.00'

Curve #	Chord Length	Chord Direction	Radius
C101	30.34'	S71°17'48"E	190.00'
C102	49.13'	S83°18'06"E	190.00'
C103	14.14'	N44°19'40"E	10.00'
C104	73.40'	N85°26'33"E	524.00'
C105	63.40'	N85°27'37"E	470.00'
C106	14.14'	S45°40'20"E	10.00'
C107	35.75'	S70°41"E	9972.50'
C108	8.79'	S45°29'33"W	48.71'
C109	28.14'	S45°16'38"E	155.07'
C110	9.58'	N76°18'40"E	100.06'
C111	8.99'	N79°54'11"E	100.06'
C112	18.87'	N45°45'32"E	100.00'
C113	14.14'	N44°19'40"E	10.00'
C114	14.14'	N45°16'38"E	10.00'
C115	14.14'	S44°19'40"E	10.00'
C116	14.14'	S45°16'38"E	10.00'
C117	14.14'	N44°19'40"E	10.00'
C118	14.14'	N45°16'38"E	10.00'
C119	14.14'	S44°19'40"E	10.00'
C120	14.14'	S45°16'38"E	10.00'
C121	14.14'	N44°19'40"E	10.00'
C122	14.14'	N45°16'38"E	10.00'
C123	14.14'	S44°19'40"E	10.00'
C124	14.14'	S45°16'38"E	10.00'
C125	14.14'	N44°19'40"E	10.00'
C126	14.14'	N45°16'38"E	10.00'
C127	14.14'	S44°19'40"E	10.00'
C128	14.14'	S45°16'38"E	10.00'
C129	14.14'	N44°19'40"E	10.00'
C130	14.14'	N45°16'38"E	10.00'
C131	14.14'	S44°19'40"E	10.00'
C132	14.14'	S45°16'38"E	10.00'
C133	14.14'	N44°19'40"E	10.00'
C134	14.14'	N45°16'38"E	10.00'
C135	14.14'	S44°19'40"E	10.00'
C136	14.14'	S45°16'38"E	10.00'
C137	14.14'	N44°19'40"E	10.00'
C138	14.14'	N45°16'38"E	10.00'
C139	14.14'	S44°19'40"E	10.00'
C140	14.14'	S45°16'38"E	10.00'
C141	14.14'	N44°19'40"E	10.00'
C142	14.14'	N45°16'38"E	10.00'
C143	14.14'	S44°19'40"E	10.00'
C144	14.14'	S45°16'38"E	10.00'
C145	14.14'	N44°19'40"E	10.00'
C146	14.14'	N45°16'38"E	10.00'
C147	14.14'	S44°19'40"E	10.00'
C148	14.14'	S45°16'38"E	10.00'
C149	14.14'	N44°19'40"E	10.00'
C150	14.14'	N45°16'38"E	10.00'
C151	14.14'	S44°19'40"E	10.00'
C152	14.14'	S45°16'38"E	10.00'
C153	14.14'	N44°19'40"E	10.00'
C154	14.14'	N45°16'38"E	10.00'
C155	20.39'	N27°15'37"W	20.00'
C156	10.43'	S70°32'27"E	500.00'
C157	10.43'	S70°32'27"E	500.00'
C158	14.45'	S22°58'10"E	10.00'
C159	14.45'	S22°58'10"E	10.00'
C160	7.56'	N17°38'22"E	150.00'
C161	7.56'	N17°38'22"E	150.00'
C162	73.20'	S78°22'39"E	181.00'
C163	21.86'	S87°58'10"E	500.00'
C164	25.00'	N03°58'10"E	10027.50'
C165	8.57'	S25°37'42"E	6.17'
C166	8.57'	S84°22'18"W	6.17'
C167	11.58'	N68°11'03"W	226.17'

Curve #	Chord Length	Chord Direction	Radius
C168	3.39'	N07°28'36"W	10027.50'
C169	27.96'	N65°06'39"W	482.67'
C170	10.92'	N23°16'38"E	5.42'
C171	27.96'	S68°19'24"E	482.67'
C172	10.92'	N23°16'38"E	5.42'
C173	10.92'	S68°19'24"E	482.67'
C174	10.92'	N23°16'38"E	5.42'
C175	10.92'	S68°19'24"E	482.67'
C176	10.92'	N23°16'38"E	5.42'
C177	10.92'	S68°19'24"E	482.67'
C178	10.92'	N23°16'38"E	5.42'
C179	10.92'	S68°19'24"E	482.67'
C180	10.92'	N23°16'38"E	5.42'
C181	10.92'	S68°19'24"E	482.67'
C182	10.92'	N23°16'38"E	5.42'
C183	10.92'	S68°19'24"E	482.67'
C184	10.92'	N23°16'38"E	5.42'
C185	10.92'	S68°19'24"E	482.67'
C186	10.92'	N23°16'38"E	5.42'
C187	10.92'	S68°19'24"E	482.67'
C188	10.92'	N23°16'38"E	5.42'
C189	10.92'	S68°19'24"E	482.67'
C190	10.92'	N23°16'38"E	5.42'
C191	10.92'	S68°19'24"E	482.67'
C192	10.92'	N23°16'38"E	5.42'
C193	10.92'	S68°19'24"E	482.67'
C194	10.92'	N23°16'38"E	5.42'
C195	10.92'	S68°19'24"E	482.67'
C196	10.92'	N23°16'38"E	5.42'
C197	10.92'	S68°19'24"E	482.67'
C198	10.92'	N23°16'38"E	5.42'
C199	10.92'	S68°19'24"E	482.67'
C200	10.92'	N23°16'38"E	5.42'

Curve Table			
Curve #	Chord Length	Chord Direction	Radius
C147	28.30'	N45°45'23"W	20.00'
C148	14.14'	S44°44'37"W	10.00'
C149	14.14'	S44°44'37"W	10.00'
C150	28.27'	S44°44'37"W	20.00'
C151	14.14'	N44°16'02"E	10.00'
C152	14.14'	N44°16'02"E	10.00'
C153	14.14'	N44°16'02"E	10.00'
C154	14.14'	S44°45'23"E	10.00'
C155	20.29'	N27°15'57"W	20.00'
C156	10.143'	S51°55'24"W	57.500'
C157	23.02'	S70°32'27"E	500.00'
C158	14.485'	S22°58'10"E	10.000'
C159	7.946'	N30°39'03"W	100.000'
C160	73.200'	S78°22'59"E	181.000'
C161	21.867'	S67°58'10"E	100.000'
C162	25.000'	N07°33'48"E	100.000'
C163	8.517'	S29°37'27"E	6.117'
C164	8.517'	S64°22'18"E	6.117'
C165	11.858'	N88°11'03"W	226.17'



SCALE	N.T.S.	PROJECT	PUL-048	SHEET	C3.5
DRAWN:	A. FRANCIS	DESIGNED:	S. SIERRA-GIL	CHECKED:	L. CLASSON
				DATE:	4/18/2025

LINE TABLES
CONSTRUCTION SITE PLAN

CIVIL ENGINEERING | LAND PLANNING

APPJIAN ENGINEERING LLC.

APPJIANFL.COM • 407.960.5868

2021 LAM ROAD, SUITE 27, WILMINGTON, MASS. 01890

OFFICE OF THE BOARD OF REGISTRATION OF PROFESSIONAL ENGINEERS AND ARCHITECTS

[illegible]

Line	Length	Direction
L347	20.00	S37 40° 20"E
L348	20.00	S37 40° 20"W
L349	92.00	S89 19 40"W
L350	20.00	S89 19 40"W
L351	25.00	S37 40° 20"E
L352	25.00	N37 40° 20"E
L353	92.00	S89 19 40"W
L354	20.00	S37 40° 20"E
L355	20.00	N37 40° 20"W
L356	92.00	S89 19 40"W
L357	20.00	S37 40° 20"E
L358	20.00	N37 40° 20"W
L359	92.00	S89 19 40"W
L360	20.00	S37 40° 20"E
L361	92.00	S89 19 40"W
L362	20.00	S37 40° 20"E
L363	20.00	N37 40° 20"W
L364	92.00	S89 19 40"W
L365	20.00	S37 40° 20"E
L366	20.00	N37 40° 20"W

Line #	Length	Direction
L327	20.00m	N 47° 40' 20" W
L328	92.00m	S 89° 19' 40" W
L329	20.00m	S 89° 19' 40" W
L330	92.00m	S 89° 19' 40" W
L331	20.00m	N 47° 40' 20" W
L332	20.00m	S 89° 19' 40" W
L333	20.00m	S 89° 19' 40" W
L334	92.00m	S 89° 19' 40" W
L335	20.00m	S 89° 19' 40" W
L336	20.00m	N 47° 40' 20" W
L337	92.00m	S 89° 19' 40" W
L338	20.00m	S 89° 19' 40" W
L339	20.00m	N 47° 40' 20" W
L340	92.00m	S 89° 19' 40" W
L341	20.00m	S 89° 19' 40" W
L342	20.00m	N 47° 40' 20" W
L343	92.00m	S 89° 19' 40" W
L344	20.00m	S 89° 19' 40" W
L345	20.00m	N 47° 40' 20" W
L346	92.00m	S 89° 19' 40" W

Line #	Length	Direction
L307	92.000	N89° 19' 40"E
L308	20.000	S37° 40' 20"E
L309	20.000	S37° 40' 20"E
L310	92.000	N89° 19' 40"E
L311	20.000	S37° 40' 20"E
L312	20.000	S37° 40' 20"E
L313	92.000	N89° 19' 40"E
L314	20.000	S37° 40' 20"E
L315	20.000	N37° 40' 20"E
L316	92.000	S89° 19' 40"W
L317	20.000	S37° 40' 20"E
L318	20.000	N37° 40' 20"E
L319	92.000	S89° 19' 40"W
L320	20.000	S37° 40' 20"E
L321	20.000	N37° 40' 20"E
L322	92.000	S89° 19' 40"W
L323	20.000	S37° 40' 20"E
L324	20.000	N37° 40' 20"E
L325	92.000	S89° 19' 40"W
L326	20.000	S37° 40' 20"E

Line #	Length	Direction
L467	20,000	S 43° 58'E
L468	25,000	S 43° 58'E
L469	25,000	S 43° 58'E
L470	25,000	S 43° 58'E
L471	25,000	S 43° 58'E
L472	25,000	S 43° 58'E
L473	25,000	S 43° 58'E
L474	25,000	S 43° 58'E
L475	25,000	S 43° 58'E
L476	25,000	S 43° 58'E
L477	25,000	S 43° 58'E
L478	25,000	S 43° 58'E
L479	25,000	S 43° 58'E
L480	25,000	S 43° 58'E
L481	13,500	N 47° 20'W
L482	33,516	N 47° 20'W
L483	33,516	N 47° 20'W
L484	55,000	N 47° 20'W
L485	55,000	N 47° 20'W
L486	112,000	N 47° 20'W

Line #	Length	Direction	Table
L447	20.00	N07° 40' 20" W	
L448	92.316	N89° 19' 40" E	
L449	20.00	S03° 43' 58" E	
L450	25.00	N07° 40' 20" W	
L451	92.323	N89° 19' 40" E	
L452	25.00	N03° 43' 58" E	
L453	20.00	N07° 40' 20" W	
L454	92.328	N89° 19' 40" E	
L455	25.00	S03° 43' 58" E	
L456	20.00	N07° 40' 20" W	
L457	92.320	N89° 19' 40" E	
L458	20.00	N07° 40' 20" W	
L459	20.00	N07° 40' 20" W	
L460	92.311	N89° 19' 40" E	
L461	20.00	S03° 43' 58" E	
L462	20.00	N07° 40' 20" W	
L463	92.332	N89° 19' 40" E	
L464	20.00	N03° 43' 58" E	
L465	20.00	N07° 40' 20" W	
L466	92.333	N89° 19' 40" E	

Line #	Length	Direction
1437	92.568	N89° 19' 40"E
1438	20.000	S07° 43' 58"E
1439	20.000	N07° 40' 20"E
1440	92.979	N89° 19' 40"E
1441	20.000	S07° 43' 58"E
1442	93.210	N89° 19' 40"E
1443	20.000	S07° 43' 58"E
1444	92.121	N89° 19' 40"E
1445	20.000	S07° 43' 58"E
1446	92.148	N89° 19' 40"E
1447	20.000	S07° 43' 58"E
1448	92.174	N89° 19' 40"E
1449	20.000	S07° 43' 58"E
1450	92.150	N89° 19' 40"E
1451	20.000	S07° 43' 58"E
1452	92.165	N89° 19' 40"E
1453	20.000	S07° 43' 58"E
1454	92.166	N89° 19' 40"E
1455	20.000	S07° 43' 58"E
1456	92.166	N89° 19' 40"E
1457	20.000	S07° 43' 58"E
1458	92.166	N89° 19' 40"E
1459	20.000	S07° 43' 58"E
1460	92.166	N89° 19' 40"E
1461	20.000	S07° 43' 58"E
1462	92.166	N89° 19' 40"E
1463	20.000	S07° 43' 58"E
1464	92.166	N89° 19' 40"E
1465	20.000	S07° 43' 58"E
1466	92.166	N89° 19' 40"E
1467	20.000	S07° 43' 58"E
1468	92.166	N89° 19' 40"E
1469	20.000	S07° 43' 58"E
1470	92.166	N89° 19' 40"E
1471	20.000	S07° 43' 58"E
1472	92.166	N89° 19' 40"E
1473	20.000	S07° 43' 58"E
1474	92.166	N89° 19' 40"E
1475	20.000	S07° 43' 58"E
1476	92.166	N89° 19' 40"E
1477	20.000	S07° 43' 58"E
1478	92.166	N89° 19' 40"E
1479	20.000	S07° 43' 58"E
1480	92.166	N89° 19' 40"E
1481	20.000	S07° 43' 58"E
1482	92.166	N89° 19' 40"E
1483	20.000	S07° 43' 58"E
1484	92.166	N89° 19' 40"E
1485	20.000	S07° 43' 58"E
1486	92.166	N89° 19' 40"E
1487	20.000	S07° 43' 58"E
1488	92.166	N89° 19' 40"E
1489	20.000	S07° 43' 58"E
1490	92.166	N89° 19' 40"E
1491	20.000	S07° 43' 58"E
1492	92.166	N89° 19' 40"E
1493	20.000	S07° 43' 58"E
1494	92.166	N89° 19' 40"E
1495	20.000	S07° 43' 58"E
1496	92.166	N89° 19' 40"E
1497	20.000	S07° 43' 58"E
1498	92.166	N89° 19' 40"E
1499	20.000	S07° 43' 58"E
1500	92.166	N89° 19' 40"E

Line #	Length	Direction	Line Table
L527	92.000	N07°43'58"E	
L528	25.000	N07°43'58"E	
L529	25.000	N07°43'58"E	
L530	92.000	S09°16'02"W	
L531	25.000	S09°16'02"W	
L532	20.000	N07°43'58"E	
L533	92.000	S09°16'02"W	
L534	20.000	S07°43'58"E	
L535	20.000	N07°43'58"E	
L536	92.000	S09°16'02"W	
L537	20.000	N07°43'58"E	
L538	20.000	N07°43'58"E	
L539	92.000	S09°16'02"W	
L540	20.000	S07°43'58"E	
L541	20.000	N07°43'58"E	
L542	92.000	S09°16'02"W	
L543	20.000	S09°16'02"W	
L544	28.677	N07°43'58"W	
L545	92.000	S09°16'02"W	
L546	28.077	S07°43'58"E	

Line #	Length	Direction
L507	20.000	330° 43' 58"E
L508	20.000	300° 16' 02"W
L509	92.000	S89° 16' 02"W
L510	20.000	330° 43' 58"E
L511	20.000	300° 16' 02"W
L512	92.000	S89° 16' 02"W
L513	20.000	330° 43' 58"E
L514	25.000	300° 16' 02"W
L515	92.000	S89° 16' 02"W
L516	25.000	330° 43' 58"E
L517	25.000	300° 16' 02"W
L518	92.000	S89° 16' 02"W
L519	25.000	330° 43' 58"E
L520	25.000	300° 16' 02"W
L521	92.000	S89° 16' 02"W
L522	20.000	330° 43' 58"E
L523	20.000	300° 16' 02"W
L524	92.000	S89° 16' 02"W
L525	20.000	330° 43' 58"E
L526	25.000	300° 16' 02"W

Line #	Length	Direction
L487	26.246	N 07.43° S 88°
L488	62.008	S 89.13° E 12°
L489	18.195	S 87.43° S 88°
L490	20.000	S 89.16° E 02°
L491	92.000	S 89.16° E 02°
L492	20.000	N 07.43° S 88°
L493	20.000	N 07.43° S 88°
L494	92.000	S 89.16° E 02°
L495	20.000	N 07.43° S 88°
L496	25.000	N 07.43° S 88°
L497	92.000	S 89.16° E 02°
L498	25.000	N 07.43° S 88°
L499	20.000	N 07.43° S 88°
L500	92.000	S 89.16° E 02°
L501	25.000	N 07.43° S 88°
L502	20.000	N 07.43° S 88°
L503	92.000	S 89.16° E 02°
L504	20.000	N 07.43° S 88°
L505	20.000	N 07.43° S 88°
L506	92.000	S 89.16° E 02°

Use #	Length	Direction	Use Table
L587	92,000	N6P 16 02°E	
L588	20,000	N0P 07° 58'E	
L589	20,000	N07° 43' 58"E	
L590	92,000	N6P 16 02°E	
L591	20,000	N0P 07° 58'E	
L592	25,000	N07° 43' 58"E	
L593	92,000	N6P 16 02°E	
L594	25,000	N07° 43' 58"E	
L595	92,000	N6P 16 02°E	
L596	25,000	N07° 43' 58"E	
L597	25,000	N07° 43' 58'E	
L598	20,000	N07° 43' 58"E	
L599	92,000	N6P 16 02°E	
L600	20,000	N07° 43' 58'E	
L601	20,000	N07° 43' 58"E	
L602	92,000	N6P 16 02°E	
L603	20,000	N07° 43' 58'E	
L604	18,186	N07° 43' 58"E	
L605	61,992	S59P 13 12°W	
L606	28,135	S0P 07° 58'E	

Line	Use #	Length	Direction
L567	25,000	30° 43' 56"E	
L568	25,000	30° 43' 56"E	
L569	92,000	N89° 16' 02"E	
L570	20,000	30° 43' 56"E	
L571	20,000	30° 43' 56"E	
L572	92,000	N89° 16' 02"E	
L573	20,000	30° 43' 56"E	
L574	25,000	30° 43' 56"E	
L575	92,000	N89° 16' 02"E	
L576	25,000	30° 43' 56"E	
L577	25,000	30° 43' 56"E	
L578	92,000	N89° 16' 02"E	
L579	25,000	30° 43' 56"E	
L580	92,000	N89° 16' 02"E	
L581	25,000	30° 43' 56"E	
L582	20,000	30° 43' 56"E	
L583	20,000	30° 43' 56"E	
L584	92,000	N89° 16' 02"E	
L585	20,000	30° 43' 56"E	
L586	20,000	30° 43' 56"E	

Line #	Length	Line Direction
1,547	28,037	NO 43° 56'W
1,548	92,000	NEP 16° 02'E
1,549	28,037	NO 43° 56'W
1,550	28,037	NO 43° 56'W
1,551	40,000	NO 43° 56'W
1,552	28,037	NO 43° 56'W
1,553	28,037	NO 43° 56'W
1,554	28,037	NO 43° 56'W
1,555	28,037	NO 43° 56'W
1,556	13,100	NO 43° 56'W
1,557	28,037	NO 43° 56'W
1,558	28,037	NO 43° 56'W
1,559	28,037	NO 43° 56'W
1,560	28,037	NO 43° 56'W
1,561	28,037	NO 43° 56'W
1,562	28,037	NO 43° 56'W
1,563	28,037	NO 43° 56'W
1,564	28,037	NO 43° 56'W
1,565	28,037	NO 43° 56'W
1,566	28,037	NO 43° 56'W
1,567	28,037	NO 43° 56'W
1,568	28,037	NO 43° 56'W
1,569	28,037	NO 43° 56'W
1,570	28,037	NO 43° 56'W
1,571	28,037	NO 43° 56'W
1,572	28,037	NO 43° 56'W
1,573	28,037	NO 43° 56'W
1,574	28,037	NO 43° 56'W
1,575	28,037	NO 43° 56'W
1,576	28,037	NO 43° 56'W
1,577	28,037	NO 43° 56'W
1,578	28,037	NO 43° 56'W
1,579	28,037	NO 43° 56'W
1,580	28,037	NO 43° 56'W
1,581	28,037	NO 43° 56'W
1,582	28,037	NO 43° 56'W
1,583	28,037	NO 43° 56'W
1,584	28,037	NO 43° 56'W
1,585	28,037	NO 43° 56'W
1,586	28,037	NO 43° 56'W
1,587	28,037	NO 43° 56'W
1,588	28,037	NO 43° 56'W
1,589	28,037	NO 43° 56'W
1,590	28,037	NO 43° 56'W
1,591	28,037	NO 43° 56'W
1,592	28,037	NO 43° 56'W
1,593	28,037	NO 43° 56'W
1,594	28,037	NO 43° 56'W
1,595	28,037	NO 43° 56'W
1,596	28,037	NO 43° 56'W
1,597	28,037	NO 43° 56'W
1,598	28,037	NO 43° 56'W
1,599	28,037	NO 43° 56'W
1,600	28,037	NO 43° 56'W
1,601	28,037	NO 43° 56'W
1,602	28,037	NO 43° 56'W
1,603	28,037	NO 43° 56'W
1,604	28,037	NO 43° 56'W
1,605	28,037	NO 43° 56'W
1,606	28,037	NO 43° 56'W
1,607	28,037	NO 43° 56'W
1,608	28,037	NO 43° 56'W
1,609	28,037	NO 43° 56'W
1,610	28,037	NO 43° 56'W
1,611	28,037	NO 43° 56'W
1,612	28,037	NO 43° 56'W
1,613	28,037	NO 43° 56'W
1,614	28,037	NO 43° 56'W
1,615	28,037	NO 43° 56'W
1,616	28,037	NO 43° 56'W
1,617	28,037	NO 43° 56'W
1,618	28,037	NO 43° 56'W
1,619	28,037	NO 43° 56'W
1,620	28,037	NO 43° 56'W
1,621	28,037	NO 43° 56'W
1,622	28,037	NO 43° 56'W
1,623	28,037	NO 43° 56'W
1,624	28,037	NO 43° 56'W
1,625	28,037	NO 43° 56'W
1,626	28,037	NO 43° 56'W
1,627	28,037	NO 43° 56'W
1,628	28,037	NO 43° 56'W
1,629	28,037	NO 43° 56'W
1,630	28,037	NO 43° 56'W
1,631	28,037	NO 43° 56'W
1,632	28,037	NO 43° 56'W
1,633	28,037	NO 43° 56'W
1,634	28,037	NO 43° 56'W
1,635	28,037	NO 43° 56'W
1,636	28,037	NO 43° 56'W
1,637	28,037	NO 43° 56'W
1,638	28,037	NO 43° 56'W
1,639	28,037	NO 43° 56'W
1,640	28,037	NO 43° 56'W
1,641	28,037	NO 43° 56'W
1,642	28,037	NO 43° 56'W
1,643	28,037	NO 43° 56'W
1,644	28,037	NO 43° 56'W
1,645	28,037	NO 43° 56'W
1,646	28,037	NO 43° 56'W
1,647	28,037	NO 43° 56'W
1,648	28,037	NO 43° 56'W
1,649	28,037	NO 43° 56'W
1,650	28,037	NO 43° 56'W
1,651	28,037	NO 43° 56'W
1,652	28,037	NO 43° 56'W
1,653	28,037	NO 43° 56'W
1,654	28,037	NO 43° 56'W
1,655	28,037	NO 43° 56'W
1,656	28,037	NO 43° 56'W
1,657	28,037	NO 43° 56'W
1,658	28,037	NO 43° 56'W
1,659	28,037	NO 43° 56'W
1,660	28,037	NO 43° 56'W
1,661	28,037	NO 43° 56'W
1,662	28,037	NO 43° 56'W
1,663	28,037	NO 43° 56'W
1,664	28,037	NO 43° 56'W
1,665	28,037	NO 43° 56'W
1,666	28,037	NO 43° 56'W
1,667	28,037	NO 43° 56'W
1,668	28,037	NO 43° 56'W
1,669	28,037	NO 43° 56'W
1,670	28,037	NO 43° 56'W
1,671	28,037	NO 43° 56'W
1,672	28,037	NO 43° 56'W
1,673	28,037	NO 43° 56'W
1,674	28,037	NO 43° 56'W
1,675	28,037	NO 43° 56'W
1,676	28,037	NO 43° 56'W
1,677	28,037	NO 43° 56'W
1,678	28,037	NO 43° 56'W
1,679	28,037	NO 43° 56'W
1,680	28,037	NO 43° 56'W
1,681	28,037	NO 43° 56'W
1,682	28,037	NO 43° 56'W
1,683	28,037	NO 43° 56'W
1,684	28,037	NO 43° 56'W
1,685	28,037	NO 43° 56'W
1,686	28,037	NO 43° 56'W
1,687	28,037	NO 43° 56'W
1,688	28,037	NO 43° 56'W
1,689	28,037	NO 43° 56'W
1,690	28,037	NO 43° 56'W
1,691	28,037	NO 43° 56'W
1,692	28,037	NO 43° 56'W
1,693	28,037	NO 43° 56'W
1,694	28,037	NO 43° 56'W
1,695	28,037	NO 43° 56'W
1,696	28,037	NO 43° 56'W
1,697	28,037	NO 43° 56'W
1,698	28,037	NO 43° 56'W
1,699	28,037	NO 43° 56'W
1,700	28,037	NO 43° 56'W
1,701	28,037	NO 43° 56'W
1,702	28,037	NO 43° 56'W
1,703	28,037	NO 43° 56'W
1,704	28,037	NO 43° 56'W
1,705	28,037	NO 43° 56'W
1,706	28,037	NO 43° 56'W
1,707	28,037	NO 43° 56'W
1,708	28,037	NO 43° 56'W
1,709	28,037	NO 43° 56'W
1,710	28,037	NO 43° 56'W
1,711	28,037	NO 43° 56'W
1,712	28,037	NO 43° 56'W
1,713	28,037	NO 43° 56'W
1,714	28,037	NO 43° 56'W
1,715	28,037	NO 43° 56'W
1,716	28,037	NO 43° 56'W
1,717	28,037	NO 43° 56'W
1,718	28,037	NO 43° 56'W
1,719	28,037	NO 43° 56'W
1,720	28,037	NO 43° 56'W
1,721	28,037	NO 43° 56'W
1,722	28,037	NO 43° 56'W
1,723	28,037	NO 43° 56'W
1,724	28,037	NO 43° 56'W
1,725	28,037	NO 43° 56'W
1,726	28,037	NO 43° 56'W
1,727	28,037	NO 43° 56'W
1,728	28,037	NO 43° 56'W
1,729	28,037	NO 43° 56'W
1,730	28,037	NO 43° 56'W
1,731	28,037	NO 43° 56'W
1,732	28,037	NO 43° 56'W
1,733	28,037	NO 43° 56'W
1,734	28,037	NO 43° 56'W
1,735	28,037	NO 43° 56'W
1,736	28,037	NO 43° 56'W
1,737	28,037	NO 43° 56'W
1,738	28,037	NO 43° 56'W
1,739	28,037	NO 43° 56'W
1,740	28,037	NO 43° 56'W
1,741	28,037	NO 43° 56'W
1,742	28,037	NO 43° 56'W
1,743	28,037	NO 43° 56'W
1,744	28,037	NO 43° 56'W
1,745	28,037	NO 43° 56'W
1,746	28,037	NO 43° 56'W
1,747	28,037	NO 43° 56'W
1,748	28,037	NO 43° 56'W
1,749	28,037	NO 43° 56'W
1,750	28,037	NO 43° 56'W
1,751	28,037	NO 43° 56'W
1,752	28,037	NO 43° 56'W
1,753	28,037	NO 43° 56'W
1,754	28,037	NO 43° 56'W
1,755	28,037	NO 43° 56'W
1,756	28,037	NO 43° 56'W
1,757	28,037	NO 43° 56'W
1,758	28,037	NO 43° 56'W
1,759	28,037	NO 43° 56'W
1,760	28,037	NO 43° 56'W
1,761	28,037	NO 43° 56'W
1,762	28,037	NO 43° 56'W
1,763	28,037	NO 43° 56'W
1,764	28,037	NO 43° 56'W
1,765	28,037	NO 43° 56'W
1,766	28,037	NO 43° 56'W
1,767	28,037	NO 43° 56'W
1,768	28,037	NO 43° 56'W
1,769	28,037	NO 43° 56'W
1,770	28,037	NO 43° 56'W
1,771	28,037	NO 43° 56'W
1,772	28,037	NO 43° 56'W
1,773	28,037	NO 43° 56'W
1,774	28,037	NO 43° 56'W
1,775	28,037	NO 43° 56'W
1,776	28,037	NO 43° 56'W
1,777	28,037	NO 43° 56'W
1,778	28,037	NO 43° 56'W
1,779	28,037	NO 43° 56'W
1,780	28,037	NO 43° 56'W
1,781	28,037	NO 43° 56'W
1,782	28,037	NO 43° 56'W
1,783	28,037	NO 43° 56'W
1,784	28,037	NO 43° 56'W
1,785	28,037	NO 43° 56'W
1,786	28,037	NO 43° 56'W
1,787	28,037	NO 43° 56'W
1,788	28,037	NO 43° 56'W
1,789	28,037	NO 43° 56'W
1,790	28,037	NO 43° 56'W
1,791	28,037	NO 43° 56'W
1,792	28,037	NO 43° 56'W
1,793	28,037	NO 43° 56'W
1,794	28,037	NO 43° 56'W
1,795	28,037	NO 43° 56'W
1,796	28,037	NO 43° 56'W
1,797	28,037	NO 43° 56'W
1,798	28,037	NO 43° 56'W
1,799	28,037	NO 43° 56'W
1,800	28,037	NO 43° 56'W
1,801	28,037	NO 43° 56'W
1,802	28,037	NO 43° 56'W
1,803	28,037	NO 43° 56'W
1,804	28,037	NO 43° 56'W
1,805	28,037	NO 43° 56'W
1,806	28,037	NO 43° 56'W
1,807	28,037	NO 43° 56'W
1,808	28,037	NO 43° 56'W
1,809	28,037	NO 43° 56'W
1,810	28,037	NO 43° 56'W
1,811	28,037	NO 43° 56'W
1,812	28,037	NO 43° 56'W
1,813	28,037	NO 43° 56'W
1,814	28,037	NO 43° 56'W
1,815	28,037	NO 43° 56'W
1,816	28,037	NO 43° 56'W
1,817	28,037	NO 43° 56'W
1,818	28,037	NO 43° 56'W
1,819	28,037	NO 43° 56'W
1,820	28,037	NO 43° 56'W
1,821	28,037	NO 43° 56'W
1,822	28,037	NO 43° 56'W
1,823	28,037	NO 43° 56'W
1,824	28,037	NO 43° 56'W
1,825	28,037	NO 43° 56'W
1,826	28,037	NO 43° 56'W
1,827	28,037	NO 43° 56'W
1,828	28,037	NO 43° 56'W
1,829	28,037	NO 43° 56'W
1,830	28,037	NO 43° 56'W
1,831	28,037	NO 43° 56'W
1,832	28,037	NO 43° 56'W
1,833	28,037	NO 43° 56'W
1,834	28,037	NO 43° 56'W
1,835	28,037	NO 43° 56'W
1,836	28,037	NO 43° 56'W
1,837	28,037	NO 43° 56'W
1,838	28,037	NO 43° 56'W
1,839	28,037	NO 43° 56'W
1,840	28,037	NO 43° 56'W
1,841	28,037	NO 43° 56'W
1,842	28,037	NO 43° 56'W
1,843	28,037	NO 43° 56'W
1,844	28,037	NO 43° 56'W
1,845	28,037	NO 43° 56'W
1,846	28,037	NO 43° 56'W
1,847	28,037	NO 43° 56'W
1,848	28,037	NO 43° 56'W
1,849	28,037	NO 43° 56'W
1,850	28,037	NO 43° 56'W
1,851	28,037	NO 43° 56'W
1,852	28,037	NO 43° 56'W
1,853	28,037	NO 43° 56'W
1,854	28,037	NO 43° 56'W
1,855	28,037	NO 43° 56'W

[illegible]

Line #	Length	Direction	Line #	Length	Direction
L627	20.00	S 37° 43' 58"E	L687	20.00	S 37° 46' 48"E
L628	20.00	S 37° 43' 58"E	L688	20.00	S 37° 43' 58"W
L629	92.00	S 89° 15' 02"W	L689	16.87	N 89° 16' 02"E
L630	20.00	S 37° 43' 58"E	L690	25.00	S 37° 46' 48"E
L631	20.00	S 37° 43' 58"W	L691	25.00	S 37° 43' 58"E
L632	92.00	S 89° 15' 02"W	L692	93.08	N 89° 16' 02"E
L633	20.00	S 37° 43' 58"E	L693	20.00	S 37° 46' 48"E
L634	20.00	S 37° 43' 58"W	L694	20.00	S 37° 43' 58"E
L635	92.00	S 89° 16' 02"W	L695	98.224	N 89° 16' 02"E
L636	25.00	S 37° 43' 58"E	L696	20.00	S 37° 46' 48"E
L637	25.00	S 37° 43' 58"W	L697	20.00	S 37° 43' 58"E
L638	92.00	S 89° 15' 02"W	L698	95.241	N 89° 16' 02"E
L639	20.00	S 37° 43' 58"E	L699	20.00	S 37° 46' 48"E
L640	20.00	S 37° 43' 58"W	L700	20.00	S 37° 43' 58"E
L641	92.00	S 89° 16' 02"W	L701	98.257	N 89° 16' 02"E
L642	20.00	S 37° 43' 58"E	L702	20.00	S 37° 46' 48"E
L643	20.00	S 37° 43' 58"W	L703	20.00	S 37° 43' 58"E
L644	92.00	S 89° 15' 02"W	L704	98.274	N 89° 16' 02"E
L645	20.00	S 37° 43' 58"E	L705	20.00	S 37° 46' 48"E
L646	20.00	S 37° 43' 58"W	L706	20.00	N 37° 43' 58"E

Line #	Length	Direction	Line table
L667	20.000	N89° 43' 58"W	L667 20.000 N89° 43' 58"W
L668	20.000	S89° 13' 17"W	L668 20.000 S89° 13' 17"W
L669	17.981	S87° 43' 58"E	L669 17.981 S87° 43' 58"E
L670	20.000	N89° 43' 58"W	L670 20.000 N89° 43' 58"W
L671	92.000	S89° 15' 02"W	L671 92.000 S89° 15' 02"W
L672	17.981	S87° 43' 58"E	L672 17.981 S87° 43' 58"E
L673	20.000	N89° 43' 58"W	L673 20.000 N89° 43' 58"W
L674	92.000	S89° 15' 02"W	L674 92.000 S89° 15' 02"W
L675	20.000	S87° 43' 58"E	L675 20.000 S87° 43' 58"E
L676	20.000	N89° 43' 58"W	L676 20.000 N89° 43' 58"W
L677	92.000	S89° 15' 02"W	L677 92.000 S89° 15' 02"W
L678	20.000	S87° 43' 58"E	L678 20.000 S87° 43' 58"E
L679	20.000	N89° 43' 58"W	L679 20.000 N89° 43' 58"W
L680	92.000	S89° 15' 02"W	L680 92.000 S89° 15' 02"W
L681	20.000	S87° 43' 58"E	L681 20.000 S87° 43' 58"E
L682	20.000	N89° 43' 58"W	L682 20.000 N89° 43' 58"W
L683	92.000	S89° 15' 02"W	L683 92.000 S89° 15' 02"W
L684	20.000	S87° 43' 58"E	L684 20.000 S87° 43' 58"E
L685	20.000	N89° 43' 58"W	L685 20.000 N89° 43' 58"W
L686	92.000	S89° 15' 02"W	L686 92.000 S89° 15' 02"W

[illegible]

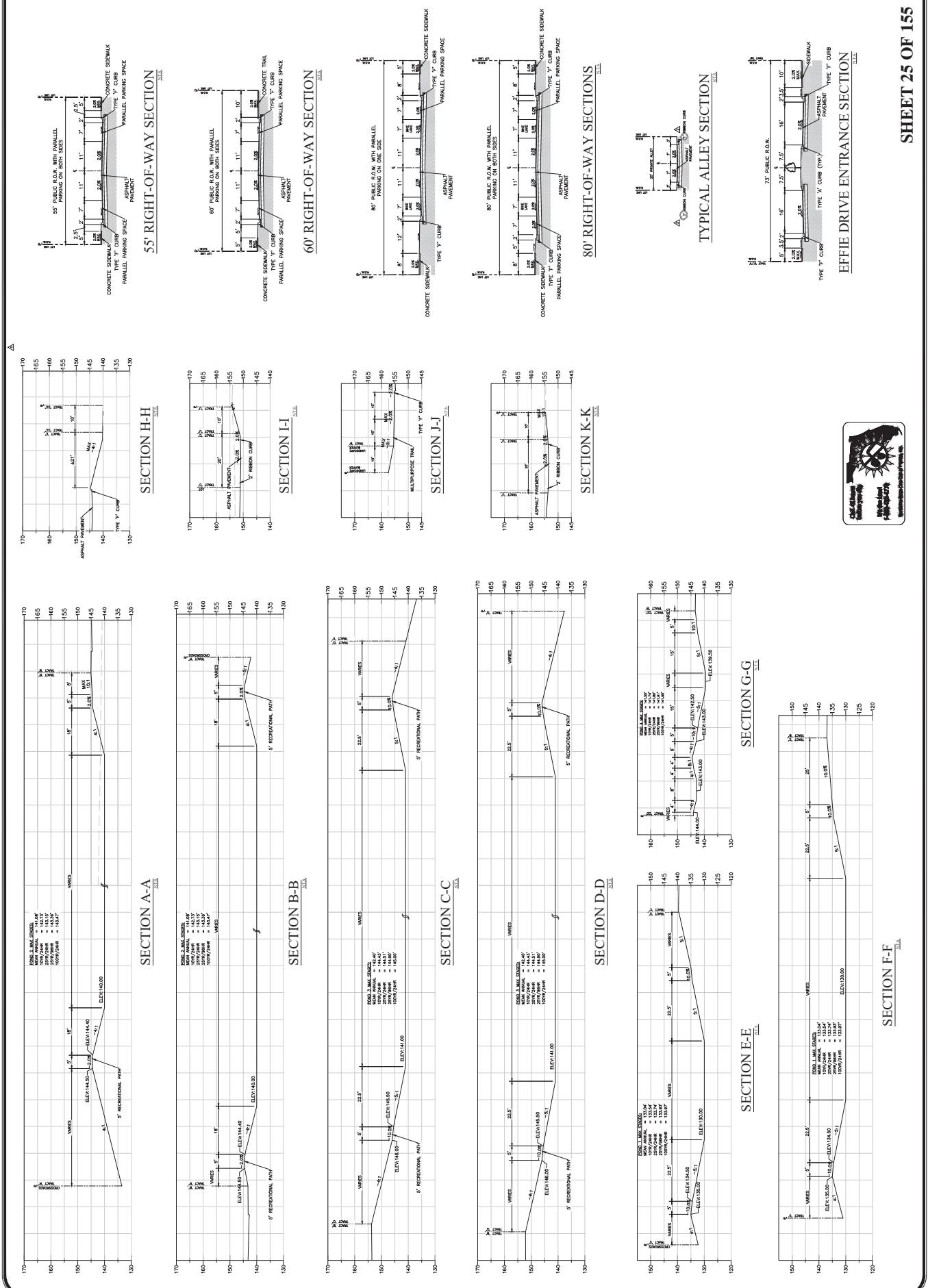
Line #	Length	Direction	Line #	Length	Direction
L748	40.000	S 0° 18' 38" E	L756	40.000	N 0° 18' 38" E
L749	39.833	N 0° 18' 38" E	L757	40.000	N 0° 18' 38" E
L750	38.481	S 0° 18' 38" E	L758	40.000	N 0° 18' 38" E
L751	38.000	N 89° 41' 22" E	L759	40.000	N 89° 41' 22" E
L752	40.000	N 89° 41' 22" E	L760	40.000	N 89° 41' 22" E
L753	40.000	N 89° 41' 22" E	L761	39.833	N 89° 41' 22" E
L754	40.000	N 89° 41' 22" E	L762	38.481	S 89° 41' 22" E
L755	40.000	N 0° 18' 38" E	L763	36.152	S 0° 18' 38" E
L756	40.000	N 89° 41' 22" E	L764	36.152	S 0° 18' 38" E
L757	40.000	N 89° 19' 24" N	L765	49.987	S 71° 51' 30" E
L758	40.000	S 89° 19' 24" N	L766	49.987	S 71° 51' 30" E
L759	39.810	S 89° 19' 24" N	L767	49.987	S 71° 51' 30" E
L760	40.000	S 89° 19' 24" N	L768	49.987	S 71° 51' 30" E
L761	39.810	S 89° 19' 24" N	L769	49.987	S 71° 51' 30" E
L762	36.152	S 89° 19' 24" N	L770	49.987	S 71° 51' 30" E
L763	36.152	S 89° 19' 24" N	L771	49.987	S 71° 51' 30" E
L764	36.152	S 89° 19' 24" N	L772	49.987	S 71° 51' 30" E
L765	49.987	S 71° 51' 30" E	L773	49.987	S 71° 51' 30" E
L766	49.987	S 71° 51' 30" E	L774	49.987	S 71° 51' 30" E
L767	49.987	S 71° 51' 30" E	L775	49.987	S 71° 51' 30" E
L768	49.987	S 71° 51' 30" E	L776	49.987	S 71° 51' 30" E
L769	49.987	S 71° 51' 30" E	L777	49.987	S 71° 51' 30" E
L770	49.987	S 71° 51' 30" E	L778	49.987	S 71° 51' 30" E
L771	49.987	S 71° 51' 30" E	L779	49.987	S 71° 51' 30" E
L772	49.987	S 71° 51' 30" E	L780	49.987	S 71° 51' 30" E
L773	49.987	S 71° 51' 30" E	L781	49.987	S 71° 51' 30" E
L774	49.987	S 71° 51' 30" E	L782	49.987	S 71° 51' 30" E
L775	49.987	S 71° 51' 30" E	L783	49.987	S 71° 51' 30" E
L776	49.987	S 71° 51' 30" E	L784	49.987	S 71° 51' 30" E
L777	49.987	S 71° 51' 30" E	L785	49.987	S 71° 51' 30" E
L778	49.987	S 71° 51' 30" E	L786	49.987	S 71° 51' 30" E
L779	49.987	S 71° 51' 30" E	L787	49.987	S 71° 51' 30" E
L780	49.987	S 71° 51' 30" E	L788	49.987	S 71° 51' 30" E
L781	49.987	S 71° 51' 30" E	L789	49.987	S 71° 51' 30" E
L782	49.987	S 71° 51' 30" E	L790	49.987	S 71° 51' 30" E
L783	49.987	S 71° 51' 30" E	L791	49.987	S 71° 51' 30" E
L784	49.987	S 71° 51' 30" E	L792	49.987	S 71° 51' 30" E
L785	49.987	S 71° 51' 30" E	L793	49.987	S 71° 51' 30" E
L786	49.987	S 71° 51' 30" E	L794	49.987	S 71° 51' 30" E
L787	49.987	S 71° 51' 30" E	L795	49.987	S 71° 51' 30" E
L788	49.987	S 71° 51' 30" E	L796	49.987	S 71° 51' 30" E
L789	49.987	S 71° 51' 30" E	L797	49.987	S 71° 51' 30" E
L790	49.987	S 71° 51' 30" E	L798	49.987	S 71° 51' 30" E
L791	49.987	S 71° 51' 30" E	L799	49.987	S 71° 51' 30" E
L792	49.987	S 71° 51' 30" E	L800	49.987	S 71° 51' 30" E
L793	49.987	S 71° 51' 30" E	L801	49.987	S 71° 51' 30" E
L794	49.987	S 71° 51' 30" E	L802	49.987	S 71° 51' 30" E
L795	49.987	S 71° 51' 30" E	L803	49.987	S 71° 51' 30" E
L796	49.987	S 71° 51' 30" E	L804	49.987	S 71° 51' 30" E
L797	49.987	S 71° 51' 30" E	L805	49.987	S 71° 51' 30" E
L798	49.987	S 71° 51' 30" E	L806	49.987	S 71° 51' 30" E
L799	49.987	S 71° 51' 30" E	L807	49.987	S 71° 51' 30" E
L800	49.987	S 71° 51' 30" E	L808	49.987	S 71° 51' 30" E
L801	49.987	S 71° 51' 30" E	L809	49.987	S 71° 51' 30" E
L802	49.987	S 71° 51' 30" E	L810	49.987	S 71° 51' 30" E
L803	49.987	S 71° 51' 30" E	L811	49.987	S 71° 51' 30" E
L804	49.987	S 71° 51' 30" E	L812	49.987	S 71° 51' 30" E
L805	49.987	S 71° 51' 30" E	L813	49.987	S 71° 51' 30" E
L806	49.987	S 71° 51' 30" E	L814	49.987	S 71° 51' 30" E
L807	49.987	S 71° 51' 30" E	L815	49.987	S 71° 51' 30" E
L808	49.987	S 71° 51' 30" E	L816	49.987	S 71° 51' 30" E
L809	49.987	S 71° 51' 30" E	L817	49.987	S 71° 51' 30" E
L810	49.987	S 71° 51' 30" E	L818	49.987	S 71° 51' 30" E
L811	49.987	S 71° 51' 30" E	L819	49.987	S 71° 51' 30" E
L812	49.987	S 71° 51' 30" E	L820	49.987	S 71° 51' 30" E
L813	49.987	S 71° 51' 30" E	L821	49.987	S 71° 51' 30" E
L814	49.987	S 71° 51' 30" E	L822	49.987	S 71° 51' 30" E
L815	49.987	S 71° 51' 30" E	L823	49.987	S 71° 51' 30" E
L816	49.987	S 71° 51' 30" E	L824	49.987	S 71° 51' 30" E
L817	49.987	S 71° 51' 30" E	L825	49.987	S 71° 51' 30" E
L818	49.987	S 71° 51' 30" E	L826	49.987	S 71° 51' 30" E
L819	49.987	S 71° 51' 30" E	L827	49.987	S 71° 51' 30" E
L820	49.987	S 71° 51' 30" E	L828	49.987	S 71° 51' 30" E
L821	49.987	S 71° 51' 30" E	L829	49.987	S 71° 51' 30" E
L822	49.987	S 71° 51' 30" E	L830	49.987	S 71° 51' 30" E
L823	49.987	S 71° 51' 30" E	L831	49.987	S 71° 51' 30" E
L824	49.987	S 71° 51' 30" E	L832	49.987	S 71° 51' 30" E
L825	49.987	S 71° 51' 30" E	L833	49.987	S 71° 51' 30" E
L826	49.987	S 71° 51' 30" E	L834	49.987	S 71° 51' 30" E
L827	49.987	S 71° 51' 30" E	L835	49.987	S 71° 51' 30" E
L828	49.987	S 71° 51' 30" E	L836	49.987	S 71° 51' 30" E
L829	49.987	S 71° 51' 30" E	L837	49.987	S 71° 51' 30" E
L830	49.987	S 71° 51' 30" E	L838	49.987	S 71° 51' 30" E
L831	49.987	S 71° 51' 30" E	L839	49.987	S 71° 51' 30" E
L832	49.987	S 71° 51' 30" E	L840	49.987	S 71° 51' 30" E
L833	49.987	S 71° 51' 30" E	L841	49.987	S 71° 51' 30" E
L834	49.987	S 71° 51' 30" E	L842	49.987	S 71° 51' 30" E
L835	49.987	S 71° 51' 30" E	L843	49.987	S 71° 51' 30" E
L836	49.987	S 71° 51' 30" E	L844	49.987	S 71° 51' 30" E
L837	49.987	S 71° 51' 30" E	L845	49.987	S 71° 51' 30" E
L838	49.987	S 71° 51' 30" E	L846	49.987	S 71° 51' 30" E
L839	49.987	S 71° 51' 30" E	L847	49.987	S 71° 51' 30" E
L840	49.987	S 71° 51' 30" E	L848	49.987	S 71° 51' 30" E
L841	49.987	S 71° 51' 30" E	L849	49.987	S 71° 51' 30" E
L842	49.987	S 71° 51' 30" E	L850	49.987	S 71° 51' 30" E
L843	49.987	S 71° 51' 30" E	L851	49.987	S 71° 51' 30" E
L844	49.987	S 71° 51' 30" E	L852	49.987	S 71° 51' 30" E
L845	49.987	S 71° 51' 30" E	L853	49.987	S 71° 51' 30" E
L846	49.987	S 71° 51' 30" E	L854	49.987	S 71° 51' 30" E
L847	49.987	S 71° 51' 30" E	L855	49.987	S 71° 51' 30" E
L848	49.987	S 71° 51' 30" E	L856	49.987	S 71° 51' 30" E
L849	49.987	S 71° 51' 30" E	L857	49.987	S 71° 51' 30" E
L850	49.987	S 71° 51' 30" E	L858	49.987	S 71° 51' 30" E
L851	49.987	S 71° 51' 30" E	L859	49.987	S 71° 51' 30" E
L852	49.987	S 71° 51' 30" E	L860	49.987	S 71° 51' 30" E
L853	49.987	S 71° 51' 30" E	L861	49.987	S 71° 51' 30" E
L854	49.987	S 71° 51' 30" E	L862	49.987	S 71° 51' 30" E
L855	49.987	S 71° 51' 30" E	L863	49.987	S 71° 51' 30" E
L856	49.987	S 71° 51' 30" E	L864	49.987	S 71° 51' 30" E
L857	49.987	S 71° 51' 30" E	L865	49.987	S 71° 51' 30" E
L858	49.987	S 71° 51' 30" E	L866	49.987	S 71° 51' 30" E
L859	49.987	S 71° 51' 30" E	L867	49.987	S 71° 51' 30" E
L860	49.987	S 71° 51' 30" E	L868	49.987	S 71° 51' 30" E
L861	49.987	S 71° 51' 30" E	L869	49.987	S 71° 51' 30" E
L862	49.987	S 71° 51' 30" E	L870	49.987	S 71° 51' 30" E
L863	49.987	S 71° 51' 30" E	L871	49.987	S 71° 51' 30" E
L864	49.987	S 71° 51' 30" E	L872	49.987	S 71° 51' 30" E
L865	49.987	S 71° 51' 30" E	L873	49.987	S 71° 51' 30" E
L866	49.987	S 71° 51' 30" E	L874	49.987	S 71° 51' 30" E
L867	49.987	S 71° 51' 30" E	L875	49.987	S 71° 51' 30" E
L868	49.987	S 71° 51' 30" E	L876	49.987	S 71° 51' 30" E
L869	49.987	S 71° 51' 30" E	L877	49.987	S 71° 51' 30" E
L870	49.987	S 71° 51' 30" E	L878	49.987	S 71° 51' 30" E
L871	49.987	S 71° 51' 30" E	L879	49.987	S 71° 51' 30" E
L872	49.987	S 71° 51' 30" E	L880	49.987	S 71° 51' 30" E
L873	49.987	S 71° 51' 30" E	L881	49.987	S 71° 51' 30" E
L874	49.987	S 71° 51' 30" E	L882	49.987	S 71° 51' 30" E
L875	49.987	S 71° 51' 30" E	L883	49.987	S 71° 51' 30" E
L876	49.987	S 71° 51' 30" E	L884	49.987	S 71° 51' 30" E
L877	49.987	S 71° 51' 30" E	L885	49.987	S 71° 51' 30" E
L878	49.987	S 71° 51' 30" E	L886	49.987	S 71° 51' 30" E
L879	49.987	S 71° 51' 30" E	L887	49.987	S 71° 51' 30" E
L880	49.987	S 71° 51' 30" E	L888	49.987	S 71° 51' 30" E
L881	49.987	S 71° 51' 30" E	L889	49.987	S 71° 51' 30" E
L882	49.987	S 71° 51' 30" E	L890	49.987	S 71° 51' 30" E
L883	49.987	S 71° 51' 30" E	L891	49.987	S 71° 51' 30" E
L884	49.987	S 71° 51' 30" E	L892	49.987	S 71° 51' 30" E
L885	49.987	S 71° 51' 30" E	L893	49.987	S 71° 51' 30" E
L886	49.987	S 71° 51' 30" E	L894	49.987	S 71° 51' 30" E
L887	49.987	S 71° 51' 30" E	L895	49.987	S 71° 51' 30" E
L888	49.987	S 71° 51' 30" E	L896	49.987	S 71° 51' 30" E
L889	49.987	S 71° 51' 30" E	L897	49.987	S 71° 51' 30" E
L890	49.987	S 71° 51' 30" E	L898	49.987	S 71° 51' 30" E
L891	49.987	S 71° 51' 30" E	L899	49.987	S 71° 51' 30" E
L892	49.987	S 71° 51' 30" E	L900	49.987	S 71° 51' 30" E
L893	49.987	S 71° 51' 30" E	L901	49.987	S 71° 51' 30" E
L894	49.987	S 71° 51' 30" E	L902	49.987	S 71° 51' 30" E
L895	49.987	S 71° 51' 30" E	L903	49.987	S 71° 51' 30" E
L896	49.987	S 71° 51' 30" E	L904	49.987	S 71° 51' 30" E
L897	49.987	S 71° 51' 30" E	L905	49.987	S 71° 51' 30" E
L898	49.987	S 71° 51' 30" E	L906	49.987	S 71° 51' 30" E
L899	49.987	S 71° 51' 30" E	L907	49.987	S 71° 51' 30" E
L900	49.987	S 71° 51' 30" E	L908	49.987	S 71° 51' 30" E
L901	49.987	S 71° 51' 30" E	L909	49.987	S 71° 51' 30" E
L902	49.987	S 71° 51' 30" E	L910	49.987	S 71° 51' 30" E
L903	49.987	S 71° 51' 30" E	L911	49.987	S 71° 51' 30" E
L904	49.987	S 71° 51' 30" E	L912	49.987	S 71° 51' 30" E
L905	49.987	S 71° 51' 30" E	L913	49.987	S 71° 51' 30" E
L906	49.987	S 7			

Line #	Length	Direction	Line Total
U27	20.00	N 43° 38' W	100
U28	35.414	N 69° 16' 46" E	135
U29	20.00	S 57° 46' 48" E	155
U30	31.025	N 43° 38' W	186
U31	33.046	S 46° 48' 48" E	219
U32	20.00	N 43° 38' W	239
U33	40.00	N 69° 19' 40" E	279
U34	40.00	N 69° 16' 42" E	319
U35	40.00	N 69° 16' 42" E	359
U36	30.00	N 43° 38' W	389
U37	23.992	N 43° 38' W	413
U38	30.00	N 43° 38' W	443
U39	50.241	N 40° 20' 00" E	493
U40	50.241	N 40° 20' 00" E	543
U41	48.833	N 41° 48' 00" E	592
U42	49.746	N 40° 20' 00" E	641
U43	40.00	N 69° 19' 40" E	681
U44	40.00	N 69° 19' 40" E	721
U45	40.00	N 69° 16' 42" E	761
U46	35.412	S 57° 46' 48" E	810
U47	40.00	S 57° 46' 48" E	850



SHEET 24 OF 155





SHEET 26 OF 155

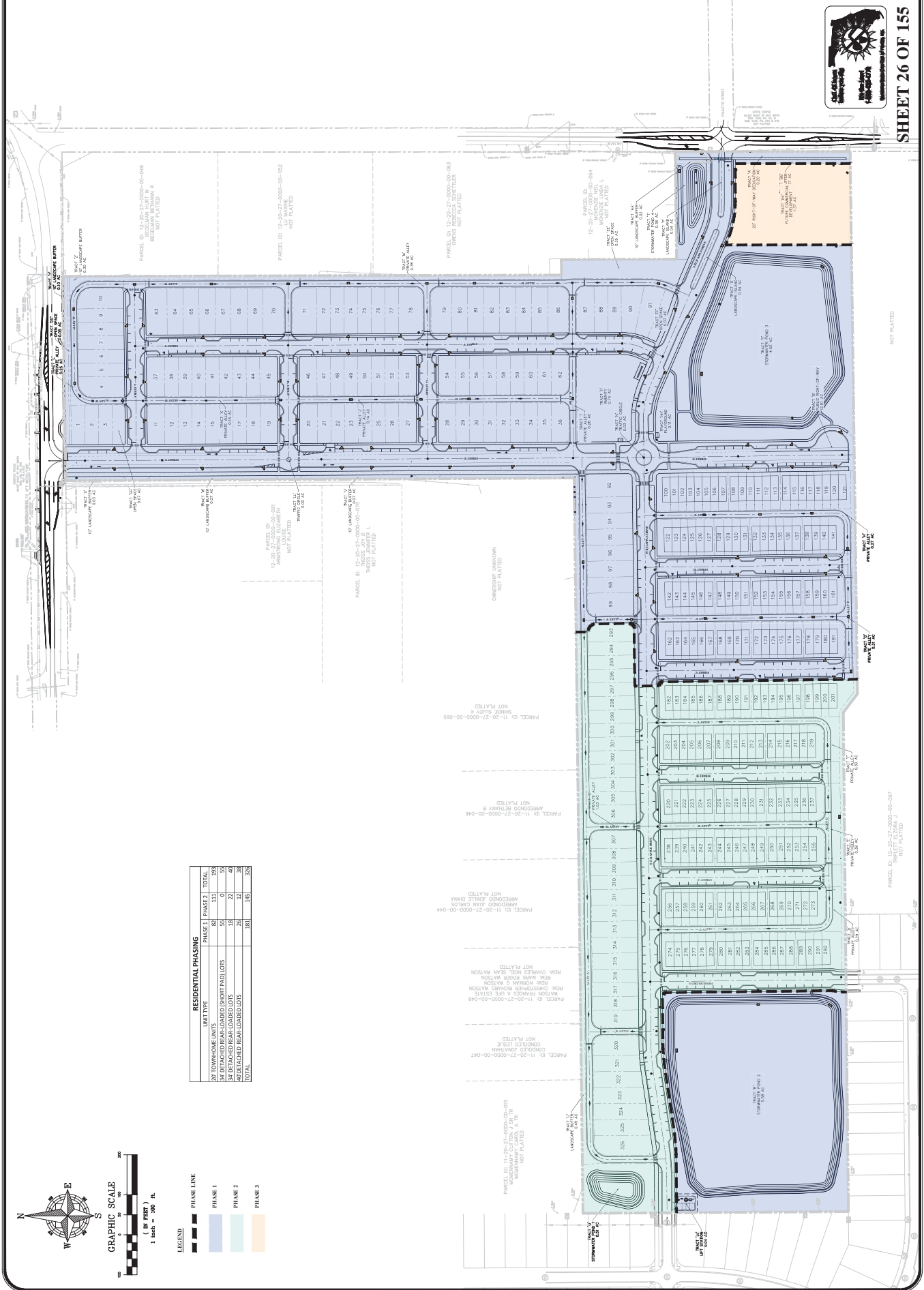


DATE:	4/7/2025
SHEET:	C4.8
CHECKED:	PUL-048
DESIGNED:	S. SERA-OIL
PROJECT:	100
DRAWN:	A. FRANOS
SCALE:	1" = 100'

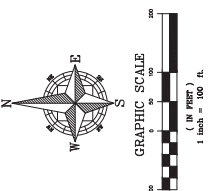
ONCH SOUTH SUBDIVISION
CONSTRUCTION SITE PLAN
PHASING PLAN
CITY OF APOKA, FLORIDA

APPLAN ENGINEERING LLC
CIVIL ENGINEERING | LAND PLANNING
APPLAN.COM • 407.960.5868

REV.	DATE	DESCRIPTION
01	03/07/23	ISSUED COMMENTS DATED 03/07/23
02	04/09/2025	ISSUED COMMENTS DATED 04/09/2025
BY		
025		



RESIDENTIAL PHASING			
UNIT TYPE	PHASE 1	PHASE 2	TOTAL
20' TOWNHOME UNITS	80	131	211
30' TOWNHOME UNITS	20	22	42
30' DETACHED REAR-LOADED LOTS	20	12	32
30' DETACHED REAR-LOADED LOTS	20	12	32
TOTAL	140	177	317



LEGEND	PHASE LINE
PHASE 1	[Blue line]
PHASE 2	[Orange line]
PHASE 3	[Yellow line]



SCALE	1" = 100'
PROJECT	PUL-048
SHEET	C4.9
DESIGNED:	S. SIERRA-GIL
CHECKED:	L. CLASSON
DRAWN:	A. FRANCIS
DATE:	4/7/2025

PHASING PLAN - PHASE 1
IMPROVEMENTS
CONSTRUCTION SITE PLAN
CONDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

CIVIL ENGINEERING | LAND PLANNING

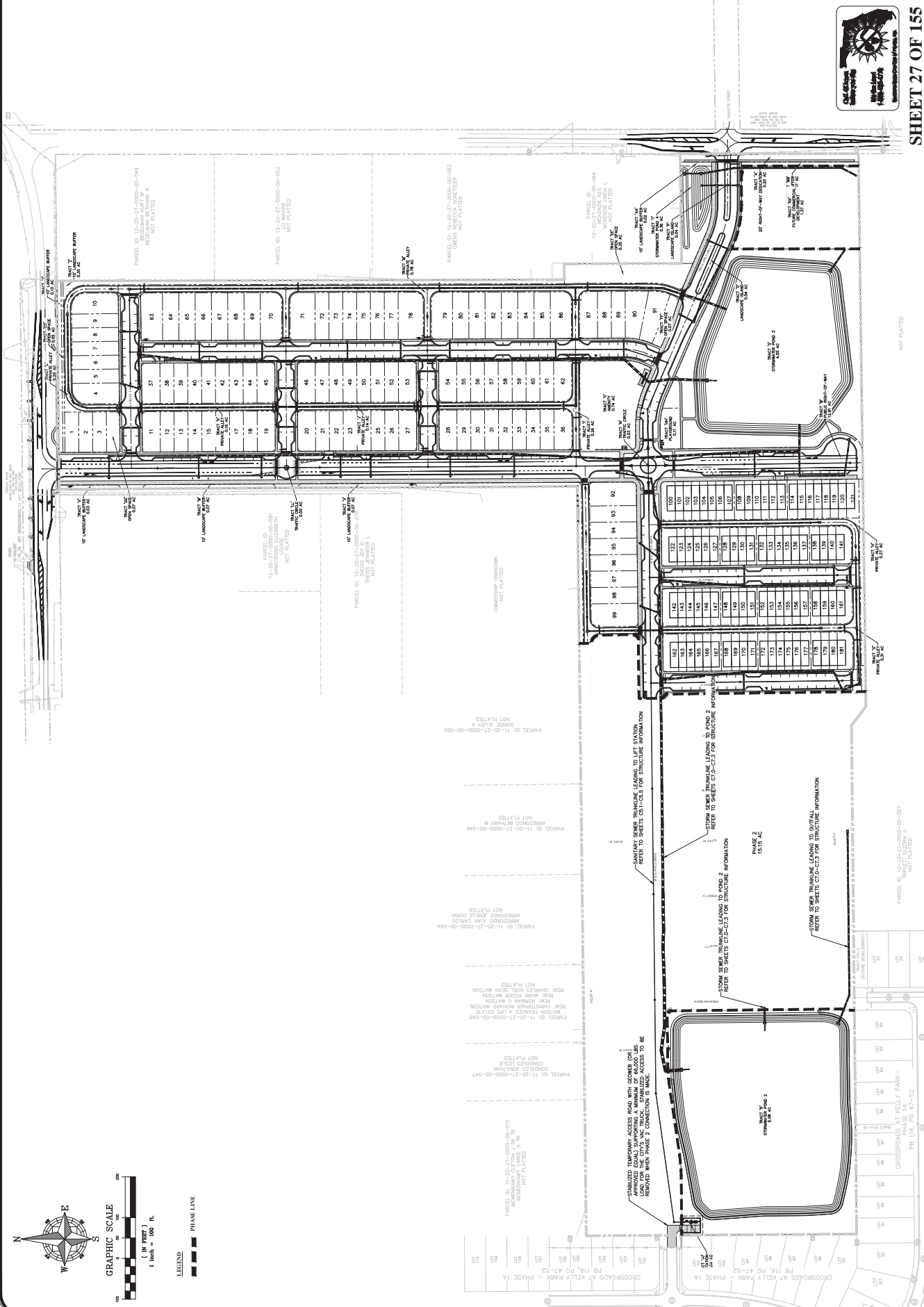
APPJAN ENGINEERING LLC.

APPJANENGINEERING.COM • 407.960.5868

2221 E. 15th AVE., SUITE 27, WILMINGTON, MAINE 04092-2727

WE PROVIDE ARCHITECTURAL, ENGINEERING, LAND-USE AND APPROPRIATION PLANNING, SURVEYING

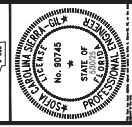
DATE	REMARKS	DATE	REMARKS
05/04/2020	50% OF MONTHLY COMMITMENTS DATED 04/29/2020	05/04/2020	50% OF MONTHLY COMMITMENTS DATED 04/29/2020
07/07/2020	SHAWA COMMITMENTS DATED 02/12/2020	07/07/2020	SHAWA COMMITMENTS DATED 02/12/2020
05/03/2020	NOISE	05/03/2020	NOISE
05/03/2020	NOISE	05/03/2020	NOISE



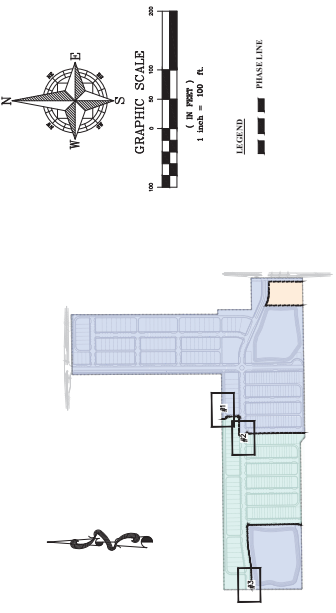
DATE:	4/7/2025
SHEET:	C4.10
CHECKED:	PUL-048
DESIGNED:	S. SIERRA-OL
PROJECT:	A. FRANCOIS
SCALE:	1" = 20'
DRAWN:	

PHASING DETAILS - GEOMETRY
CONSTRUCTION SITE PLAN
CITY OF APOPKA, FLORIDA
ONDICH SOUTH SUBDIVISION

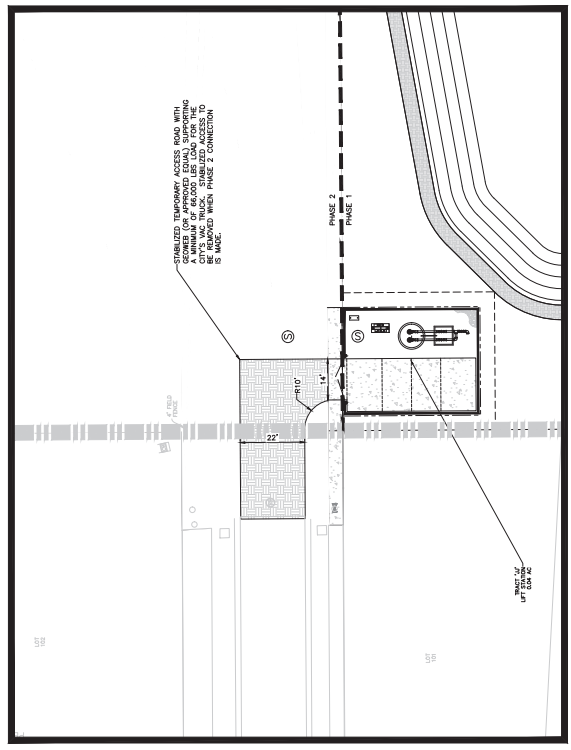
APP'N	NO. 80745
DATE	4/7/2025
PROJECT	CONSTRUCTION SITE PLAN
DESIGNED	S. SIERRA-OL
CHECKED	PUL-048
DATE	4/7/2025



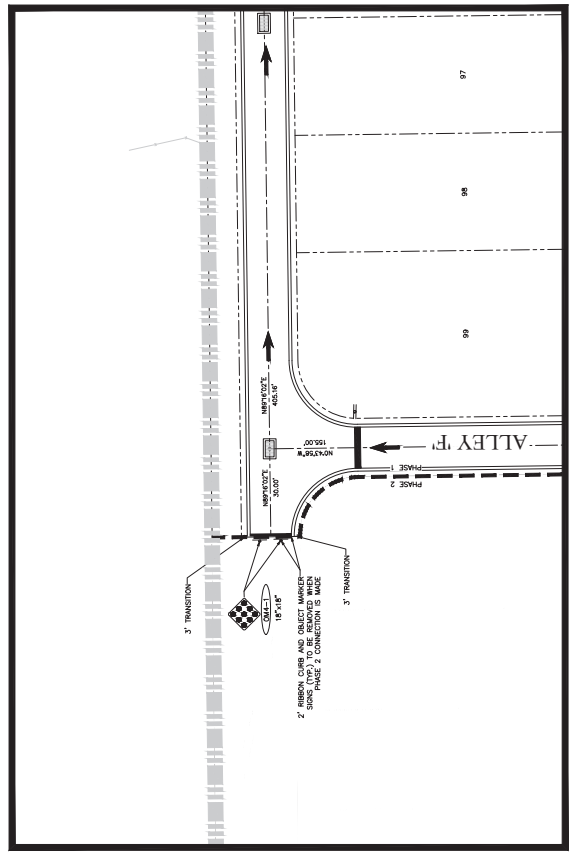
SHEET 28 OF 155



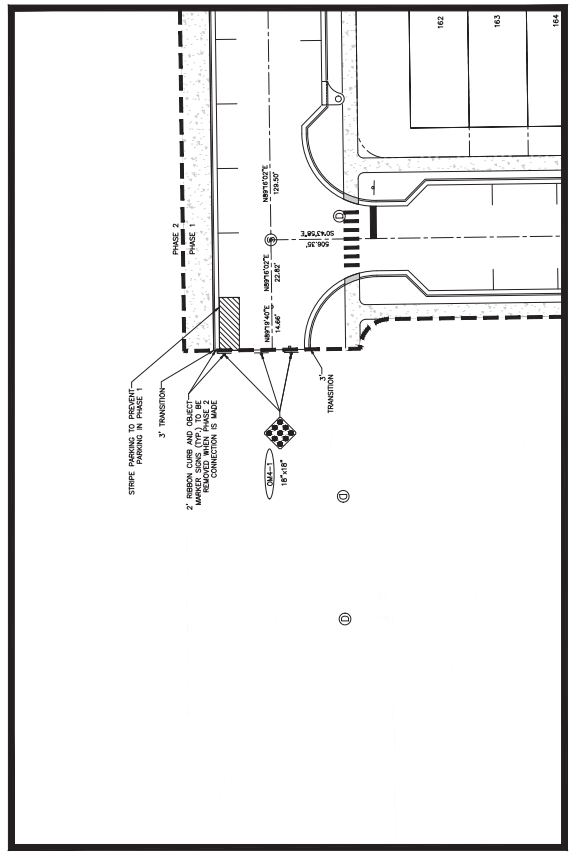
KEY MAP



PHASING DETAIL AREA #3
SCALE: 1" = 20'

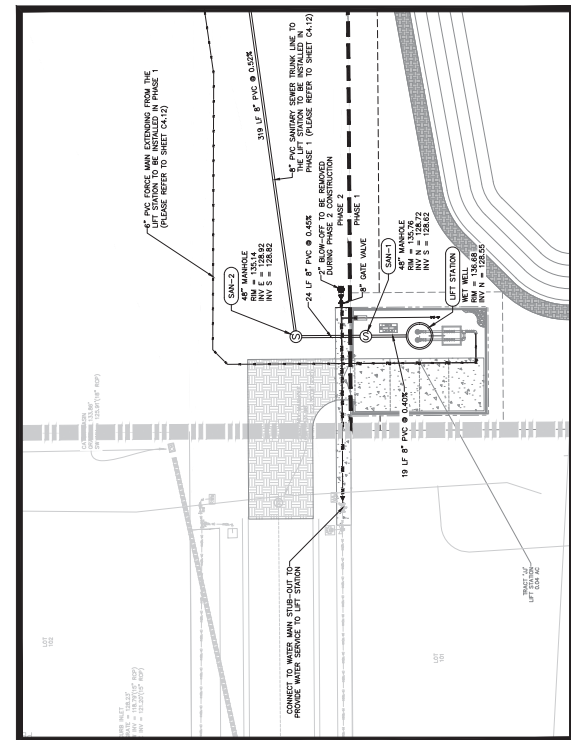


PHASING DETAIL AREA #1
SCALE: 1" = 20'

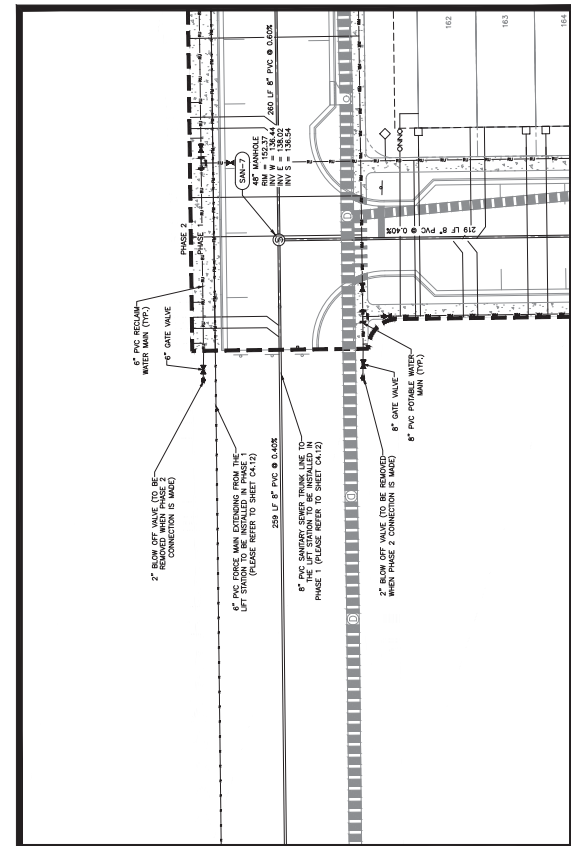


PHASING DETAIL AREA #2
SCALE: 1" = 20'

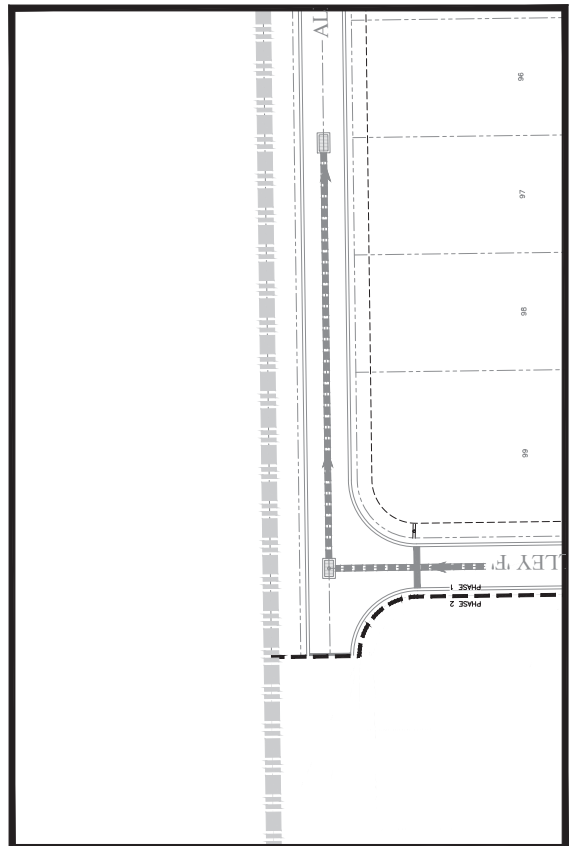
PHASING DETAIL AREA #3
SCALE: 1" = 20'



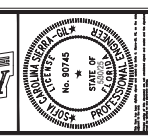
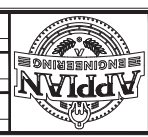
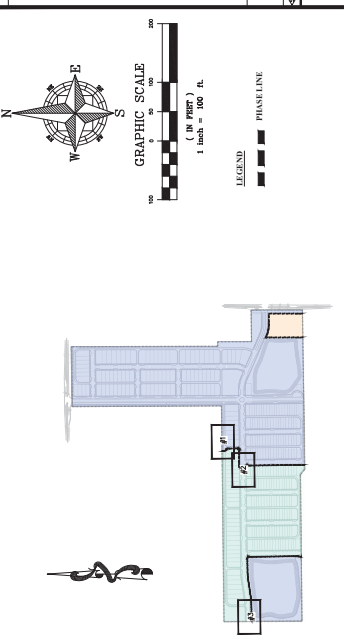
PHASING DETAIL AREA #2
SCALE: 1" = 20'



PHASING DETAIL AREA #1
SCALE: 1" = 20'



KEY MAP



DATE:	4/8/2025
SHEET:	C4.11
CHECKED:	PUL-048
L. CLASSON	
DESIGNED:	S. SIERRA-OL
PROJECT:	20
DRAWN:	A. FRANCOIS
SCALE:	1" = 20'

ONDICH SOUTH SUBDIVISION
CONSTRUCTION SITE PLAN
PHASING DETAILS - UTILITIES
CITY OF APOPKA, FLORIDA

APPLAN ENGINEERING, L.L.C.
APPLANENGINEERING.COM • 407.960.5883
CIVIL ENGINEERING / LAND PLANNING

REV:	DATE:	DESCRIPTION:
02	04/25/25	ISSUED COMMENTS DATED 04/25/2025
01	03/07/25	ISSUED COMMENTS DATED 03/07/2025
BY:		
525		



SCALE	1" = 50'
PROJECT	UL-048
SHEET	C4.12
DESIGNED:	S. SIERRA-GIL
CHECKED:	L. CLASSON
DATE:	4/8/2025

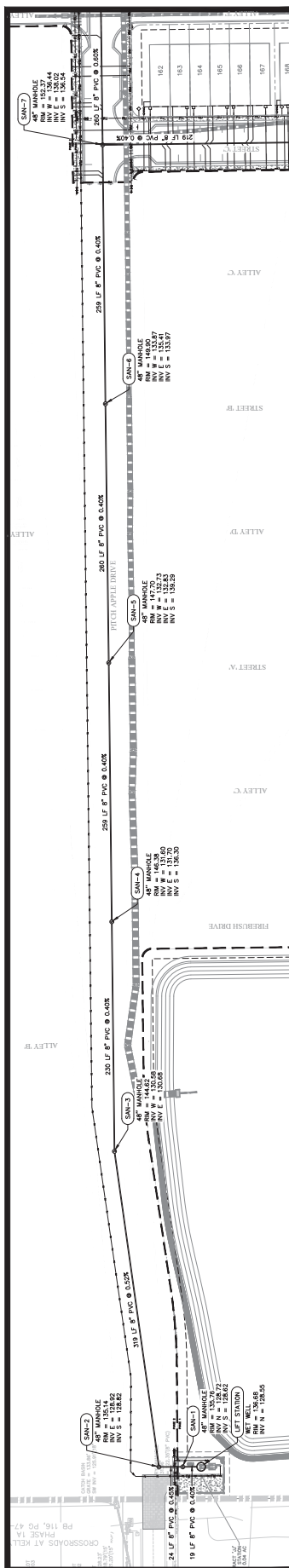
PHASING DETAILS - UTILITIES
CONSTRUCTION SITE PLAN
ONDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

CIVIL ENGINEERING | LAND PLANNING

APPIAN ENGINEERING LLC.

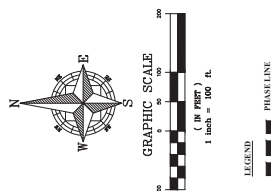
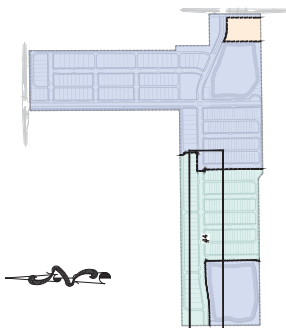
APPIANFL.COM • 407.960.5686

2221 LAM BLVD., SUITE 27, WESTON, FLORIDA 33390

[illegible]

PHASING DETAIL AREA #4

KEY MAP





DATE:	5/14/2025	
CHECKED:	C4.13	
L-CLASSON	SHEET	
S. SIERRA-GIL	PUL-048	
DESIGNED:	PROJECT	
A. FRANCIS	1" = 20'	
DRAWN:	SCALE	

PHASING DETAILS - PAVING &
GRADING
CONSTRUCTION SITE PLAN

ONDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

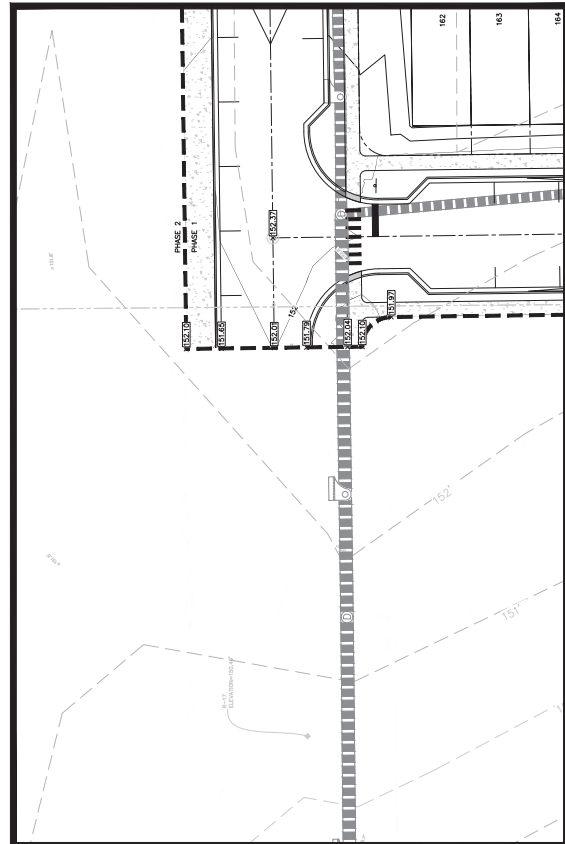
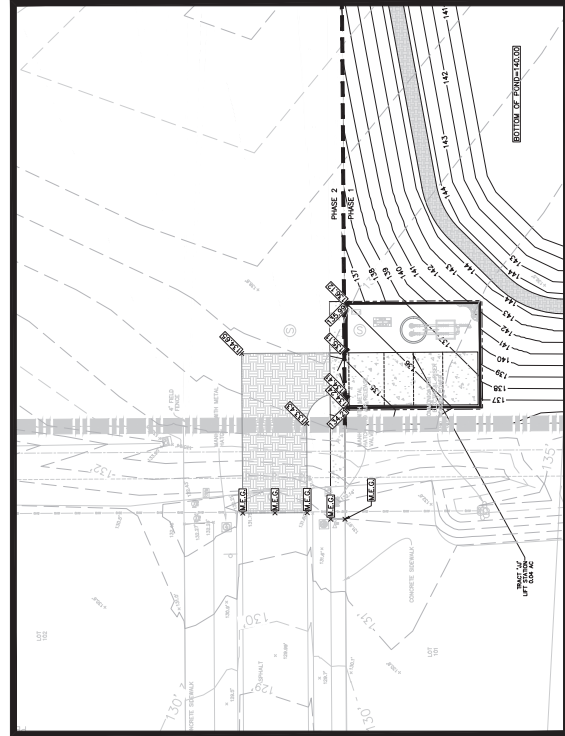
CIVIL ENGINEERING | LAND PLANNING

APPIAN ENGINEERING LLC.

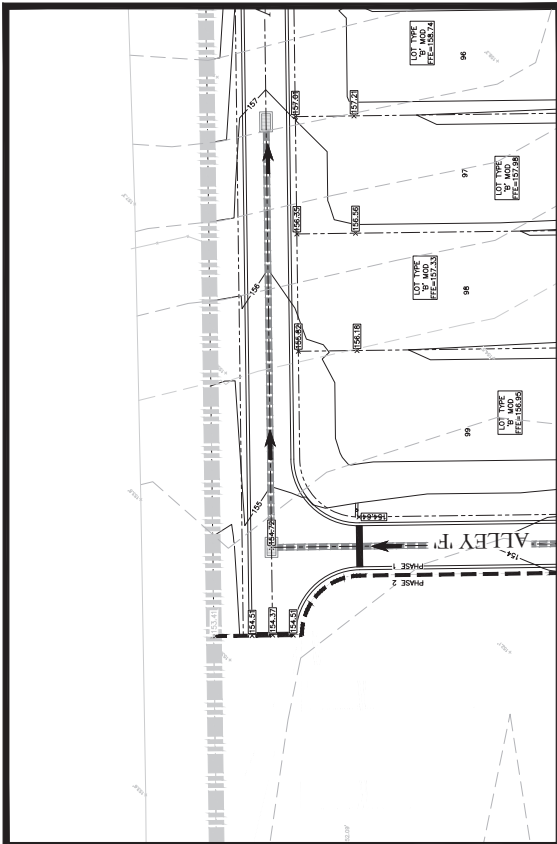
APPIANFL.COM • 407.960.5668

22211 LEE ROAD, SUITE 27, WESTON, FLORIDA 32793

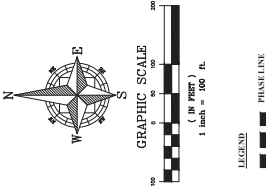
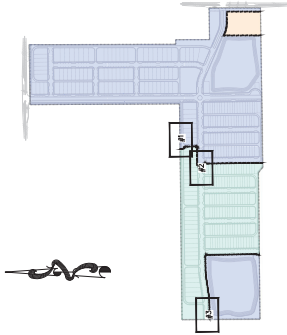
10125 NW 15TH AVE. #100, MIAMI, FL 33187

[illegible]

PHASING DETAIL AREA #1



KEY MAP

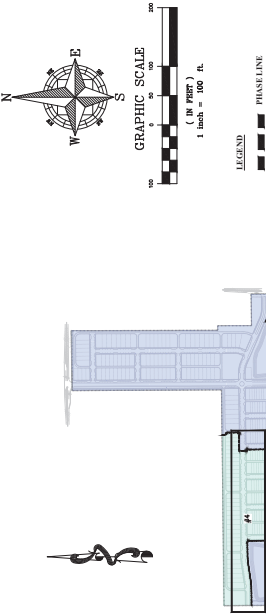
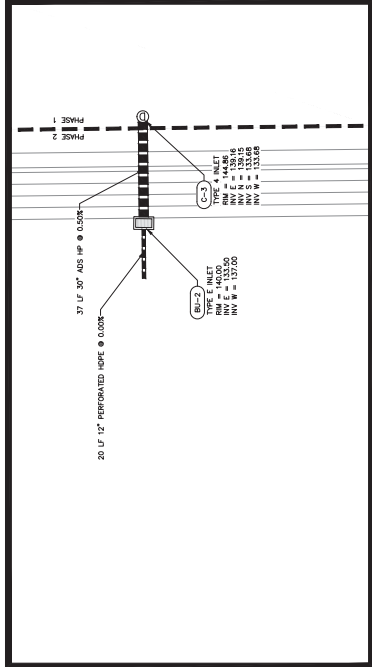
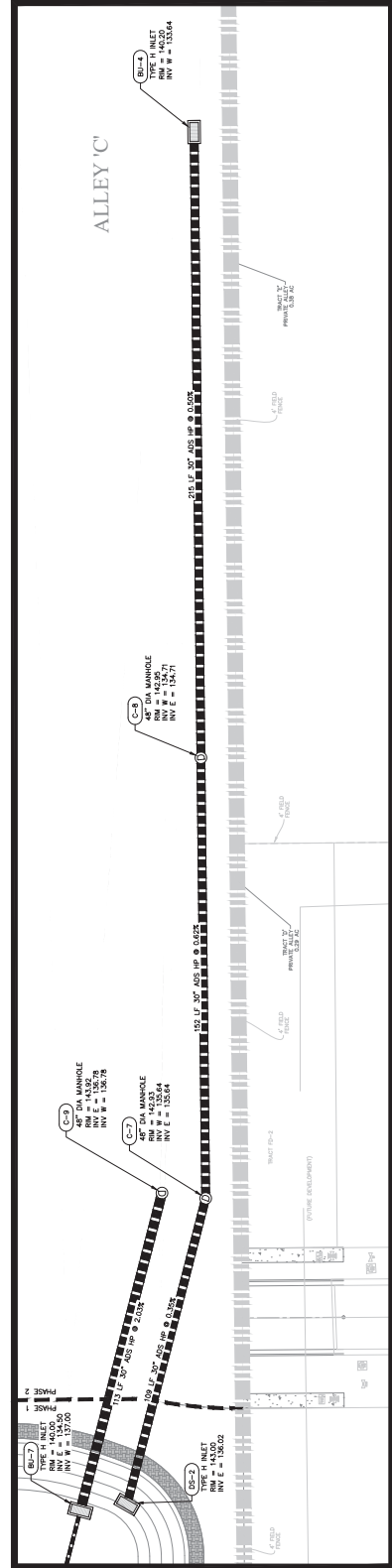
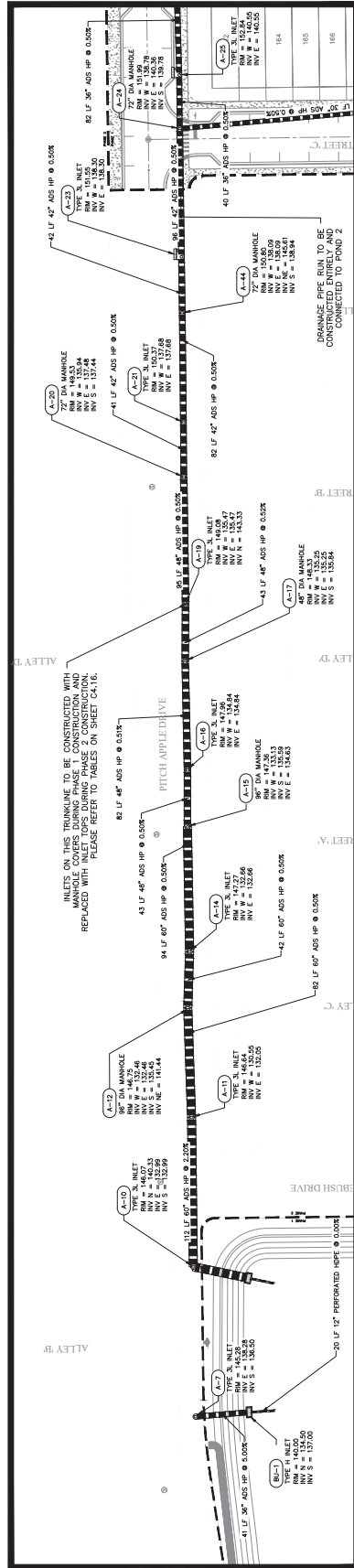




SCALE	1" = 40'
PROJECT	PUL-048
SHEET	C4.15
DRAWN:	A. FRANCIS
DESIGNED:	S. SIERRA-GIL
CHECKED:	L. CLASSON
DATE:	5/14/2025

PHASING DETAILS - DRAINAGE
CONSTRUCTION SITE PLAN

CIVIL ENGINEERING | LAND PLANNING
APPJIAN ENGINEERING LLC
APPJIANFL.COM • 407.960.5868

[illegible]



SCALE	N.T.S.
DRAWN	A. FRANCOIS
DESIGNED	S. SIERRA-OL
PROJECT	PUL-048
CHECKED	L. CLASSON
DATE:	4/7/2025

ONDICH SOUTH SUBDIVISION
CONSTRUCTION SITE PLAN
PHASING PLAN -
CITY OF APOPKA, FLORIDA

APPLAN ENGINEERING L.L.C.
4001 LAW BLVD., SUITE 200, WEST PALM BEACH, FLORIDA 33411
APPLAN1.COM • 407.960.5868

CIVIL ENGINEERING | LAND PLANNING

REV.	DATE	DESCRIPTION
01	03/07/25	ISSUED FOR PERMIT
02	03/07/25	ISSUED FOR PERMIT
03	03/07/25	ISSUED FOR PERMIT
04	03/07/25	ISSUED FOR PERMIT
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98	03/07/25	ISSUED FOR PERMIT
99	03/07/25	ISSUED FOR PERMIT
100	03/07/25	ISSUED FOR PERMIT

- NOTES:
1. PIPE RUNS BETWEEN STRUCTURES TO BE INSTALLED IN PHASE 1 ARE TO BE INSTALLED WITH PHASE 1.
 2. REFER TO THE UTILITY PLANS DRAINING ON SHEET CUDFORBIM AND INVERT ELEVATIONS.

- NOTES:
1. PIPE RUNS BETWEEN STRUCTURES TO BE INSTALLED IN PHASE 1 ARE TO BE INSTALLED WITH PHASE 1.
 2. REFER TO THE UTILITY PLANS DRAINING ON SHEET CUDFORBIM AND INVERT ELEVATIONS.

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- NOTES:
1. PIPE RUNS BETWEEN STRUCTURES TO BE INSTALLED IN PHASE 1 ARE TO BE INSTALLED WITH PHASE 1.
 2. REFER TO THE UTILITY PLANS DRAINING ON SHEET CUDFORBIM AND INVERT ELEVATIONS.

NAME	INVERT ELEVATION
A-01	10.0
A-02	10.0
A-03	10.0
A-04	10.0
A-05	10.0
A-06	10.0
A-07	10.0
A-08	10.0
A-09	10.0
A-10	10.0
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A-13	10.0
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A-99	10.0
A-100	10.0

NAME	INVERT ELEVATION
A-01	10.0
A-02	10.0
A-03	10.0
A-04	10.0
A-05	10.0
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A-100	10.0

NAME	INVERT ELEVATION
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A-02	10.0
A-03	10.0
A-04	10.0
A-05	10.0
A-06	10.0
A-07	10.0
A-08	10.0
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A-10	10.0
A-11	10.0
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A-55	10.0



SCALE	= 100'	PROJECT	UL-048	SHEET	C4.17
DRAWN:	A. FRANCIS	DESIGNED:	S. SIERRA-GIL	CHECKED:	L. CLASSON
DATE: 4/2/2025					

FIRE TRUCK ROUTE PLAN
CONSTRUCTION SITE PLAN
CNDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

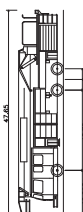
CIVIL ENGINEERING | LAND PLANNING

APIAN ENGINEERING LLC.

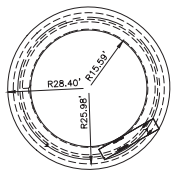
APIANFL.COM • 407.960.5868

2221 E. 15th AVE., SUITE 270, WEST PALM BEACH, FL 33411
TEL: 407.960.5868 FAX: 407.960.5868

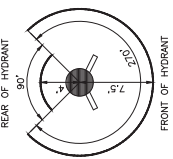
DATE	DESCRIPTION	R#
06/14/25	CITY OF APOPKA COMMENTS DATED 04/28/2025	SOS
03/07/23	PANAMA COMMENTS DATED 02/21/2023	



Rosenbauer 100 ft MM Cobra	47,650ft
Overall Length	8,160ft
Overall Width	10,460ft
Overall Body Height	0,890ft
Min Body Ground Clearance	8,160ft
Track Width	6,000
Lock-to-lock time	46.00s
Max Wheel Angle	

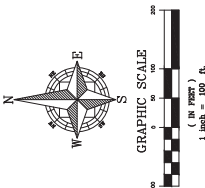


TURNING RADIUS SKETCH

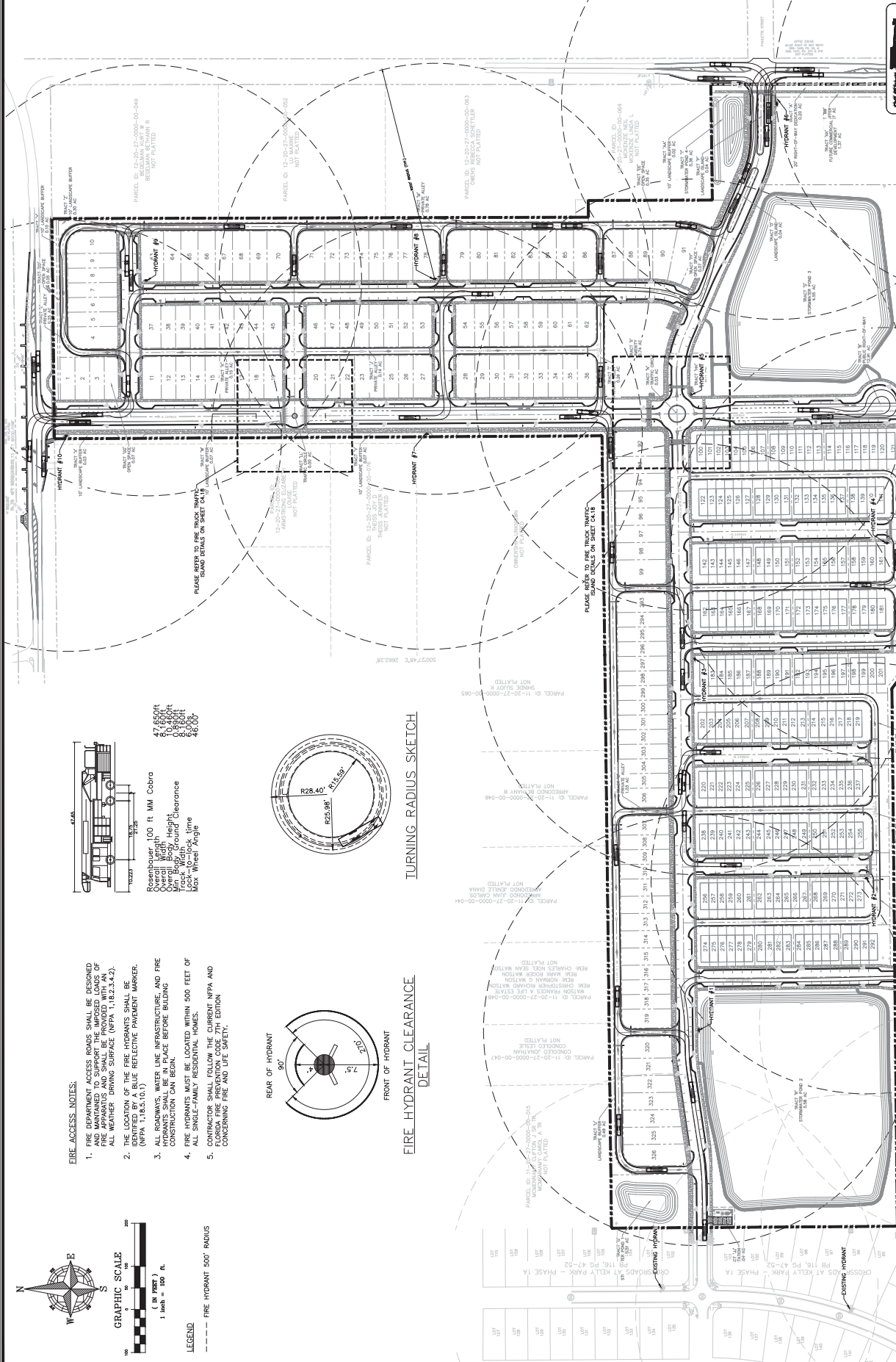


FIRE HYDRANT CLEARANCE
DETAIL

- FIRE ACCESS NOTES:**
1. FIRE DEPARTMENT ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE FIGHTING EQUIPMENT AND TRUCKS.
 2. ALL WEATHER DRIVING SURFACE (NPA 1,18.2.3.4.2).
 3. THE LOCATION OF THE FIRE HYDRANTS SHALL BE INDICATED ON THE SITE PLAN DUE TO REFLECTIVE PAVEMENT MARKER. (NPA 1,18.3.10.1)
 4. ALL ROADWAYS, WATER LINE INFRASTRUCTURE, AND FIRE HYDRANTS SHALL BE IN PLACE BEFORE BUILDING CONSTRUCTION CAN BEGIN.
 5. FIRE HYDRANTS MUST BE LOCATED WITHIN 500 FEET OF ALL SINGLE-FAMILY RESIDENTIAL HOMES.
 6. CONTRACTOR SHALL FOLLOW THE CURRENT NPA AND FLORIDA FIRE PREVENTION CODE 7TH EDITION



LEGEND
--- FIRE HYDRANT 500' RADIUS



SHEET 36 OF 155

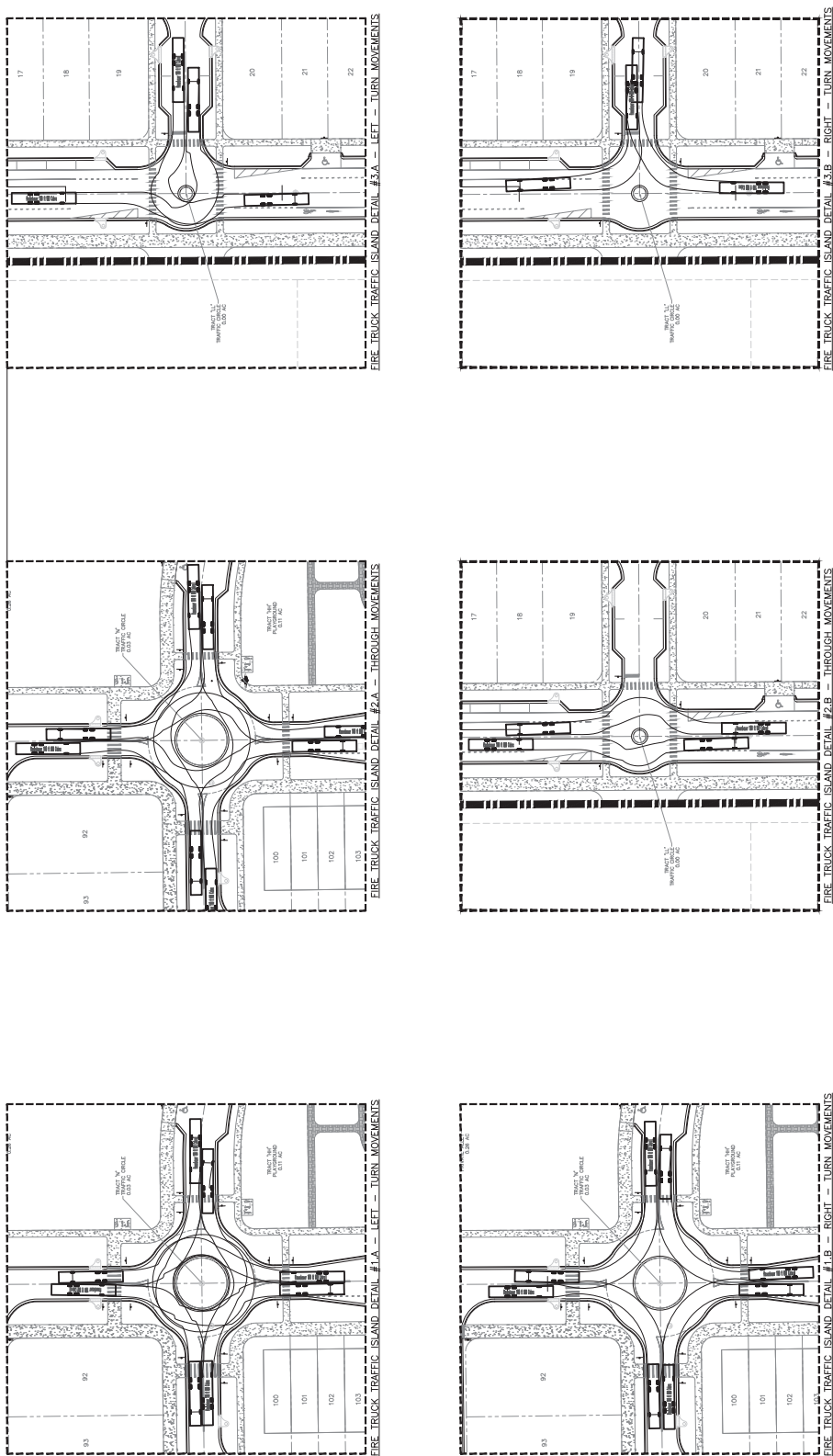


DATE:	4/7/2025
SHEET:	C4.18
CHECKED:	L. CLARSON
PROJECT:	PUL-048
DESIGNED:	S. SIERRA-OL
DRAWN:	A. FRANCOIS
SCALE:	1" = 40'

FIRE TRUCK ROUTE DETAILS
CONSTRUCTION SITE PLAN
CITY OF APOPKA, FLORIDA

CIVIL ENGINEERING | LAND PLANNING
APPIANENGINEERING.LLC
APPIANFL.COM • 407.960.5868
2025 L&P, REG. NO. 22,799,000, 12/15/2018, 12/15/2025

REV.	DATE	DESCRIPTION
1	03/07/23	ISSUED COMMENTS DATED 03/07/2023
2	03/07/23	ISSUED COMMENTS DATED 03/07/2023
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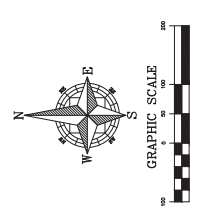
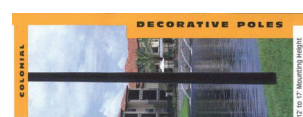


DATE:	1/30/2025
SHEET:	C4.19
CHECKED:	PUL-048
DESIGNED:	S. SERA-OL
PROJECT:	1" = 100'
DRAWN:	A. FRANCO

ONCH SOUTH SUBDIVISION
CONSTRUCTION SITE PLAN
LIGHTING PLAN
CITY OF APOKA, FLORIDA

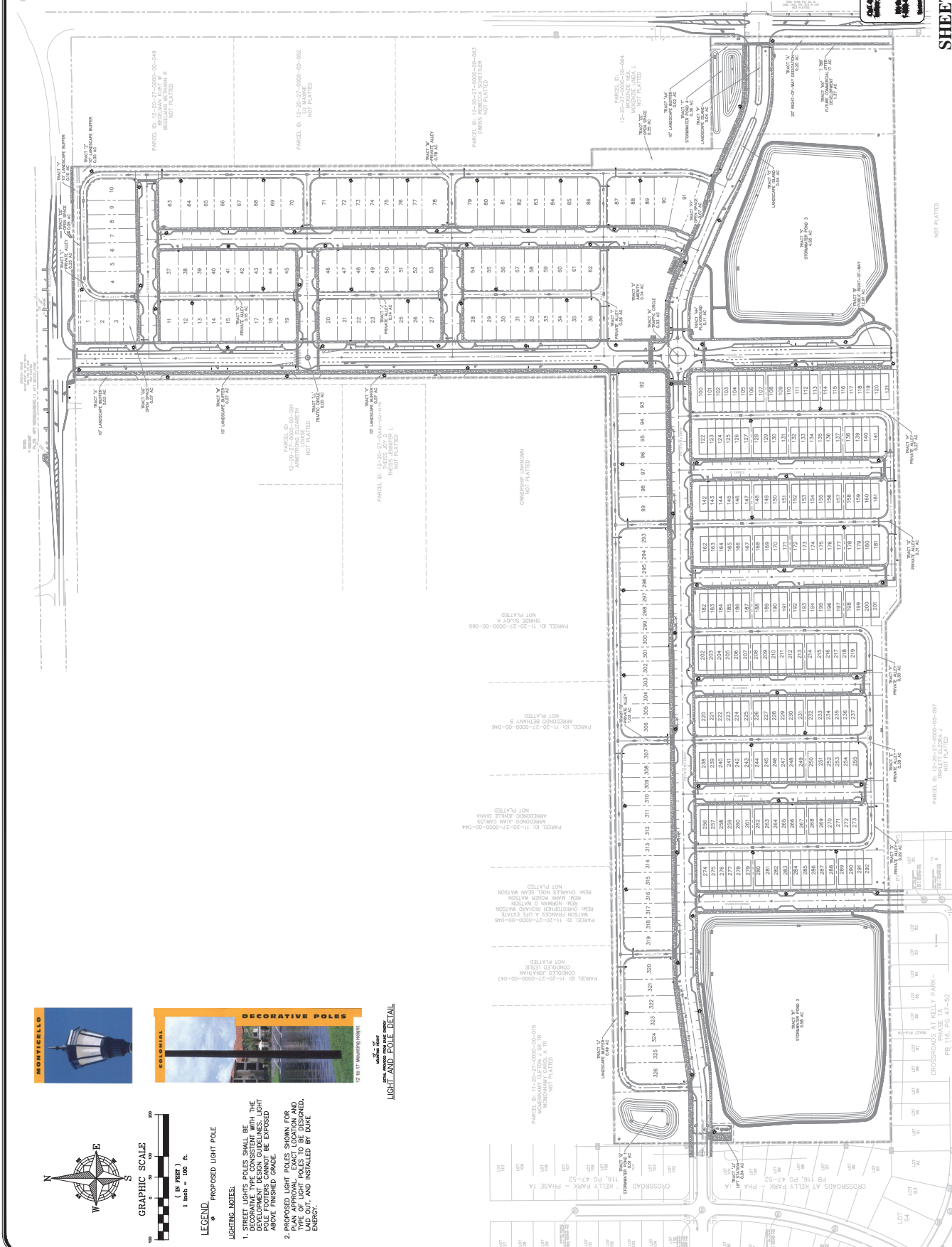
APPLAN ENGINEERING, INC.
CITY ENGINEERING & LAND PLANNING
APPLAN.COM • 407.960.5683

REV.	DATE	DESCRIPTION
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02	04/25/25	CITY OF APOKA COMMENTS DATED 04/25/2025
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- LEGEND
- PROPOSED LIGHT POLE
- NOTING NOTES:
1. PROPOSED LIGHT POLES SHALL BE DEVELOPMENT DESIGN GUIDELINES. LIGHT POLES SHALL BE EXPOSED ABOVE FINISHED GRADE.
 2. PROPOSED LIGHT POLES SHOWN FOR PLAN APPROVAL. EXACT LOCATION AND LAYOUT, AND INSTALLED BY OWNER.

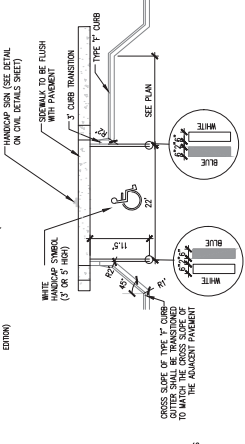
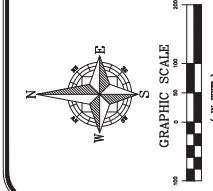
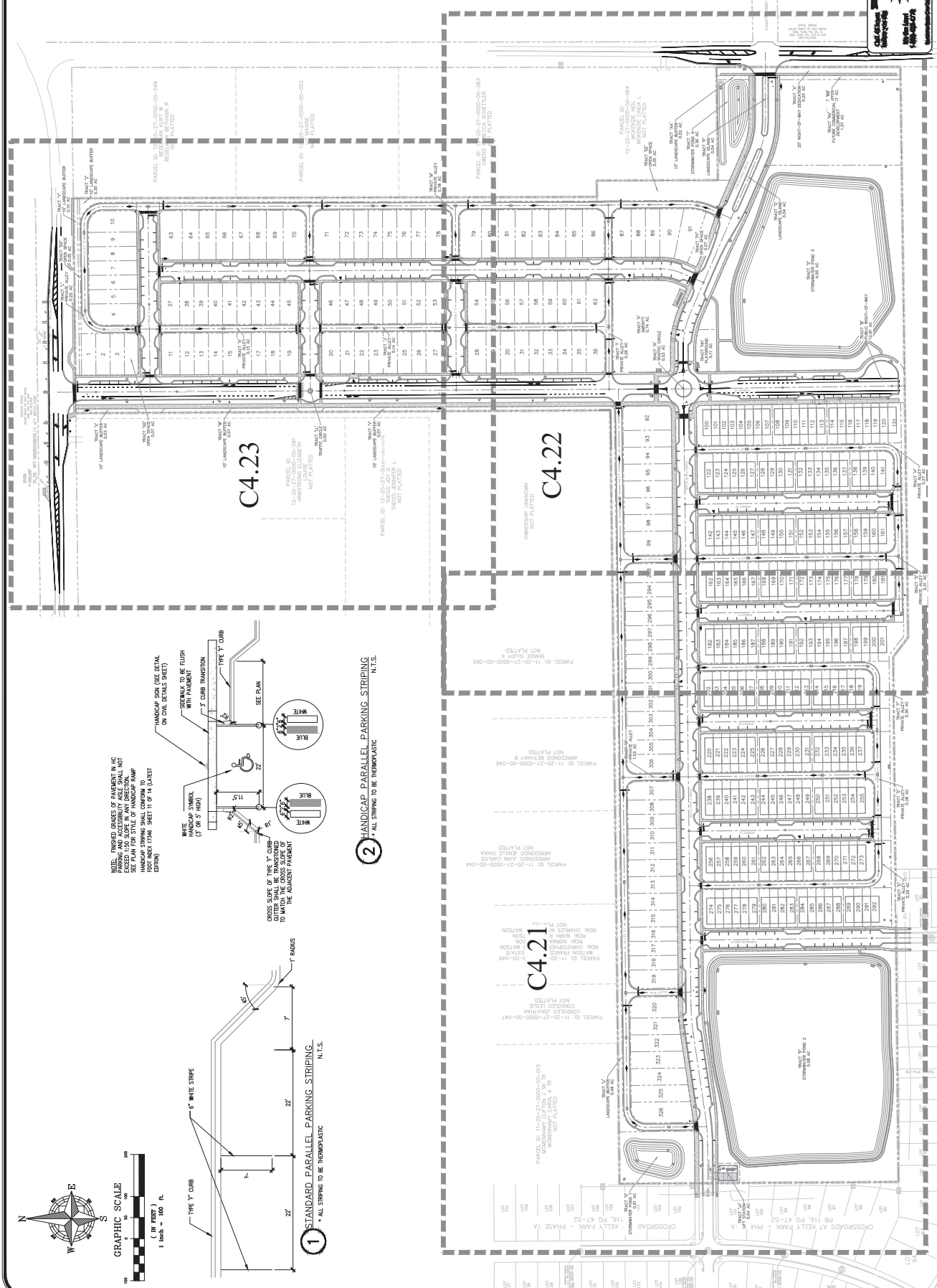
LIGHT AND POLE DETAIL



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DATE: 5/30/2025	SHEET: C4.20	SCALE: 1" = 100'	DRAWN: A. FRANCOIS
CHECKED: L. CLASSEN	PROJECT: PUL-048	DESIGNED: S. SERA-OIL	OVERALL SIGNAGE & STRIPING PLAN
ONDICH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA			
APPLAN ENGINEERING LLC APPLANFL.COM • 407.960.5883			
CIVIL ENGINEERING LAND PLANNING			
REV: 02/23	DATE: 02/23/2025	DESCRIPTION: LAND COMMENTS DATED 02/23/2025	BY: 525

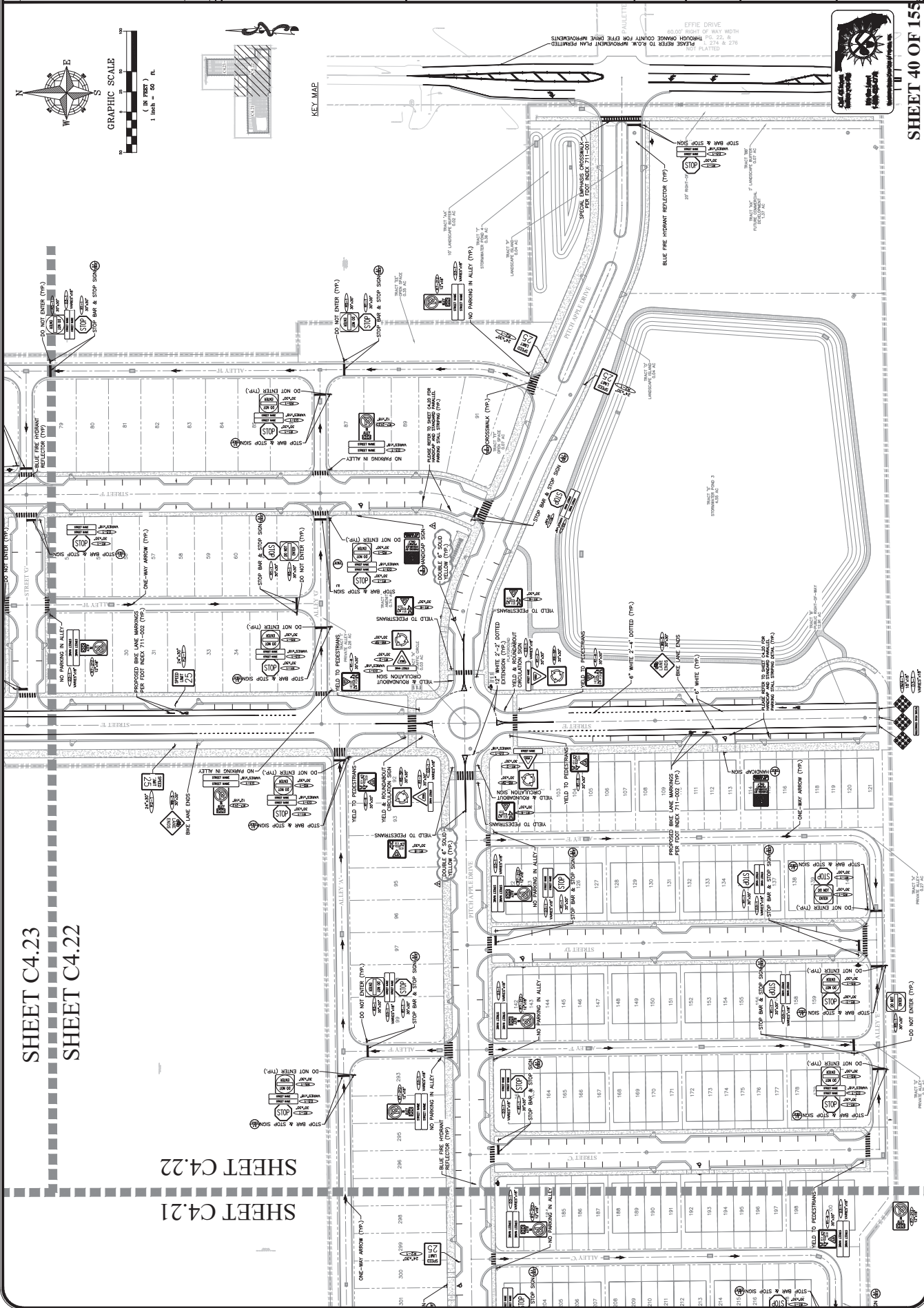


1 STANDARD PARALLEL PARKING STRIPING
• ALL STRIPING TO BE THERMOPLASTIC
N.T.S.

2 HANDICAP PARALLEL PARKING STRIPING
• ALL STRIPING TO BE THERMOPLASTIC
N.T.S.

1 STANDARD PARALLEL PARKING STRIPING
• ALL STRIPING TO BE THERMOPLASTIC
N.T.S.

2 HANDICAP PARALLEL PARKING STRIPING
• ALL STRIPING TO BE THERMOPLASTIC
N.T.S.

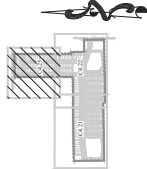
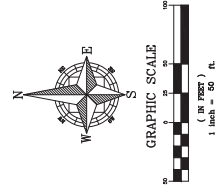




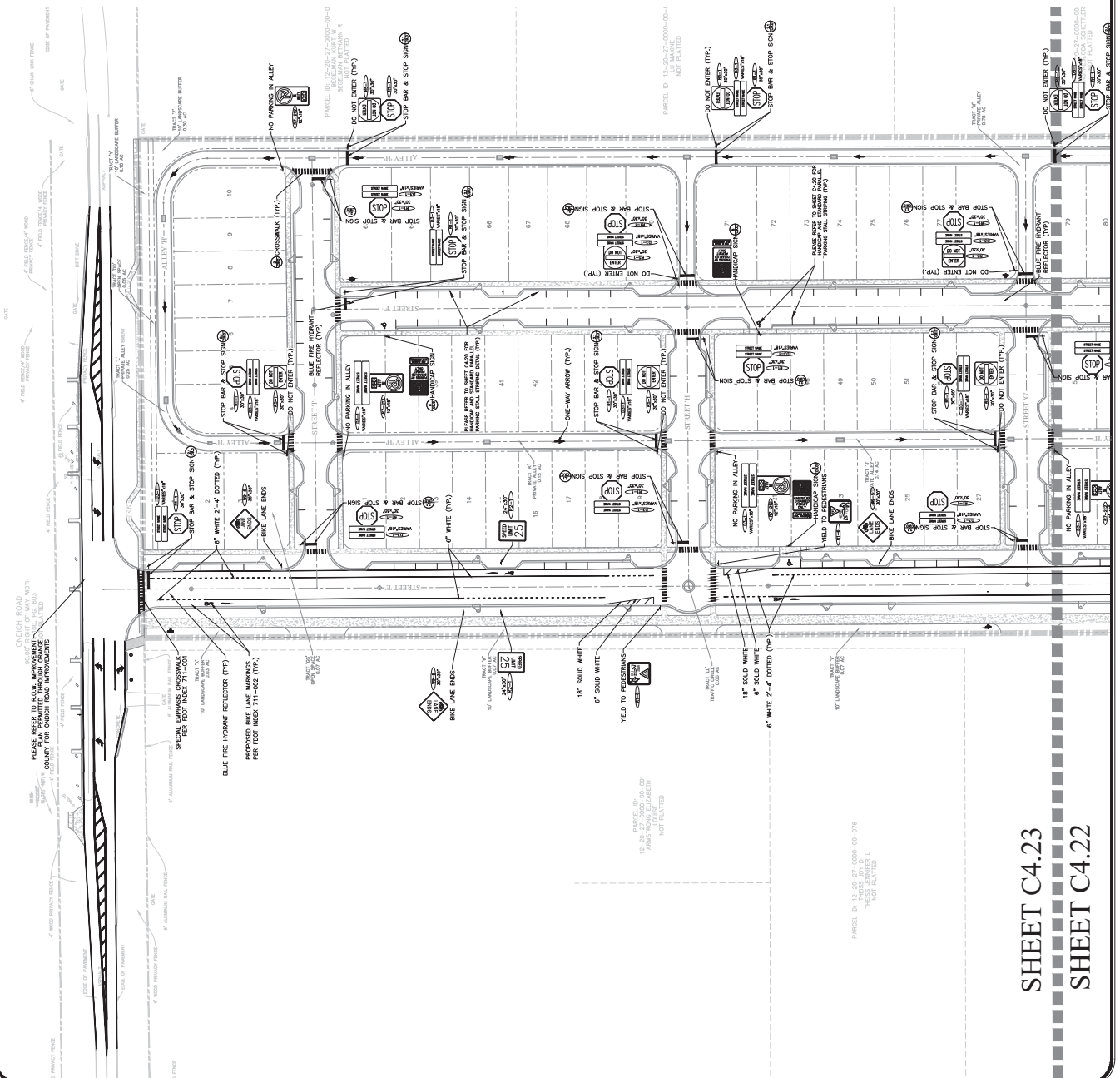
SCALE	"1" = 50'	PROJECT	PUL-048	SHEET	C4.23
DRAWN:	A. FRANCIS	DESIGNED:	S. SIERRA-GIL	CHECKED:	L. CLASSON
DATE:		5/30/2025			

SIGNAGE & STRIPING PLAN -
NORTH
CONSTRUCTION SITE PLAN

CIVIL ENGINEERING | LAND PLANNING
APPJIAN ENGINEERING LLC
APPJIANFL.COM • 407.960.5868

[illegible]

KEY MAP





SCALE	1" = 50'
PROJECT	PUL-048
SHEET	C5.2
DRAWN:	A. FRANCIS
DESIGNED:	S. SIERRA-GIL
CHECKED:	L. CLASSON
DATE:	5/30/2025

UTILITY PLAN - WEST
CONSTRUCTION SITE PLAN
ONDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

CIVIL ENGINEERING | LAND PLANNING

APPIAN ENGINEERING LLC.

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2021 Lee Road, Suite 27, Weston, FL, 33091, 305.378.2729

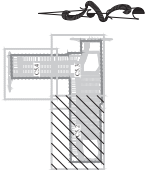
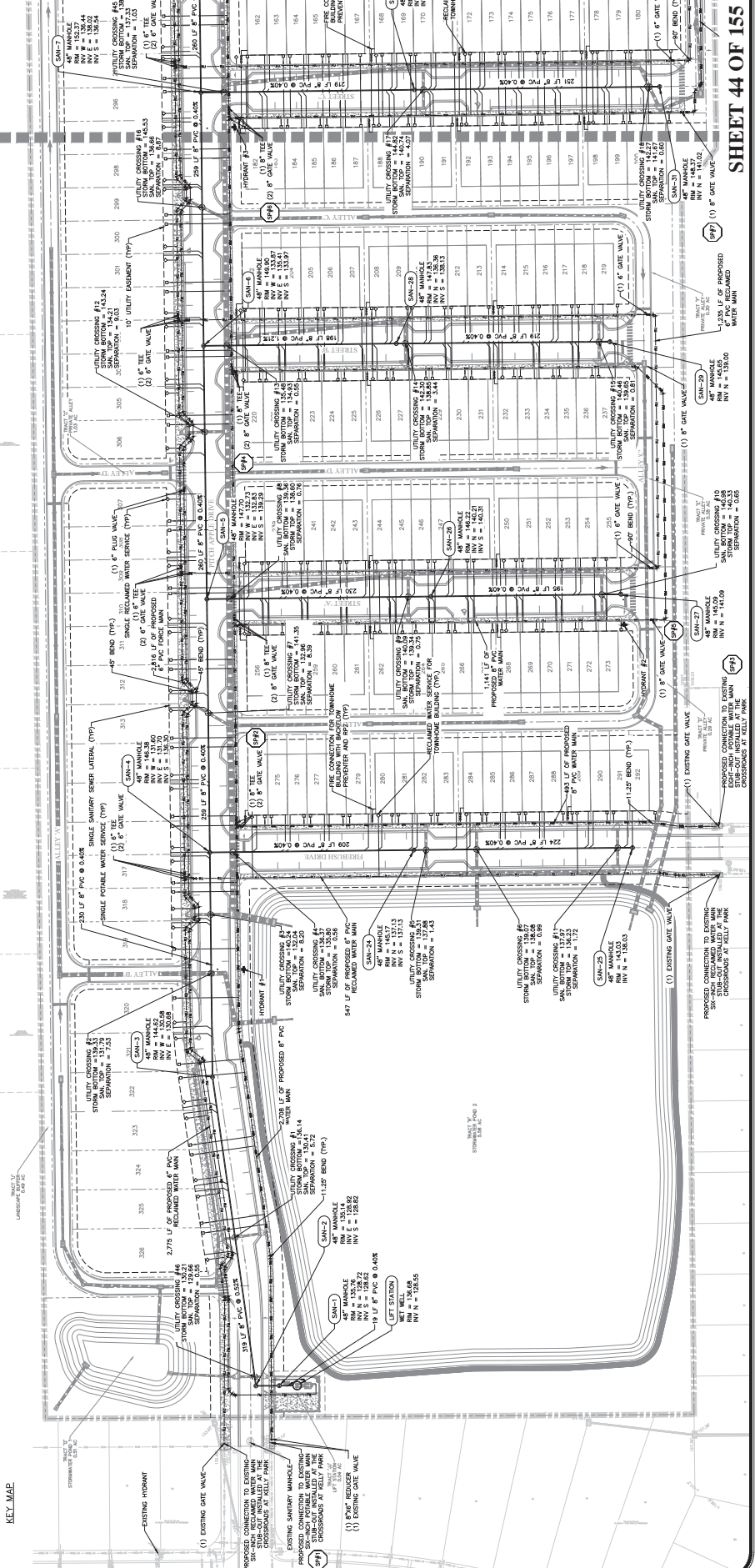
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REV.	DATE	DESCRIPTION
V	06/14/25	CITY OF APOPKA COMMENTS DATED 06/28/2025
V		
V		
V		
V		
V		
V		
V		
V		SFMMW COMMENTS DATED 02/27/2025
V	03/07/25	

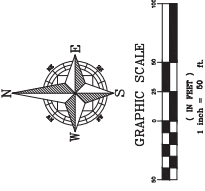
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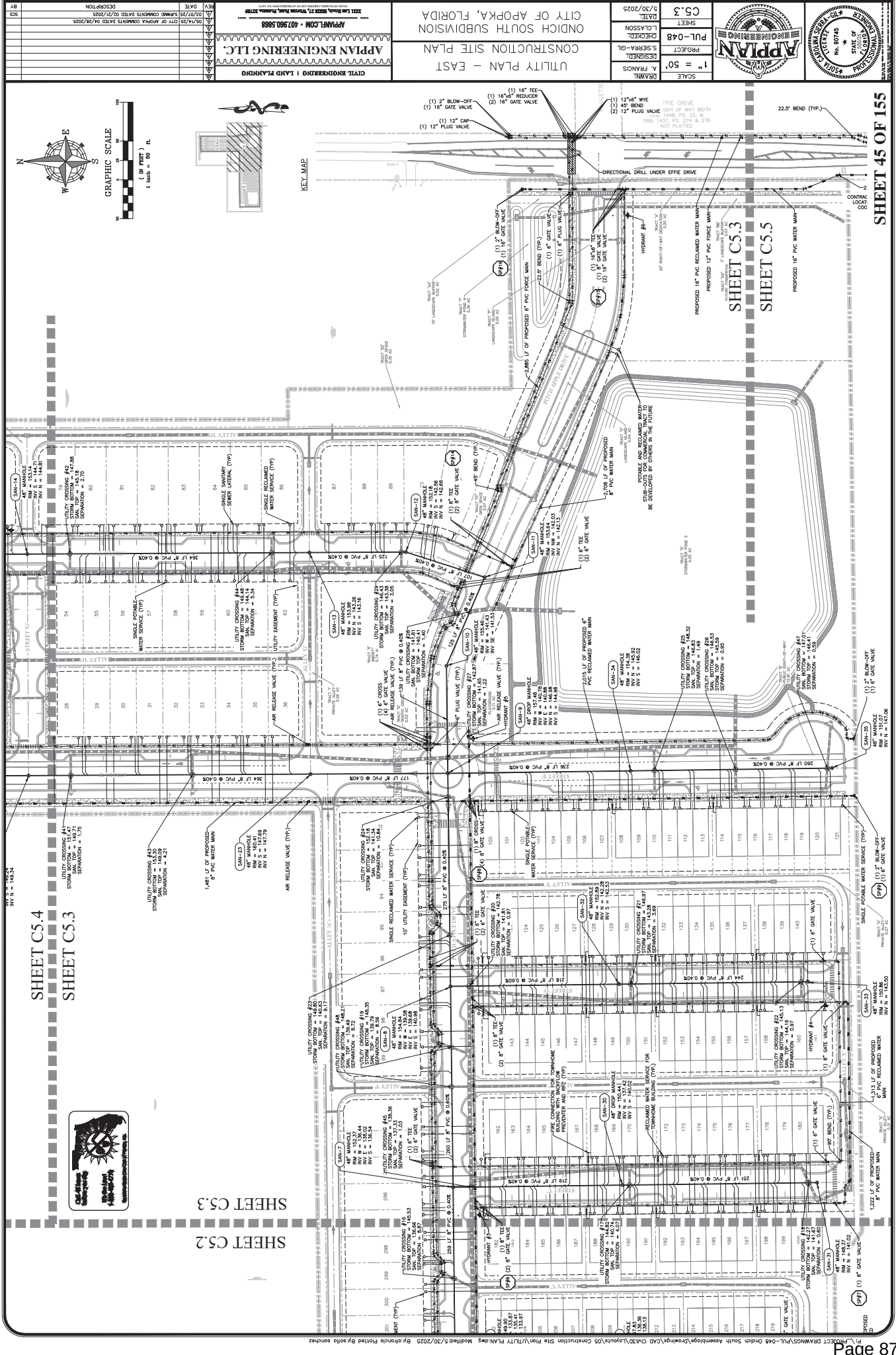
SHEET C5.2

SHEET C5.3



KEY MAP





SHEET C5.2

SHEET C5.3

SHEET C5.4

SHEET C5.3

SHEET 45 OF 155

UTILITY PLAN - EAST
CONSTRUCTION SITE PLAN
CITY OF APOPKA, FLORIDA

APPLAN ENGINEERING LLC
CIVIL ENGINEERING / LAND PLANNING
APPLAN.COM • 407.960.5883

DATE: 5/30/2025
SHEET: C5.3
CHECKED: PUL-048
PROJECT: S. SIERRA-01
DESIGNED: A. FRANCO
DRAWN: A. FRANCO



SHEET C5.4
SHEET C5.3



SHEET 46 OF 155

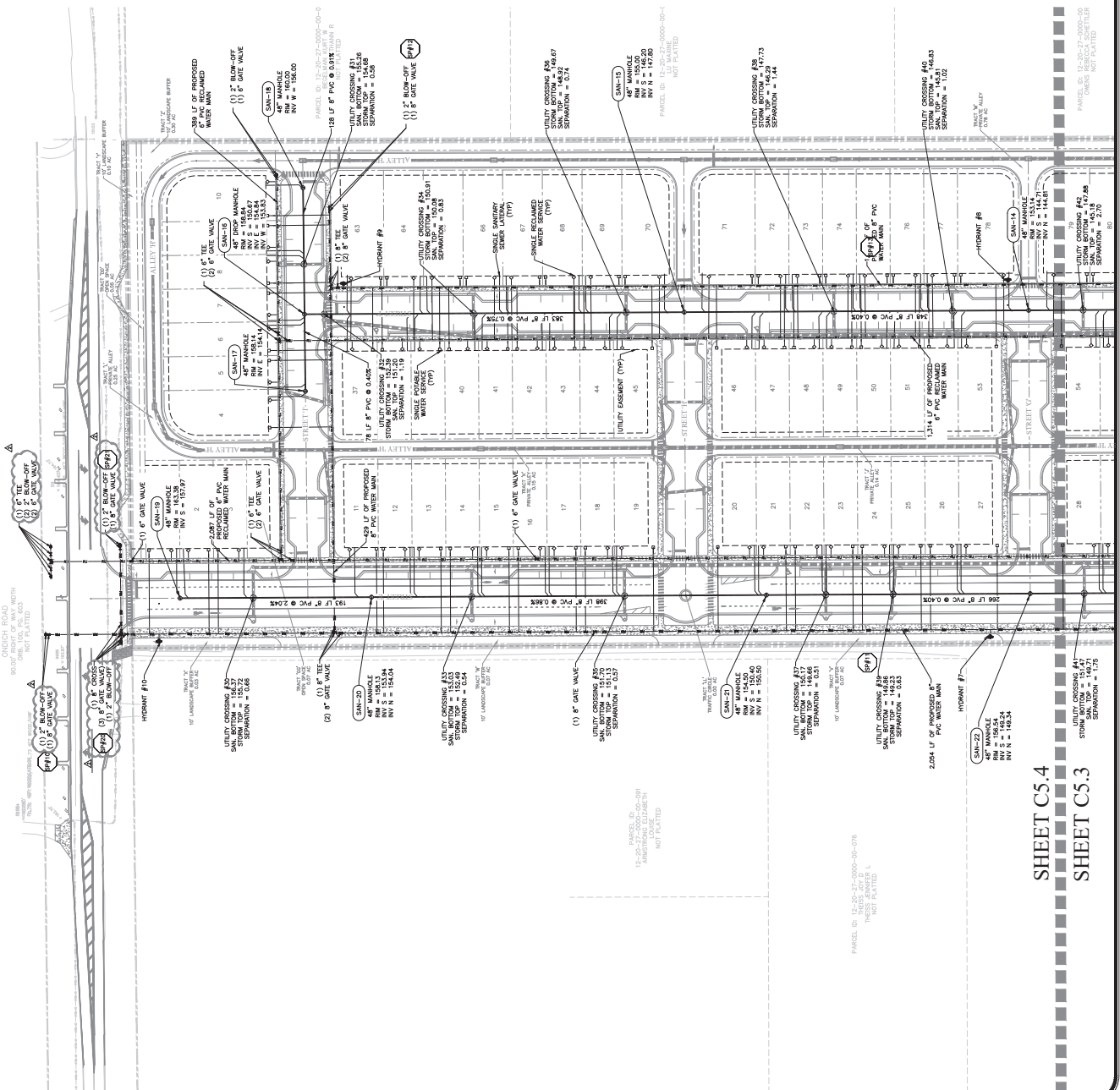
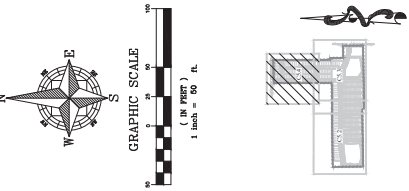


DATE:	5/30/2025
SHEET:	C5.4
CHECKED:	PUL-048
DESIGNED:	S. SERA-OL
SCALE:	1" = 50'
DRAWN:	A. FRANOS

UTILITY PLAN - NORTH
CONSTRUCTION SITE PLAN
CITY OF APOPKA, FLORIDA

APPLAN ENGINEERING, INC.
CIVIL ENGINEERING & LAND PLANNING
APPPLAN.COM • 407.960.5888

REV:	DATE:	DESCRIPTION:
02	07/22/25	02/07/25 CITY OF APOPKA COMMENTS DATED 04/29/2025
01	07/22/25	01/07/25 CITY OF APOPKA COMMENTS DATED 04/29/2025

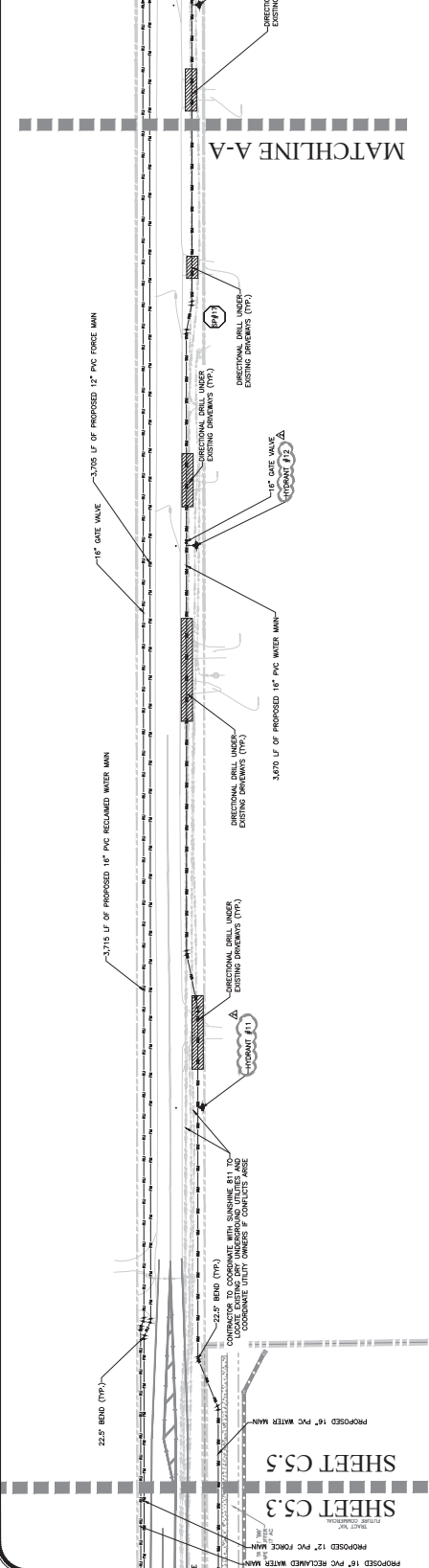
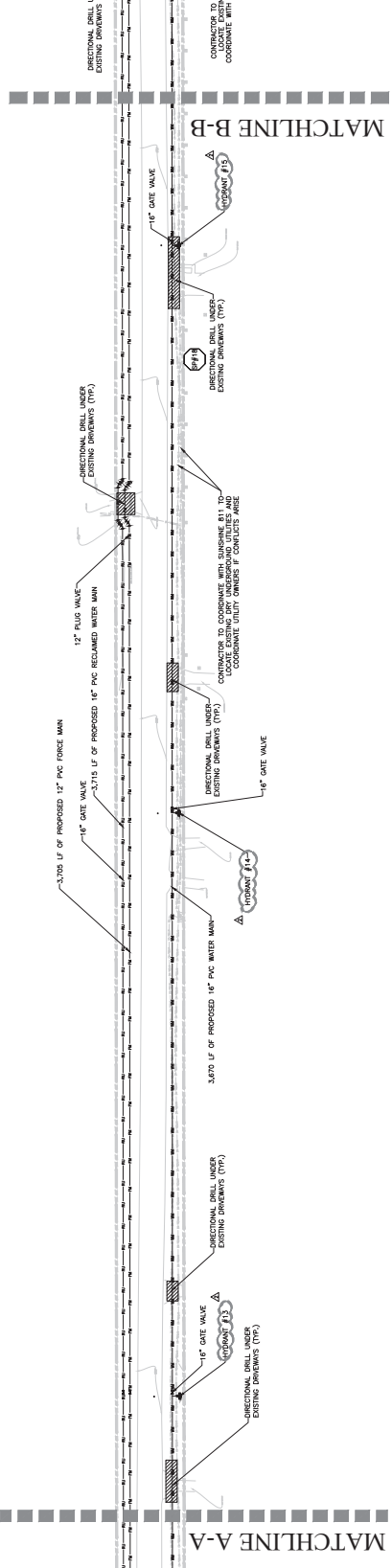
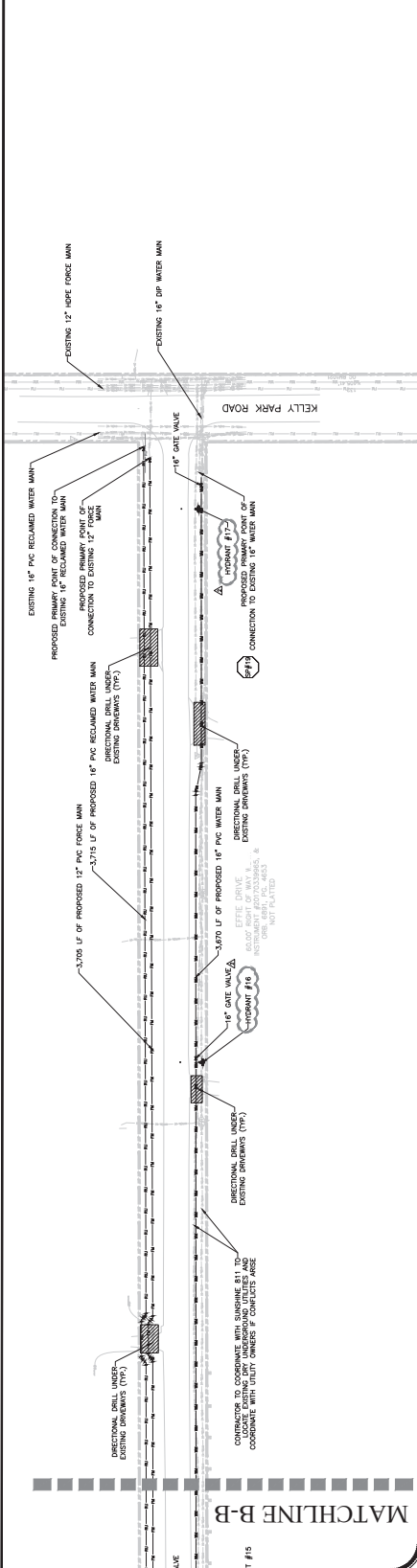
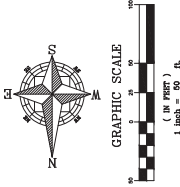
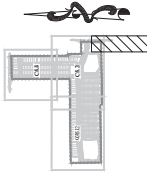


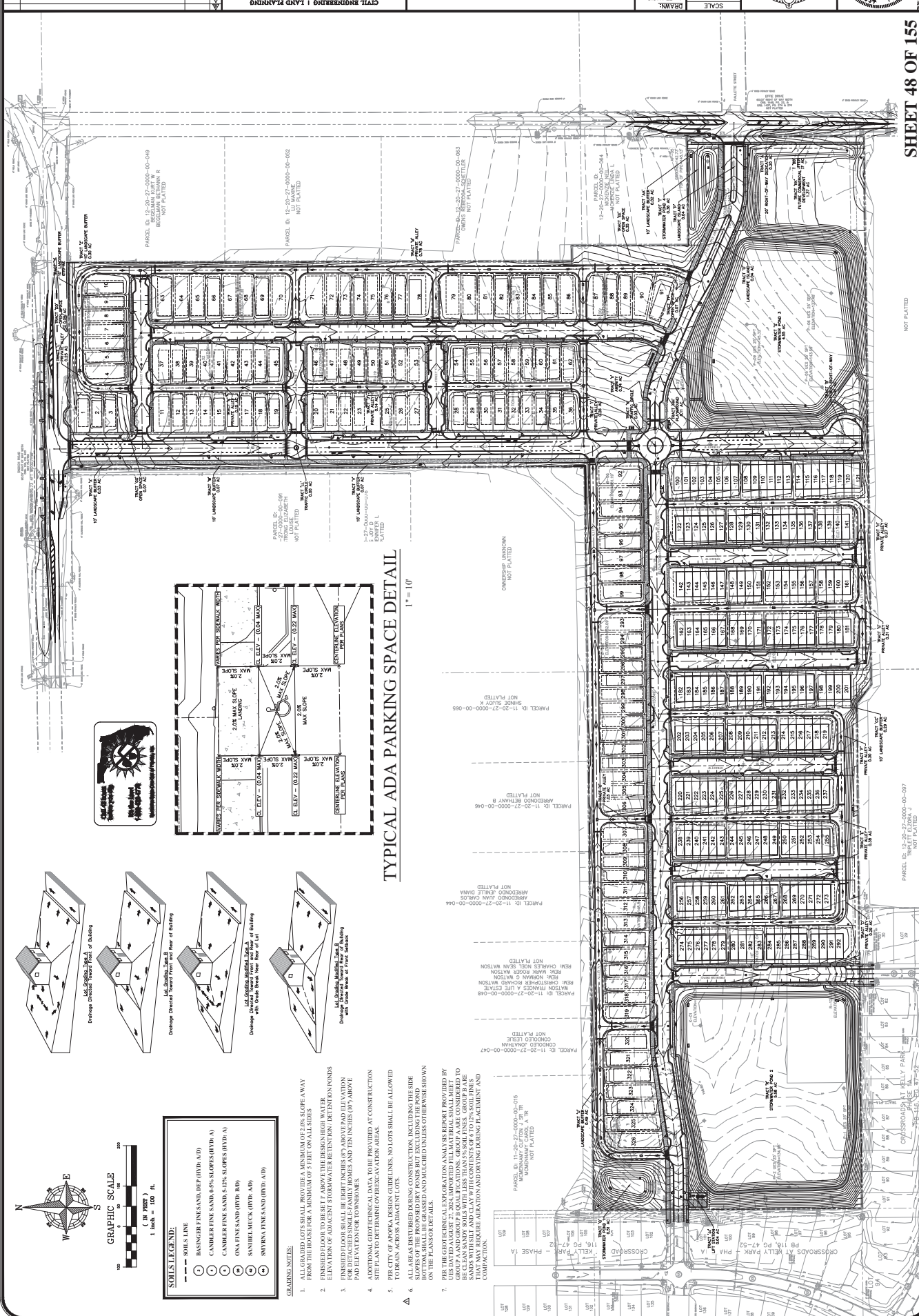


SCALE	1" = 50'
PROJECT	PUL-048
SHEET	C5.5
CHECKED:	L. CLASSON
DESIGNED:	S. SIERRA-GIL
DRAWN:	A. FRANCIS
DATE:	5/30/2025

UTILITY PLAN - SOUTH
CONSTRUCTION SITE PLAN

ENGINEERING | LAND PLANNING
N ENGINEERING L
APPLAFL.COM • 407.960.5858
EXETER, NEW HAMPSHIRE 03185 • 27, WILSON BLVD., EXETER, NH 03185

[illegible]





SCALE	1" = 50'
PROJECT	PUL-048
SHEET	C6.1
DRAWN:	A. FRANCIS
DESIGNED:	S. SIERRA-GIL
CHECKED:	L. CLASSON
DATE:	5/30/2025

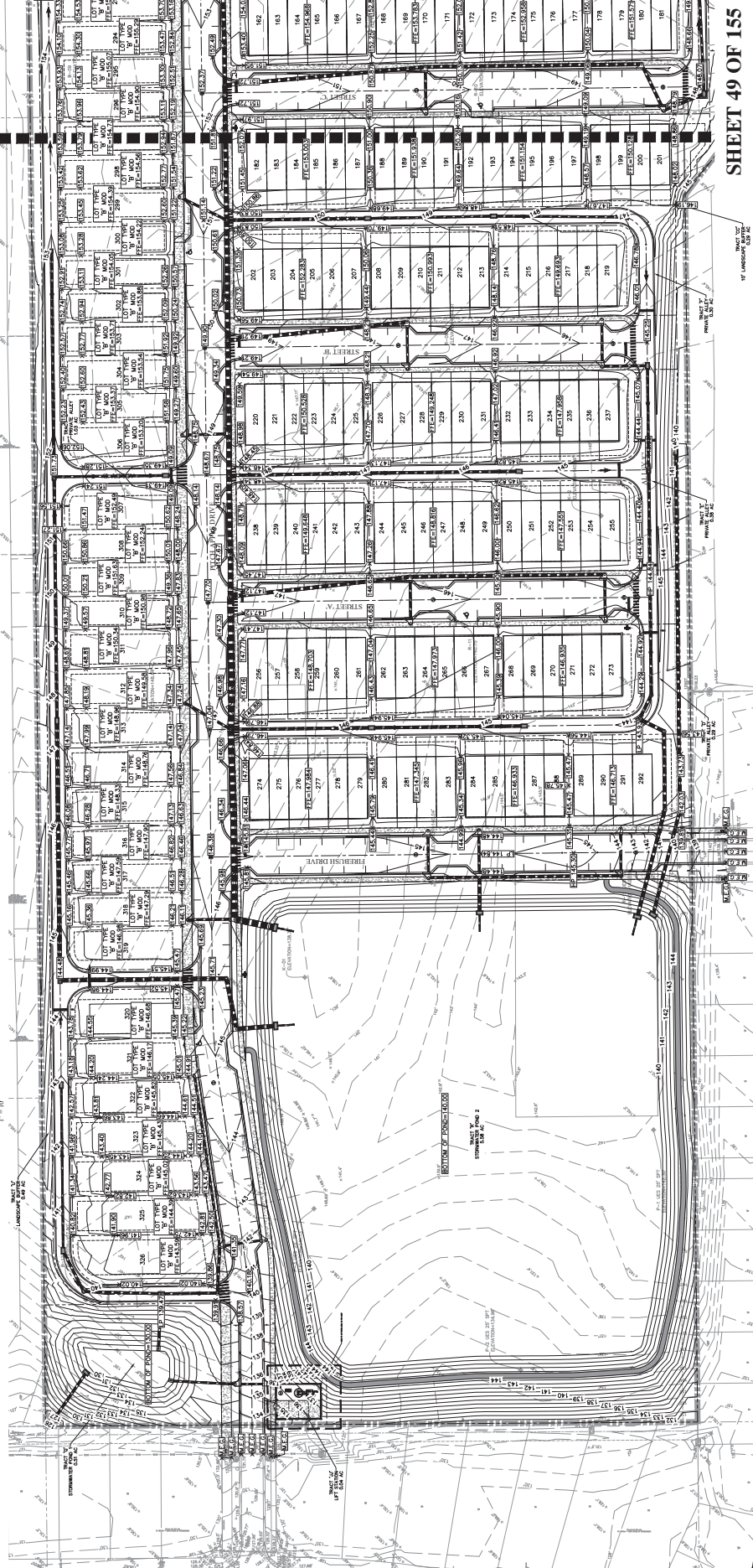
PAVING & GRADING PLAN - WEST
CONSTRUCTION SITE PLAN
ONDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

CIVIL ENGINEERING | LAND PLANNING

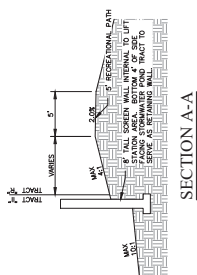
APPIAN ENGINEERING LLC.

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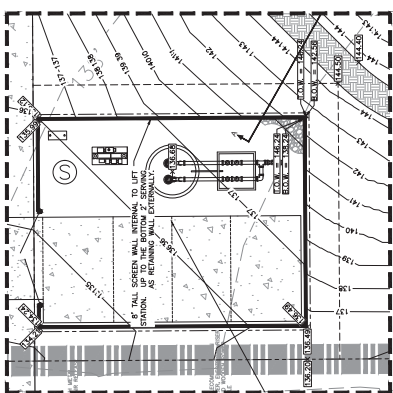
7321 LEE BOULEVARD, SUITE 271, WILMINGTON, MASSACHUSETTS 01897
DESIGN AND CONSTRUCTION OF LANDSCAPE ARCHITECTURE

[illegible]

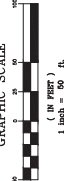
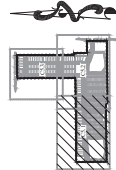
LIFT STATION DETAIL



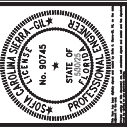
SECTION A-A



KEY MAP



SHEET 50 OF 155

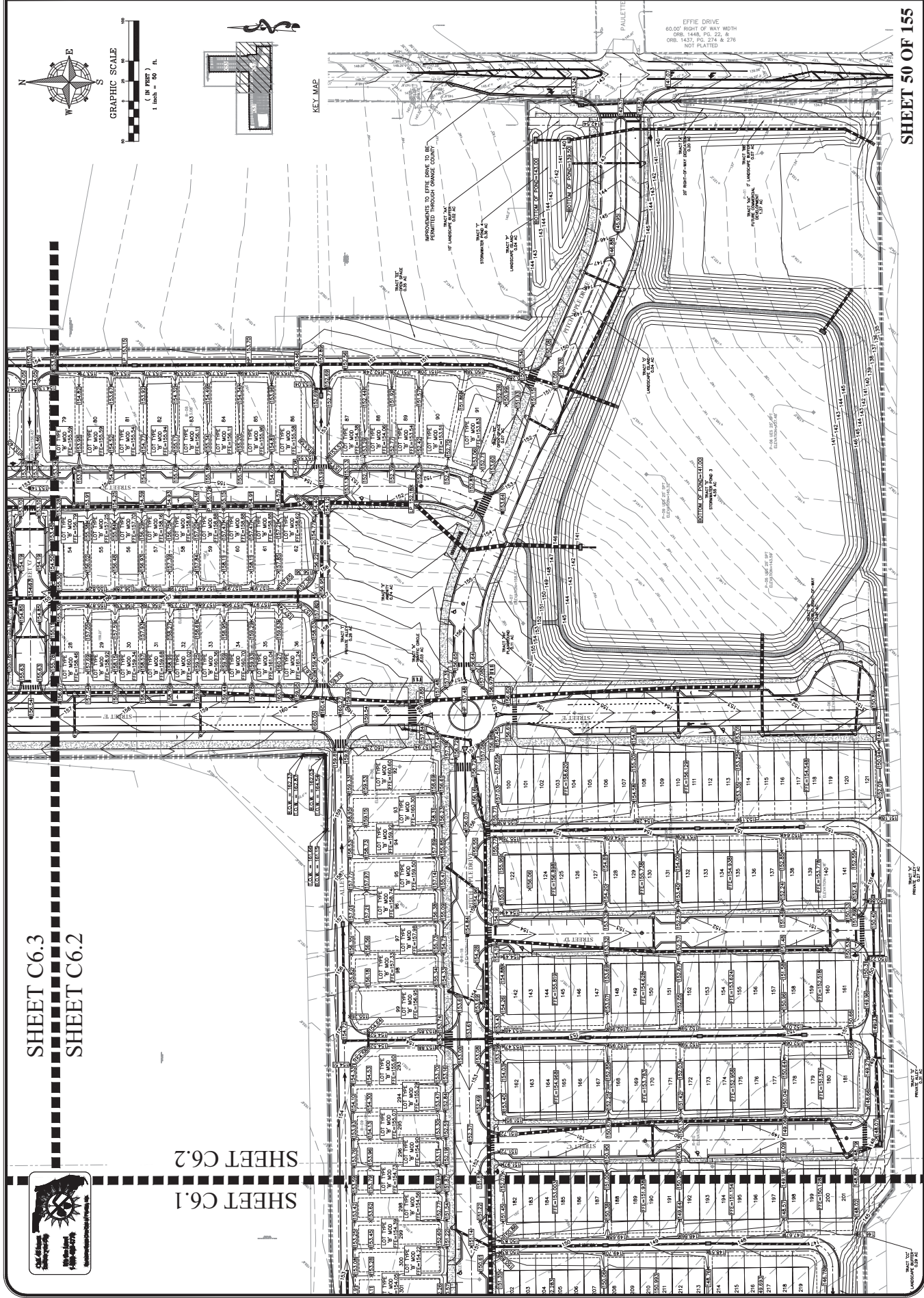


SCALE	1" = 50'
DRAWN	A. FRANCO
DESIGNED	S. SERRA-OL
PROJECT	PUL-048
CHECKED	L. CLASSEN
SHEET	C6.2
DATE	5/30/2025

PAVING & GRADING PLAN - EAST
CONSTRUCTION SITE PLAN
CITY OF APOPKA, FLORIDA

APPLAN ENGINEERING, L.L.C.
APPLANFL.COM • 407.960.5868
3031 LAW BLVD., SUITE 200, APOPKA, FLORIDA 32017

REV	DATE	DESCRIPTION
1	05/14/25	CITY OF APOPKA COMMENTS DATED 04/29/2025
2	05/14/25	LAND COMMENTS DATED 05/12/2025
BY		
505		



SHEET C6.3
SHEET C6.2

SHEET C6.1
SHEET C6.2

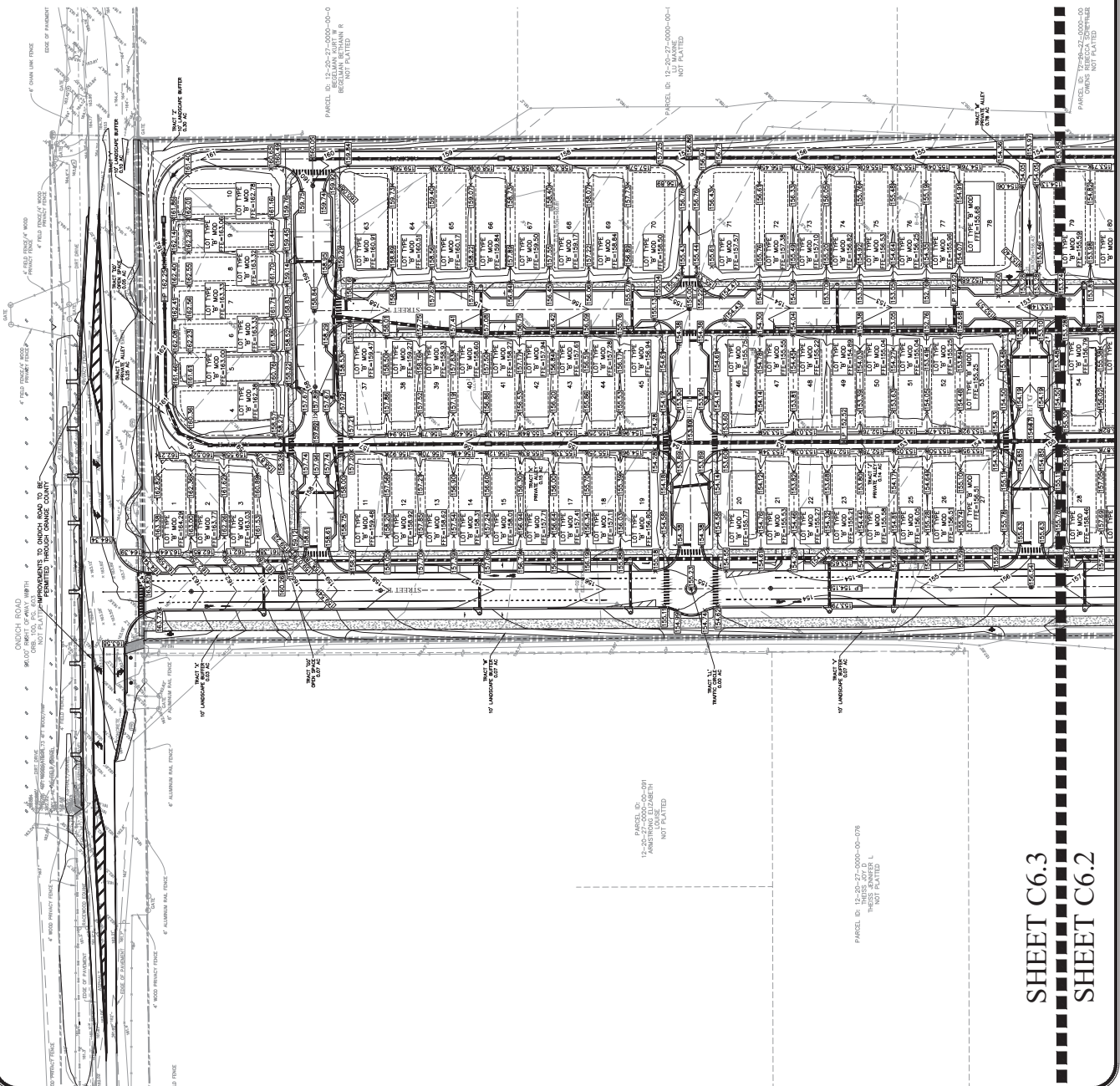
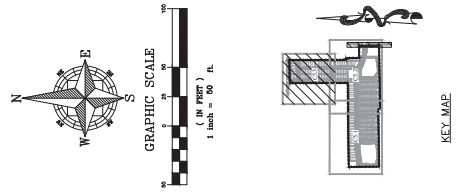


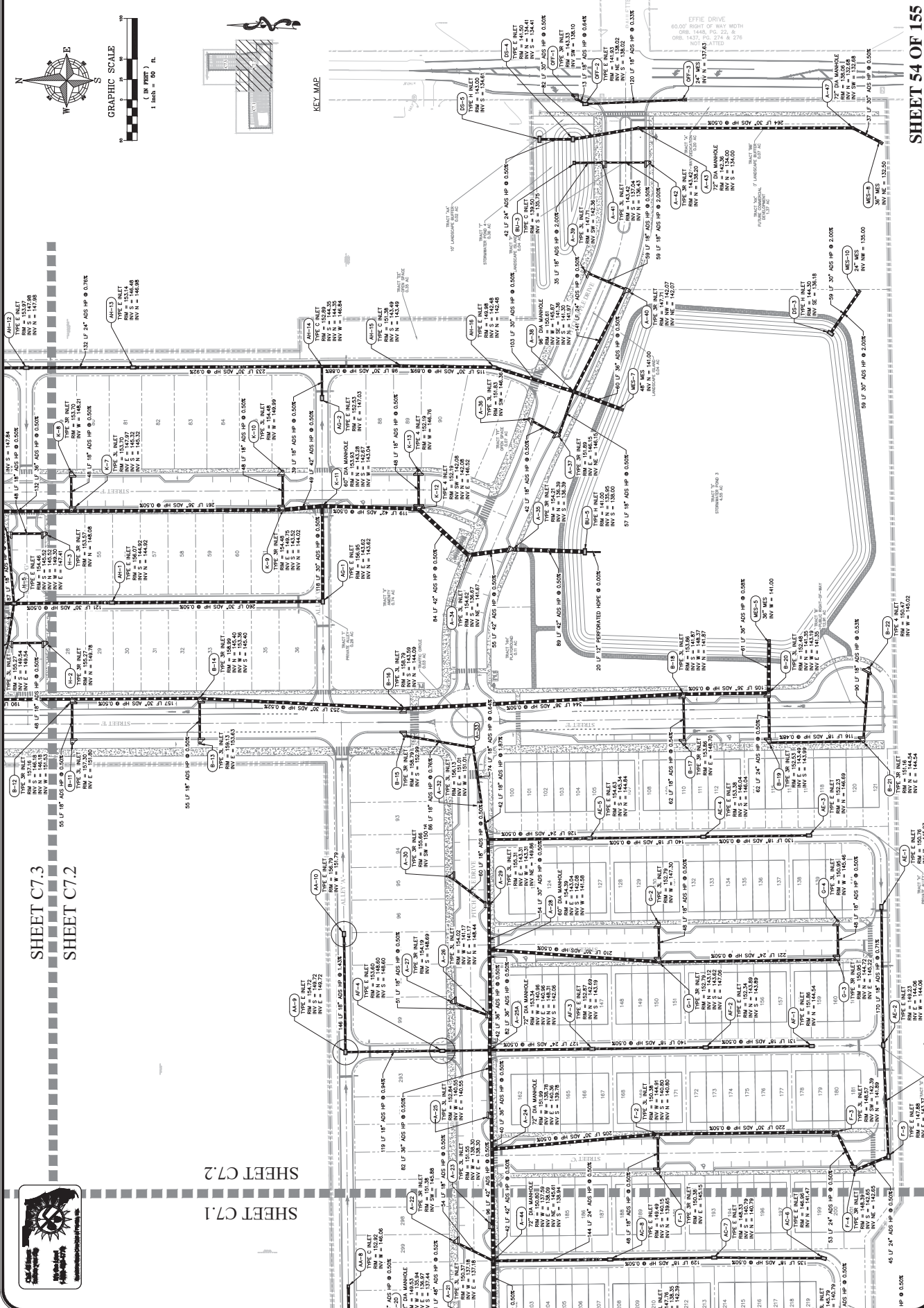


SCALE	= 50'	PROJECT	048	SHEET	06.3
DRAWN:	A. FRANCIS	DESIGNED:	S. SIERRA-GIL	CHECKED:	L. CLASSON
				DATE:	5/30/2025

NG & GRADING PLAN - NORTH
CONSTRUCTION SITE PLAN

CIVIL ENGINEERING | LAND PLANNING
APPJIAN ENGINEERING LLC
APPJIANFL.COM • 407.960.5868

[illegible]





DRAWN:	A. FRANCIS
DESIGNED:	S.SIERRA-GIL
CHECKED:	L.CLASSON
DATE:	5/22/2025

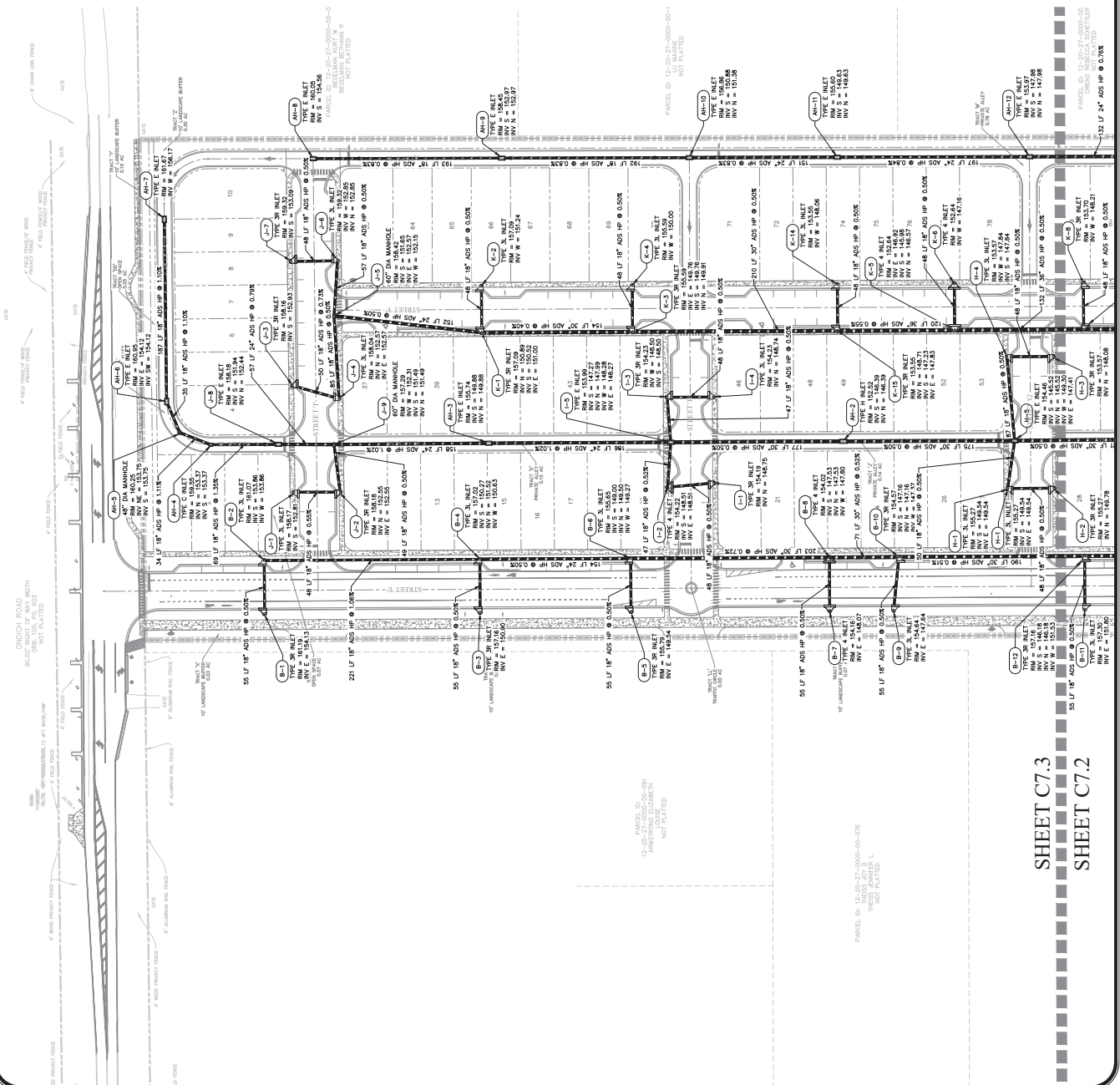
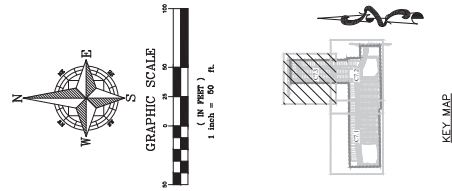
DRAINAGE PLAN - NORTH
CONSTRUCTION SITE PLAN
ONDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

CIVIL ENGINEERING | LAND PLANNING

APPIAN ENGINEERING LLC

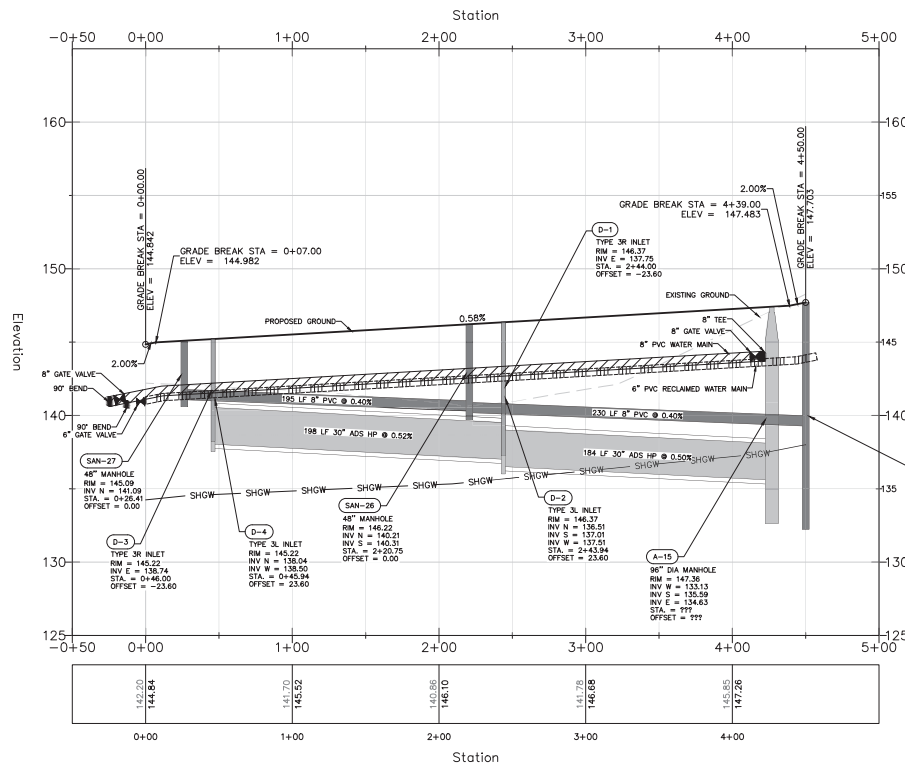
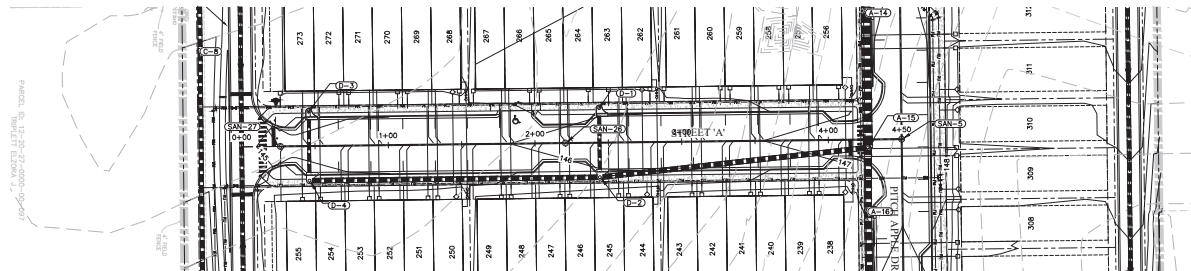
APPIANFL.COM • 407.960.5868

2221 Lee Road, Suite 27, Weston, FL 33391

[illegible]

SHEET C7.3

SHEET C7.2



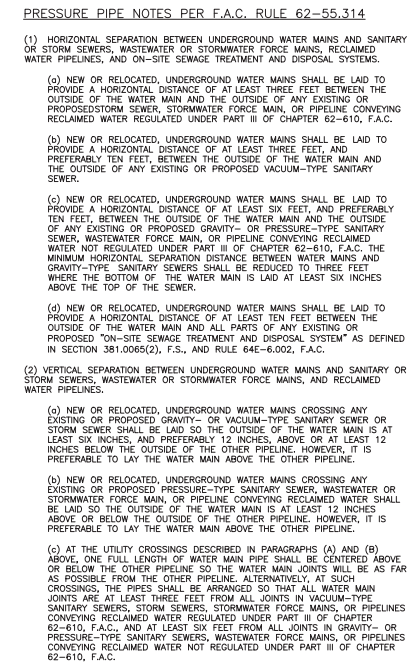
PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

- (1) 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.
 - (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, STORMWATER 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 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.
 - (c) 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 STORMWATER 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 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.
 - (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, 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.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

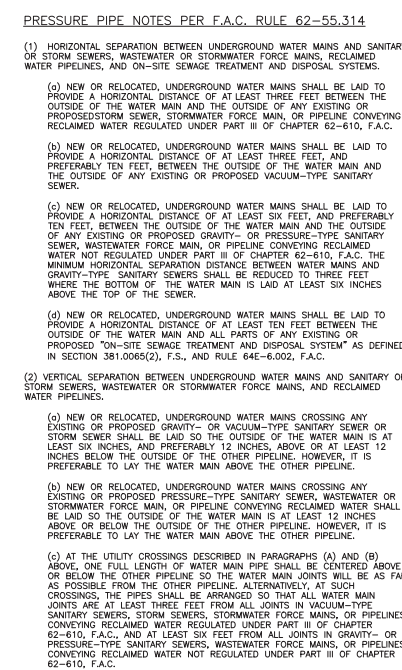
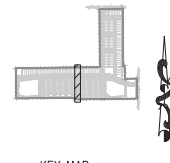
SHEET 56 OF 155

CIVIL ENGINEERING / LAND PLANNING		PLAN & PROFILE - STREET A CONSTRUCTION SITE PLAN		ONDICH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA	
APPIAN ENGINEERING LLC.		DRAWN: A. FRANCIS		SCALE: 1" = 40'	
APPIAN.COM - 407.560.5868		DESIGNED: S. SERRA-OL		PROJECT: PUL-048	
2025 Lic No. 12007, 12008, 12009, 12010, 12011, 12012, 12013, 12014, 12015, 12016, 12017, 12018, 12019, 12020, 12021, 12022, 12023, 12024, 12025, 12026, 12027, 12028, 12029, 12030, 12031, 12032, 12033, 12034, 12035, 12036, 12037, 12038, 12039, 12040, 12041, 12042, 12043, 12044, 12045, 12046, 12047, 12048, 12049, 12050, 12051, 12052, 12053, 12054, 12055, 12056, 12057, 12058, 12059, 12060, 12061, 12062, 12063, 12064, 12065, 12066, 12067, 12068, 12069, 12070, 12071, 12072, 12073, 12074, 12075, 12076, 12077, 12078, 12079, 12080, 12081, 12082, 12083, 12084, 12085, 12086, 12087, 12088, 12089, 12090, 12091, 12092, 12093, 12094, 12095, 12096, 12097, 12098, 12099, 12100, 12101, 12102, 12103, 12104, 12105, 12106, 12107, 12108, 12109, 12110, 12111, 12112, 12113, 12114, 12115, 12116, 12117, 12118, 12119, 12120, 12121, 12122, 12123, 12124, 12125, 12126, 12127, 12128, 12129, 12130, 12131, 12132, 12133, 12134, 12135, 12136, 12137, 12138, 12139, 12140, 12141, 12142, 12143, 12144, 12145, 12146, 12147, 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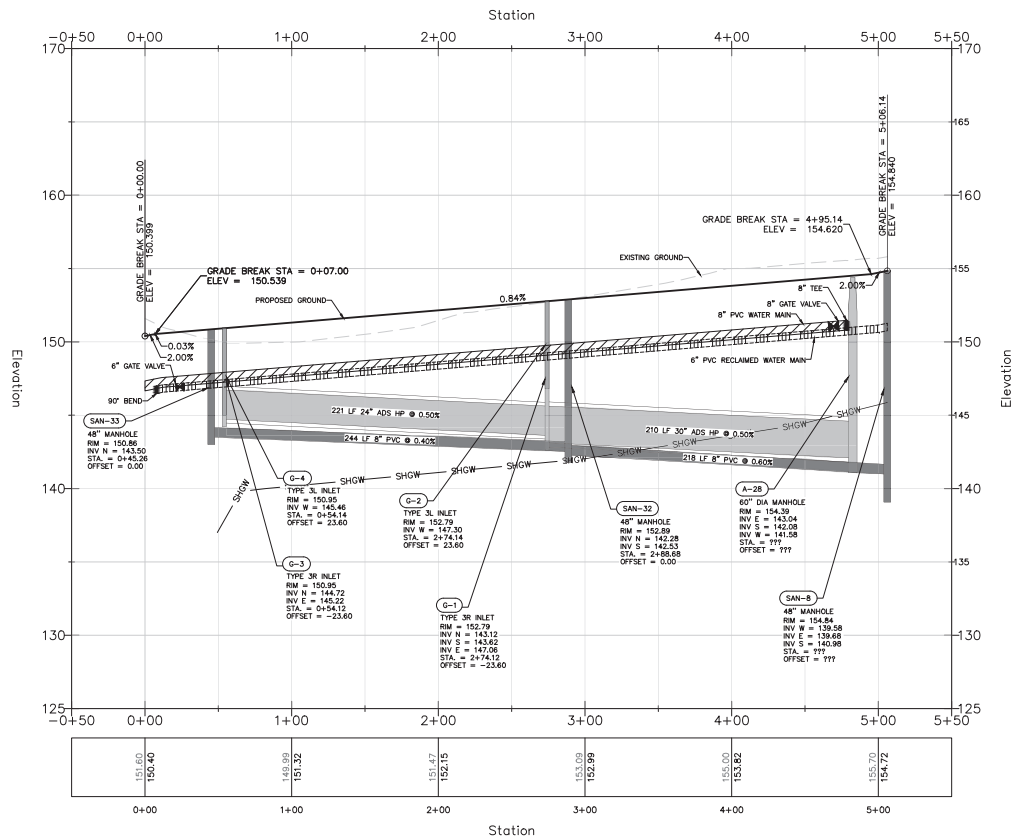
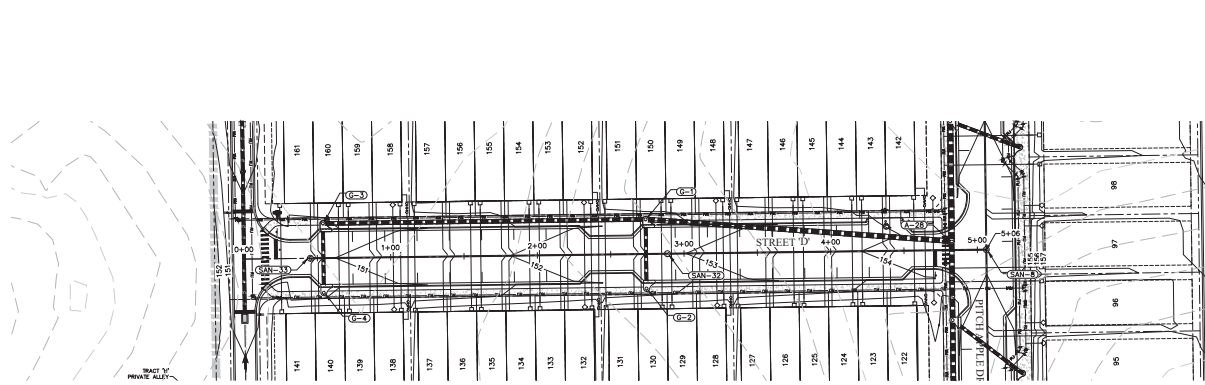


VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 57 OF 155



	SCALE	1" = 40'	BRANK	PLAN & PROFILE - STREET C CONSTRUCTION SITE PLAN ONDICH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA	CIVIL ENGINEERING I LAND PLANNING APPLAN ENGINEERING LLC.	05/14/25 CITY OF APOPKA COMMENTS DATED 05/28/2025 03/07/25 L&M CO COMMENTS DATED 03/27/2025 02/11/25 L&M CO COMMENTS DATED 02/27/2025
	PROJECT	SERRA-OUL PUL-048	DESIGNED: A. HANDS			

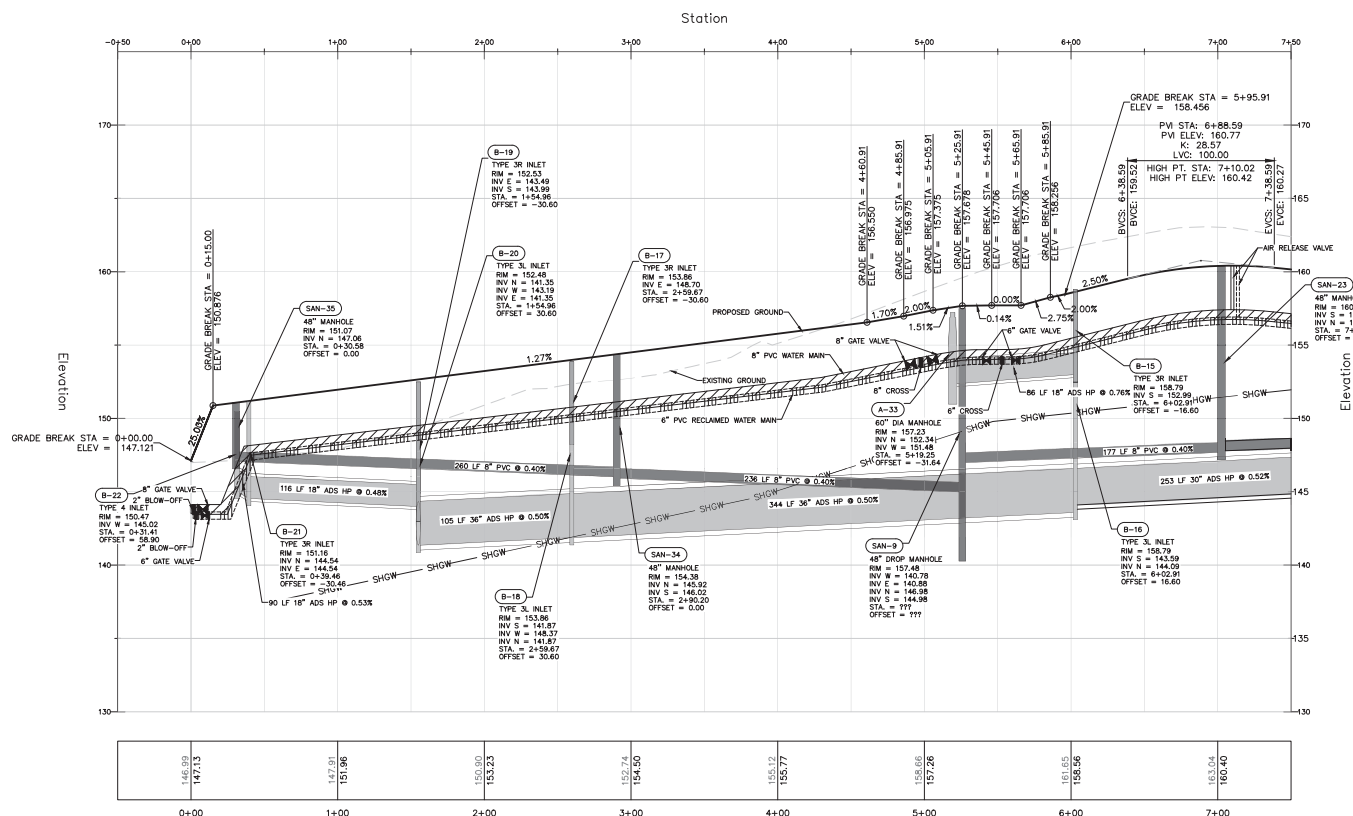
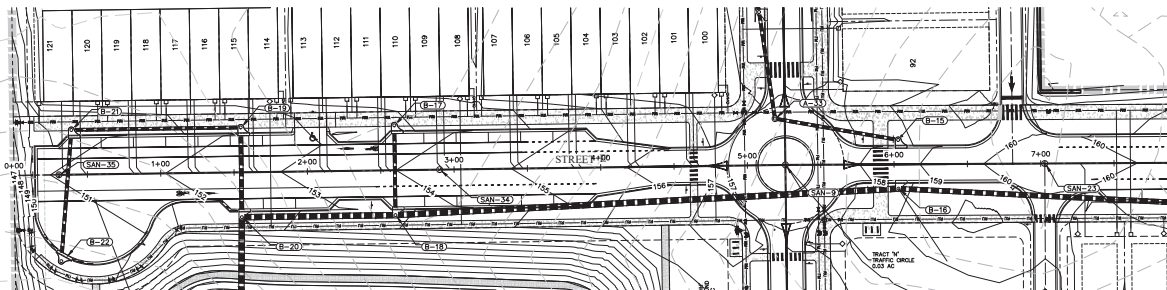


- PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314**
- (1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
- (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS 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, STORMWATER 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 381.006(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 STORMWATER 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 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.
- (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 PIPELINES 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.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 59 OF 155

CIVIL ENGINEERING / LAND PLANNING		PLAN & PROFILE - STREET D		CONSTRUCTION SITE PLAN		ONDICH SOUTH SUBDIVISION		CITY OF APOPKA, FLORIDA	
APPLAN ENGINEERING LLC.		DESIGNED: A. FRANCIS		PROJECT: S. SERRA-OL		CHECKED: PUL-048		SHEET: C8.3	
APPLAN.COM - 407.580.5888		DATE: 4/7/2025		CLASS: CLASS		DATE: 4/7/2025		DATE: 4/7/2025	
2025 Lic No. 10007, 10008, 10009, 10010, 10011, 10012, 10013, 10014, 10015, 10016, 10017, 10018, 10019, 10020, 10021, 10022, 10023, 10024, 10025, 10026, 10027, 10028, 10029, 10030, 10031, 10032, 10033, 10034, 10035, 10036, 10037, 10038, 10039, 10040, 10041, 10042, 10043, 10044, 10045, 10046, 10047, 10048, 10049, 10050, 10051, 10052, 10053, 10054, 10055, 10056, 10057, 10058, 10059, 10060, 10061, 10062, 10063, 10064, 10065, 10066, 10067, 10068, 10069, 10070, 10071, 10072, 10073, 10074, 10075, 10076, 10077, 10078, 10079, 10080, 10081, 10082, 10083, 10084, 10085, 10086, 10087, 10088, 10089, 10090, 10091, 10092, 10093, 10094, 10095, 10096, 10097, 10098, 10099, 10100, 10101, 10102, 10103, 10104, 10105, 10106, 10107, 10108, 10109, 10110, 10111, 10112, 10113, 10114, 10115, 10116, 10117, 10118, 10119, 10120, 10121, 10122, 10123, 10124, 10125, 10126, 10127, 10128, 10129, 10130, 10131, 10132, 10133, 10134, 10135, 10136, 10137, 10138, 10139, 10140, 10141, 10142, 10143, 10144, 10145, 10146, 10147, 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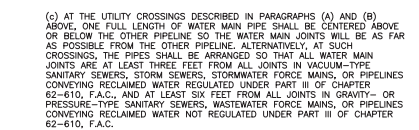
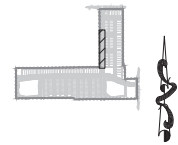


PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

- (1) 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.
- (c) 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 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.
- (d) 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.
- (e) 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 STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. OR THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND gravity-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET, WHEN THE BOTTOM OF THE WATER MAIN AND THE BOTTOM OF THE SEWER LIES ABOVE THE TOP OF THE SEWER.
- (f) 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 THE OUTSIDE OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.006(2), F.S., AND RULE 64C-6.002, F.A.C.
- (2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
- (c) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED gravity-TYPE OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER AND AT LEAST 2 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- (d) 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 THE TOP OF THE SEWER AND AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- (3) 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 FROM THE OTHER PIPELINE AS POSSIBLE. UNLESS OTHERWISE SPECIFIED, THE CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS BE AT LEAST 12 INCHES ABOVE THE TOP OF ANY 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 82-610, F.A.C. AND AT LEAST 12 INCHES ABOVE THE TOP OF gravity-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 60 OF 155

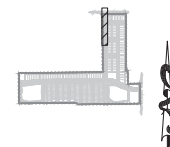


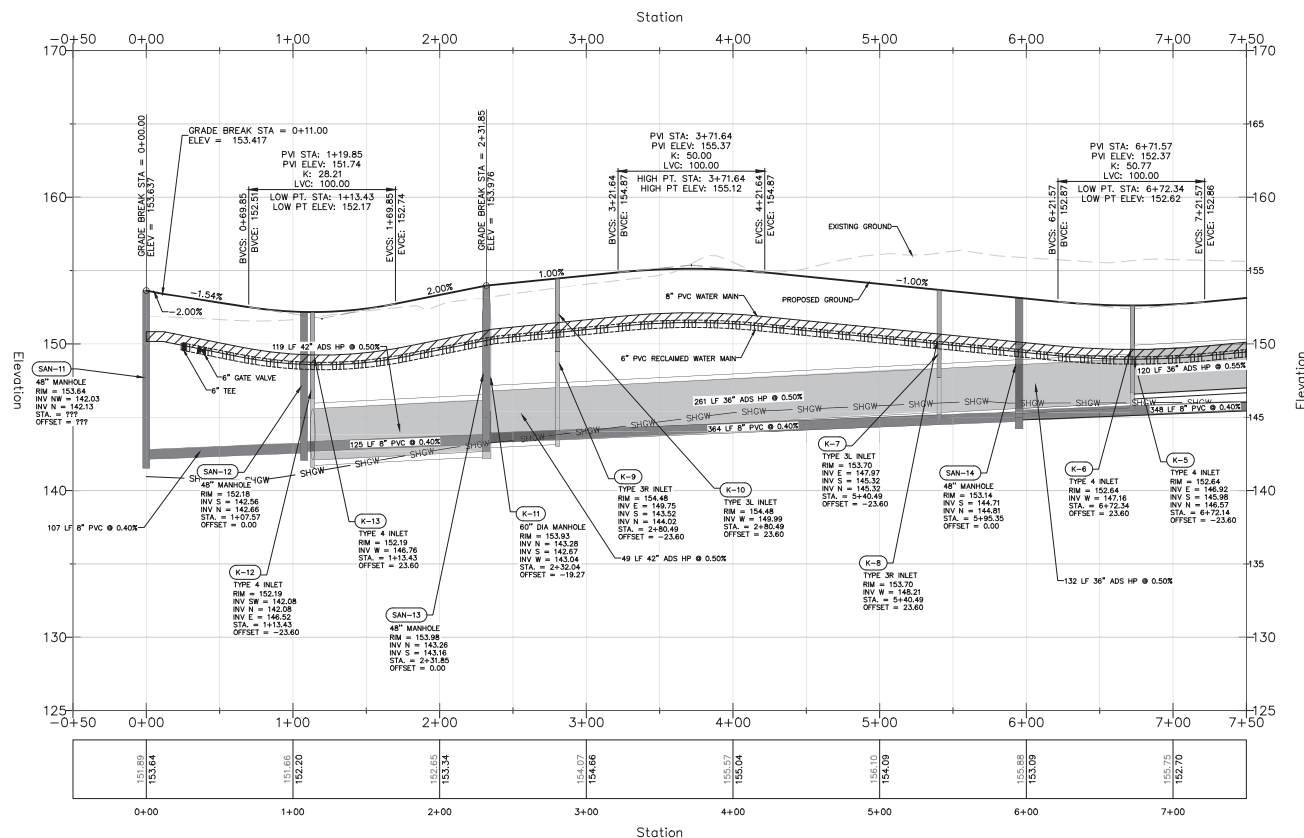
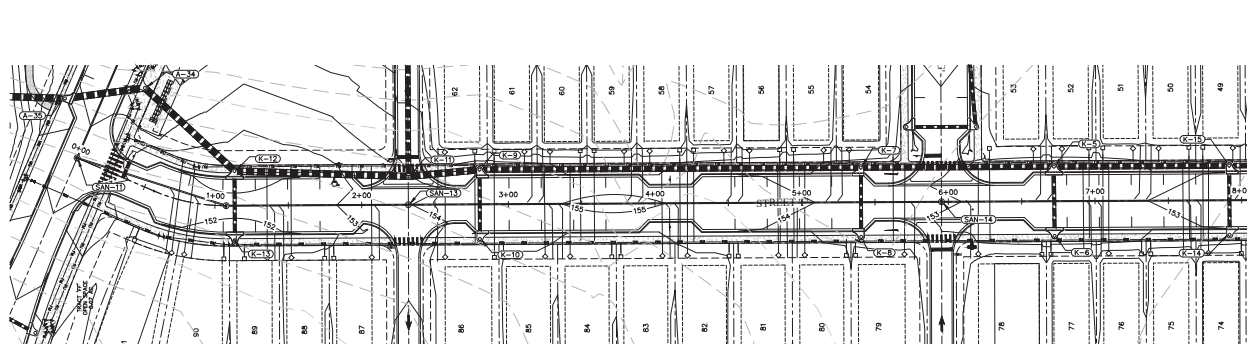
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PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

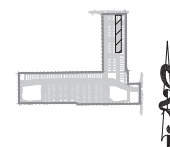
- (1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
 - (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER 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-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 STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
 - (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-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 STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAINS 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, 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.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 63 OF 155

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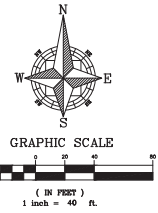
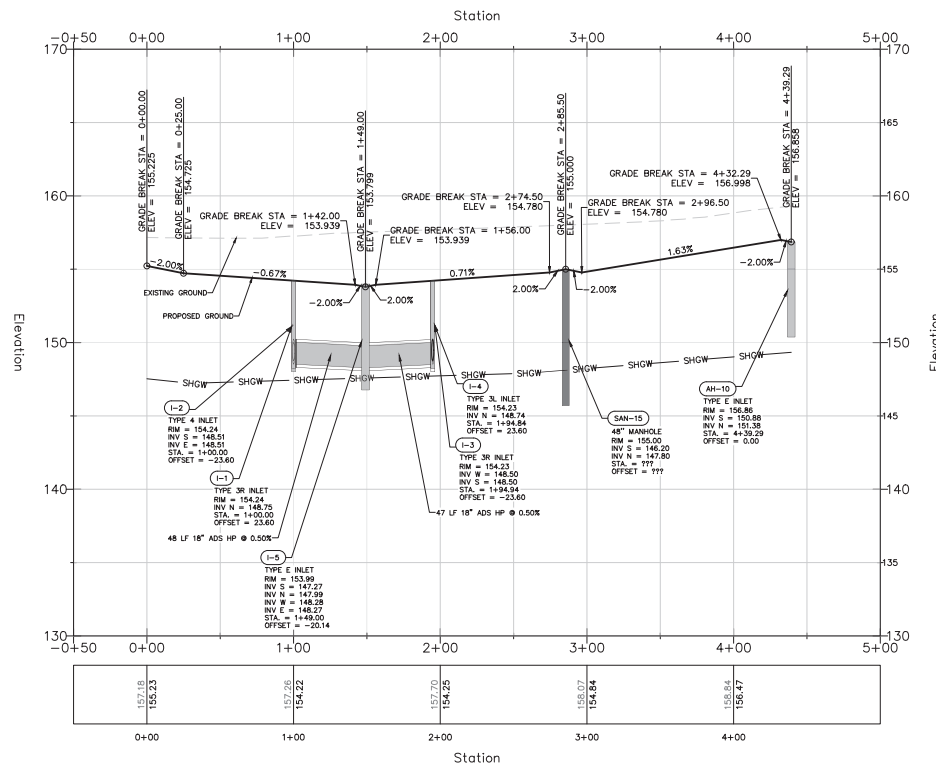
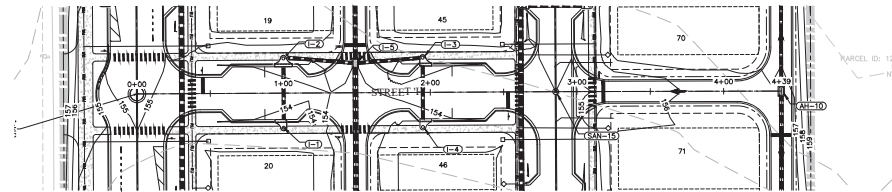


62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

SHEET 65 OF 155

The State of Florida Seal of Professional Engineering is a circular emblem. The outer ring contains the text "SOFIA CAROLINA SIERRA-OLI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top, the license number "No. 90745" is in the center, a single star is below the number, the text "STATE OF" is above the date "5/30/02", and the word "FLORIDA" is below the date.

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- PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314**
- (1) 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.
 - (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, STORMWATER 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 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.
 - (c) 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.
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 - (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.
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VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 66 OF 155

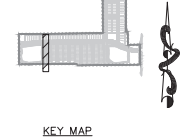
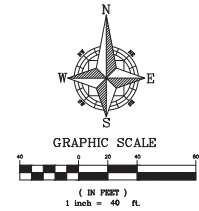
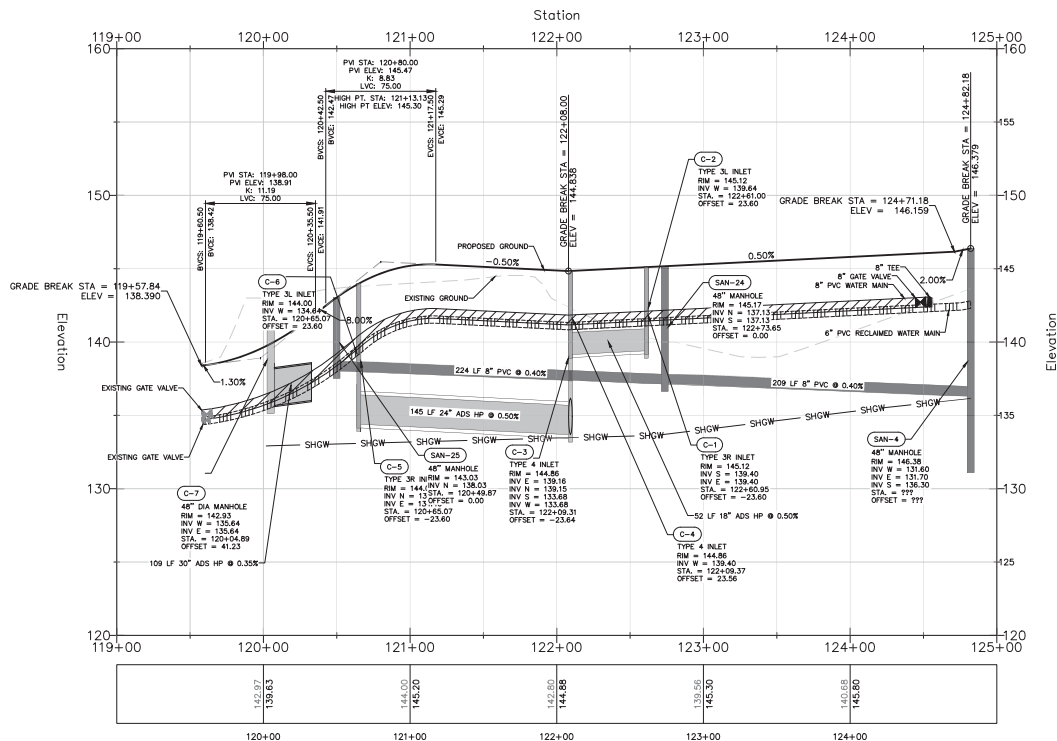
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APPIAN.COM - 407.960.5868		ONDICH SOUTH SUBDIVISION	
2021 Lic No. 10007 P. Wayne B. Bynum, 2020		CITY OF APOPKA, FLORIDA	
SCALE	1" = 40'	DRAWN BY	A. FRANCIS
PROJECT	PUL-048	DESIGNED BY	S. SERRA-OL
SHEET	C8.10	CHECKED BY	CLASSON
		DATE	5/10/2025



- (1) 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.
 - (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, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 66-610, 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 STORM SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 66-610, 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 THE OUTSIDE OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.006(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 STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
 - (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER. IF THE WATER MAIN IS 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE, HOWEVER, IT IS PREFERABLE TO LAID 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 SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER. IF THE WATER MAIN IS 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE, HOWEVER, IT IS PREFERABLE TO LAID 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 JOINTS OF THE OTHER PIPELINE. AT UTILITY CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS SHALL BE AT LEAST 12 INCHES ABOVE THE TOP OF THE OTHER PIPELINE. SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 66-610, F.A.C., AND PIPES OR CONDUITS FOR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 66-610, F.A.C.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 67 OF 155



(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 10 FEET FROM THE OTHER PIPELINE IN VACUUM BREAKER 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.

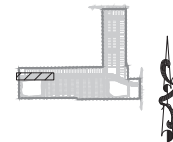
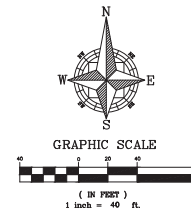
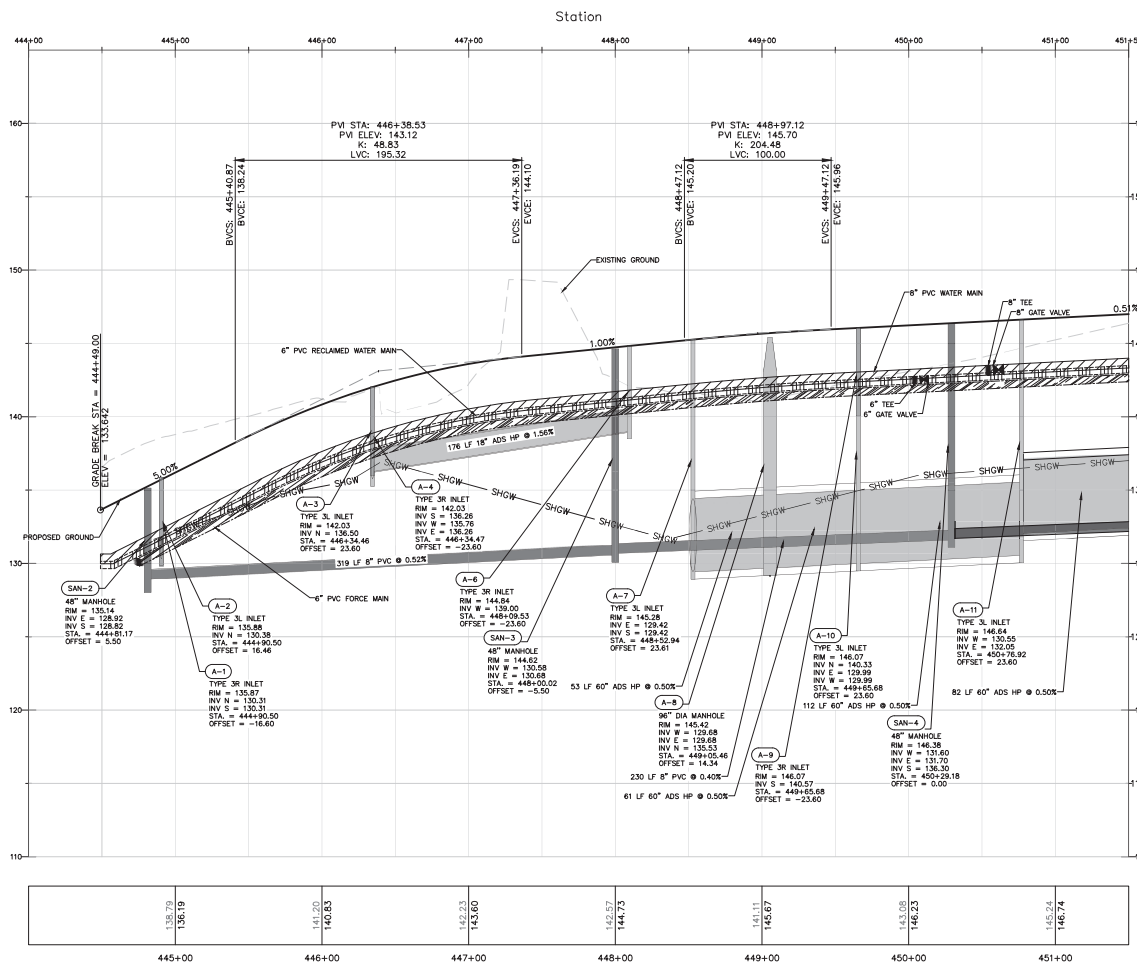
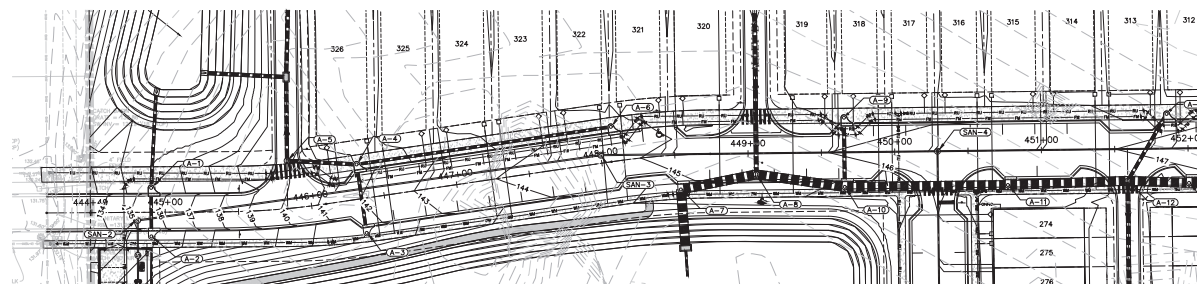
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SHEET 68 OF 155

[illegible]



PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

- (1) 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.
 - (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, STORMWATER 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 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.
 - (c) 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 STORMWATER 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 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.
 - (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 GRAVITY-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.

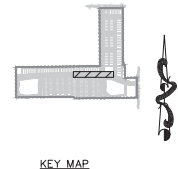
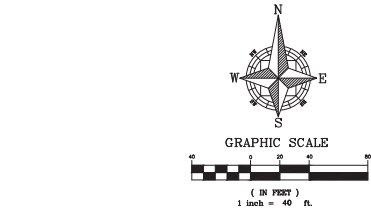
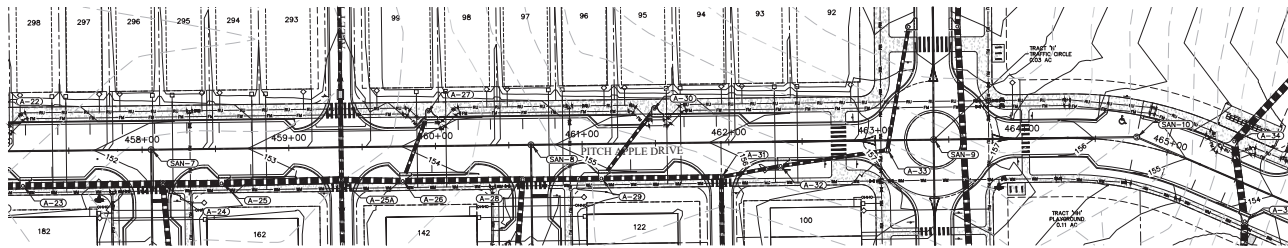
VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 69 OF 155

CIVIL ENGINEERING & LAND PLANNING		PLAN & PROFILE - PITCH APPLE DRIVE - STA 449+49 TO 451+00 CONSTRUCTION SITE PLAN		ONDICH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA	
APPLAN ENGINEERING LLC.		DRAWN: A. FRANCIS		SCALE: 1" = 40'	
APPLAN.COM - 407.980.5868		DESIGNED: S. SERRA-OL		PROJECT: PUL-048	
2021 Lic. No. 10072 - Thomas John, P.E., 2020		CHECKED: CLAUSSON		SHEET: CB.13	
DATE: 5/19/2025		DATE: 5/19/2025		DATE: 5/19/2025	

STATE OF FLORIDA
PROFESSIONAL ENGINEER





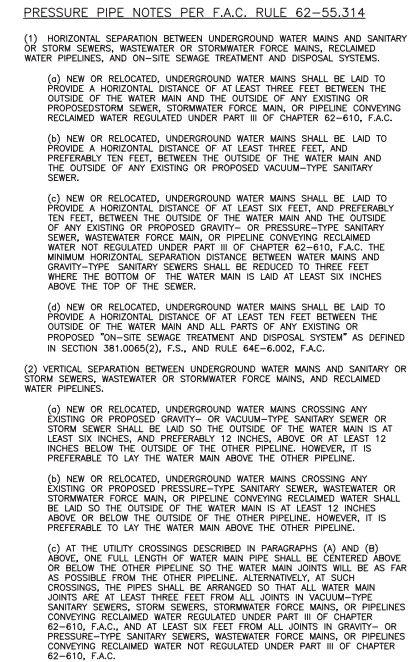
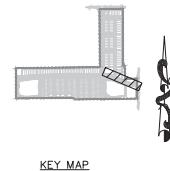
PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

- (1) 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.
 - (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, STORMWATER 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 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.
 - (c) 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 381.006(2)(f), F.S., AND RULE 64E-6.002, F.A.C.
- (2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER 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 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.
 - (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 GRAVITY-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.

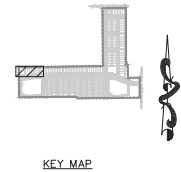
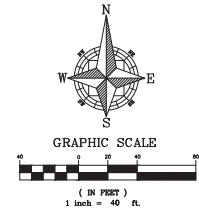
VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 71 OF 155

CIVIL ENGINEERING & LAND PLANNING		PLAN & PROFILE - PITCH APPLE DRIVE - STA 458+00 TO 465+00 CONSTRUCTION SITE PLAN		ONCH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA	
DESIGNED BY	A. FRANCIS	PROJECT NO.	408	CHECKED BY	CL. J. J.
DRAWN BY	S. SERRA-OL	SHEET NO.	048	DATE	5/19/2025
APPLAN ENGINEERING LLC		APPLAN.COM - 407.960.5868		STATE OF FLORIDA PROFESSIONAL ENGINEER No. 90745	
1000 N. W. 10th Ave., Suite 200, Ft. Lauderdale, FL 33304		1000 N. W. 10th Ave., Suite 200, Ft. Lauderdale, FL 33304		1000 N. W. 10th Ave., Suite 200, Ft. Lauderdale, FL 33304	



SHEET 72 OF 155



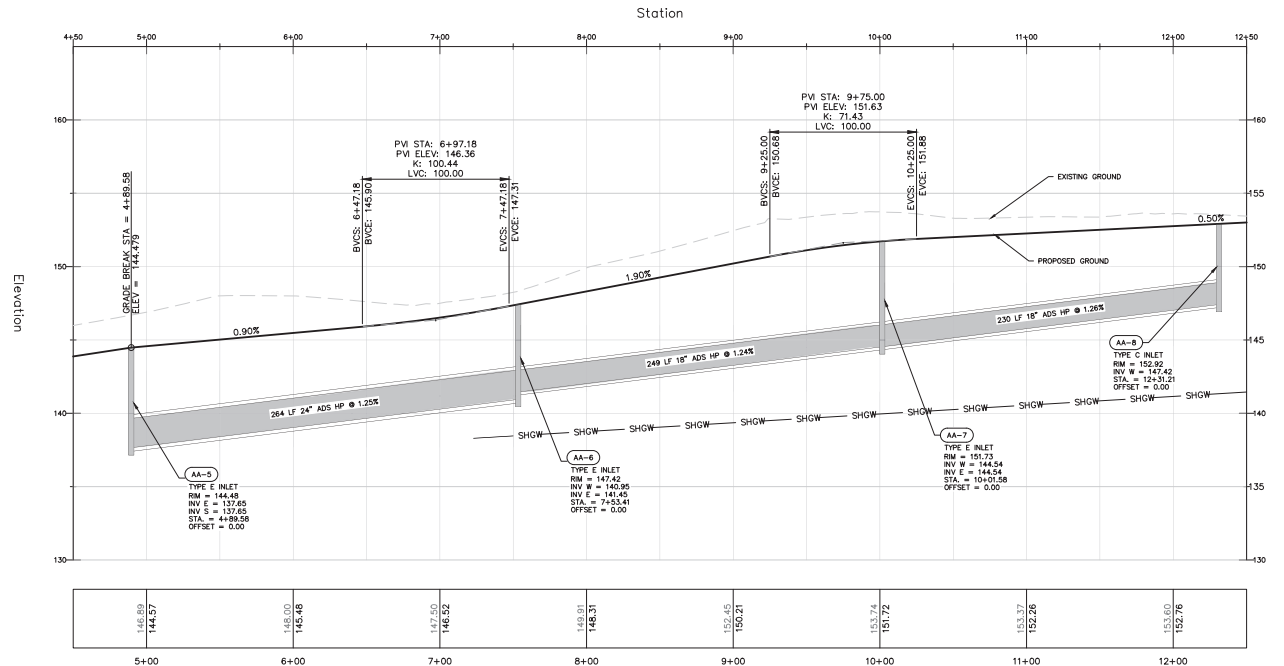
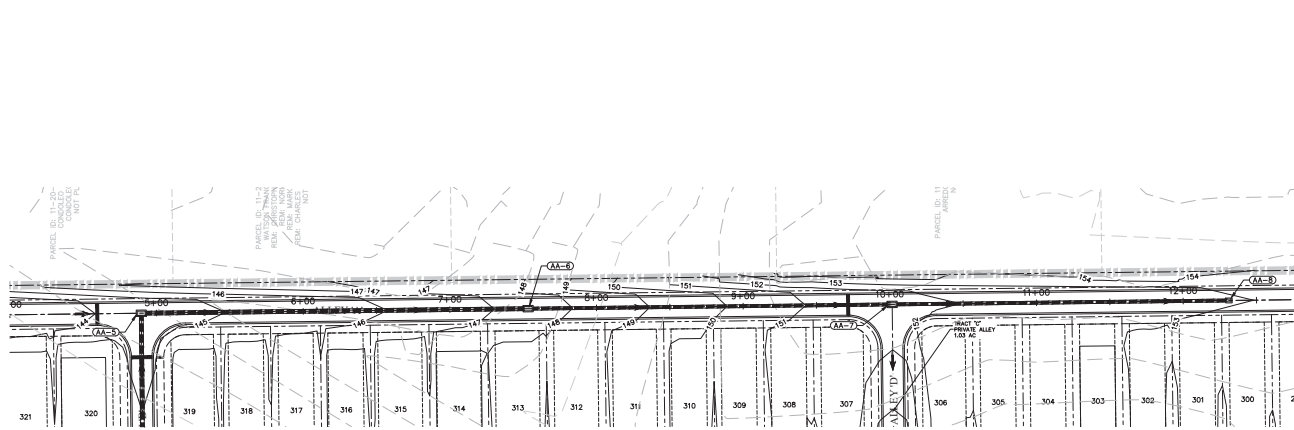
(c) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST TEN FEET FROM ALL OTHER TYPE PIPES, TYPE PIPES, SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CARRYING 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 CARRYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

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PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

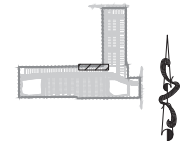
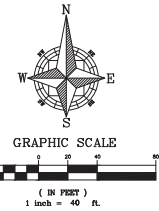
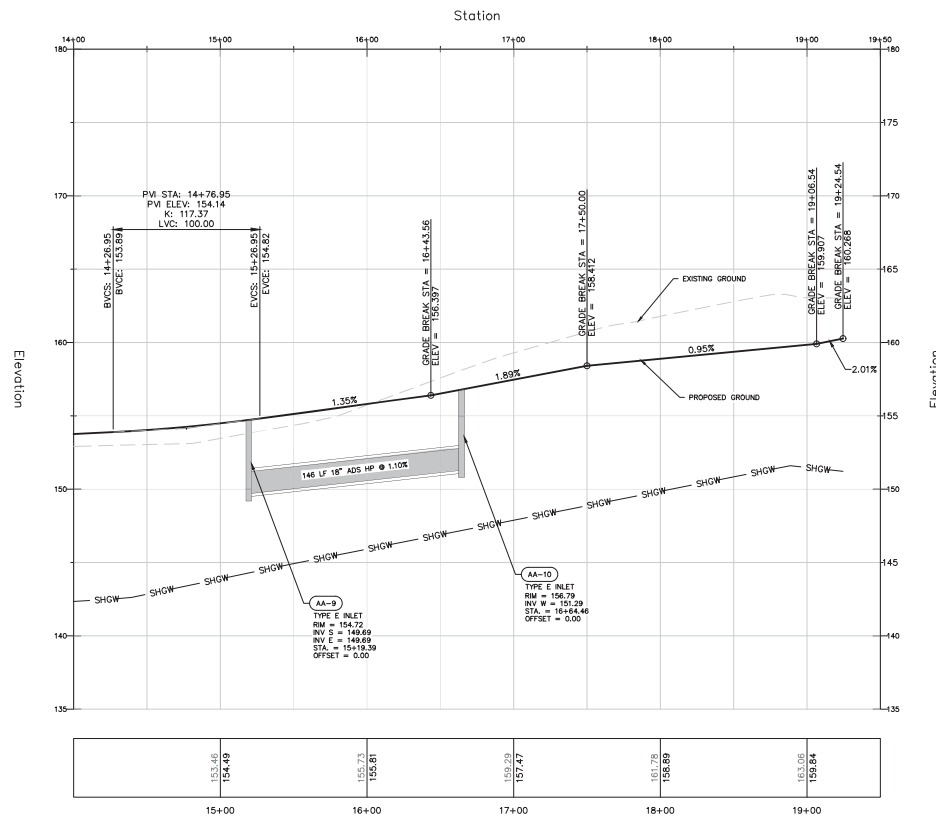
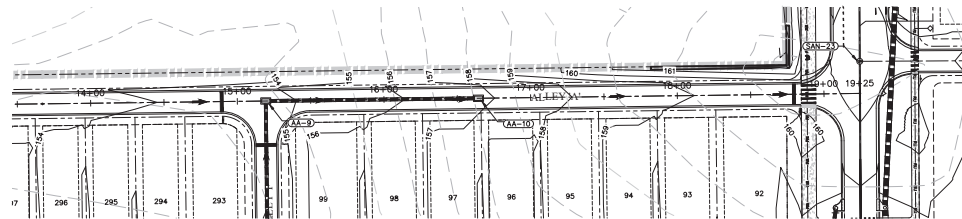
- (1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
 - (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER 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 STORMWATER 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 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.
 - (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, 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.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

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CIVIL ENGINEERING / LAND PLANNING		PLAN & PROFILE - ALLEY A - STA 5+00 TO 12+00 CONSTRUCTION SITE PLAN		ONDICH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA	
APPLAN ENGINEERING LLC.		SCALE: 1" = 40'		PROJECT: PUL-048	
APPLAN.COM - 407.560.5868		DESIGNED: S. SIERRA-OL		CHECKED: CLASSEN	
2025 Lic. No. 1000720 - William Sierra, P.E., L.P.		PROJECT SHEET		DATE: 4/7/2025	
SHEET 74 OF 155		APPLAN ENGINEERING		SOUTH CAROLINA SUPPLY CO. INC.	
SHEET 74 OF 155		APPLAN ENGINEERING		SOUTH CAROLINA SUPPLY CO. INC.	

P:\PROJECT DRAWINGS\PL-048 Onch South Asmetage\Drawings\CAD\CAD30\Layout\02 Construction Site Plan\PLAN & PROFILE - ALLEY A.dwg Modified: 5/17/2025 By: daniel.sanchez



KEY MAP

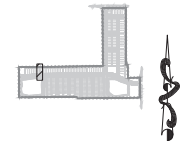
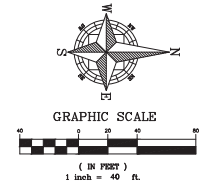
PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

- (1) 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.
 - (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, STORMWATER 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, 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.
 - (c) 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 STORMWATER 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 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.
 - (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, 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.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 75 OF 155

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APPLAN ENGINEERING LLC.	
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BY	DS
PLAN & PROFILE - ALLEY A - STA 12+00 TO 19+25 CONSTRUCTION SITE PLAN	
ONCH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA	
SCALE	1" = 40'
PROJECT	PUL-048
SHEET	C8.19
DATE	4/7/2025
APPLAN ENGINEERING	
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 90745	
STATE OF FLORIDA PROFESSIONAL ENGINEER	

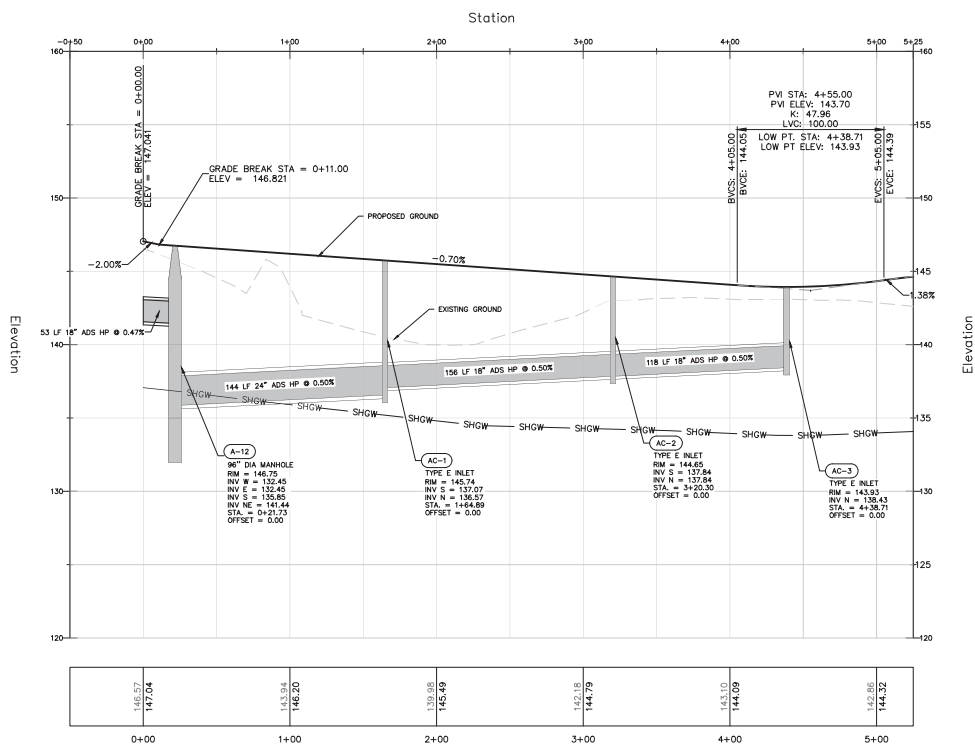


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Standardized Chart of results, 1995



KEY MAP

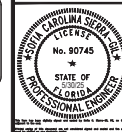
(1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

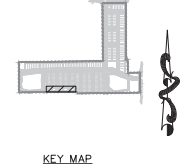
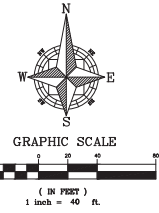
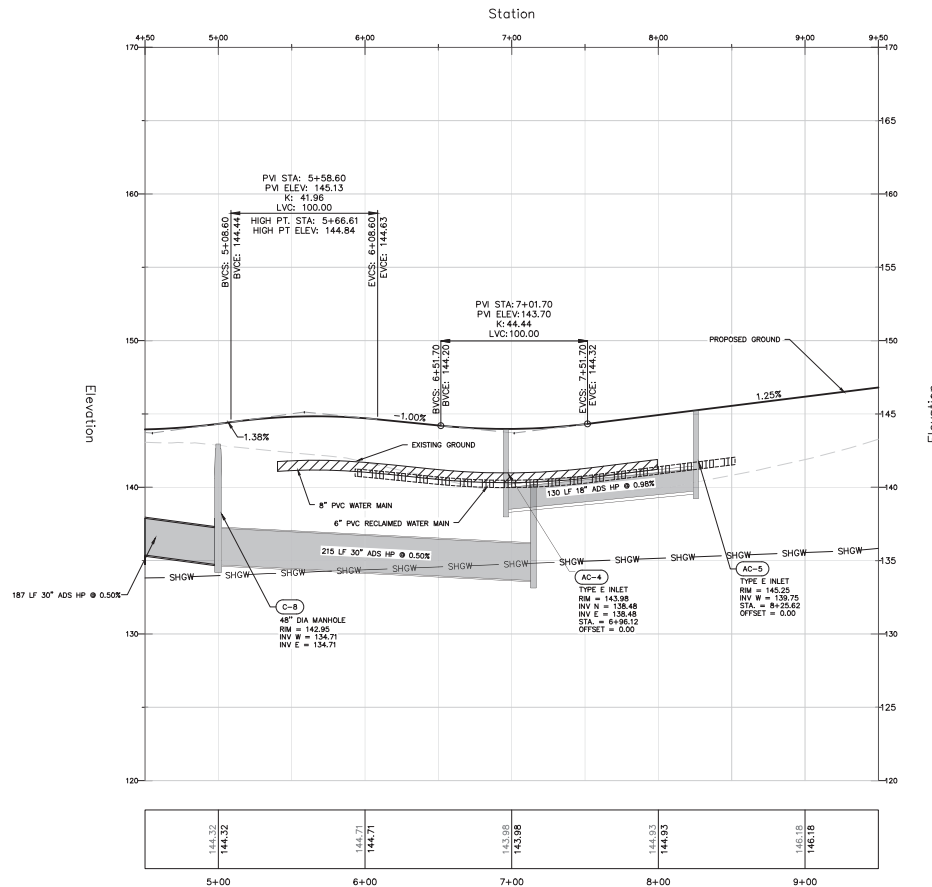
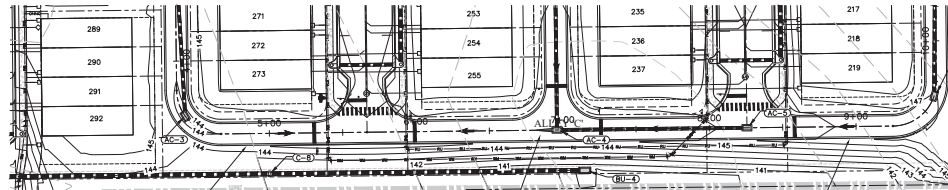
- (g) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- (h) 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 SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- (i) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET FROM THE BOTTOM OF THE WATER MAIN TO THE TOP OF THE SEWER, AND THREE FEET ABOVE THE TOP OF THE SEWER.
- (j) 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 THE OUTSIDE OF ANY EXISTING OR PROPOSED ON-SITE (SEWAGE TREATMENT AND DISPOSAL SYSTEM) AS DEFINED IN SECTION 381.006(2)(2), F.S., AND RULE 64C-6.002, F.A.C.
- (k) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
- (l) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORMWATER SEWER SHALL BE LAID TO PROVIDE A HORIZONTAL SEPARATION DISTANCE OF AT LEAST SIX INCHES, AND PREFERABLY TEN INCHES, ABOVE OR AT LEAST SIX INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- (m) 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 TO PROVIDE A HORIZONTAL SEPARATION DISTANCE OF AT LEAST SIX INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- (n) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, THE FULL LENGTH OF THE WATER MAIN JOINTS SHALL BE ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. IF THE WATER MAIN JOINTS ARE ABOVE THE OTHER PIPELINE, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORMWATERS, OR PRESSURE-TYPE SANITARY SEWERS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

PLAN & PROFILE - ALLEY C -
STA 0+00 TO 5+00
CONSTRUCTION SITE PLAN

ONDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

SCALE	DRAWN:
1" = 40'	A. FRANCIS
PROJECT	DESIGNED:
PUL-048	S. SIERRA-GIL
SHEET	CHECKED:
C821	L. CLASSON
	DATE:
	8/10/2005





PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

- (1) 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.
 - (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, STORMWATER 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 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.
 - (c) 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 STORMWATER 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 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.
 - (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, 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.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

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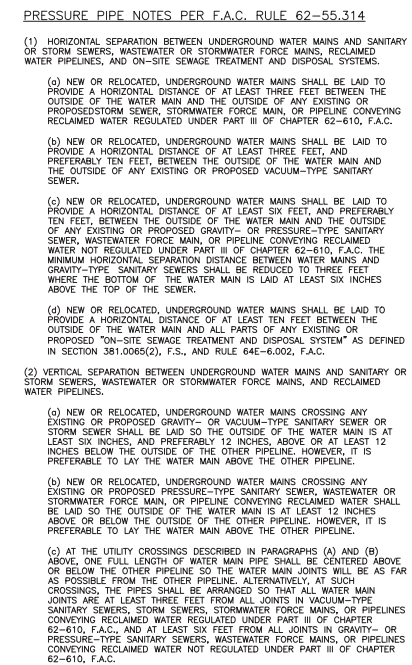
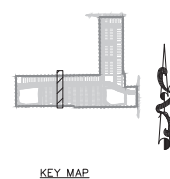
CIVIL ENGINEERING / LAND PLANNING		PLAN & PROFILE - ALLEY C - STA 5+00 TO 9+00 CONSTRUCTION SITE PLAN	
APPIAN ENGINEERING LLC.		ONDICH SOUTH SUBDIVISION CITY OF APOPKA, FLORIDA	
DESIGNED BY: A. FRANCIS	CHECKED BY: S. SERRA-OL	PROJECT: PUL-048	SHEET: C8.22
DATE: 5/19/2025	DATE: 5/19/2025	DATE: 5/19/2025	DATE: 5/19/2025



- (1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPESLINES, 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-STORE SIEVE, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING REGULATED WATER REGULATED UNDER PART II 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 TEN FEET ABOVE 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 PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- (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 THE OUTSIDE OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.006(2), F.S., AND RULE 64C-6.002, F.A.C.
- (2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES
- (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES BELOW THE TOP OF THE OTHER PIPELINE. IF 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 FORCE MAIN OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES BELOW THE TOP 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 FROM THE CROSSINGS AS POSSIBLE. WHEN THERE ARE MULTIPLE CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 12 INCHES AWAY FROM ANY CROSSING. FOR EXISTING SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C., AND EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 79 OF 155



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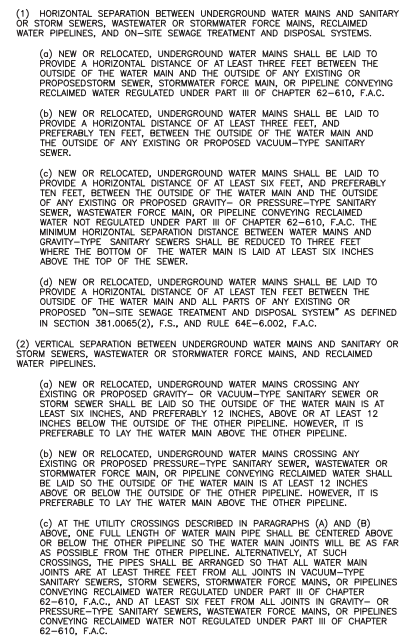
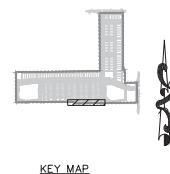
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A graphic of the state of Florida with a circular seal overlaid. The seal features a sunburst design and a crossed hammer and sickle, a symbol associated with the Communist Party.

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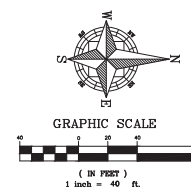
SHEET 80 OF 155

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VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 81 OF 155



KEY MAP

PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

- (1) 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:
- (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, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART II 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 SIX 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 STORM SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART II 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 THE OUTSIDE OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.006(2), F.S., AND RULE 64C-6.002, F.A.C.
- (2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES:
- (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER. WHERE THE SEWER IS AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE, HOWEVER, IT IS PREFERABLE TO LAID 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 STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER. WHERE THE SEWER IS AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE, HOWEVER, IT IS PREFERABLE TO LAID THE WATER MAIN ABOVE THE OTHER PIPELINE.
- (3) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ON 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 CROSSING. WHERE THE CROSSING IS AT AN ANGLE, THE CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS BE AT LEAST 12 INCHES ABOVE THE TOP OF THE OTHER PIPELINE. SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C., AND WASTEWATER OR STORMWATER FORCE MAINS, 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.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

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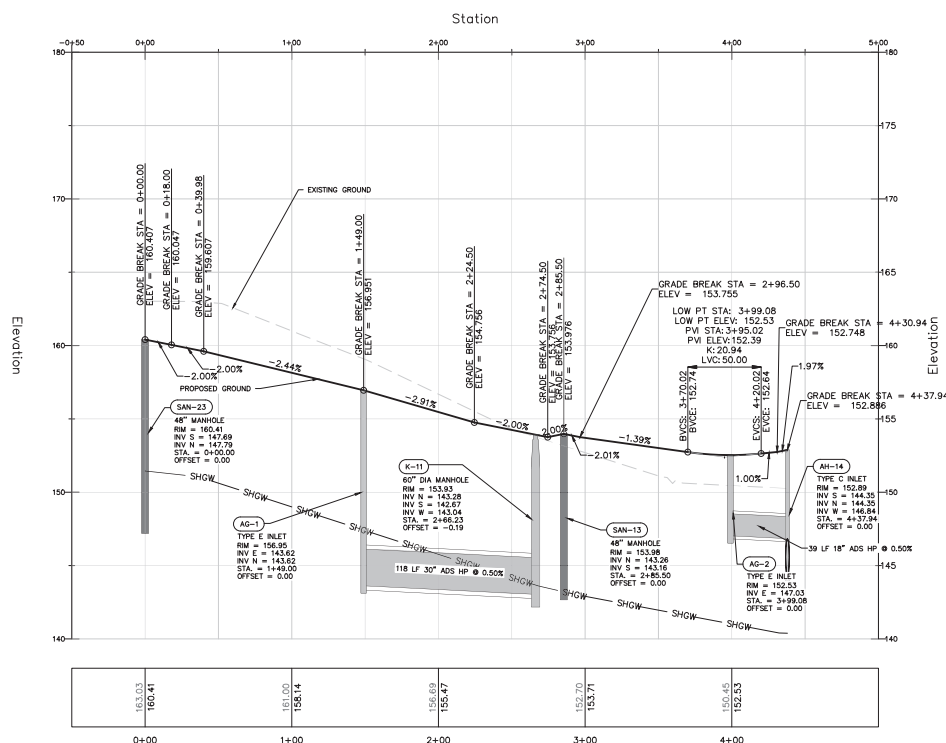
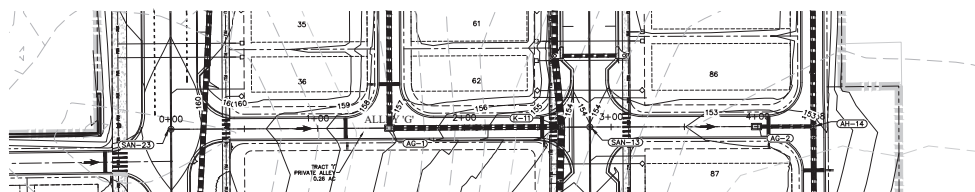
(c) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THIRTY FEET FROM ALL JOINTS IN ALL 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.



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toll-free 1-800-451-7400

NAPHO
National Association of Public Health Officials

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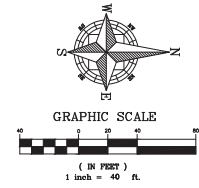
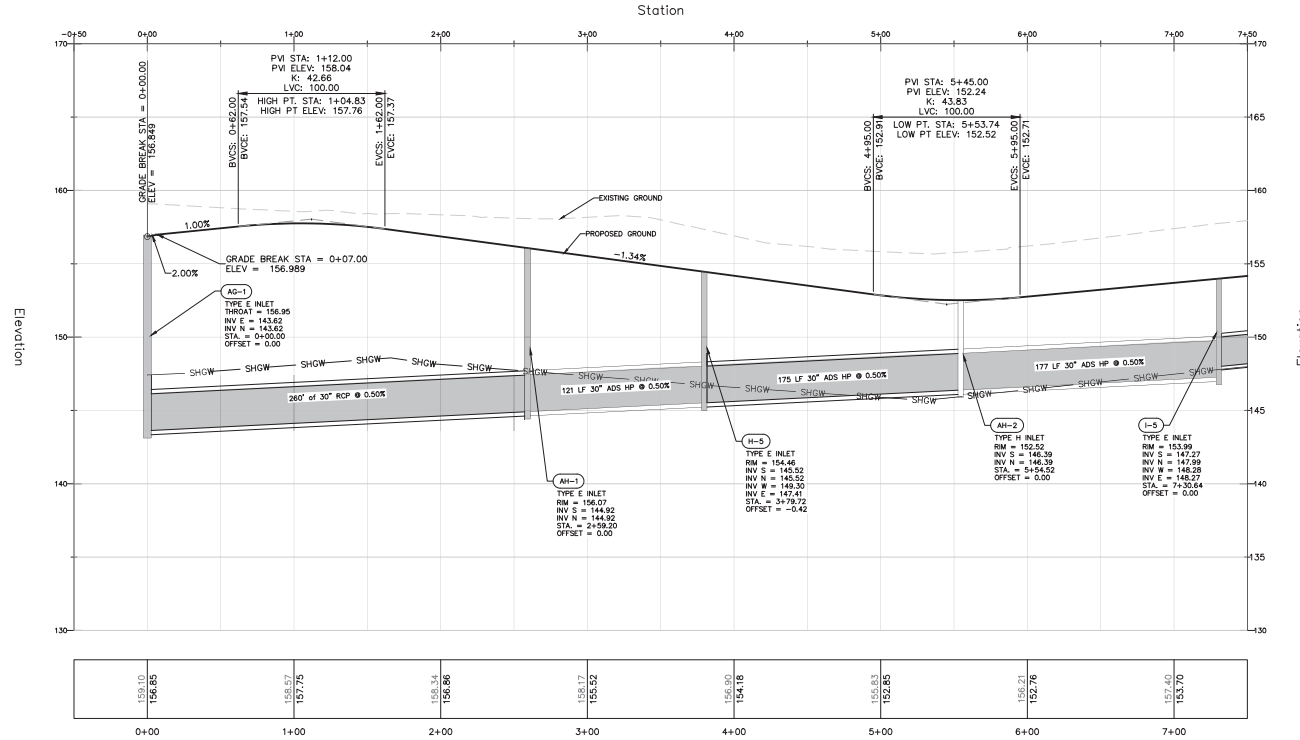
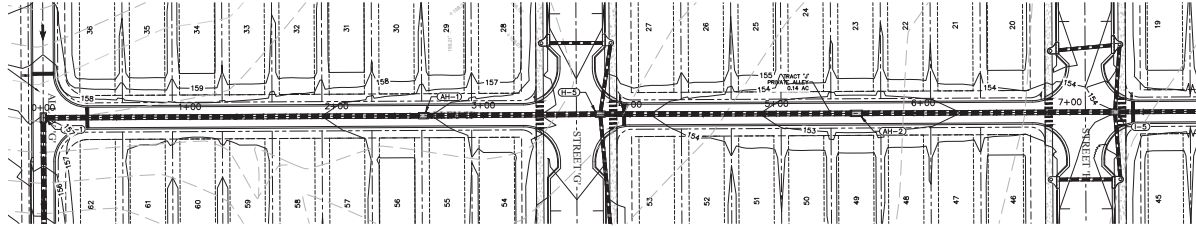


PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

- (1) 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.
- (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, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 66-110, F.A.C.
- (b) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE, OF AT LEAST TWO FEET, BETWEEN THE MAIN, 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 STORM SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 66-110, 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 UNDERGROUND 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 381.006(2), F.S., AND RULE 64C-6.002, F.A.C.
- (2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
- (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY TEN 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 STORMWATER FORCE MAIN, OR RECLAIMED WATER PIPELINE 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. IF THE WATER MAIN JOINTS ARE AT 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, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 66-110, F.A.C., AND PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 66-110, F.A.C.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 84 OF 155



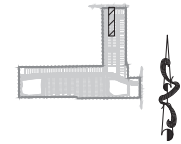
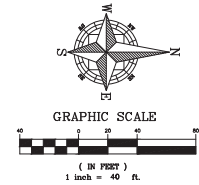
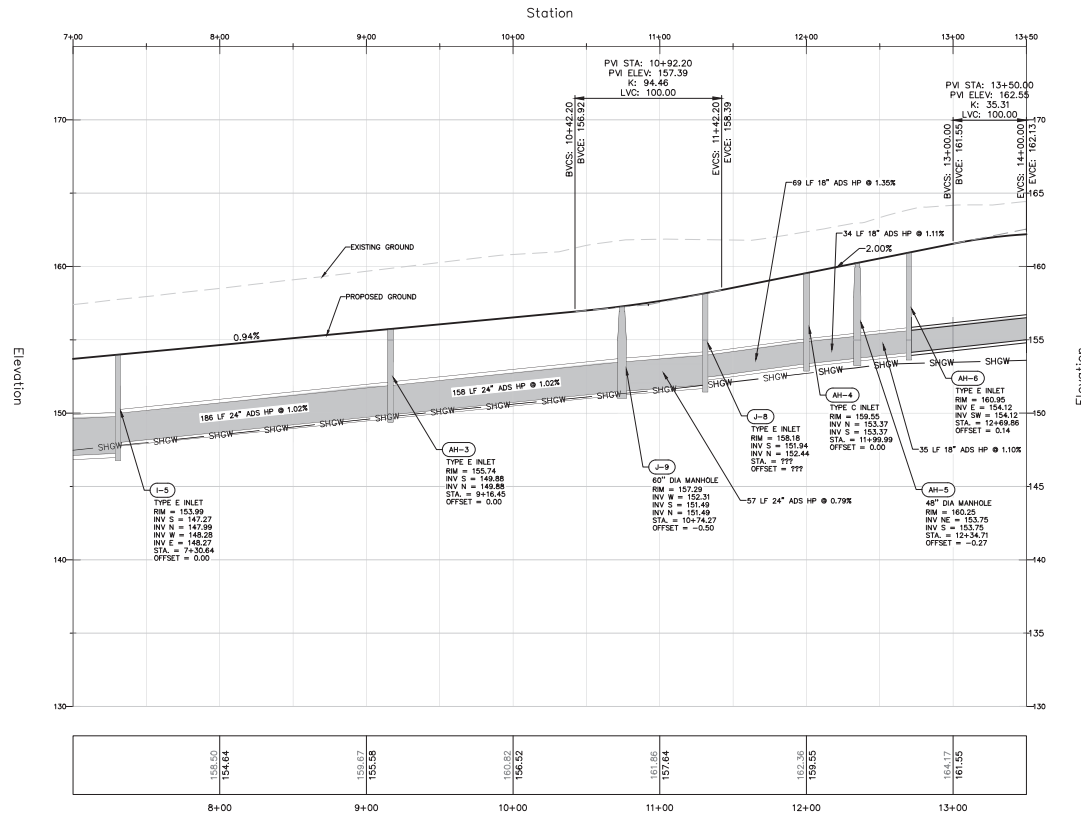
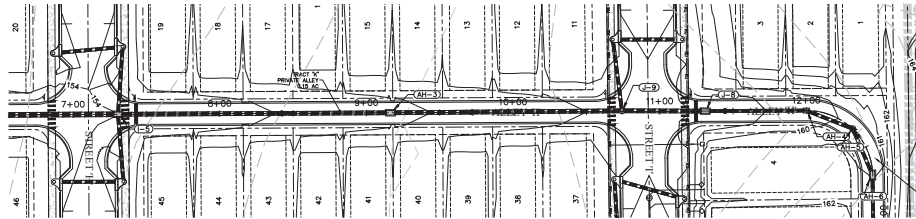
PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

- (1) 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.
 - (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, STORMWATER 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 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.
 - (c) 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 381.006(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 STORMWATER 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 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.
 - (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, 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.

VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 85 OF 155

CIVIL ENGINEERING - LAND PLANNING		PLAN & PROFILE - ALLEY H -	
APPLAN ENGINEERING LLC.		STA 0+00 TO 7+00	
APPLAN.COM - 407.960.5868		CONSTRUCTION SITE PLAN	
2025 Lic. No. 1000725, License Expiration Date: 12/31/2025		ONCH SOUTH SUBDIVISION	
DATE: 4/7/2025		CITY OF APOPKA, FLORIDA	
SCALE: 1" = 40'	DRAWN: A. FRANCIS	PROJECT: PUL-048	SHEET: C8.29
DESIGNED: S. SERRA-OL	CHECKED: CL. CLASSON	DATE: 4/7/2025	



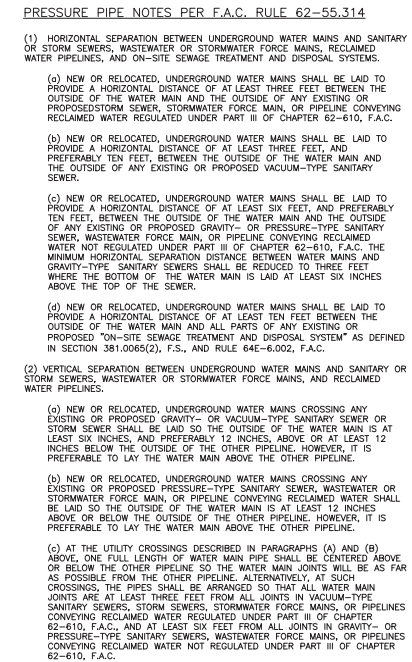
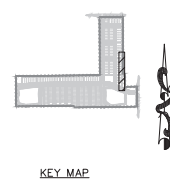
PRESSURE PIPE NOTES PER F.A.C. RULE 62-55.314

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 - (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.
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 - (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 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.
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VERTICAL SCALE: 1" = 4'
HORIZONTAL SCALE: 1" = 40'

SHEET 86 OF 155

CIVIL ENGINEERING / LAND PLANNING		PLAN & PROFILE - ALLEY H -	
APPIAN ENGINEERING LLC.		STA 0+00 TO 13+00	
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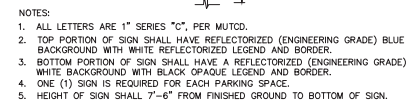
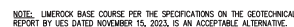
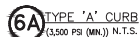
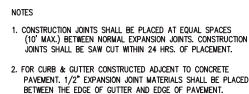
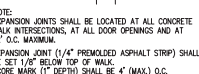
Call 48 hours
toll-free 1-800-455-4545

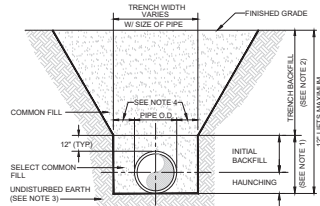
100% Satisfaction
1-800-455-4545



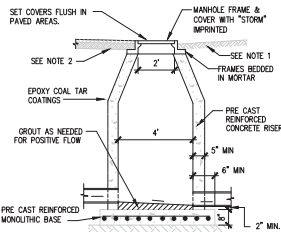
Continental Tires • Goodyear • Firestone, Inc.

[illegible]

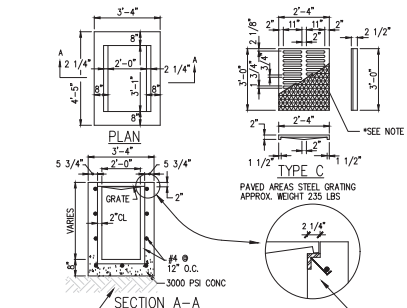




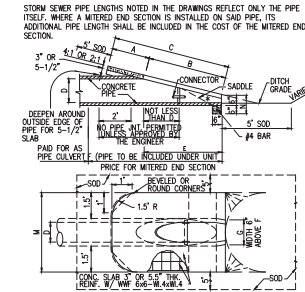
- NOTES:
- INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 - PIPE BEDDING SHALL BE COMPACTED TO 95% (MIN) OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. BEDDING ROCK CAN BE USED FOR BEDDING IF SUBGRADE SOLS ARE TOO WET TO COMPACT, OR AS DIRECTED BY THE ENGINEER.
 - 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (12" MIN.) FOR PIPE DIAMETER 24" AND LARGER.
 - WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 - ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 - FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.



- NOTES:
- IN UNPAVED AREAS TOP OF FRAME SHALL BE 2" ABOVE FINISHED GRADE.
 - ALL IMPAVEMENT STRUCTURES MUST CONFORM TO H20 LOADING STANDARDS.
 - 12 INCHES OF STONE BEDDING (DOT #17 STONE, NON-CALICHEOUS) CAN BE USED FOR BEDDING IF SUBGRADE SOLS ARE TOO WET TO COMPACT. (SEE NOTE 3)

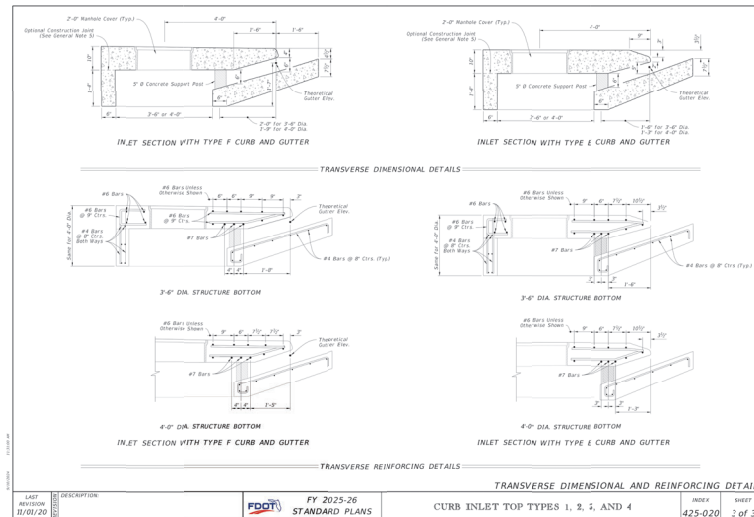
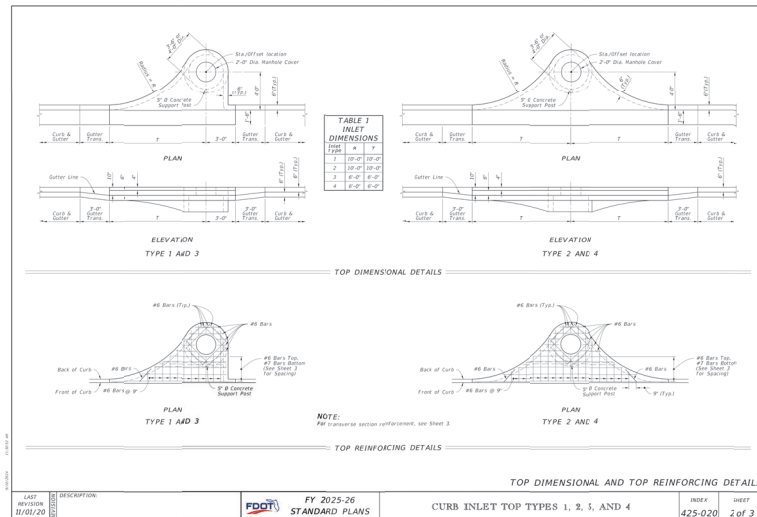


- NOTES:
- FOR ALL USES, USE STEEL GRATE.
 - SUBGRADE SHALL BE COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.



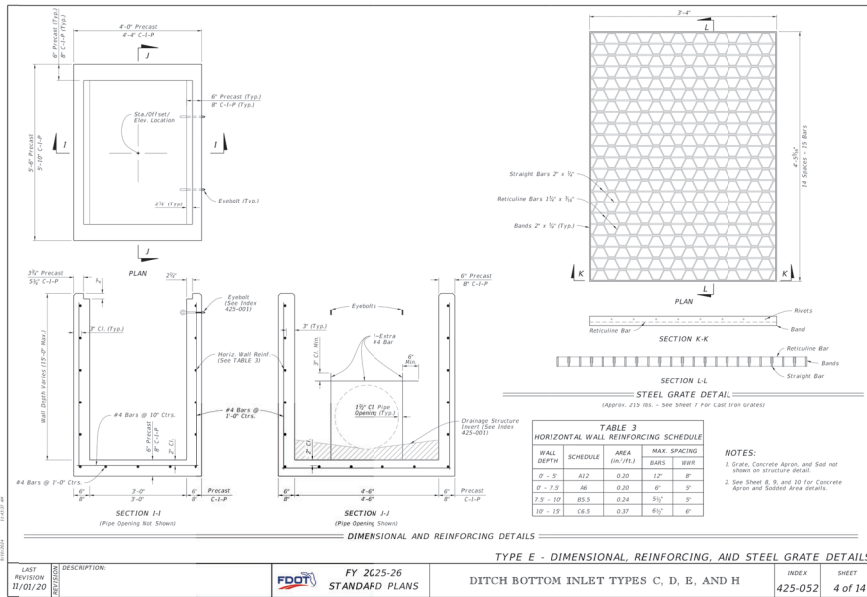
	DIMENSIONS AND QUANTITIES									
	D	A	B	C	E	F	G	H	I	J
2:1 SLOPE	15'	1.92	2.18	4.10	2.00	0	1.92	4.63	7.21	9.79
	18'	2.36	2.76	4.71	2.00	0	1.92	4.63	7.21	9.79
	24'	3.20	3.60	5.55	2.00	0	1.92	4.63	7.21	9.79
	30'	3.96	4.36	6.40	2.00	0	1.92	4.63	7.21	9.79
	36'	4.72	5.12	7.25	2.00	0	1.92	4.63	7.21	9.79
	42'	5.48	5.88	8.10	2.00	0	1.92	4.63	7.21	9.79
	48'	6.24	6.64	8.95	2.00	0	1.92	4.63	7.21	9.79
	54'	7.00	7.40	9.80	2.00	0	1.92	4.63	7.21	9.79
	60'	7.76	8.16	10.65	2.00	0	1.92	4.63	7.21	9.79
	66'	8.52	8.92	11.50	2.00	0	1.92	4.63	7.21	9.79
	72'	9.28	9.68	12.35	2.00	0	1.92	4.63	7.21	9.79
4:1 SLOPE	15'	2.27	4.09	6.36	4.03	8	1.92	4.63	7.21	9.79
	18'	2.84	5.19	7.48	5.00	8	1.92	4.63	7.21	9.79
	24'	3.59	6.58	9.17	5.00	8	1.92	4.63	7.21	9.79
	30'	4.34	7.97	10.86	5.00	8	1.92	4.63	7.21	9.79
	36'	5.09	9.36	12.55	5.00	8	1.92	4.63	7.21	9.79
	42'	5.84	10.75	14.24	5.00	8	1.92	4.63	7.21	9.79
	48'	6.59	12.14	15.93	5.00	8	1.92	4.63	7.21	9.79
	54'	7.34	13.53	17.62	5.00	8	1.92	4.63	7.21	9.79
	60'	8.09	14.92	19.31	5.00	8	1.92	4.63	7.21	9.79
	66'	8.84	16.31	21.00	5.00	8	1.92	4.63	7.21	9.79
	72'	9.59	17.70	22.69	5.00	8	1.92	4.63	7.21	9.79

*SLOPE- 4:1 METER - TO C PIPE FOR PIPES 18" AND SMALLER
2:1 METER - TO C PIPE FOR PIPES 18" AND SMALLER
1:1 FOR PIPES 24" AND LARGER

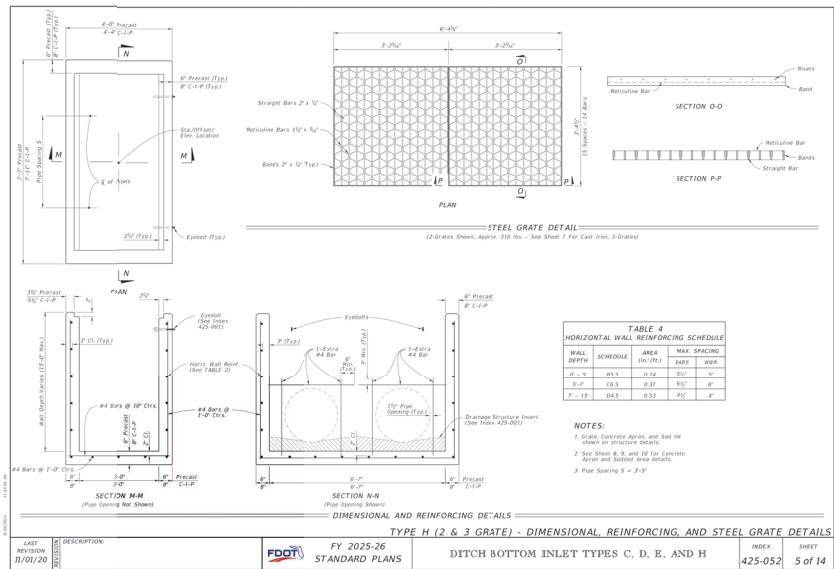


CIVIL ENGINEERING & LAND PLANNING		APPIAN ENGINEERING LLC.		APPIAN.COM - 407.560.5868	
PROJECT: ORDINAL SOUTH SUBDIVISION		SHEET: 91 OF 155		DATE: 2/25/2025	
DRAWN: A. FRANCIS		DESIGNED: S. SIERRA-OL		CHECKED: CLAUSSON	
SCALE: N.T.S.		PROJECT: PUL-048		SHEET: C10.0	
APPIAN ENGINEERING		APPIAN ENGINEERING		APPIAN ENGINEERING	
APPIAN ENGINEERING		APPIAN ENGINEERING		APPIAN ENGINEERING	

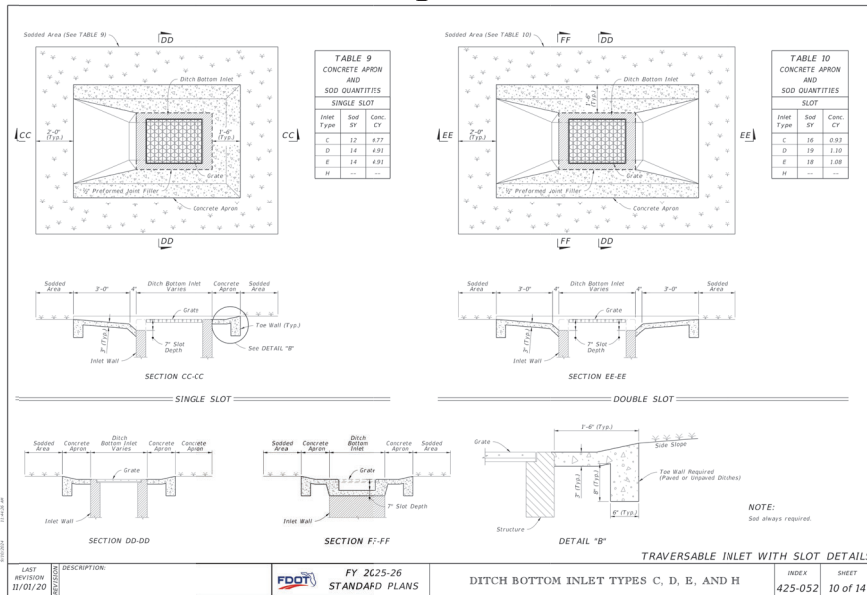




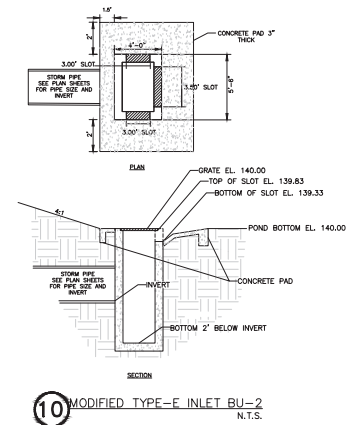
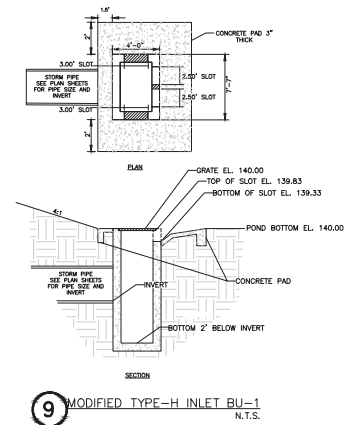
6 TYPE E INLET
N.T.S.



7 TYPE H INLET
N.T.S.

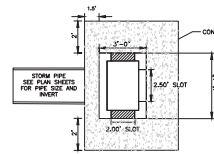


8 CONCRETE APRON FOR BUBBLE UP STRUCTURES
N.T.S.

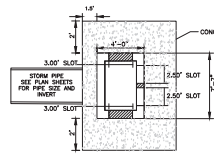


SHEET 92 OF 155

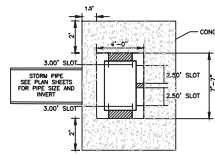
CIVIL ENGINEERING / LAND PLANNING		APPIAN ENGINEERING LLC.		1501 W. 10TH AVE. SUITE 200 APOPKA, FL 32703 APPIAN.COM 407.960.1988	
DATE	2/25/2025	BY	APPIAN	DATE	2/25/2025
SCALE	N.T.S.	PROJECT	PUL-048	DATE	2/25/2025
DRAWN	A. FRANCIS	DESIGNED	S. SIERRA-OL	CHECKED	CL. CLARSON
DRAINAGE DETAILS		CONSTRUCTION SITE PLAN		ONCH SOUTH SUBDIVISION	
CITY OF APOPKA, FLORIDA		CITY OF APOPKA, FLORIDA		CITY OF APOPKA, FLORIDA	



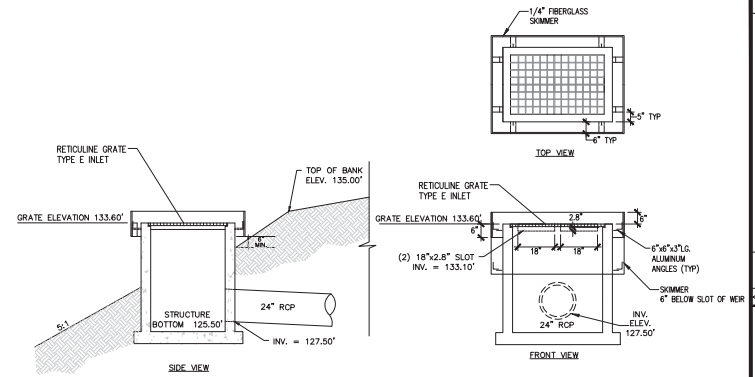
11 MODIFIED TYPE-C INLET BU-3
N.T.S.



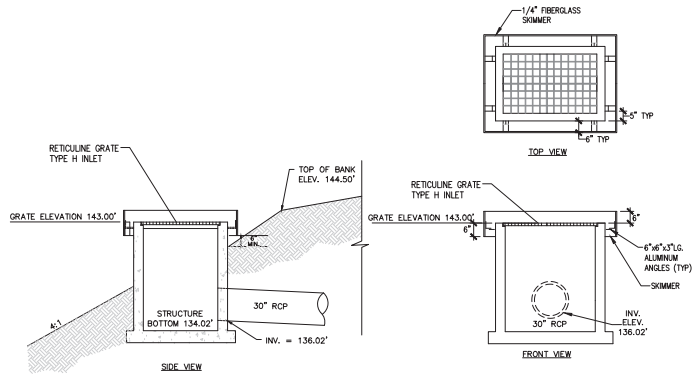
12 MODIFIED TYPE-H INLET BU-4
N.T.S.



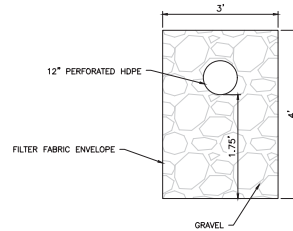
13 MODIFIED TYPE-H INLET BU-5
N.T.S.



15 DS-1 CONTROL STRUCTURE
N.T.S.

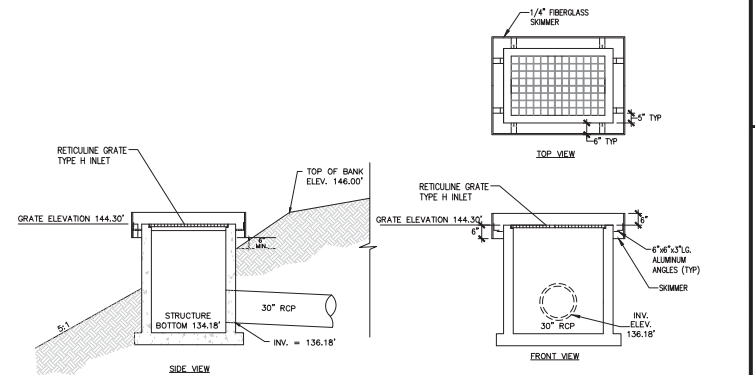


16 DS-2 CONTROL STRUCTURE
N.T.S.

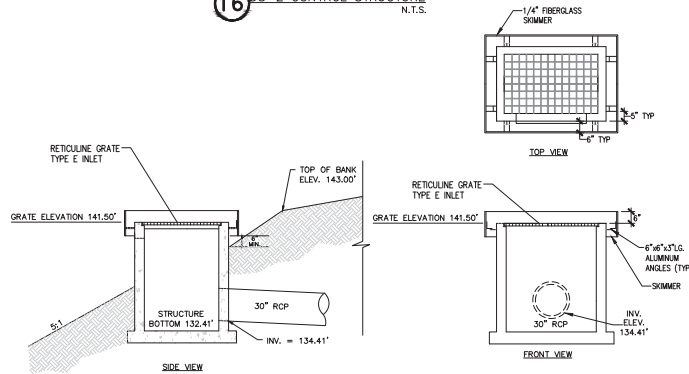


- NOTES:**
1. GRAVEL SHALL BE GRADES 56 OR 57 AND SHALL MEET THE REQUIREMENTS OF FDOT SECTIONS 01-2 OR 901-3.
 2. FILTER FABRIC SHALL BE TYPE D-3 (SEE FDOT INDEX NO. 199)
 3. EXPLORATION PIPE SHALL BE 12" DIAMETER TUBING MEETING AASHTO M252 AND ASTM F405.62A WITH POLYESTER KNITTED FILTER SOCK MEETING ASTM D3887 AND ASTM D1682.

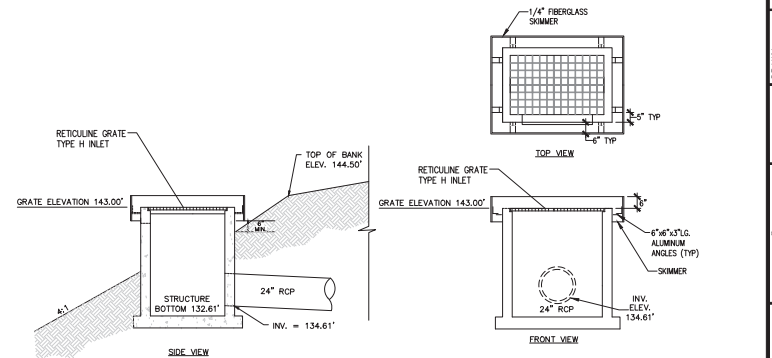
14 EXILTRATION PIPE
N.T.S



17 DS-3 CONTROL STRUCTURE
N.T.S.



18 OS-4 CONTROL STRUCTURE
N.T.S.



19 OS-5 CONTROL STRUCTURE
N.T.S.

GENERAL NOTES:

[illegible][illegible]

APPENDIX A	STANDARD DRAWINGS	GENERAL
DATE: February 11, 2011	SEPARATION REQUIREMENTS FOR WATER WASTEWATER AND RECLAIMED WATER MAINS	FIGURE A116

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS									
PROPOSED UTILITY	POTABLE WATER		RECLAIMED WATER		WASTEWATER (GRAVITY & FM)		STORM SEWER		
	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	
POTABLE WATER	3'	12"	3'	12"	6'	12"	3'	12'/18"	1.3
RECLAIMED WATER	3'	NOTE 1.3	3'	NOTE 1	3'	NOTE 1	12"	3'	NOTE 1.3
WASTEWATER (GRAVITY & FM)	6'	12"	3'	12"	3'	12"	12"	3'	NOTE 1.3
RIGHT OF WAY	3'	NOTE 1	N/A	3'	N/A	3'	N/A	N/A	N/A

[illegible]

- [illegible]

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								

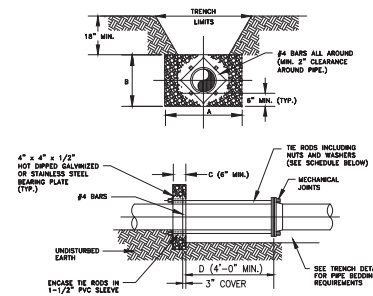
* ONLY RESTRAIN BRANCH PIPE FOR TEES. ONLY RESTRAIN LARGER PIPE FOR REDUCERS
 ** LENGTH ALONG RUN ASSUMED TO BE 18'

NOTES:

1. FITTINGS SHALL BE DUCTILE IRON RESTRAINED JOINT TYPE, FM FITTINGS TO BE LISTED 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 FOR THE FOLLOWING ASSUMPTIONS:

PIPE TYPE OF PIPE:	WIDENING PRESSURE: 150 P.S.I.*	** FM = 150 P.S.I. /
SOIL DESIGNATION: <u>MEDIUM SILT</u>		WM OR RWM = 150 P.S.I.
LAYING CONDITIONS:		
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)



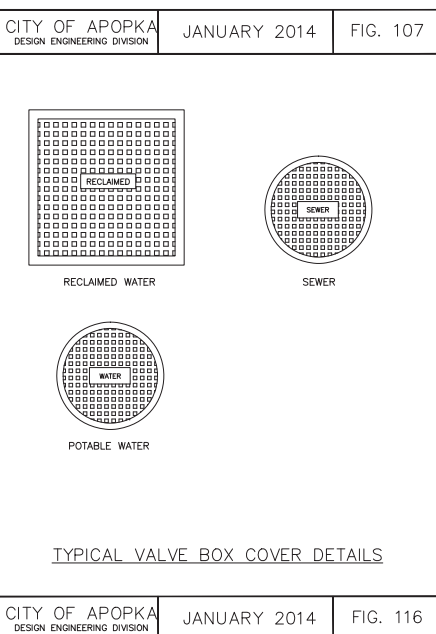
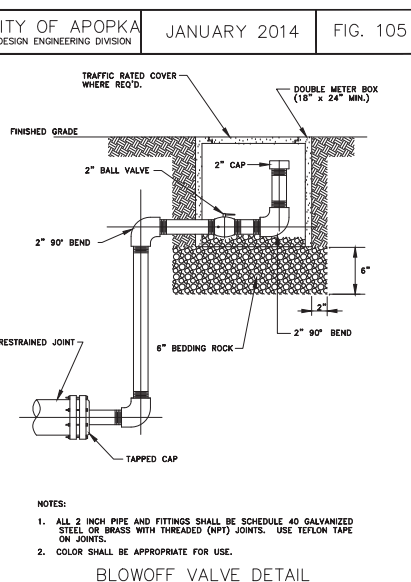
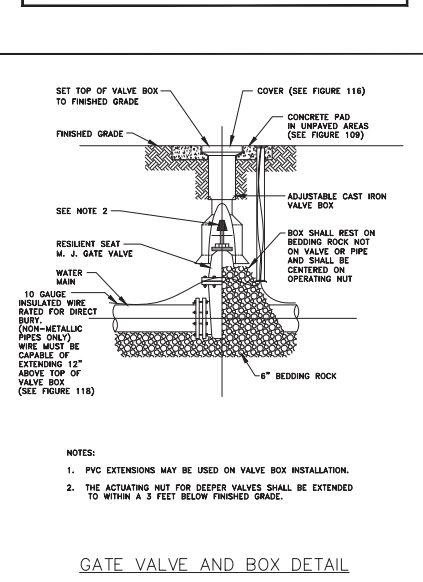
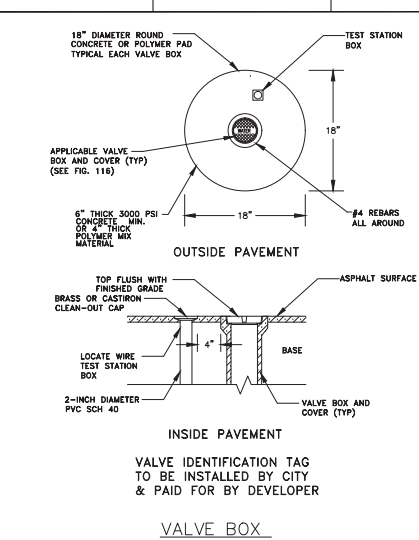
NOTES:

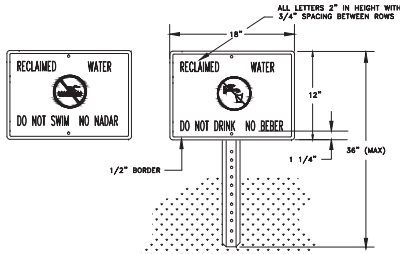
1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 2500 P.S.I.
3. BEDDING, BACKFILL, AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
6. DESIGN PRESSURE: 150 P.S.I.

PIPE SIZE (INCHES)	DIMENSIONS (FT.)				THE ROOF
	A	B	C	D	
6	2.0	2.0	1.0		2/6
8	2.5	2.5	1.0		2/6
10	2.5	2.0	1.0		2/6
12	3.0	2.0	1.0		2/6
16	4.0	4.0	1.5		2/6
20	5.0	5.0	1.5		2/6
24	6.0	6.0	1.5		2/6

NOTE: THRUWAY BLOCK AREAS TO BE COMPUTED ON BASIS OF ____ 2 ____
 LBS. PER SQ. FT. SOIL RESTRAINT (1,200)
 BEARING. SEE N
 * TO BE COMPLETED BY ENGINEER.

WATER MAIN THRUST COLLAR DETAIL





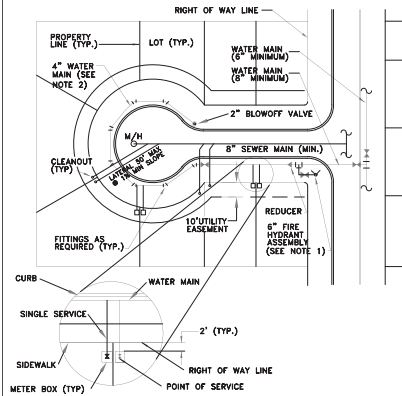
- NOTES:
- HEIGHT OF SIGN WILL DEPEND ON LOCATION AND SURROUNDING LANDSCAPE PLANT TYPES. IN ALL CASES, THE SIGN SHALL BE VISIBLE TO THE PUBLIC.
 - BACKGROUND SHALL BE WHITE. LETTERS AND FIGURES SHALL BE BLACK. PROHIBITIVE SYMBOL SHALL BE RED.
 - ENGINEERING GRADE REFLECTIVE MATERIALS SHALL BE USED.
 - POST SHALL BE U CHANNEL 12 FT. 2 LB. HOT ROLLED HIGH TENSILE WELD OR BULLET STEEL, HOT DIP GALVANIZED PER ASTM A-123.
 - MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
 - 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



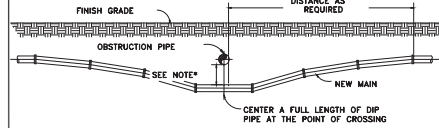
- NOTES:
- ANCHORING TYPE 90° BEND SHALL ONLY BE USED WHERE RIGHT-OF-WAY CONSTRUCTION WILL NOT ALLOW INSTALLATION OF A STRAIGHT ASSEMBLY.
 - POTABLE WATER MAINS SHALL BE MINIMUM 4" FOR THE LAST 500' OF A CUL-DE-SAC NOT SERVING A HYDRANT.

TYPICAL SERVICE LOCATION DETAIL

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

MAY 2022

FIG. 404



NOTES:

- 18" MINIMUM CLEARANCE FOR WATER, SEWER AND RECLAIMED WATER MAIN CROSSINGS
- 12" MINIMUM CLEARANCE REQUIRED FOR OTHER TYPE UTILITY CROSSINGS.
- SEE ENCASUREMENT DETAIL IF MINIMUM CLEARANCE CANNOT BE OBTAINED.

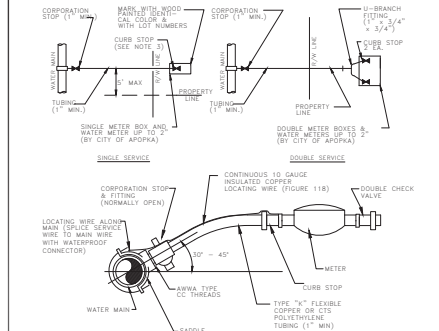
* CONSTRUCT UNIFORM PIPE DEFLECTION
NOT TO EXCEED 75% OF MANUFACTURER RECOMMENDED
MAXIMUM DEFLECTION PER PIPE JOINT

UTILITY CROSSING PIPE DEFLECTION DETAIL

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 117



- NOTES:
- ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT TYPE CONNECTIONS.
 - NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
 - EACH SERVICE LINE 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" GRADE WITH THE TOP PAINTED BLUE FOR POTABLE WATER AND PURPLE FOR SEWER/WATER AND MARKED WITH THE NUMBER OF THE LOT(S) TO BE SERVED.

SPUR SERVICE LINE SHALL BE INSTALLED

BLUE TO INDICATE POTABLE WATER, OR PURPLE FOR SEWER/WATER, OR RED FOR GAS.

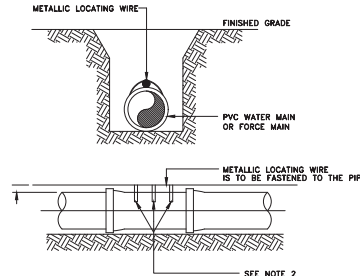
IN A MINIMUM 2" PVC SLEEVE.

WATER SERVICE CONNECTION DETAIL

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 405



NOTES:

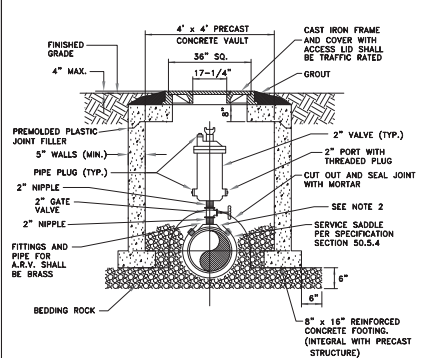
- PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 AWG-SOLID CCS REINFORCED TRACER WIRE-INSULATED 30 MIL HOPE - 30 VOLT MFG. BY COPPERHEAD INDUSTRIES, LLC OR EQUAL) CAPABLE OF DETECTION BY A CABLE LOCATOR.
- SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND ATTACHED WITH DUCT TAPE OR NYLON STRAPS AT 3 LOCATIONS PER JOINT. LOCATING WIRE SHALL TERMINATE AT THE TEST STATION BOX AS SHOWN IN FIG. 109.
- BE CAPABLE OF EXTENDING 12" ABOVE TOP OF TEST STATION BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
- SPLICES SHOULD BE MADE USING STANDARDS AND PRODUCTS DESIGNED FOR DIRECT BURIAL CONDUCTORS.
- 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:

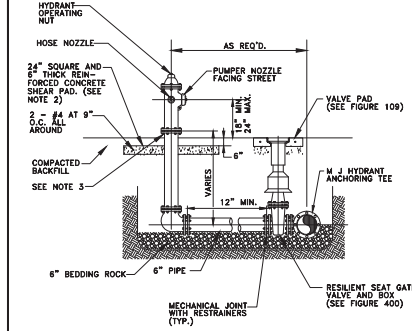
- ABOVE DETAIL IS BASED ON 2 INCH COMBINATION AIR/VACUUM RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES TO BE DETERMINED BY THE ENGINEER AND APPROVED BY THE CITY PRIOR TO INSTALLATION.
- THE MINIMUM DIMENSION FROM TOP OF PIPE TO FINISHED GRADE SHALL BE 4.0 FEET.
- 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:

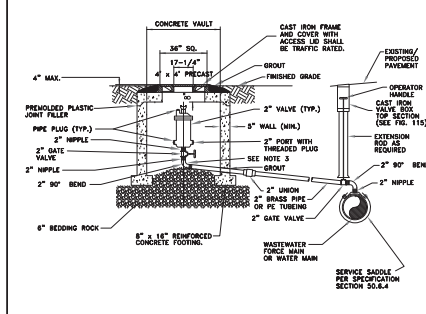
- FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.
- THE SHEAR PAD SHALL BE RECESSED SIX (6) INCHES BELOW THE FINISHED GRADE AND THE RECESSED SECTION SODDED.
- CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A TWELVE (12) INCH MINIMUM.
- FIRE 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:

- 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.
- THE MINIMUM DIMENSION FROM ELBOW INVERT TO FINISHED GRADE SHALL BE 4.0 FEET.
- THE AIR RELEASE VALVE SHALL BE ADEQUATELY SUPPORTED.
- 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

NO.	DATE	DESCRIPTION	BY
1	12/15/2014	REVISED CITY OF APOPKA COMMENTS DATED 12/15/2014	SPS
2	12/17/2014	REVISED CITY OF APOPKA COMMENTS DATED 12/17/2014	SPS

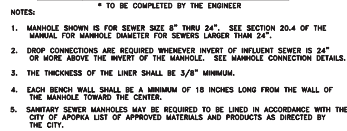
CITY ENGINEERING & LAND PLANNING
APPIAN ENGINEERING LLC.
APPIAN.COM - 407.560.5868
2025 Lic. No. 12007, State of Florida, Professional Engineer

UTILITY DETAILS
CONSTRUCTION SITE PLAN
ONDICH SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

SCALE	DATE	SHEET	C11.1
N.T.S.	4/27/2025	PUL-048	

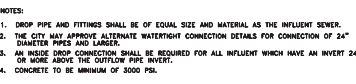


SHEET 95 OF 155



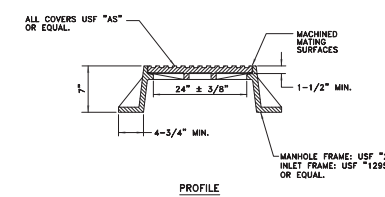
TYPICAL MANHOLE

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 200
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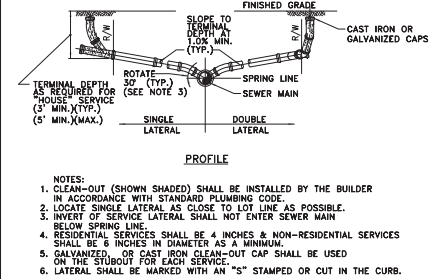
MANHOLE CONNECTION DETAILS

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2015	FIG. 201
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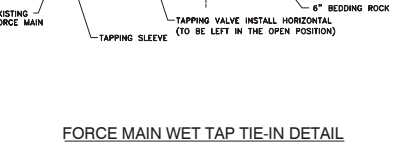
STANDARD MANHOLE FRAME AND COVER

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 202
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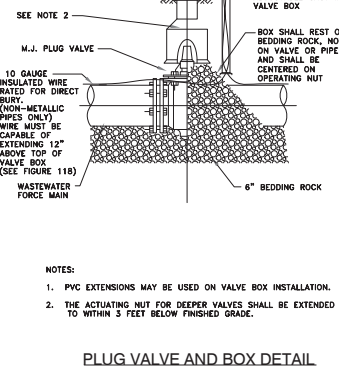
SERVICE LATERAL DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 204
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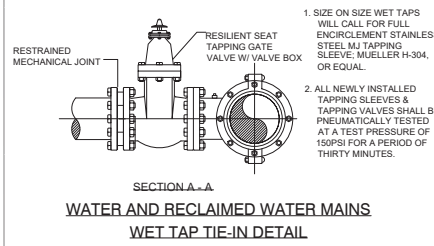
FORCE MAIN WET TAP TIE-IN DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 206
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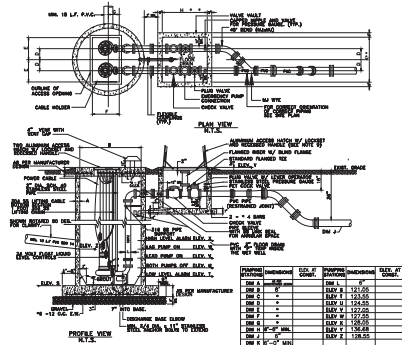
PLUG VALVE AND BOX DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 400 A
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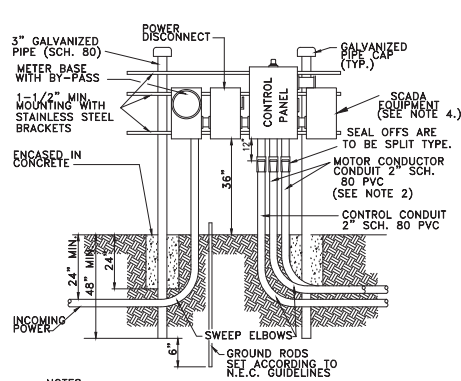


WATER AND RECLAIMED WATER MAINS
WET TAP TIE-IN DETAIL

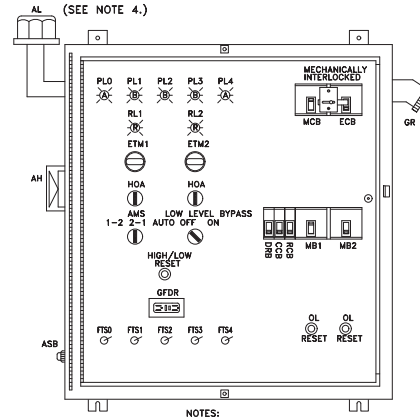
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 406
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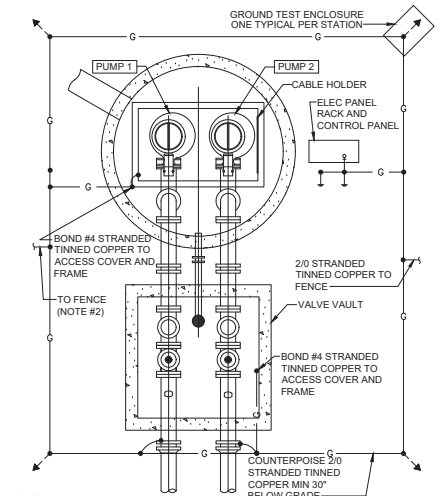
PUMP STATION DETAIL



DUPLIX PUMP STATION CONTROL PANEL
INSTALLATION DETAIL



DUPLIX PUMP STATION CONTROL
PANEL FRONT LAYOUT



PUMP STATION GROUNDING (TYPICAL)

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 301

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 302

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

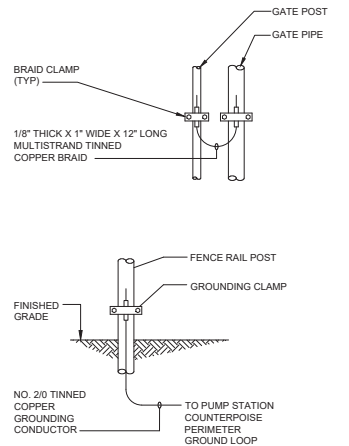
JANUARY 2014

FIG. 303

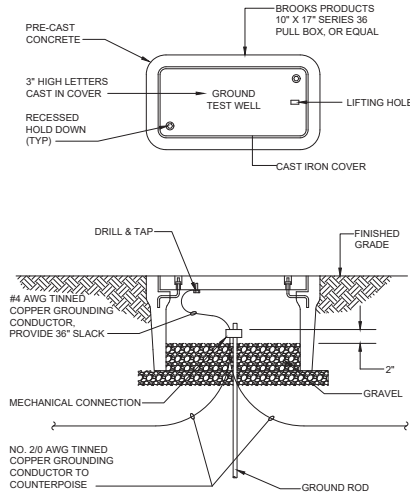
CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

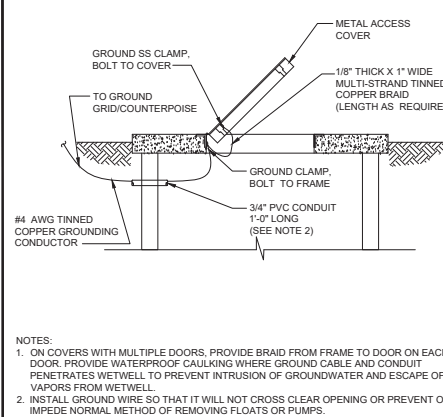
FIG. 307



FENCE POST GROUNDING (TYPICAL)



GROUND TEST WELL



COVER AND DOOR GROUNDING

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 307 A

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 307 B

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

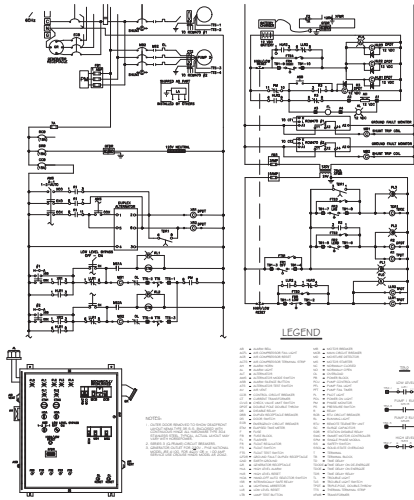
FIG. 307 C

LIFT STATION DETAILS
CONSTRUCTION SITE PLAN
ONDCI SOUTH SUBDIVISION
CITY OF APOPKA, FLORIDA

SCALE
N.T.S.
PROJECT
PUL-048
SHEET
C11.3

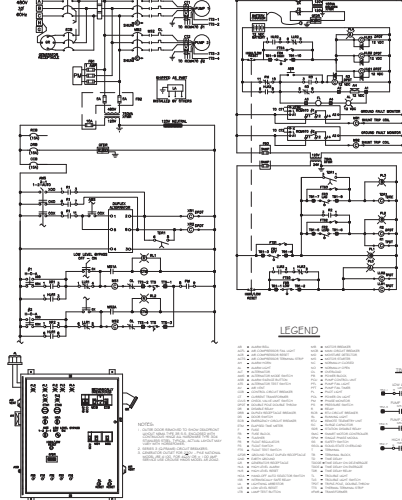
DRAWN
A. FRANCIS
DESIGNED
S. SIERRA-OL
CHECKED
PUL-048
LOCATION
CLASSIFICATION
DATE
4/27/2025

APPIAN ENGINEERING
No. 90745
STATE OF FLORIDA
PROFESSIONAL ENGINEER



DUPLEX PUMP CONTROL PANEL
GENERAL LAYOUT & SCHEMATIC
(230V-3PH)

WITH GENERATOR RECEPTACLE



DUPLEX PUMP CONTROL PANEL
GENERAL LAYOUT & SCHEMATIC
(480V-3PH)

WITH GENERATOR RECEPTACLE

AB - ALARM BELL	MB - MOTOR BREAKER
ACF - AIR COMPRESSOR FAIL LIGHT	MCB - MAIN CIRCUIT BREAKER
ACTS - AIR COMPRESSOR TEST SWITCH	MD - MOTOR DETECTOR
AL - ALARM LIGHT	MS - MOTOR STARTER
ALH - ALARM HORN	NC - NORMALLY CLOSED
ALN - ALARM NOT	NO - NORMALLY OPEN
AMS - ALTERNATOR MODE SWITCH	OL - OVERLOAD
ASB - ALARM SILENCE BUTTON	PCU - PUMP CONTROL UNIT
AV - AIR VENT	PFL - PUMP FAIL LIGHT
CCB - CONTROL CIRCUIT BREAKER	PTI - PUMP LIGHT TIMER
CVLS - CURRENT TRANSFORMER	POL - POWER ON LIGHT
DPDT - DOUBLE-POLE, DOUBLE-THROW	PM - PHASE MONITOR
DR - DISABLING RELAY	PS - PRESSURE SWITCH
DRB - DUPLEX RECEPTACLE BREAKER	R - RELAY
DS - DOOR SWITCH	RCB - RTU CIRCUIT BREAKER
ECB - EMERGENCY CIRCUIT BREAKER	RL - RUNNING LIGHT
ETM - ELAPSED TIME METER	RTU - REMOTE TELEMETRY UNIT
FB - FUSE BLOCK	SC - SURGE CAPACITOR
FL - FLASHER	SDR - STATION DISABLE RELAY
FR - FLOW REGULATOR	SMC - SMART MOTOR CONTROLLER
FS - FLOW SWITCH	SPM - SINGLE PHASE MODULE
FTS - FLOAT TEST SWITCH	SS - SAFETY SWITCH
GFR - GROUND FAULT DUPLEX RECEPTACLE	SSOL - SOLID-STATE OVERLOAD
GR - GENERATOR RECEPTACLE	TB - TERMINAL BLOCK
GRD - EARTH GROUND	TD - TIME DELAY
HL - HIGH LEVEL ALARM	TDDE - TIME DELAY ON DE-ENERGIZE
HLR - HIGH LEVEL RESET	TDRE - TIME DELAY ON RE-ENERGIZE
HOS - HAND-OFF-AUTO SELECTOR SWITCH	TDR - TIME DELAY RELAY
ISR - INTRINSICALLY SAFE RELAY	TR - TROUBLE RELAY
LA - LIGHTNING ARRESTOR	TRH - TROUBLE HIGH
LIR - LOW LEVEL RESET	TRT - TRIP-POLE, DOUBLE-THROW
LTB - LAMP TEST BUTTON	TS - THERMAL TERMINAL STRIP
	XFMR - TRANSFORMER

COMPONENT LEGEND

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 305 A

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 305 C

CITY OF APOPKA
DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 306

CONTROL PANEL AND ELECTRICAL INFORMATION IS FOR CONCEPTUAL PURPOSES. LIFT STATION MANUFACTURER IS REQUIRED TO PROVIDE SIGNED AND SEALED DRAWINGS FROM AND ELECTRICAL ENGINEER FOR CONTROL PANEL AND ELECTRICAL SPECIFICATIONS. THE ENGINEER OF RECORD'S SIGNATURE AND SEAL ON THIS SHEET IS ONLY FOR THE CIVIL ENGINEERING PORTION.

NOTES:
1. CONTRACTOR TO GRADE LIFT STATION SITE SUCH THAT WET WELL AND VALVE VAULT ARE A MIN OF 3" ABOVE SURROUNDING GRADE ELEVATION. ALSO, DRAINAGE IS SLOPED AWAY FROM THESE STRUCTURES.
2. THE ELECTRICAL DETAILS ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY AND THE SUPPLIER SHALL PROVIDE FINAL SIGNED & SEALED DRAWINGS FOR ALL ELECTRICAL WORK.
3. CONTRACTOR TO VERIFY ELECTRICAL SERVICE PHASE, CURRENT AND VOLTAGE AVAILABILITY AND INCLUDE VERIFICATION OF SUCH IN SHOP DRAWING SUBMITTAL PRIOR TO PURCHASE AND/OR INSTALLATION OF PUMP AND CORRELATED ELECTRICAL LIFT STATION COMPONENTS.



SHEET 98 OF 155

CIVIL ENGINEERING / LAND PLANNING		APPIAN ENGINEERING LLC.		DESIGNER'S SIGNATURE	
LIFT STATION DETAILS		CONSTRUCTION SITE PLAN		DATE: 4/2/2025	
ONDICH SOUTH SUBDIVISION		CITY OF APOPKA, FLORIDA		SHEET: C11.4	
SCALE: N.T.S.		PROJECT: PUL-048		SHEET: C11.4	
DRAWN: A. FRANCIS		DESIGNED: S. SIERRA-OL		CHECKED: L. CLARSON	
PROJECT: PUL-048		SHEET: C11.4		DATE: 4/2/2025	
APPIAN ENGINEERING		REGISTERED PROFESSIONAL ENGINEER		STATE OF FLORIDA	
No. 90745		Professional Engineer		SHEET 98 OF 155	