



## **APOPKA DEVELOPMENT REVIEW COMMITTEE AGENDA**

**February 28, 2024 9:00 AM**

**Apopka City Hall Council Chambers**

### **SITE PLAN:**

#### **CONSTRUCTION SITE PLAN**

1. 529 Johns Road - Construction Site Plan (CSP), 1st Submittal

### **SUBDIVISION:**

#### **CONSTRUCTION SITE PLAN**

1. The Ridge Parcel 2 - Revision to Construction Site Plan (CSP Revision), 1st Submittal

### **DISCUSSION**

#### **ADJOURNMENT**

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

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

Map of Springdale, Minnesota, showing the location of the proposed site. The site is marked with a square and a circle, located south of Marshall Lake Rd and west of S Bradshaw Rd. Major roads include W Main St (441) and W Orange St (441). Other roads shown are W 1st St, W 2nd St, W 3rd St, W 4th St, W 5th St, W 7th St, W 8th St, and W Michael Gladden Blvd. The city name 'SPRINGDALE' is prominently displayed. A scale bar indicates 1 inch equals 1000 feet.

## An aerial photograph of a residential neighborhood. A white rectangular label with the word "SITE" in black capital letters is positioned in the upper left quadrant. A black line with an arrow points from this label to a specific building. This building is highlighted by a black rectangular box and has a small circle drawn around it. The building is a single-story structure with a light-colored roof. The surrounding area includes other houses with red and grey roofs, green trees, and a road on the left side. In the bottom right corner, there is a scale bar indicating "SCALE: 1" = 300'". A north arrow is located in the top right corner of the image.

**LEGAL DESCRIPTION FROM SURVEY PREPARED BY MCMAHON SURVEYING AND MAPPING LLC, DATED 09/24/23:**  
LOT 3, JOHNS ROAD COMMERCE PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 73, PAGE 36, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

MCMAHON SURVEYING & MAPPING, LLC  
1690 TALL OAKS ROAD  
DELAND, FL 32720  
PHONE: (407) 399-2044  
EMAIL: THOMASMCMAHONSURVEYOR@OUTLOOK.COM

**CITY OF APOPKA, FL**  
**SITE CONSTRUCTION PLANS**  
 PARCEL ID #'S 09-21-28-3986-00-030 &  
 09-21-28-5233-00-001

|                                                 |                    |
|-------------------------------------------------|--------------------|
| <u>COVER SHEET</u>                              | <u>C1.0</u>        |
| <u>GENERAL NOTES</u>                            | <u>C2.0 - C2.1</u> |
| <u>EXISTING CONDITIONS PLAN</u>                 | <u>C3.0</u>        |
| <u>SEDIMENTATION &amp; EROSION CONTROL PLAN</u> | <u>C4.0 - C4.1</u> |
| <u>PAVING, GRADING &amp; DRAINAGE PLAN</u>      | <u>C5.0</u>        |

**RITTER CIVIL**  
**ENGINEERING ■ PLANNING**  
460 PINEY CROFT LANE, NAITLAND, FL 32751  
407-436-7276 ■ [WWW.RITTERCIVIL.COM](http://WWW.RITTERCIVIL.COM)

**MCNULTY GROUP**

**COVER SHEET**  
**529 JOHNS ROAD**

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SHEET:  
**C1.0**





E. RECLAIM WATER SYSTEM TESTING, AT A MINIMUM, SHALL INCLUDE:

- PRESSURE AND LEAKAGE TEST: THE CONTRACTOR SHALL PERFORM A HYDROSTATIC PRESSURE AND LEAKAGE TEST OF THE WATER SYSTEM IN ACCORDANCE WITH AWWA STANDARDS C900, C905, OR M23 AS APPLICABLE TO PIPE MATERIAL, LOCAL AND/OR UTILITY PROVIDER REGULATIONS. RECLAIM WATER MAINS SHALL BE TESTED AT 250 PSI FOR A MINIMUM OF 2 HOURS, AND MEET AWWA STANDARDS FOR THEIR RESPECTIVE MATERIAL.

F. SANITARY GRAVITY SEWER SYSTEM TESTING AND INSPECTION, AT A MINIMUM, SHALL INCLUDE:

- LAMPING AND VIDEO INSPECTION: THE CONTRACTOR SHALL LAMP AND VIDEO INSPECT EACH MAIN IN ACCORDANCE WITH THE UTILITY PROVIDER REQUIREMENTS FOR ALIGNMENT, GRADE, VARIATIONS, JOINT SEPARATION, LEAKS, DEFLECTION, DAMAGE OR OTHER DEFECTS IN THE PIPE MATERIALS OR THEIR INSTALLATION.
- DEFLECTION TEST: AFTER FINAL BACKFILL, IN PLACE FOR AT LEAST 30 DAYS, THE CONTRACTOR SHALL CONDUCT A DEFLECTION TEST UTILIZING A RIGID BALL OR MANDREL IN NOT LESS THAN 95% OF THE MAINS HAVING INNER DIAMETERS OR AVERAGE INNER DIAMETERS AS SPECIFIED IN THE AS- BUILT SPECIFICATIONS AND APPENDICES. NO MECHANICAL PULLING DEVICES SHALL BE USED FOR TESTING. ALL PIPS SHALL NOT EXCEED A 1% DEFLECTION.
- VACUUM TESTING: ALL WASTEWATER MANHOLES SHALL BE VACUUM TESTED PER ASTM C1244 FOR CONCRETE MANHOLES.
- LEAKAGE TESTS: THE CONTRACTOR SHALL PERFORM LOW-PRESSURE AIR TESTS ON ALL GRAVITY MAINS AND LATERALS IN ACCORDANCE PROCEDURES DESCRIBED WITH ASTM F4437 FOR PLASTIC PIPE. MAINS SHALL BE TESTED BETWEEN MANHOLES WITH TESTING SECTIONS NOT TO EXCEED 400 FEET IN LENGTH.

G. SANITARY FORCE MAIN TESTING, AT A MINIMUM, SHALL INCLUDE:

- PRESSURE AND LEAKAGE TEST: THE CONTRACTOR SHALL PERFORM A HYDROSTATIC PRESSURE AND LEAKAGE TEST OF THE FORCE MAIN SYSTEM IN ACCORDANCE WITH AWWA STANDARDS C900, C905, OR M23 AS APPLICABLE TO PIPE MATERIAL, FOP, LOCAL AND/OR UTILITY PROVIDER REGULATIONS. FORCE MAINS SHALL BE TESTED AT 250 PSI FOR A MINIMUM OF 2 HOURS, AND MEET AWWA STANDARDS FOR THEIR RESPECTIVE MATERIAL.

#### SIGNAGE AND PAVEMENT MARKINGS:

1. ALL SIGNAGE AND PAVEMENT MARKING MATERIALS AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING STANDARD PLANS FOR ROAD AND HIGHWAY CONSTRUCTION, THE FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", AND LOCAL CODES.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED AND APPROVED ON THE PLANS. ALL THERMOPLASTIC AND PAINT MATERIALS SHALL BE CERTIFIED FREE OF LEAD.
3. ALL HANDCAP PARKING SPACES SHALL BE DESIGNATED WITH PAVEMENT MARKINGS AND SIGNAGE IN ACCORDANCE WITH ADA REQUIREMENTS.
4. ALL REGULATORY TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO FINAL INSPECTION OF ROADWAY IMPROVEMENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY EXISTING PAVEMENT MARKINGS IN CONTACT WITH THE PROPOSED PAVEMENT MARKINGS SPECIFIED ON THE CONSTRUCTION PLANS.
6. FIRE HYDRANTS SHALL BE LOCATED WITH BLUE REFLECTIVE PAVEMENT MARKERS, PLACED OPPOSITE FIRE HYDRANTS IN THE CENTER OF THE NEAREST TRAVEL LANE.

#### AS-BUILTS & CERTIFICATION:

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REQUEST THE MINIMUM AS-BUILT REQUIREMENTS OF THE APPLICABLE PERMITTING AGENCIES AND/OR UTILITY PROVIDER AND BECOME FAMILIAR WITH THESE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILTS OF INSTALLED IMPROVEMENTS SATISFYING THE MINIMUM SUBMITTAL REQUIREMENTS OF THE APPLICABLE PERMITTING AGENCIES AND/OR UTILITY PROVIDER.
2. AS-BUILT DRAWINGS SHALL BE PREPARED AND CERTIFIED AS CORRECT BY A FLORIDA LICENSED LAND SURVEYOR AND PROVIDED TO THE ENGINEER FOR REVIEW.
3. IN ADDITION TO THE MINIMUM AS-BUILT REQUIREMENTS OF THE APPLICABLE PERMITTING AGENCIES AND/OR UTILITY PROVIDER, AS-BUILT DRAWINGS SHALL CONTAIN THE FOLLOWING INFORMATION:

##### A. SANITARY SEWER SYSTEM

- HORIZONTAL LOCATION TOP ELEVATIONS OF EACH MANHOLE/STRUCTURE FRAME AND COVER
- PIPE SIZE AND MATERIAL (IF ALTERNATE MATERIAL WAS APPROVED)
- INVERTS OF ALL PIPES ENTERING AND/OR LEAVING EACH MANHOLE/STRUCTURE
- LENGTHS OF EACH RUN OF MAIN BETWEEN MANHOLES/STRUCTURES, MEASURED CENTER TO CENTER
- INVERTS OF PIPE CONNECTIONS TO EXISTING MANHOLES/STRUCTURES
- AS-BUILT SLOPE OF PIPE BETWEEN MANHOLES/STRUCTURES
- LENGTH OF ALL SERVICE WYES, LOCATION AND DEPTH AT LOT LINE OR INVERT AT CLEAN-OUT LOCATION
- LOCATION & ELEVATION OF ALL FITTINGS AND ACCESSORIES NOT VISIBLE TO THE SURFACE.

##### B. STORM SEWER SYSTEM

- HORIZONTAL LOCATION & TOP ELEVATIONS OF EACH MANHOLE/STRUCTURE FRAME, COVER OR GRATE
- OUTFALL AND CONTROL STRUCTURE COMPONENTS INCLUDING BUT NOT LIMITED TO WYER ELEVATIONS, DRAININGS, ORIFICE PIPE SIZE AND INVERTS, AND SUMMITER DRAININGS
- PIPE SIZE AND MATERIAL (IF ALTERNATE MATERIAL FROM THE PLANS WAS APPROVED)
- INVERTS OF ALL PIPES ENTERING AND/OR LEAVING EACH MANHOLE/STRUCTURE, INCLUDING UNDERDRAINS
- INVERTS OF MITERED END SECTIONS, DOWDRAWS, OR INVERT OF PIPE CONNECTIONS TO EXISTING SYSTEMS
- AS-BUILT GRADE OF PIPE BETWEEN MANHOLES/STRUCTURES
- LOCATION AND INVERT ELEVATION OF ALL STORM STUB-OUTS
- UNDERDRAIN LOCATIONS

##### C. PRESSURE SYSTEMS (WATER, RECLAIM, FORCE MAIN)

- LOCATION AND TOP ELEVATION OF ALL MAINS, SERVICE LINES AND FIRE APPARATUS
- LOCATION AND TOP ELEVATION OF ALL VALVES AND FITTINGS
- PIPE SIZE AND MATERIAL (IF ALTERNATE MATERIAL FROM THE PLANS WAS APPROVED)
- ALL UTILITY CROSSINGS WITH CLEARANCES MEASURED FROM OUTSIDE OF PIPE, AS-BUILTS SHALL CLEARLY DEMONSTRATE COMPLIANCE WITH MINIMUM SEPARATION DISTANCES.

##### D. GRADING & STORMWATER FACILITIES

- POND ELEVATIONS INCLUDING TOP OF BANK, GRADE BREAKS, AND POND BOTTOM
- SWALE / DITCH TOP AND BOTTOM ELEVATIONS
- ELEVATIONS FOR ALL SPOT GRADES SHOWN IN PROPOSED PAVEMENT AREAS
- ELEVATIONS ON RESIDENTIAL LOT CORNERS, GRADE BREAKS ON LOT LINES, AND CENTER OF BUILDING PAD
- TOP AND BOTTOM OF RETAINING WALL ELEVATIONS
- ALONG ALL PROPOSED ROADWAYS, SPOT GRADES AT EVERY MAJOR STATION AND PM SHALL BE PROVIDED AT CROWN, EDGE OF PAVEMENT, TOP OF CURB, AND BACK OF SIDEWALK OR RIGHT OF WAY LINE.

4. AS-BUILTS FOR ALL UNDERGROUND STORMWATER DRAINAGE AND UTILITY IMPROVEMENTS MUST BE SUBMITTED TO THE ENGINEER AND ACCEPTED PRIOR TO CONSTRUCTION OF PAVING IMPROVEMENTS.
5. NO ENGINEER'S CERTIFICATION OF COMPLETION WILL BE ISSUED UNTIL COMPLETE AS-BUILT DRAWINGS HAVE BEEN PROVIDED AND ACCEPTED. PARTIAL AS-BUILTS MAY BE PROVIDED FOR SPECIFIC PURPOSES SUCH AS FLOOD CLEARANCES.
6. THE ENGINEER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER, RETEST OR PERFORM ANY NECESSARY ACTION TO CONFIRM THAT ALL IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

#### REVISIONS:

CLOUDED REVISIONS ARE INTENDED TO AID THE CONTRACTOR, BUT DO NOT RELIEVE THE CONTRACTOR FROM IDENTIFYING ANY ADDITIONAL CHANGES AS A RESULT OF THE CLOUDED REVISIONS. THE CONTRACTOR SHALL REVIEW THE REVISION CHANGES IN RELATION TO THE CONSTRUCTION PLANS IN THEIR ENTIRETY BEFORE PROCEEDING.

#### MATERIAL SPECIFICATIONS:

##### 1. GENERAL:

- A. THE CONTRACTOR SHALL REVIEW THESE MATERIAL SPECIFICATIONS AGAINST THOSE OF THE AUTHORITY HAVING JURISDICTION (AHJ), WHEREVER THE BELOW STANDARDS DIFFER FROM THE REQUIREMENTS OF THE AHJ. THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION. TYPICALLY THE AHJ REQUIREMENTS SHALL APPLY.
- B. MATERIAL FURNISHED UNDER THESE REQUIREMENTS SHALL BE IN NEW CONDITION, FREE OF DEFECTS, AND HIGH GRADE.

##### 2. PAVING AND DRAINAGE:

- A. ALL STORM PIPES SHALL BE REINFORCED CONCRETE PIPE PER ASTM C31 CLASS B LIFTING BELL SHALL NOT BE USED. WHERE LOCAL MANHOLELITS ALLOW, HIGH DENSITY POLYPROPYLENE (HDPE) PIPE SHALL BE USED. THE PIPE SHALL BE BELL AND GASKET JOINT. JOINTS SHALL BE GASKETED WITH A SMOOTH INTERIOR AND ANNULAR EXTERIOR CONFIGURATION AND SHALL MEET ASTM F2881 OR F2882 REQUIREMENTS. GASKETS SHALL BE BELLS AND GASKETS PER ASTM F2881 AND F2882. GASKETS SHALL BE COVERED WITH A REMOVABLE PLASTIC WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LONGER THAN 12" SHALL BE USED ON THE GASKET AND BELL DURING ASSEMBLY. EXTERIOR BELL WRAPS SHALL BE INSTALLED BY THE MANUFACTURER. ALL STORM PIPES SHALL BE INSTALLED, LASER PROFILED AND VIDEO'D IN ACCORDANCE WITH FOUR STANDARD SPECIFICATIONS.
- B. STORM CLEANOUTS LOCATED IN PAVED AREAS SHALL BE TRAFFIC BEARING, STORM STRUCTURES AND MANHOLES SHALL HAVE TRAFFIC BEARING GRATES OR LIDS. ALL GRATES AND LIDS SHALL BE SET FLUSH WITHOUT MOVEMENT WHEN SUBJECTED TO VEHICLE TRAFFIC.
- C. ALL YARD DRAINS SHALL BE 105 POLYALUMINUM DRAINS AND DRAIN BASINS WITH WATER TIGHT ADAPTER CONNECTIONS, OR ENGINEER APPROVED EQUAL. CATCH BASIN RISER (NPS 24") SHALL BE USED IN SHRUB AREAS. 12" SQUARE FLAT GRATES (NPS 24") SHALL BE USED IN TURF AREAS. REFER TO LANDSCAPE PLANS FOR GRATE TYPE, SURFACE FOR THE LOCATION.
- D. YARD DRAIN PIPING UNDER PAVEMENT AREAS SHALL BE ASTM D3034 SDR 35 PVC OR ENGINEER APPROVED EQUAL. YARD DRAIN PIPING OUTSIDE OF PAVEMENT AREAS SHALL BE ASTM D3034 SDR 35 PVC OR ENGINEER APPROVED EQUAL. POLYETHYLENE PIPE, SELECTED MATERIALS SHALL BE CONSISTENT THROUGHOUT THE PROJECT.

- E. ALL TYPE "P" STRUCTURE BOTTOMS SHALL BE ROUND UNLESS OTHERWISE NOTED AND SHALL HAVE A 4 FOOT DIAMETER.
- F. ALL UNDERDRAIN SHALL BE ADVANCED DRAINAGE SYSTEMS (ADS), HEAVY-DUTY CORRUGATED POLYETHYLENE PIPE WITH FACTORY INSTALLED FILTER FABRIC, OR APPROVED EQUAL.
- G. ALL UNDERDRAIN DISCHARGE PIPE SHALL BE NON-PERFORATED ASTM D3034 SDR 35 PVC WITH ELASTOMERIC JOINTS.

- H. AGGREGATE USED FOR ANY EXFILTRATION TRENCH SHALL BE NON-LEASTONITE BASED NATURALLY OCCURRING MATERIAL, CRUSHED OR RECYCLED CONCRETE IS NOT PERMITTED FOR USE IN THE EXFILTRATION TRENCH.

- I. STORM CLEANOUTS LOCATED IN PAVED AREAS SHALL BE TRAFFIC BEARING, STORM STRUCTURES AND MANHOLES SHALL HAVE TRAFFIC BEARING GRATES OR LIDS. ALL GRATES AND LIDS SHALL BE SET FLUSH WITHOUT MOVEMENT WHEN SUBJECTED TO VEHICLE TRAFFIC.
- J. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE MINIMUM CLASS III UNLESS OTHERWISE NOTED ON THE CONSTRUCTION PLANS.

##### 3. POTABLE WATER:

- A. WATER MAINS, FITTINGS, VALVES, AND APPURTENANCES SHALL MEET ALL APPLICABLE UTILITY PROVIDER CRITERIA. IF UTILITY PROVIDER CRITERIA DOES NOT APPLY, MINIMUM MATERIAL SPECIFICATIONS SHALL BE AS FOLLOWS:
- B. WATER MAINS 6.6" TO 3" AND FITTINGS LESS THAN 4" SHALL BE PVC MEETING ASTM D2241 AND ASTM D1784 CLASS 200, SDR 21, AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D1319 AND GASKETS PER ASTM F477.
- C. WATER MAINS 4" TO 12" SHALL BE PVC UNLESS OTHERWISE CALLED FOR MEETING THE REQUIREMENTS OF AWWA C900 CLASS 150 DR18 AND ASTM D1784 AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D1319 AND GASKETS PER ASTM F477.
- D. WATER MAINS SHALL BE DUCTILE IRON WHEN CALLED FOR, WITH MIN. WORKING PRESSURE CLASS 350 PER AWWA C150, WITH INTERIOR LINING OF CEMENT MORTAR AND ASPHALTIC MATERIAL SEAL COAT IN ACCORDANCE WITH ANSI/AWWA C150/A21.4, AND EXTERIOR COATING PER ANSI/AWWA C151/A21.51 OF 1.0 MIL MIN THICKNESS.
- E. FITTINGS 4" AND OVER SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C150/A21.51, 250 PSI, WITH CEMENT MORTAR LINING CONFORMING TO ANSI/AWWA C150/A21.4, STANDARD THICKNESS, WITH COMPRESSOR TYPE JOINTS, MECHANICAL JOINTS AS RESPECTIVELY SPECIFIED IN ASTM D1319 AND ANSI/AWWA C151/A21.1.
- F. VALVES 2" AND SMALLER SHALL BE BRONZE, WEDGE DISC, NON-RISE STEM TYPE, 150 PSI MIN WORKING PRESSURE, WITH WROUGHT STEEL OR CAST IRON HANDWHEELS AND WITH SUITABLE ENDS FOR JOINING TO THE SELECTED PIPE.
- G. VALVES 3" TO 12" SHALL BE RESILIENT SEAT GATE VALVES AT 250 PSI RATING, CONFORMING TO ANSI/AWWA C509 OR C151 OPENING COUNTERCLOCKWISE, WITH O-RING STEM SEAL AND OPENING EQUAL TO OR GREATER THAN THE NOMINAL DIAMETER OF THE VALVE.
- H. VALVE BOXES SHALL BE ADJUSTABLE, CAST IRON, WITH MINIMUM INTERIOR DIAMETER OF 5 INCHES WITH COVERS LEGIBLY CAST WITH THE INSCRIPTION "RELEASED WATER" ON THE TOP, AND WITH A HEAVY COATING OF BITUMINOUS PAINT. BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE. ALL VALVES SHALL HAVE BOXES.
- I. FIRE HYDRANTS SHALL CONFORM TO AWWA C502, PAINTED IN ACCORDANCE WITH AHJ REQUIREMENTS.
- J. BACKFLOW PREVENTION DEVICES SHALL BE REDUCED PRESSURE ZONE TYPE UNLESS OTHERWISE SPECIFIED.
- K. DOUBLE DETECTOR CHECK VALVE ASSEMBLY (DDCA) AND DOUBLE CHECK VALVE ASSEMBLY (DCA) SHALL CONFORM TO ASSE STANDARD 1015 AND AWWA C514. WATTS 700 SERIES OR ENGINEER APPROVED EQUAL. DEVICES TO INCLUDE OSEAT GATE VALVES AT BOTH ENDS AND EPOXY COATED STRAINERS. ALL CAST DUCTILE IRON PARTS TO BE EPOXY COATED. DDCA TO INCLUDE METER BYPASS WITH DOUBLE CHECK VALVE (ALSO CONFORMING TO THIS SPECIFICATION).
- L. REDUCED PRESSURE BACKFLOW PREVENTION DEVICES SHALL CONFORM TO ASSE STANDARD 1015 AND AWWA C514. HERSH MODEL 1 CM OR ENGINEER APPROVED EQUAL. DEVICES TO INCLUDE OSEAT GATE VALVES AT BOTH ENDS AND EPOXY COATED STRAINER. ALL CAST DUCTILE IRON PARTS TO BE EPOXY COATED.
- M. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

OTHER APPLICABLE STANDARDS, REGULATIONS OR REQUIREMENTS REFERENCED IN PARAGRAPH 62-555-320.010, F.A.C.

- N. ALL PIPE, FITTINGS, SOLDER OR FLUX USED IN CONSTRUCTION SHALL CONTAIN NO LEAD.

- O. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THE PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555-320.010.01, F.A.C. USING BLUE AS A PREDOMINANT COLOR. UNDERGROUND PLASTIC PIPE SHALL BE SDAHALL BLUE. PIPE WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL. PLASTIC OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPES DURING MANUFACTURING OF THE PIPE WILL HAVE A MINIMUM OF 10% OF THE PIPE WALL AREA. STRIPES SHALL BE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING INSTALLATION OF THE PIPE, OR THE TAPE OR PART WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE PIPE WALL AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PART WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE PIPE WALL AND THAT IS LOCATED ALONG THE TOP OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LINE UNDERGROUND (PVC).

##### 4. RECLAIMED WATER:

- A. RECLAIMED WATER MAINS, FITTINGS, VALVES, AND APPURTENANCES SHALL MEET ALL APPLICABLE UTILITY PROVIDER CRITERIA. IF UTILITY PROVIDER CRITERIA DOES NOT APPLY, MINIMUM MATERIAL SPECIFICATIONS SHALL BE AS FOLLOWS:
- B. RECLAIMED WATER MAINS 6.6" TO 3" AND FITTINGS LESS THAN 4" SHALL BE PVC MEETING ASTM D2241 AND ASTM D1784 CLASS 200, SDR 21, AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D1319 AND GASKETS PER ASTM F477.
- C. RECLAIMED WATER MAINS 4" TO 12" SHALL BE PVC UNLESS OTHERWISE CALLED FOR MEETING THE REQUIREMENTS OF AWWA C900 CLASS 150 DR18 AND ASTM D1784 AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D1319 AND GASKETS PER ASTM F477.
- D. RECLAIMED WATER MAINS SHALL BE DUCTILE IRON WHEN CALLED FOR, WITH MIN. WORKING PRESSURE CLASS 350 PER AWWA C150, WITH INTERIOR LINING OF CEMENT MORTAR AND ASPHALTIC MATERIAL SEAL COAT IN ACCORDANCE WITH ANSI/AWWA C150/A21.4, AND EXTERIOR COATING PER ANSI/AWWA C151/A21.51 OF 1.0 MIL MIN THICKNESS.

- E. FITTINGS 4" AND OVER SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C150/A21.51, 250 PSI, WITH CEMENT MORTAR LINING CONFORMING TO ANSI/AWWA C150/A21.4, STANDARD THICKNESS, WITH COMPRESSOR TYPE JOINTS, MECHANICAL JOINTS AS RESPECTIVELY SPECIFIED IN ASTM D1319 AND ANSI/AWWA C151/A21.1.
- F. VALVES 2" AND SMALLER SHALL BE BRONZE, WEDGE DISC, NON-RISE STEM TYPE, 150 PSI MIN WORKING PRESSURE, WITH WROUGHT STEEL OR CAST IRON HANDWHEELS AND WITH SUITABLE ENDS FOR JOINING TO THE SELECTED PIPE.
- G. VALVES 3" TO 12" SHALL BE RESILIENT SEAT GATE VALVES AT 250 PSI RATING, CONFORMING TO ANSI/AWWA C509 OR C151 OPENING COUNTERCLOCKWISE, WITH O-RING STEM SEAL AND OPENING EQUAL TO OR GREATER THAN THE NOMINAL DIAMETER OF THE VALVE.
- H. VALVE BOXES SHALL BE ADJUSTABLE, CAST IRON, WITH MINIMUM INTERIOR DIAMETER OF 5 INCHES WITH COVERS LEGIBLY CAST WITH THE INSCRIPTION "RELEASED WATER" ON THE TOP, AND WITH A HEAVY COATING OF BITUMINOUS PAINT. BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE. ALL VALVES SHALL HAVE BOXES.
- I. ALL PIPING VALVES AND OUTLETS SHALL BE COLOR CODED PANTONE 523C PURPLE AND MARKED PER LOCAL AND STATE CODES TO DIFFERENTIATE RECLAIMED WATER FROM POTABLE WATER OR OTHER WATER SOURCES.

- J. ALL PIPING VALVES AND OUTLETS SHALL BE COLOR CODED PANTONE 523C PURPLE AND MARKED PER LOCAL AND STATE CODES TO DIFFERENTIATE RECLAIMED WATER FROM POTABLE WATER OR OTHER WATER SOURCES.

##### 5. WASTEWATER COLLECTION & TRANSMISSION:

- A. GRAVITY SEWER LINES AND FITTINGS TO BE PVC SDR 35 PER ASTM D3034 WITH ELASTOMERIC JOINTS PER ASTM D1319.
- B. MANHOLES TO MEET ASTM C478 WITH A 5" MINIMUM CONCRETE WALL WITH 4,000 PSI COMPRESSIVE STRENGTH.
- C. FORCE MAINS 4" TO 12" SHALL BE PVC DR 18 CLASS 150 PER AWWA C900 WITH ELASTOMERIC JOINTS PER ASTM D1319.
- D. FORCE MAIN FITTINGS AND PIPE 4.5" TO 12" SHALL BE FITTINGS LESS THAN 4" SHALL BE PVC MEETING ASTM D2241 AND ASTM D1784 CLASS 200, SDR 21, AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D1319 AND GASKETS PER ASTM F477.
- E. FORCE MAIN FITTINGS 4" AND OVER SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C150/A21.51, 250 PSI, WITH CEMENT MORTAR LINING CONFORMING TO ANSI/AWWA C150/A21.4, STANDARD THICKNESS, WITH COMPRESSOR TYPE JOINTS, MECHANICAL JOINTS AS RESPECTIVELY SPECIFIED IN ASTM D1319 AND ANSI/AWWA C151/A21.1.

##### 6. WASTEWATER COLLECTION & TRANSMISSION:

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- B. MANHOLES TO MEET ASTM C478 WITH A 5" MINIMUM CONCRETE WALL WITH 4,000 PSI COMPRESSIVE STRENGTH.
- C. FORCE MAINS 4" TO 12" SHALL BE PVC DR 18 CLASS 150 PER AWWA C900 WITH ELASTOMERIC JOINTS PER ASTM D1319.
- D. FORCE MAIN FITTINGS AND PIPE 4.5" TO 12" SHALL BE FITTINGS LESS THAN 4" SHALL BE PVC MEETING ASTM D2241 AND ASTM D1784 CLASS 200, SDR 21, AND INCLUDE INTEGRAL BELLS AND ELASTOMERIC JOINTS PER ASTM D1319 AND GASKETS PER ASTM F477.
- E. FORCE MAIN FITTINGS 4" AND OVER SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C150/A21.51, 250 PSI, WITH CEMENT MORTAR LINING CONFORMING TO ANSI/AWWA C150/A21.4, STANDARD THICKNESS, WITH COMPRESSOR TYPE JOINTS, MECHANICAL JOINTS AS RESPECTIVELY SPECIFIED IN ASTM D1319 AND ANSI/AWWA C151/A21.1.

- F. VALVES 2" AND SMALLER SHALL BE BRONZE, WEDGE DISC, NON-RISE STEM TYPE, 150 PSI MIN WORKING PRESSURE, WITH WROUGHT STEEL OR CAST IRON HANDWHEELS AND WITH SUITABLE ENDS FOR JOINING TO THE SELECTED PIPE.
- G. VALVES 3" TO 12" SHALL BE RESILIENT SEAT GATE VALVES AT 250 PSI RATING, CONFORMING TO ANSI/AWWA C509 OR C151 OPENING COUNTERCLOCKWISE, WITH O-RING STEM SEAL AND OPENING EQUAL TO OR GREATER THAN THE NOMINAL DIAMETER OF THE VALVE.
- H. VALVE BOXES SHALL BE ADJUSTABLE, CAST IRON, WITH MINIMUM INTERIOR DIAMETER OF 5 INCHES WITH COVERS LEGIBLY CAST WITH THE INSCRIPTION "RELEASED WATER" ON THE TOP, AND WITH A HEAVY COATING OF BITUMINOUS PAINT. BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE. ALL VALVES SHALL HAVE BOXES.
- I. FIRE HYDRANTS SHALL CONFORM TO AWWA C502, PAINTED IN ACCORDANCE WITH AHJ REQUIREMENTS.

- J. BACKFLOW PREVENTION DEVICES SHALL BE REDUCED PRESSURE ZONE TYPE UNLESS OTHERWISE SPECIFIED.

- K. DOUBLE DETECTOR CHECK VALVE ASSEMBLY (DDCA) AND DOUBLE CHECK VALVE ASSEMBLY (DCA) SHALL CONFORM TO ASSE STANDARD 1015 AND AWWA C514. WATTS 700 SERIES OR ENGINEER APPROVED EQUAL. DEVICES TO INCLUDE OSEAT GATE VALVES AT BOTH ENDS AND EPOXY COATED STRAINERS. ALL CAST DUCTILE IRON PARTS TO BE EPOXY COATED. DDCA TO INCLUDE METER BYPASS WITH DOUBLE CHECK VALVE (ALSO CONFORMING TO THIS SPECIFICATION).

- L. REDUCED PRESSURE BACKFLOW PREVENTION DEVICES SHALL CONFORM TO ASSE STANDARD 1015 AND AWWA C514. HERSH MODEL 1 CM OR ENGINEER APPROVED EQUAL. DEVICES TO INCLUDE OSEAT GATE VALVES AT BOTH ENDS AND EPOXY COATED STRAINER. ALL CAST DUCTILE IRON PARTS TO BE EPOXY COATED.

- M. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- N. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- O. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- P. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- Q. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- R. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- S. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- T. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- U. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- V. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

- W. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

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- Z. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

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- AD. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR

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- BC. ALL WATER SYSTEM COMPONENTS INSTALLED THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN 924-655-325, F.A.C. OR



PREPARED BY:  
**MCNULTY GROUP**



# BOUNDARY AND TOPOGRAPHIC SURVEY

SECTION 9, TOWNSHIP 21 SOUTH, RANGE 28 EAST  
CITY OF APOPKA, ORANGE COUNTY, FLORIDA



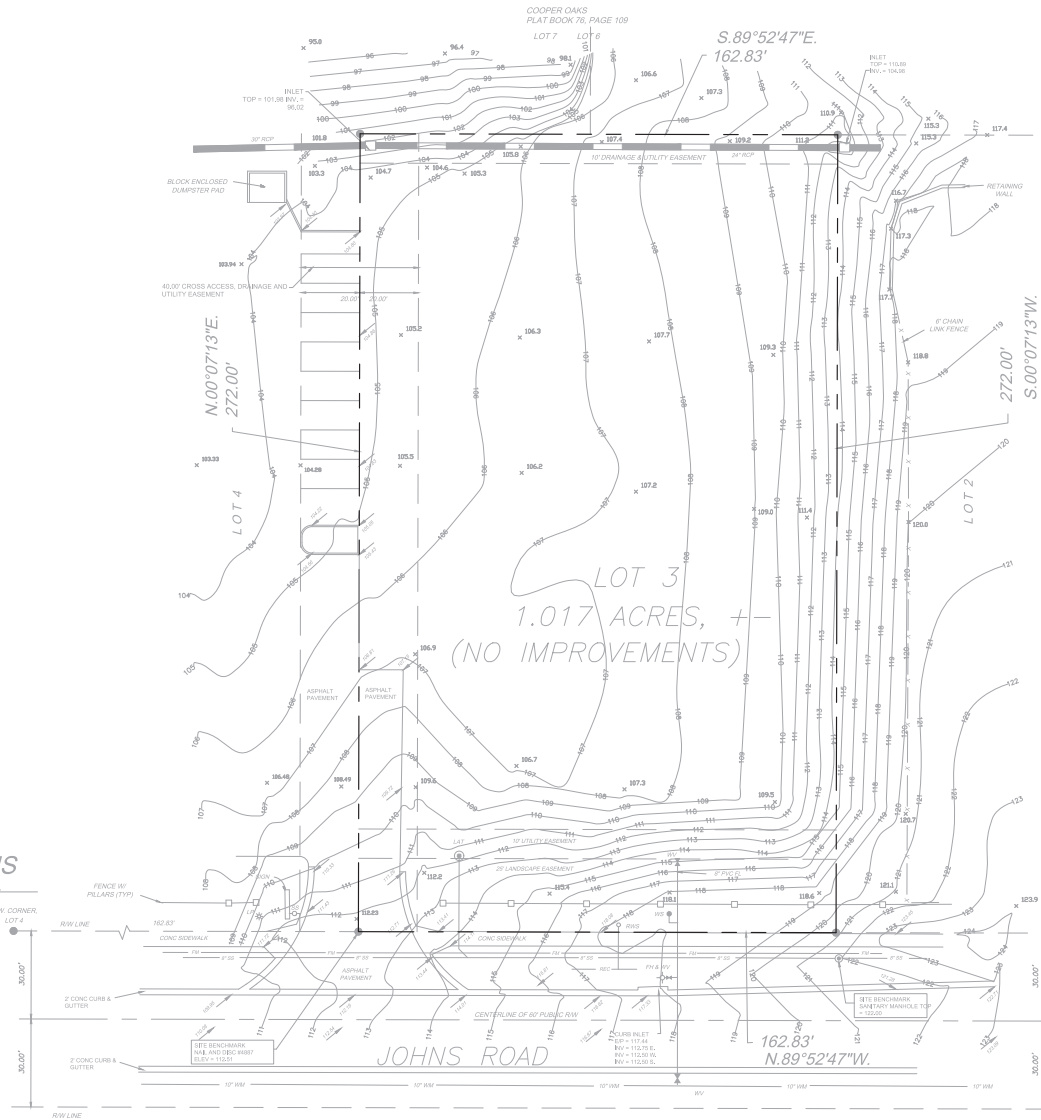
LOCATION MAP  
(NOT TO SCALE)



SCALE 1" = 20'

## LEGEND / ABBREVIATIONS

CONC = CONCRETE  
R/W = RIGHT-OF-WAY  
LP = LIGHT POLE  
SS = STOP SIGN  
TRA = TRANSFORMER  
INL = DRAINAGE INLET  
WS = 1" POLY WATER LINE  
OW = OVERHEAD WIRES  
F.F.E. = FINISHED FLOOR ELEVATION  
B.F.P. = BACK FLOW PREVENTER  
P.O.B. = POINT OF BEGINNING  
● = SET 5/8" IRON ROD #487 UNLESS NOTED OTHERWISE  
WM = WATER METER  
RMW = RECLAIM WATER METER  
BV = 6" GATE VALVE  
CO = SANITARY CLEANOUT  
SNV = 4" PVC SANITARY SERVICE  
ROP = REINFORCED CONC PIPE



## SURVEYOR'S NOTES:

- Bearings based on the S. line of the S.W. 1/4 of Section 9-21-28 as being S.89°52'47"E. (assumed).
- Underground improvements not located, except as shown.
- Subject to easements and restrictions of record, no title provided.
- Subject property lies in Zone "X" per Flood Insurance Rate Map Panel number 13086C012M, dated 8/4/2021, and lies outside the 500-year flood plain.
- Date of field survey: 8/24/23.
- Elevations shown herein based on Orange County Benchmark 85-1361-002, relative to the National Geodetic Vertical Datum of 1929 (NGVD 29) is being used in order to match the Subdivision Engineering Plans of record. The conversion to NAVD 83 is -0.91 feet.

## LEGAL DESCRIPTION

LOT 3, JOHNS ROAD COMMERCE PARK, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 73, PAGE 38, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

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PREPARED FOR:

MCNULTY GROUP

EXISTING CONDITIONS  
529 JOHNS ROAD

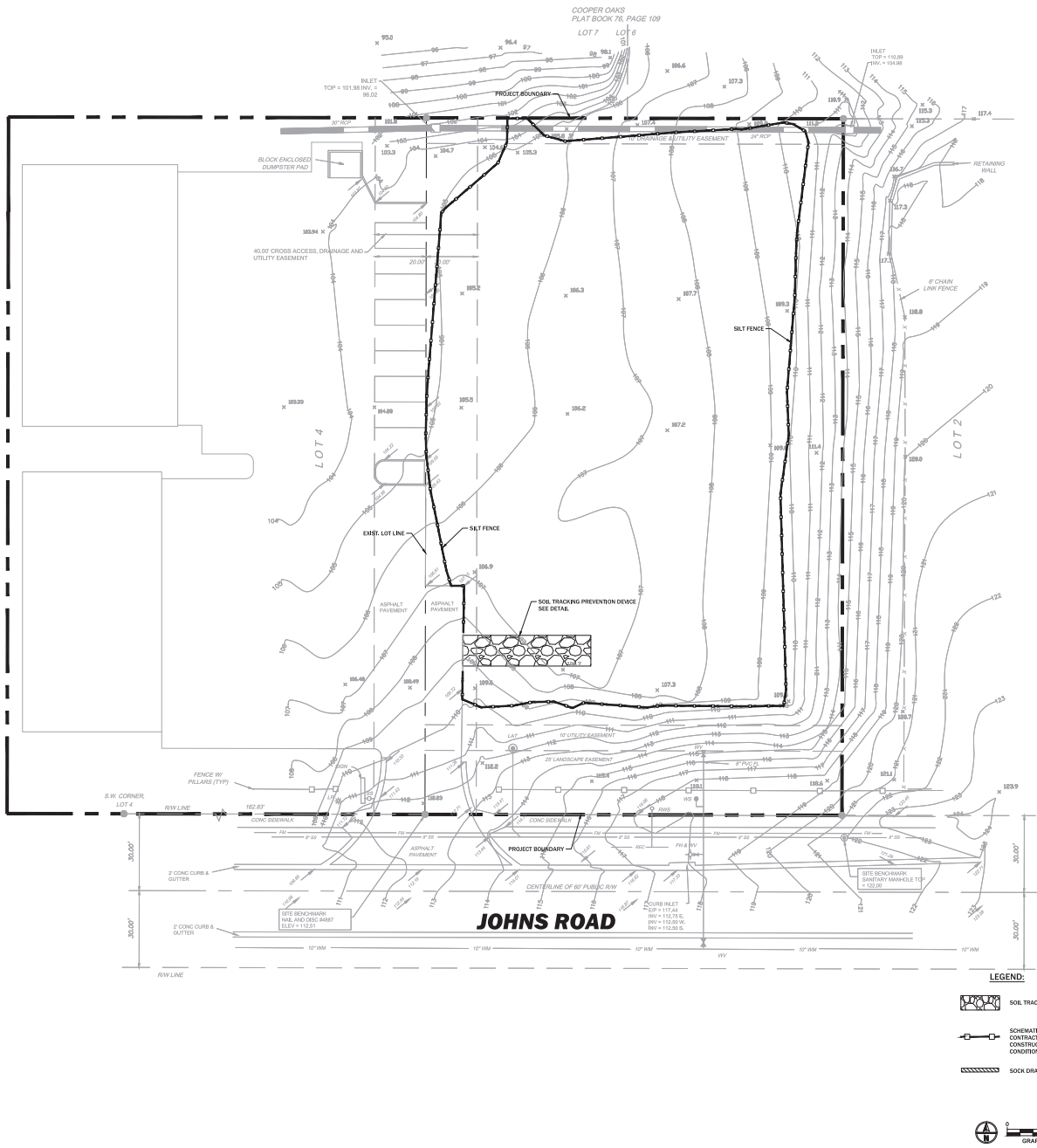
ISSUE DATE: 02/02/2024 - FOR REVIEW

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CHECKED: SPS  
PROJECT NUMBER: 23044

SHEET:  
C3.0



SEDIMENTATION AND EROSION CONTROL NOTES:

1. THIS SEDIMENTATION AND EROSION CONTROL PLAN AND ASSOCIATED DETAILS ARE PROVIDED AS A GUIDE TO THE CONTRACTOR. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WHICH DEMONSTRATES THE MEANS AND METHODS THAT WILL BE UTILIZED TO PROTECT THE CONSTRUCTION SITE AND SURROUNDING AREAS AND WETLANDS DURING CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. THE PLAN SHALL INCLUDE AT A MINIMUM, THE LOCATION OF SOIL TRACKING PREVENTION DEVICES, SILT SCREENS AND FENCING, TURBIDITY BARRIERS, TEMPORARY SHEETING, EMERGENCY RESPONSE PRACTICES, AND ALL OTHER NECESSARY MEANS AND METHODS TO PREVENT POLLUTION.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL LAWS, AND ALL REGULATIONS PERTAINING TO POLLUTION OF THE ENVIRONMENT.
3. FOR CONSTRUCTION ACTIVITIES THAT DISTURB 1 ACRE OR MORE OF LAND, OR DISTURB LESS THAN ONE ACRE OF LAND BUT ARE PART OF A COMMON PLAN OF DEVELOPMENT OR SALE, THE CONTRACTOR SHALL SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) A "NOTICE OF INTENT TO USE THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES" WITHIN A MINIMUM OF 2 CALENDAR DAYS BEFORE COMMENCEMENT OF CONSTRUCTION BY CLEARING, GRADING, EXCAVATING, DEMOLITION, OR OTHER CONSTRUCTION ACTIVITIES DISTURBING SOIL.
4. PRIOR TO SUBMITTING THE NOI, THE CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH EPA/FDEP NPDES AS WELL AS THE LOCAL AUTHORITY HAVING JURISDICTION'S MINIMUM EROSION CONTROL REQUIREMENTS.
5. ALL CONTRACTORS AND SUBCONTRACTORS INCLUDED ON THE STORMWATER POLLUTION PREVENTION PLAN SHALL OBTAIN A COPY OF THE SWPPP AND THE NPDES PERMIT AND ABIDE BY THE REQUIREMENTS THEREIN.
6. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMPs) AS REQUIRED BY THE SWPPP TO LIMIT SEDIMENTATION OUTSIDE OF THE PROJECT LIMITS. SITE CONDITIONS MAY NECESSITATE THE IMPLEMENTATION OF ADDITIONAL BMPs WHICH SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
7. ALL BMPs SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, LOCAL REQUIREMENTS, MANUAL OF PRACTICE, AND/OR AS DIRECTED BY THE AGENCY HAVING JURISDICTION.
8. ALL BMPs SHALL BE IN PLACE PRIOR TO CONSTRUCTION ACTIVITY AND MONITORED FOR ADEQUATE FUNCTION AND ANY NEEDED MAINTENANCE UNTIL THE PROJECT OR PHASE OF THE PROJECT IS FULLY COMPLETED AND ACCEPTED.
9. THE SITE SHALL BE INSPECTED BY A QUALIFIED INSPECTOR PROVIDED BY THE CONTRACTOR / OWNER AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN TWENTY-FOUR HOURS OF THE END OF A RAINFALL EVENT 6 INCHES OR GREATER.
10. INSPECTIONS OF THE BMPs SHALL COVER THE FOLLOWING:
  - ALL STORMWATER DISCHARGES FROM THE SITE TO ENSURE BMPs ARE NOT CAUSING OR CONTRIBUTING TO VIOLATIONS OF WATER QUALITY STANDARDS OR RESULTING IN OFFSITE SEDIMENTATION
  - THE BMPs IDENTIFIED IN THE SWPPP ARE INSTALLED, MAINTAINED, AND OPERATING CORRECTLY AND EFFECTIVELY
  - BMPs ARE BEING USED AND MAINTAINED PROPERLY FOR ALL AREAS USED FOR STORAGE OF MATERIALS EXPOSED TO RAINFALL AND RUNOFF
  - ANY EVIDENCE OF OFFSITE SEDIMENT TRACKING AT ALL LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE, NOTE ANY ACTIONS NEEDED TO REMOVE SEDIMENTS FROM THE ROADWAY AND TO PREVENT IT IN THE FUTURE.
  - ANY VISIBLE SIGNS OF EROSION AND SEDIMENTATION IN ALL DISTURBED AREAS AND DISCHARGE POINTS.
11. ANY CORRECTIVE ACTION TO THE BMPs SHALL BE FULLY DOCUMENTED. A COPY OF THE APPROVED NOI, ACKNOWLEDGEMENT LETTER, SWPPP, INSPECTION REPORTS, RECORDS AND ALL NOTIFICATIONS FROM FDEP SHALL BE KEPT ON SITE AT ALL TIMES FOR REVIEW BY THE NPDES INSPECTOR, OWNER OR OTHER AUTHORIZED PARTIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIRT AND DUST ABATEMENT AND SHALL WATER THE SITE OR USE OTHER APPROPRIATE MEASURES FOR CONTROL, NO USE OF PETROLEUM BASED OR OTHER TOXIC SUBSTANCES SHALL BE PERMITTED FOR DUST ABATEMENT.
13. THE CONTRACTOR SHALL PROVIDE SOIL TRACKING PREVENTION DEVICES AT DESIGNATED CONSTRUCTION ENTRANCES IN ACCORDANCE WITH THE FOOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
14. IF PROVIDED CONSTRUCTION ENTRANCES ARE NOT SUFFICIENT TO REMOVE DIRT AND MUD FROM THE TIRES OF VEHICLES AND EQUIPMENT LEAVING THE CONSTRUCTION SITE, THE TIRES MUST BE WASHED PRIOR TO THE VEHICLES LEAVING THE SITE AND ENTERING A PUBLIC ROAD.
15. ALL WATER USED FOR CLEANING CONCRETE TRUCKS, VEHICLES, EQUIPMENT OR OTHER CLEANING ACTIVITY SHALL BE PROPERLY DETAINED AND TREATED OR DISPOSED OF IN A LEGAL MANNER.
16. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ON TO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
17. SILT FENCING SHOWN ON THE PLANS IS SCHEMATIC AND MAY NEED TO BE ADJUSTED DUE TO SITE CONDITIONS. CONTRACTOR SHALL PLACE SILT FENCING ALONG THE LIMITS OF CONSTRUCTION BASED ON THE CONSTRUCTION PLANS IN THEIR ENTRY.
18. EXISTING CURB AND DITCH INLETS SHALL BE PROTECTED FROM SEDIMENTATION DUE TO SURFACE RUNOFF UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETE. FILTER FABRIC SHALL BE PLACED UNDER THE GRATE OF DITCH INLETS, AND FILTER SOCKS SHALL BE PLACED IN FRONT OF THE THROAT OF CURB INLETS.
19. TURBIDITY BARRIERS SHALL BE INSTALLED IN ALL EXISTING WATER BODIES WHERE CONSTRUCTION ACTIVITIES COULD CAUSE THE TRANSFER OF SEDIMENTS AND SUSPENDED SOLIDS. TURBIDITY BARRIERS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITY IS COMPLETE AND THE GROUND IS STABILIZED WITH A DENSE STAND OF VEGETATION.
20. THE CONTRACTOR SHALL REMOVE SEDIMENT IN STORMWATER PONDS AND ANY SEDIMENT THAT MAY HAVE ACCUMULATED IN THE STORMWATER DRAINAGE SYSTEM.
21. ALL RIGHT OF WAY, POND SLOPES, OR SLOPES 5:1 OR GREATER SHALL BE SOODED. ALL SOODED AREAS SHALL BE WATERED, FERTILIZED OR OTHERWISE MAINTAINED BY THE CONTRACTOR AS NECESSARY UNTIL FINAL ACCEPTANCE OF THE PROJECT.
22. IF CONSTRUCTION ACTIVITY HAS CEASED FOR ANY REASON, ALL DISTURBED AREAS SHALL BE SEEDED & MULCHED OR OTHERWISE STABILIZED NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY.



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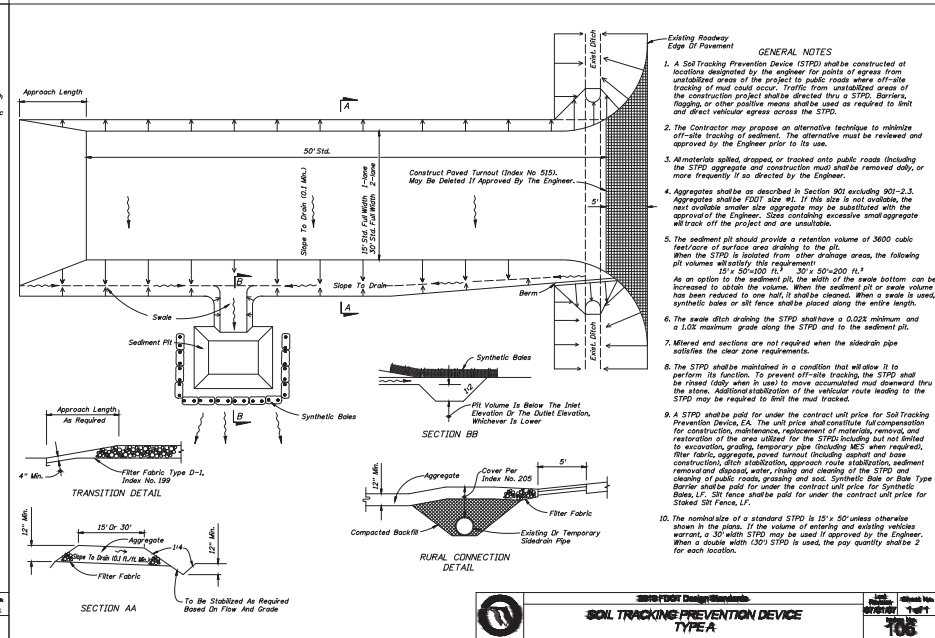
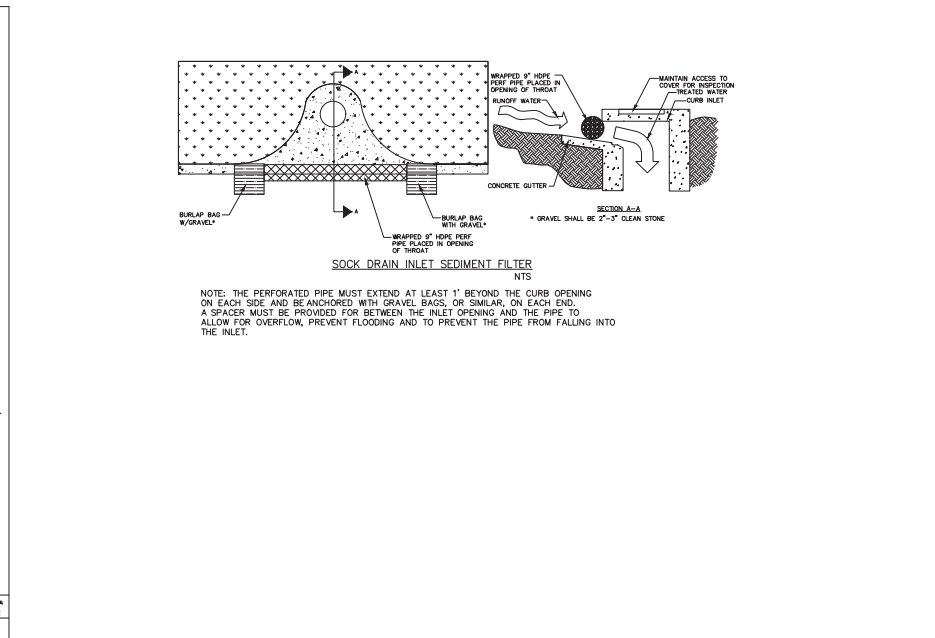
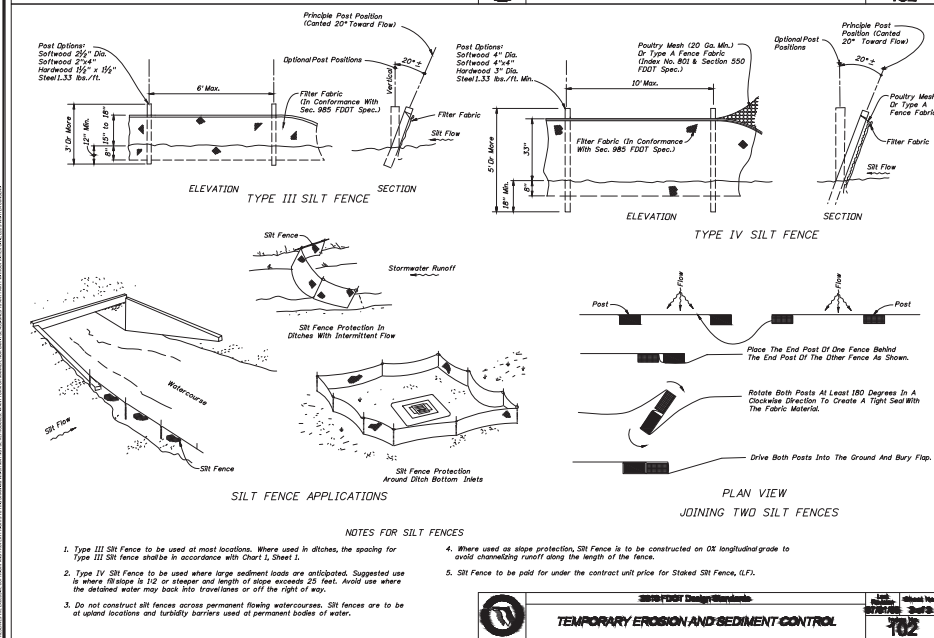
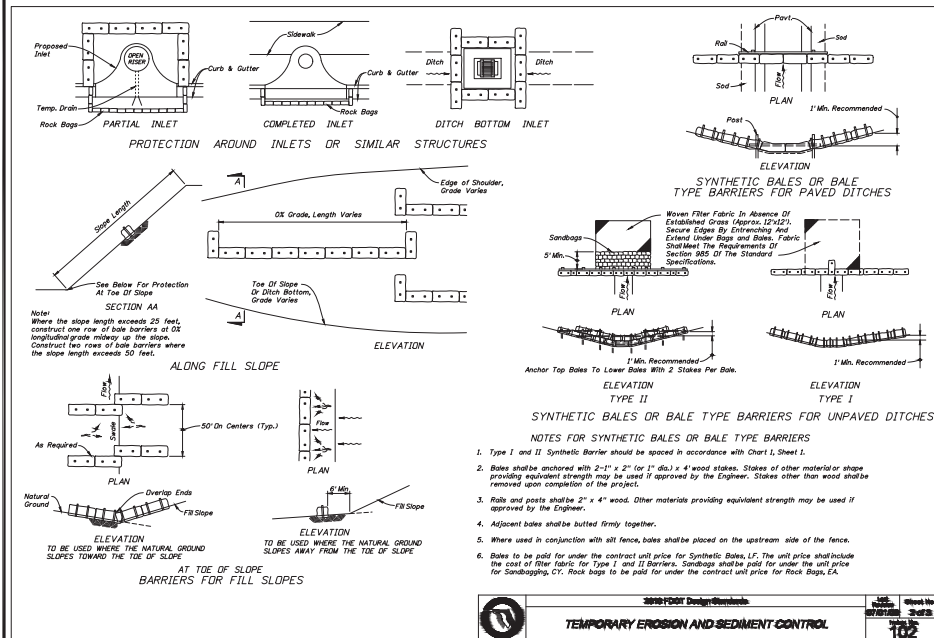
SEDIMENTATION & EROSION  
CONTROL PLAN  
529 JOHNS ROAD

ISSUE DATE: 02/02/2024 - FOR REVIEW



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CHECKED: SPS  
REVIEWED: JCS  
PROJECT NUMBER: 22044

SHEET:  
C4.0



PREPARED BY: **RITTER CIVIL ENGINEERING + PLANNING**

460 PINEY CROFT LANE, HATFIELD, IL 62701

618-286-2720 • WWW.RITTERCIVIL.COM

PREPARED FOR: **MCNUITY GROUP**

**SEDIMENTATION & EROSION CONTROL PLAN**

**529 JOHNS ROAD**

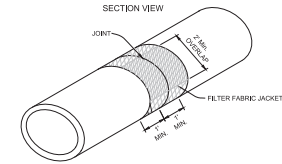
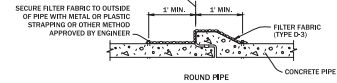
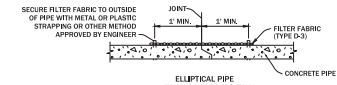
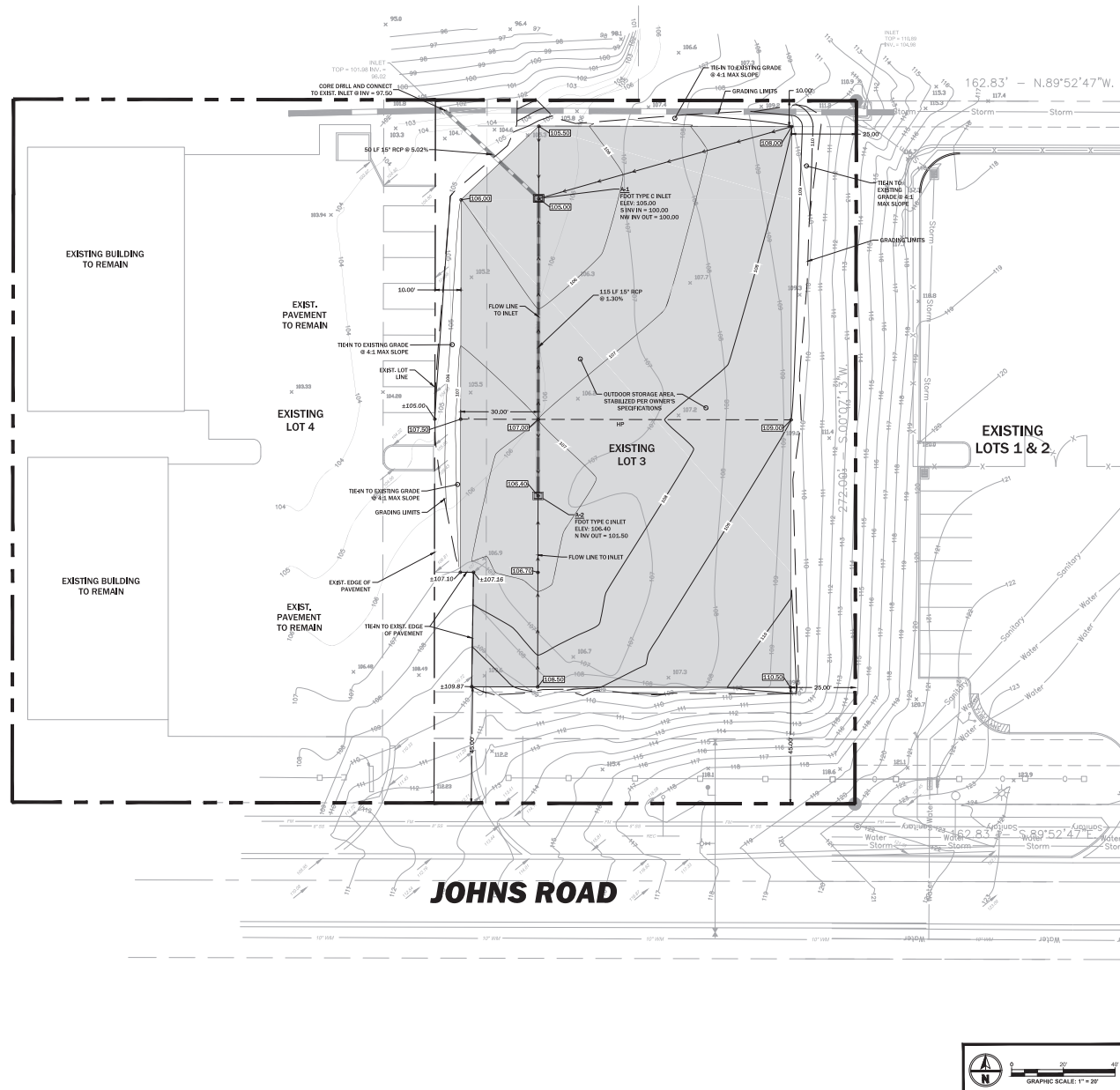
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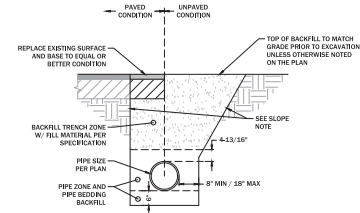
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- NOTES:
1. COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE COVERTS
  2. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.

#### FILTER FABRIC JACKET



#### PLAN LEGEND:

- PROPERTY LINE / PROJECT BOUNDARY
- PROPOSED STABILIZATION
- GRADING LIMITS
- PAVEMENT SAWCUT LINE
- EXISTING GRADE CONTOUR
- PROPOSED SPOT ELEVATION
- APPROXIMATE EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- EXISTING CONTOUR

NOTE:  
LOTS 3 AND 4 ARE PROPOSED TO BE COMBINED THROUGH ORANGE COUNTY PROPERTY APPRAISER LOT AGGREGATION

PREPARED BY:  
**RITTER CIVIL**  
ENGINEERING + PLANNING  
460 PINEY CROFT LANE, WATLAND, IL 62751  
618-466-2270 • WWW.RITTERCIVIL.COM

PREPARED FOR:  
**MCNULTY GROUP**

**PAVING, GRADING &  
DRAINAGE PLAN**  
529 JOHNS ROAD

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# Construction Site Plan

Issued for Construction Plan Approval

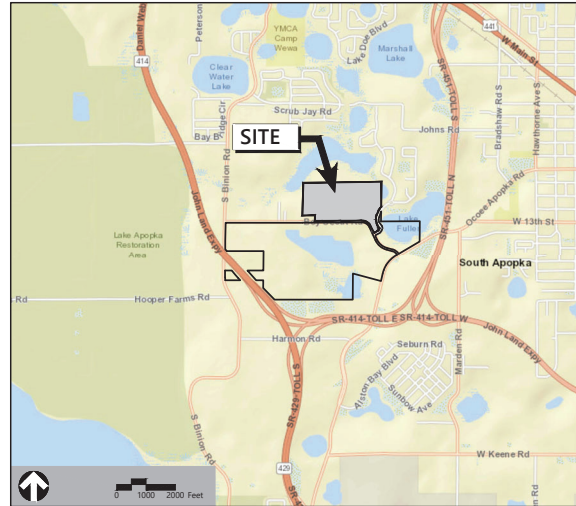
Date Issued February 25, 2022

Latest Issue January 17, 2024

## The Ridge PD - Parcel 2

City of Apopka, Florida

Parcel IDs: 17-21-28-0000-00-006, 17-21-28-0000-00-017,  
17-21-28-0000-00-018, 17-21-28-0000-00-023



### Owner

DRP FL 5 LLC  
590 Madison Ave, 13th Floor  
New York, NY 10022  
P 212-751-5950

### Applicant

Toll Brothers Inc.  
2966 Commerce Park Drive  
Suite 100  
Orlando, Florida 32809  
P 407-345-6006

### Sheet Index

| No.           | Drawing Title                              | Latest Issue      |
|---------------|--------------------------------------------|-------------------|
| C1.00         | Legend, Abbreviations & Notes              | November 22, 2023 |
| C1.01         | Existing Conditions & Erosion Control Plan | November 22, 2023 |
| C1.02         | Erosion Control Details                    | November 22, 2023 |
| C1.05         | Master Site Plan & Site Data               | January 17, 2024  |
| C1.10 - C1.11 | Typical Sections & Details                 | November 22, 2023 |
| C2.01-C2.04   | Lot Grading Plan                           | November 22, 2023 |
| C2.05         | Grading Details                            | November 22, 2023 |
| C2.10 - C2.11 | Control Structure Details                  | November 22, 2023 |
| C3.01-C3.04   | Drainage & Wastewater Plan                 | January 17, 2024  |
| C4.01-C4.04   | Water Distribution Plan                    | January 17, 2024  |
| C4.05-C4.08   | Reclaimed Water Distribution Plan          | January 17, 2024  |
| C5.01-C5.04   | Layout & Materials Plan                    | January 17, 2024  |
| C6.01-C6.14   | Plan & Profile                             | January 17, 2024  |
| C7.00         | Fire Access Plan                           | November 22, 2023 |
| C9.00-C9.02   | Standard F.D.O.T. Details                  | November 22, 2023 |
| C9.03-C9.06   | Standard Utility Details                   | November 22, 2023 |

| No.       | Drawing Title                                      | Latest Issue     |
|-----------|----------------------------------------------------|------------------|
| Shts. 1-8 | ALTA/NSPS Land Title Boundary & Topographic Survey | November 9, 2020 |

### Community Planner & Civil Engineer

VHB  
225 E. Robinson Street  
Suite 300  
Orlando, Florida 32801  
P 407-839-4006 - 407-839-4008

### Geotech

Yovaish Engineering Services, LLC  
953 Sunshine Lane  
Altamonte Springs, Florida 32714  
P 407-774-9383 - 407-478-8978

### Environmental

Bio-Tech Consulting Inc.  
3025 E. South Street  
Orlando, Florida 32803  
P 407-894-5969 - 407-894-5970

### Land Use Attorney

Gray Robinson P.A.  
301 E. Pine Street  
Suite 1400  
Orlando, Florida 32801  
P 407-843-8880

### Surveyor

VHB  
225 E. Robinson Street  
Suite 300  
Orlando, Florida 32801  
P 407-839-4006 - 407-839-4008

### Allen & Company

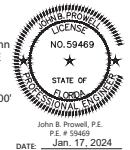
16 E. Plant Street  
Winter Garden, Florida 34787  
P 407-654-5355

### Development Scope

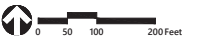
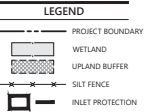
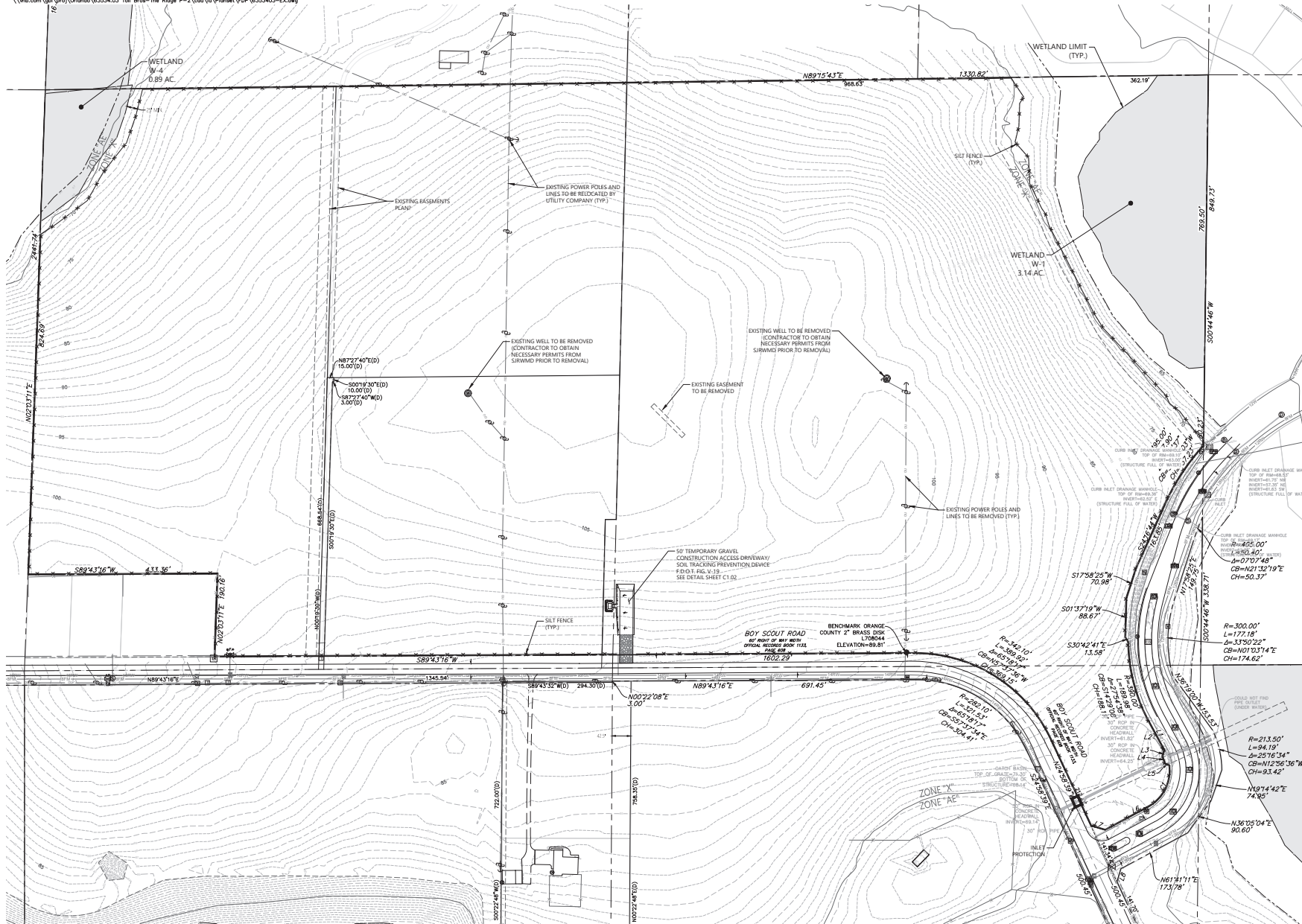
This development generally includes "Parcel 2" of the PD for The Ridge. Improvements include roadways, sidewalks, utilities, grading, stormwater, and site layout for a residential subdivision.

John B. Prowell, P.E.  
I, PE

Digitally signed by John B. Prowell, PE  
Date: 2024.02.07 08:47:25 -05'00'







## The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revisions               | 11/11/2022 |        |
| 3   | Submittal to SWMWD             | 10/18/2023 |        |
| 4   | SWMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

|             |      |            |     |
|-------------|------|------------|-----|
| Designed by | DNMK | Checked by | JBH |
| Drawn by    |      | Date       |     |

Construction Site Plan  
Vertical Datum NAVD 1988

Existing Conditions & Erosion Control Plan

Stamp: PROFESSIONAL ENGINEER, STATE OF FLORIDA, NO. 59469, John S. Prosser, P.E., DATE: Jan. 17, 2024, 63534.03

Sheet Number: **C1.01**



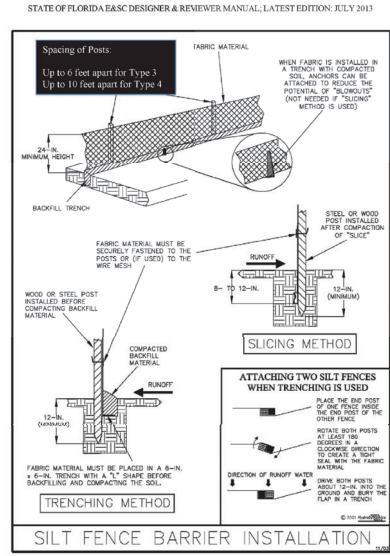


Figure V-2: Illustration of a Silt Fence Barrier

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V-7

NOTES

- Silt fence barriers are not to be used where concentrated flows of water are anticipated such as in drainage ditches, around inlets, or above/below where culverts discharge.
- When installed properly, silt fence barriers can create Type-2 sediment containment systems to allow for deposition of suspended particles, especially on vertical-bay box construction sites.
- Silt fence barriers do not filter small-suspended particles in runoff waters.
- Using wire backing for support is discouraged due to disposal problems.
- Compacting trench fill material is very critical.

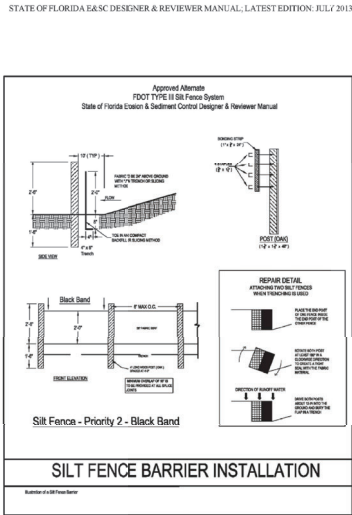


Figure V-3: Illustration of Silt Fence Priority 2 - Black Band

V-10

NOTES

- The life of the product is determined at the point in which it is no longer effective or needed to do the job for which it is designed (Approximately one year).
- Installation Specifications:** The method of installation for the Priority 2 Silt Fence is an integral part of the system and is unlike other installation practices. The specifically designed process includes wood (oak) stakes and wood bonding strips placed at six (6") foot intervals. The silt fence shall be installed in a trench 4" wide and 8" deep. Installation of trenches over 4" wide are not recommended. Stakes are driven to a depth, which allows 24" of fabric to be above ground. The bonding strips (typically 1" x 3/8" x 24") are attached to the stake with 1" x 1 1/4" staples. Four staples are used to secure the fabric in place against the 1 1/8" x 1 1/8" oak posts. This installation bonds the fabric to the vertical support post. The remaining fabric is now tucked into the trench forming a "J" and when filled with dirt creates a "ground knee". With no direct attachment to each post, the load is now spread to the total linear strength of all the posts within the system.
- Any variance from the material specifications installation requirements may alter the performance of this product. The product is available pre-staked to these specifications.*

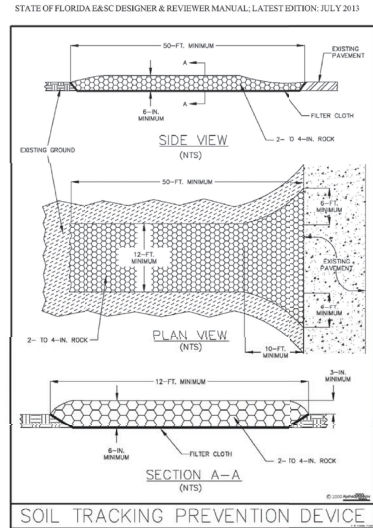


Figure V-19: Illustration of a Soil Tracking Prevention Device

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V-44

NOTE:  
EROSION AND SEDIMENT CONTROL MEASURES  
TO BE IN ACCORDANCE WITH F.D.O.T. "EROSION  
AND SEDIMENT CONTROL DESIGNER AND  
REVIEWER MANUAL", LATEST EDITION.

## The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revision                | 11/11/2022 |        |
| 3   | Submit to SRWMD                | 10/19/2023 |        |
| 4   | SRWMD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planting Revisions | 05/11/2024 |        |

|             |            |
|-------------|------------|
| Designed by | Checked by |
| DMK         | JBH        |

Construction Site Feb. 25, 2022

Plan

Vertical Datum NAVD 1988

Erosion Control Details

Drawing Number

**C1.02**

State of Florida Professional Engineer

John B. Prosser, P.E.  
P.E. # 59469  
DATE: Jan. 17, 2024

63534.03



|                           |           |   |
|---------------------------|-----------|---|
| ZONING                    | PD        |   |
| PROPOSED UNITS:           | 313       | △ |
| SINGLE FAMILY             | 95        |   |
| TOWNHOMES                 | 218       |   |
| TOTAL GROSS ACRES         | 79.57 Ac. |   |
| TOTAL WETLAND ACRES       | 4.08 Ac.  |   |
| IMPACTED WETLAND ACRES    | 0.00 Ac.  |   |
| PRESERVED WETLAND ACRES   | 4.08 Ac.  |   |
| TOTAL DEVELOPABLE ACRES   | 75.49 Ac. |   |
| OPEN SPACE                | 28.83 Ac. |   |
| TOTAL STORMWATER PROVIDED | 6.84 Ac.  |   |
| DEDICATED PUBLIC ROW      | 13.90 Ac. | △ |

NOTES:

- (1) SEE SECTION SEC. 3.04.06 (10) (a) (1) FOR FRONT LOADED GARAGE DOORS SETBACKS.
- (2) MIN. 20' BUILDING SETBACK ASSUMES NO ALLEY. THE MIN. REAR BUILDING SETBACK FOR ALLEYS IS 5'. GARAGES WITH DIRECT ACCESS FROM AN ALLEY SHALL BE SET BACK WITH A MINIMUM OF 22 FEET FROM THE PROPERTY LINE. SEC. 3.04.06 (10) (a) (3).
- (3) MIN. 3' REAR PRIMARY STRUCTURE SETBACK WITH DETACHED GARAGE.
- (4) MINIMUM LIVING AREA IS DEFINED AS HEATED AND COOLED AREA OF HOUSE, NOT INCLUDING GARAGES OR OTHER STRUCTURES.
- (5) CORNER SIDE SETBACK IS 15' FOR SINGLE FAMILY LOTS AND 10' FOR TOWNHOME LOTS.

THIS PROJECT WILL BE DEVELOPED IN FIVE (5) PHASES

|                                                   |                |             |
|---------------------------------------------------|----------------|-------------|
| POTABLE WATER SERVICE:                            | CITY OF APOPKA |             |
| WASTEWATER, RECLAIMED SERVICE:                    | CITY OF APOPKA |             |
| ELECTRIC SERVICE:                                 | DUKE ENERGY    |             |
| FIRE PROTECTION:                                  | CITY OF APOPKA |             |
| SCHOOL AGE POPULATION:                            | 80             | (313 UNITS) |
| AVERAGE DAILY TRAFFIC PER ITE 210 (10TH EDITION): | 3,049          |             |
| P.M. PEAK HOUR TRIPS:                             | 685            |             |

| 20% REQUIRED PUBLIC OPEN SPACE HAS BEEN ACCOUNTED FOR WITHIN THE POND TRACTS, BUFFERS, AND GREEN SPACE |                      |                  |                  |
|--------------------------------------------------------------------------------------------------------|----------------------|------------------|------------------|
| TOTAL DEVELOPABLE ACRES                                                                                | REQUIRED (20%) ACRES | OPEN SPACE ACRES |                  |
| 75.49                                                                                                  | 15.10                | OPEN SPACE TRACT | 3.66 ac.         |
|                                                                                                        |                      | STORMWATER TRACT | 2.13 ac.         |
|                                                                                                        |                      | STORMWATER TRACT | 5.57 ac.         |
|                                                                                                        |                      | STORMWATER TRACT | 3.73 ac.         |
|                                                                                                        |                      | UPLAND BUFFER    | 0.34 ac.         |
|                                                                                                        |                      | <b>TOTAL</b>     | <b>15.43 ac.</b> |

△

RESIDENTIAL COMMUNITY SIGNAGE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 5.10.9 AND NON-RESIDENTIAL STANDARDS SHALL COMPLY WITH 5.10.7 OF THE CITY OF APOKA LAND DEVELOPMENT CODE.

EXTERIOR LIGHTING SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 5.6 OF THE CITY OF APOPKA LAND DEVELOPMENT CODE

FRONT LOADED SINGLE-FAMILY UNITS TO BE PICKED UP AT FRONT (R/W). REAR LOADED SINGLE-FAMILY UNITS AND TOWNHOME UNITS TO BE PICKED UP AT REAR ALLEY.

1. FIRE HYDRANTS SHALL BE INSTALLED SO THAT THE DESIGN AND CALCULATIONS MEET THE REQUIREMENTS IN THE CITY OF APOPKA CODE OF ORDINANCES AND THE FLORIDA FIRE PREVENTION CODE 7th EDITION (2020).

2. FIRE ACCESS SHALL BE FROM THE FRONT OF THE PROPOSED DWELLING UNITS. ACCESS SHALL BE IN ACCORDANCE WITH CHAPTER 18 NFPA 1 & 101, 2021 EDITION, IFPC 7TH EDITION (2020).

3. NEARBY FIRE FLOW FOR SINGLE FAMILY DWELLINGS SHALL BE AS FOLLOWS: HOME 5,000 SQUARE FEET OR LESS 1,000 GPM; HOME EXCEEDS 5,000 SQUARE FEET SHALL PROVIDE FIRE FLOW IN ACCORDANCE WITH TABLE 18.4.2.12 OF NFPA 1 & 101, 2021 EDITION, IFPC 7TH EDITION (2020); REDUCTION OF FIRE FLOW MAY BE PERMITTED IF DWELLING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM OR SEPARATED FROM OTHER DWELLING UNITS BY A FIRE WALL, BUT IN NO CASE SHALL BE LESS THAN 1,000 GPM. SEE NFPA 18 NFPA1, 2021 EDITION, IFPC 7TH EDITION (2020). 

4. ANY COMMERCIAL STRUCTURE OR RESIDENTIAL BUILDING OF THREE OR MORE STOREYS MAY BE REQUIRED TO HAVE AN AUTOMATIC FIRE SPRINKLER PROTECTION DEPENDING UPON THE BUILDING CONSTRUCTION TYPE, OCCUPANCY CLASSIFICATION, AND ADDITIONAL BUILDING OR FIRE SAFETY REQUIREMENTS.

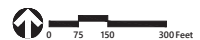
ARCHITECTURAL DESIGN SHALL MEET THE INTENT OF THE CITY OF APOPKA'S DEVELOPMENT DESIGN GUIDELINES

1. LANDSCAPING AND BUFFER STANDARDS SHALL BE IN ACCORDANCE WITH TABLE 5.2.5.3.D-1: BUFFERYARD APPLICATION OF THE CITY OF APOKA LAND DEVELOPMENT CODE. INTERIOR LANDSCAPE BUFFERS BETWEEN ADJUTING PROPERTY BOUNDARIES MAY HAVE A TEN (10) FOOT WIDE LANDSCAPE BUFFER. LANDSCAPING STANDARDS FOR RESIDENTIAL DEVELOPMENT SHALL ADHERE TO SECTION 5.2.2(B) OF THE CITY OF APOKA LAND DEVELOPMENT CODE

|                                                        |         |                                                                                                                                                                       |   |
|--------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| ROADWAYS                                               | PUBLIC: | TO BE OWNED AND MAINTAINED BY THE CITY OF APOPKA WHERE PARKING SPACE STRIPING IS PROVIDED IN THE ROW. THE STRIPING SHALL BE MAINTAINED BY THE HOME OWNERS ASSOCIATION | △ |
| STORMWATER TRACTS                                      | PUBLIC: | TO BE OWNED AND MAINTAINED BY THE HOME OWNERS ASSOCIATION, WITH EASEMENTS TO THE CITY OF APOPKA                                                                       |   |
| DRAINAGE EASEMENTS                                     | PUBLIC: | TO BE DEDICATED TO THE CITY OF APOPKA AND THE HOME OWNERS ASSOCIATION                                                                                                 |   |
| UTILITY EASEMENTS                                      | PUBLIC: | TO BE DEDICATED TO THE CITY OF APOPKA                                                                                                                                 |   |
| SANITARY SEWER, RECLAIMED WATER & POTABLE WATER SYSTEM | PUBLIC: | TO BE OWNED AND MAINTAINED BY THE CITY OF APOPKA                                                                                                                      |   |
| STORM SEWER SYSTEM                                     | PUBLIC: | TO BE OWNED AND MAINTAINED BY THE CITY OF APOPKA                                                                                                                      |   |
| PARK TRACTS                                            | PUBLIC: | TO BE OWNED AND MAINTAINED BY THE COMMUNITY DEVELOPMENT DISTRICT                                                                                                      |   |
| OPEN SPACE/LANDSCAPE TRACTS                            | PUBLIC: | TO BE OWNED AND MAINTAINED BY THE HOME OWNERS ASSOCIATION                                                                                                             |   |
| RETAINING WALLS                                        | PUBLIC: | TO BE OWNED AND MAINTAINED BY THE HOME OWNERS ASSOCIATION                                                                                                             | △ |

**LEGEND**

- PROPERTY BOUNDARY
- PROJECT BOUNDARY
- PHASE LINE
- WETLAND
- UPLAND BUFFER
- PROPOSED TRAIL
- MODEL HOME



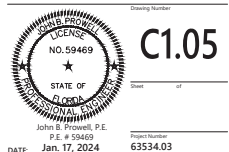
## Apopka, Florida

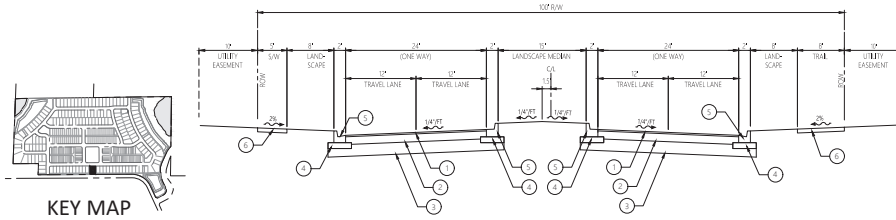
| No. | Revision                      | Date       | Appor |
|-----|-------------------------------|------------|-------|
| 1   | City of Apopka Comments       | 05/17/2022 |       |
| 2   | Client Revision               | 11/11/2022 |       |
| 3   | Submit to SJRWMD              | 10/18/2023 |       |
| 4   | SJRWMD Comments               | 11/02/2023 |       |
| 5   | Phase 2 Sub-Phasing Revisions | 01/17/2024 |       |

|             |            |
|-------------|------------|
| Designed by | Checked by |
| DMK         | JRH        |
| Issued for  | Date       |

Construction Site  
Plan  
Vertical Datum NAVD 1988

## Master Site Plan & Site Data

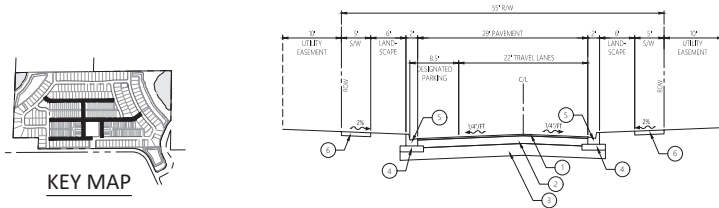




KEY MAP

### A - Typical Entrance Road Section (100' ROW)

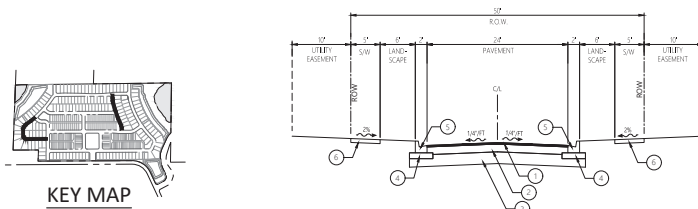
N.T.S.



KEY MAP

### C - Typical Road Section - Parking One Side (55' ROW)

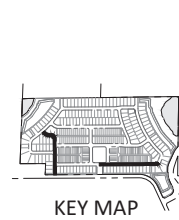
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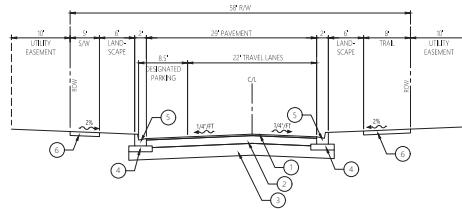
KEY MAP

### E - Typical Road Section - (50' ROW)

N.T.S.

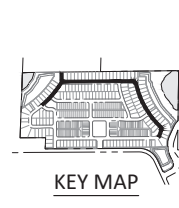


KEY MAP

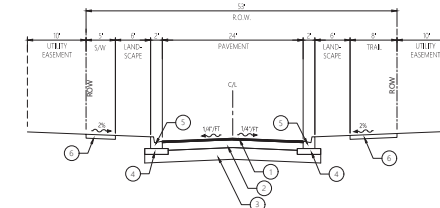


### B - Typical Road Section - Parking One Side (58' ROW)

N.T.S.



KEY MAP



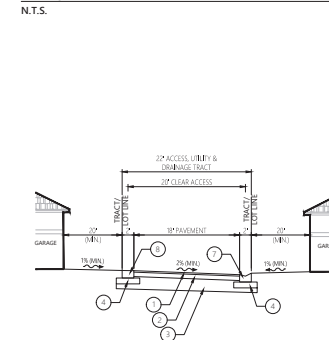
### D - Typical Road Section - (53' ROW)

N.T.S.

FOR RESIDENTIAL DEVELOPMENT -  
INCLUDES SIGNAGE TO ALLOW PARKING ON ONE SIDE OF ROAD ONLY.

### F - Typical Alley Road Section - Two Way

N.T.S.



NOTES:  
1. THERE SHALL BE NO STRUCTURE OR ANY KIND OF PERMANENT OBSTRUCTION IN REAR ALLEY ACCESS TRACT.  
2. A MINIMUM 35-FOOT TURNING RADIUS SHALL BE PROVIDED WITHIN ALLEYS AND AT INTERSECTIONS BETWEEN ALLEYS. A MINIMUM 25-FOOT TURNING RADIUS SHALL BE PROVIDED WHERE ALLEYS INTERSECT ROADWAYS. THE TURNING RADIUS SHALL BE MEASURED FROM THE INSIDE OF THE CURB.

### F - Typical Alley Road Section - Two Way

N.T.S.

- LEGEND:
- 1 1 1/2" (IN) SP 9.5 ASPHALT (COMPACTED TO 93% OF LABORATORY MAXIMUM DENSITY)
  - 2 8" (IN) CRUSHED CONCRETE BASE (BBR 150) (COMPACTED TO A DENSITY OF MIN. 98% MODIFIED PROCTOR PER AASHTO T-180)
  - 3 8" (IN) LIMEROCK BASE (BBR 100) (COMPACTED TO A DENSITY OF MIN. 98% MODIFIED PROCTOR PER AASHTO T-180)
  - 4 12" (IN) STABILIZED SUBGRADE (BBR 40) (COMPACTED TO MIN. 98% OF MODIFIED PROCTOR MAX. DRY DENSITY PER AASHTO T-180)
  - 5 6" (IN) STABILIZED SUBGRADE IN CURB AREA TO EXTEND 12" (IN) EACH SIDE TO 50 FFW
  - 6 TYPE 'F' CONCRETE CURB
  - 7 4" (IN) CONC. SIDEWALK (3000 P.S.I.)
  - 8 TYPE 'DROP CURB' CONCRETE CURB
  - 9 2" RIBBON CURB

\* FOR DETAILS ON PAVEMENT SECTIONS, SEE REPORT BY DEVO ENGINEERING, DATED OCTOBER 10, 2019.  
\* CRUSHED CONCRETE BASE WITHIN PUBLIC RIGHTS OF WAY SHALL MEET THE REQUIREMENTS OF SECTION 204.2 OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

## The Ridge PD Parcel 2

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revisions               | 11/11/2022 |        |
| 3   | Submit to SMMWD                | 10/18/2023 |        |
| 4   | SMMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

Designed by: DMK  
Reviewed by: JBR

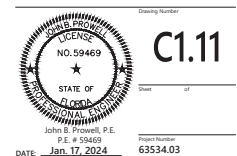
Construction Site Plan  
Vertical Datum NAVD 1988

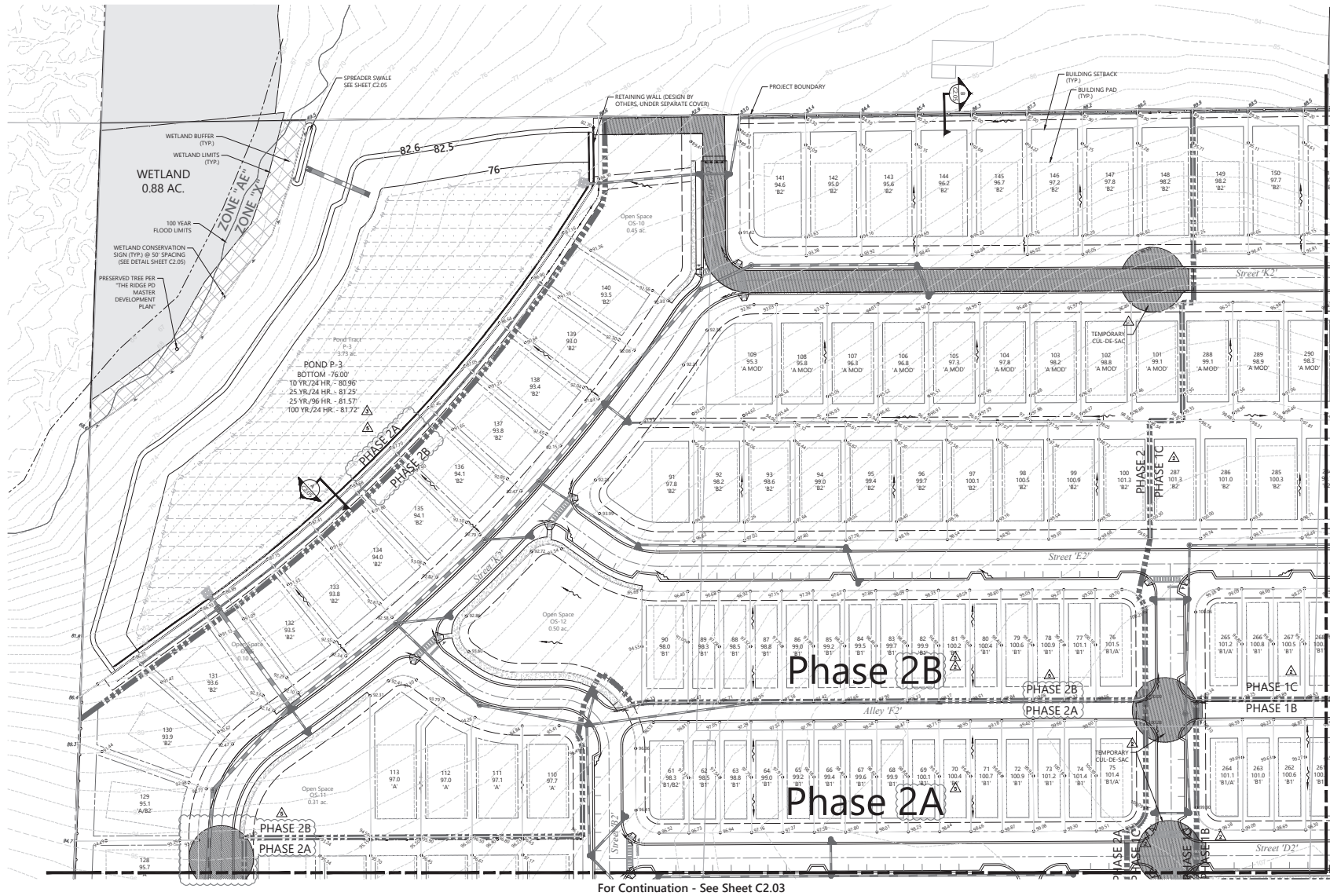
## Typical Sections

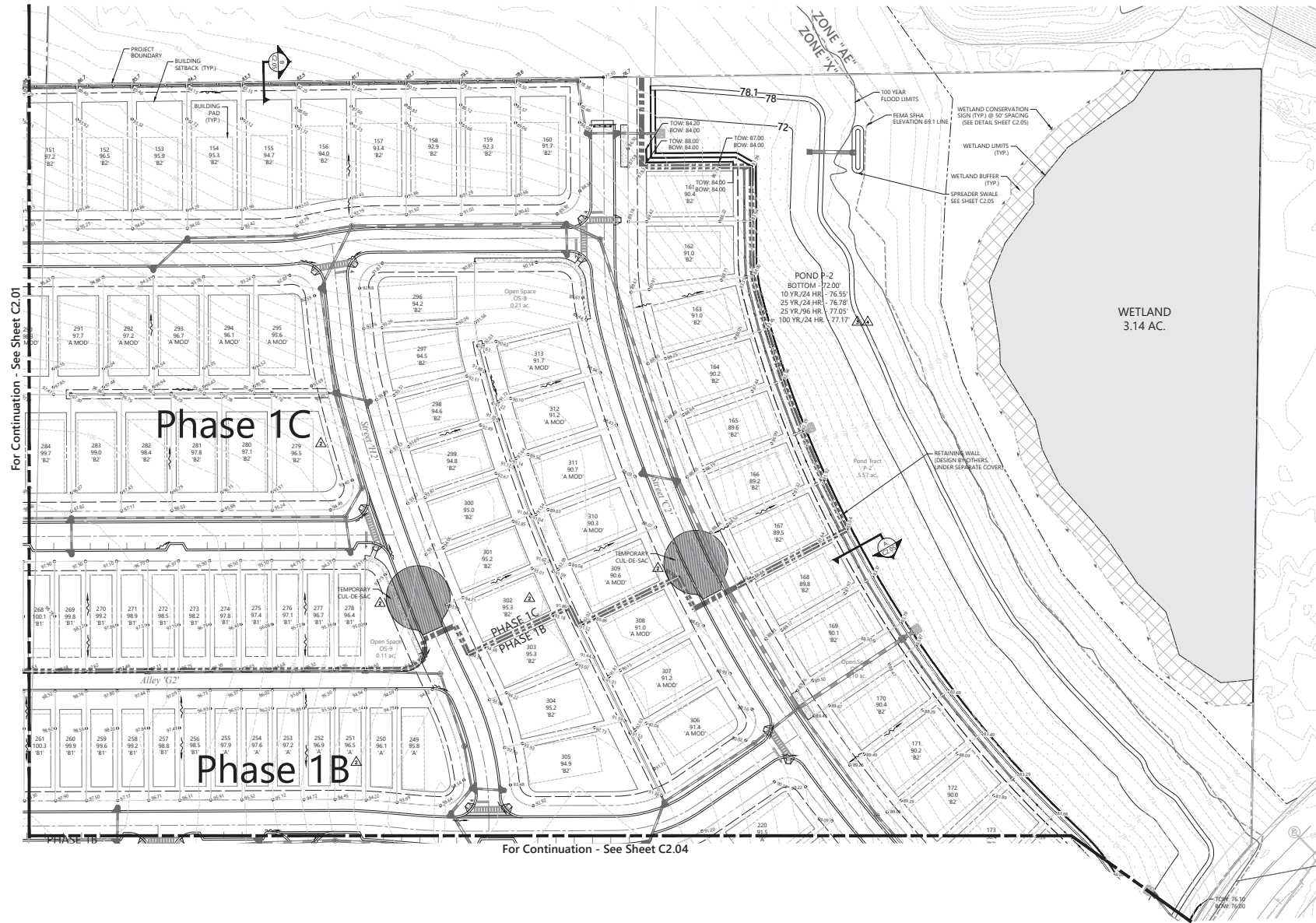




## Typical Sections & Details







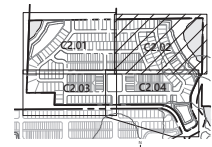
For Continuation - See Sheet C2.01

For Continuation - See Sheet C2.04

|       |                      |
|-------|----------------------|
| 1     | LOT NUMBER           |
| 120.0 | PROP. FIN. FL. ELEV. |
| 'A'   | LOT GRADE TYPE       |

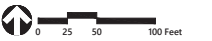


225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932



Key Map

| LEGEND   |                                           |
|----------|-------------------------------------------|
| [Symbol] | PROJECT BOUNDARY                          |
| [Symbol] | PHASE LINE                                |
| [Symbol] | PRESERVED WETLAND                         |
| [Symbol] | UPLAND BUFFER                             |
| [Symbol] | PROPOSED STORM DRAIN, CURB INLET, MANHOLE |
| [Symbol] | EXISTING TOPOGRAPHIC CONTOUR              |
| [Symbol] | PROPOSED GRADE                            |
| [Symbol] | EXISTING GRADE                            |
| [Symbol] | FLOW DIRECTION                            |



## The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revision                | 11/11/2022 |        |
| 3   | Submitted to SWMWD             | 10/19/2023 |        |
| 4   | SWMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planting Revisions | 05/11/2024 |        |

Designed by: DMK

Checked by: JBH

Date: Feb. 25, 2022

Construction Site Plan

Vertical Datum NAVD 1988

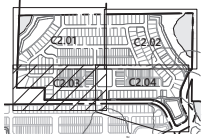
Lot Grading Plan

Professional Engineer  
No. 59469  
State of Florida  
John B. Prosser, P.E.  
P.E. # 59469  
DATE: Jan. 17, 2024

63534.03

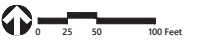
C2.02





Key Map

| LEGEND |                                           |
|--------|-------------------------------------------|
|        | PROJECT BOUNDARY                          |
|        | PHASE LINE                                |
|        | PRESERVED WETLAND                         |
|        | UPLAND BUFFER                             |
|        | PROPOSED STORM DRAIN, CURB INLET, MANHOLE |
|        | EXISTING TOPOGRAPHIC CONTOUR              |
|        | PROPOSED GRADE                            |
|        | EXISTING GRADE                            |
|        | FLOW DIRECTION                            |



**The Ridge PD  
Parcel 2**

| Apopka, Florida |                                |            |
|-----------------|--------------------------------|------------|
| No.             | Revisions                      | Date       |
| 1               | City of Apopka Comments        | 05/11/2022 |
| 2               | Client Revisions               | 11/11/2022 |
| 3               | Submit to SWMMD                | 10/19/2023 |
| 4               | SWMMD Comments                 | 11/02/2023 |
| 5               | Phase 2 Sub-Planning Revisions | 05/11/2024 |

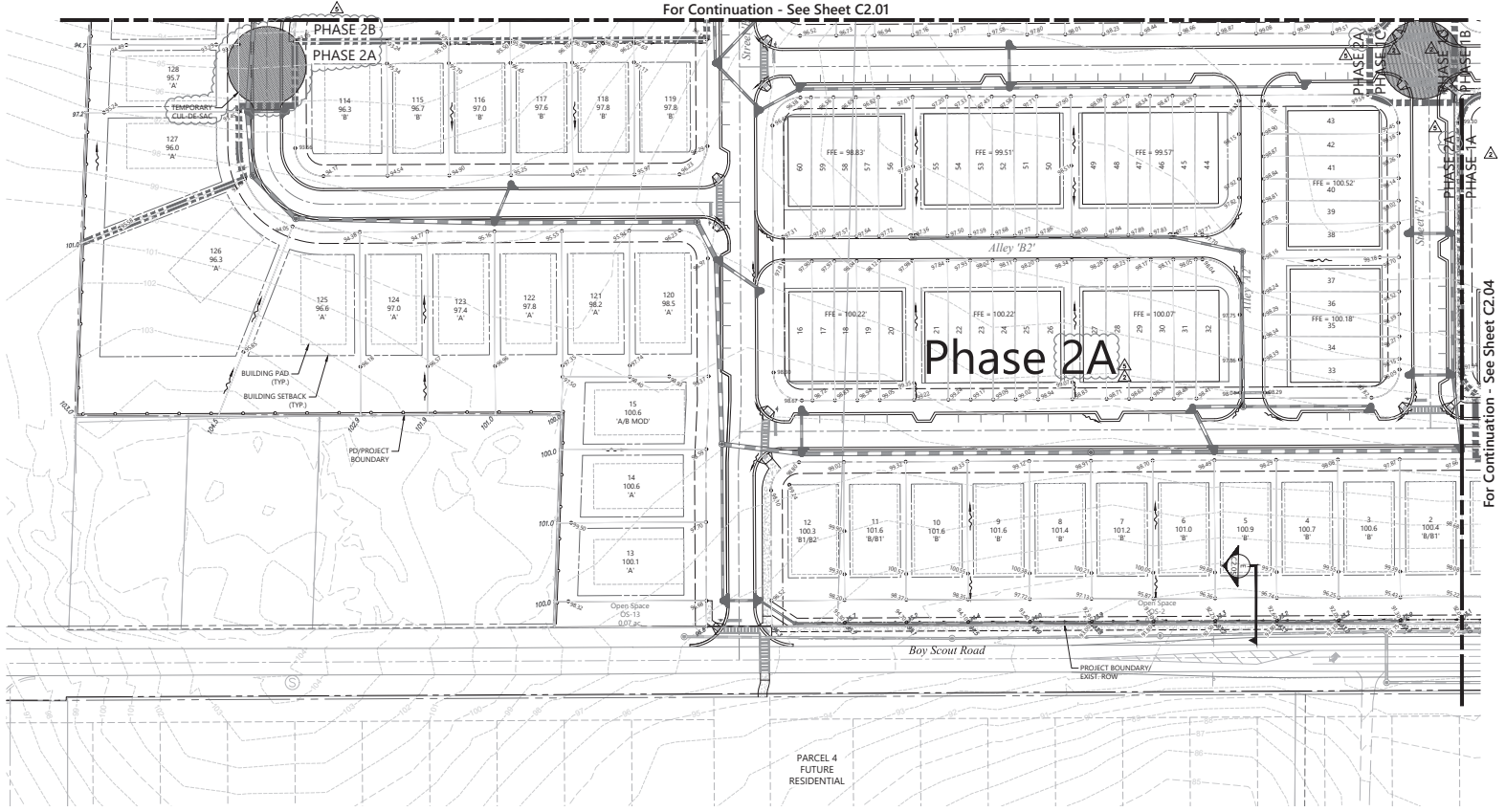
|             |               |
|-------------|---------------|
| Designed by | Checked by    |
| DMK         | JBH           |
| Reviewed by | Date          |
|             | Feb. 25, 2022 |

**Construction Site  
Plan**  
Vertical Datum NAVD 1988  
Lot Grading Plan

Drawing Number **C2.03**

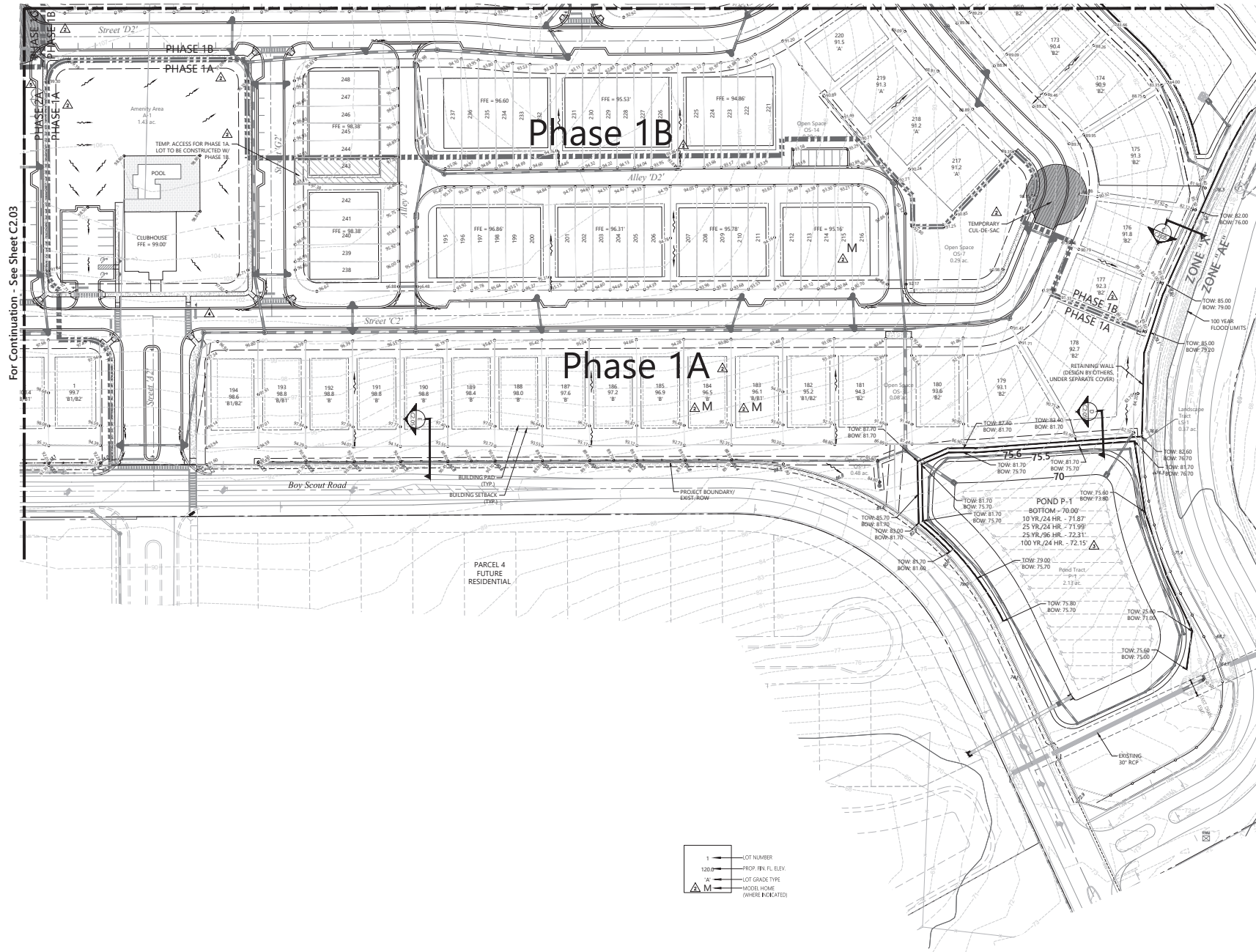
Date: 01/17/2024

State of Florida  
Professional Engineer  
John B. Prosser, P.E.  
P.E. # 59469  
DATE: Jan. 17, 2024 63534.03



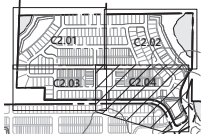
|       |                      |
|-------|----------------------|
| 1     | LOT NUMBER           |
| 120.0 | PROP. FIN. FL. ELEV. |
| 'A'   | LOT GRADE TYPE       |

For Continuation - See Sheet C2.02



**vhb**

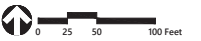
225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932



Key Map

**LEGEND**

- PROJECT BOUNDARY
- PHASE LINE
- PRESERVED WETLAND
- UPLAND BUFFER
- PROPOSED STORM DRAIN, CURB INLET, MANHOLE
- EXISTING TOPOGRAPHIC CONTOUR
- PROPOSED GRADE
- EXISTING GRADE
- FLOW DIRECTION
- POLLUTION ABATEMENT SWALE



### The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revision                | 11/11/2022 |        |
| 3   | Submit to SMMWD                | 10/19/2023 |        |
| 4   | SMMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

|             |     |            |               |
|-------------|-----|------------|---------------|
| Designed by | DMK | Checked by | JBH           |
| Reviewed by |     | Date       | Feb. 25, 2022 |

Construction Site Plan  
Vertical Datum NAVD 1988

### Lot Grading Plan

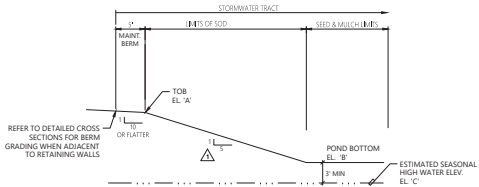
Drawing Number: **C2.04**

State of Florida Professional Seal: NO. 59469, John B. Prosser, P.E., P.E. # 59469

DATE: Jan. 17, 2024 63534.03

### Dry Pond Summary Chart

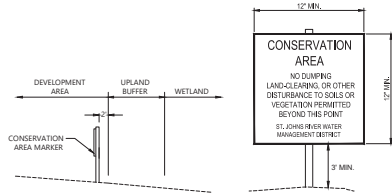
| Pond # | EL. 'A' | EL. 'B' | EL. 'C' |
|--------|---------|---------|---------|
| 1      | 75.5    | 70.0    | 60.0    |
| 2      | 78.0    | 72.0    | 61.0    |
| 3      | 82.5    | 76.0    | 65.0    |



POND SLOPES & MAINTENANCE BERMS SHALL BE IN ACCORDANCE WITH CITY OF APOPKA LDC SECTION 6.025.00 D.1.a

### Typical Dry Pond Detail

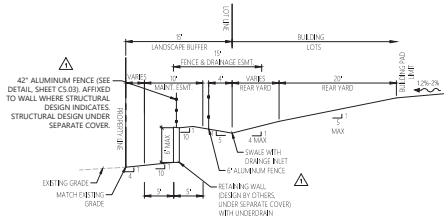
N.T.S.



- NOTES:
1. CONSERVATION SIGNS TO BE PLACED ON 150' CENTERS ALONG COMMON AREAS AND AT THE REAR CORNER OF EVERY OTHER LOT.
  2. THE SIGN SHALL BE PLACED ON THE UPLAND MOST EDGE OF THE WETLAND BUFFER OR UPLAND PRESERVATION AREA.

### Typical Wetland Conservation Sign Detail

N.T.S.



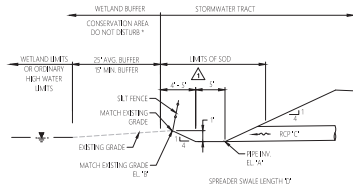
- NOTES:
1. ALL WALLS SHALL HAVE UNDERDRAIN SYSTEM, INSTALLED ACCORDING TO THE STRUCTURAL ENGINEERING PLANS. UNDERDRAINS SHALL BE 6" PVC DRAIN PIPE WITH FILTER SOCK, SURROUNDED BY 3" GRAVEL FOR A MINIMUM OF 6" OUTSIDE THE PIPE WALLS, WITH A FILTER FABRIC WRAP ENCASED THE GRAVEL. UNDERDRAINS SHALL CONNECT TO THE OUTFALL STRUCTURE OR PIPE AT THE ASSOCIATED WALL SYSTEM.
  2. THE WALL, STORM SEWER, AND UNDERDRAIN SHALL ALL BE INSTALLED AT THE SAME TIME, TO AVOID DISRUPTING THE STRUCTURAL SUPPORTS OF THE WALL SYSTEM.
  3. THE STORM SEWER AND UNDERDRAIN SHALL NOT INTERFERE WITH THE STRUCTURAL COMPONENTS OF THE WALL SYSTEM.

### C - Typical Grading Details

N.T.S.

### Spreader Swale Chart

| Swale # | EL. 'A' | EL. 'B' | RCP 'C' | Length 'D' |
|---------|---------|---------|---------|------------|
| P-2     | 67.8    | 69.1    | 24.0    | 50         |
| P-3     | 69.0    | 70.0    | 48.0    | 70         |

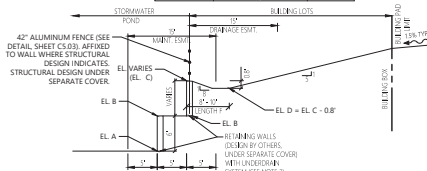


POND SLOPES & MAINTENANCE BERMS SHALL BE IN ACCORDANCE WITH CITY OF APOPKA LDC SECTION 6.025.00 D.1.a  
\*NO GRADING SHALL BE PERFORMED IN THE BUFFER OR WETLAND

### Typical Spreader Swale Grading Section

N.T.S.

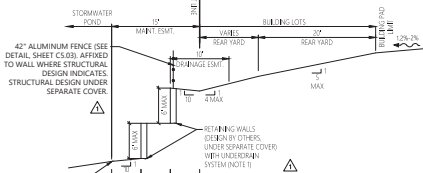
| EL. | EL. 'A' | EL. 'B' | LENGTH 'F' |
|-----|---------|---------|------------|
| P-2 | 72.0    | 78.0    | 8'-0"      |
| P-3 | 76.0    | 82.0    | 10'-0"     |



- NOTES:
1. "LENGTH 'F'" MEASURES THE DISTANCE TO THE STORM SEWER INLETS WITHIN THE SWALE. INLETS SHALL BE LOCATED NO CLOSER TO THE WALL THAN "LENGTH 'F'".
  2. ALL WALLS SHALL HAVE UNDERDRAIN SYSTEM, INSTALLED ACCORDING TO THE STRUCTURAL ENGINEERING PLANS. UNDERDRAINS SHALL BE 6" PVC DRAIN PIPE WITH FILTER SOCK, SURROUNDED BY 3" GRAVEL FOR A MINIMUM OF 6" OUTSIDE THE PIPE WALLS, WITH A FILTER FABRIC WRAP ENCASED THE GRAVEL. UNDERDRAINS SHALL CONNECT TO THE OUTFALL STRUCTURE OR PIPE AT THE ASSOCIATED WALL SYSTEM.
  3. THE WALL, STORM SEWER, AND UNDERDRAIN SHALL ALL BE INSTALLED AT THE SAME TIME, TO AVOID DISRUPTING THE STRUCTURAL SUPPORTS OF THE WALL SYSTEM.
  4. THE STORM SEWER AND UNDERDRAIN SHALL NOT INTERFERE WITH THE STRUCTURAL COMPONENTS OF THE WALL SYSTEM.

### A - Typical Grading Detail

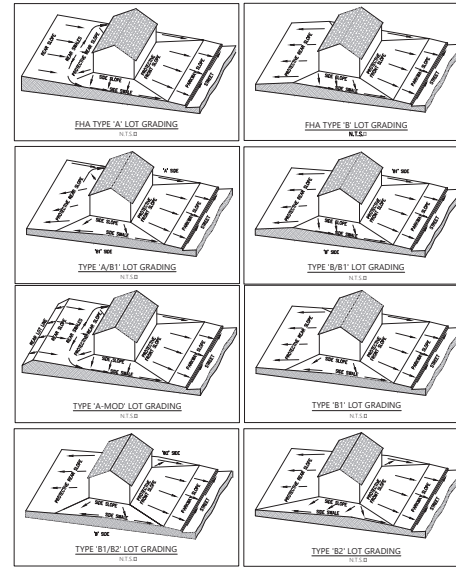
N.T.S.



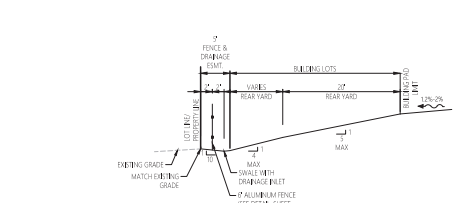
- NOTES:
1. ALL WALLS SHALL HAVE UNDERDRAIN SYSTEM, INSTALLED ACCORDING TO THE STRUCTURAL ENGINEERING PLANS. UNDERDRAINS SHALL BE 6" PVC DRAIN PIPE WITH FILTER SOCK, SURROUNDED BY 3" GRAVEL FOR A MINIMUM OF 6" OUTSIDE THE PIPE WALLS, WITH A FILTER FABRIC WRAP ENCASED THE GRAVEL. UNDERDRAINS SHALL CONNECT TO THE OUTFALL STRUCTURE OR PIPE AT THE ASSOCIATED WALL SYSTEM.
  2. THE WALL, STORM SEWER, AND UNDERDRAIN SHALL ALL BE INSTALLED AT THE SAME TIME, TO AVOID DISRUPTING THE STRUCTURAL SUPPORTS OF THE WALL SYSTEM.
  3. THE STORM SEWER AND UNDERDRAIN SHALL NOT INTERFERE WITH THE STRUCTURAL COMPONENTS OF THE WALL SYSTEM.

### D - Typical Grading Detail

N.T.S.

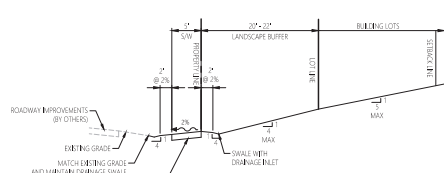


N.T.S.



### B - Typical Grading Detail

N.T.S.



### E - Typical Grading Details

N.T.S.

NOTES:  
FOR ANY CONDITION WHERE THE STRUCTURAL ENGINEERING PLANS OR GEOTECHNICAL PLANS FOR THE WALL DESIGN DIFFER FROM THE CIVIL CONSTRUCTION PLANS, THE STRUCTURAL DESIGN AND GEOTECHNICAL DESIGN SHALL GOVERN. SUBSTANTIAL CHANGES TO THE CIVIL CONSTRUCTION PLANS BASED ON THE THESE DESIGN SHALL BE REVIEWED AND APPROVED BY THE CONSTRUCTION PLAN ENGINEER AND, AS NECESSARY, THE CITY ENGINEER.

### The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revisions               | 11/11/2022 |        |
| 3   | Submit to SPMWD                | 06/16/2023 |        |
| 4   | SPMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

|             |     |            |               |
|-------------|-----|------------|---------------|
| Designed by | DMK | Checked by | JBH           |
| Drawn by    | S/W | Date       | Feb. 25, 2022 |

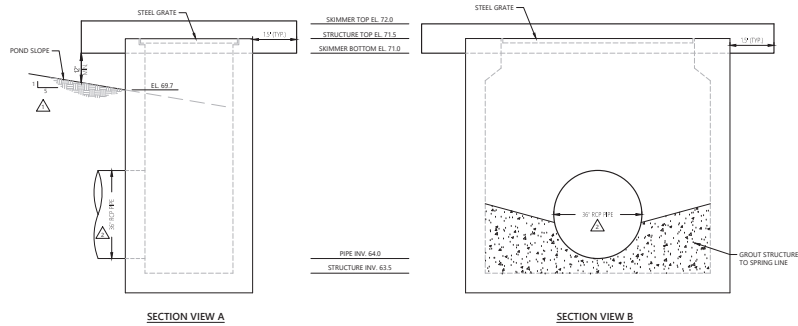
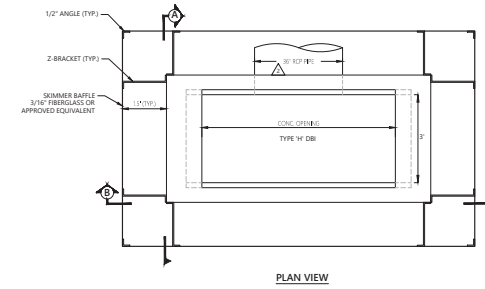
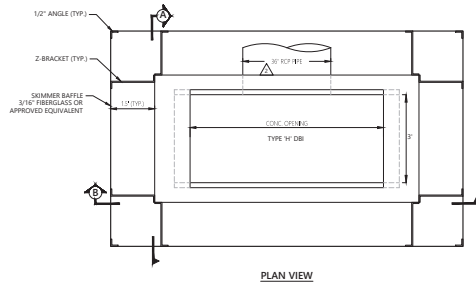
Construction Site  
Plan  
Vertical Datum NAVD 1988

### Grading Details

Stamp: PROFESSIONAL ENGINEER, NO. 59469, STATE OF FLORIDA, CIVIL, John B. Prosser, P.E., P.E. # 59469, DATE: Jan. 17, 2024, Project Number: 63534-03

Stamp: C2.05

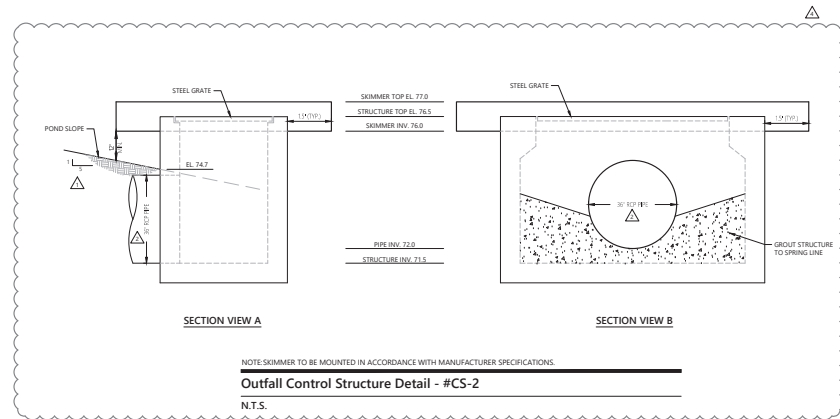




NOTE: SKIMMER TO BE MOUNTED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

**Outfall Control Structure Detail - #CS-1**

N.T.S.



NOTE: SKIMMER TO BE MOUNTED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

**Outfall Control Structure Detail - #CS-2**

N.T.S.

## The Ridge PD Parcel 2

Apopka, Florida

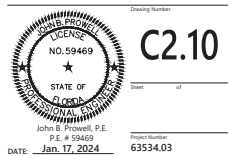
| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revision                | 11/11/2022 |        |
| 3   | Submit to SWMWD                | 10/18/2023 |        |
| 4   | SWMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planting Revisions | 01/11/2024 |        |

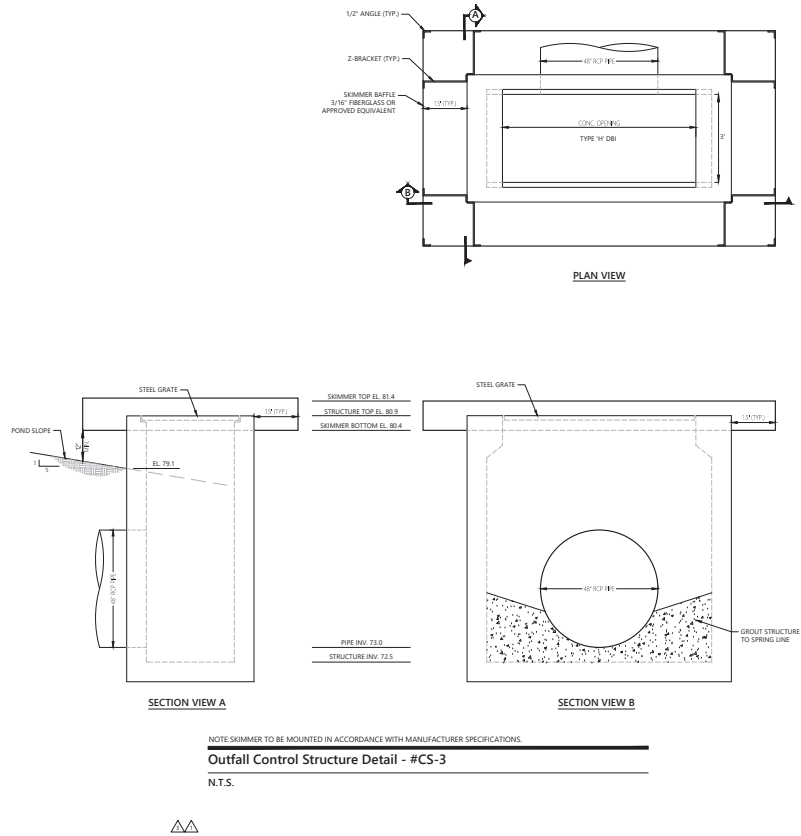
|             |            |
|-------------|------------|
| Designed by | Checked by |
| DMK         | JBH        |

Construction Site Plan

Vertical Datum NAVD 1988

Control Structure Details





**The Ridge PD  
Parcel 2**

Apopka, Florida

| No. | Revisions                      | Date       | Appr. |
|-----|--------------------------------|------------|-------|
| 1   | City of Apopka Comments        | 05/11/2022 |       |
| 2   | Client Revision                | 11/11/2022 |       |
| 3   | Submittal to SMMWD             | 10/18/2023 |       |
| 4   | SMMWD Comments                 | 11/02/2023 |       |
| 5   | Phase 2 Sub-Planting Revisions | 01/11/2024 |       |

Designed by: DMK Checked by: JBH

Reviewed by: Date: Feb. 25, 2022

Construction Site Plan

Vertical Datum NAVD 1988

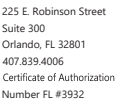
Control Structure Details

Drawing Number: **C2.11**

DATE: Jan. 17, 2024

63534.03

STATE OF FLORIDA  
Professional Engineer  
John B. Prosser, P.E.  
P.E. # 59469



- 

| # | Revisions                     | Completed  |
|---|-------------------------------|------------|
| 1 | City of Apopka Comments       | 05/17/2022 |
| 2 | Client Revision               | 11/11/2022 |
| 3 | Submit to SJRWMD              | 10/19/2023 |
| 4 | SJRWMD Comments               | 11/02/2023 |
| 5 | Phase 2 Sub-Phasing Revisions | 01/17/2024 |

Construction Site Feb. 25, 2022

Construction Site Feb. 25, 2022

Vertical Datum NAVD 1988

## Drainage & Wastewater

## Drainage & Wastewater Plan



John B. Prowell, P.E.  
P.E. # 59469  
DATE: Jan. 17, 2024

Project Number  
63534.03





- 

Apopka, Florida

|             |            |
|-------------|------------|
| Designed by | Checked by |
| DMK         | JRH        |
| Issued for  | Date       |

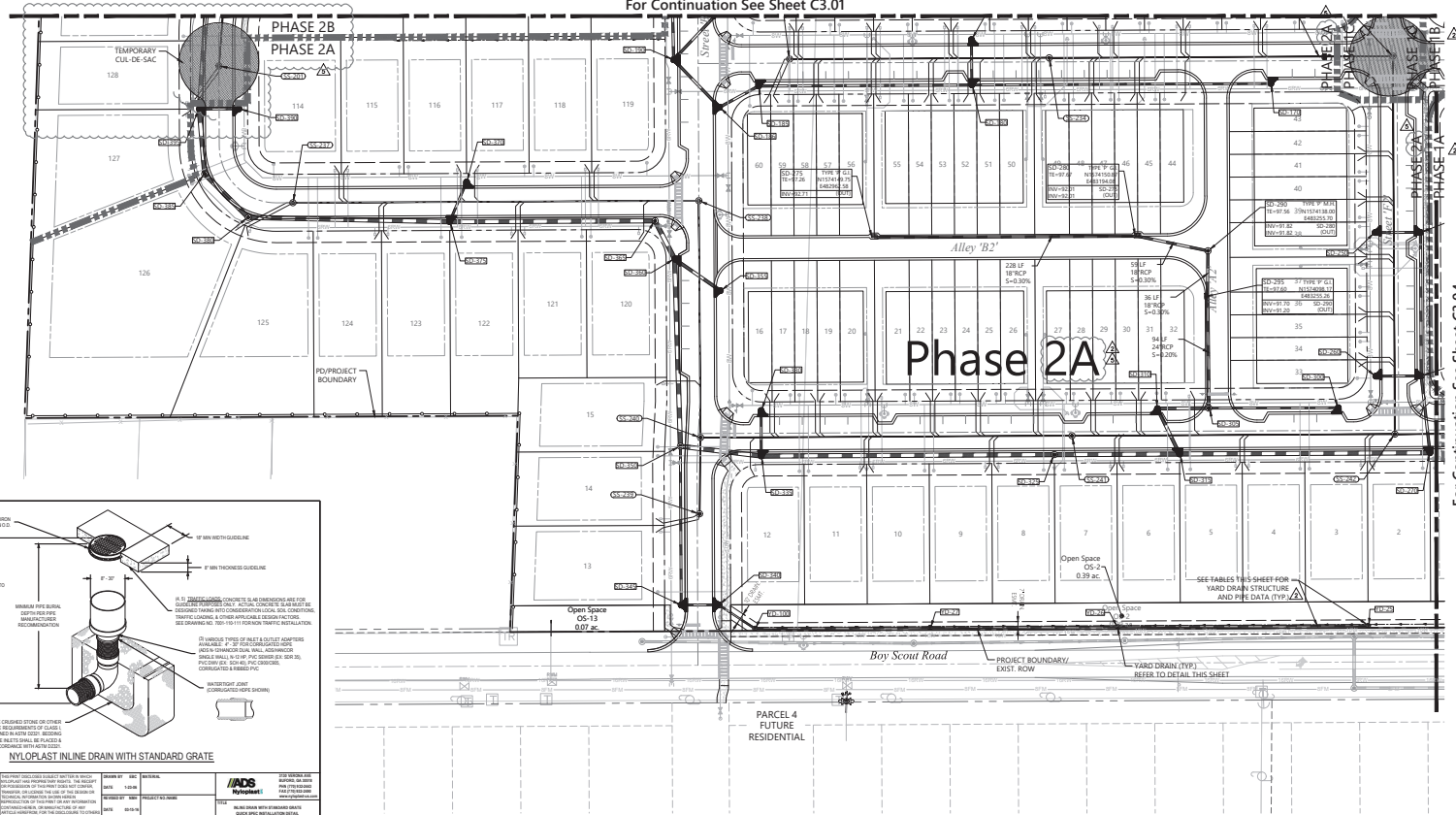
Construction Site Feb. 25, 2022

Plan  
Vertical Datum NAVD 1988

## Drainage & Wastewater Plan



For Continuation See Sheet C3.01



For Continuation See Sheet C3.04

**vhb**

225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932

**Key Map**

**LEGEND**

- PROPERTY BOUNDARY
- PHASE LINE
- PRESERVED WETLAND
- UPLAND BUFFER
- PROPOSED STORM DRAIN, CURB INLET, MANHOLE
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED FORCEMAIN

**NOTES:**

- ALL SANITARY SEWER MAIN TO BE 8" UNLESS OTHERWISE NOTED
- UTILITY EASEMENTS SHOWN ADJACENT TO ROW TO BE 10' UNLESS OTHERWISE NOTED.

0 25 50 100 Feet

## The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revisions               | 11/11/2022 |        |
| 3   | Submittal to SWMWD             | 10/19/2023 |        |
| 4   | SWMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

Designed by: DMK  
Checked by: JBH  
Date: Feb. 25, 2022

Construction Site Plan  
Vertical Datum NAVD 1988

## Drainage & Wastewater Plan

Sheet Number: **C3.03**

Job: **NO. 59469**

State of: **FLORIDA**

Professional Engineer: **John B. Frowell, P.E.**

Date: **Jan. 17, 2024**

Project Number: **63534.03**

### Storm Sewer Structure Schedule

| Number | Type | Top   | Height | Northing   | Easting   |
|--------|------|-------|--------|------------|-----------|
| SD-106 | DMH  | 96.31 | 16.41  | 1573794.08 | 484860.25 |
| SD-10  | DMH  | 96.90 | 4.50   | 1573111.66 | 483380.55 |
| SD-11  | DMH  | 97.00 | 4.50   | 1573110.88 | 483320.55 |
| SD-12  | DMH  | 97.00 | 4.50   | 1573110.52 | 483260.55 |
| SD-13  | DMH  | 96.00 | 4.50   | 1573098.34 | 483200.55 |
| SD-14  | DMH  | 95.20 | 4.50   | 1573098.57 | 483140.56 |
| SD-15  | DMH  | 94.30 | 4.50   | 1573097.80 | 483080.56 |
| SD-16  | DMH  | 93.30 | 4.50   | 1573097.03 | 483020.56 |
| SD-17  | DMH  | 93.30 | 4.50   | 1573095.18 | 482940.54 |
| SD-18  | DMH  | 91.10 | 4.50   | 1573093.31 | 483095.49 |
| SD-19  | DMH  | 90.80 | 4.50   | 1573091.38 | 483195.49 |
| SD-20  | DMH  | 89.45 | 5.91   | 1573081.32 | 484080.48 |
| SD-21  | DMH  | 88.80 | 6.91   | 1573081.36 | 484245.48 |
| SD-21A | DMH  | 84.80 | 4.50   | 1573083.51 | 484417.49 |
| SD-21B | DMH  | 85.80 | 5.61   | 1573081.42 | 484415.24 |
| SD-22  | DMH  | 82.10 | 8.10   | 1573084.52 | 484712.68 |
| SD-23  | DMH  | 91.30 | 4.50   | 1573088.66 | 483396.49 |
| SD-26  | DMH  | 91.30 | 5.34   | 1573087.78 | 483176.49 |
| SD-27  | DMH  | 94.10 | 8.77   | 1573086.98 | 483011.50 |
| SD-28  | DMH  | 96.05 | 4.50   | 1574077.58 | 483338.70 |
| SD-30  | DMH  | 97.07 | 4.50   | 1574077.05 | 483228.70 |
| SD-31  | DMH  | 96.10 | 4.50   | 1574076.51 | 483178.70 |
| SD-32  | DMH  | 94.14 | 7.60   | 1574075.71 | 483093.70 |
| SD-33  | DMH  | 97.30 | 4.75   | 1574076.52 | 483163.69 |
| SD-34  | DMH  | 96.29 | 5.02   | 1574076.46 | 483123.69 |

### Storm Sewer Structure Schedule

| Number | Type | Top   | Height | Northing   | Easting   |
|--------|------|-------|--------|------------|-----------|
| SD-35  | DMH  | 94.70 | 7.50   | 1574077.99 | 483633.68 |
| SD-36  | DMH  | 91.63 | 4.50   | 1574082.11 | 484059.75 |
| SD-37  | DMH  | 91.35 | 4.54   | 1574071.05 | 484081.39 |
| SD-38  | DMH  | 91.04 | 4.72   | 1574047.07 | 484116.78 |
| SD-39  | DMH  | 91.86 | 6.10   | 1574045.80 | 484155.53 |
| SD-40  | DMH  | 91.53 | 6.53   | 1574048.44 | 484226.53 |
| SD-41  | DMH  | 89.30 | 4.50   | 1575112.44 | 483440.54 |
| SD-42  | DMH  | 89.20 | 5.20   | 1575113.21 | 483350.54 |
| SD-43  | DMH  | 88.20 | 5.70   | 1575113.98 | 483260.54 |
| SD-44  | DMH  | 86.40 | 5.00   | 1575114.78 | 483200.53 |
| SD-45  | DMH  | 85.40 | 5.15   | 1575115.53 | 483160.53 |
| SD-46  | DMH  | 84.15 | 4.90   | 1575116.30 | 483120.53 |
| SD-47  | DMH  | 83.15 | 4.80   | 1575117.07 | 483080.52 |
| SD-48  | DMH  | 82.25 | 4.80   | 1575117.85 | 483040.52 |
| SD-49  | DMH  | 81.55 | 4.80   | 1575118.62 | 483000.52 |
| SD-50  | DMH  | 80.55 | 5.10   | 1575118.39 | 482960.51 |
| SD-51  | DMH  | 79.35 | 4.75   | 1575120.16 | 482920.51 |
| SD-52  | DMH  | 78.50 | 4.50   | 1575120.94 | 482880.51 |
| SD-53  | DMH  | 78.39 | 4.96   | 1575021.87 | 484168.51 |
| SD-61  | DMH  | 85.25 | 4.50   | 1575083.73 | 484722.98 |
| SD-62  | DMH  | 85.00 | 5.85   | 1574020.50 | 484742.66 |
| SD-63  | DMH  | 82.12 | 7.03   | 1574034.95 | 484780.75 |
| SD-65  | DMH  | 90.80 | 4.50   | 1574037.01 | 484933.20 |
| SD-66  | DMH  | 90.71 | 4.60   | 1574087.01 | 484934.88 |
| SD-100 | DMH  | 95.60 | 10.85  | 1573906.23 | 482857.59 |

### Storm Sewer Pipe Schedule

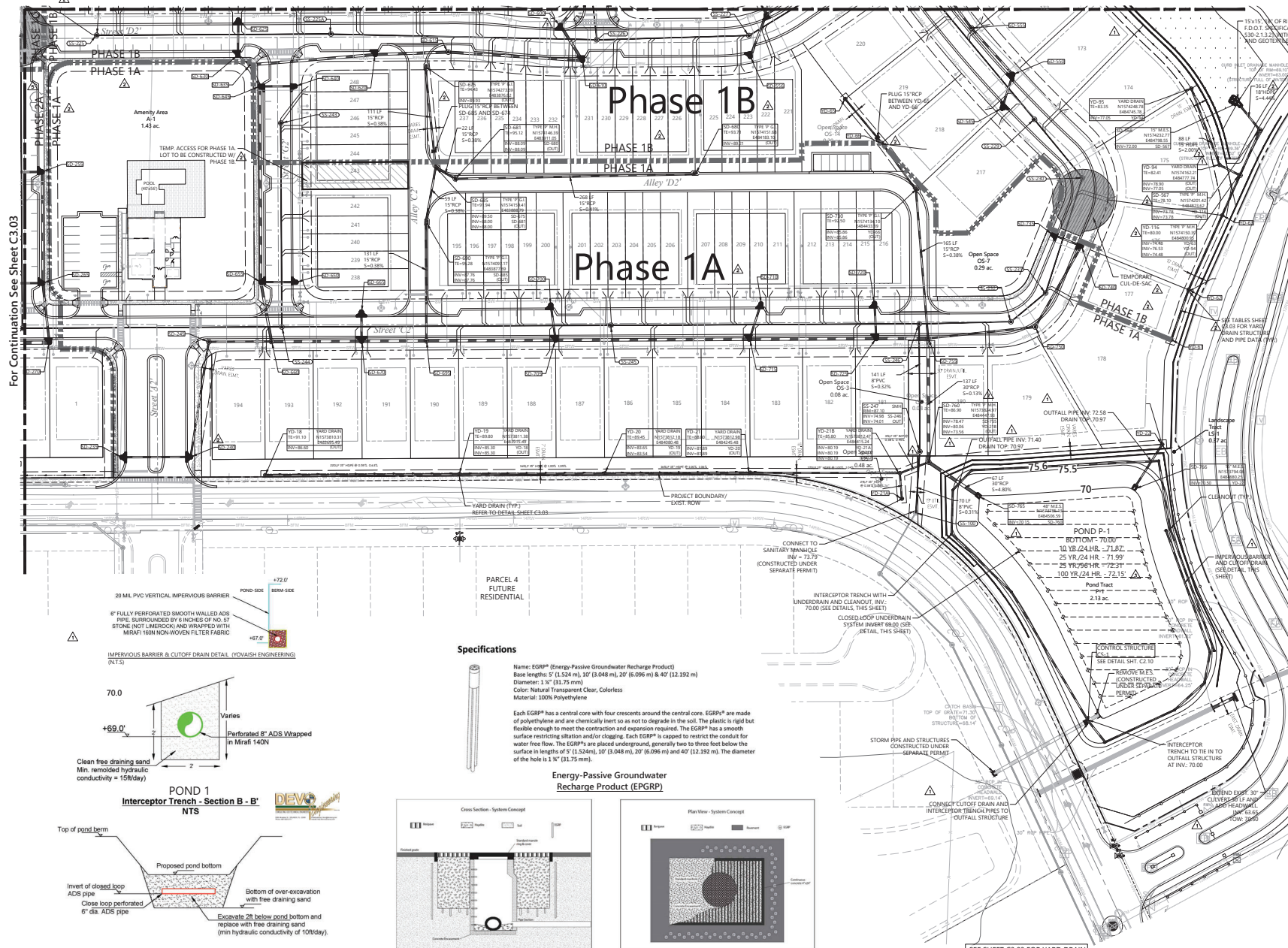
| Start Str. | End Str. | Size | Material | Length  | Slope | Start Inv. | End Inv. |
|------------|----------|------|----------|---------|-------|------------|----------|
| SD-10      | SD-11    | 15   | HDPPE    | 60.00   | 1.67% | 94.46      | 92.96    |
| SD-11      | SD-12    | 15   | HDPPE    | 60.00   | 1.50% | 93.40      | 92.50    |
| SD-12      | SD-13    | 15   | HDPPE    | 60.00   | 1.67% | 92.50      | 91.50    |
| SD-13      | SD-14    | 15   | HDPPE    | 60.00   | 1.33% | 91.50      | 90.70    |
| SD-14      | SD-15    | 15   | HDPPE    | 60.00   | 1.50% | 90.70      | 79.80    |
| SD-15      | SD-16    | 15   | HDPPE    | 60.00   | 1.67% | 79.80      | 79.80    |
| SD-16      | SD-17    | 15   | HDPPE    | 71.527  | 0.42% | 78.80      | 78.50    |
| SD-17      | SD-18    | 18   | RCP      | 61.205  | 0.50% | 78.50      | 78.19    |
| SD-18      | SD-19    | 15   | HDPPE    | 220.000 | 0.50% | 86.60      | 85.20    |
| SD-19      | SD-20    | 15   | HDPPE    | 160.000 | 1.00% | 85.30      | 83.65    |
| SD-20      | SD-21    | 15   | HDPPE    | 160.000 | 1.00% | 83.54      | 81.89    |
| SD-21      | SD-21B   | 15   | HDPPE    | 168.761 | 1.00% | 81.89      | 80.19    |
| SD-21A     | SD-21B   | 15   | HDPPE    | 29.045  | 0.38% | 80.30      | 80.19    |
| SD-21B     | SD-760   | 15   | HDPPE    | 34.992  | 0.38% | 80.19      | 80.06    |
| SD-22      | SD-766   | 18   | HDPPE    | 66.475  | 5.79% | 74.00      | 79.50    |
| SD-25      | SD-26    | 15   | HDPPE    | 250.000 | 0.38% | 86.80      | 85.96    |
| SD-26      | SD-27    | 15   | HDPPE    | 160.000 | 0.38% | 85.96      | 85.33    |
| SD-27      | SD-28    | 15   | HDPPE    | 110.000 | 0.38% | 85.33      | 84.75    |
| SD-28      | SD-30    | 15   | HDPPE    | 110.000 | 0.88% | 92.57      | 92.57    |
| SD-30      | SD-31    | 15   | HDPPE    | 110.000 | 0.88% | 92.57      | 91.60    |
| SD-31      | SD-32    | 15   | HDPPE    | 165.000 | 1.19% | 91.60      | 89.64    |
| SD-32      | SD-130   | 15   | HDPPE    | 124.448 | 1.00% | 86.54      | 85.89    |
| SD-33      | SD-34    | 15   | HDPPE    | 110.000 | 1.00% | 92.55      | 91.45    |
| SD-34      | SD-35    | 15   | HDPPE    | 110.000 | 1.20% | 91.27      | 89.95    |
| SD-35      | SD-475   | 15   | HDPPE    | 69.000  | 0.38% | 87.20      | 86.80    |

### Storm Sewer Pipe Schedule

| Start Str. | End Str. | Size | Material | Length  | Slope | Start Inv. | End Inv. |
|------------|----------|------|----------|---------|-------|------------|----------|
| SD-36      | SD-37    | 15   | HDPPE    | 60.000  | 0.38% | 87.13      | 86.81    |
| SD-37      | SD-38    | 15   | HDPPE    | 109.839 | 0.45% | 86.81      | 86.32    |
| SD-38      | SD-39    | 15   | HDPPE    | 109.839 | 0.50% | 86.32      | 85.77    |
| SD-39      | SD-40    | 15   | HDPPE    | 152.969 | 0.50% | 85.76      | 84.68    |
| SD-40      | SD-557   | 15   | HDPPE    | 84.364  | 0.38% | 85.00      | 84.68    |
| SD-41      | SD-42    | 15   | HDPPE    | 60.000  | 0.50% | 84.68      | 84.50    |
| SD-42      | SD-43    | 15   | HDPPE    | 60.000  | 0.83% | 84.00      | 83.50    |
| SD-43      | SD-44    | 15   | HDPPE    | 60.000  | 0.50% | 83.50      | 81.90    |
| SD-44      | SD-45    | 15   | HDPPE    | 60.000  | 0.83% | 81.90      | 80.90    |
| SD-45      | SD-46    | 15   | HDPPE    | 60.000  | 1.00% | 80.25      | 79.65    |
| SD-46      | SD-47    | 15   | HDPPE    | 60.000  | 1.00% | 79.25      | 78.65    |
| SD-47      | SD-48    | 18   | HDPPE    | 60.000  | 1.00% | 78.35      | 77.75    |
| SD-48      | SD-49    | 18   | HDPPE    | 60.000  | 1.00% | 77.65      | 77.06    |
| SD-49      | SD-50    | 18   | HDPPE    | 60.000  | 1.00% | 76.65      | 76.06    |
| SD-50      | SD-51    | 18   | HDPPE    | 60.000  | 1.00% | 75.45      | 74.86    |
| SD-51      | SD-52    | 18   | HDPPE    | 60.000  | 1.00% | 74.60      | 74.00    |
| SD-52      | SD-53    | 18   | HDPPE    | 60.000  | 0.87% | 74.00      | 73.41    |
| SD-53      | SD-560   | 18   | HDPPE    | 17.824  | 0.25% | 73.41      | 73.06    |
| SD-61      | SD-62    | 18   | HDPPE    | 60.000  | 1.00% | 80.75      | 80.15    |
| SD-62      | SD-63    | 18   | HDPPE    | 52.636  | 1.50% | 79.15      | 77.76    |
| SD-63      | SD-116   | 18   | HDPPE    | 49.752  | 1.24% | 75.09      | 74.48    |
| SD-65      | SD-66    | 15   | HDPPE    | 65.096  | 0.38% | 86.39      | 86.14    |
| SD-66      | SD-730   | 15   | HDPPE    | 65.445  | 0.38% | 86.11      | 85.86    |
| SD-100     | SD-340   | 15   | HDPPE    | 37.931  | 0.38% | 84.75      | 84.61    |



For Continuation See Sheet C3.02



30 MIL PVC VERTICAL IMPERVIOUS BARRIER  
POND SIDE  
BERM SIDE  
6" FULLY PERFORATED SMOOTH WALLED ADS PIPE SURROUNDED BY 6 INCHES OF NO. 57 STONE (NOT LIMEROCK) AND WRAPPED WITH MIRAFLEX 160N NON-WOVEN FILTER FABRIC  
IMPERVIOUS BARRIER & CUTOFF DRAIN DETAIL (NOVAISH ENGINEERING)  
(N.T.S.)

70.0  
+69.0'  
Clear free draining sand  
Min. remolded hydraulic conductivity = 15(1/day)

POND 1  
Interceptor Trench - Section B - B'  
N.T.S.

Top of pond berm  
Proposed pond bottom  
Invert of closed loop ADS pipe  
Close loop perforated 6" dia. ADS pipe  
Excavate 2ft below pond bottom and replace with free draining sand (min hydraulic conductivity of 10(1/day))  
Bottom of over-excavation with free draining sand  
Excavate 2ft below pond bottom and replace with free draining sand (min hydraulic conductivity of 10(1/day))

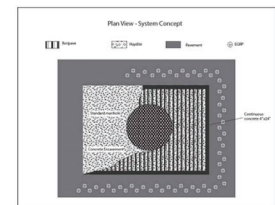
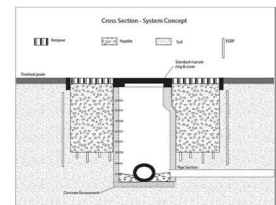
Typical Over-Excavated Pond Bottom with Closed Loop Underdrain  
(Ponds 1 and 3)  
N.T.S.

### Specifications



Name: EGRP® (Energy Passive Groundwater Recharge Product)  
Base lengths: 5' (1.524 m), 10' (3.048 m), 20' (6.096 m) & 40' (12.192 m)  
Diameter: 1 1/2" (31.75 mm)  
Color: Natural Transparent Clear, Colorless  
Material: 100% Polyethylene  
Each EGRP® has a central core with four crescents around the central core. EGRP®s are made of polyethylene and are chemically inert so as not to degrade in the soil. The plastic is rigid but flexible enough to meet the construction and expansion required. The EGRP® has a smooth surface restricting siltation and/or clogging. Each EGRP® is capped to restrict the conduit for water free flow. The EGRP®s are placed underground, generally two to three feet below the surface in lengths of 5' (1.524m), 10' (3.048 m), 20' (6.096 m) and 40' (12.192 m). The diameter of the hole is 1 1/2" (31.75 mm).

Energy-Passive Groundwater Recharge Product (EGRP®)

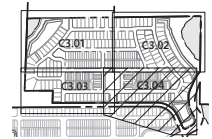


ENERGY-PASSIVE GROUNDWATER RECHARGE PRODUCT DETAILS - TYPICAL CONCEPT

ECT  
Environmental  
Technology  
Inc.

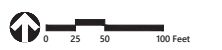


225 E. Robinson Street  
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Certificate of Authorization  
Number FL #3932



### Key Map

- LEGEND**
- PROPERTY BOUNDARY
  - PHASE LINE
  - PRESERVED WETLAND
  - UPLAND BUFFER
  - PROPOSED STORM DRAIN, CURB INLET, MANHOLE
  - PROPOSED SANITARY SEWER & MANHOLE
- NOTES:**
- ALL SANITARY SEWER MAIN TO BE 8" UNLESS OTHERWISE NOTED
  - UTILITY EASEMENTS SHOWN ADJACENT TO ROW TO BE 10' UNLESS OTHERWISE NOTED



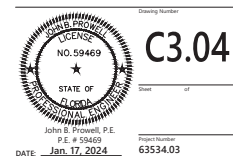
## The Ridge PD Parcel 2

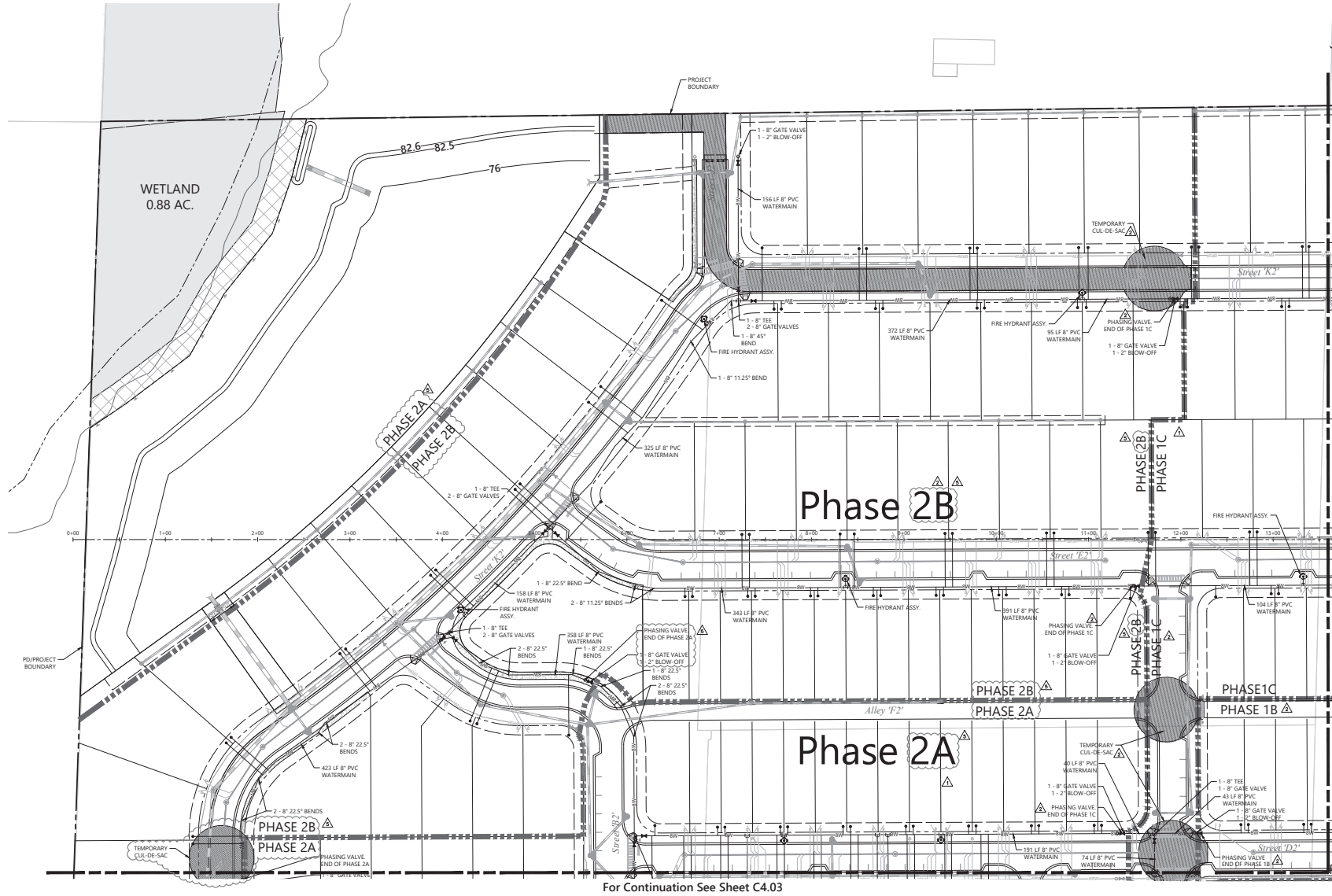
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|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revisions               | 11/11/2022 |        |
| 3   | Submittal to SWMWD             | 10/19/2023 |        |
| 4   | SWMWD Comments                 | 11/20/2023 |        |
| 5   | Phase 2 Sub-Planting Revisions | 05/11/2024 |        |

Designed by: DMK  
Reviewed by: JBR  
Date: Feb. 25, 2022

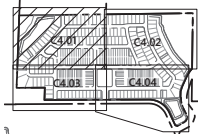
Construction Site  
Plan  
Vertical Datum NAVD 1988

## Drainage & Wastewater Plan



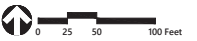


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407.839.4006  
Certificate of Authorization  
Number FL #3932



Key Map

| LEGEND |                                  |
|--------|----------------------------------|
|        | PROJECT BOUNDARY                 |
|        | PHASE LINE                       |
|        | PRESERVED WETLAND                |
|        | UPLAND BUFFER                    |
|        | PROPOSED WATERMAIN & GATE VALVE  |
|        | PROPOSED FIRE HYDRANT ASSEMBLY   |
|        | FIRE DEPARTMENT CONNECTION (FDC) |



## The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                     | Date       | Appr'd |
|-----|-------------------------------|------------|--------|
| 1   | City of Apopka Comments       | 05/11/2022 |        |
| 2   | Client Review                 | 11/11/2022 |        |
| 3   | Submit to SMMWD               | 10/18/2023 |        |
| 4   | SMMWD Comments                | 11/02/2023 |        |
| 5   | Phase 2 Sub-Phasing Revisions | 05/11/2024 |        |

|             |            |
|-------------|------------|
| Designed by | Checked by |
| DMK         | JBH        |

Construction Site Plan

Vertical Datum NAVD 1988

Water Distribution Plan

Drawing Number

C4.01

Date

Jan. 17, 2024

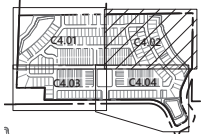
John B. Prosser, P.E.

P.E. # 59469

DATE

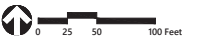
63534.03





Key Map

- LEGEND**
- PROJECT BOUNDARY
  - PHASE LINE
  - PRESERVED WETLAND
  - UPLAND BUFFER
  - PROPOSED WATERMAIN & GATE VALVE
  - PROPOSED FIRE HYDRANT ASSEMBLY
  - FIRE DEPARTMENT CONNECTION



**The Ridge PD  
Parcel 2**

Apopka, Florida

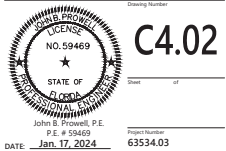
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|-----|-------------------------------|------------|--------|
| 1   | City of Apopka Comments       | 05/11/2022 |        |
| 2   | Client Review                 | 11/11/2022 |        |
| 3   | Submittal to SWMMD            | 10/18/2023 |        |
| 4   | SWMMD Comments                | 11/02/2023 |        |
| 5   | Phase 2 Sub-Phasing Revisions | 05/11/2024 |        |

Designed by: DMK  
Reviewed by: JBH

Construction Site Plan  
Feb. 25, 2022

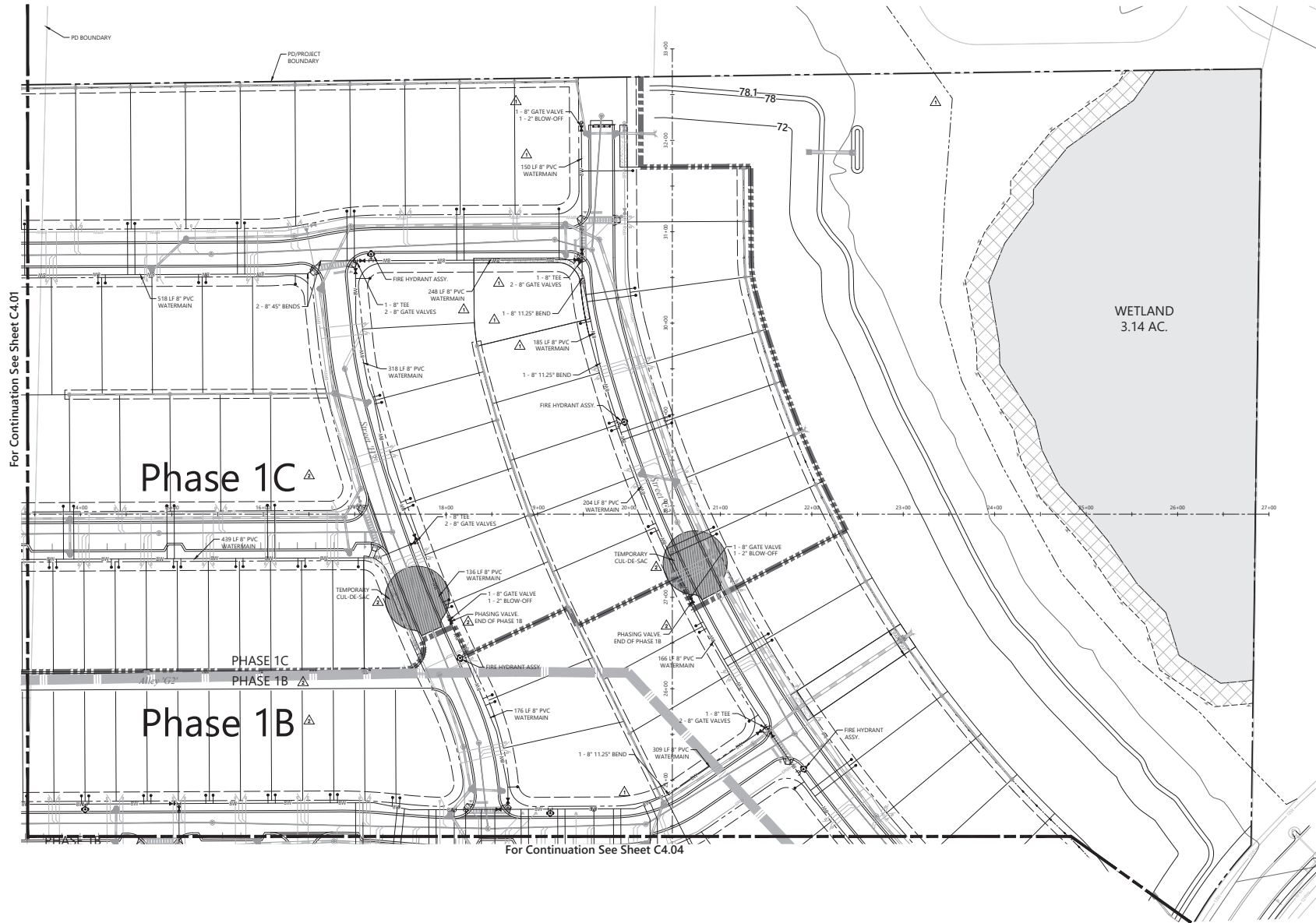
Vertical Datum NAVD 1988

**Water Distribution  
Plan**



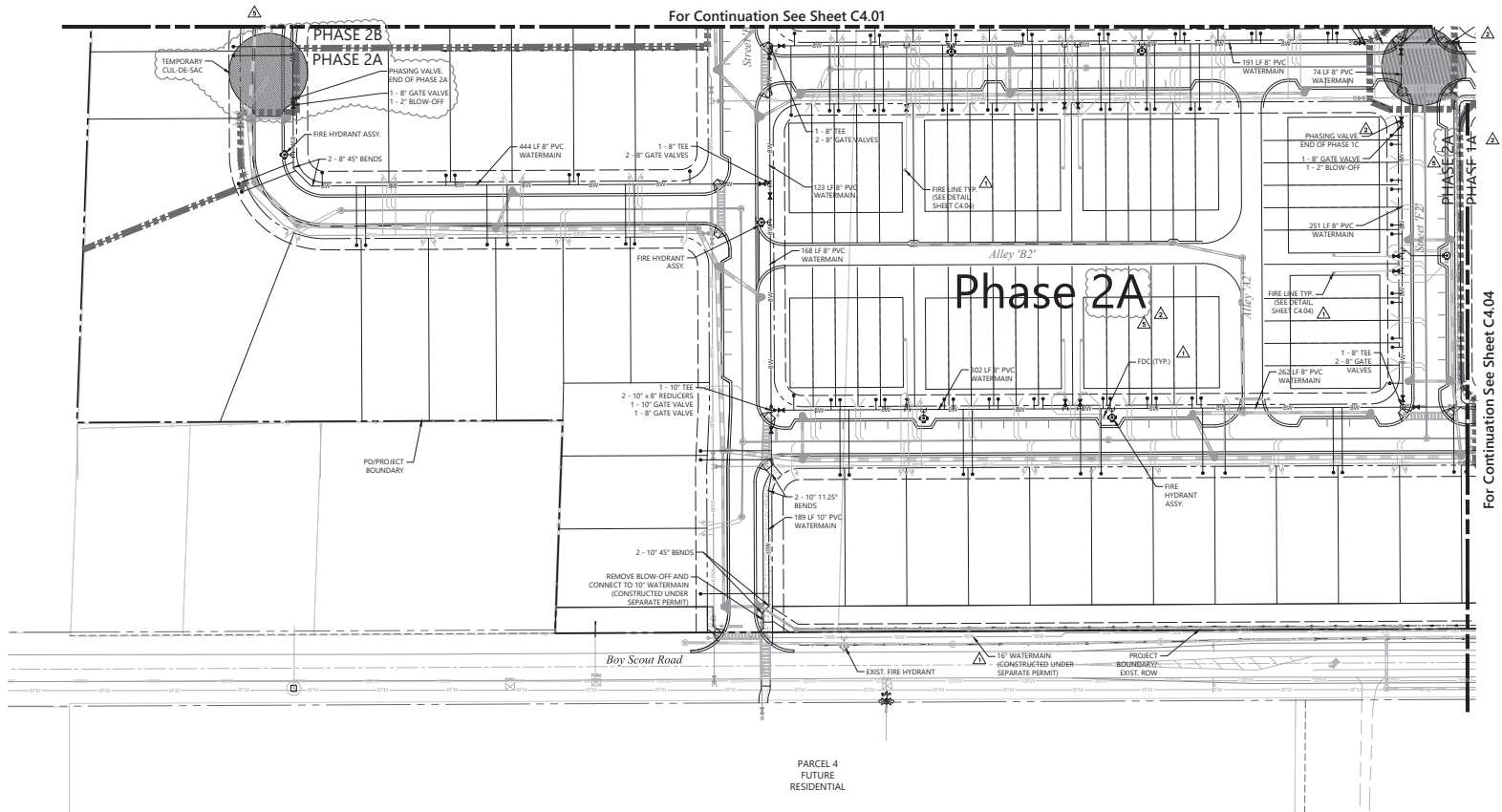
C4.02

DATE: Jan. 17, 2024  
PROJECT NUMBER: 63534.03

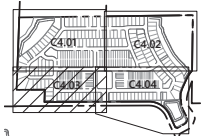


For Continuation See Sheet C4.01

For Continuation See Sheet C4.04



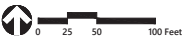
**vhb**  
225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932



Key Map

**LEGEND**

- PROJECT BOUNDARY
- PHASE LINE
- PRESERVED WETLAND
- ULAND BUFFER
- PROPOSED WATERMAIN & GATE VALVE
- PROPOSED FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)



**The Ridge PD  
Parcel 2**

| No. | Revisions                     | Date       | Appr'd |
|-----|-------------------------------|------------|--------|
| 1   | City of Apopka Comments       | 05/11/2022 |        |
| 2   | Client Revision               | 11/11/2022 |        |
| 3   | Submittal to SPMWD            | 10/18/2023 |        |
| 4   | SPMWD Comments                | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planing Revisions | 01/11/2024 |        |

|             |            |
|-------------|------------|
| Designed by | Checked by |
| DMK         | JBH        |
| Drawn by    | Date       |

Construction Site Plan

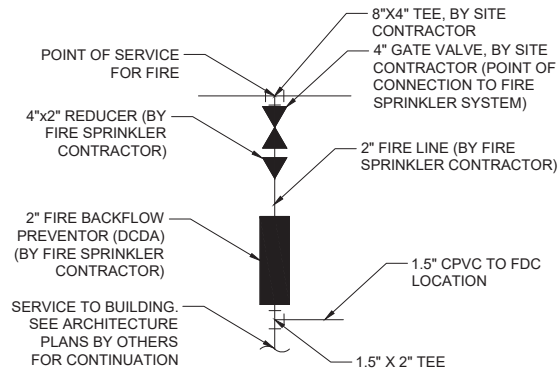
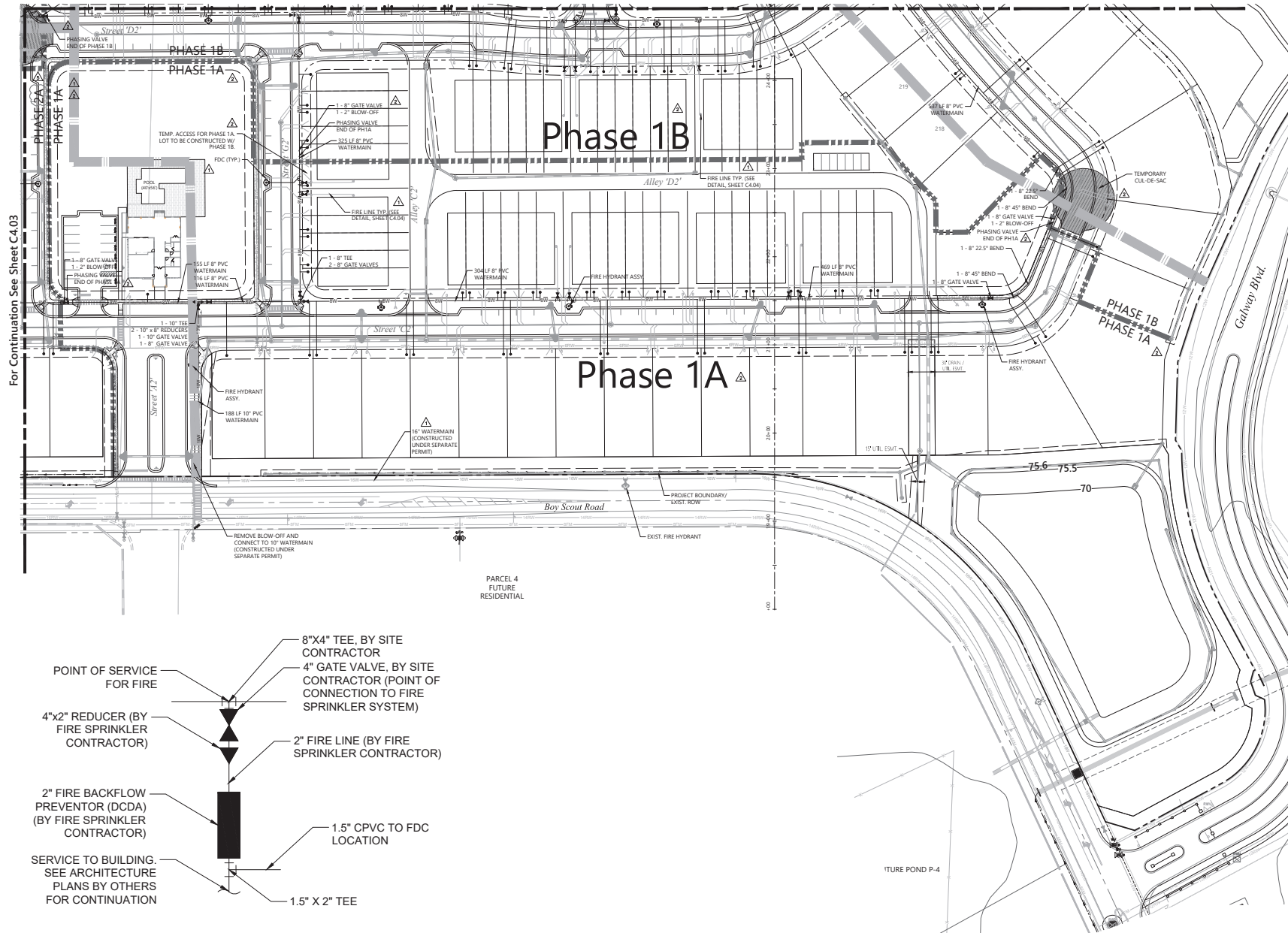
Vertical Datum NAVD 1988

**Water Distribution  
Plan**

Drawing Number: **C4.03**

State of Florida Professional Engineer Seal: NO. 59469, John B. Prosser, P.E., P.E. # 59469, DATE: Jan. 17, 2024, 63534.03

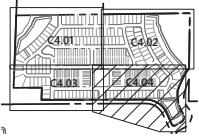
For Continuation See Sheet C4.02



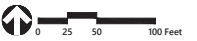
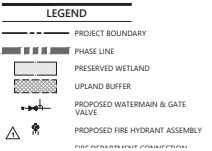
Typical Fire Line Point of Service Detail  
N.T.S.



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Number FL #3932



Key Map



## The Ridge PD Parcel 2

Apopka, Florida

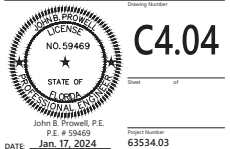
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|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revision                | 11/11/2022 |        |
| 3   | Submit to SFWMD                | 10/18/2023 |        |
| 4   | SFWMD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planting Revisions | 05/11/2024 |        |

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|-------------|-----|------------|-----|
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| Reviewed by |     | Date       |     |

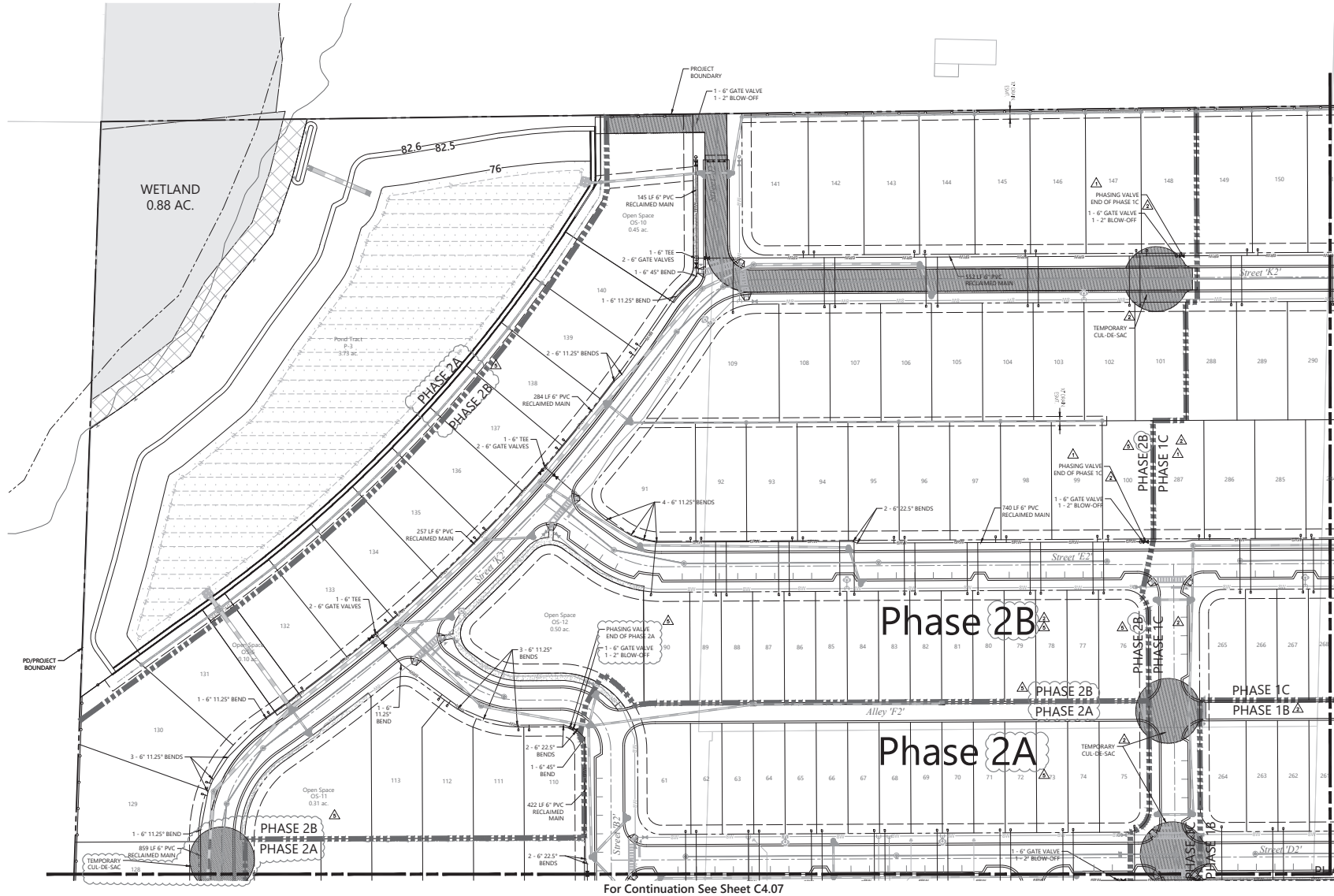
Construction Site Plan Feb. 25, 2022

Vertical Datum NAVD 1988

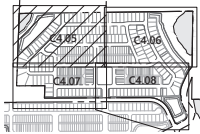
## Water Distribution Plan



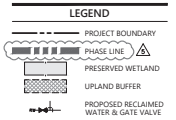




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Key Map



## The Ridge PD Parcel 2

Apopka, Florida

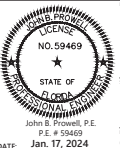
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| 1   | City of Apopka Comments       | 05/11/2022 |        |
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| 4   | SWMWD Comments                | 11/02/2023 |        |
| 5   | Phase 2 Sub-Phasing Revisions | 05/11/2024 |        |

|             |            |
|-------------|------------|
| Designed by | Checked by |
| DMK         | JRH        |

Construction Site Plan  
Feb. 25, 2022

Vertical Datum NAVD 1988

Reclaimed Water  
Distribution Plan



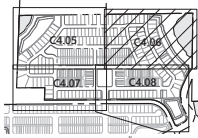
Sheet Number  
**C4.05**

Date  
Jan. 17, 2024

63534.03



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Number FL #3932



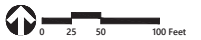
Key Map



N.E.S.

LEGEND

- PROJECT BOUNDARY
- PHASE LINE
- PRESERVED WETLAND
- UPLAND BUFFER
- PROPOSED RECLAIMED WATER & GATE VALVE



The Ridge PD  
Parcel 2

Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Review                  | 11/11/2022 |        |
| 3   | Submit to SWMWD                | 10/18/2023 |        |
| 4   | SWMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

Designed by: DMK Checked by: JBH

Construction Site Plan Date: Feb. 25, 2022

Vertical Datum NAVD 1988

Reclaimed Water  
Distribution Plan

Drawing Number: **C4.06**

NO. 59469

STATE OF FLORIDA

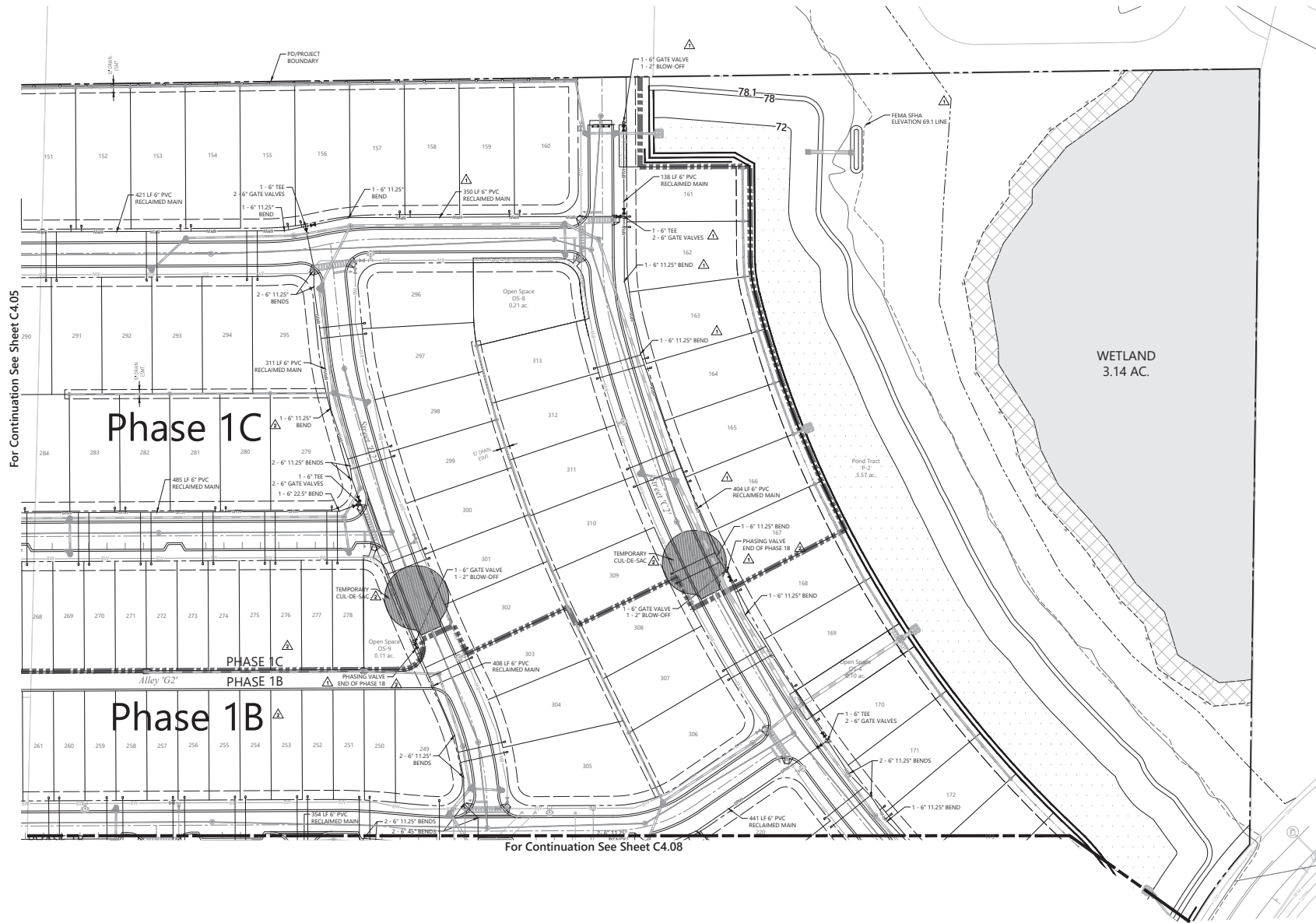
Professional Engineer

John B. Prosser, P.E.

P.E. # 59469

DATE: Jan. 17, 2024

Project Number: 63534.03

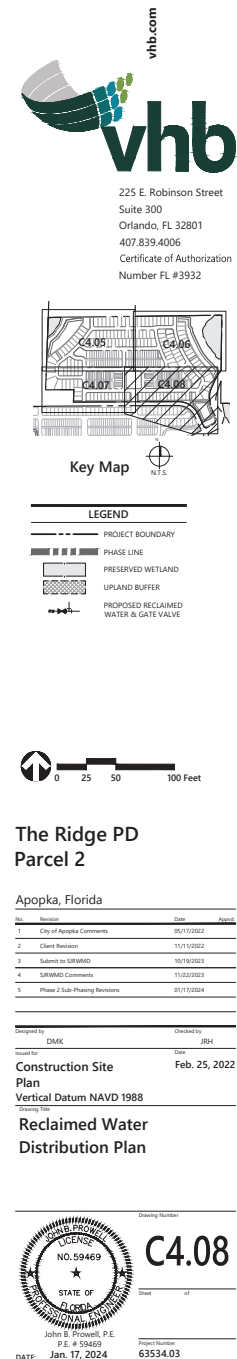


For Continuation See Sheet C4.05

For Continuation See Sheet C4.08





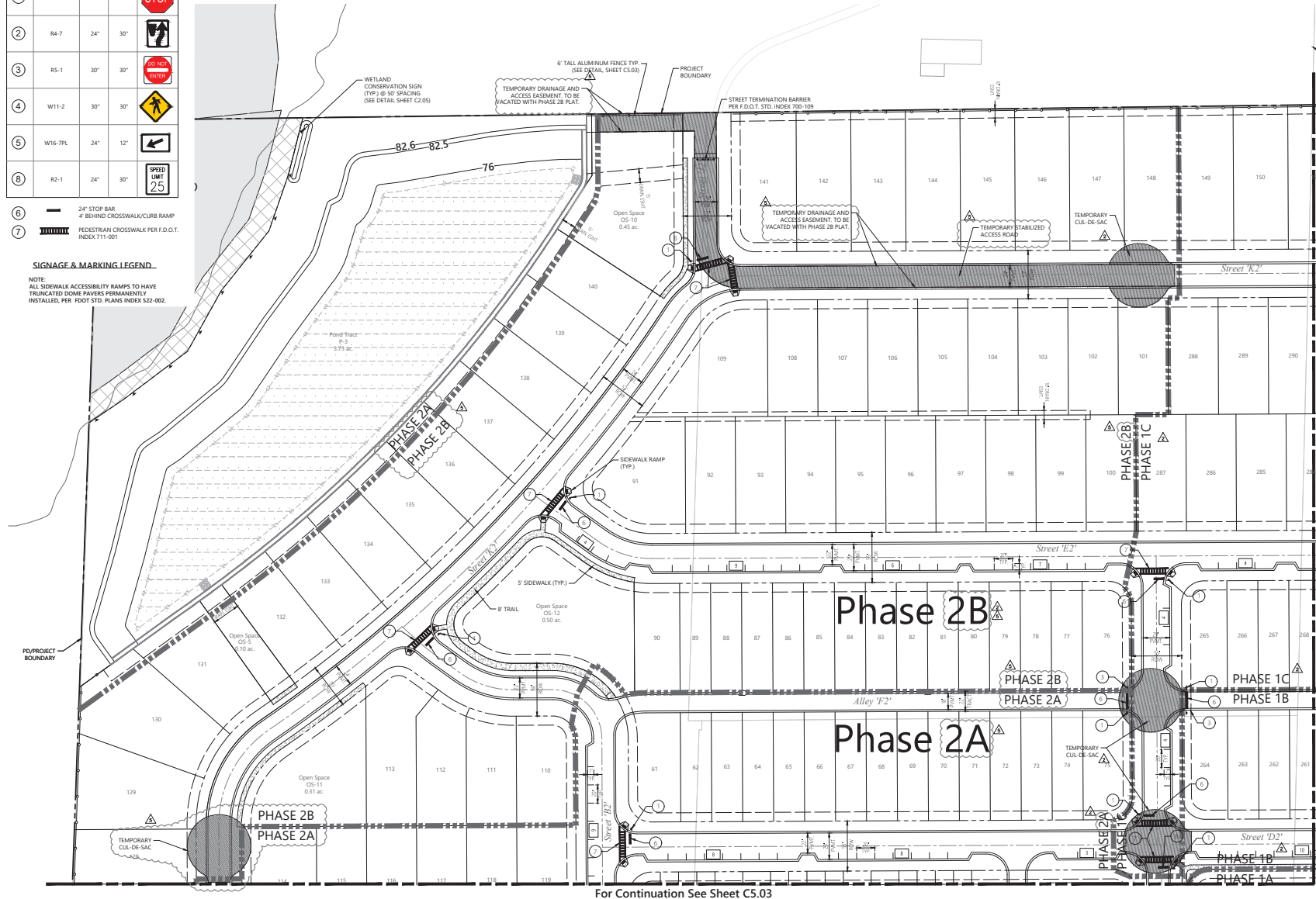


### Sign Summary

| M.U.T.C.D. Number | Specification                                   | Desc.   |
|-------------------|-------------------------------------------------|---------|
|                   | Width                                           | Height  |
| 1                 | R1-1                                            | 30" 30" |
| 2                 | R4-7                                            | 24" 30" |
| 3                 | R5-1                                            | 30" 30" |
| 4                 | W11-2                                           | 30" 30" |
| 5                 | W16-7PL                                         | 24" 12" |
| 6                 | R2-1                                            | 24" 30" |
| 6                 | 24" STOP BAR                                    |         |
| 7                 | 4" BEHIND CROSSWALK/CURB RAMP                   |         |
| 7                 | PEDESTRIAN CROSSWALK PER F.D.O.T. INDEX 711-001 |         |

### SIGNAGE & MARKING LEGEND

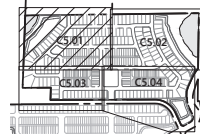
NOTE:  
ALL SIDEWALK ACCESSIBILITY RAMPS TO HAVE TRUNCATED DOME PAVERS PERMANENTLY INSTALLED, PER FOOT STD. PLANS INDEX 522-002.



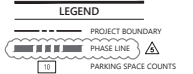
For Continuation See Sheet C5.03



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Number FL #3932



Key Map



### The Ridge PD Parcel 2

Apopka, Florida

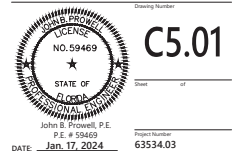
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| 4   | SWMWD Comments                 | 11/02/2023 |         |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |         |

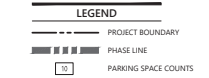
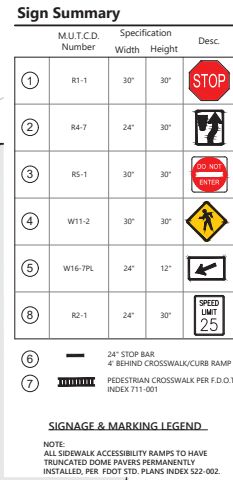
Designed by: DMK  
Reviewed by: JBR

Construction Site Plan  
Date: Feb. 25, 2022

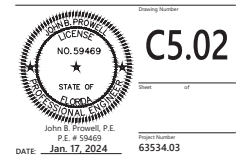
Vertical Datum NAVD 1988

Layout & Materials Plan

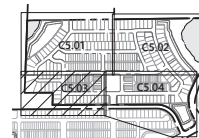
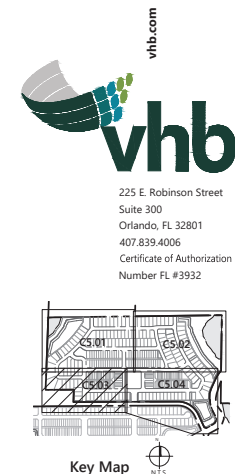




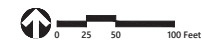
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|--------------------------|---------------|
| Designed by              | Checked by    |
| DMK                      | JRH           |
| Issued for               | Date          |
| Construction Site Plan   | Feb. 25, 2022 |
| Vertical Datum NAVD 1988 |               |
| Drawing Title            |               |
| Layout & Materials Plan  |               |







## Key Map



Apopka, Florida

| No. | Revision                      | Date       |
|-----|-------------------------------|------------|
| 1   | City of Apopka Comments       | 05/17/2022 |
| 2   | Client Revision               | 11/11/2022 |
| 3   | Submit to SJRWMD              | 10/19/2023 |
| 4   | SJRWMD Comments               | 11/22/2023 |
| 5   | Phase 2 Sub-Phasing Revisions | 01/17/2024 |

|             |            |
|-------------|------------|
| Designed by | Checked by |
| DMK         | JRH        |
| Issued for  | Date       |

Construction Site  
Plan  
Vertical Datum NAVD 1988

## Layout & Materials Plan

**PANEL BRACKET**  
Removable support bracket that secures assembly to wall for increased strength

**REINFORCED POLE**  
Aluminum extrusion with internal reinforcement against warping and bending as well as other horizontally applied forces (only on 2" slatation poles)

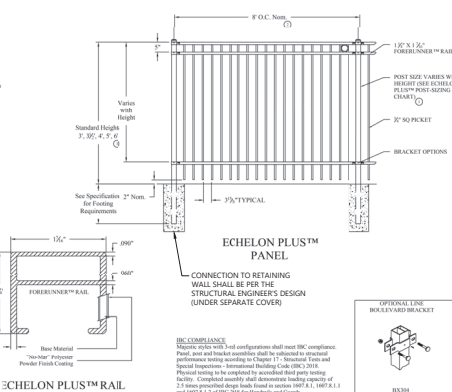
**FIN CLUTCH**  
Used to place with slat to provide additional support and reinforcement to the slat, preventing the slat from warping or bending

**EXTERIOR FINNINGS—AL**  
(Optional) Aluminum extrusion with high strength architectural shape

**INTERIOR GUIDE CHANNEL**  
Channel from lower tiers of slats to support slats and allow them to hang and slide

**INTERNAL RETAINING ROD**  
Removable pole that provides support for most of retaining, high angle has ability and elimination of multiple external fasteners

0.110"



PARCEL 4  
FUTURE  
RESIDENTIAL

### Sign Summary

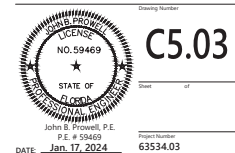
|   | M.U.T.C.D.<br>Number                                                                                                                | Specification<br>Width | Height | Desc.                                                                                 |
|---|-------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------|---------------------------------------------------------------------------------------|
| ① | R1-1                                                                                                                                | 30"                    | 30"    |  |
| ② | R4-7                                                                                                                                | 24"                    | 30"    |  |
| ③ | RS-1                                                                                                                                | 30"                    | 30"    |  |
| ④ | W11-2                                                                                                                               | 30"                    | 30"    |  |
| ⑤ | W16-7PL                                                                                                                             | 24"                    | 12"    |  |
| ⑧ | R2-1                                                                                                                                | 24"                    | 30"    |  |
| ⑥ |  24" STOP BAR<br>4" BEHIND CROSSWALK/CURB RAMP |                        |        |                                                                                       |
| ⑦ |  PEDESTRIAN CROSSWALK PER D.O.T. INDEX P11-01  |                        |        |                                                                                       |

### SIGNAGE & MARKING LEGEND

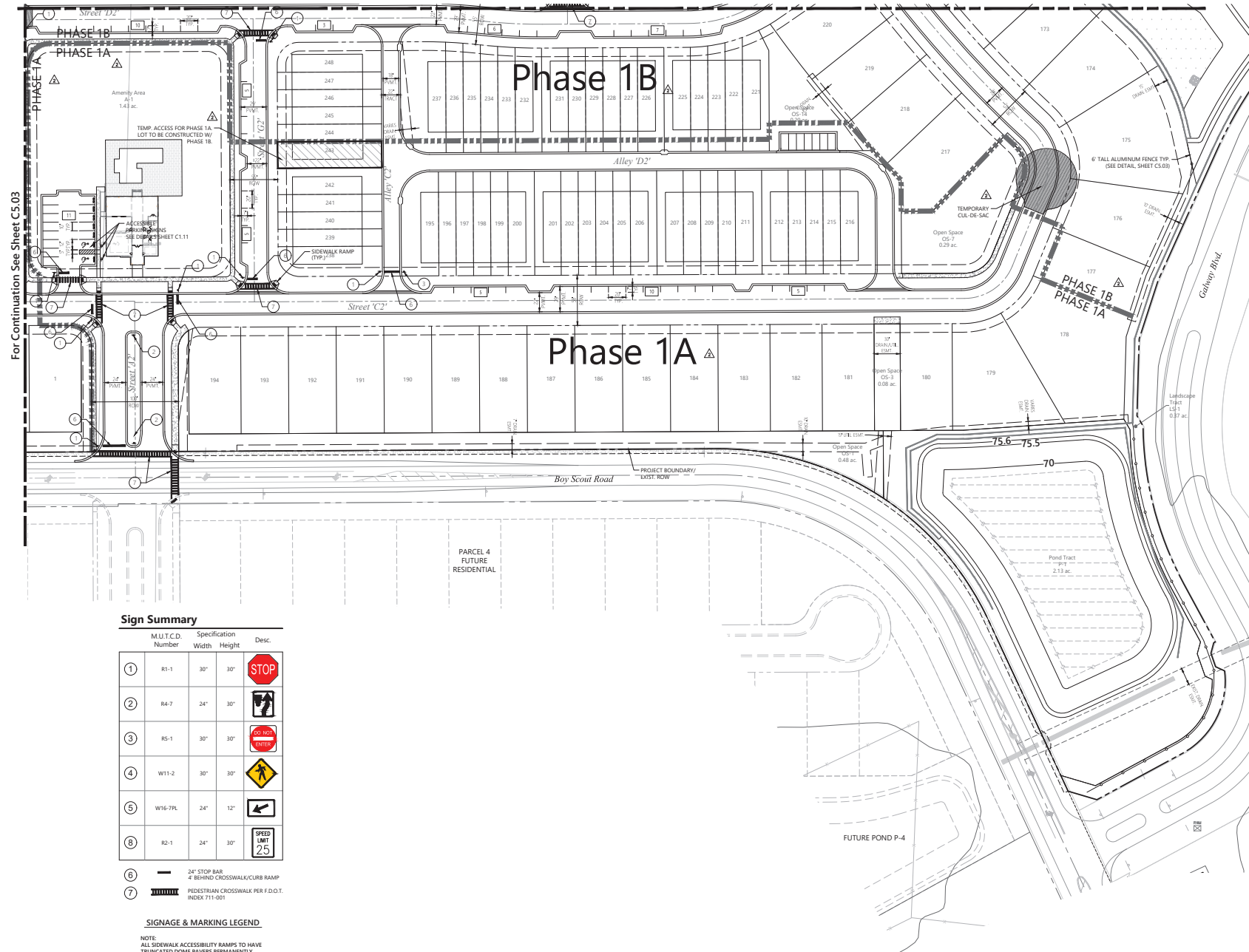
NOTE:  
ALL SIDEWALK ACCESSIBILITY RAMPS TO HAVE  
TRUNCATED DOME PAVERS PERMANENTLY  
INSTALLED, PER FDOT STD. PLANS INDEX 522-002.

### Perimeter and Fall Protection Fence Detail

N.T.S.

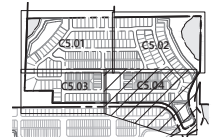


For Continuation See Sheet C5.02



**vhb**

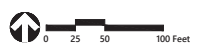
225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932



**Key Map**

**LEGEND**

- PROJECT BOUNDARY
- PHASE LINE
- PARKING SPACE COUNTS



### The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                      | Date       | Appr'd. |
|-----|--------------------------------|------------|---------|
| 1   | City of Apopka Comments        | 05/11/2022 |         |
| 2   | Client Review                  | 11/11/2022 |         |
| 3   | Submitted to SMMWD             | 10/18/2023 |         |
| 4   | SMMWD Comments                 | 11/02/2023 |         |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |         |

Designed by: DMK  
Checked by: JBH  
Date: Feb. 25, 2022

**Construction Site Plan**  
Vertical Datum NAVD 1988  
Layout & Materials Plan

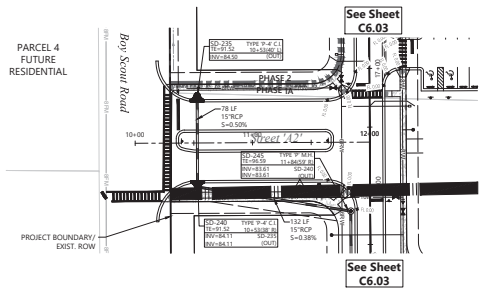
**C5.04**

State of Florida  
Professional Engineer  
John B. Prosser, P.E.  
P.E. # 59469  
DATE: Jan. 17, 2024  
Drawing Number: 63534.03

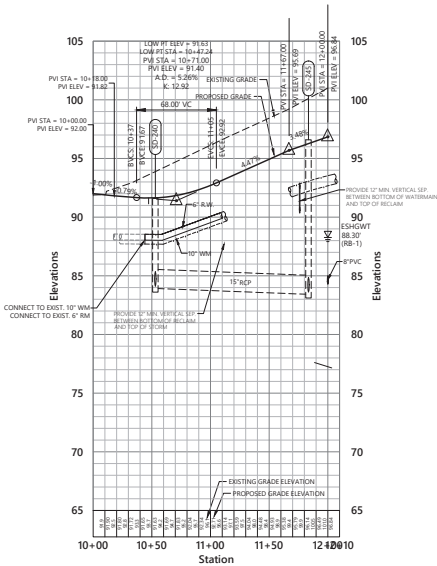


vhb.com

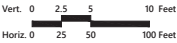
225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932



Street 'A2'



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5. FOR EIGHT ELEVATION DETERMINATION, REFER TO YORUSH ENGINEERING SERVICES, LLC REPORT (DATED FEBRUARY 10, 2022). "RB" INDICATOR REFERS TO BORING ID.



The Ridge PD  
Parcel 2

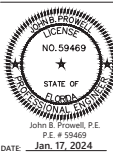
Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
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| 4   | SPM&D Comments                 | 11/02/2023 |        |
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Designed by: DMK  
Checked by: JBH  
Date: Feb. 25, 2022

Construction Site Plan  
Vertical Datum NAVD 1988

Plan & Profile  
Street 'A2'

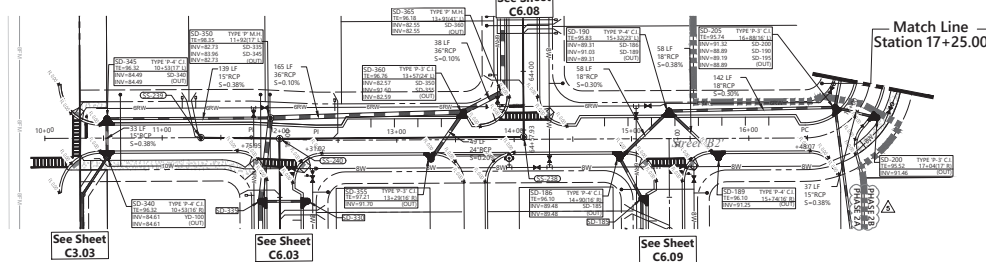


C6.01

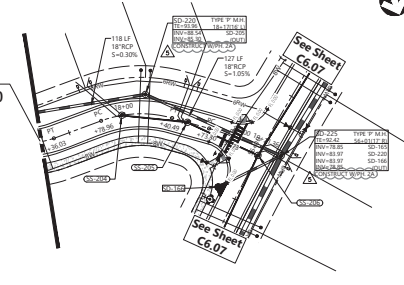
DATE: Jan. 17, 2024

PROJECT NO. 63534.03

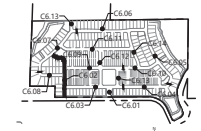




Match Line  
Station 17+25.00

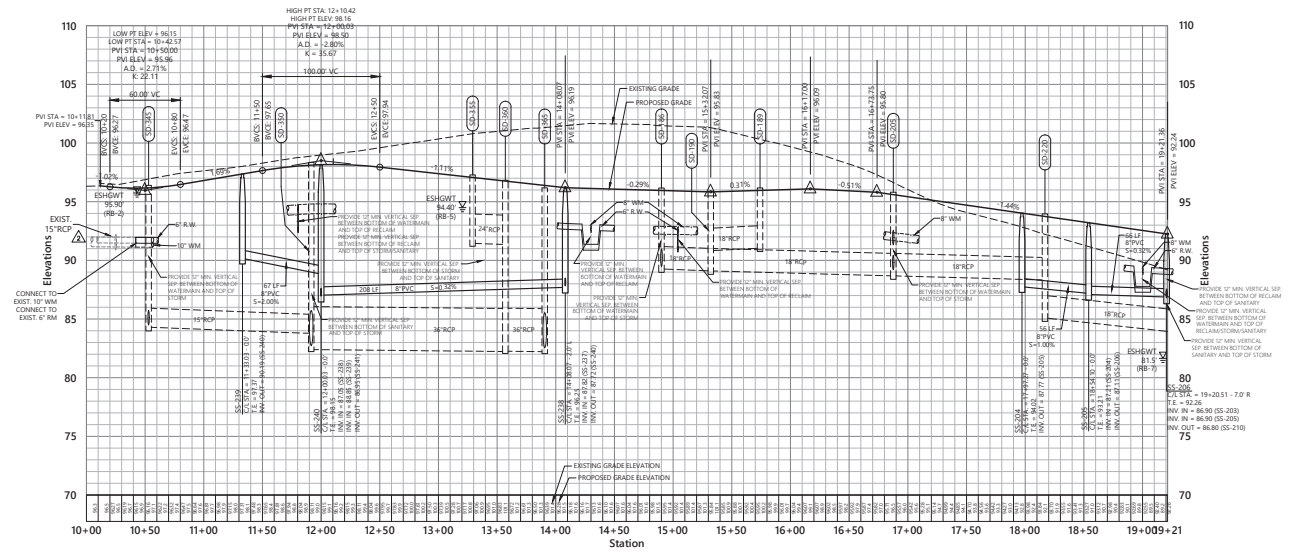


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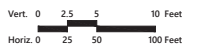


Key Map  
N.T.S.

## Street 'B2'



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## The Ridge PD Parcel 2

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revisions               | 11/11/2022 |        |
| 3   | Submittal to SMMWD             | 10/18/2023 |        |
| 4   | SMMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

Designed by: DMK  
Reviewed by: JBR  
Date: Feb. 25, 2022

Construction Site Plan  
Vertical Datum NAVD 1988

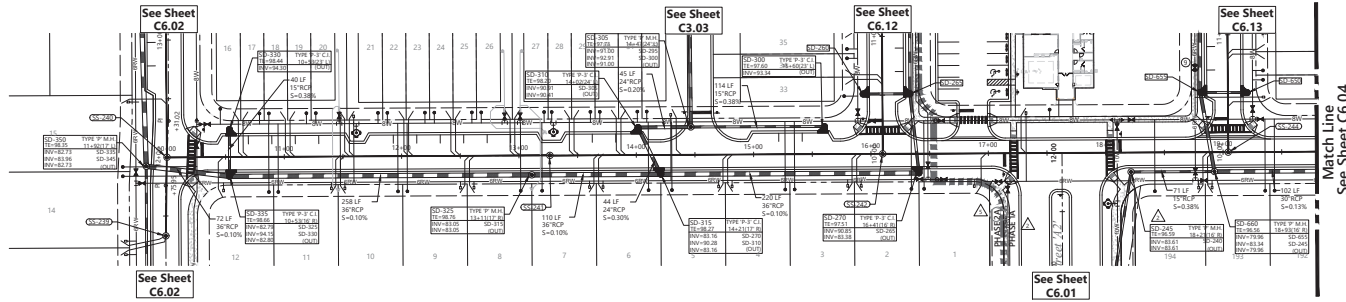
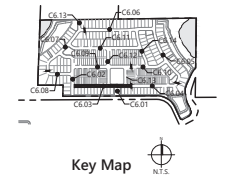
## Plan & Profile Street 'B2'

John B. Prosser, P.E.  
P.E. # 59469  
DATE: Jan. 17, 2024

Drawing Number: **C6.02**  
Sheet: 1 of 1  
Project Number: 63534.03

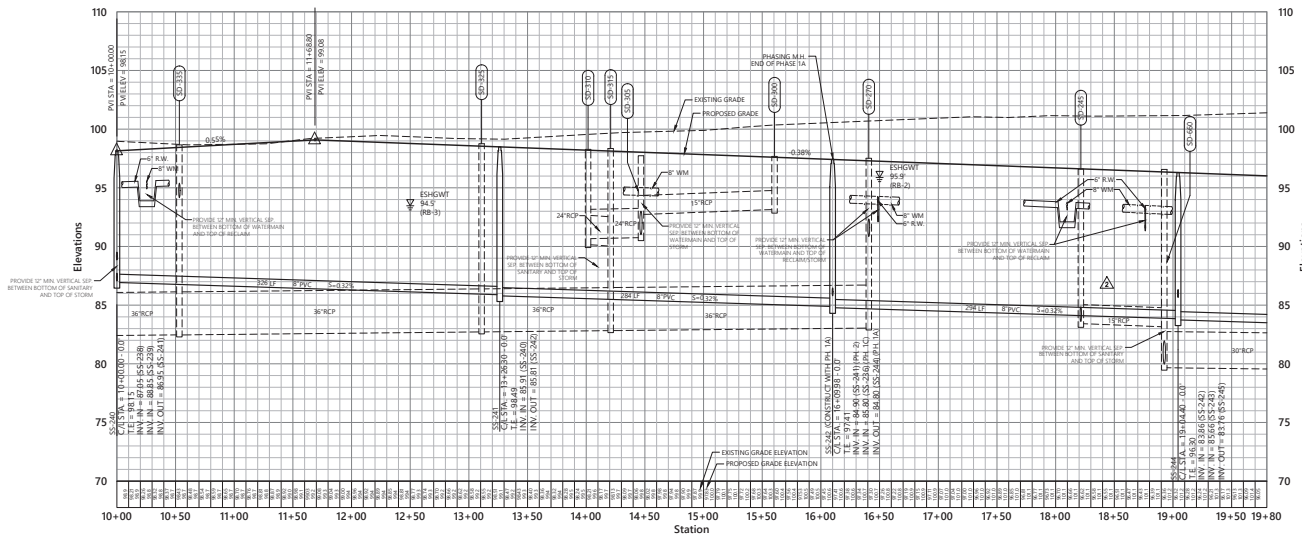


**vhb**  
225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932



## Street 'C2'

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**The Ridge PD Parcel 2**

Apopka, Florida

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| 1   | City of Apopka Comments        | 05/11/2022 |        |
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| 3   | Submit to SHRMWD               | 10/18/2023 |        |
| 4   | SHRMWD Comments                | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

Designed by: DMK  
Checked by: JBH  
Date: Feb. 25, 2022

**Construction Site Plan**  
Vertical Datum NAVD 1988

**Plan & Profile**  
**Street 'C2'**

Drawing Number: **C6.03**

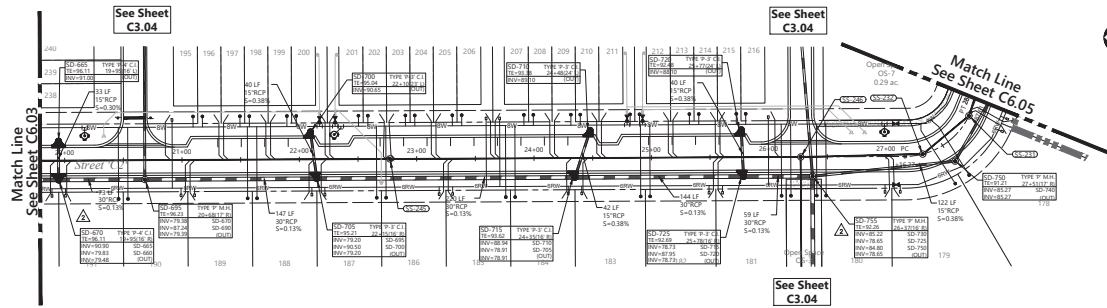
State of Florida Professional Engineer Seal: NO. 59469, John B. Prosser, P.E., DATE: Jan. 17, 2024, PROJECT NUMBER: 63534.03



225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932



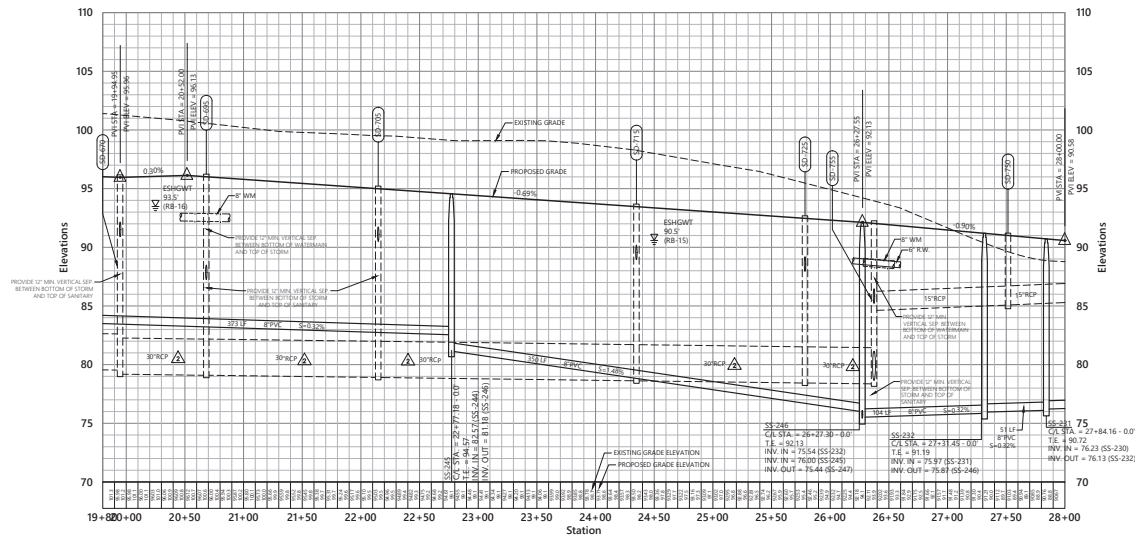
Key Map  
N.T.S.



## Street 'C2'

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Vert. 0 2.5 5 10 Feet  
Horiz. 0 25 50 100 Feet



## The Ridge PD Parcel 2

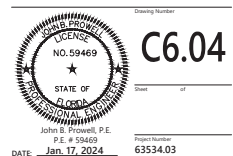
Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
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Designed by: DMK  
Reviewed by: JBH

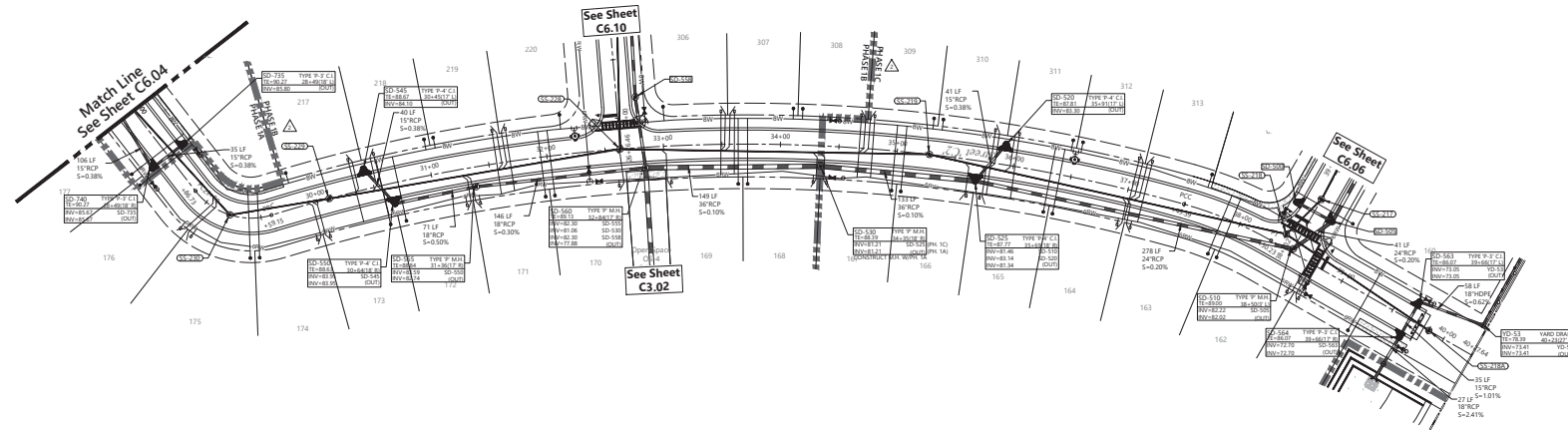
Construction Site  
Plan  
Vertical Datum NAVD 1988

## Plan & Profile Street 'C2'



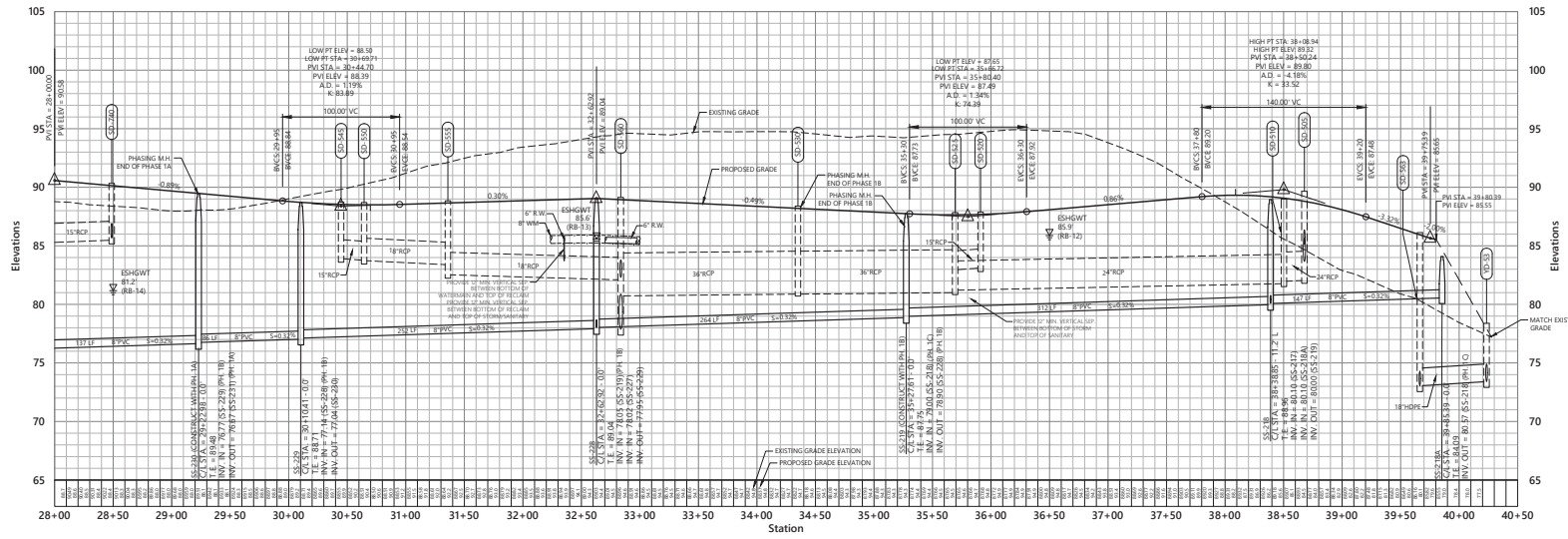
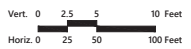
C6.04

DATE: Jan. 17, 2024  
PROJECT: 63534.03



## Street 'C2'

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## The Ridge PD Parcel 2

Apopka, Florida

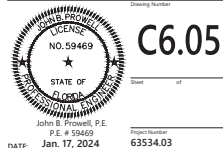
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|-----|--------------------------------|------------|--------|
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Designed by: DMK  
Checked by: JBR

Date: Feb. 25, 2022

Construction Site Plan  
Vertical Datum NAVD 1988

Plan & Profile  
Street 'C2'

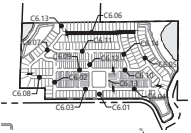


Date: Jan. 17, 2024  
Project No: 63534.03

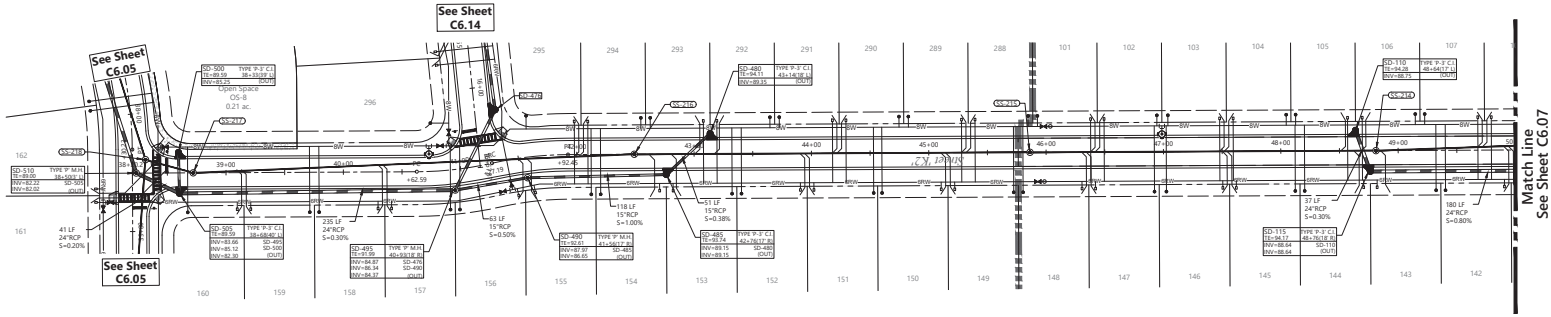




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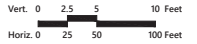
Key Map



## Street 'K2'

HIGH PT STA. 45+84.85  
HIGH PT ELEV 96.43  
PVI STA = 45+85.00  
PVI ELEV = 96.66  
A.D. = 1.89%  
K = 53.04

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## The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                  | Date       | Appr'd |
|-----|----------------------------|------------|--------|
| 1   | City of Apopka Comments    | 05/11/2022 |        |
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| 4   | SMMWD Comments             | 11/02/2023 |        |
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Designed by: DMK  
Checked by: JBH

Issued: Feb. 25, 2022

Construction Site Plan  
Vertical Datum NAVD 1988

## Plan & Profile Street 'K2'

Drawing Number: **C6.06**

NO. 59469

STATE OF FLORIDA

Professional Engineer

John B. Prosser, P.E.

P.E. # 59469

DATE: Jan. 17, 2024

PROJECT NUMBER: 63534.03



- Vert. 0 2.5 5 10 Feet  
Horiz. 0 25 50 100 Feet

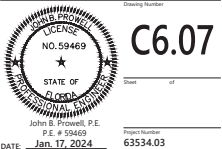


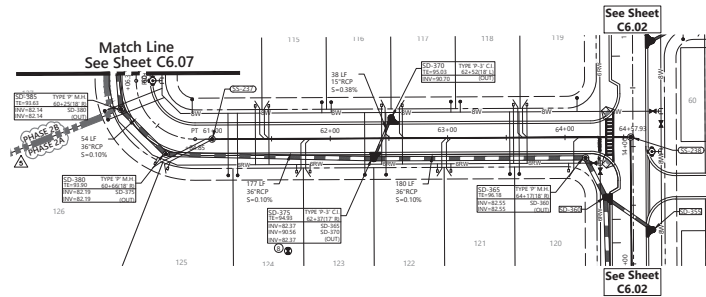
| No. | Revision                      | Date       | Apprvd. |
|-----|-------------------------------|------------|---------|
| 1   | City of Appleton Comments     | 05/17/2022 |         |
| 2   | Client Revision               | 11/11/2022 |         |
| 3   | Submit to SIRWMD              | 10/9/2023  |         |
| 4   | SIRWMD Comments               | 11/02/2023 |         |
| 5   | Phase 2 Sub-Phasing Revisions | 01/17/2024 |         |

Construction Site

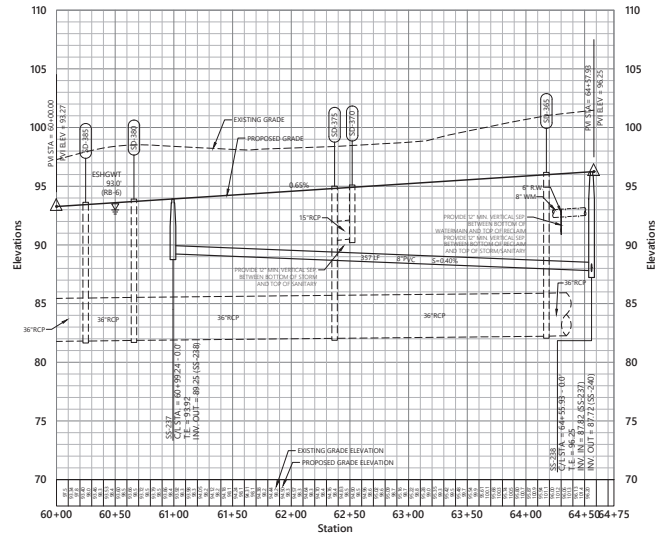
Vertical Datum NAVD 1988

### Plan & Profile Street 'K2'

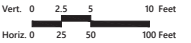




## Street 'K2'



1. PROVIDE 3' MINIMUM HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND EDGE OF PAVEMENT.
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## The Ridge PD Parcel 2

Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revisions               | 11/11/2022 |        |
| 3   | Submittal to SRRMWD            | 10/18/2023 |        |
| 4   | SRRMWD Comments                | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

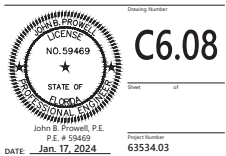
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Checked by: JBH

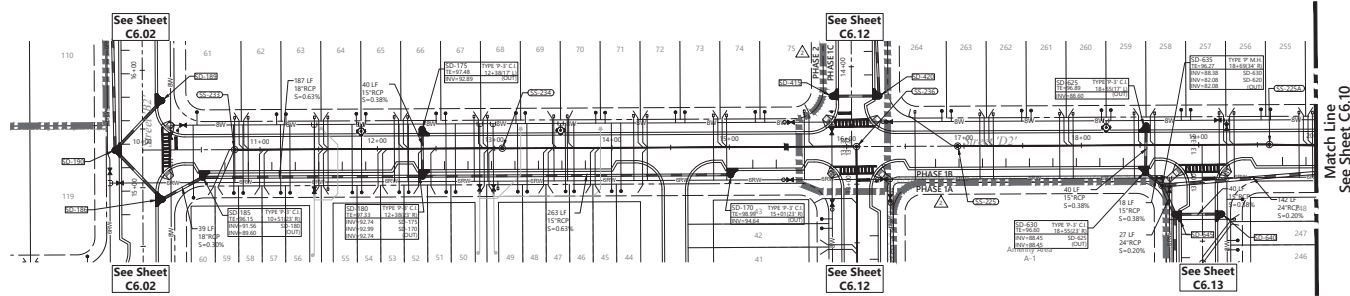
Reviewed by: Date: Feb. 25, 2022

Construction Site Plan

Vertical Datum NAVD 1988

Plan & Profile  
Street 'K2'



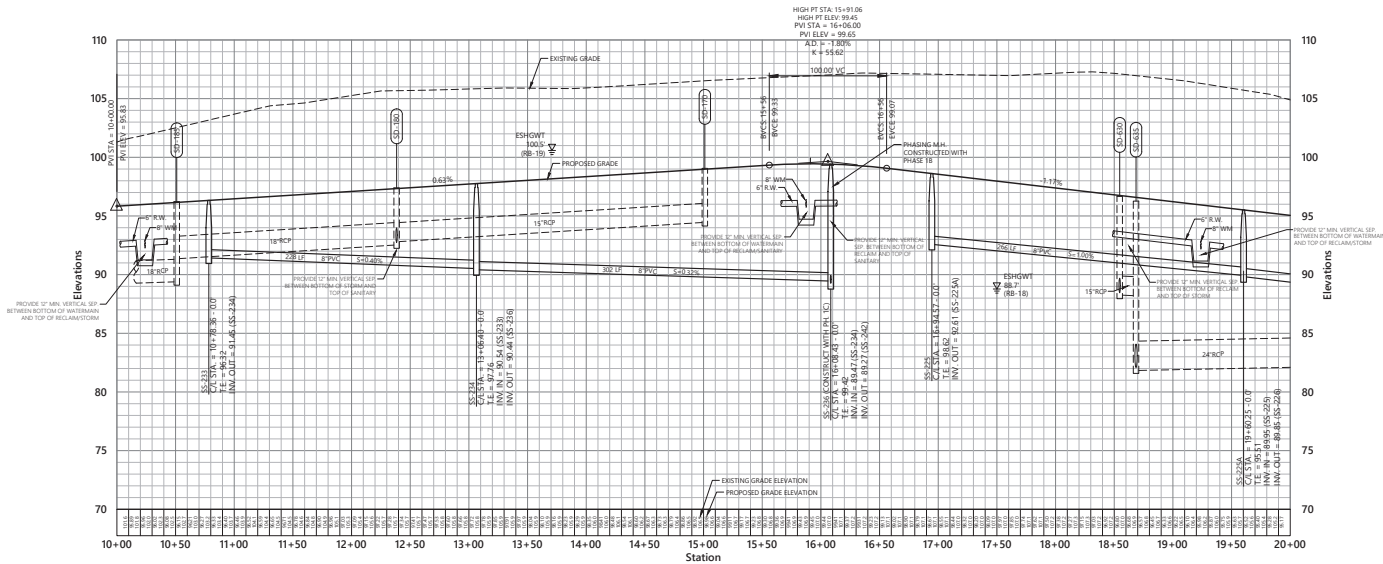


225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932



Key Map  
N.T.S.

## Street 'D2'



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Vert. 0 2.5 5 10 Feet  
Horiz. 0 25 50 100 Feet

## The Ridge PD Parcel 2

Apopka, Florida

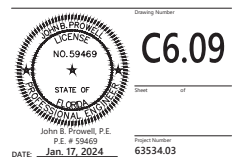
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Designed by: DMK  
Checked by: JBH

Date: Feb. 25, 2022

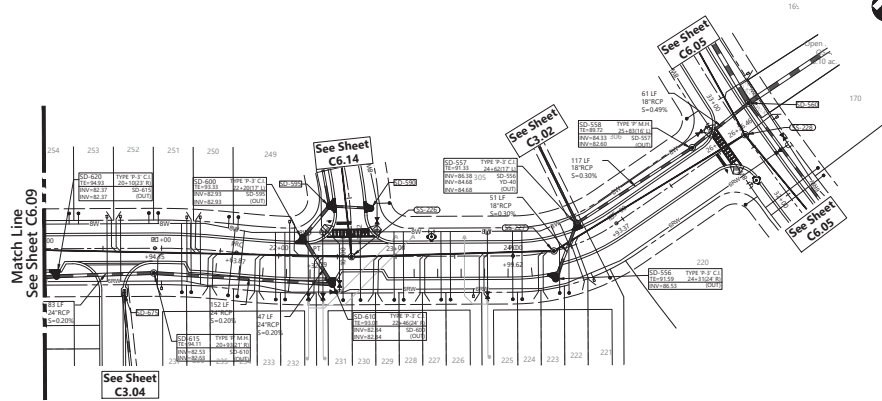
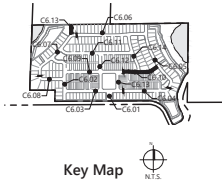
Construction Site  
Plan  
Vertical Datum NAVD 1988

## Plan & Profile Street 'D2'

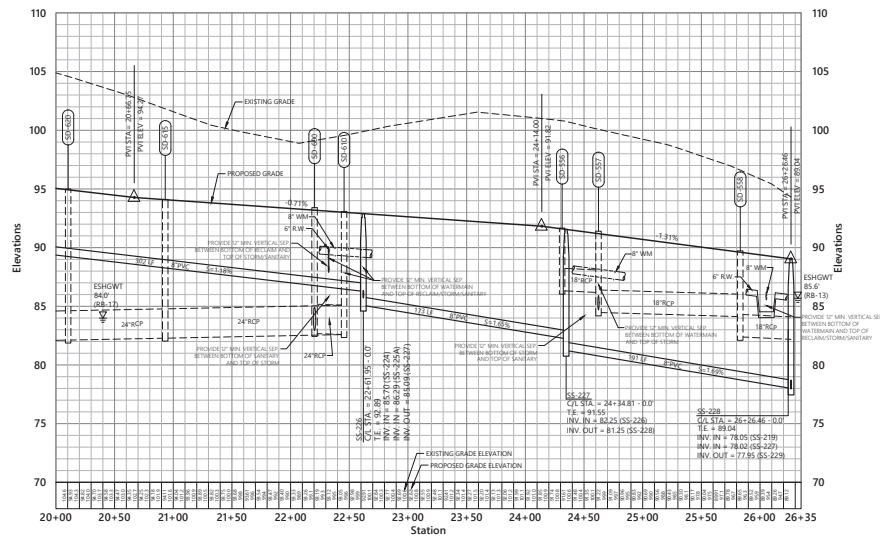


DATE: Jan. 17, 2024  
63534.03

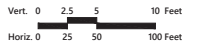




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## The Ridge PD Parcel 2

Apopka, Florida

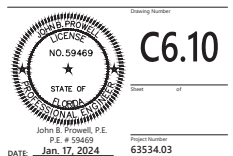
| No. | Revisions                      | Date       | Appr'd |
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| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

Designed by: DMK  
Checked by: JBH

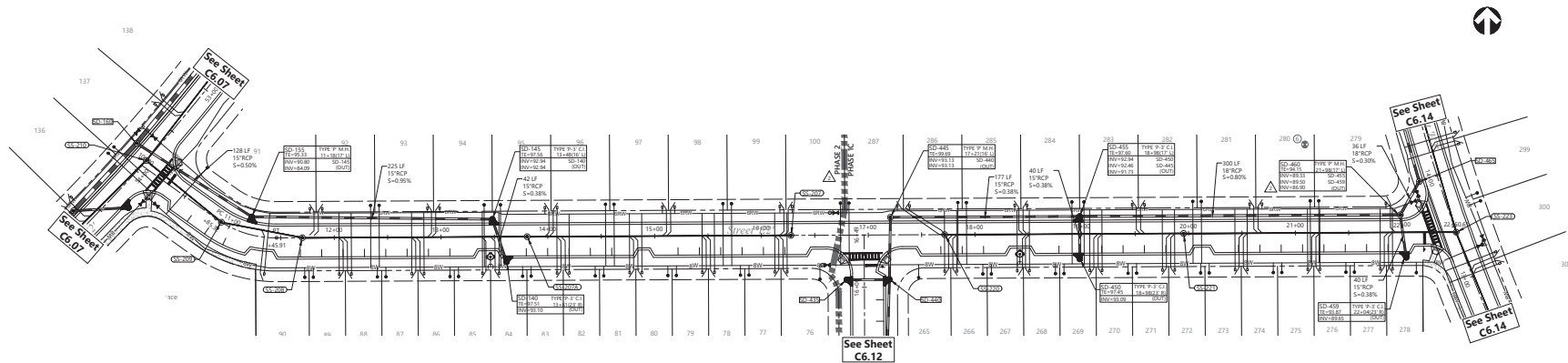
Issued: Date: Feb. 25, 2022

Construction Site  
Plan  
Vertical Datum NAVD 1988

Plan & Profile  
Street 'D2'



DATE: Jan. 17, 2024  
Project Number: 63534.03



**vhb**  
225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932

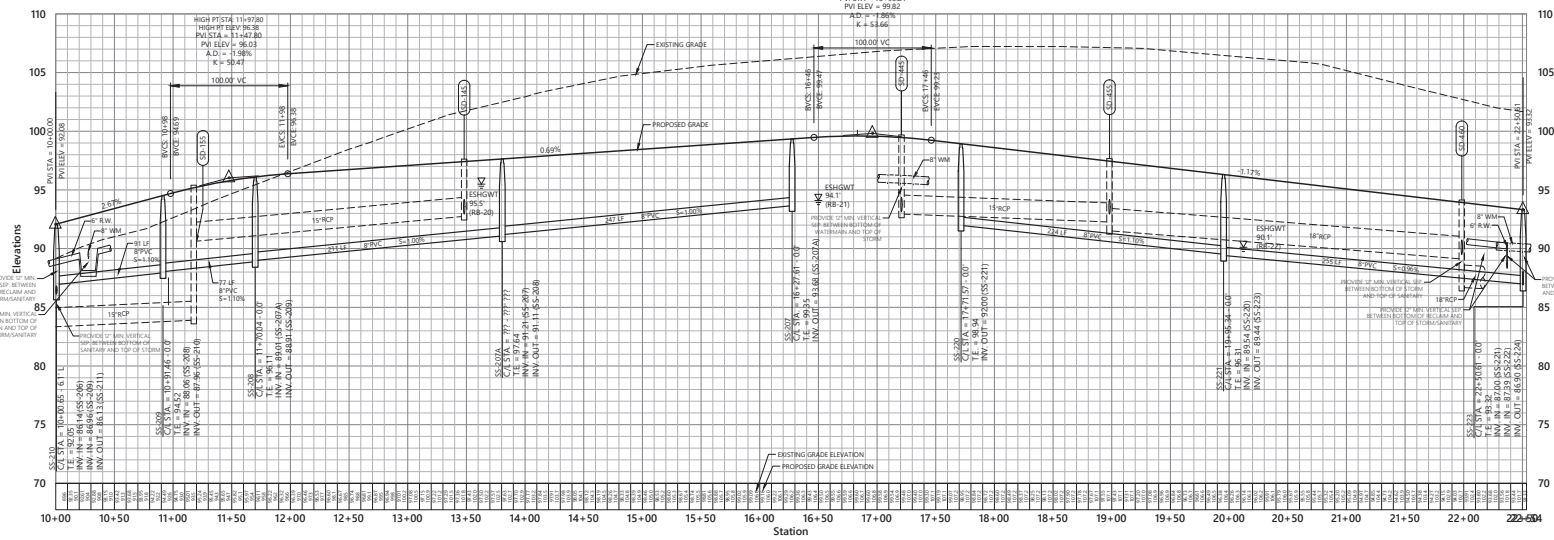
Key Map

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Vert. 0 2.5 5 10 Feet  
Horiz. 0 25 50 100 Feet

## Street 'E2'

HIGH PT STA: 16+83.30  
HIGH PT ELEV: 99.60  
PVI STA: 16+98.21  
PVI ELEV: 99.82  
X = 15.96  
Y = 0.0000



**The Ridge PD  
Parcel 2**

Apopka, Florida

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Designed by: DMK  
Checked by: JBH  
Date: Feb. 25, 2022

**Construction Site  
Plan**  
Vertical Datum NAVD 1988

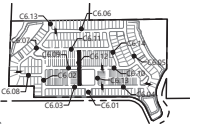
**Plan & Profile  
Street 'E2'**

Drawing Number: **C6.11**

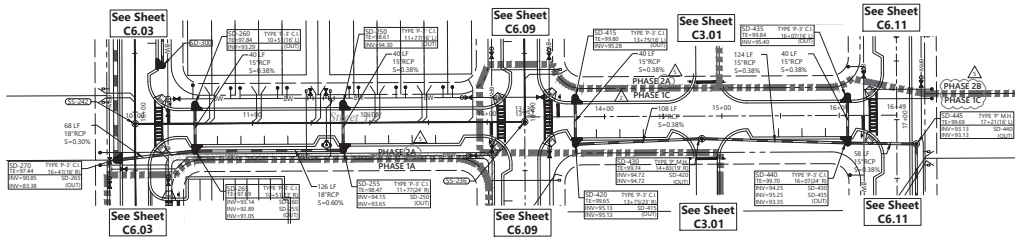
State of Florida  
Professional Engineer  
John B. Prosser, P.E.  
P.E. # 59469  
DATE: Jan. 17, 2024 63534.03



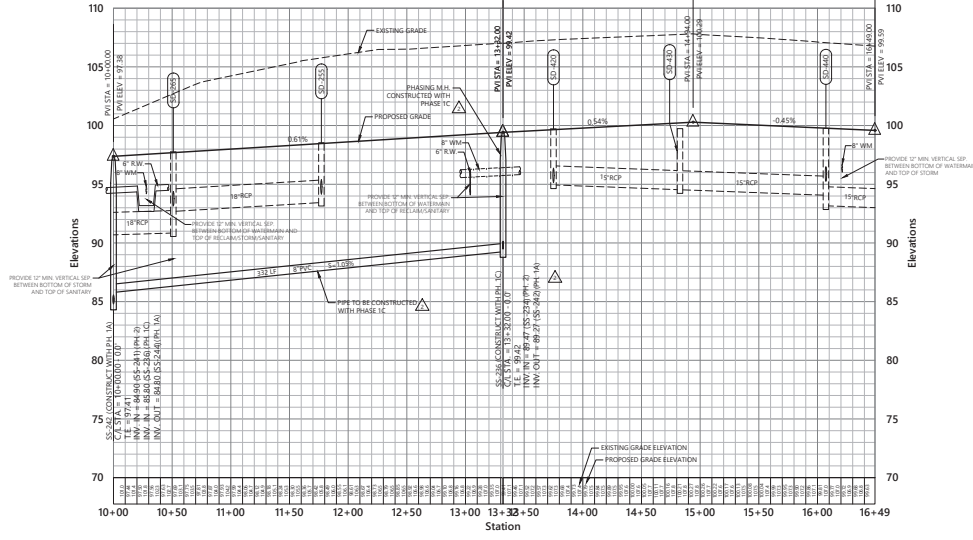
225 E. Robinson Street  
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Certificate of Authorization  
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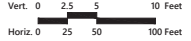
Key Map



## Street 'F2'



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## The Ridge PD Parcel 2

Apopka, Florida

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| 4   | SRA/MD Comments                | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planning Revisions | 05/11/2024 |        |

Designed by: DMK Checked by: JBH

Reviewed by: Date: Feb. 25, 2022

Construction Site Plan

Vertical Datum NAVD 1988

Plan & Profile

Street 'F2'



DATE: Jan. 17, 2024

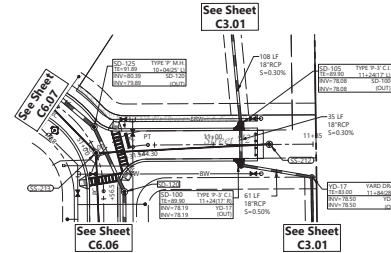
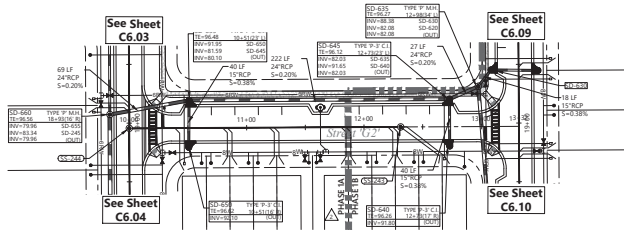
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225 E. Robinson Street  
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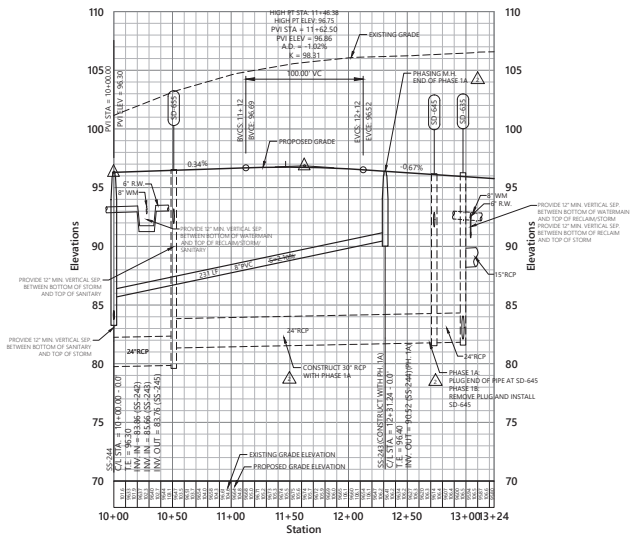
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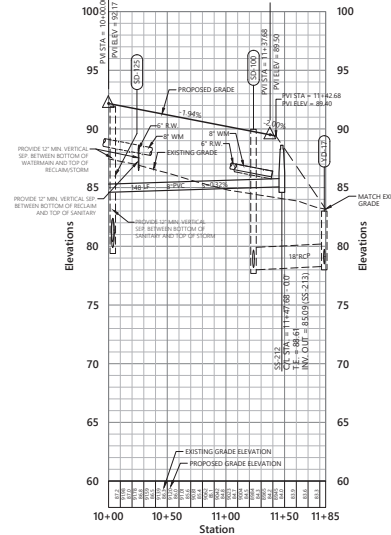
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## Street 'G2'



## Street 'J2'



## The Ridge PD Parcel 2

Apopka, Florida

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| 5   | Phase 2 Submittal Revisions | 05/11/2024 |        |

Designed by: DMK  
Checked by: JBR

Issued: Feb. 25, 2022

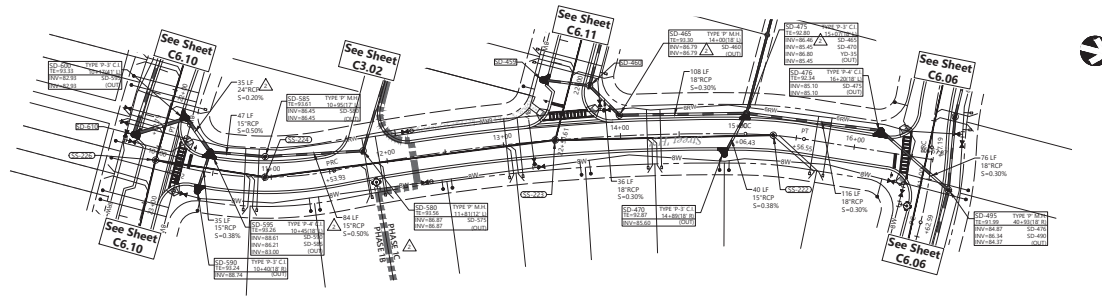
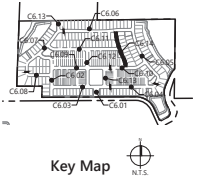
Construction Site Plan

Vertical Datum NAVD 1988

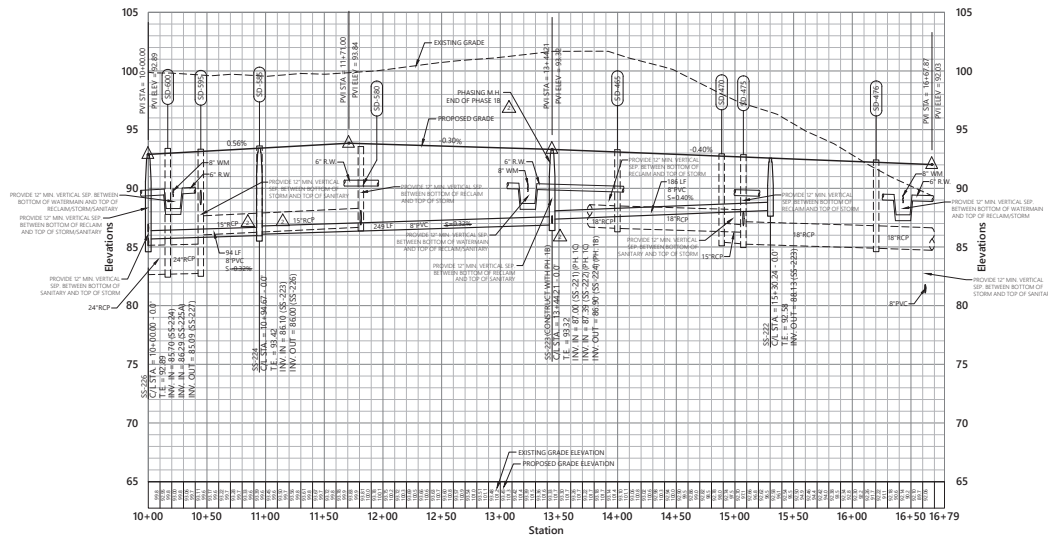
Plan & Profile  
Streets 'G2' and 'J2'







## Street 'H2'



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## The Ridge PD Parcel 2

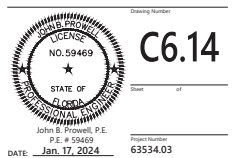
Apopka, Florida

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|             |     |            |               |
|-------------|-----|------------|---------------|
| Designed by | DMK | Checked by | JBH           |
| Reviewed by |     | Date       | Feb. 25, 2022 |

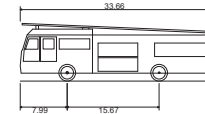
Construction Site  
Plan  
Vertical Datum NAVD 1988

Plan & Profile  
Street 'H2'



DATE: Jan. 17, 2024

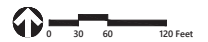
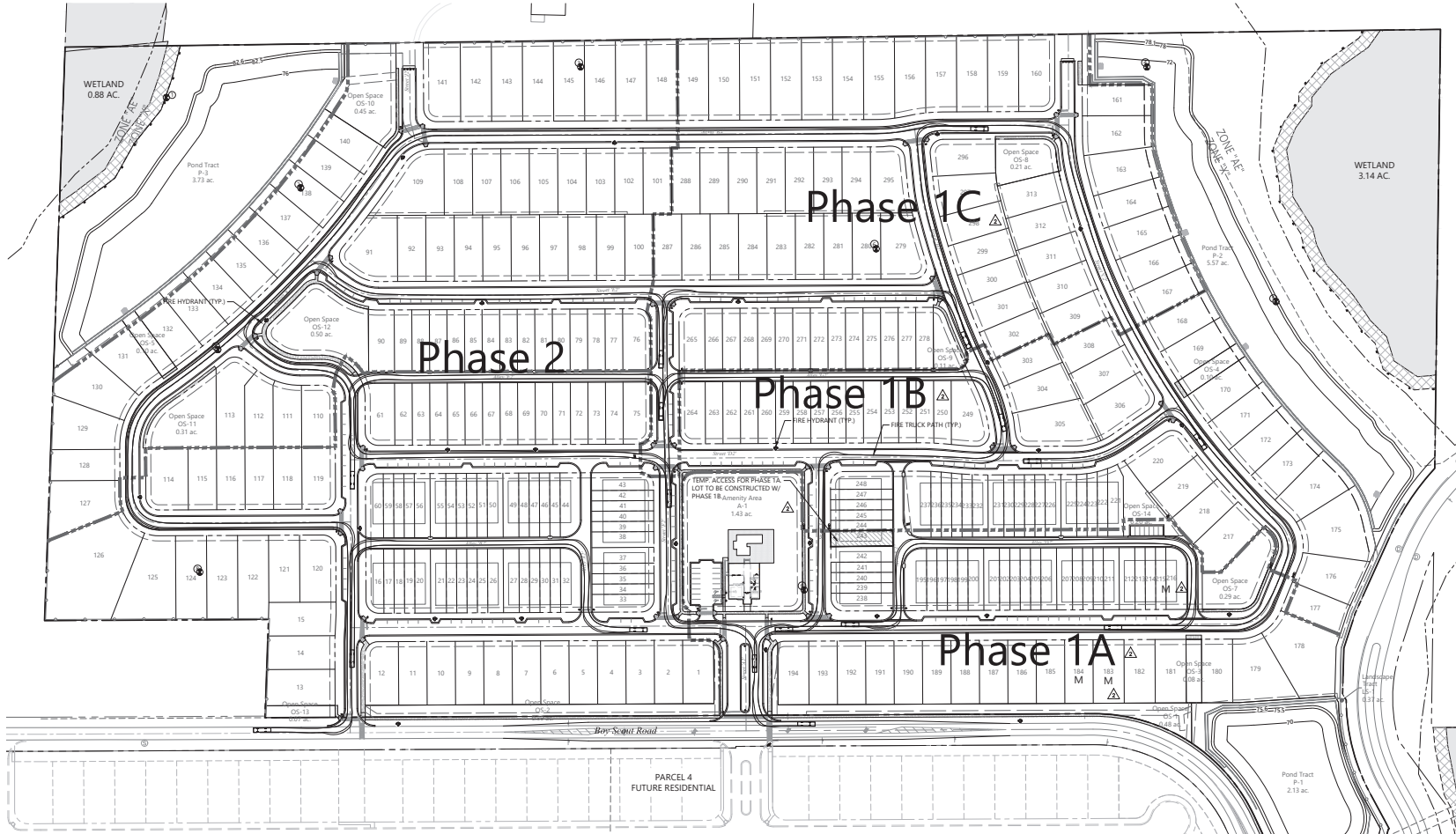
Project Number: 63534.03



Apopka-Engine/Pumper 4000  
Overall Length  
Overall Width  
Overall Body Height  
Min Body Ground Clearance  
Track Width  
Lock-to-lock time  
Curb to Curb Turning Radius

33.660ft  
8.160ft  
9.830ft  
1.363ft  
8.160ft  
6.00s  
28.190ft

**vhb**  
vhb.com  
225 E. Robinson Street  
Suite 300  
Orlando, FL 32801  
407.839.4006  
Certificate of Authorization  
Number FL #3932



## The Ridge PD Parcel 2

Apopka, Florida

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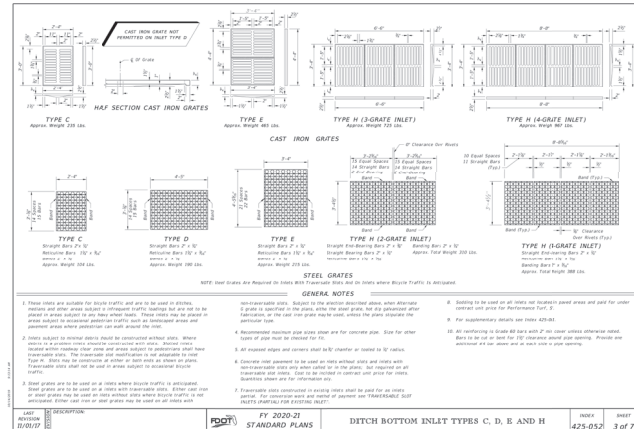
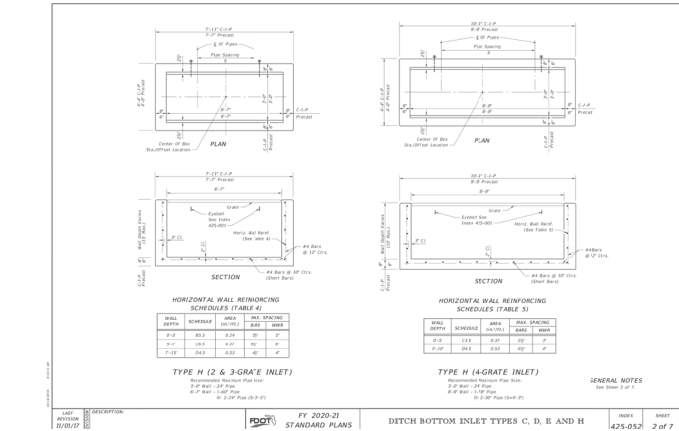
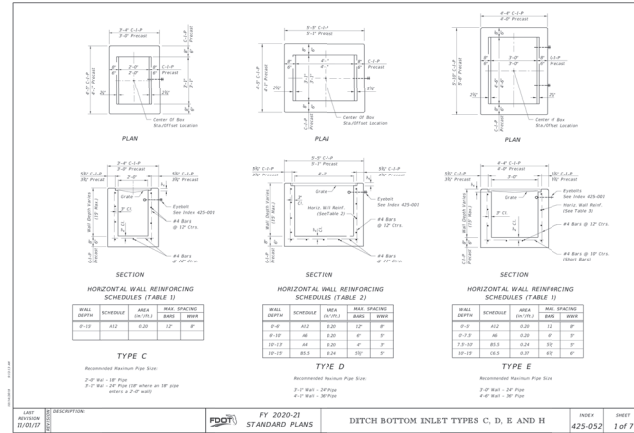
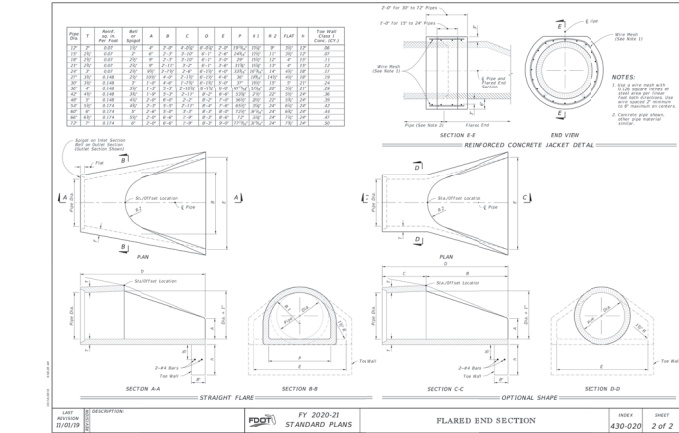
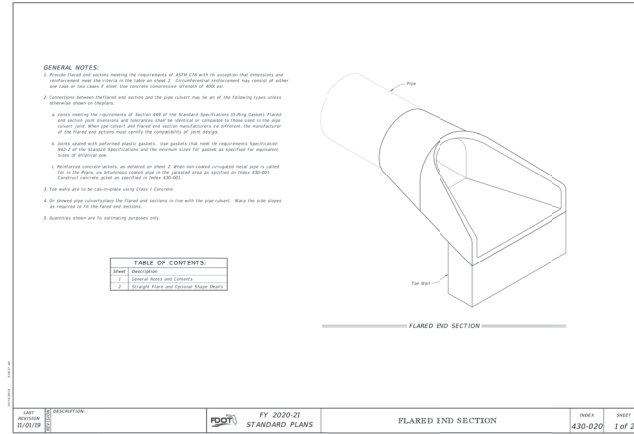
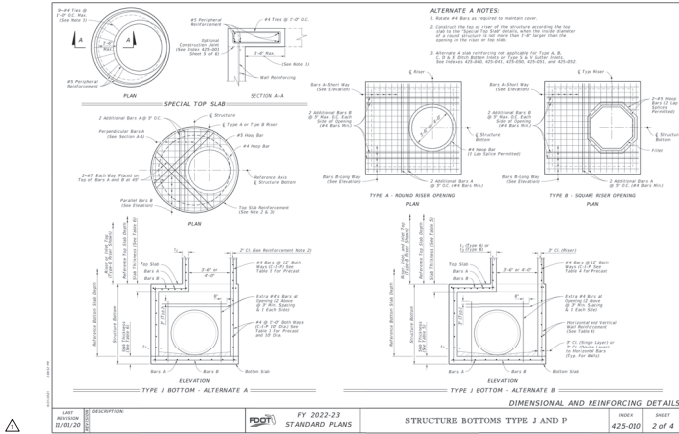
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Checked by: JBR

Construction Site Plan  
Vertical Datum NAVD 1988

Fire Access Plan

Stamp: NO. 59469, STATE OF FLORIDA, PROFESSIONAL ENGINEER, John B. Prosser, P.E., P.E. # 59469, DATE: Jan. 17, 2024, Drawing Number: C7.00





The Ridge PD  
Parcel 2

Apopka, Florida

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Designed by: DMK

Checked by: JBH

Reviewed by: JBH

Construction Site

Plan

Vertical Datum NAVD 1988

Standard F.D.O.T. Details

Sheet Number

C9.01

State of Florida

Professional Engineer

John S. Fournell, P.E.

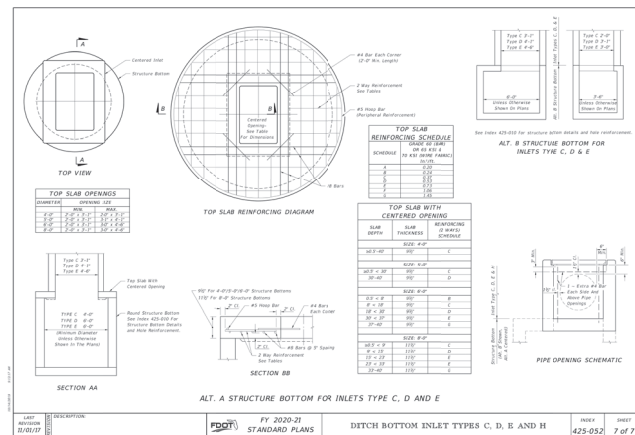
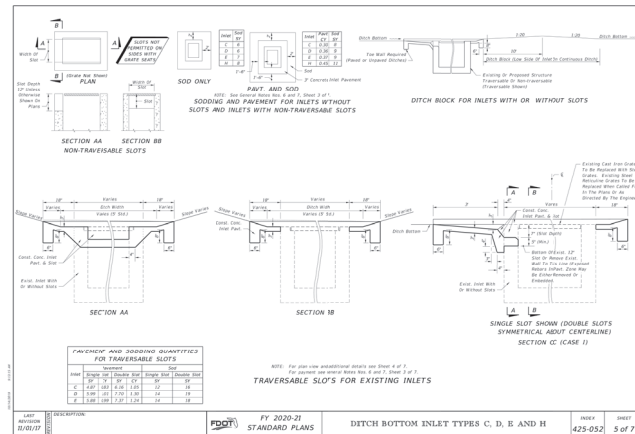
P.E. # 59469

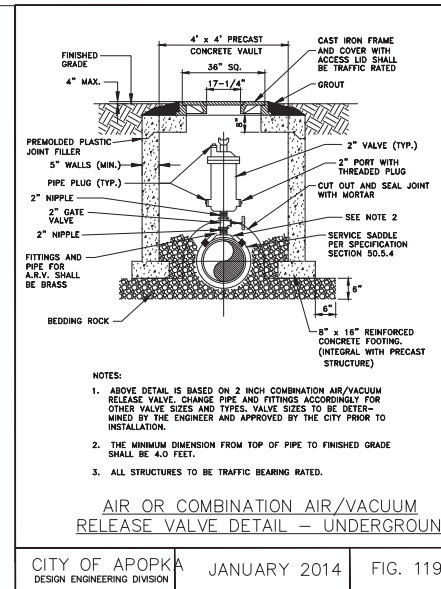
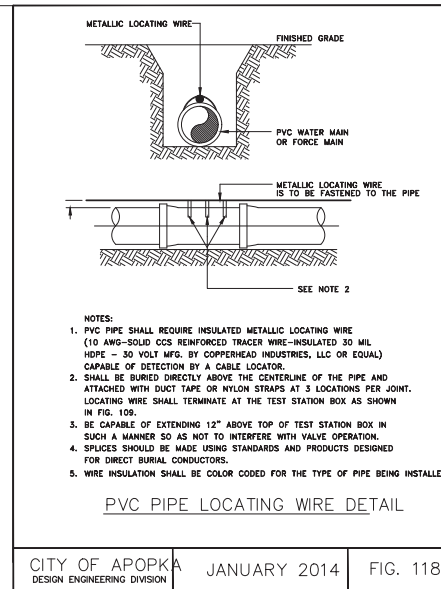
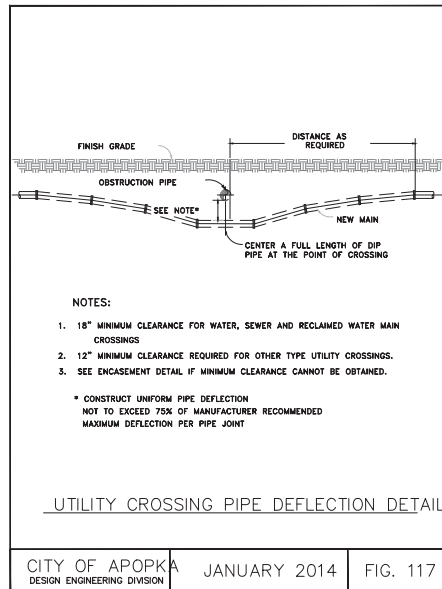
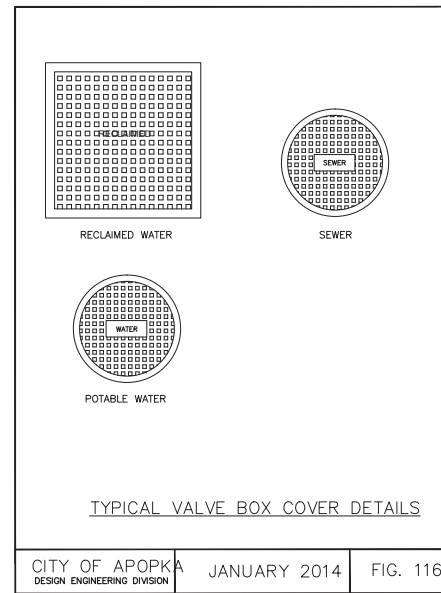
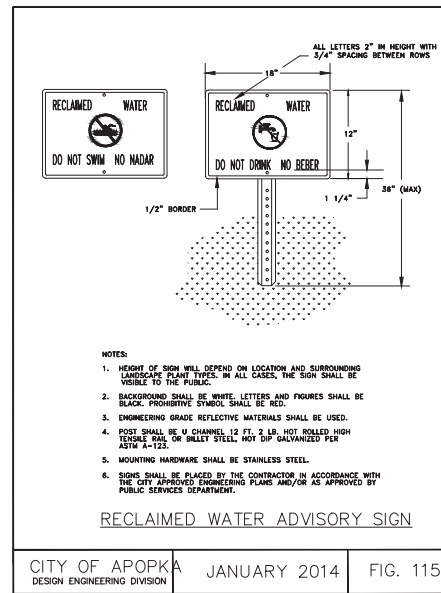
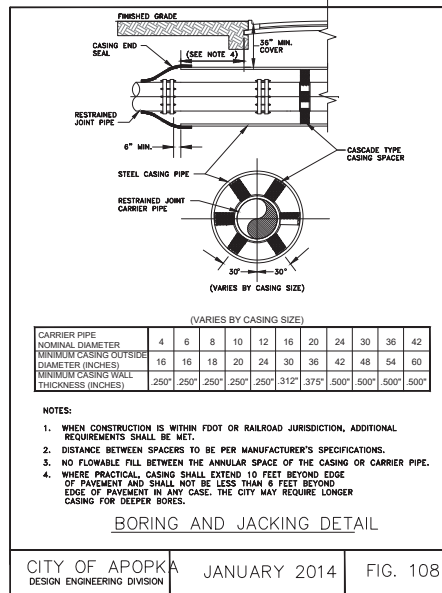
Date: Jan. 17, 2024

63534.03

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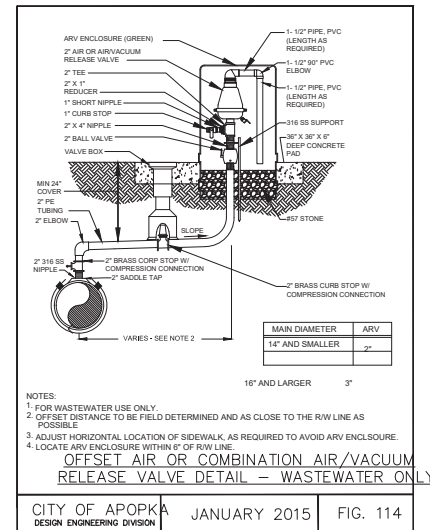
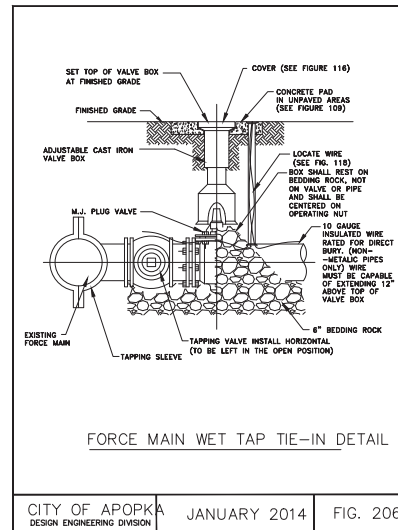
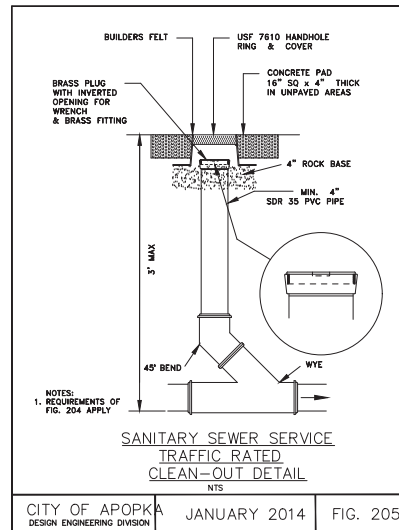
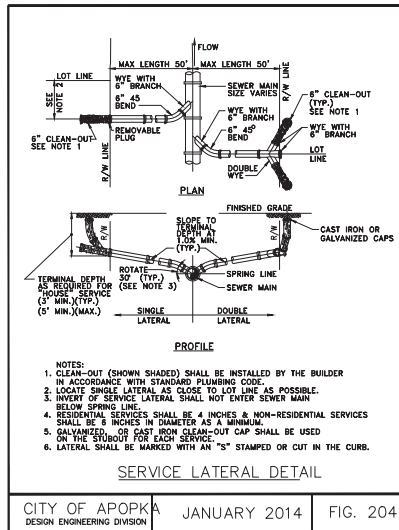
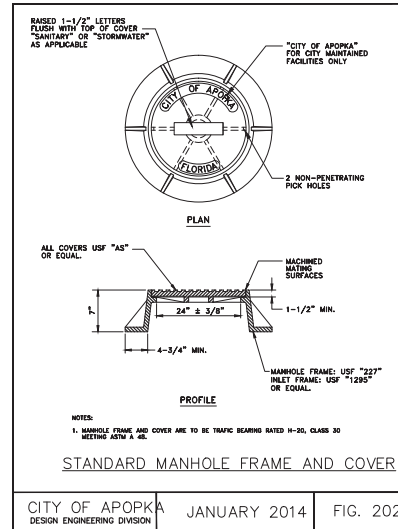
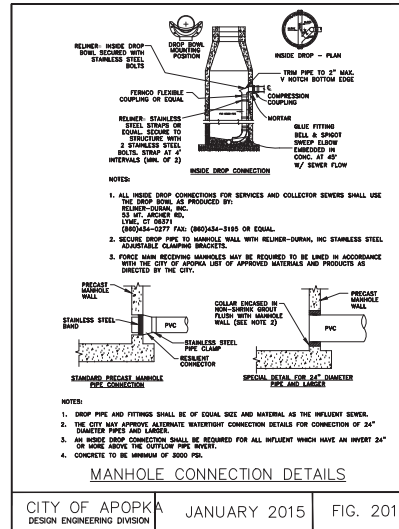
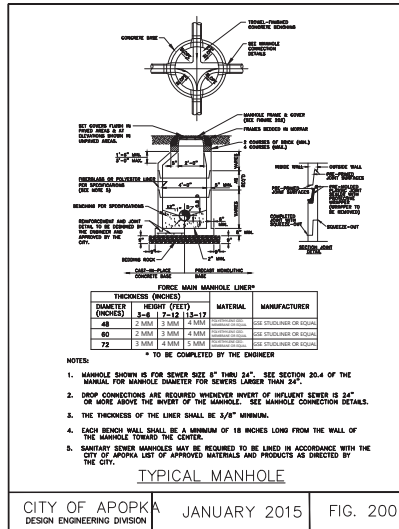




## The Ridge PD Parcel 2

| Rev | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revision                | 11/11/2022 |        |
| 3   | Submit to SMMWD                | 10/19/2023 |        |
| 4   | SMMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planting Revisions | 05/11/2024 |        |

Designed by: DMK  
Checked by: JBR4  
Reviewed by: Date: Feb. 25, 2022  
Construction Site Plan  
Vertical Datum NAVD 1988  
Drawing Title: Standard Utility Details



The Ridge PD  
Parcel 2

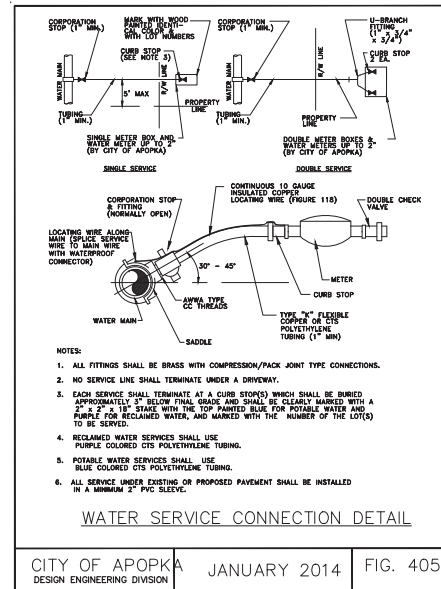
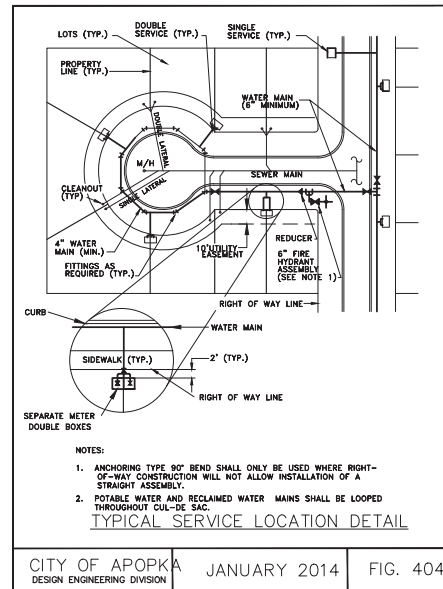
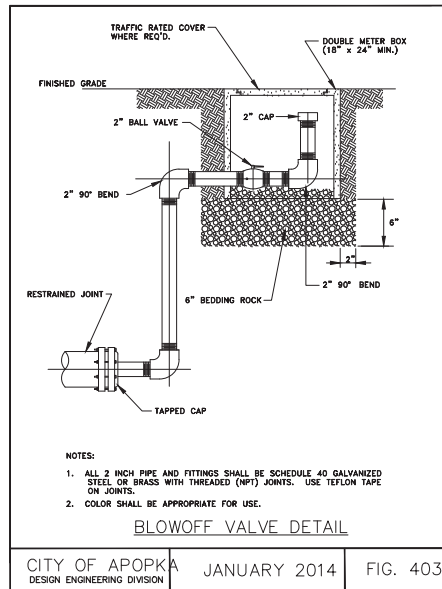
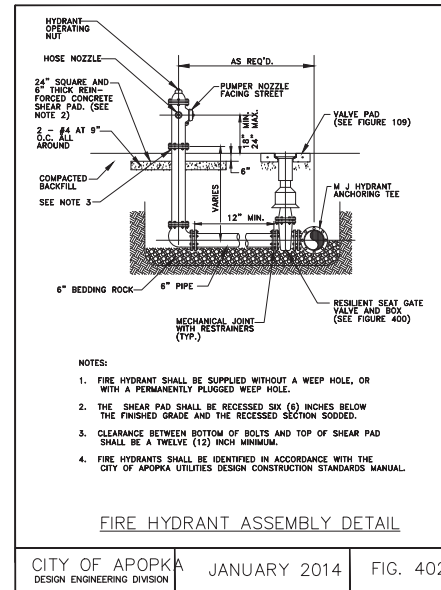
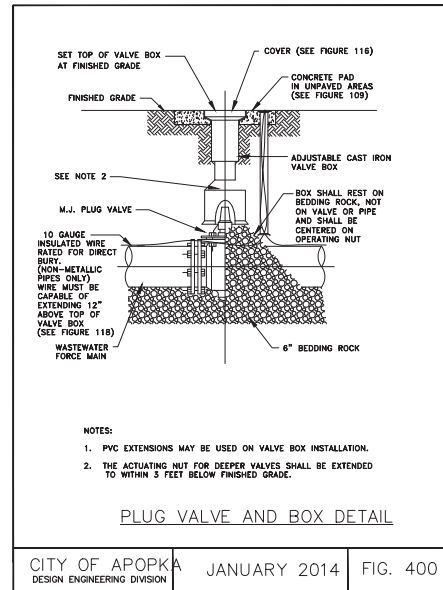
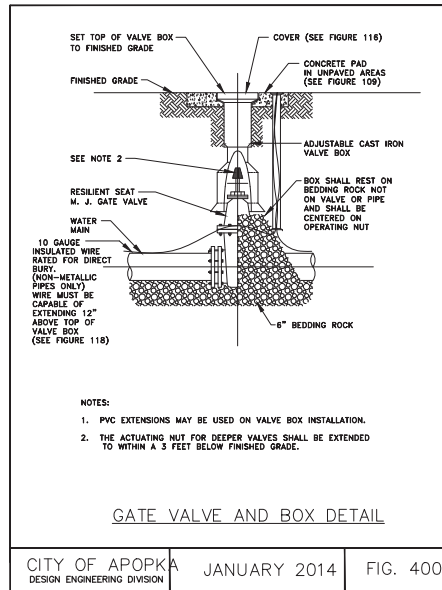
Apopka, Florida

| No. | Revisions                      | Date       | Appr'd |
|-----|--------------------------------|------------|--------|
| 1   | City of Apopka Comments        | 05/11/2022 |        |
| 2   | Client Revisions               | 11/11/2022 |        |
| 3   | Submittal to SMMWD             | 10/19/2023 |        |
| 4   | SMMWD Comments                 | 11/02/2023 |        |
| 5   | Phase 2 Sub-Planting Revisions | 05/11/2024 |        |

Designed by: DMK  
Checked by: JBN  
Reviewed by: JBN  
Date: Feb. 25, 2022

Construction Site  
Plan  
Vertical Datum NAVD 1988

Standard Utility Details



## The Ridge PD Parcel 2

| No. | Revisions                      | Date       | Appr'd. |
|-----|--------------------------------|------------|---------|
| 1   | City of Apopka Comments        | 05/11/2022 |         |
| 2   | Client Revisions               | 11/11/2022 |         |
| 3   | Submit to SMMWD                | 10/19/2023 |         |
| 4   | SMMWD Comments                 | 11/02/2023 |         |
| 5   | Phase 2 Sub-Planting Revisions | 01/11/2024 |         |

Designed by: DMK  
Checked by: JBR

Construction Site Plan  
Vertical Datum NAVD 1988

Feb. 25, 2022

## Standard Utility Details

