

CONSTRUCTION PLANS



US HWY 27 MAIN UPGRADE (CR 48 TO HIGHLAND LAKES)

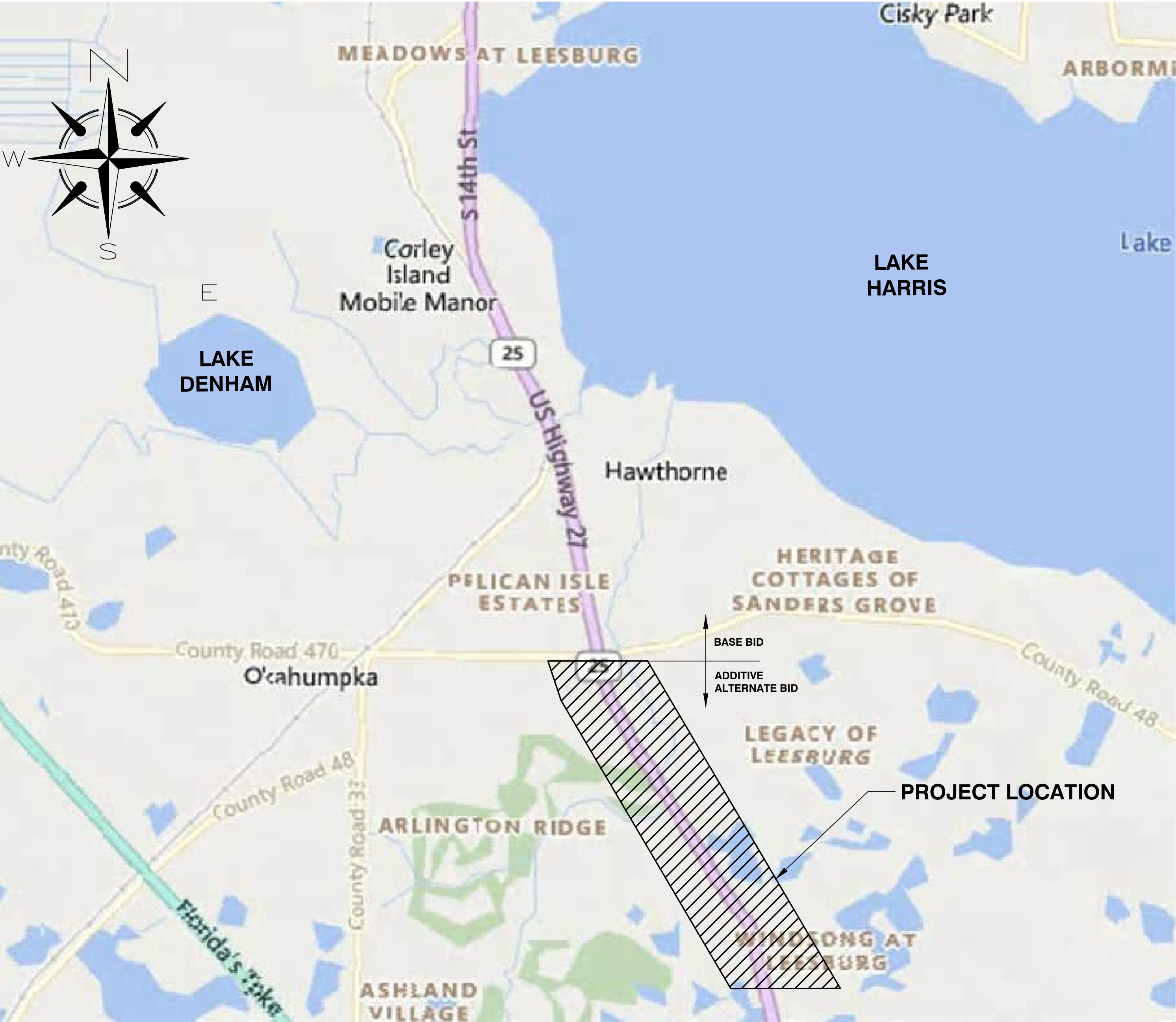
LEESBURG, LAKE COUNTY, FLORIDA

DATE	ISSUE	BY

Michael C. Scullion, P.E., State of Florida, Professional Engineer, License No. 70753

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VICINITY MAP
1" = 2000'

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Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!



Original Document Size 24"x36"
0 1 2 3 4 5
(Inches)

JIMMY BURRY
MAYOR
DISTRICT 5

ALLYSON BERRY
COMMISSIONER
DISTRICT 1

ALAN REISMAN
COMMISSIONER
DISTRICT 2

JAY CONNELL
MAYOR PRO-TEM
DISTRICT 3

MIKE PEDERSON
COMMISSIONER
DISTRICT 4

AL MINNER
CITY MANAGER

CLIFF KELSEY
DIRECTOR OF PUBLIC WORKS

OWNER/DEVELOPER
CITY OF LEESBURG
550 SOUTH 14TH STREET
LEESBURG, FLORIDA 34748
CLIFF KELSEY, DIRECTOR OF PUBLIC WORKS
PHONE: (352) 728-9786
CLIFF.KELSEY@LEESBURGFLORIDA.GOV

ENGINEER:
HALFF ASSOCIATES, INC.
902 SINCLAIR AVENUE
TAVARES, FL. 32778
MICHAEL C. SCULLION, P.E.
(352) 343-8481
MSCULLION@HALFF.COM

SURVEYOR:
HALFF ASSOCIATES, INC.
902 SINCLAIR AVENUE
TAVARES, FL. 32778
JOHN T. MCGLOHORN, PSM
(352) 343-8481



Michael C. Scullion, P.E., State of Florida, Professional Engineer, License No. 70753

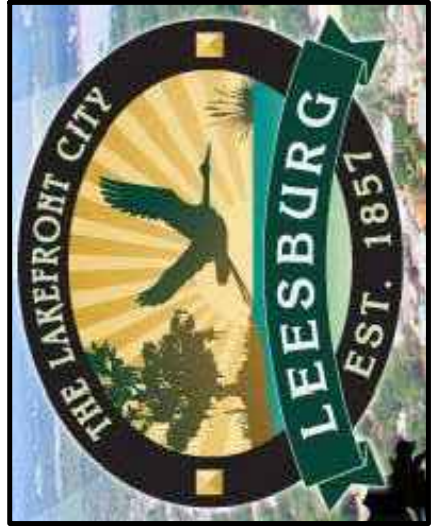
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DATE	REVISION									
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CITY OF LEESBURG, FLORIDA
US HWY 27 MAIN UPGRADE
(CR 48 TO HIGHLAND LAKES)

KEY MAP & GENERAL NOTES



haff

902 North Sinclair Ave.
Tavares, Florida 32778
Office: 352.343.8481
Fax: 352.343.8495
Certificate of Authorization Number: 33360

DATE:	JANUARY 2024
DESIGNED BY:	CLM
DRAWN BY:	CLM
CHECKED BY.:	MCS
JOB NO.:	047548.001
FILE NAME:	US 27 Watermain A
Sheet G-1	

Michael C. Scullion, P.E.
Registered Eng 70753

GENERAL NOTES

LEGEND

SANITARY SEWER LINE CROSSING CONFLICT

STORM DRAIN LINE CROSSING CONFLICT

GAS LINE CROSSING CONFLICT

WATER LINE CROSSING CONFLICT

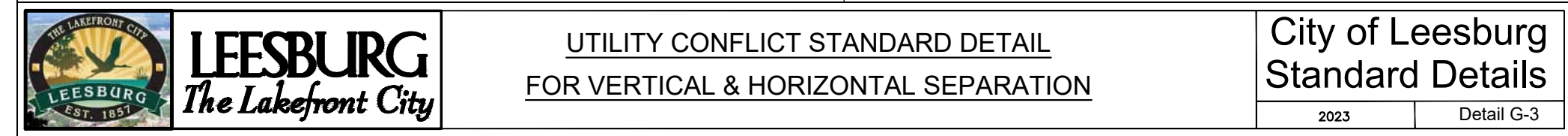
*INSTALL CONFLICT CROSSING, PER LEESBURG DETAIL G-3, W-17 AT ALL MARKED CONFLICT AREAS

- ALL CONSTRUCTION SHALL CONFORM TO LAKE COUNTY, FDOT AND THE CITY OF LEESBURG STANDARDS.
- THE CONTRACTOR SHALL ENSURE ALL NECESSARY PERMITS ARE IN HAND BEFORE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING ALL REQUIREMENTS OF REGULATORY AGENCY PERMITS IN REGARD TO CONSTRUCTION ACTIVITIES AND CONDITIONS STATED THEREIN.
- UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, ALL ITEMS NOTED TO BE REMOVED SHALL REMAIN THE PROPERTY OF CITY OF LEESBURG (OWNER). ALL ITEMS REMOVED SHALL BE STORED BY THE CONTRACTOR ON-SITE AS DIRECTED BY THE OWNER OR ENGINEER.
- LIMITS OF CONSTRUCTION FOR THIS PROJECT SHALL BE THE AREA SHOWN WITHIN THE PROPERTY BOUNDS. IF PERMITTED BY THE OWNER, SPOIL AREAS SHALL BE AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL EXISTING UTILITIES SHOWN AND NOT SHOWN PRIOR TO ANY CONSTRUCTION. ANY CONFLICTS OR DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- NO DEVIATIONS FROM THESE PLANS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL REPLACE ALL PAVING, SODDING, STABILIZED EARTH, LANDSCAPING, DRIVEWAYS, SIDEWALKS, IRRIGATION SYSTEMS, UNDERGROUND PIPING, ETC., DISTURBED OR DAMAGED BY THE CONSTRUCTION. THE CONTRACTOR SHALL REPLACE WITH EQUAL MATERIAL OR AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL TAKE CARE TO PROVIDE PROPER GRADE, ELEVATIONS AND ALIGNMENT FOR PROPOSED CONNECTIONS AS SHOWN ON THE DRAWINGS.
- UTILITY SEPARATION SHALL BE AS REQUIRED IN CHAPTER 62-555.314 F.A.C.
- WHERE MINIMUM SEPARATIONS BETWEEN UTILITIES IS REQUIRED, THE DISTANCE MEASURED IS FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- WHERE A CONNECTION IS TO BE MADE IN THE FIELD TO AN EXISTING PIPE, THE CONTRACTOR WILL EXCAVATE THE AREA TO VERIFY THE TYPE OF PIPE AND THE PIPE SIZE, AND OBTAIN THE OWNER'S APPROVAL OF THE PROPOSED METHOD OF CONNECTION PRIOR TO ORDERING AND INSTALLING MATERIALS.
- ALL WATER OR SEWER SERVICE CONNECTIONS, INTERRUPTIONS OR RELOCATIONS SHALL

- BE COORDINATED IN ADVANCE WITH FIELD REPRESENTATIVES OF CITY OF LEESBURG.
- CONTRACTOR SHALL CONNECT ALL EXISTING WATER SERVICES, EXISTING METER BOXES, AND BACK FLOW PREVENTERS TO PROPOSED WATER MAIN.
 - ALL PIPING AND/OR APPURTENANCES CONNECTING TO ADJACENT CONSTRUCTION SHALL BE PLUGGED IF ADJACENT WORK HAS NOT BEEN COMPLETED.
 - IN THE EVENT THAT THE POTABLE WATER SYSTEM IS CONTAMINATED (I.E., WATER DOES NOT MEET FEDERAL AND STATE REQUIREMENTS) DUE TO CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE, UNDER THE DIRECTION OF THE OWNER, OR STATE AND LOCAL REGULATORY AGENCY FOR CORRECTING ANY SUCH CONTAMINATION PROBLEM INCLUDING DISINFECTION, TESTING AND OTHER CORRECTIVE ACTION.
 - THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AT ALL INTERSECTIONS OF PROPOSED WORK AND EXISTING UTILITIES. THE EXPLORATORY EXCAVATIONS SHALL BE MADE 48 HOURS OR 1,000 FEET IN ADVANCE OF THE WORK, WHICHEVER IS GREATER. IF THERE IS A POTENTIAL CONFLICT, THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY. INFORMATION ON THE OBSTRUCTION TO BE FURNISHED BY THE CONTRACTOR SHALL INCLUDE: LOCATION, ELEVATION, UTILITY TYPE, MATERIAL AND SIZE.
 - THE CONTRACTOR PRIOR TO EXCAVATING IN THE VICINITY OF A GAS PIPELINE SHALL NOTIFY THE GAS UTILITY OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF FLORIDA STATUTES, PROTECTION OF UNDERGROUND PIPELINES, F.S. 553.851, CH. 77-143.
 - THE SHOWN LOCATIONS OF RIGHTS-OF-WAY AND UTILITIES ARE APPROXIMATE. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EXACTLY LOCATE ALL RIGHTS-OF-WAY AND UTILITY LINES IN THE CONSTRUCTION AREA PRIOR TO EXCAVATION. ANY DAMAGE TO ANY EXISTING UTILITY, STRUCTURE OR SERVICE SHALL BE REPAIRED, AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE RESPECTIVE UTILITY OWNER.
 - TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AS PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITIONS. CONTRACTOR SHALL PROVIDE TO FDOT PROPOSED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH FDOT STANDARD PLANS 102-600, 102-601, AND 102-604 PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL FOLLOW FDOT STANDARD PLANS 102-660 FOR PEDESTRIAN CONTROL ASSOCIATED WITH THE PROPOSED CLOSURE AND CONSTRUCTION OF SIDEWALK. CONTRACTOR SHALL PROVIDE TO FDOT PROPOSED PEDESTRIAN TRAFFIC CONTROL PLAN PRIOR TO CONSTRUCTION.
 - WITHIN SR RIGHT OF WAY, ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN COMPLIANCE WITH THE 2023-2024 STANDARD PLANS, 2023-2024 STANDARD SPECIFICATIONS

- AND 2017 UTILITY ACCOMMODATION MANUAL.
- ALL PROPOSED CURBS AND CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARD PLANS 520-001 AND 522-002, RESPECTIVELY.
 - REMOVAL OF TREES GREATER THAN 4-INCH BASAL DIAMETER SHALL BE ONLY AS DIRECTED BY THE OWNER/ENGINEER. CONTRACTOR SHALL LIMIT TO A MINIMUM THE AMOUNT OF TREE REMOVAL, CLEARING AND GRUBBING REQUIRED BY TRIMMING TREES WHEREVER POSSIBLE.
 - CONTRACTOR SHALL NOTIFY AND COORDINATE WITH AFFECTED PROPERTY OWNERS AND OWNER/ENGINEER ONE WEEK IN ADVANCE OF TREE CLEARING AND GRUBBING. ALL DEBRIS FROM TREE CLEARING AND GRUBBING SHALL BE REMOVED.
 - ALL EXISTING PROPERTY, FENCING, DRIVEWAYS, PIPING, SIDEWALKS, SIGNS AND OTHER ITEMS SHALL BE RESTORED TO ORIGINAL LINE AND GRADE UNLESS APPROVED BY THE ENGINEER. ACCESS TO ADJOINING PROPERTY ALONG THE PROPOSED ROUTE SHALL BE MAINTAINED AT ALL TIMES.
 - CONTRACTOR TO SUBMIT COPIES OF ALL TESTING REPORTS TO THE OWNER AND ENGINEER FOR ACCEPTANCE AND CERTIFICATION.
 - EARTHWORK, PAVEMENT AND CONCRETE CONSTRUCTION NOT SPECIFICALLY ADDRESSED BY THE CITY LDC, SHALL BE CURRENT FISCAL YEAR 2023-2024 FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. <https://www.fdot.gov/design/standardplans/current/default.shtm>.
 - COPIES OF ALL MATERIALS AND COMPACTION TESTING PER THE LATEST EDITION FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MUST BE PROVIDED BY THE CONTRACTOR TO THE CITY PRIOR TO CLOSEOUT.
 - CONTRACTOR SHALL PROVIDE AN EMERGENCY CONTACT NUMBER LIST FOR KEY SITE PERSONNEL.
 - 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 STANDARD C651 AND CHAPTER 62-555 FLORIDA ADMINISTRATIVE CODE.
 - CONTRACTOR SHALL PIG ALL LINES PRIOR TO SERVICE.
 - ALL PIPE SHALL BEAR THE "NSF" SEAL FOR POTABLE WATER.
 - DEPTH OF WATER LINES TO BE MIN. 36" BELOW FINISHED GRADE.

- PIPING BELOW SHALL UTILIZE RESTRAINED MECHANICAL JOINT CONNECTIONS, AND BE RESTRAINED IN ACCORDANCE WITH THE ATTACHED THRUST RESTRAINT TABLE.
- WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4" OR LARGER, PIPES 3" OR SMALLER SHALL BE POLY TUBING. ALL COUPLINGS COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION, SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S LATEST RECOMMENDATIONS.
- WATER MAINS CROSSING UNDERNEATH ROADWAYS SHALL BE INSTALLED VIA DIRECTIONAL BORE AND SHALL BE CONSTRUCTED OF PE 4710, SDR 11. DIRECTIONAL BORES WITHIN FDOT RIGHT OF WAY SHALL CONFORM TO THE SPECIFICATIONS OUTLINED IN SECTION 3.16.9 OF THE 2017 FDOT UTILITY ACCOMMODATION MANUAL (UAM).
- ALL PROPOSED PIPE UNDER ASPHALT ROADWAY SHALL BE DUCTILE IRON, EXCEPT DIRECTIONAL BORES.
- CONTRACTOR SHALL PROVIDE TEMPORARY THRUST RESTRAINT, BRACING, TEST PLUGS AND/OR OTHER DEVICES NECESSARY TO SUCCESSFULLY COMPLETE PRESSURE TESTING OF ALL PRESSURE PIPING SYSTEMS.
- ALL BURIED PIPING SPECIFIED TO BE PRESSURE TESTED, EXCEPT FLANGED, WELDED, OR SCREWED PIPING, SHALL BE PROVIDED WITH RESTRAINING DEVICES AT ALL DIRECTION CHANGES, UNLESS OTHERWISE NOTED. SEE THRUST RESTRAINT SPECIFICATION DETAILS AND NOTES.
- AIR RELEASE VALVES SHALL BE PLACED AT HIGH POINTS OF THE TRANSMISSION MAIN TO PERMIT ESCAPE OF TRAPPED AIR. THE VALVE SIZE, LOCATIONS AND METHOD OR INSTALLATION SHALL BE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- ALL NEW FIRE HYDRANTS TO BE EQUIPPED WITH STORZ FIRE DEPARTMENT CONNECTIONS PER THE CITY OF LEESBURG MANUAL OF STANDARDS.
- CONTRACTOR SHALL REMOVE FIRE HYDRANTS AND CAP EXISTING LINES.
- NO EXISTING FIRE HYDRANTS TO BE REMOVED FROM SERVICE UNTIL SUCH TIME AS NEW FIRE HYDRANTS HAVE BEEN PLACED ONLINE AND CLEARED FOR SERVICE.
- UPON SYSTEM CLEARANCE, CONTRACTOR TO FLUSH ALL FIRE HYDRANTS FOR FLOW AND PRESSURE, PAINT BONNETS APPROPRIATE COLOR BASED UPON FLOW TEST RESULTS, AND PROVIDE WRITTEN REPORTS OF FLOW TESTS TO CITY UTILITY AND FIRE DEPARTMENTS. CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH BOTH CITY DEPARTMENTS AND COORDINATE THEIR AVAILABILITY TO WITNESS SAID TESTING.



(1) Water main should cross over other pipe. When water main must be below other pipe, the minimum separation is 12 inches.

(2) Reclaimed water regulated under Part III of Chapter 62-010, F.A.C.

(3) 1. For gravity sewer lines where the bottom of the water main is laid at least 6 inches above the top of the gravity sewer.

(4) Reclaimed water not regulated under Part III of Chapter 62-010, F.A.C.

(5) If watermain is less than 18" above standing or storm sewer, sewer or sewerage forceman pipe at a crossing, then center sewer line shall be part of 30" or crossing.

(6) All piping clearances shall be in accordance with chapter 62-555.314, c. 62-604.400 and 62-610.460

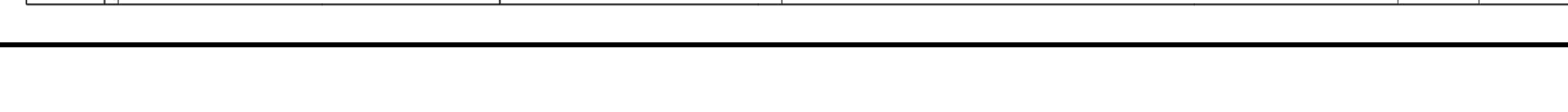
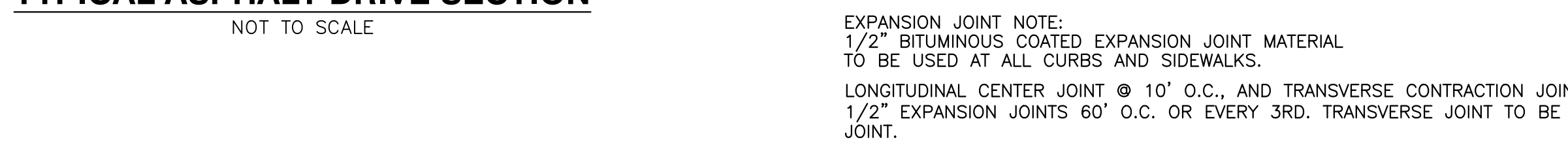
(7) Do not encase piping in concrete unless specifically authorized.

(8) All piping shall clear other construction by 6" minimum.

LOCATION OF PUBLIC WATER SYSTEM MAINS

IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Disclaimer: This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314, c. 62-604.400 and 62-610.460 for additional information.



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1. WATER SYSTEM 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.
2. ALL PIPING SHALL BEAR THE "NSF" SEAL FOR POTABLE WATER.
3. WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4"-12". PIPES 14" OR LARGER SHALL BE AWWA C-905, DR 18. ALL COUPLINGS, COMPOUNDS, SOLVENTS, LUBRICANTS AND PIPE PREPARATION, FOR LAYING, SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURERS LATEST RECOMMENDATIONS.
4. DEPTH OF WATER MAINS TO BE 36" MINIMUM BELOW FINISHED GRADE TO TOP OF PIPE.
5. WATER MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. ALL PIPING CLEARANCES SHALL BE IN ACCORDANCE WITH FAC 62-555.314, 62-604.400, 62-610.489, AND APPROVED BY THE CITY.
7. ALL WATER MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON AND SHALL EXTEND 5' BEYOND THE BACK OF CURB, EXCEPT DIRECTIONAL BORES, WHICH SHALL BE SDR-11 HDPE.
8. ALL SLEEVES UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE BACK OF CURB.

** NOTE: MARK ALL POINTS WHERE WATER SERVICES CROSS CURB WITH A "W" MARK IN CONCRETE.

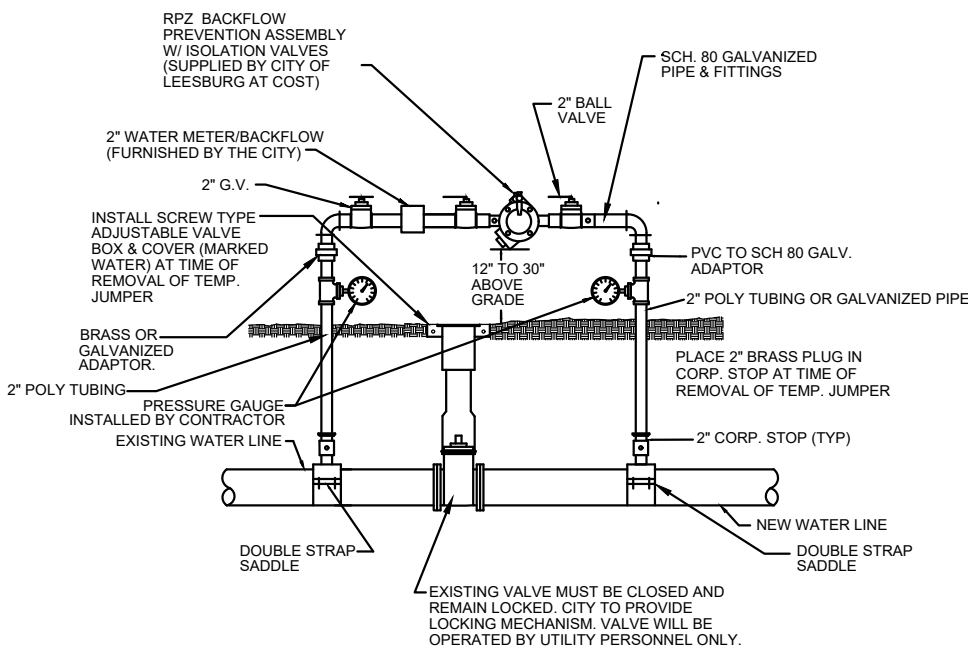
WATER GENERAL NOTES



LEESBURG
The Lakefront City

City of Leesburg
Standard Details
2023
Detail W-1

NOTE: LOCATION TO BE DETERMINED AT TIME OF PRECONSTRUCTION CONFERENCE W/ CITY.



** NOTE:
JUMPER/CONSTRUCTION METER MAY BE STAND MOUNTED BY THE CITY OF LEESBURG

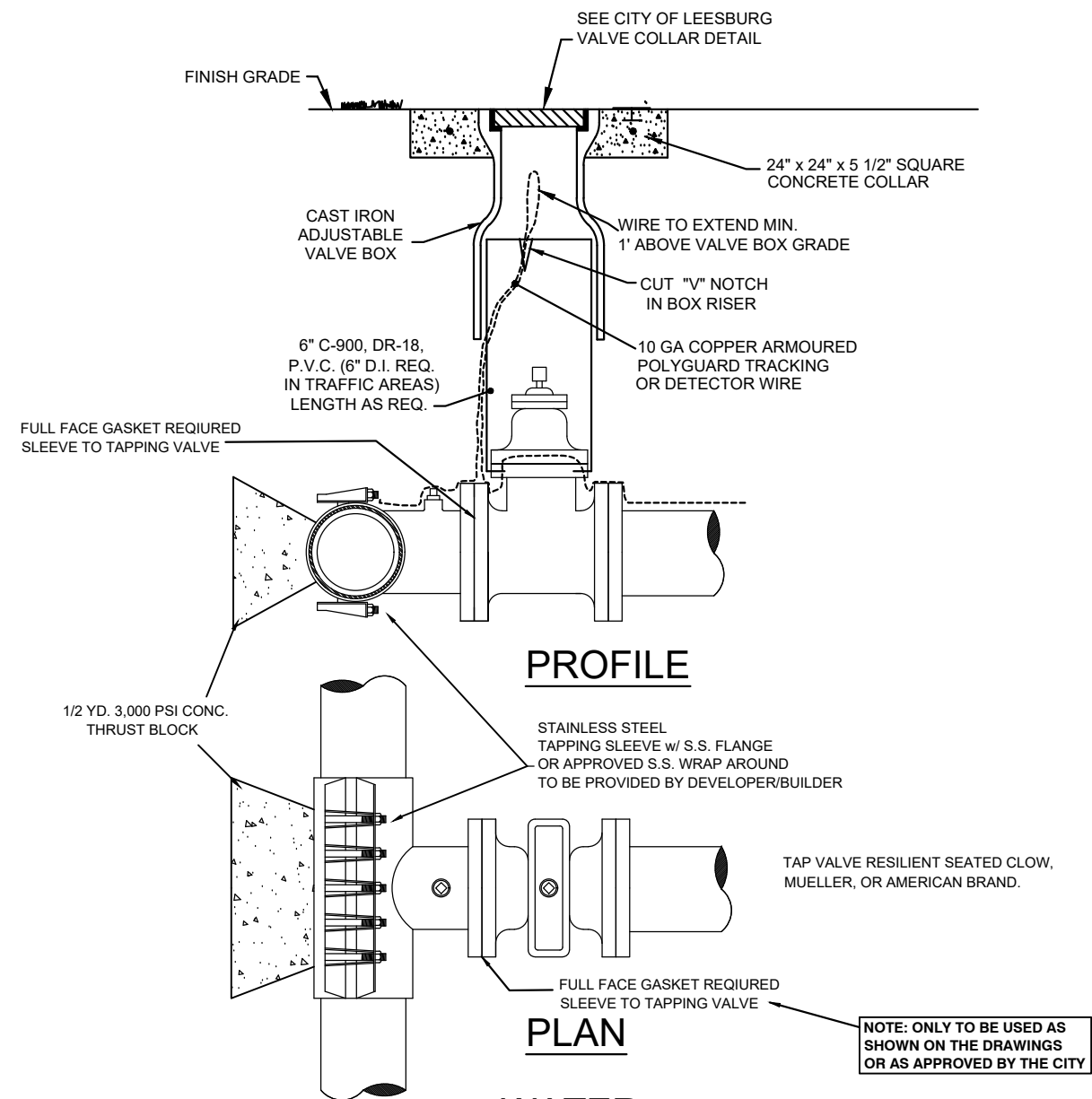
WATER TEMPORARY JUMPER CONNECTION DETAIL

NOT TO SCALE



LEESBURG
The Lakefront City

City of Leesburg
Standard Details
2023
Detail W-7



WATER WET TAP SLEEVE & TAP VALVE

NOT TO SCALE



LEESBURG
The Lakefront City

City of Leesburg
Standard Details
2023
Detail W-2

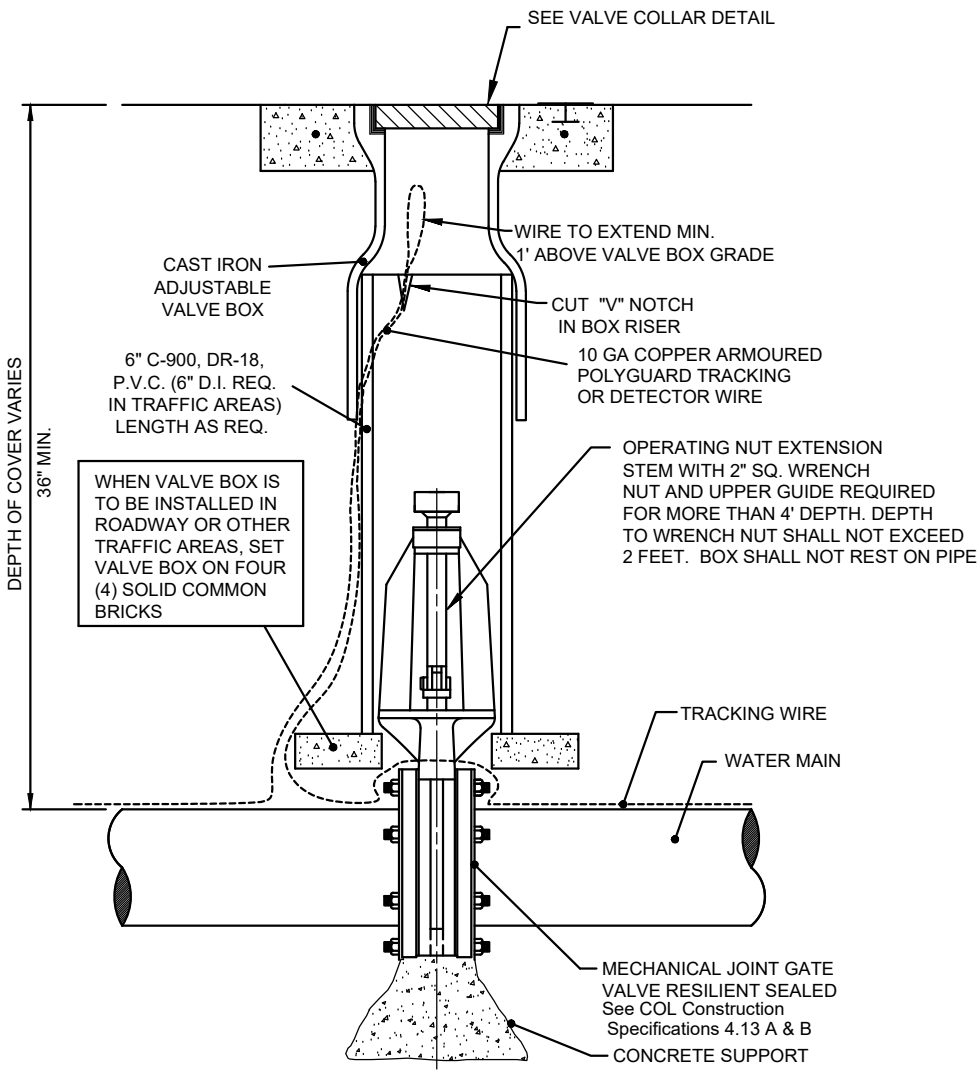
1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.
2. JUMPER / CONSTRUCTION METER WILL BE SET BY WATER DEPARTMENT STAFF AND WILL TAKE A MINIMUM OF 7 BUSINESS DAYS TO SET LOCATIONS FOR THE ACCOUNT.
3. THE DETAIL IS TO BE USED FOR FILLING ANY WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 36" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED. THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS ALL THE TIME AFTER DISINFECTION AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED. ADEQUATE THROST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED, PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C601, 1992 EDITION. THIS TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABING PER SECTION II OF AWWA C601-92.
4. FLUSHING OF 10" DIAMETER AND LARGE WATER MAINS MAY BE DONE THROUGH THE TIE-IN VALVE, IN THE PRESENCE OF THE UTILITY DEPART. THE UTILITY DEPARTMENT WILL BE NOTIFIED IN WRITING 48 HOURS PRIOR TO THE FLUSHING OF SAID MAINS.
THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
 - A. THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF THE UTILITY COMPANY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO THE TIE-IN VALVES WHICH ARE NOT WATER TIGHT SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE.
 - B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN AND FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT.
 - FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAIN.
 - ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO OPENING THE TIE-IN VALVE.
 - PROVIDE FOR AND MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 psi.
 - TIE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY, ENSURING A PRESSURE DROP ACROSS THE VALE IS ALWAYS GREATER THAN 20 psi.
 - C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE CITY UNTIL FLUSHING BEGINS.
 - D. THE TIE-IN VALVE SHALL BE OPENED ONLY A FEW TURNS FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DIRECTED BY THE CITY AND OBSERVED BY THE ENGINEER.
 - E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSED POSITION BY THE CITY.
5. EXCEPT AS REQUIRED TO FLUSH LINES OF GREATER THAN 8" IN DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE CITY. THE TIE-IN VALVE SHALL REMAIN CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY FDEP AND ALL OTHER PERTINENT AGENCIES.
6. UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.
7. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE FITTINGS, VALVE, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. DAMAGE / REPLACEMENT COST MAY EXCEED \$2,000.00 FOR LOST, DAMAGED OR STOLEN JUMPER / CONSTRUCTION METER ASSEMBLIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPLACEMENT COST.
9. CONNECTION METERS MAY BE SUITED FOR JUMPER AND CONSTRUCTION WATER IF RPZ BACKFLOWS ARE INSTALLED PER EACH APPLICATION.
10. CONTACT CITY WATER DEPARTMENT FOR PROCUREMENT / PROCEDURE AT 352-728-3835.

WATER TEMPORARY JUMPER CONNECTION NOTES



LEESBURG
The Lakefront City

City of Leesburg
Standard Details
2023
Detail W-8



WATER GATE VALVE & BOX

NOT TO SCALE



LEESBURG
The Lakefront City

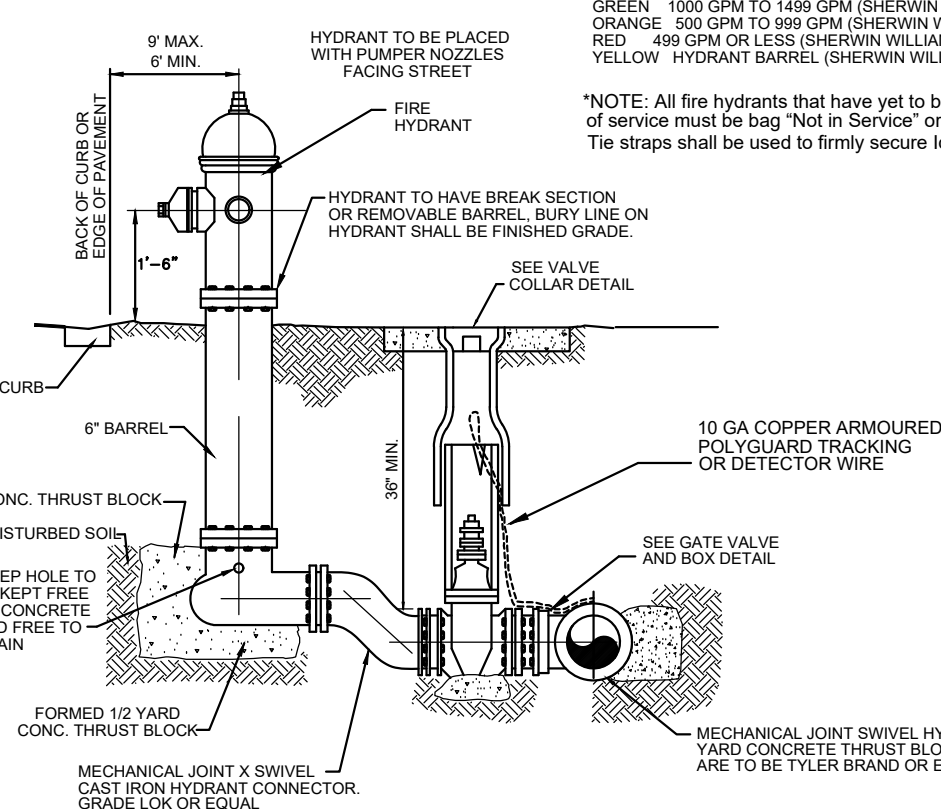
City of Leesburg
Standard Details
2023
Detail W-3

SPECIFICATIONS

*NOTE: VALVES SHALL BE PLACED ADJACENT TO MAIN, AND TIED TO TEE.

1. AWWA SPECIFICATIONS C-902
2. TWO 2-1/2" HOSE NOZZLE DISCHARGE
3. ONE 4-1/2" PUMPER NOZZLE DISCHARGE
4. ONE 1-1/2" OPERATING NUT, LEFT
5. HYDRANTS SHALL BE FLOW TESTED BY CONTRACTOR. COORDINATE WITH CITY ENGINEER FOR TESTING PROCEDURES.
6. ALL HYDRANTS SHALL BE EQUIPPED WITH GRADE-LOK FITTINGS TO ALLOW FOR ELEVATION ADJUSTMENTS.
7. *UNLESS AGREEMENT IS MADE WITH THE CITY OF LEESBURG TO APPLY TWO COATS OF SHERMAN WILLIAMS OR EQUAL OSHA SAFETY INDUSTRIAL YELLOW PAINT TO HYDRANT BARREL.
APPLY TWO COATS OF SHERMAN WILLIAMS OR EQUAL OSHA SAFETY INDUSTRIAL ENAMEL PAINT TO THE BONNET AND NOZZLE CAPS.
THE UTILITY DEPARTMENT INSPECTOR WILL DETERMINE THE COLOR TO PAINT THE HYDRANT BONNET AND NOZZLE CAPS BY FLOW TESTING HYDRANT.
8. KENNEDY 9010
9. AMERICAN DARLING B-84-B (PREFERRED)
10. BLUE 1500 GPM OR MORE (SHERMAN WILLIAMS #5W4080) OR EQUAL GREEN 1000 GPM TO 1499 GPM (SHERMAN WILLIAMS #5W4081) OR EQUAL ORANGE 500 GPM TO 999 GPM (SHERMAN WILLIAMS #5W4082) OR EQUAL RED 99 GPM OR LESS (SHERMAN WILLIAMS #5W4083) OR EQUAL YELLOW HYDRANT BARREL (SHERMAN WILLIAMS #5W4137) OR EQUAL

*NOTE: All fire hydrants that have yet to be approved, or are out of service must be bag "Not in Service" or bagged "out of service". Tie straps shall be used to firmly secure identification bags to hydrant.



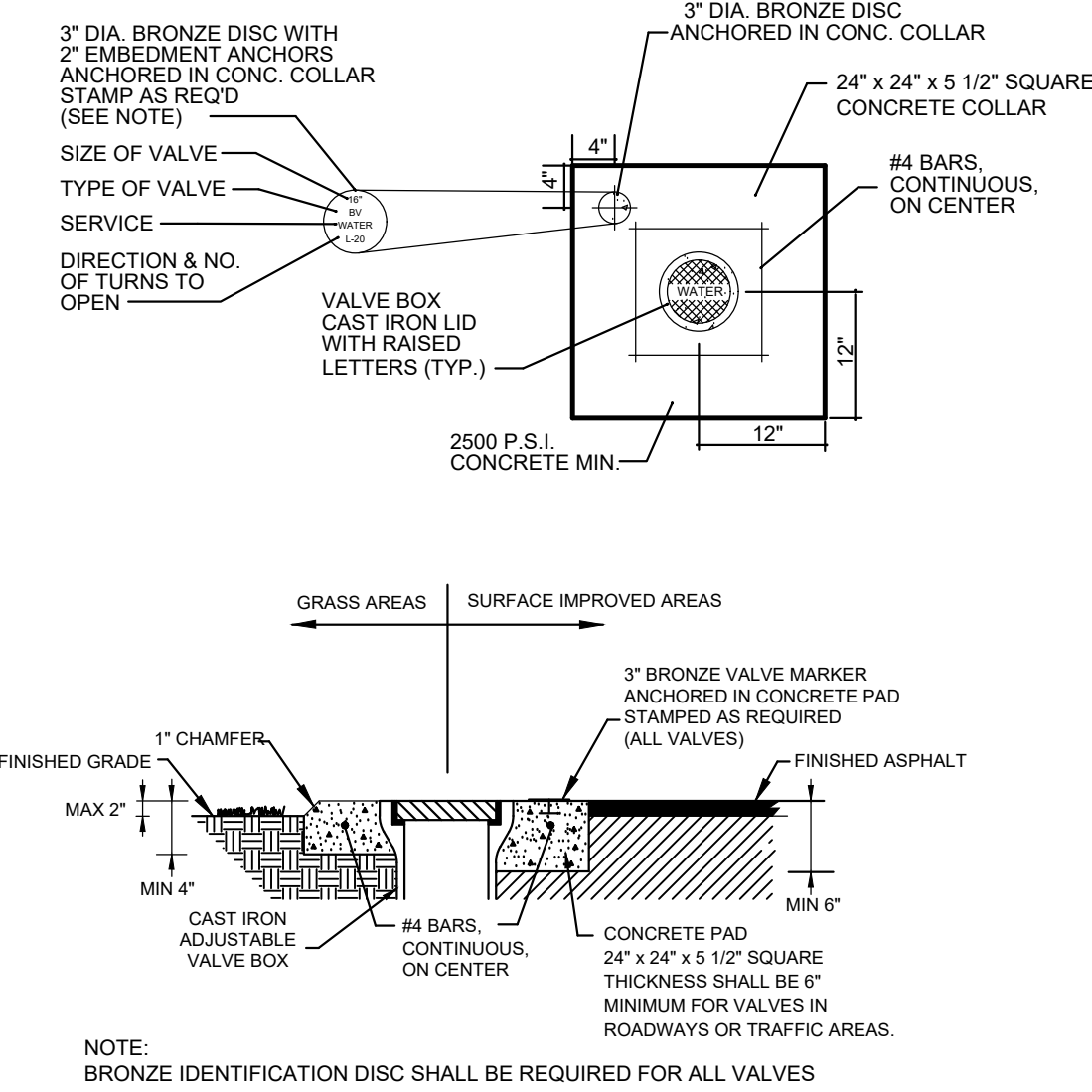
WATER FIRE HYDRANT WITH VALVE

NOT TO SCALE
(STANDARD FIRE HYDRANT ASSEMBLY)



LEESBURG
The Lakefront City

City of Leesburg
Standard Details
2023
Detail W-11



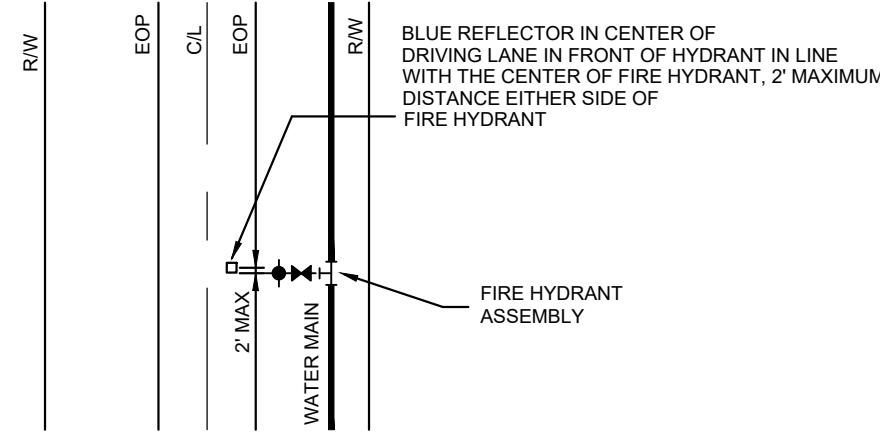
WATER VALVE COLLAR WITH IDENTIFICATION DISK

NOT TO SCALE



LEESBURG
The Lakefront City

City of Leesburg
Standard Details
2023
Detail W-5



*NOTE:
1. HYDRANTS LOCATED BEYOND THE REQUIRED 9' AS SPECIFIED IN C.O.L. CONSTRUCTION SPECIFICATION 10.32, SHALL HAVE A 60" INDICATOR / REFLECTOR PLACED BEHIND FIRE HYDRANT, OR HAVE A REFLECTIVE COLLAR ON THE FIRE HYDRANT FOR LOCATION / IDENTIFICATION PURPOSES.

WATER FIRE HYDRANT REFLECTOR DETAIL

NOT TO SCALE

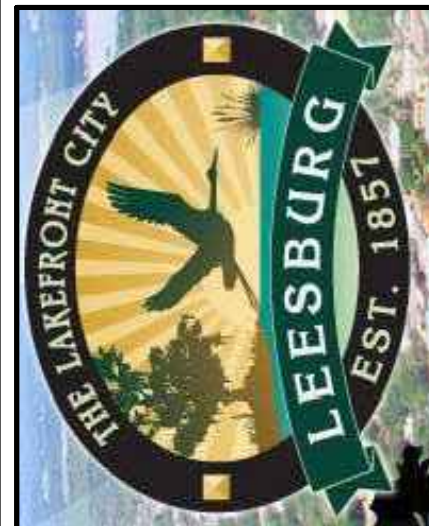


LEESBURG
The Lakefront City

City of Leesburg
Standard Details
2023
Detail W-12

CITY OF LEESBURG, FLORIDA
US HWY 27 MAIN UPGRADE
(CR 48 TO HIGHLAND LAKES)

DETAILS



haff
Office: 352.343.8481
902 North Sinclair Ave.
Tavares, Florida 32778
Fax: 352.343.8495
Certificate of Authorization Number: 33390

DATE: JANUARY 2024

DESIGNED BY: CLM

DRAWN BY: CLM

CHECKED BY: MCS

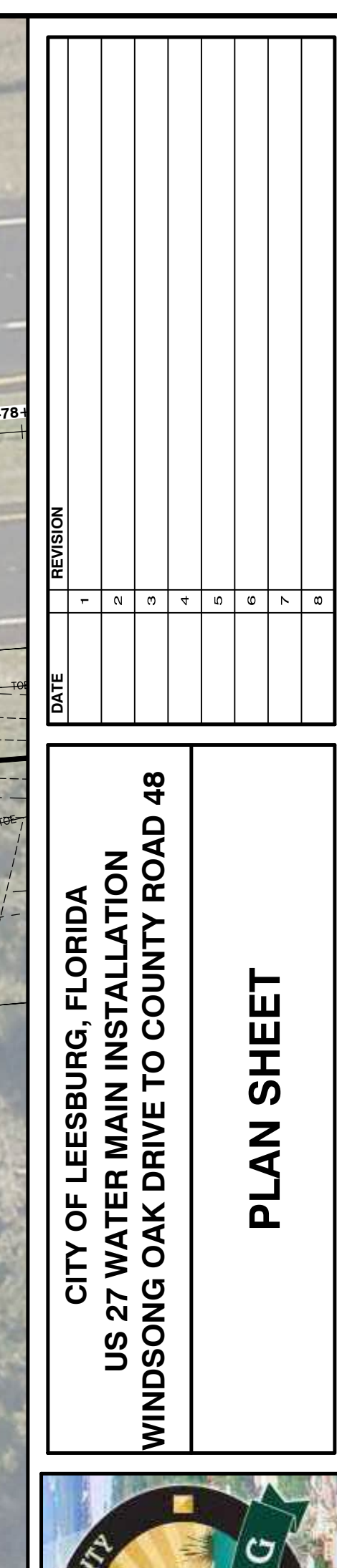
JOB NO.: 047549.001

FILE NAME: Cover Sheet, General notes, and Details A

Sheet G-4

Michael C. Scullion, P.E.
Registered Eng 70753

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Michael C. Scullion, P.E., State of Florida, Professional Engineer, License No. 70753

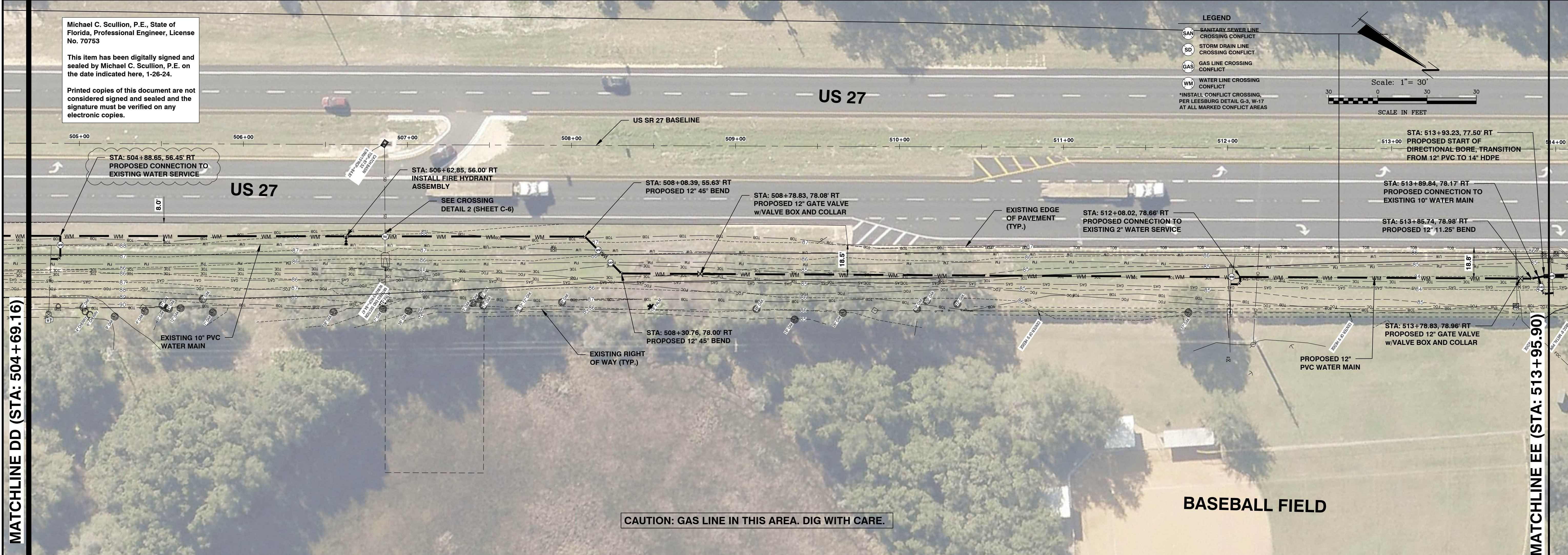
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LEGEND
SAN SANITARY SEWER LINE CROSSING CONFLICT
SD STORM DRAIN LINE CROSSING CONFLICT
GAS GAS LINE CROSSING CONFLICT
WM WATER LINE CROSSING CONFLICT
*INSTALL CONFLICT CROSSING, PER LEEBSBURG DETAIL G-3, W-17 AT ALL MARKED CONFLICT AREAS

Scale: 1" = 30'
SCALE IN FEET

MATCHLINE DD (STA: 504+69.16)



MATCHLINE EE (STA: 513+95.90)

CITY OF LEEBSBURG, FLORIDA
US HWY 27 MAIN UPGRADE
(CR 48 TO HIGHLAND LAKES)

PLAN SHEET

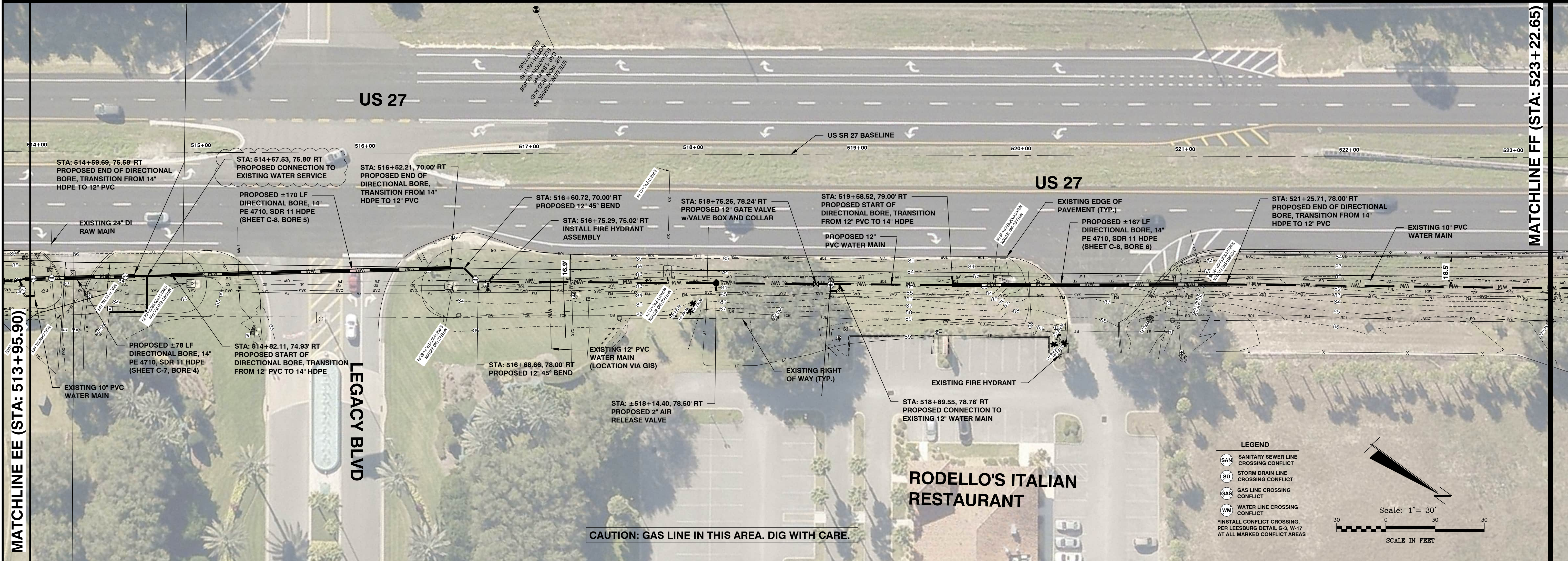


haff
902 North Sinclair Ave.
Tavares, Florida 32778
Office: 352.343.8481
Fax: 352.343.8495
Certificate of Authorization Number: 33380

DATE: JANUARY 2024
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DRAWN BY: CLM
CHECKED BY: MCS
JOB NO.: 047548.001
FILE NAME: US 27 Watermain A
Sheet C-3

Michael C. Scullion, P.E.
Registered Eng 70753

MATCHLINE EE (STA: 513+95.90)



MATCHLINE FF (STA: 523+22.65)

LEGEND
SAN SANITARY SEWER LINE CROSSING CONFLICT
SD STORM DRAIN LINE CROSSING CONFLICT
GAS GAS LINE CROSSING CONFLICT
WM WATER LINE CROSSING CONFLICT
*INSTALL CONFLICT CROSSING, PER LEEBSBURG DETAIL G-3, W-17 AT ALL MARKED CONFLICT AREAS

Scale: 1" = 30'
SCALE IN FEET

CAUTION: GAS LINE IN THIS AREA. DIG WITH CARE.

MATCHLINE FF (STA: 523+22.65)

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US 27

MATCHLINE GG (STA: 532+49.39)

PALATLAKA RIVER

US 27

CAUTION: GAS LINE IN THIS AREA. DIG WITH CARE.

LEGEND

- SAN SANITARY SEWER LINE CROSSING CONFLICT
 - SD STORM DRAIN LINE CROSSING CONFLICT
 - GAS GAS LINE CROSSING CONFLICT
 - WM WATER LINE CROSSING CONFLICT
- *INSTALL CONFLICT CROSSING, PER LEESBURG DETAIL G-3, W-17 AT ALL MARKED CONFLICT AREAS

Scale: 1" = 30'

SCALE IN FEET

MATCHLINE GG (STA: 532+49.39)

ARLINGTON RIDGE BLVD

US 27

US 27

MATCHLINE HH (STA: 541+76.14)

EXISTING 10" PVC WATER MAIN (LOCATION VIA GIS)

STA: 535+83.85, 70.00' RT PROPOSED 12" GATE VALVE w/VALVE BOX AND COLLAR

STA: 541+64.92, 70.00' RT INSTALL FIRE HYDRANT ASSEMBLY

PROPOSED 12" PVC WATER MAIN

EXISTING EDGE OF PAVEMENT (TYP.)

STA: 540+83.85, 70.00' RT PROPOSED 12" GATE VALVE w/VALVE BOX AND COLLAR

STA: 534+14.73, 70.00' RT PROPOSED CONNECTION TO EXISTING 10" WATER MAIN

EXISTING RIGHT OF WAY (TYP.)

LEGEND

- SAN SANITARY SEWER LINE CROSSING CONFLICT
 - SD STORM DRAIN LINE CROSSING CONFLICT
 - GAS GAS LINE CROSSING CONFLICT
 - WM WATER LINE CROSSING CONFLICT
- *INSTALL CONFLICT CROSSING, PER LEESBURG DETAIL G-3, W-17 AT ALL MARKED CONFLICT AREAS

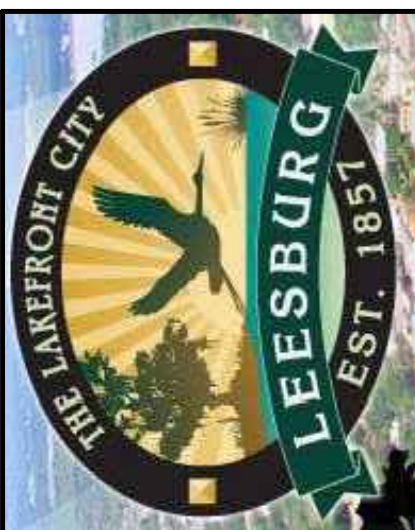
Scale: 1" = 30'

SCALE IN FEET

CAUTION: GAS LINE IN THIS AREA. DIG WITH CARE.

CITY OF LEESBURG, FLORIDA
US HWY 27 MAIN UPGRADE
(CR 48 TO HIGHLAND LAKES)

PLAN SHEET



halff
902 North Sinclair Ave.
Tavares, Florida 32778
Office: 352.343.8481
Fax: 352.343.8485
Certificate of Authorization Number: 33380

DATE: JANUARY 2024

DESIGNED BY: CLM

DRAWN BY: CLM

CHECKED BY: MCS

JOB NO.: 047549.001

FILE NAME: US 27 Watermain A

Sheet C-4

Michael C. Scullion, P.E.
Registered Eng 70753

LEGACY RV
RENTAL

Michael C. Scullion, P.E., State of
Florida, Professional Engineer, License
No. 70753

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LEGEND
SAN SANITARY SEWER LINE
CROSSING CONFLICT
SD STORM DRAIN LINE
CROSSING CONFLICT
GAS GAS LINE CROSSING
CONFLICT
WM WATER LINE CROSSING
CONFLICT
*INSTALL CONFLICT CROSSING,
PER LEESBURG DETAIL G-3, W-17
AT ALL MARKED CONFLICT AREAS

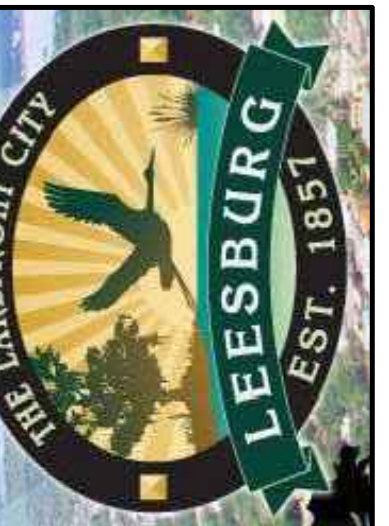
Scale: 1" = 30'
SCALE IN FEET

MATCHLINE HH (STA: 541+76.14)

MATCHLINE II (STA: 550+95.91)

CITY OF LEESBURG, FLORIDA
US HWY 27 MAIN UPGRADE
(CR 48 TO HIGHLAND LAKES)

PLAN SHEET



DATE: JANUARY 2024
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CHECKED BY: MCS
JOB NO.: 047549.001
FILE NAME: US 27 Watermain A
Sheet C-5

Michael C. Scullion, P.E.
Registered Eng 70753

CAUTION: GAS LINE IN THIS AREA. DIG WITH CARE.

US 27

LEGEND
SAN SANITARY SEWER LINE
CROSSING CONFLICT
SD STORM DRAIN LINE
CROSSING CONFLICT
GAS GAS LINE CROSSING
CONFLICT
WM WATER LINE CROSSING
CONFLICT
*INSTALL CONFLICT CROSSING,
PER LEESBURG DETAIL G-3, W-17
AT ALL MARKED CONFLICT AREAS

Scale: 1" = 30'
SCALE IN FEET

MATCHLINE II (STA: 550+95.91)

MATCHLINE JJ (STA: 560+09.95)

GRACELAND OF
LEESBURG

YARD STOP
GARDEN CENTER

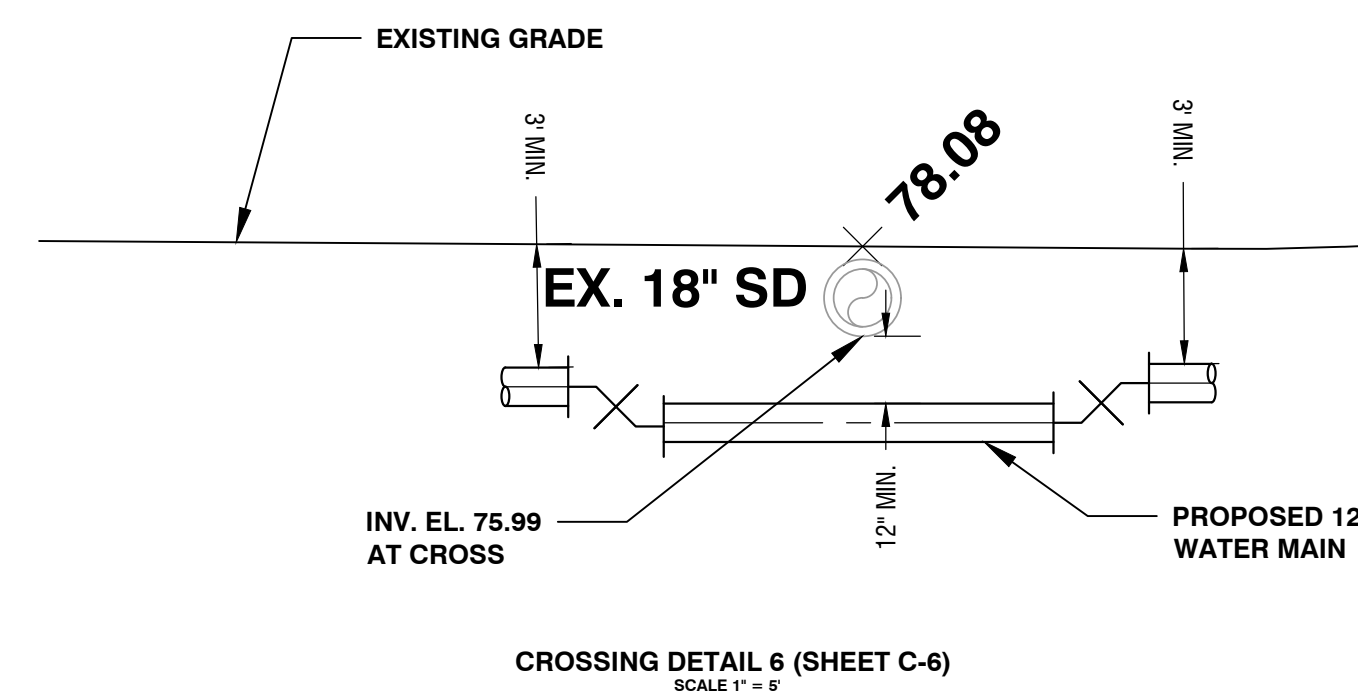
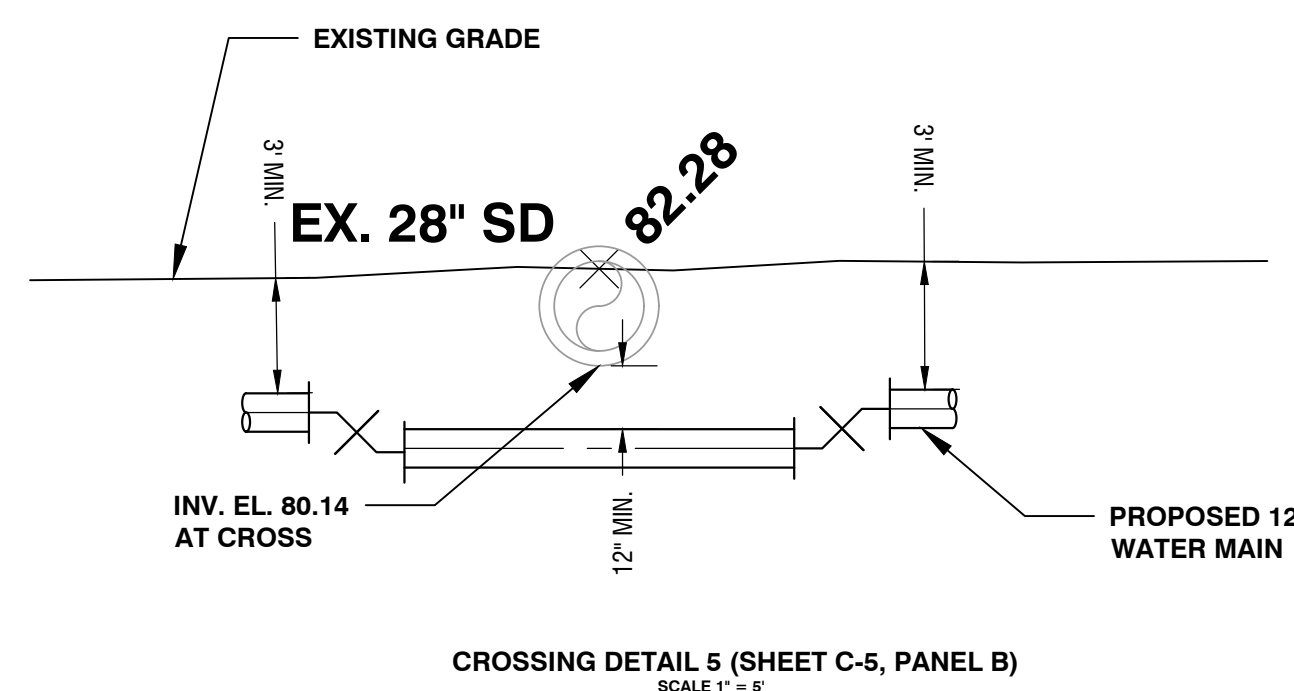
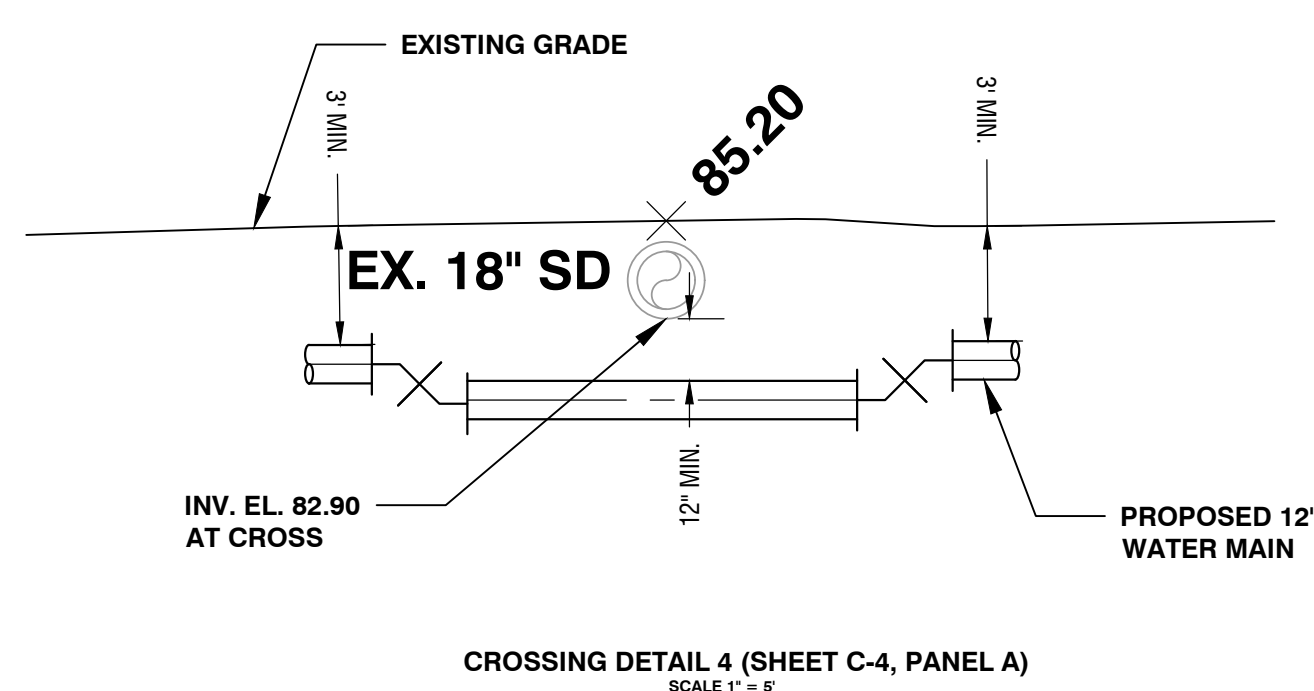
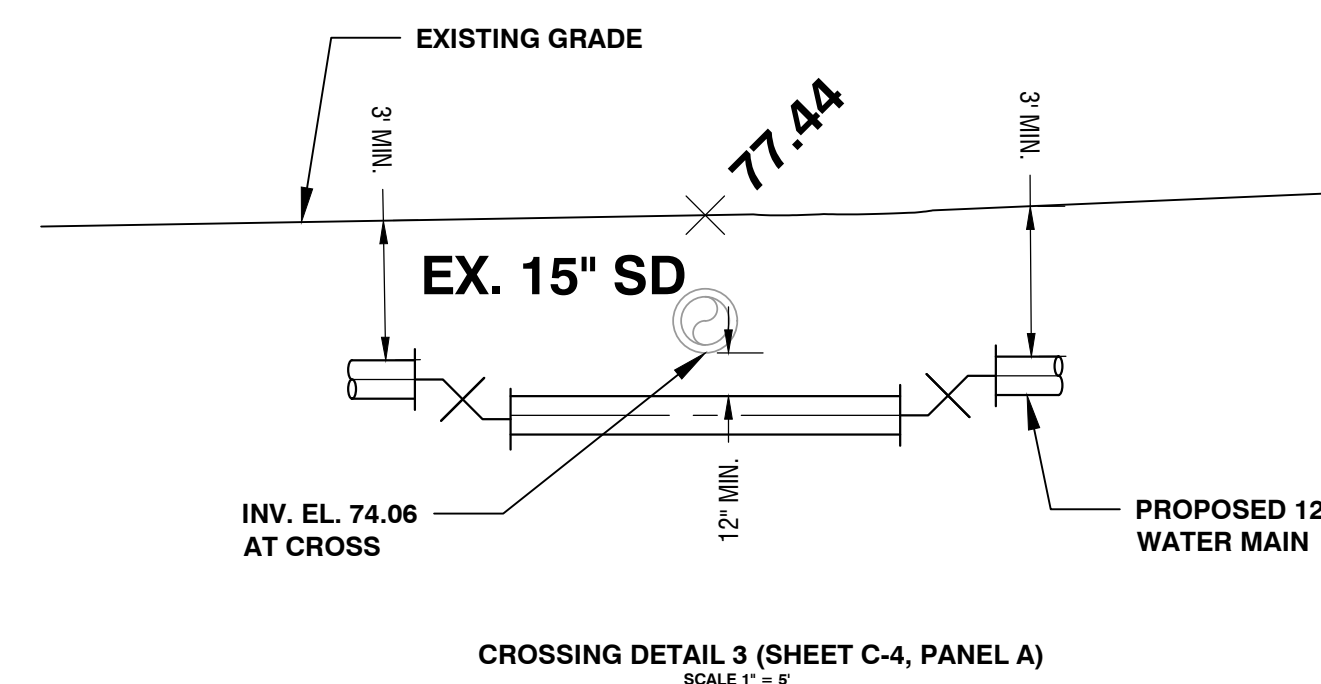
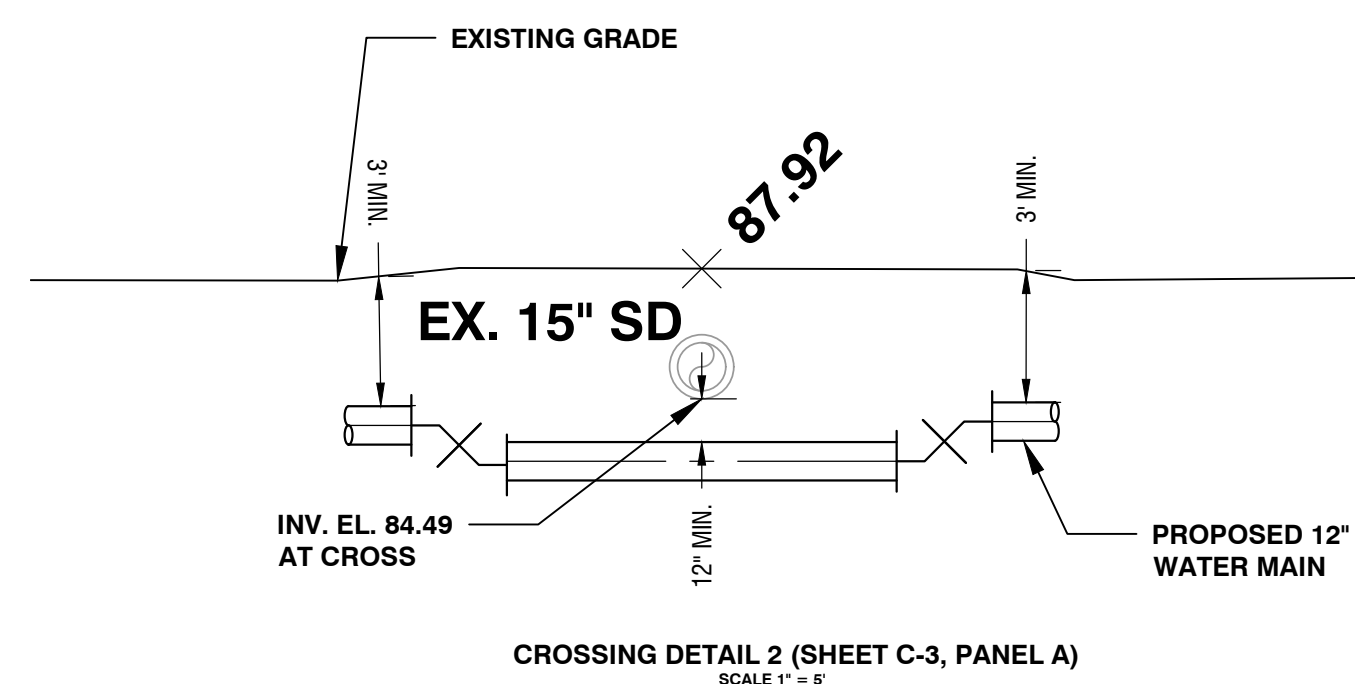
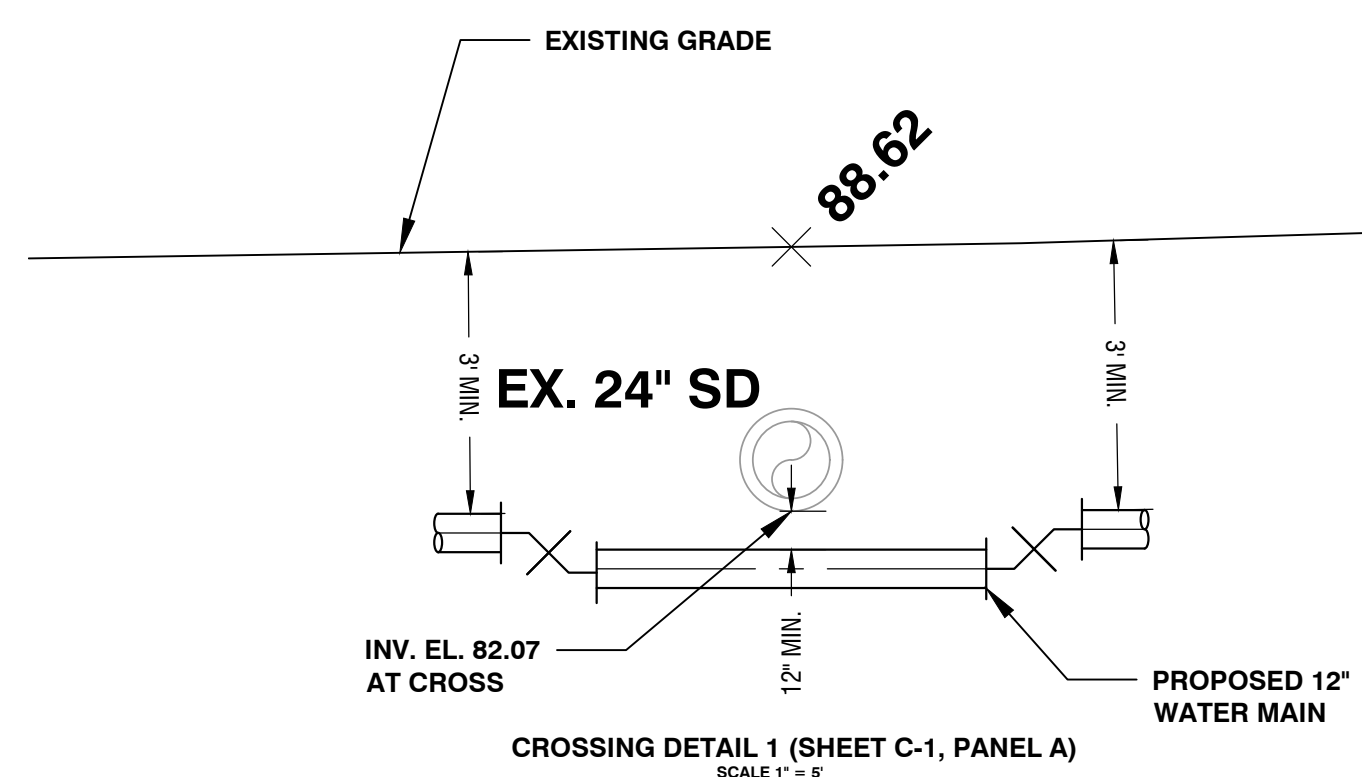
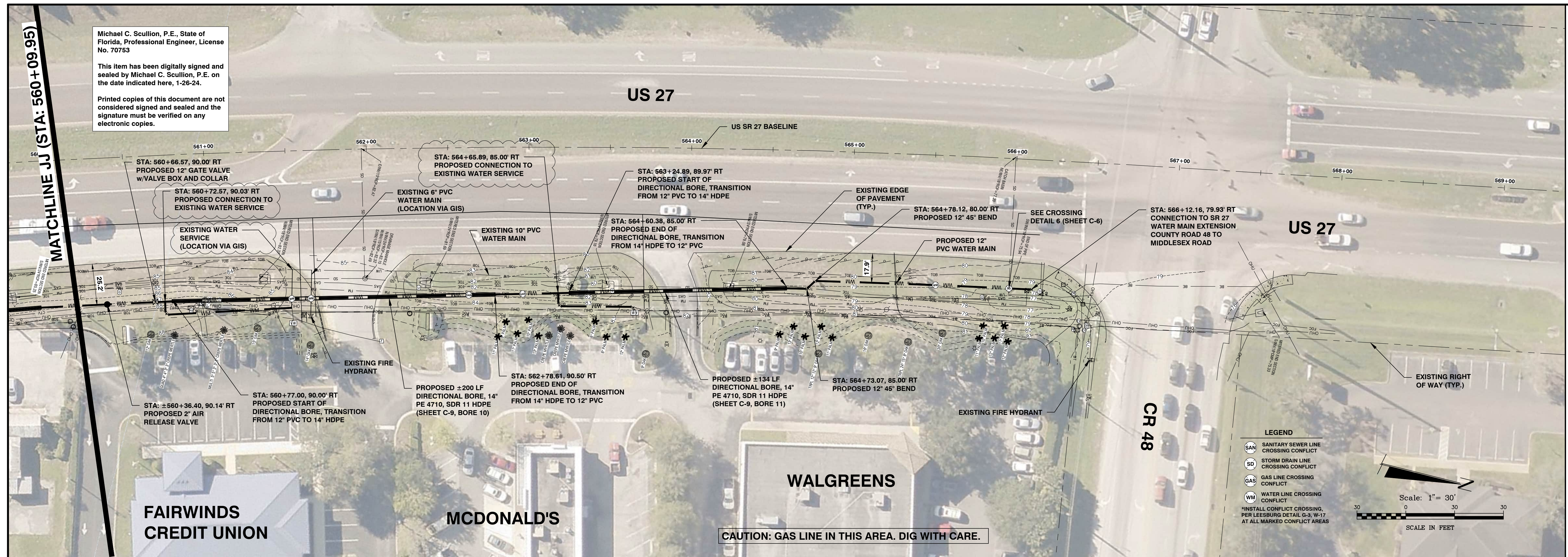
CAUTION: GAS LINE IN THIS AREA. DIG WITH CARE.

56

**Michael C. Scullion, P.E., State of
Florida, Professional Engineer, License
No. 70753**

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**CITY OF LEESBURG, FLORIDA
US HWY 27 MAIN UPGRADE
(CR 48 TO HIGHLAND LAKES)**

PLAN SHEET AND CROSSING DETAILS



halff

902 North Sinclair Ave.
Office: 352.343.8481

Florida 32778
 Fax: 352.343.8495
 Certificate of Authorization Number: 33380

DATE: JANUARY 2024

DESIGNED BY: CLM

DRAWN BY: CLM

CHECKED BY.: MCS

DB NO.: 047549.001

LE NAME:	US 27 Watermain A
----------	-------------------

Sheet C-6

Michael C. Scullion, P.E.
Registered Eng 70753

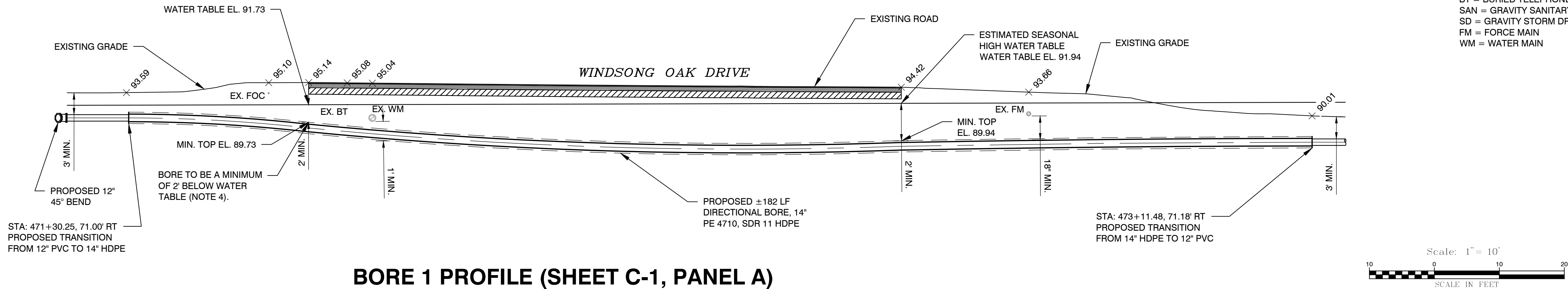
- NOTE:
1. ALL PIPE SHALL BE INSTALLED WITH A MINIMUM OF THREE (3) FEET OF COVER.
 2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
 3. 21" MAXIMUM BORED DIAMETER DETERMINED USING FDOT 2017 UTILITY ACCOMMODATION MANUAL (UAM) SECTION 3.16.9.1.
 4. BENEATH ROADWAYS, BORE DEPTH SHALL BE A MINIMUM OF TEN (10) TIMES THE BORED DIAMETER TO THE TOP OF THE BORE OR TWO (2) FEET BELOW THE WATER TABLE TO THE TOP OF THE BORE AS STATED IN UAM SECTION 3.16.9.1.

Michael C. Scullion, P.E., State of Florida,
Professional Engineer, License No. 70753

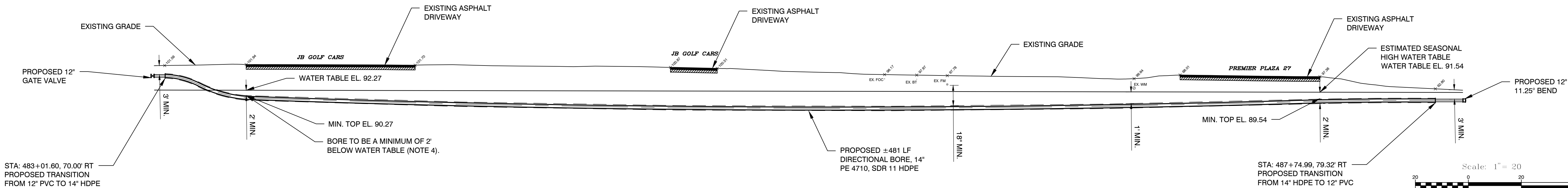
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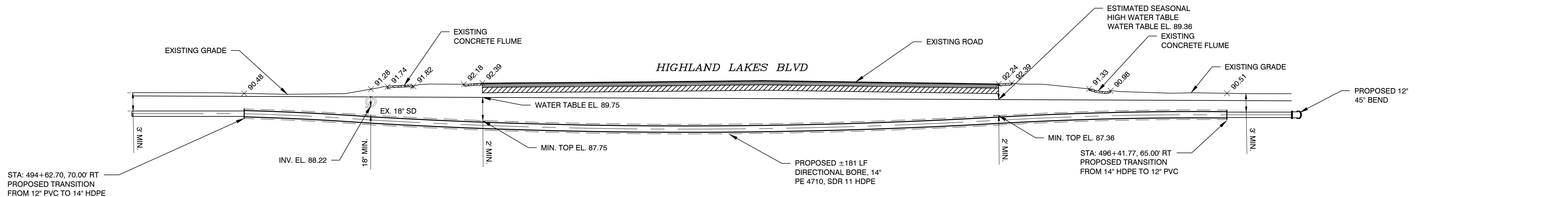
LEGEND:
FOC = FIBER OPTIC CABLE
BE = BURIED ELECTRIC
BT = BURIED TELEPHONE
SAN = GRAVITY SANITARY SEWER
SD = GRAVITY STORM DRAINAGE
FM = FORCE MAIN
WM = WATER MAIN



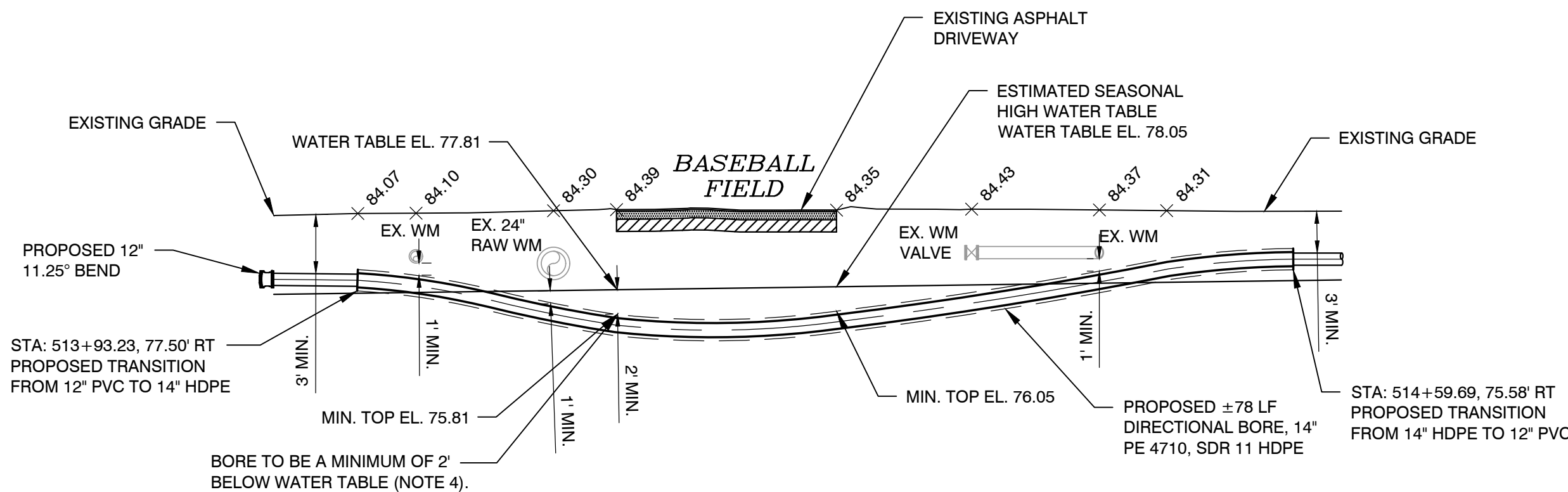
BORE 1 PROFILE (SHEET C-1, PANEL A)



BORE 2 PROFILE (SHEET C-1, PANEL B/SHEET C-2, PANEL A)



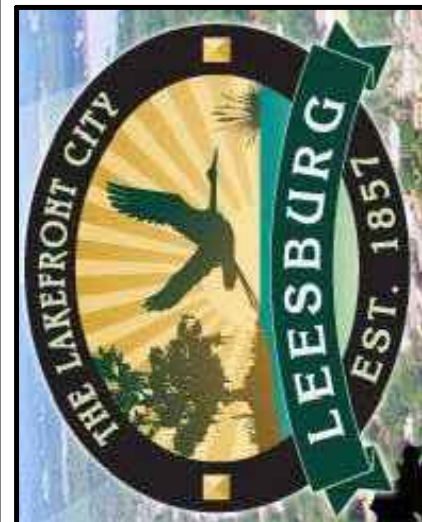
BORE 3 PROFILE (SHEET C-2, PANEL A/B)



BORE 4 PROFILE (SHEET C-3, PANEL A/B)

CITY OF LEESBURG, FLORIDA
US HWY 27 MAIN UPGRADE
(CR 48 TO HIGHLAND LAKES)

BORE PROFILES



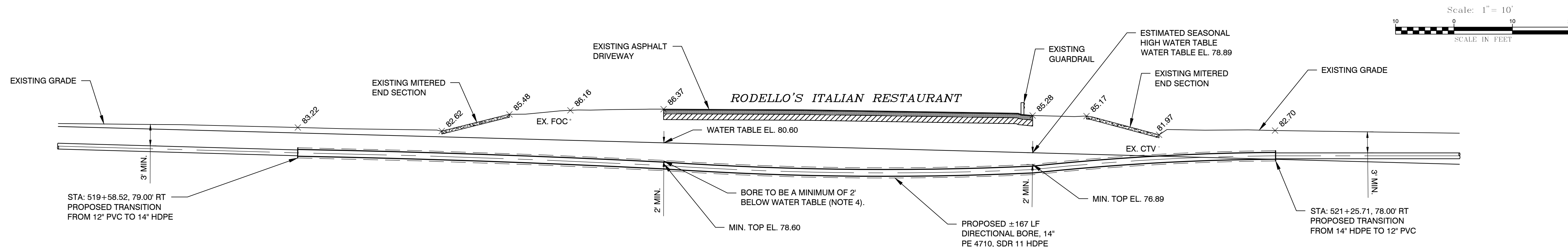
DATE: JANUARY 2024
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CHECKED BY: MCS
JOB NO.: 047549.001
FILE NAME: US 27 Watermain & Bore Profiles
Sheet C-7

Michael C. Scullion, P.E.
Registered Eng 70753

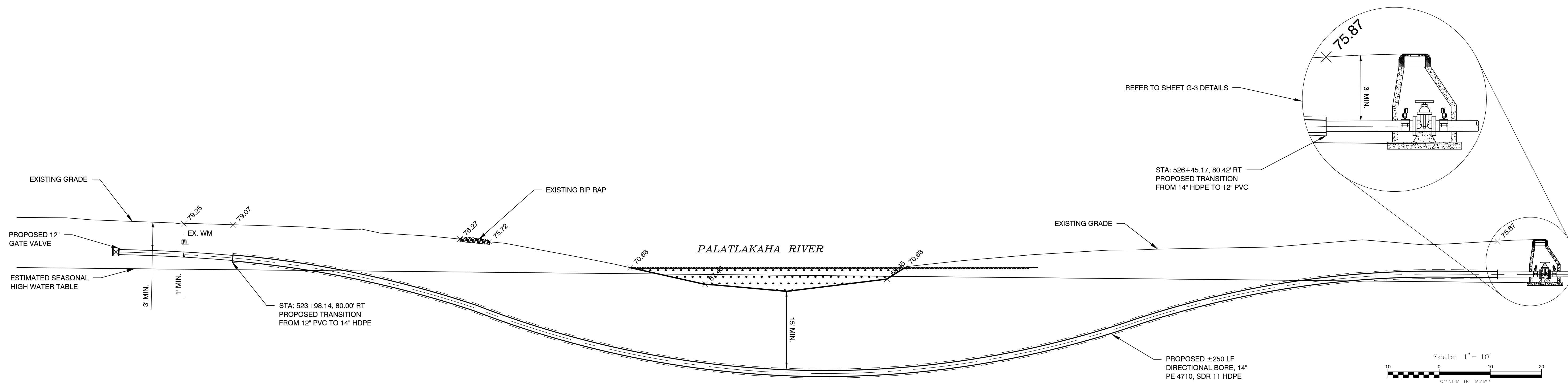
1. ALL PIPE SHALL BE INSTALLED WITH A MINIMUM OF THREE (3) FEET OF COVER.
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4. BENEATH ROADWAYS, BORE DEPTH SHALL BE A MINIMUM OF TEN (10) TIMES THE BORED DIAMETER TO THE TOP OF THE BORE OR TWO (2) FEET BELOW THE WATER TABLE TO THE TOP OF THE BORE AS STATED IN UAM SECTION 3.16.9.1.

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BORE 5 PROFILE (SHEET C-3, PANEL A/B)



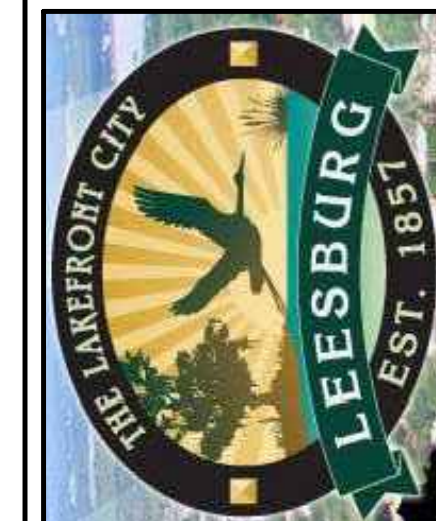
BORE 6 PROFILE (SHEET C-3, PANEL B)



BORE 7 PROFILE (SHEET C-4, PANEL A)

DATE	REVISION
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CITY OF LEESBURG, FLORIDA
**US HWY 27 MAIN UPGRADE
(CR 48 TO HIGHLAND LAKES)**



Sinclair Ave.
Florida 32778
Office: 352.343.8481
Fax: 352.343.8495

DATE:	JANUARY 2024
DESIGNED BY:	CLM
DRAWN BY:	CLM
CHECKED BY.:	MCS
JOB NO.:	047549.001
FILE NAME:	US 27 Watermain & Bore Profiles

Sheet C-8

Michael C. Scullion, P.E.
Registered Eng 70753

1. ALL PIPE SHALL BE INSTALLED WITH A MINIMUM OF THREE (3) FEET OF COVER.
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Scale: 1" = 10'

10 0 10 20

SCALE IN FEET



Scale: 1" = 10'

10 0 10 20

SCALE IN FEET



Scale: 1" = 10'

SCALE IN FEET



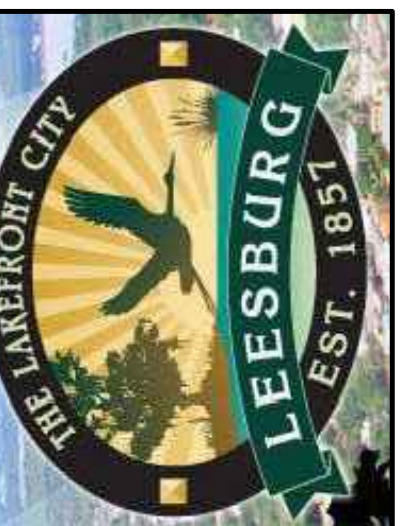
Scale: 1" = 10'

SCALE IN FEET

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CITY OF LESSBURG, FLORIDA
**US HWY 27 MAIN UPGRADE
(CR 48 TO HIGHLAND LAKES)**

BORE PROFILES



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DRAWN BY:	CLM
CHECKED BY.:	MCS
JOB NO.:	047549.001
FILE NAME:	US 27 Watermain A Bone Profiles

Sheet C-9

Michael C. Scullion, P.E.
Registered Eng 70753