

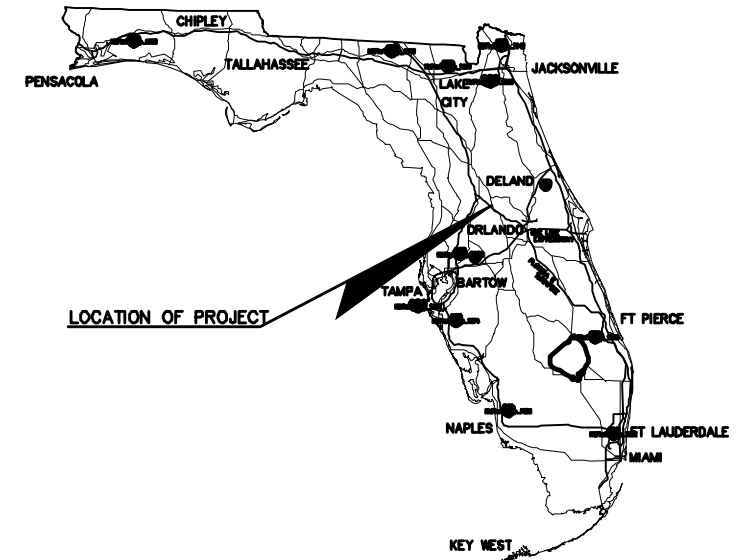
ROUNDBOUT AT CR 19A AND EUDORA ROAD / OLD 441

UTILITY RELOCATION

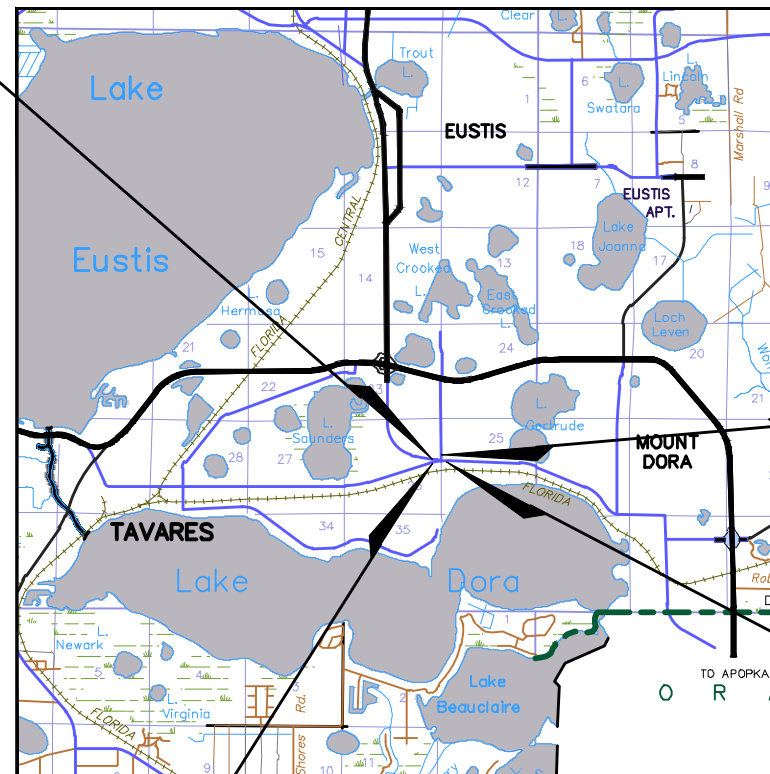
COMPONENTS OF CONSTRUCTION PLAN SET
UTILITY RELOCATION PLANS



LAKE COUNTY, FLORIDA



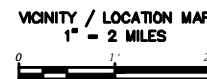
BEGINNING OF PROJECT
CR 19A STA. 434+90.97



END CONSTRUCTION
EUDORA RD. STA. 504+23.51

ENDING OF PROJECT
OLD CR 441E STA. 646+89.34

BEGIN CONSTRUCTION
OLD CR 441 SW 146+85.74



1. KEY SHEET
2. PLAN LAYOUT AND GENERAL NOTES
3. UTILITY RELOCATION SHEET
4. UTILITY RELOCATION SHEET
5. UTILITY RELOCATION SHEET
6. UTILITY RELOCATION SHEET
7. UTILITY RELOCATION SHEET
8. UTILITY RELOCATION SHEET
9. PROFILE SHEET
10. PROFILE SHEET
11. PROFILE SHEET
12. PROFILE SHEET
13. DETAILS
14. DETAILS
15. FDOT INDEX 425-080

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

UTILITY RELOCATION PLANS
ENGINEER OF RECORD

BIJAY UPRETI, P.E.
HALFF ASSOCIATES, INC.
902 NORTH SINCLAIR AVENUE
TAVARES, FLORIDA 32778
(352) 343-8481

PLANS PREPARED BY:



902 North Sinclair Ave.
Tavares, Florida 32778
Office: 352.343.8481
Fax: 352.343.8495
Certificate of Authorization Number: 33380

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

- CRISSEY STILE
MAYOR
- | | |
|---|-------------------------------|
| DOUG BRYANT
AT-LARGE | CAL ROLFSON
DISTRICT 2 |
| HARMON MASSEY
AT-LARGE
VICE MAYOR | AUSTIN GUENTHER
DISTRICT 3 |
| JOHN CATALDO
DISTRICT 1 | MARC CRAIL
DISTRICT 4 |
| NATE WALKER
DISTRICT 5 | GEORGE MAREK
CITY ENGINEER |
| PATRICK C. COMISKEY
CITY MANAGER | JOSH KRAMM
UTILITY MANAGER |

OWNER/DEVELOPER:
CITY OF MOUNT DORA, FLORIDA
900 NORTH DONNELLY STREET
MOUNT DORA, FLORIDA 32757
(352) 735-7151

ENGINEER/SURVEYOR:
HALFF ASSOCIATES, INC.
902 SINCLAIR AVENUE
TAVARES, FL. 32778
BIJAY UPRETI, P.E.
(352) 343-8481

GOVERNING STANDARD PLANS
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2022-23 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRs).

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRs ARE AVAILABLE AT THE FOLLOWING WEBSITE: [HTTP://FDOT.GOV/DESIGN/STANDARDPLANS](http://fdot.gov/design/standardplans)

GOVERNING STANDARD SPECIFICATIONS
FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2022 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:
[HTTP://FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS](http://fdot.gov/programmanagement/implemented/specbooks)

UTILITY RELOCATION PLANS
ENGINEER OF RECORD: BIJAY UPRETI, P.E.

P.E. NO.: 92728



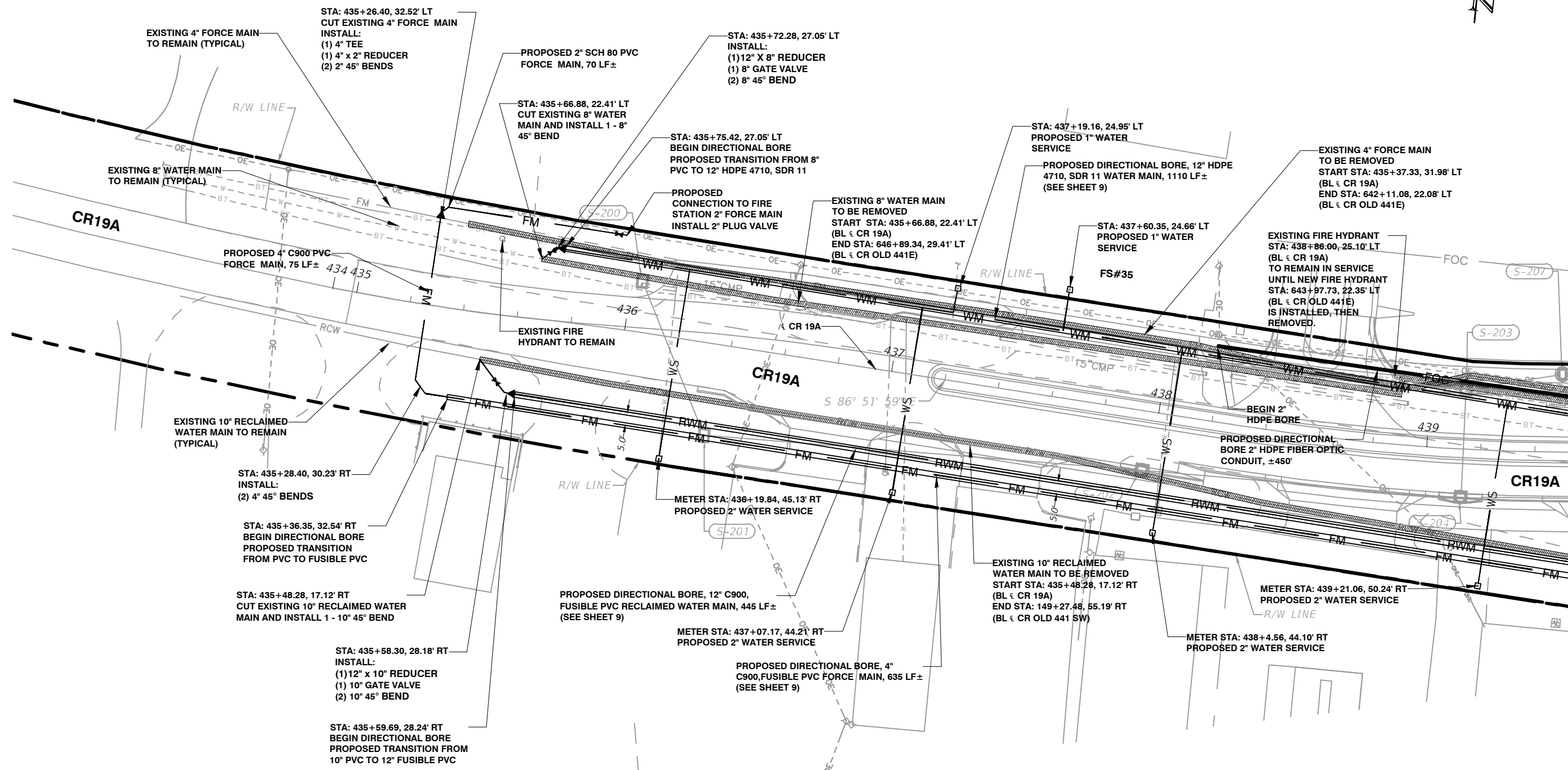
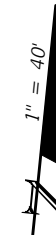
- GENERAL UTILITIES CONSTRUCTION NOTES**
- THE PUBLIC SERVICES DEPARTMENT MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO ANY WORK ON EXISTING CITY OF MOUNT DORA UTILITIES. THE CONTRACTOR MUST CONTACT JOSH KRAMM, UTILITY LINE MANAGER AT HIS OFFICE (352) 735-7151 OR CELL PHONE (352) 516-3691, DISTRIBUTION SUPERVISOR - OFFICE (352) 735-7151 OR CELL PHONE (352) 460-7922, RUSSELL HOPPER, COLLECTION & LIFT STATION SUPERVISOR - OFFICE (352) 735-7151 OR CELL PHONE (352) 973-2032.
 - NO GRADING, CUTTING, OR FILLING SHALL COMMENCE UNTIL SUCH TIME AS APPROPRIATE EROSION AND SEDIMENTATION CONTROL DEVICES HAVE BEEN INSTALLED BETWEEN THE DISTURBED AREA AND WATER BODIES, WATERCOURSES OR WETLANDS.
 - CONSTRUCTION MUST BE PER THE DRC APPROVED SITE PLAN, DEVIATIONS IN ROADWAY, UTILITY OR DRAINAGE CONSTRUCTION WILL REQUIRE WRITTEN APPROVAL OF THE CITY ENGINEER OR THE DIRECTOR OF PUBLIC SERVICES. (NOTE: SIGNIFICANT CHANGES FROM THE DRC APPROVED PLAN MAY REQUIRE THE OWNER/DEVELOPER TO SUBMIT A REVISED SITE PLAN THROUGH THE DRC FOR REVIEW.)
 - CONTRACTOR SHALL PROVIDE AN EMERGENCY CONTACT NUMBER LIST FOR KEY SITE PERSONNEL.
 - ENGINEER OF RECORD REVIEWED SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ALL WATER/SEWER/RECLAIMED AND STORMWATER SYSTEMS TO BE DEDICATED TO THE CITY OF MOUNT DORA. TWO SETS ARE REQUIRED FOR REVIEW. ONE SET WILL BE RETURNED TO THE ENGINEER OF RECORD.
 - OFF SITE OR ROADWAY RIGHT OF WAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CONDITIONS OF THE APPROVED DOW PERMITS. A COPY OF THE APPROVED R/W PERMIT MUST BE KEPT ON-SITE AND READILY AVAILABLE DURING ALL CONSTRUCTION ACTIVITIES WITHIN THE R/W.
 - THE PUBLIC SERVICES DEPARTMENT MUST BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO UTILITY TESTING. THE CONTRACTOR MUST CONTACT JOSH KRAMM, UTILITY LINE MANAGER, AT HIS OFFICE (352) 735-7151 OR CELL (352) 516-3691, DISTRIBUTION SUPERVISOR - OFFICE (352) 735-7151 OR CELL PHONE (352) 460-7922, RUSSELL HOPPER, COLLECTION & LIFT STATION SUPERVISOR - OFFICE (352) 735-7151 OR CELL PHONE (352) 973-2032. HYDROSTATIC TESTING SHALL BE PER THE APPLICABLE PROVISIONS AS SET FORTH IN AWWA STANDARDS, (MINIMUM 150 PSI @ 2 HOURS - POTABLE/RECLAIMED AND MINIMUM 100 PSI @ 2 HOURS - FORCE MAINS).
 - GRAVITY SEWER PIPING TESTS SHALL BE IN ACCORDANCE WITH UNIBELL PVC PIPE ASSOCIATION; "RECOMMENDED PRACTICES FOR LOW-PRESSURE AIR TESTING OF INSTALLED SEWER PIPE", THE CONTRACTOR WILL BE REQUIRED TO PROVIDE VIDEO INSPECTION OF THE ENTIRE LINE DEMONSTRATING SATISFACTORY WORKMANSHIP AND SHOWING POSITIVE FLOW WITHIN THE SANITARY SYSTEM. ANY DEFECTS IN WORKMANSHIP, AREAS OF STANDING WATER OR "BELLIES" SHALL BE CAUSE FOR REJECTION. ONE DVD FORMAT COPY OF THE VIDEO INSPECTION MUST BE PROVIDED TO THE PUBLIC SERVICES DEPARTMENT.
 - THE CONTRACTOR WILL BE REQUIRED TO PROVIDE INSPECTION OF ALL STORM SYSTEM PIPES DEMONSTRATING SATISFACTORY WORKMANSHIP AND SHOWING POSITIVE FLOW WITHIN THE DRAINAGE SYSTEM. ANY DEFECTS IN WORKMANSHIP, AREAS OF STANDING WATER OR "BELLIES" SHALL BE CAUSE FOR REJECTION. ONE DVD FORMAT COPY OF THE VIDEO INSPECTION MUST BE PROVIDED TO THE PUBLIC SERVICES DEPARTMENT.
 - AFTER JUMPER CONNECTION IS REMOVED, WATER & RECLAIMED WATER SERVICES MUST BE LOCKED OUT AND KEY SUPPLIED TO CITY.
 - FOLLOWING SATISFACTORY PRESSURE TESTING, THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM, AND RECEIVE APPROVAL THEREOF FROM THE APPROPRIATE AGENCIES, PRIOR TO PLACING IN SERVICE. ADVANCE NOTICE SHALL BE PROVIDED TO THE CITY BEFORE DISINFECTING PROCEDURE START. THE DISINFECTION SHALL BE ACCOMPLISHED WITH THE APPLICABLE PROVISIONS OF AWWA STANDARDS, "DISINFECTING WATER MAINS" AND ALL APPROPRIATE AGENCY APPROVALS.

	STANDARD CONSTRUCTION DETAIL GENERAL NOTES	GU001-1A ISSUED: 2017 REVISED: --		STANDARD CONSTRUCTION DETAIL GENERAL NOTES	GU001-1B ISSUED: 2017 REVISED: --
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- General Water Notes**
- Water system components shall be installed in strict accordance with all local codes and regulations, cleaned, disinfected and bacteriologically cleared for service in accordance with the latest AWWA standards and CHAPTER 62-555 Florida Administrative Code.
 - All piping shall bear the "NSF" seal for potable water.
 - Water mains shall be per conforming to AWWA C-900, DR 18 for pipe sizes 4"-12". Pipes 14" or longer shall be AWWA C-905, DR 18. At couplings, cleaning compounds, solvents, lubricants, and pipe preparation for laying, shall be in accordance with the pipe manufacturers latest recommendations.
 - Depth of water lines to be 36" minimum cover from finish grade.
 - Water mains to be located 6.00' from back of curb or edge of pavement unless otherwise noted.
 - All sleeves under pavement shall extend 9" beyond the back of curb.
 - Disinfecting: following the pressure testing, the contractor shall disinfect all sections of the water distribution system. Disinfection shall be in accordance with the applicable provisions of AWWA standard C651 "Disinfecting water mains", and all appropriate agency approvals.
 - All hydrostatic test shall be in accordance with AWWA C600 for ductile iron pipe and C605/M23 for pipe joint.
 - All water mains shall be installed, pressure and leak tested in accordance with AWWA C600, (62-555.302(2)(b) 1 and 62-555.300, F.A.C. All installation, testing and field procedures must be provided and must conform to the applicable AWWA standards.
 - All piping materials and specifications covering pipes, joints and packing materials, internal coating and fittings, fittings, gaskets and appurtenances shall all be in accordance with the corresponding AWWA standards and be conforming to NSF requirements, as may be applicable, with exceptions allowed only if documentation and assurances are provided in compliance with paragraphs 62-555.305(3) (a) 62-555.320 (b) (b), and 62-555.320 (2)(1) (c), F.A.C. The lead use prohibition in rule 62-555.322, F.A.C. shall also apply. Polyethylene tubing shall be per AWWA C901. Underground service lines, and valves shall be per AWWA C900.
- COLOR Coding**
- All water main pipes, including fittings shall be color coded or marked blue as a predominate color to differentiate drinking water from reclaimed water or other water. Underground plastic pipe shall be solid-soft blue pipe, shall have a co-extruded blue external skin, or shall be white or black pipe with blue stripes incorporated into, or applied to, the pipe wall, and underground metal or concrete pipe shall have blue stripes applied to the pipe wall. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90° intervals around the pipe, and will remain intact during and after installation of the pipe. If tape or paint is used to stripe pipe during installation of the pipe, the tape or paint shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipes with an internal diameter of 24 inches or greater, tape or paint shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe. Aboveground pipes as drinking water treatment plants shall be color coded and labeled in accordance with subsection 62-555.300(1)(c), F.A.C., and all other aboveground pipe shall be painted blue or shall be color coated or marked like underground pipe.
- Utility Construction Notes (DEF)**
- 62-555.314 Location of Public Water System Mains:
- For the purpose of this section, the phrase "Water Mains" shall mean Mains, including treatment plant process piping, conveying either raw, partially treated, or finished drinking water; Fire Hydrant leads; and service lines that are under the control of a public Water System and that have an inside diameter of three (3") inches or greater.
- (1) Horizontal Separation Between Underground Water Mains and Sanitary or Storm Sewers, Wastewater or Storm Water Force Mains, Reclaimed Water Pipelines, and On-site Sewage Treatment and Disposal Systems:
- (a) New or relocated, underground WATER MAINS shall be laid to provide a horizontal distance of at least (3) Three Feet between the outside of the WATER MAIN and the outside of any existing or proposed Storm Sewer Water Force Main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62-630, F.A.C.
- (b) New or relocated, underground WATER MAINS shall be laid to provide a horizontal distance of at least (3) Three Feet, and preferably (10) Ten Feet, between the outside of the WATER MAIN and the outside of any existing or proposed vacuum-type Sanitary Sewer.
- (c) New or relocated, underground WATER MAINS shall be laid to provide a horizontal distance of at least (6) Six Feet and preferably (10) Ten Feet, between the outside of the WATER MAIN and the outside of any existing or proposed Gravity- or Pressure-type Sanitary Sewer, Stormwater Force Main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62-630 F.A.C. The minimum Horizontal Separation distance between WATER MAINS and Gravity-type Sanitary Sewers shall be reduced to (3) Three Feet where the BOTTOM of the WATER MAIN is laid at least (6) Six Inches above the Top of the Sewer.
- (d) New or relocated, underground WATER MAINS shall be laid to provide a horizontal distance of at least (10) Ten Feet between the outside of the WATER MAIN and all parts of any existing or proposed "On-site Sewage Treatment and Disposal System" as defined in Section 381.0005(2), F.S. and Rule 64E-6.002, F.A.C.
- (2) Vertical Separation Between Underground WATER MAINS and Sanitary or Storm Sewers, Wastewater or Storm Water Force Mains, and Reclaimed Water Pipelines:
- (a) New or relocated underground WATER MAINS crossing any existing or proposed gravity- or vacuum-type sanitary sewer or storm sewer shall be laid so the outside of the WATER MAIN is at least (6) Six inches, and preferably 12 inches above, or at least 12 inches below the outside of the other pipeline. However, it is preferable to lay the WATER MAIN "ABOVE" the other pipeline.
- (b) New or relocated, Underground WATER MAINS crossing any existing or proposed pressure-type sanitary sewer, wastewater or stormwater Force Main, or Pipeline conveying reclaimed water shall be laid so the outside of the WATER MAIN is at least (12) twelve inches ABOVE or BELOW the Outside of the other pipeline. However, it is preferable to lay the WATER MAIN above the other pipeline.
- (c) At the Utility crossings described in paragraphs (a) & (b) Above, one full length of Water Main Pipe shall be centered above or below the other pipeline so the WATER MAIN joints will be as far as possible from the other pipeline. Alternatively, at such crossings, the pipes shall be arranged so that all WATER MAIN joints are at least (3) Three Feet from all joints in Vacuum-type Sanitary Sewers, Storm Sewers, Stormwater Force Mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62-630, F.A.C., and at least (6) Six Feet from all joints in Gravity- or Pressure-type Sanitary Sewers, Wastewater force mains, or pipelines conveying reclaimed water not regulated under Part III of Chapter 62-630, F.A.C.
- (3) Separation Between WATER MAINS and Sanitary or Storm Sewer Manholes:
- (a) No WATER MAIN shall pass thru, or come into contact with any part of a Sanitary Manhole.
- (4) Separation Between Fire Hydrant Drains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, Reclaimed Water Pipelines, and On-site Sewage Treatment and Disposal Systems. New or relocated Fire Hydrants with underground drains shall be located so that the drains are at least (3) Three Feet from any existing or proposed storm sewer, Stormwater Force Main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62-630, F.A.C., at least (6) Three Feet, and preferably (10) Ten Feet, from any existing or proposed gravity- or Pressure-type Sanitary Sewer, Wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62-630, F.A.C., and at least (10) Ten Feet from any existing or proposed "on-site sewage treatment and disposal system" as defined in Section 381.0005(2), F.S. and Rule 64E-6.002, F.A.C.
- (5) Exceptions/Mitigation:
- Adhere to the above Constraints and Separations in Items 1 through 4 shall be Complied to, "WITHOUT EXCEPTION", if for some reason where it is not technically feasible or economically feasible that Items 1 through 4 cannot be complied with, Contractor will Stop Work and Notify the Engineer of record for the appropriate solution which will be submitted to "The Department of Environmental Protection" for APPROVAL, prior to work commencement.

	PIPE CLEARANCE NOTES	GU0016-2 ISSUED: 2017 REVISED: --		PIPE CLEARANCE NOTES	GU0016-2B ISSUED: 2017 REVISED: --
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NOTE:
APPARENT ERRORS, DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ENGINEER OF RECORD'S ATTENTION WITHIN A REASONABLE TIME FRAME, LESS THAN 48 HOURS AFTER BEING DISCOVERED. ADVANTAGE WILL NOT BE TAKEN OF APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULFILLMENT OF THE INTENT OF THE DESIGN.



MATCH TO SHEET: 4 STA. 439+56.94

REVISIONS	DATE

REVISIONS	DATE

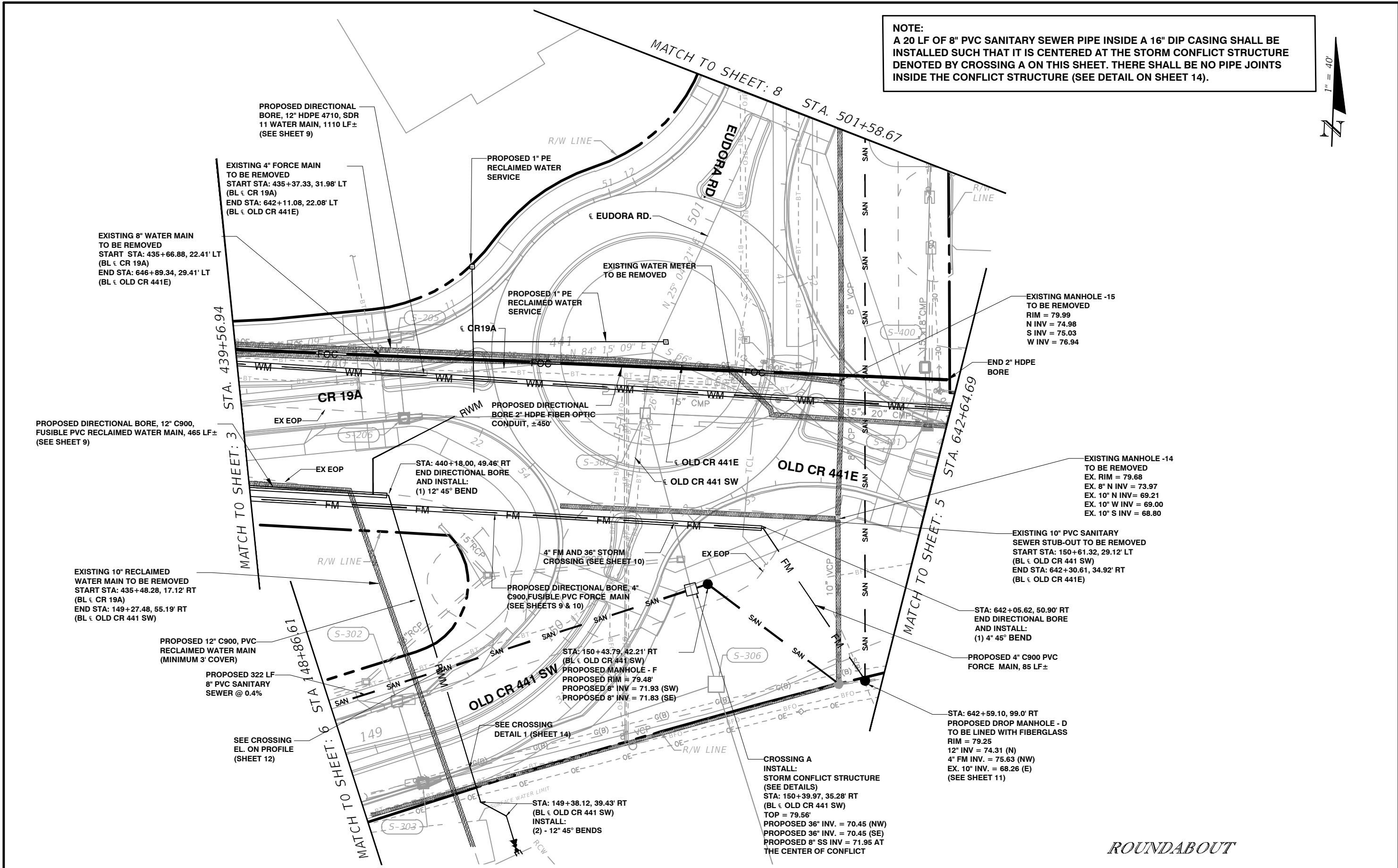


DATE: DECEMBER 2022
 BIJAY UPRETI, P.E. NO. 92728

UTILITY RELOCATION SHEETS

SHEET NO.
03

NOTE:
 A 20 LF OF 8" PVC SANITARY SEWER PIPE INSIDE A 16" DIP CASING SHALL BE INSTALLED SUCH THAT IT IS CENTERED AT THE STORM CONFLICT STRUCTURE DENOTED BY CROSSING A ON THIS SHEET. THERE SHALL BE NO PIPE JOINTS INSIDE THE CONFLICT STRUCTURE (SEE DETAIL ON SHEET 14).



ROUNDABOUT

REVISIONS	DATE



HALFF
 902 North Sinclair Ave.
 Tavares, Florida 32778
 Office: 352.343.8481
 Fax: 352.343.8495
 Certificate of Authorization Number: 33380

DATE: DECEMBER 2022
 BIJAY, UPRETI, P.E. NO. 92728

UTILITY RELOCATION SHEETS

SHEET NO.
 04



PROPOSED WATER MAIN TO BE LOCATED UNDER PROPOSED STRUCTURE (SEE SHEET 10)

PROPOSED DIRECTIONAL BORE, 12" HDPE 4710, SDR 11 WATER MAIN, 1110 LF± (SEE SHEET 10)

SEE BLOW UP DETAIL (SHEET 14)

STA: 643+75.83, 31.32' LT
INSTALL:
(1) - 12" TEE TURNED UP
(1) - 12" x 6" REDUCER
(1) - 6" 90° BEND
(1) - 6" GATE VALVE
CONNECT TO 6" WATER MAIN

EXISTING 6" WATER MAIN TO REMAIN

STA: 645+75.04, 27.75' LT
CUT EXISTING 6" WATER MAIN, INSTALL 12" x 6" TEE, AND CONNECT TO PROPOSED 12" WATER MAIN

STA: 646+80.22, 29.22' LT
END DIRECTIONAL BORE
INSTALL:
(1) - 12" x 8" REDUCER
(1) - 8" GATE VALVE
(2) - 8" 45° BEND
CONNECT TO EXISTING 8" WATER MAIN

MATCH TO SHEET: 4 STA. 642+64.69

643 CUT EXISTING 6" WM, INSTALL 6" TEE, AND CONNECT TO PROPOSED 6" GATE VALVE

STA: 643+97.73, 22.35' LT
INSTALL FIRE HYDRANT ASSEMBLY

EXISTING 8" WATER MAIN TO BE REMOVED
START STA: 435+66.88, 22.41' LT (BL CR 19A)
END STA: 646+89.34, 29.41' LT (BL CR OLD 441E)

STA: 643+87.80, 22.35' LT
PROPOSED 2" WATER SERVICE

646 OLD CR 441E

EXISTING 8" WATER MAIN TO REMAIN

EXISTING 8" VCP SANITARY SEWER TO REMAIN

EXISTING 6" WATER MAIN TO REMAIN

CONTRACTOR TO VERIFY ELEVATION OF WATER MAIN PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR WILL NOTIFY ENGINEER WITHIN 24 HOURS IF THERE'S A CONFLICT.

EXISTING MANHOLE - 27
TOP = 78.73'
8" INV = 67.78 (W) TO REMAIN
8" INV = 67.78 (E) TO REMAIN
8" INV = 67.49 (S) TO REMAIN

EXISTING 8" VCP SANITARY SEWER TO REMAIN

R/W LINE

OLD CR 441E

REVISIONS	DATE	CITY OF MOUNT DORA		HALFF		UTILITY RELOCATION SHEETS		SHEET NO.
								05



CITY OF MOUNT DORA

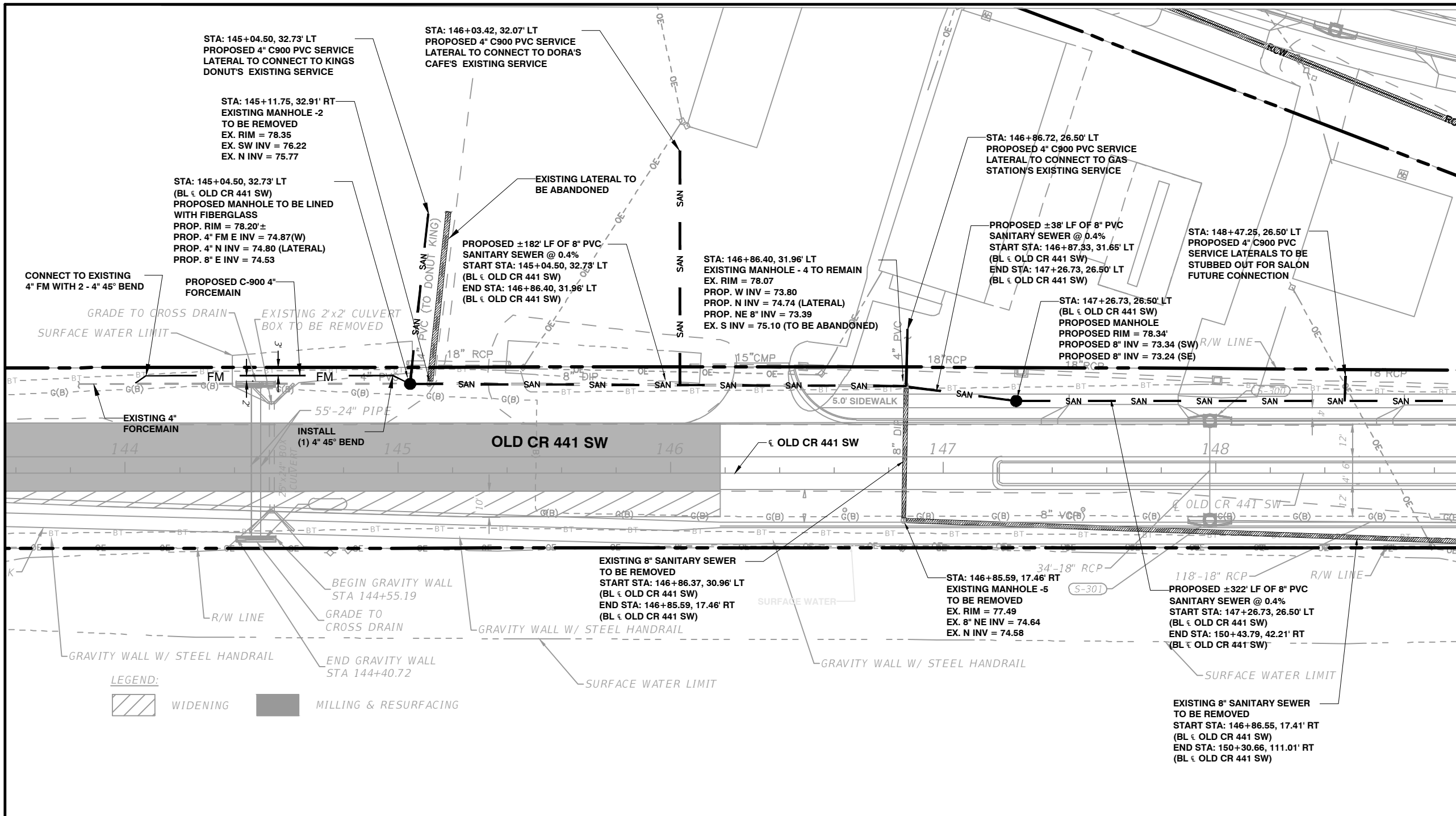
902 North Sinclair Ave.
Tavares, Florida 32778
Office: 352.343.8481
Fax: 352.343.8495
Certificate of Authorization Number: 33380

DATE: DECEMBER 2022
BJAY UPRETI, P.E. NO. 92728

UTILITY RELOCATION SHEETS

SHEET NO.

05



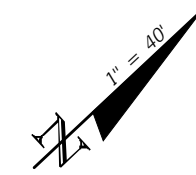
MATCH TO SHEET: 07 STA. 148+86.61

LEGEND:
 WIDENING
 MILLING & RESURFACING

NOTE:
 1. CONTRACTOR TO VERIFY LOCATION OF EXISTING BUILDING SERVICES TO CONNECT TO PROPOSED SEWER LATERALS.
 2. EXISTING 4" FORCE MAIN SERVING BARNWOOD BAR-B-QUE AND THE CHURCH SHALL BE ISOLATED, IN COORDINATION WITH THE CITY OF MOUNT DORA, FOR THE CONSTRUCTION OF PROPOSED 4" PVC FORCE MAIN AND REPLACEMENT OF MANHOLE. A NOTICE SHALL BE PROVIDED TO THE AFFECTED PROPERTIES 72-HOUR BEFORE CONSTRUCTION.

OLD CR 441 SW

REVISIONS	DATE			902 North Stinelair Ave. Tavares, Florida 32778 Office: 352.343.8481 Fax: 352.343.8495 Certificate of Authorization Number: 33380	DATE: DECEMBER 2022 BIJAY UPRETI, P.E. NO. 92728	UTILITY RELOCATION SHEETS	SHEET NO.



EXISTING 8" VCP SANITARY SEWER TO BE REMOVED
 START STA: 500+61.01, 80.71' RT
 (BL € EUDORA RD)
 END STA: 502+23.90, 11.50' RT
 (BL € EUDORA RD)

PROPOSED 293 LF OF 12" PVC SANITARY SEWER @ 1.0%

30" RCP TOP = 73.66±
 PROPOSED VERTICAL SEPARATION BETWEEN 30" RCP AND 12" SS PVC = 1.8'±

EXISTING 10" PVC SANITARY SEWER TO BE REMOVED
 START STA: 642+11.76, 20.81' LT
 (BL € OLD CR 441E)
 END STA: 642+31.08, 32.89' RT
 (BL € OLD CR 441 E)

EXISTING 10" PVC SANITARY SEWER TO BE REMOVED
 START STA: 642+31.83, 35.18' RT
 (BL € OLD CR 441E)
 END STA: 150+31.52, 111.27' RT
 (BL € OLD CR 441 SW)

PROPOSED 69 LF 8" PVC SANITARY SEWER @ 0.4%

EXISTING MANHOLE -13
 EX. RIM = 79.30
 PROPOSED 8" INV = 71.55 (NW)
 EX. 8" INV = 73.0 (SW) TO BE ABANDONED
 EX. 10" INV = 68.26 (E) TO REMAIN
 EX. 10" INV = 68.52 (N) TO BE REMOVED

EXISTING 8" SANITARY SEWER TO BE REMOVED
 START STA: 146+86.55, 17.41' RT
 (BL € OLD CR 441 SW)
 END STA: 150+30.66, 111.01' RT
 (BL € OLD CR 441 SW)

STA: 149+40.20, 55.56' RT
 (BL € OLD CR 441 SW)
 INSTALL:
 (1) - 12" x 10" REDUCER
 (1) - 10" GATE VALVE
 (1) - 10" TEE
 CONNECT TO EXISTING 10" PVC RECLAIMED WATER MAIN

ROUNDABOUT

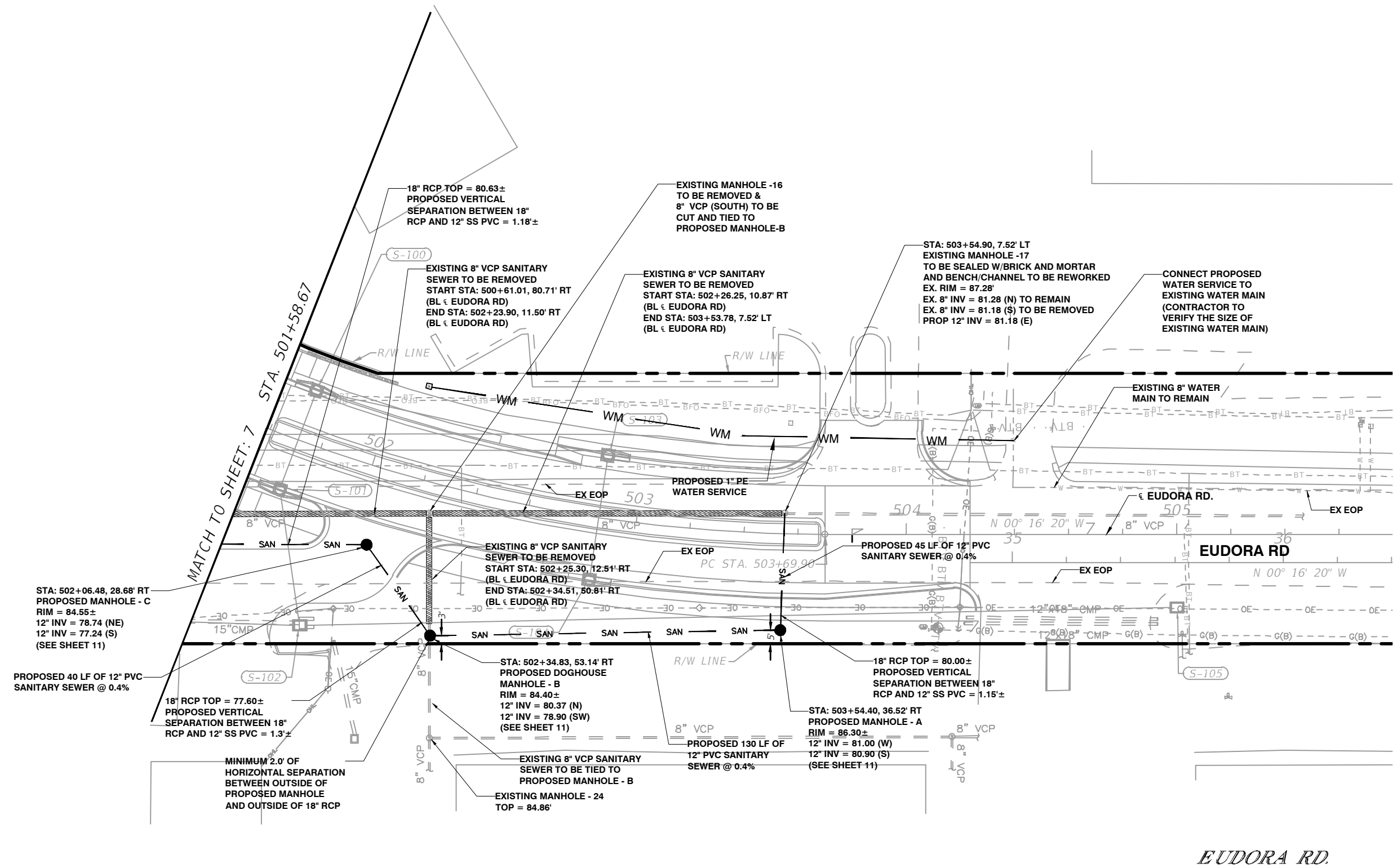
REVISIONS	DATE	CITY OF MOUNT DORA		HALFF		UTILITY RELOCATION SHEETS		SHEET NO.
								07



CITY OF MOUNT DORA

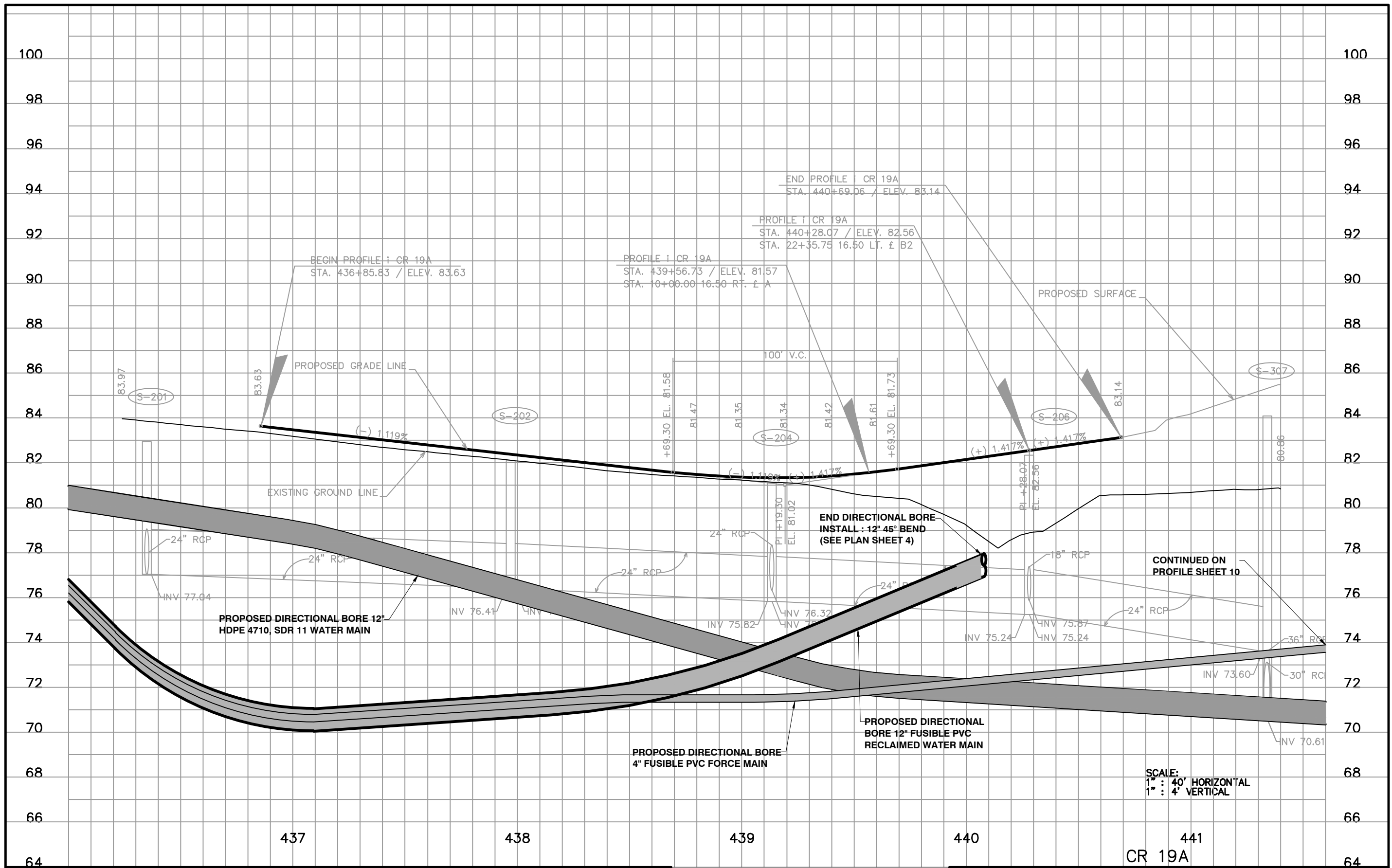
HALFF
 902 North Sinclair Ave.
 Tavares, Florida 32778
 Office: 352.343.8481
 Fax: 352.343.8495
 Certificate of Authorization Number: 33380

DATE: DECEMBER 2022
 BIJAY UPRETI, P.E. NO. 92728



EUDORA RD.

REVISIONS	DATE	CITY OF MOUNT DORA		HALFF		UTILITY RELOCATION SHEETS		SHEET NO.
		902 North Sinclair Ave. Tavares, Florida 32776		Office: 352.343.8481 Fax: 352.343.8495		DATE: DECEMBER 2022 BIJAY UPRETI, P.E. NO. 92728		08



REVISIONS	DATE

DATE



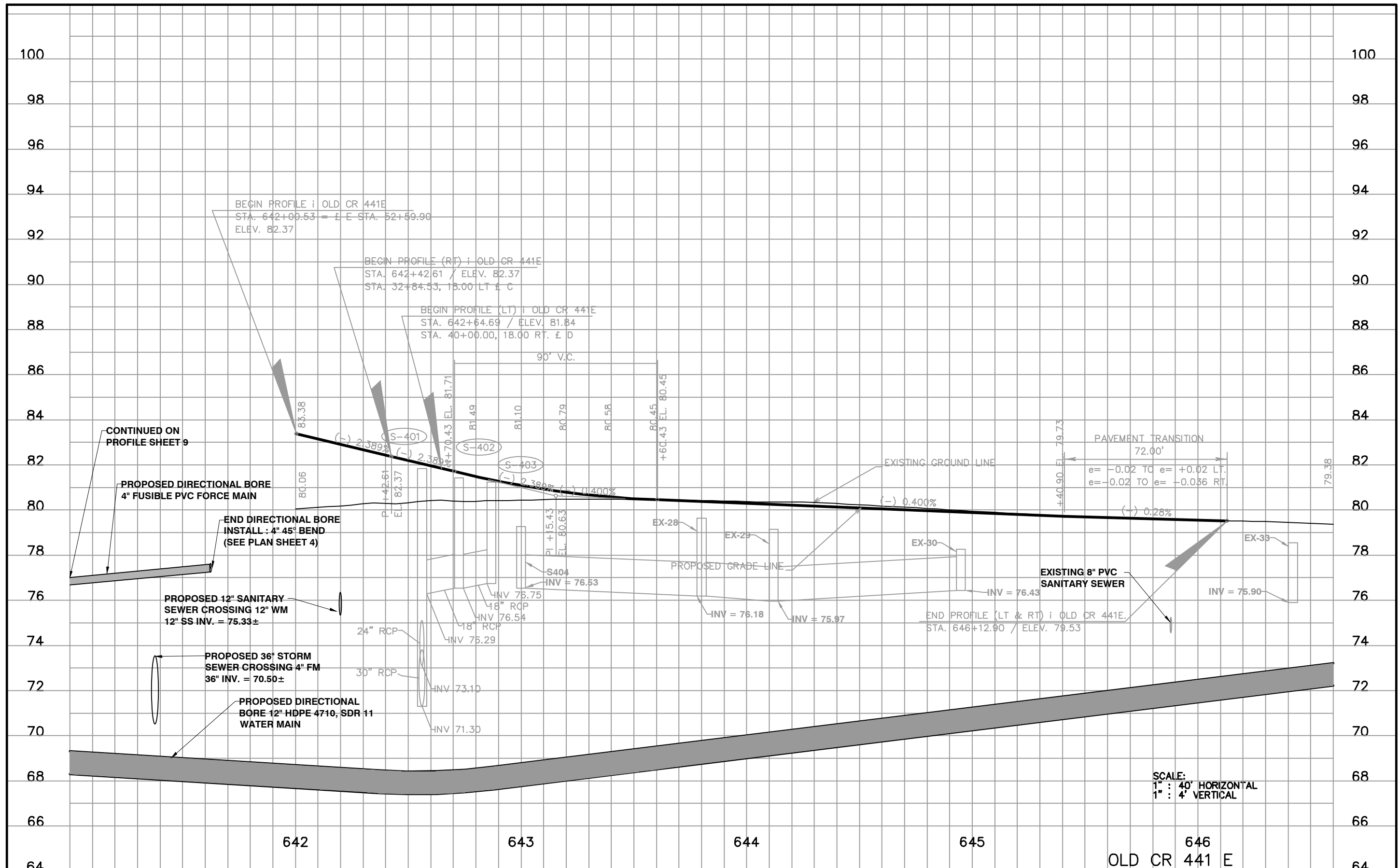
HALFF

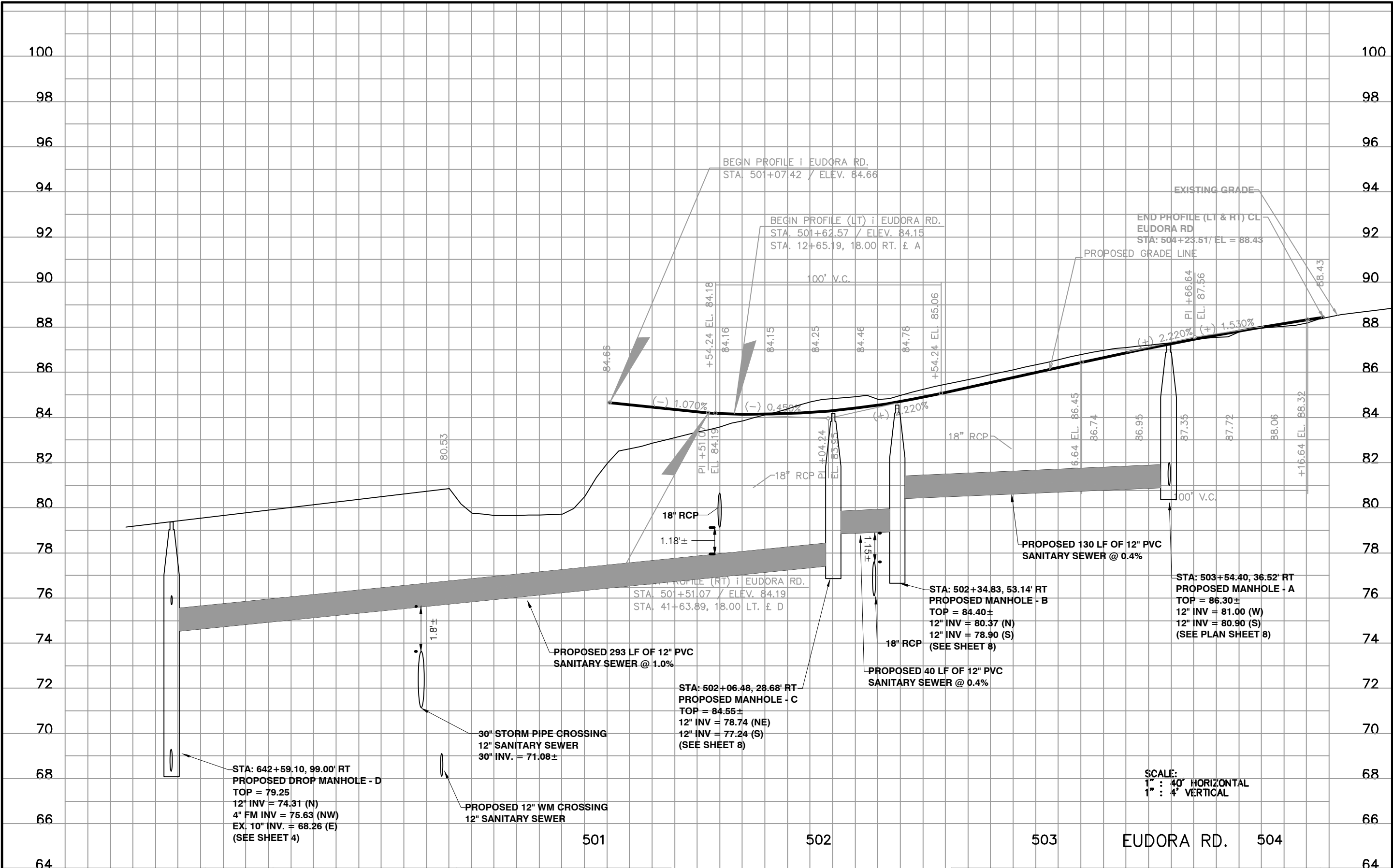
902 North Sinclair Ave.
Tavares, Florida 32778
Office: 352.343.8481
Fax: 352.343.8495
Certificate of Authorization Number: 33380

DATE: DECEMBER 2022
 BMAY UPRETI, P.E. NO. 92728

ROADWAY PROFILE

SHEET NO.
9





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

REVISIONS	DATE

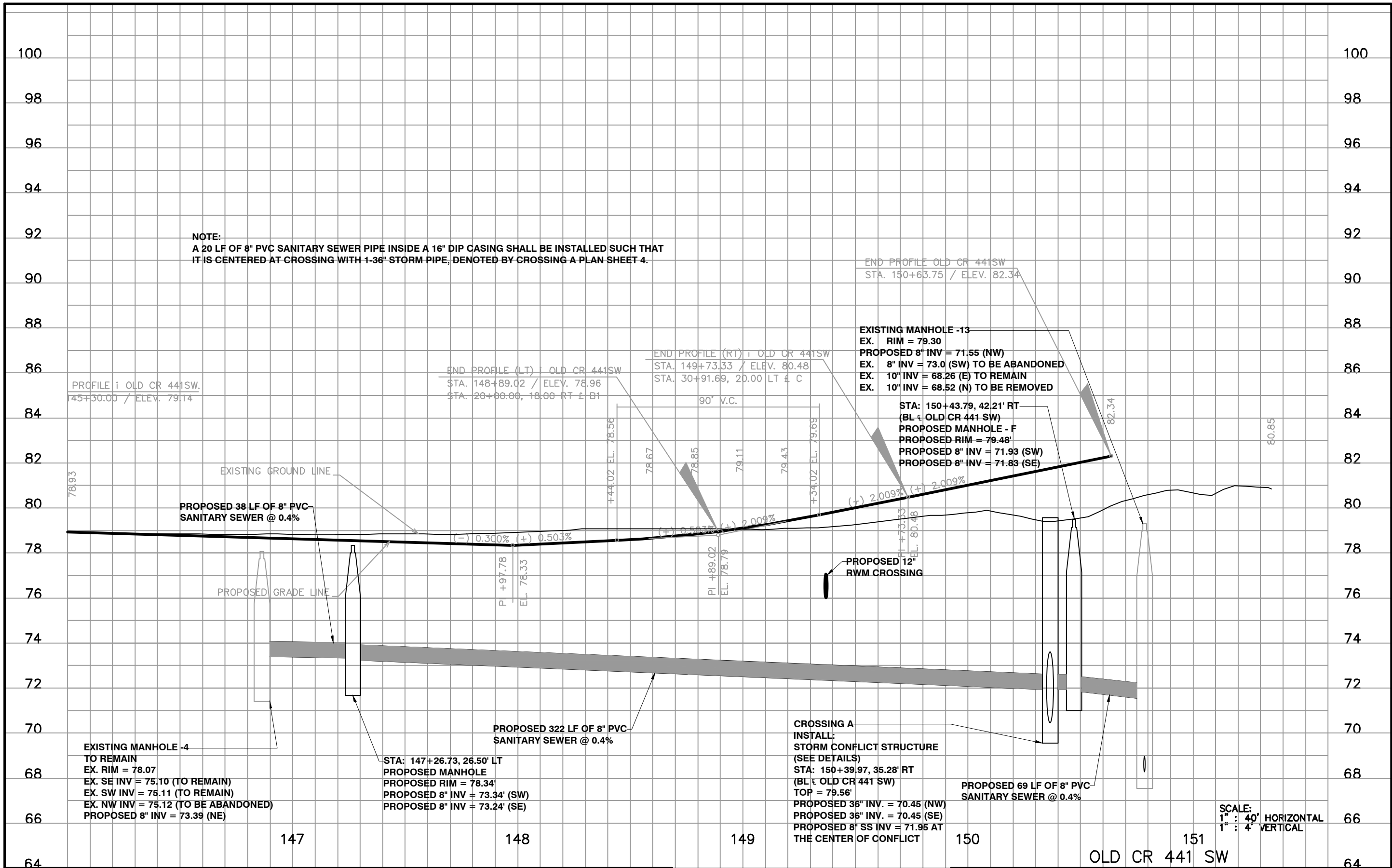


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 Certificate of Authorization Number: 33380

DATE: DECEMBER 2022
 BJAY UPRETI, P.E. NO. 92728

ROADWAY PROFILE

SHEET NO.
11



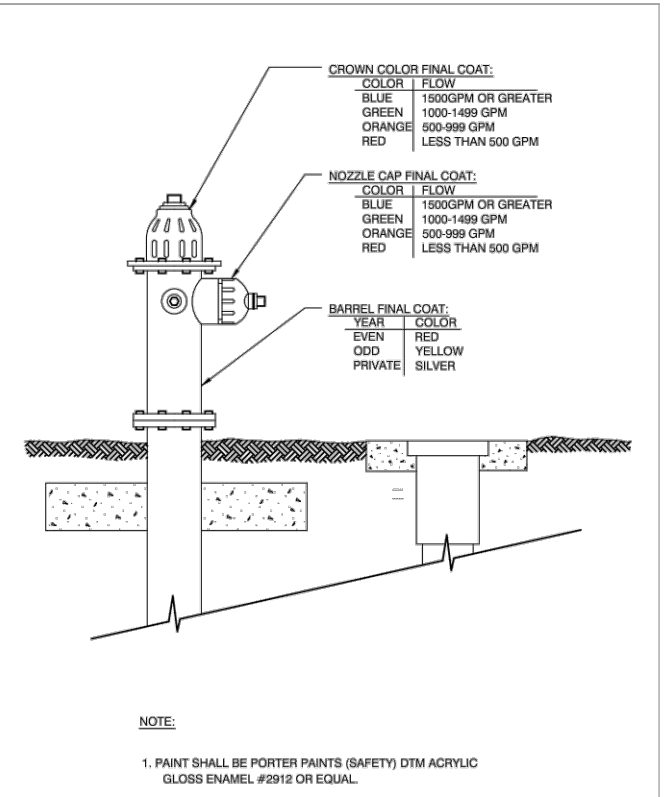
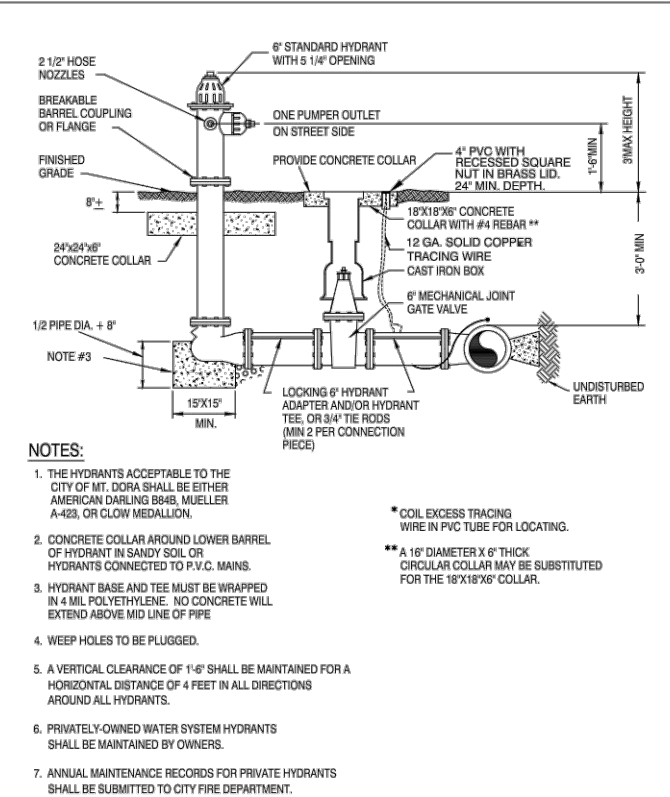
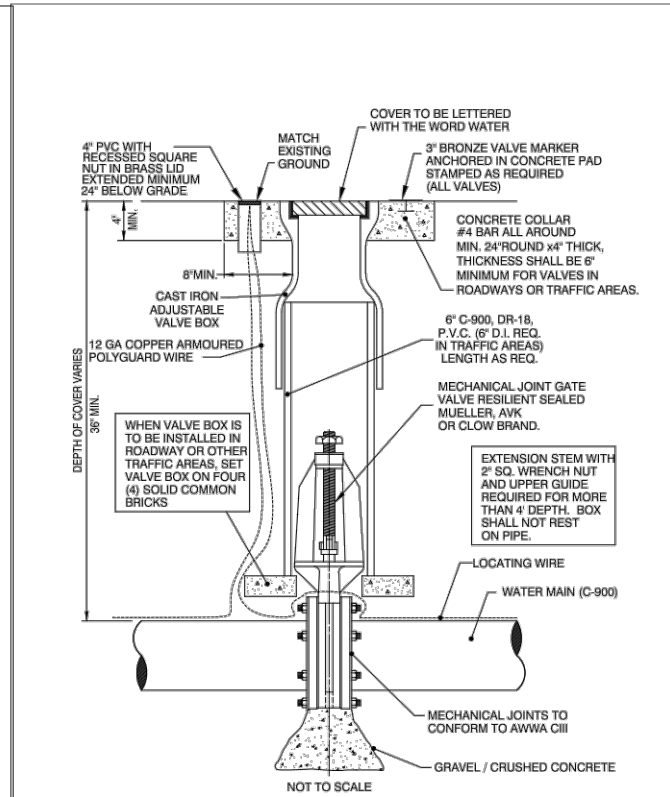
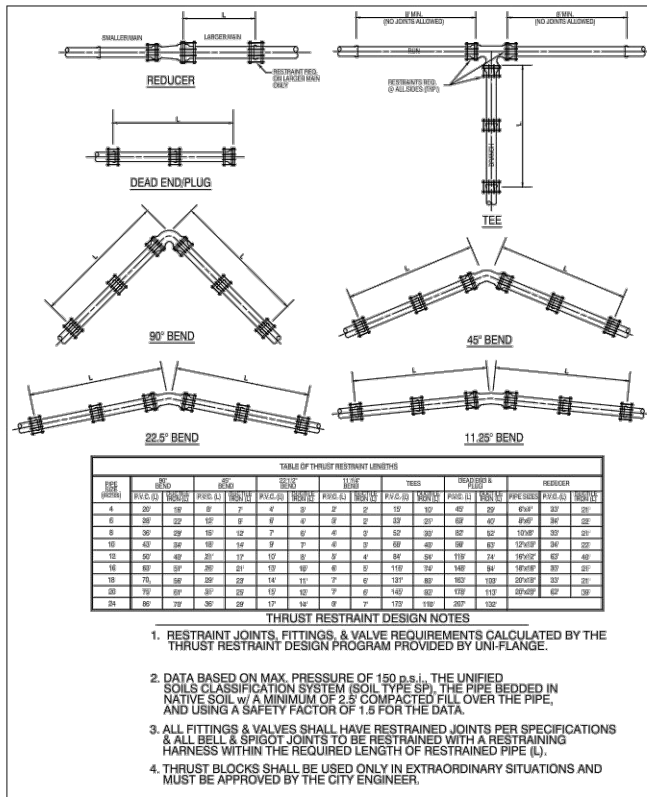
REVISIONS	DATE



DATE: DECEMBER 2022
BLUAY UPRETI, P.E. NO. 82726

ROADWAY PROFILE

SHEET NO.
12

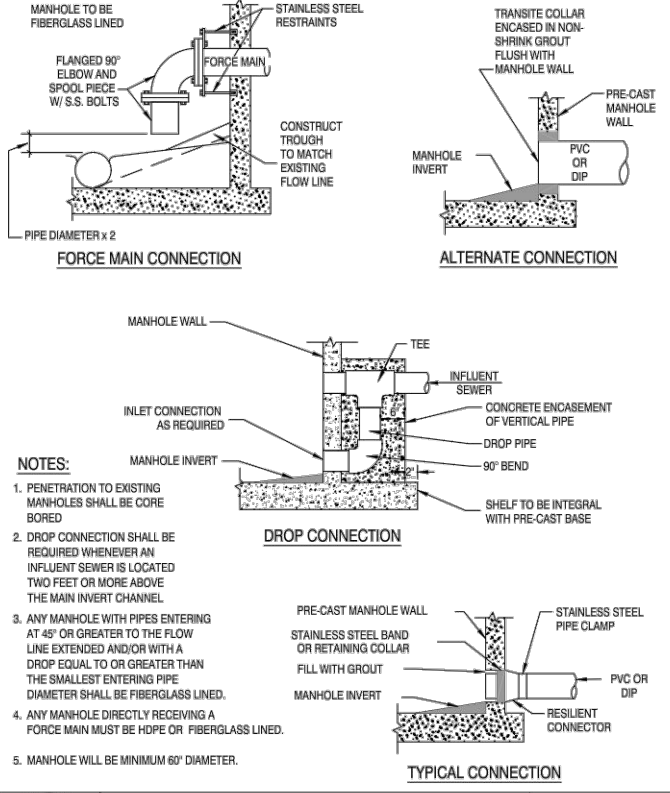
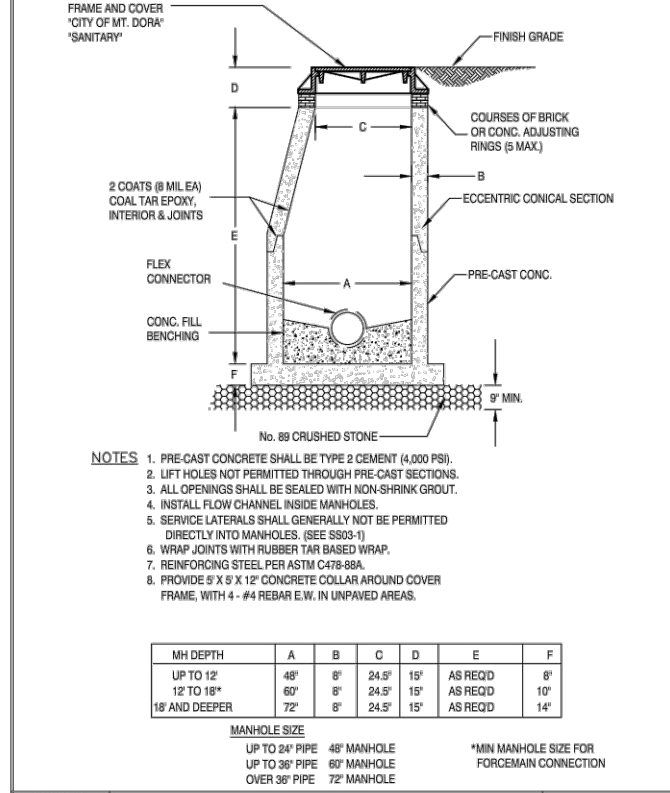
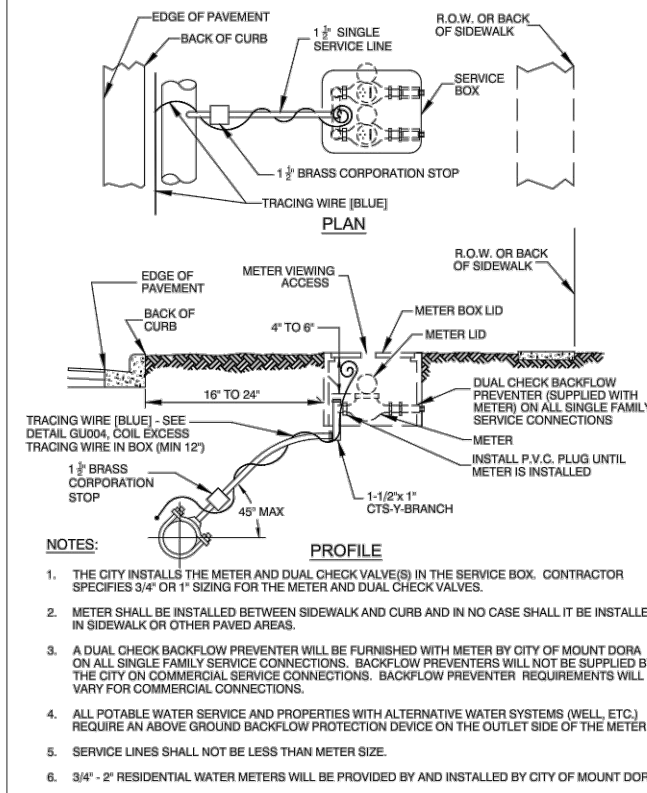


THRUST RESTRAINT DETAIL
GU0014-1
 ISSUED: 2017
 REVISED: -

GATE VALVE & BOX
PW0012-1
 ISSUED: 2017
 REVISED: -

STANDARD FIRE HYDRANT ASSEMBLY
PW002-1
 ISSUED: 2017
 REVISED: -

FIRE HYDRANT COLOR IDENTIFICATION
PW003-1
 ISSUED: 2017
 REVISED: -



**POTABLE WATER DOUBLE SERVICE CONNECTION FOR 3/4\"/>
PW005-1
 ISSUED: 2017
 REVISED: -**

STANDARD MANHOLE DETAIL
SS002-1
 ISSUED: 2017
 REVISED: -

TYPICAL MANHOLE CONNECTIONS
SS003-1
 ISSUED: 2017
 REVISED: -

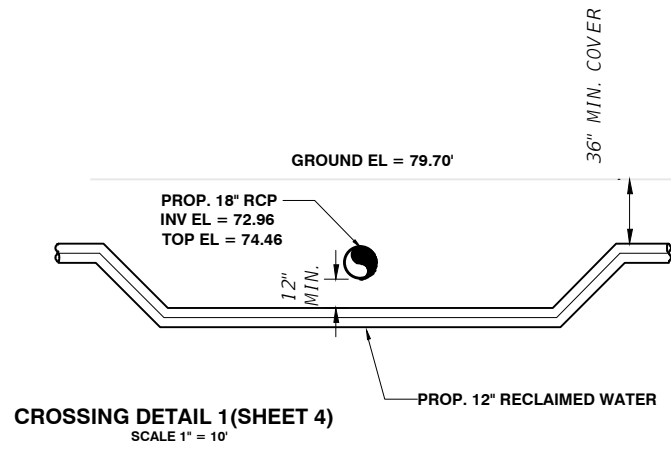
REVISIONS	DATE

CITY OF MOUNT DORA

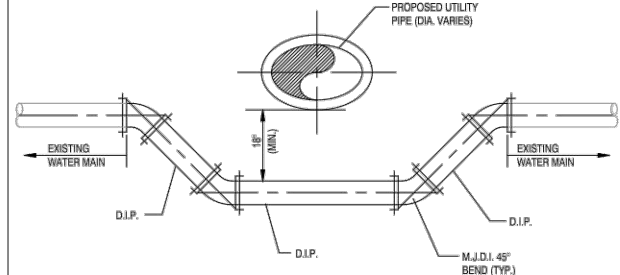
HALFF

902 North Sincclair Ave. Office: 352.343.8491
 Tavares, Florida 32778 Fax: 352.343.8495
 Certificate of Authorization Number: 33380

DATE: DECEMBER 2022
 BIJAY UPRETI, P.E. NO. 82728



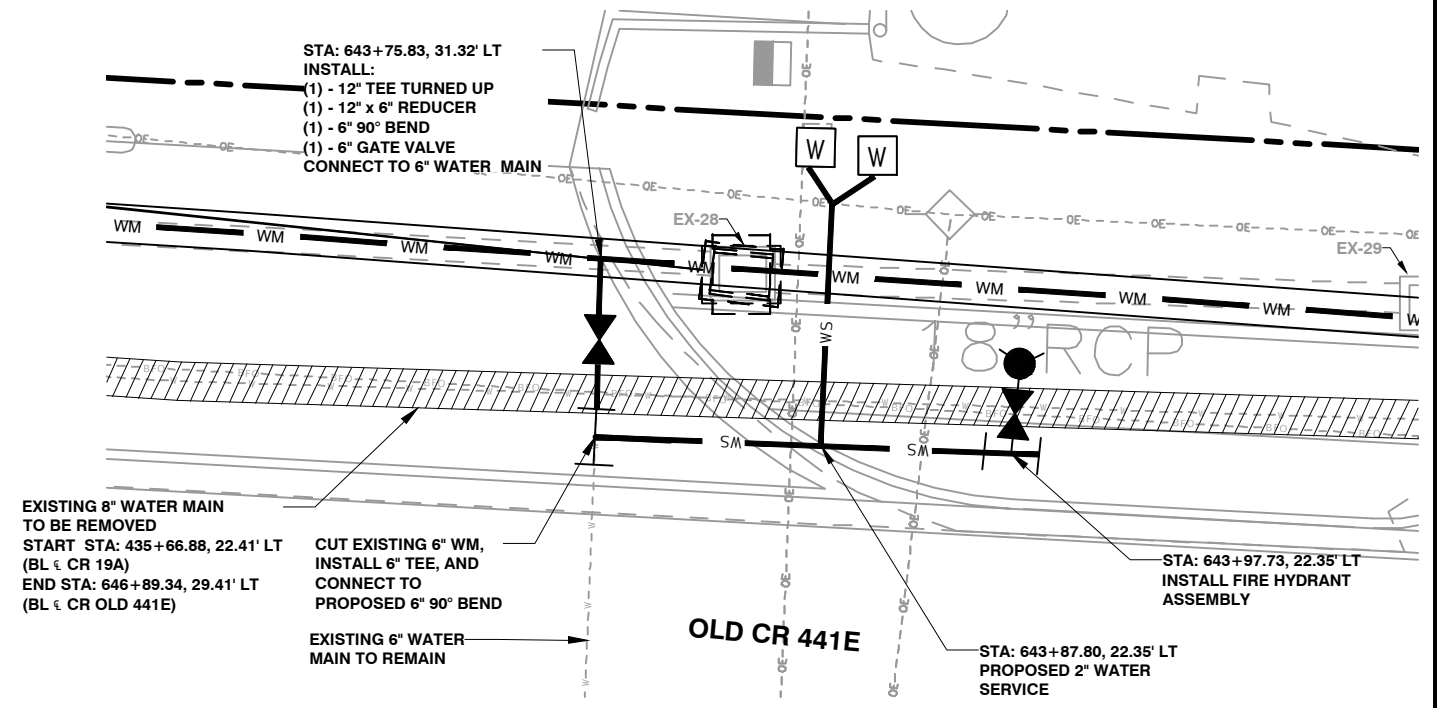
CROSSING DETAIL 1 (SHEET 4)
SCALE 1" = 10'



- NOTES:
1. ALL PROPOSED JOINTS SHALL BE RESTRAINED.
 2. ALL EXISTING JOINTS WITHIN 12" SHALL BE RESTRAINED.
 3. ALL PIPING CLEARANCES SHALL BE IN ACCORDANCE WITH CHAPTER 68-555.314 F.A.C.

WATER LINE CROSSING

GU0015-1
ISSUED: 2017
REVISED: -



BLOW UP DETAIL (SHEET 5)
SCALE 1" = 10'

NOTE:
CONTRACTOR TO REFER TO AND FOLLOW FDOT UTILITY CONFLICT THROUGH DRAINAGE STRUCTURES INDEX 425-080.

PIPE CLEARANCE

Horizontal	DETAIL OF ITEM 1 (a)	DETAIL OF ITEM 1 (b)	DETAIL OF ITEM 1 (c)
	DETAIL OF ITEM 2 (a)	DETAIL OF ITEM 2 (b)	DETAIL OF ITEM 2 (c)
Vertical	DETAIL OF ITEM 2 (a)	DETAIL OF ITEM 2 (b)	DETAIL OF ITEM 2 (c)

UTILITY SEPARATIONS

NOT TO SCALE

GU0016-1
ISSUED: 2017

GENERAL NOTES:

1. Refer to Index 425-080 and Index 425-081.
2. See Item 11 Details.
3. Maximum opening for pipe shall be the pipe size plus 6". Maximum size of pipe shall be the size of the structure.
4. If a vertical utility is located above a drainage structure, the following Florida Department of Environmental Protection (FDEP) Manual requirements for drinking water prior to considering vertical clearance shall be followed:
 - a. Place Restrictor
 - b. Installation separating overhead pipe and structure
 - c. Storm restrictor, 6" minimum diameter (6" minimum diameter) for size of restriction or separator

Restrictor shall consist of a 6" diameter restrictor pipe to be installed with a 6" diameter restrictor pipe. This pipe and restrictor shall be installed with the following details when used for storm water.

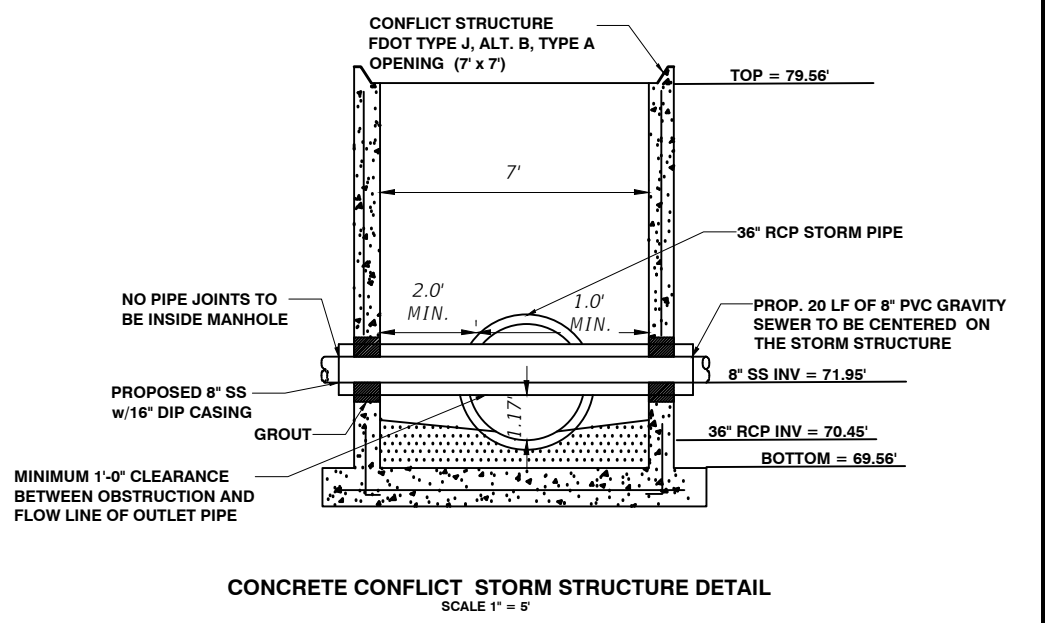
Restrictor for 6" diameter FDEP Drinking Water Restrictor: <http://www.fdot.com/transportation/constructing-water-construction-425-080-drinking-water-program>

Sheet	Description
1	General Notes and Contents
2	Utility Conflict Condition I and II Details

UTILITY CONFLICT Condition I
Structure or 180° Corner Installation

UTILITY CONFLICT Condition II
Structure or 180° Corner Installation

UTILITY CONFLICT CONDITION I AND II DETAILS



REVISIONS	DATE



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902 North Sinclair Ave.
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BIJAY UPRETI, P.E. NO. 92728

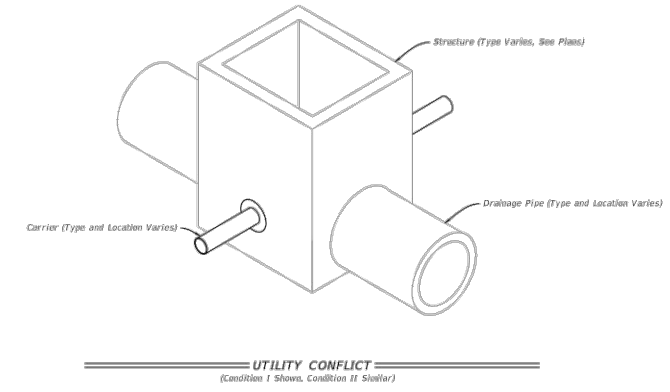
GENERAL NOTES:

1. Work with Index 425-001 and Index 425-010.
2. Use Class II Concrete.
3. Maximum opening for pipe shall be the pipe OD plus 6". Mortar used to seal the pipe into the opening will be of such mix that shrinkage will not cause leakage into or out of the structure.
4. If a conflict with a potable water supply line is discovered during construction, submit the following to Florida Department of Environmental Protection (FDEP) District Administrator For Drinking Water prior to constructing conflict structure:
 - a. Plans Resolutions
 - b. Justification describing inordinate cost and practical avoidance
 - c. Upon request, Utility Agency Dener (UAD) supporting documentation for cost of relocation or adjustment

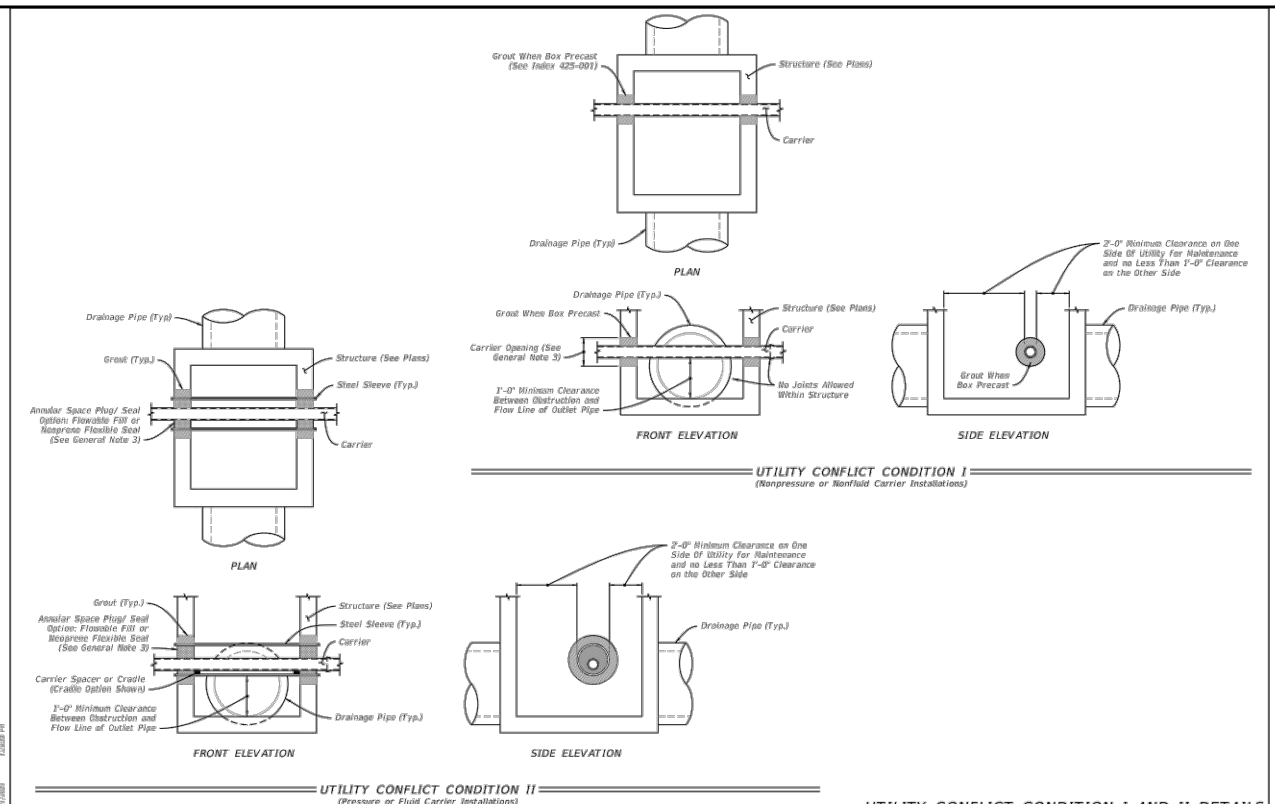
Potable water supply lines passing through a drainage structure must be in compliance with Chapter 62-555.314(9) F.A.C. This Index and rule citation provide accepted methods for addressing conflicts when they cannot be reasonably avoided.

Website for District FDEP Drinking Water Contact:
<https://floridadep.gov/water/source-drinking-water/contact-for-organization-drinking-water-program>

TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Utility Conflict Condition I and II Details

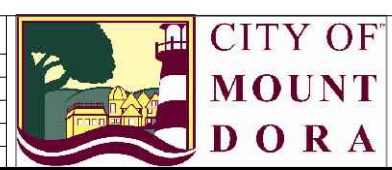


LAST REVISION 11/01/20	DESCRIPTION:	FY 2022-23 STANDARD PLANS	UTILITY CONFLICT THRU DRAINAGE STRUCTURES	INDEX 425-080	SHEET 1 of 2
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LAST REVISION 11/01/20	DESCRIPTION:	FY 2022-23 STANDARD PLANS	UTILITY CONFLICT THRU DRAINAGE STRUCTURES	INDEX 425-080	SHEET 2 of 2
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REVISIONS	DATE



DATE: DECEMBER 2022
 BIJAY UPRETI, P.E. NO. 92728

FDOT INDEX 425-080

SHEET NO.
15