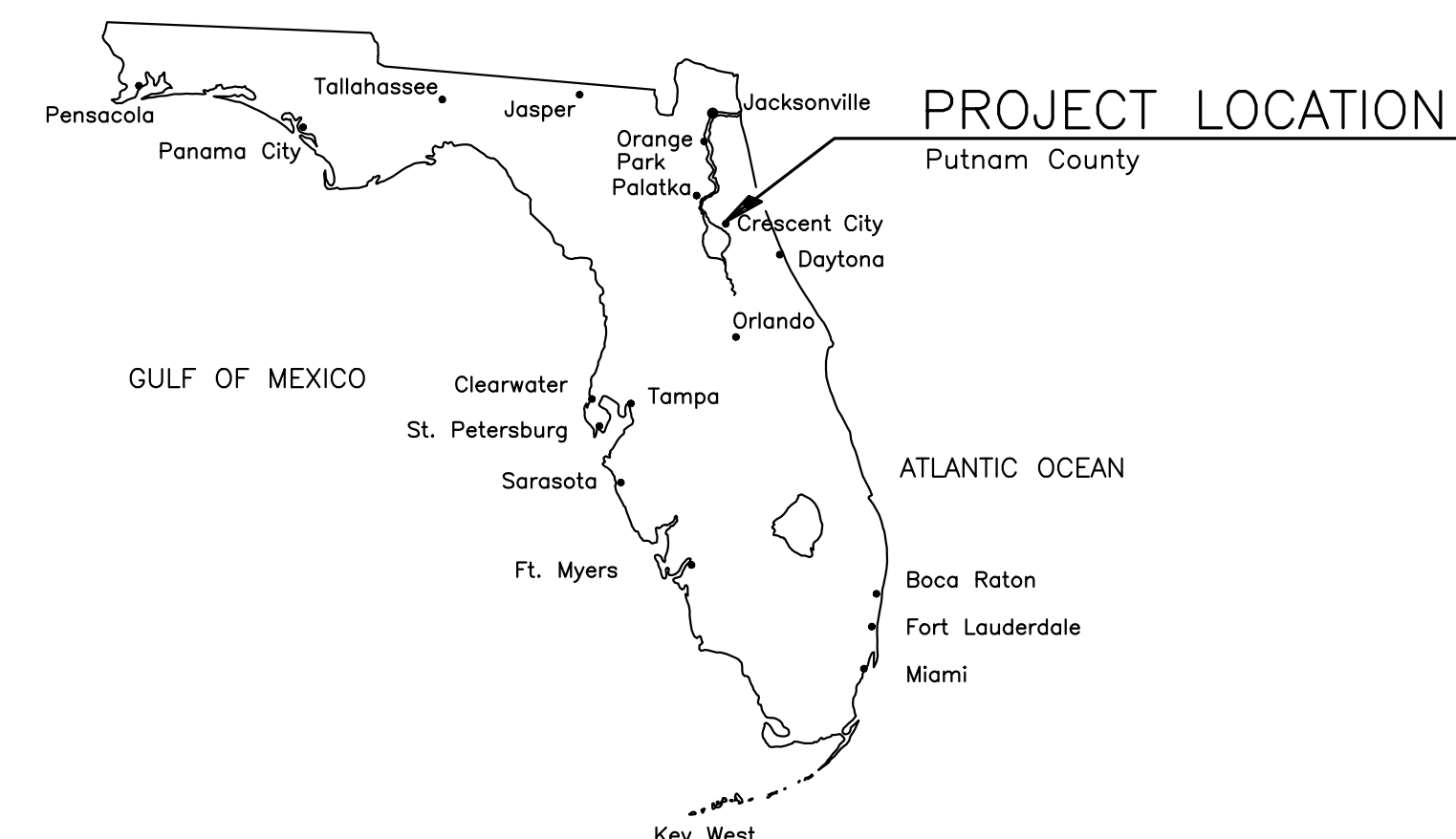


PROSPECT ST. WATER MAIN REPLACEMENT

FOR

CITY OF CRESCENT CITY, FLORIDA

M & A Project No. 9318-64-1



MICHELE MYERS
MAYOR

H. HARRY BANKS
VICE MAYOR

LISA KANE DeVITTO
COMMISSIONER

CHRISTOPHER BAILEY
COMMISSIONER

CYNTHIA BURTON
COMMISSIONER

CHARLES RUDD
CITY MANAGER

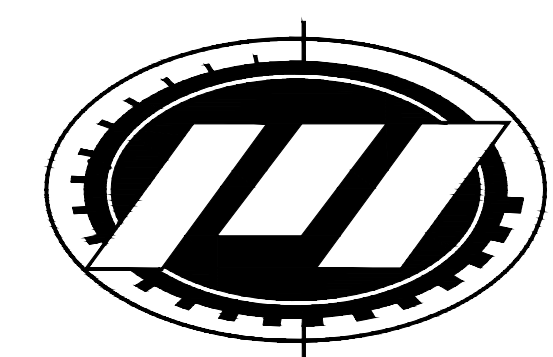
ROBERT PICKENS
CITY ATTORNEY

D R A W I N G I N D E X

SHEET NO.	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES, ABBREVIATIONS AND LEGEND
3	KEY MAP
4	OVERALL WATER MAIN MAP
5	PROSPECT ST - ORANGE AVE TO LEMON AVE
6	PROSPECT ST - MYRTLE AVE TO CYPRESS AVE
7	PROSPECT ST - CENTRAL AVE TO EUCALYPTUS AVE
8	PROSPECT ST - EDGEWOOD AVE TO MAGNOLIA AVE
9	PROSPECT ST - OLEANDER AVE TO LAKEVIEW DR
10	PROSPECT ST - PALM AVE
11	FLORIDA AVE - PARK ST TO LAKE ST
12	TYPICAL DETAILS
13	TYPICAL DETAILS
14	TYPICAL DETAILS
15	MAINTENANCE OF TRAFFIC



VICINITY MAP



MITTAUER
& ASSOCIATES, INC.
CONSULTING ENGINEERS

580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
TEL. (904) 278-0030 FAX. (904) 278-0840 FLORIDA LICENSE RY-6569

REVIEW SET

11/03/23

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GENERAL NOTES

A. GENERAL CONSTRUCTION NOTES

- Existing underground utilities have been shown from the best available information. The Contractor shall notify the proper Utility Representative prior to commencing excavation near the utility. The Contractor is responsible for locating all utilities in the path of construction. Contractor shall field determine the location, size, and depth of all existing piping. The Contractor shall call the Sunshine State One center (1-800-432-4770).
- It shall be the sole responsibility of the Contractor to locate and avoid all utilities, structures, and obstructions both above and below the ground surface. All damages resulting from the Contractor's failure to comply with this requirement shall be repaired at the Contractor's expense.
- Contractor is responsible for supporting/protecting & maintaining all existing improvements (i.e., utilities, utility poles, structures, pavement, sidewalks, monitoring wells, foundations, etc.) which may be damaged/undermined or interrupted as a result of his operations. The Contractor shall immediately notify the Engineer of any such occurrences. The Contractor may be required to shore, sheet, brace, or support work to protect existing improvements. The Contractor shall maintain a minimum of 5 feet of undisturbed soil around all power poles. Where edge of utility trench would be closer than 5 feet from poles, Contractor shall be required to sheet around pole to maintain 5 feet of undisturbed soil. Where 5 feet of undisturbed soil cannot be maintained, Contractor shall make arrangements with power company to have poles held/braced. All costs associated with supporting/protecting existing improvements shall be borne by the Contractor.
- All existing facilities (e.g., pipes, roadways, sidewalks, landscaping, structure, etc.) not indicated to be disturbed/restored which are disturbed/damaged as a result of the Contractor's operations shall be restored to a condition equal to or better than that which existed prior to construction, at Contractor's expense.
- Horizontal and vertical controls are subject to adjustments in the field if necessary to avoid utility conflicts upon approval of the Engineer or his representative. Contractor shall not adjust location of pipe or other facilities (either vertically or horizontally) without approval of the Engineer or his representative.
- Contractor shall provide constant slope between indicated pipe invert elevations, unless otherwise directed by Engineer.
- Contractor shall not remove any trees of 4-inch diameter or larger without Engineer's approval. Adjustment of pipe location to avoid trees shall be subject to approval of the Engineer. The Engineer makes no claim that any tree will survive construction of the proposed project.
- The Contractor shall at all times conduct his operations so as to interfere as little as possible with the existing facilities. The Contractor shall develop a program in cooperation with the Owner's operating staff which shall provide for the construction of an putting into service the proposed work in the most orderly manner possible. All work of connection with, cutting into and reconstruction of existing facilities shall be planned so as not to interfere with the existing facility.
- Contractor shall apply for and obtain FDEP Generic Permit for Large and Small Construction Activities (CGP). The Contractor shall act as the Operator of all temporary construction phase pollution prevention improvements and be responsible for their design, selection, and implementation. Schematic erosion control measures are provided in these documents and shall be the basis of the Contractor's design.
- During any construction activity, including stabilization and revegetation of disturbed surfaces, the Contractor is responsible for the design, selection, permitting, implementation, and operation of all temporary construction phase erosion and sediment control measures required to retain on-site sediment and prevent violations of the State of Florida water quality standards. The Contractor shall use appropriate best management practices described in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, July 2013, with revisions. All turbidity/silt barriers must be in place downgradient from the construction zone prior to the start of any construction activity in general accordance with the plans and details provided in these documents. The barriers shall remain in place until all the disturbed areas have been properly stabilized.
- Unsuitable materials exposed during construction under utility pipes or structures shall be removed and replaced with selected backfill, properly compacted, in accordance with specifications.
- Where existing culverts must be removed to construct the project, the Contractor shall reinstall the culverts as soon as practical. If the culverts are not suitable for reuse, the Contractor shall, at his expense, extend/replace the culverts as required with similar materials to accommodate the work while maintaining existing invert elevations for all extended/replaced culverts. Provide all required excavation and fill necessary to extend/replace the culvert. The Contractor shall ensure, at his expense, temporary measures are provided to maintain existing drainage patterns.
- The Contractor shall temporarily relocate the postal mail boxes and clusters as required for the construction of the project and reinstall them in their original locations upon completion of the construction. All work associated with the mail boxes or clusters shall be in accordance with the requirements of the U.S. Post Masters Office.
- Only that excavation that can be backfilled by the end of the work day will be excavated. No open trench will be allowed to remain after work ends for the day, unless approved by Engineer or governing authority.
- All areas disturbed by construction shall be regraded and sodded.
- Until final acceptance of the work by the Owner, it shall be under the charge and custody of the Contractor and he shall take every precaution against injury or damage to the work by the action of the elements or from any other cause whatsoever, arising either from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore and make good without any additional compensation, all injury or damage to any portion of the work occasioned by any of the above causes before its completion and acceptance.
- The Contractor shall employ the services of a Florida licensed surveyor who shall be responsible for laying out the work and for establishing the following: project temporary benchmarks; elevation lines and grades; and right-of-way and easement limits for construction. Contractor shall also employ the services of a Florida licensed surveyor to obtain the required record drawing information.
- The Contractor shall employ a land surveyor, registered in the State of Florida, to reference property and restore property corners and land markers which may be disturbed as a result of Contractor's operations.
- Project Benchmark: Project Benchmark: All elevations on these plans are relative to the North American Vertical Datum of 1988 (NAVD 88) based on National Geodetic Survey Benchmark PID A16986 having an elevation of 2.99 feet. See Sheet No. 3 for location and description of Benchmark.
- Topographic information based on a survey by Mittauer & Associates, Inc., performed on 09/12/22, job no. 9318-61-1.
- Horizontal control for features on the plans are relative to the NAD83 Florida State Planes, East Zone, US Foot coordinate system.

B. GENERAL WATER SYSTEM NOTES

- All water line work shall be in accordance with FAC 62-555, Permitting and Construction of Public Water Systems. All materials that come in contact with drinking water shall be in conformance with ANSI/NSF International Standard 61 and shall be installed in accordance with applicable AWWA Standards and/or the manufacturer's recommendations.
- The Contractor shall coordinate the construction of the water facilities with all other construction. The Contractor shall verify the location and elevation of the proposed water main connection(s) prior to commencing work. It shall be the Contractor's responsibility to notify the Owner and the Engineer of any discrepancies.
- Water lines are designed to finished grade and shall be protected until finished work is complete.
- All workmanship and materials associated with water mains shall conform to the latest standards and specifications of the local utility company.
- Refer to specifications and FDEP rules for separation requirements between potable water mains and other utilities.
- All existing water main valves which are made inactive as the result of this project shall have their valve boxes removed and the disturbed roadway or grassed area restored. Valve boxes which are in paved areas shall have the cover removed and the section shall be filled with asphalt or flowable fill with the surface painted to match the surrounding pavement.
- The location of water services on the plans are approximate. Actual location of services shall be determined in the field by location of existing water lines and as directed by the Engineer and the Owner.
- No connection to the existing potable water system shall be allowed until all proposed water lines have been pressure tested, disinfected and cleared for service. Pressure testing shall be in accordance with AWWA C600 for DI mains or AWWA C605 for PVC mains. All water lines shall be disinfected in accordance with AWWA C651 and DEP requirements. As a minimum, successful bacteriological test shall be performed on two consecutive days at the point of tie-in, at junctions, along the water line route at 1,200' spacing, and at the terminal end of the line extension.
- Existing Water Meters shall be disconnected from the existing water system and reconnected to the newly installed serviced lines after the new water system is cleared for service. The Contractor is responsible for locating and connecting all existing water services to the new main.

C. PAVEMENT STRIPING AND SIGNAGE NOTES

- Unless otherwise noted on the drawings, all existing signs removed by the construction activity, shall be restored to their original position prior to completion of the project. Any signs damaged during construction shall be replaced at the Contractor's expense.
- All signs and pavement markings shall conform to the Manual on Uniform Traffic Control Devices (MUTCD) and the Florida Department of Transportation Roadway and Traffic Design Standards, latest editions.
- Sign assembly locations, shown on the plans, which are in conflict with lighting, utilities etc. may be adjusted slightly as directed by the Engineer.
- Existing signs to be permanently removed shall become the property of the Contractor and disposed of at his expense unless claimed by Owner or governing authority.
- All pavement striping within Right-of-Way or easements, as well as all stop bars, crosswalks, messages and directional arrows (regardless of location) shall be lead free, thermoplastic pavement markings (FDOT spec. section 711). All other striping shall be reflective paint (FDOT spec. section 710) unless noted otherwise on the drawings or in the project specifications.
- The aluminum column (post) & connection design shall adhere to FDOT Index 700-010 and the following criteria:
 - mounting height = 8' maximum
 - sign(s) area = 25 sq. ft. maximum
 - sign(s) width: single = 36" maximum
 - dual = 48" maximum
 - driven post only
- All posts shall be installed plumb.
- All hardware shall be stainless steel (ASTM F593, ASTM F594, Alloy Group 2, Condition A, CW2 or SH4).
- All signs furnished under this contract shall be permanently affixed with the date they were fabricated.

D. MAINTENANCE OF TRAFFIC NOTES

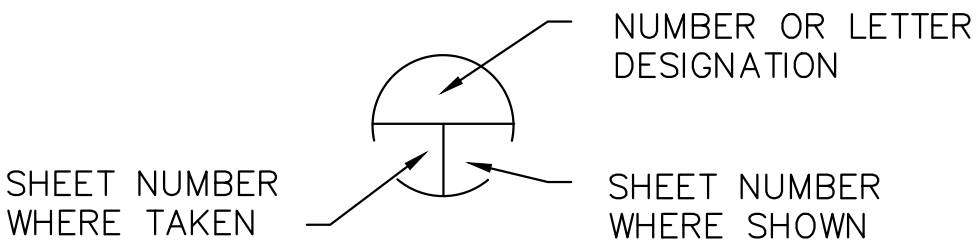
- Contractor shall provide all Maintenance of Traffic (MOT) plans and/or schematics as required per the MUTCD, FDOT, and/or local jurisdiction to obtain R/W permit(s). Standard Index Drawings are provided for reference purposes only. Final MOT plans are the Contractor's responsibility per their construction approval and shall be implemented at their expense.
- Contractor shall maintain vehicular access to all residences at the end of each workday. No roadway/driveway shall be blocked to vehicular traffic for more than a two (2) hour period.
- Contractor shall maintain single lane access, at a minimum, at all times. Contractor shall provide detours and/or temporary roadway as necessary. Contractor shall provide all necessary flagging.
- Contractor shall confine his active work area to no more than 100 feet at a time.
- The roadway shall be restored to at least a limerock surface before it is reopened to traffic, and before the Contractor moves on to the next construction zone.
- Dust control measures shall be implemented on all unpaved surfaces until paved.

LEGEND

PROPOSED	EXISTING	
-- 8"SAN --		SANITARY SEWER
-- 4"FM --		SANITARY FORCE MAIN
MH	MH	MANHOLE
		VALVE
-- 6"W --		WATER MAIN (CONSTRUCTED)
-- 6"FM --		WATER MAIN (DIRECTIONAL DRILL)
		FIRE HYDRANT
		WATER SERVICE (BASE)
		WATER SERVICE (ADDITIVE ALT.)
		TEMPORARY SAMPLE POINT
		TELEPHONE PEDESTAL
		MAIL BOX
16"RCP	16"RCP	STORM DRAIN PIPE
		STORM DRAIN STRUCTURE
84.0	84	GRADE CONTOURS
83.00	83.00	SPOT ELEVATIONS
		POWER POLE/ W/ANCHOR
		UTILITY POLE, LIGHT POLE
-- B1 --		BURIED TELEPHONE
-- F0 --		FIBER OPTIC CABLE
---CTV---		CABLE TELEVISION
---OHE---		OVERHEAD ELECTRIC
---GAS---		GAS LINE
---SWALE---		SWALE
---X---X---		FENCING
		ASPHALT PAVEMENT OR IMPROVEMENT
		CONCRETE PAVEMENT OR SIDEWALK
		LIMITS OF MILLING AND OVERLAY
		STABILIZED ROADWAY OR DRIVEWAY
		LIMITS OF REMOVAL
		OVERLAND FLOW DIRECTION
		TEMPORARY SILT FENCE
		LIMITS OF WOODS
		TREE
		TREE TO BE REMOVED

ABBREVIATIONS

ABS	ACRYLONITRILE BUTADIENE STYRENE	MAINT	MAINTAIN OR MAINTENANCE
ABV	ABOVE	MAN	MANUAL(LY)
ACP	ASBESTOS CEMENT PIPE	MAX	MAXIMUM
AF	ABOVE FINISH FLOOR (REF. ELEV.)	MES	METERED END SECTION
AFG	ABOVE GRADE (REF. ELEV.)	MECH	MECHANICAL
ALUM	ALUMINUM	MFR	MANUFACTURE
ALT	ALTERNATE	MG	MILLION GALLONS(S)
APRX	APPROXIMATE(LY)	MGD	MILLION GALLONS PER DAY
ARCH	ARCHITECT(URAL)	MH	MANHOLE
ARV	AIR RELEASE VALVE	MIN	MINIMUM; MINUTE(S)
ASPH	ASPHALT	MISC	MISCELLANEOUS
ASSY	ASSEMBLY	MJ	MECHANICAL JOINT
BE	BURIED ELECTRIC	MON	MONUMENT
BF	BOTTOM FACE	MPH	MILES PER HOUR
BFO	BURIED FIBER OPTIC	MPT	MALE PIPE THREAD
BFV	BUTTERFLY VALVE	MTD	MOUNTED
BITUM	BITUMINOUS OR BITUMASTIC	N	NORTH
B	BASELINE	NE	NORTHEAST
BULG	BUILDING	NIC	NOT IN CONTRACT; NOT INCLUDED
BLK	BLOCK	NOM	NOMINAL
BOT	BOTTOM	NO	NUMBER
BT	BURIED TELEPHONE--CABLE	NPT	NATIONAL PIPE THREAD
BV	BALL VALVE	NPW	NON--POTABLE WATER
C, CND	CONDUIT	NTS	NOT TO SCALE
CATV	CABLE TELEVISION	NW	NORTHWEST
CI	CAST IRON	N/A	NOT APPLICABLE
CIP	CAST IRON PIPE, CAST--IN--PLACE	NA	OVERALL DIMENSION
CL	CENTERLINE	OC	ON CENTER
CLF	CHAIN LINK FENCE	OD	OUTSIDE DIAMETER
CLP	CLEAR OR CLEARANCE	OF	OUTSIDE FACE
CM	CONCRETE MONUMENT	OH	OVER HEAD
CMP	CORRUGATED METAL PIPE	OHE	OVER HEAD ELECTRIC
CNU	CONCRETE MASONRY UNIT	PMT	POINT, PVT
CNR	CORNER	PC	POINT OF CURVE
CONT	CONTINUOUS	PI	POINT OF INTERSECTION
COORD	COORDINATE	PL	PLATE
COW	CONCRETE	PLF	POUNDS PER LINEAR FOOT
CUL	CULVERT	POB	POINT OF BEGINNING
CV	CHECK VALVE	PPM	POWER POLE
CY	CUBIC YARD	PPM	PARTS PER MILLION
C/C	CENTER TO CENTER	PSF	POUNDS PER SQUARE FOOT
CS	COUBLE	PSI	POUNDS PER SQUARE INCH
DI	DUCTILE IRON	PT	POINT OF TANGENCY
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DM	DIMENSION	PW	POTABLE WATER LINE
DIP	DUCTILE IRON PIPE	QTY	QUANTITY
DOT	DEPARTMENT OF TRANSPORTATION	R, RAD	RADIUS
DWG	DRAWING	RCP	REINFORCED CONCRETE PIPE
E	EAST	RD	ROAD
EA	EACH	RED	REDUCER
EA	EACH FACE	REBAR	REINFORCING STEEL BARS
EL, ELEV	ELEVATION	REF	REFERENCE
ELC	ELECTRIC(AL)	REIN	REINFORCE(D)(ING)(MENT)
EP	EDGE OF PAVEMENT	REQD	REQUIRED
ERCP	ELLIPITICAL REINFORCED CONCRETE PIPE	RR	RAILROAD
ESMT	EASEMENT	RT	RIGHT
EW	EACH WAY	R/W	RIGHT--OF--WAY
EXP	EXPANSION	S	SEWER, SOUTH
EX, EXIST	EXISTING	SAN	SANITARY SEWER
EXT	EXTERIOR	SCHED	SCHEDULE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	SF	SQUARE FOOT OR FEET
FIG	FIGURE	SHT	SHEET(ED)(ING)
FIN	FINISH(D)	SQ	SQUARE
FIN GR	FINISH GRADE	SR	STATE ROAD
FL	FLANGED JOINT	SS	SANITARY SEWER, STAINLESS STEEL
FL	FLANGED	ST	STREET
FM	FORCE MAIN	STA	STATION
FRP	FIBERGLASS REINFORCED PLASTIC	STD	STANDARD
FT	FOOT FEET	STL	STEEL
F/F	FACE TO FACE	STRUCT	STRUCTURAL
G	GAS MAIN	SW	SOUTHWEST
GAL	GALLON(S)	T	TEMP
GALV	GALVANIZED	TC, TOC	TOP OF CONCRETE
GIP	GALVANIZED IRON PIPE	TEL, TELE	TELEPHONE
GR	GRADE	TEMP	TEMP
GS	GALVANIZED STEEL	TF	TOP FACE
GSP	GALVANIZED STEEL PIPE	THD	THREAD(ED)
GV	GATE VALVE	THK	THICK(NESS)
HB	HOSE BIBB	TOS	TOP OF BANK
HDP	HIGH-DENSITY POLYETHYLENE	TOE	TOE OF SLOPE
HGT	HEIGHT	TOS	TOE OF SLOPE; TOP OF STEEL
HORIZ	HORIZONTAL	TYP	TYPICAL
HWL	HIGH WATER LEVEL	T&B	TOP AND BOTTOM
HWY	HIGHWAY	UG	UNDERGROUND
ID	INSIDE DIAMETER	UC	UTILITY CROSSING
IF	INSIDE FACE	UGE	UNDERGROUND ELECTRIC
IN	INCH(ES)	VCP	VITRIFIED CLAY PIPE
IN	INFLUENT	VERT	VERTICAL
INT	INTERSECTION	VOL	VOLUME
INV	INVERT	W	WATER, WEST
IP	IRON PIPE	WM	WATER MAIN
IPS	INTERNATIONAL PIPE STANDARD; IRON PIPE SIZE	WS	WATER SURFACE
LF	LINEAR FEET	WWF	WELDED WIRE FABRIC
LP	LIGHT POLE	WWM	WELDED WIRE MESH
LR	LONG RADIUS	W/O	WITHOUT
LWL	LOW WATER LEVEL	YD	YARD(S)



DETAIL/SECTION KEY

PROJECT CONTACTS

TYPE	ORGANIZATION	ADDRESS	TELEPHONE	CONTACT PERSON
LINE LOCATIONS	SUNSHINE STATE ONE--CALL OF FLORIDA, INC.	7797 N. UNIVERSITY DR., SUITE 204 FT. LAUDERDALE, FL. 33321	(800) 432-4770	CALL 48 HRS BEFORE DIGGING
INTERNET/TELEPHONE	UNITI FIBER, LLC.	200 CUMBERLAND PARK DR. ST. AUGUSTINE, FL 32095	(904) 718-8152	BOB MENSCHING
ELECTRIC	FPL	2900 CATHERINE ST. PALATKA, FL 32177	(561) 401-6186	JAMIE PURNELL
INTERNET/TELEPHONE	WINDSTREAM FLORIDA, INC.	206 WHITE AVE. S.E. ALACHUA, FL 32064	(386) 462-6530	GARY CARY
CABLE T.V.	COMCAST	5934 RICHARD ST JACKSONVILLE, FL 32216	(904) 738-0685	LARRY PAYNE
GAS	CITY OF CRESCENT CITY	3 NORTH SUMMIT STREET CRESCENT CITY, FL 32112	(386) 698-2525 EXT. 223	JOHN TURNEY OPERATIONS/DISTRIBUTION
WATER & SEWER	CITY OF CRESCENT CITY	3 NORTH SUMMIT STREET CRESCENT CITY, FL 32112	(386) 698-2525	KEITH HARRIS PUBLIC WORKS DIRECTOR
OWNER	CITY OF CRESCENT CITY	3 NORTH SUMMIT STREET CRESCENT CITY, FL 32112	(386) 698-2525	CHARLES RUDD CITY MANAGER
DESIGN ENGINEER	MITTAUER & ASSOCIATES, INC.	580-1 WELLS ROAD ORANGE PARK, FL 32073	(904) 278-0030	JARROD P. PETROHOVICH, P.E.

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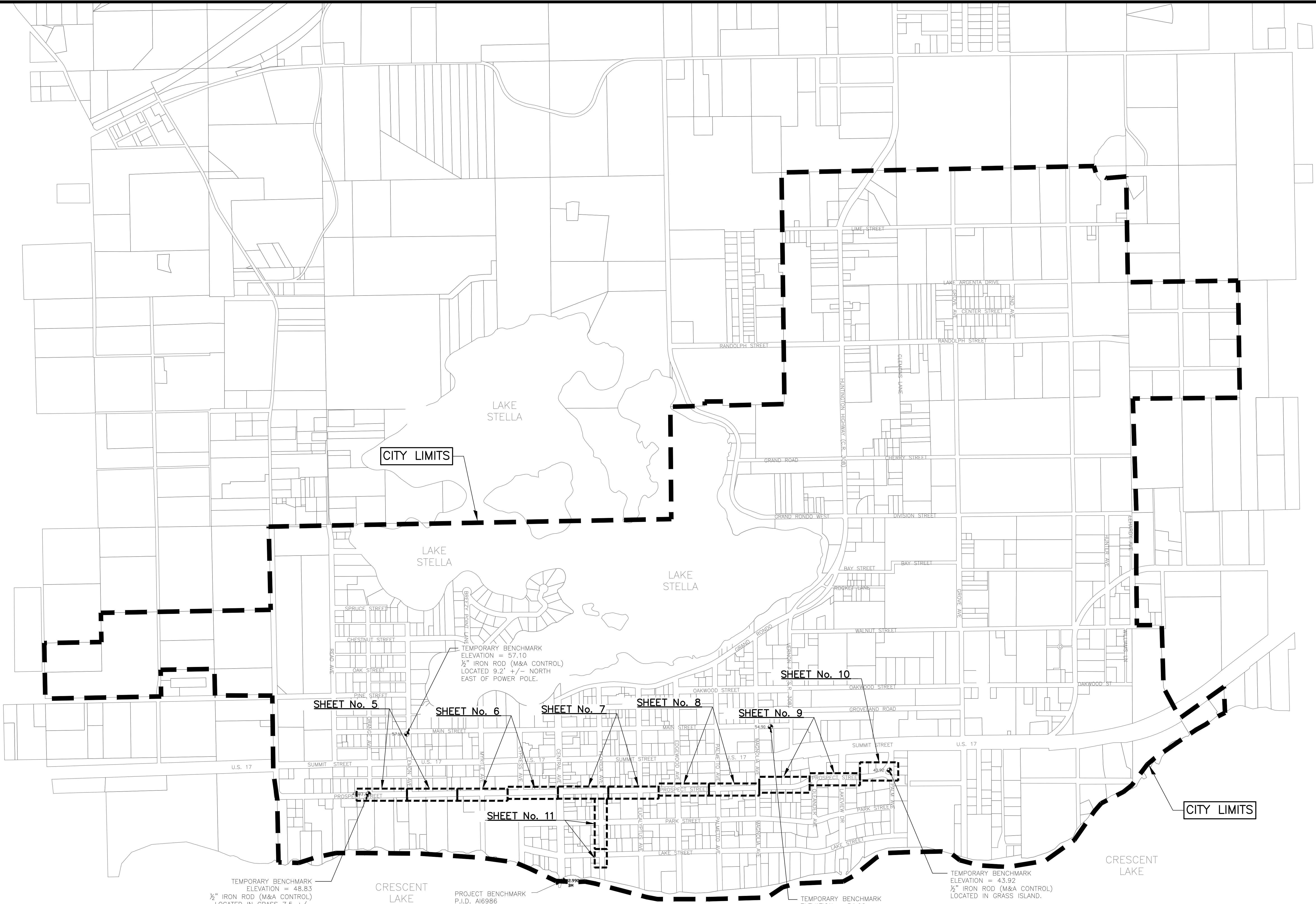
MITTAUER & ASSOCIATES, INC.
CONSULTING ENGINEERS

580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
TEL. (904) 278-0030 FAX. (904) 278-0840
FLORIDA RY NO. 6569

CITY OF CRESCENT CITY
Prospect St. Water Main Replacement
General Notes, Abbreviations and Legend
Putnam County, Florida

JOB NO.
9318-64-1
SHEET NO.
2

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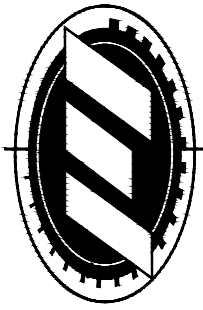


SCALE: 1" = 500'

CITY OF CRESCENT CITY
Prospect St. Water Main Replacement
Key Map
Putnam County, Florida

JOB NO.
9318-64-1
SHEET NO.

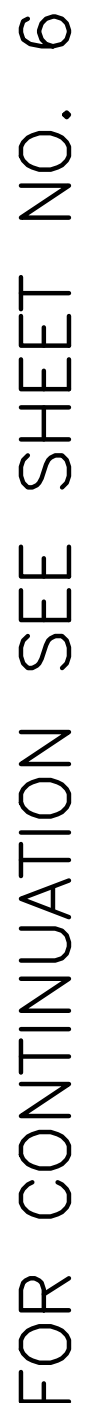
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MITTAUER
& ASSOCIATES, INC.
CONSULTING ENGINEERS
580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
TEL. (904) 278-0030 FAX. (904) 278-0840 FLORIDA RY NO. 6569

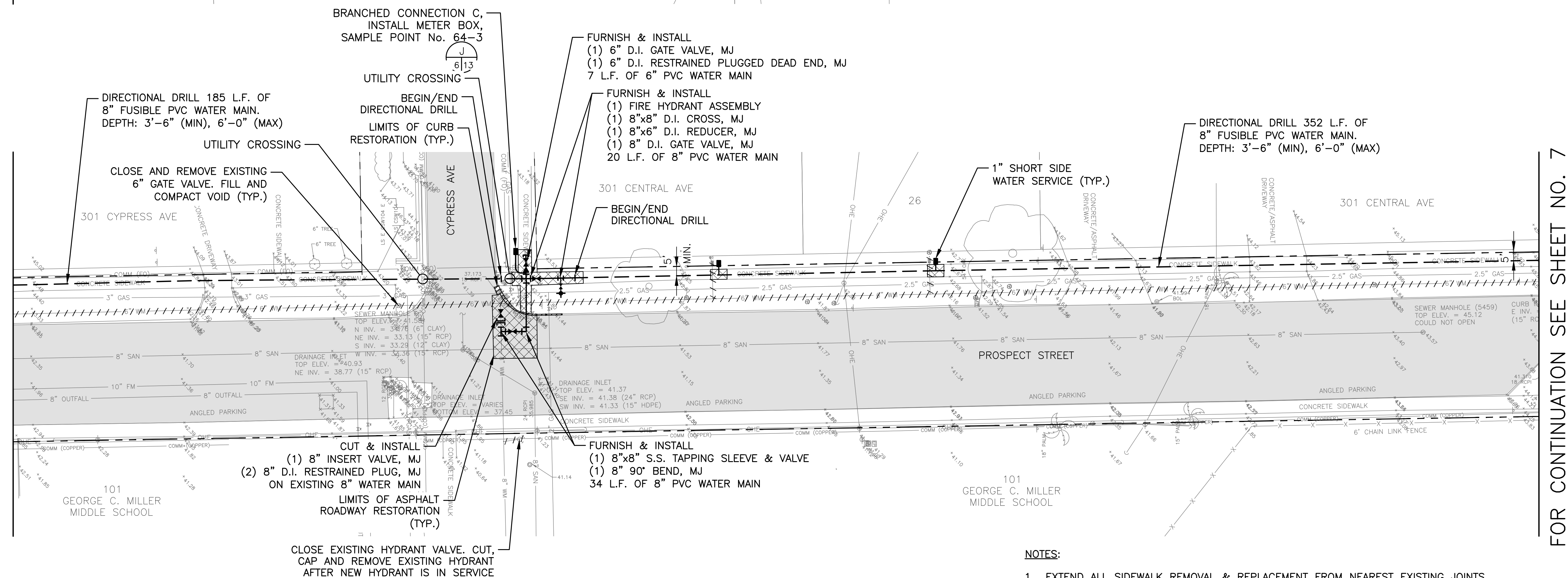
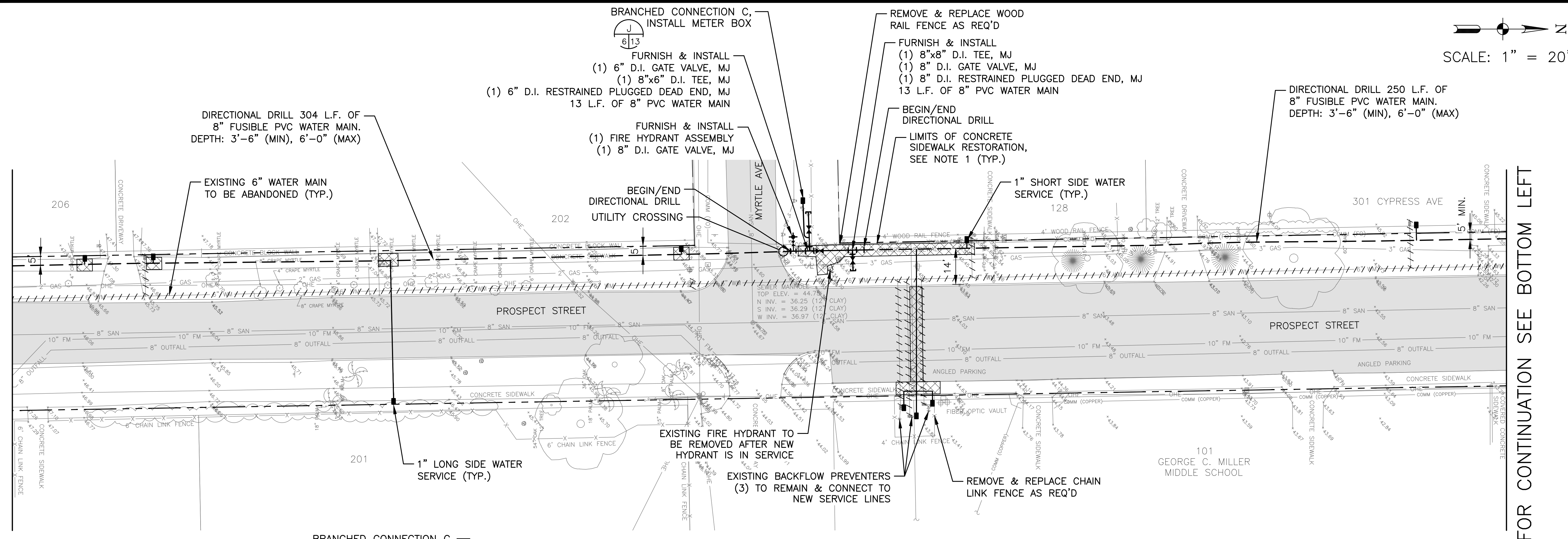
DESIG. JPP
DRAW. DHS
PROJ. MGR. JRS
DATE 11/03/23
1" = 1" INCH

NO.	DATE	BY	REVISION DESCRIPTION



- NOTES:

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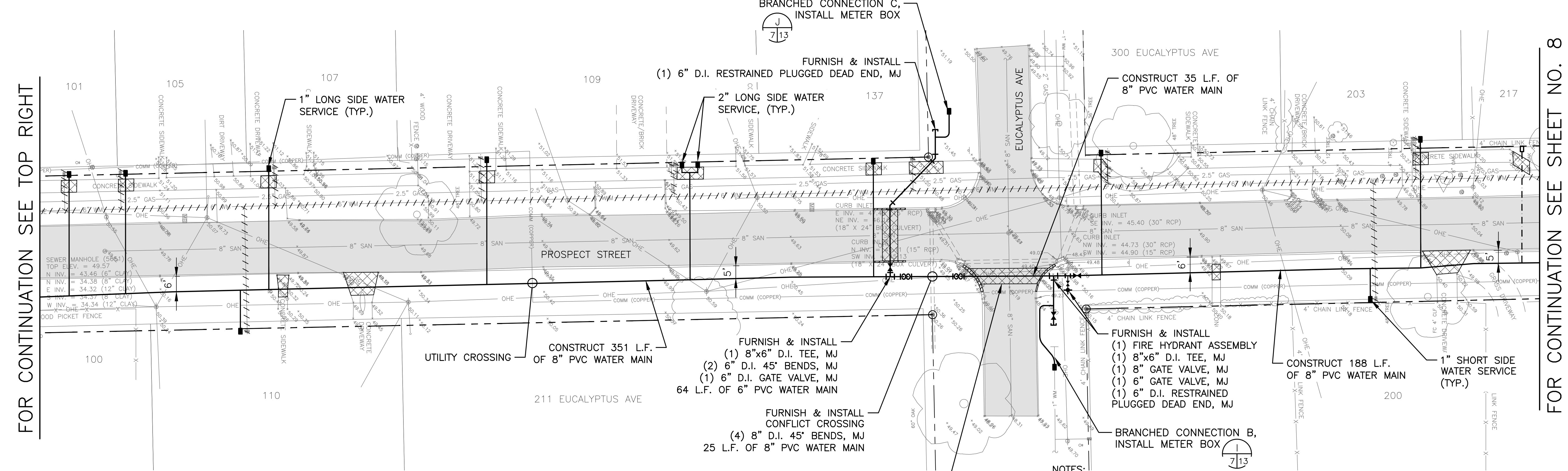
NOTES:

1. EXTEND ALL SIDEWALK REMOVAL & REPLACEMENT FROM NEAREST EXISTING JOINTS.
2. REMOVE/CAP OLD WATER SERVICE. CONNECT TO EXISTING SERVICE PIPING AT R.O.W. LINE. SEE DETAILS ON SHEET 9.
3. PROTECT EXISTING MONITORING WELLS DURING ALL PHASES OF CONSTRUCTION.
4. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING METER AND RELOCATE PROPOSED METER BOX NEARBY.
5. THE CONTRACT INCLUDES ADDITIVE ALTERNATE WATER SERVICES TO EXTEND WATER TO VACANT PARCELS FOR FUTURE CONNECTION/USE. THE OWNER WILL DIRECT WHICH SERVICES TO COMPLETE.

CITY OF CRESCENT CITY
Prospect St. Water Main Replacement
Prospect St – Myrtle Ave to Cypress Ave
Putnam County, Florida

JOB NO.
9318-64-1
SHEET NO.

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FOR CONTINUATION SEE SHEET NO. 8

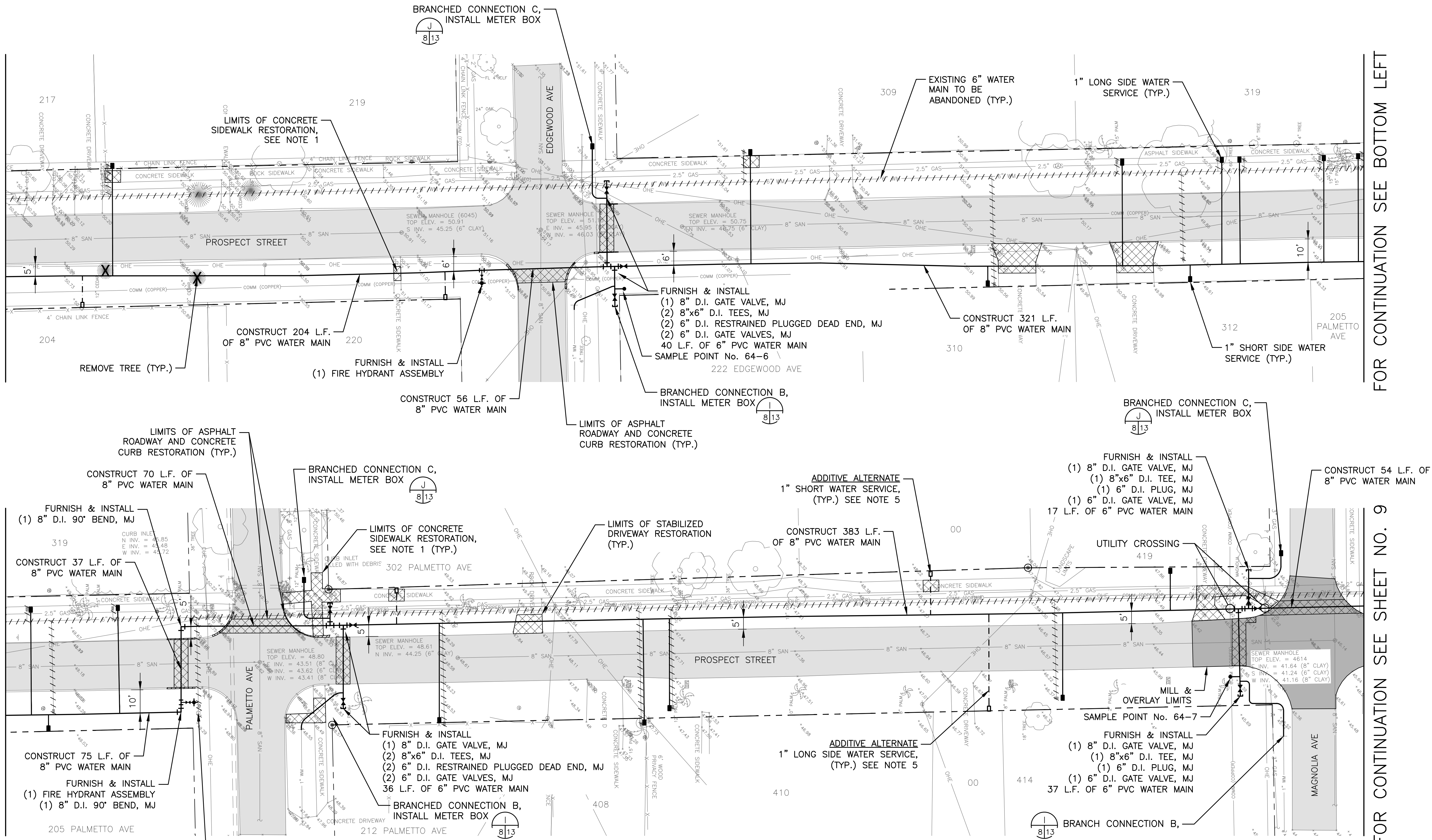
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NOTES:

1. EXTEND ALL SIDEWALK REMOVAL & REPLACEMENT FROM NEAREST EXISTING JOINTS.
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SCALE: 1" = 20'

FOR CONTINUATION SEE BOTTOM LEFT

FOR CONTINUATION SEE SHEET NO. 9

MITTALDER & ASSOCIATES, INC.
CONSULTING ENGINEERS
580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
TEL. (904) 278-0030 FAX. (904) 278-0840

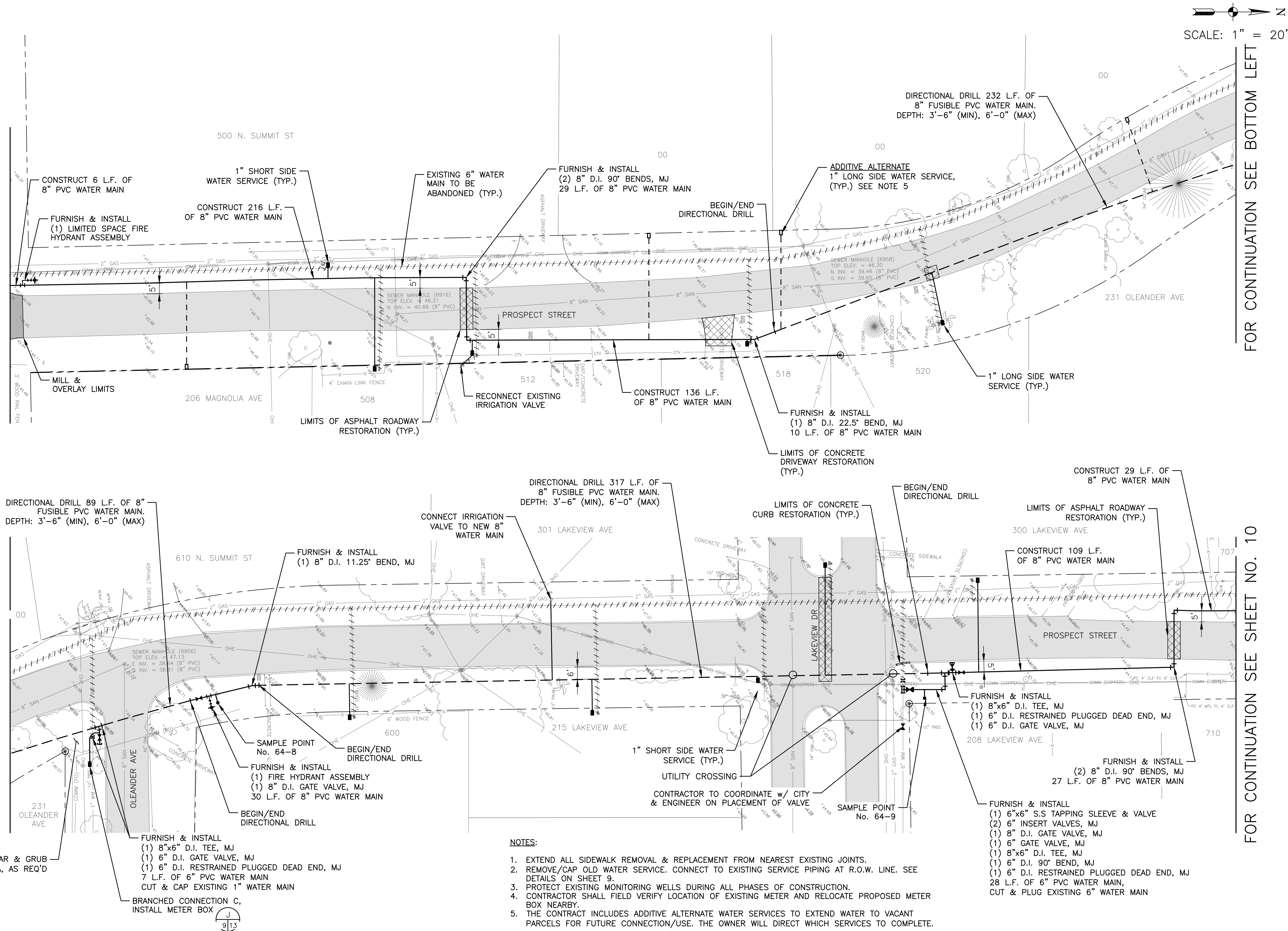
CITY OF CRESCENT CITY
Prospect St. Water Main Replacement
Prospect St - Edgewood Ave to Magnolia Ave
Putnam County, Florida

JOB NO.
9318-64-1
SHEET NO.
8

DESIGN: JPP
DRAWN: DHS
PROJ. MGR: JRS
DATE: 11/03/23
1" = 1" INCH

NO.	DATE	BY	REVISION DESCRIPTION

FOR CONTINUATION SEE TOP RIGHT



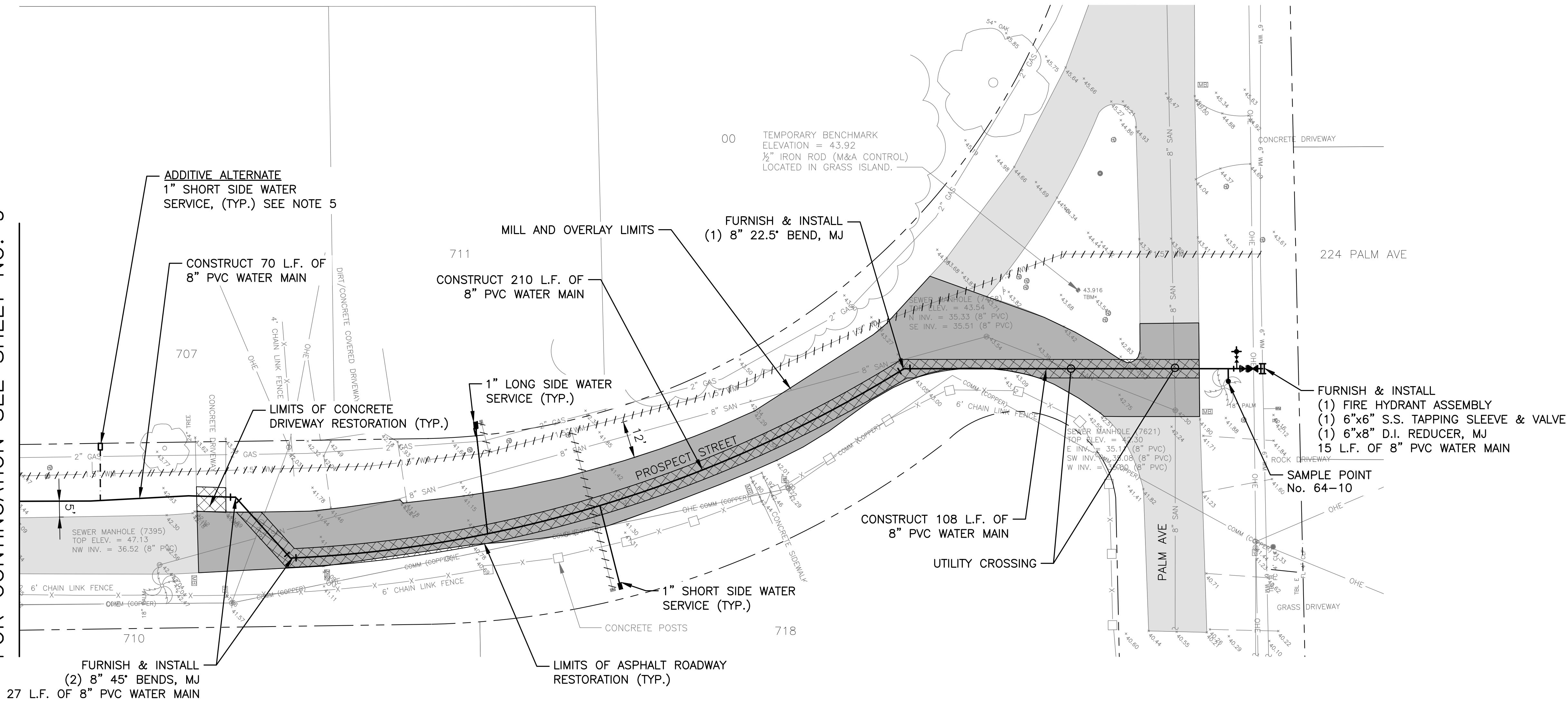
FOR CONTINUATION SEE SHEET NO. 10

FOR CONTINUATION SEE BOTTOM LEFT

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FOR CONTINUATION SEE SHEET NO. 9

SCALE: 1" = 20'



NOTES:

1. EXTEND ALL SIDEWALK REMOVAL & REPLACEMENT FROM NEAREST EXISTING JOINTS.
2. REMOVE/CAP OLD WATER SERVICE. CONNECT TO EXISTING SERVICE PIPING AT R.O.W. LINE. SEE DETAILS ON SHEET 9.
3. PROTECT EXISTING MONITORING WELLS DURING ALL PHASES OF CONSTRUCTION.
4. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING METER AND RELOCATE PROPOSED METER BOX NEARBY.
5. THE CONTRACT INCLUDES ADDITIVE ALTERNATE WATER SERVICES TO EXTEND WATER TO VACANT PARCELS FOR FUTURE CONNECTION/USE. THE OWNER WILL DIRECT WHICH SERVICES TO COMPLETE.

CITY OF CRESCENT CITY
Prospect St. Water Main Replacement
Prospect St – Palm Ave
Putnam County, Florida

JOB NO.
9318-64-1
SHEET NO.

10

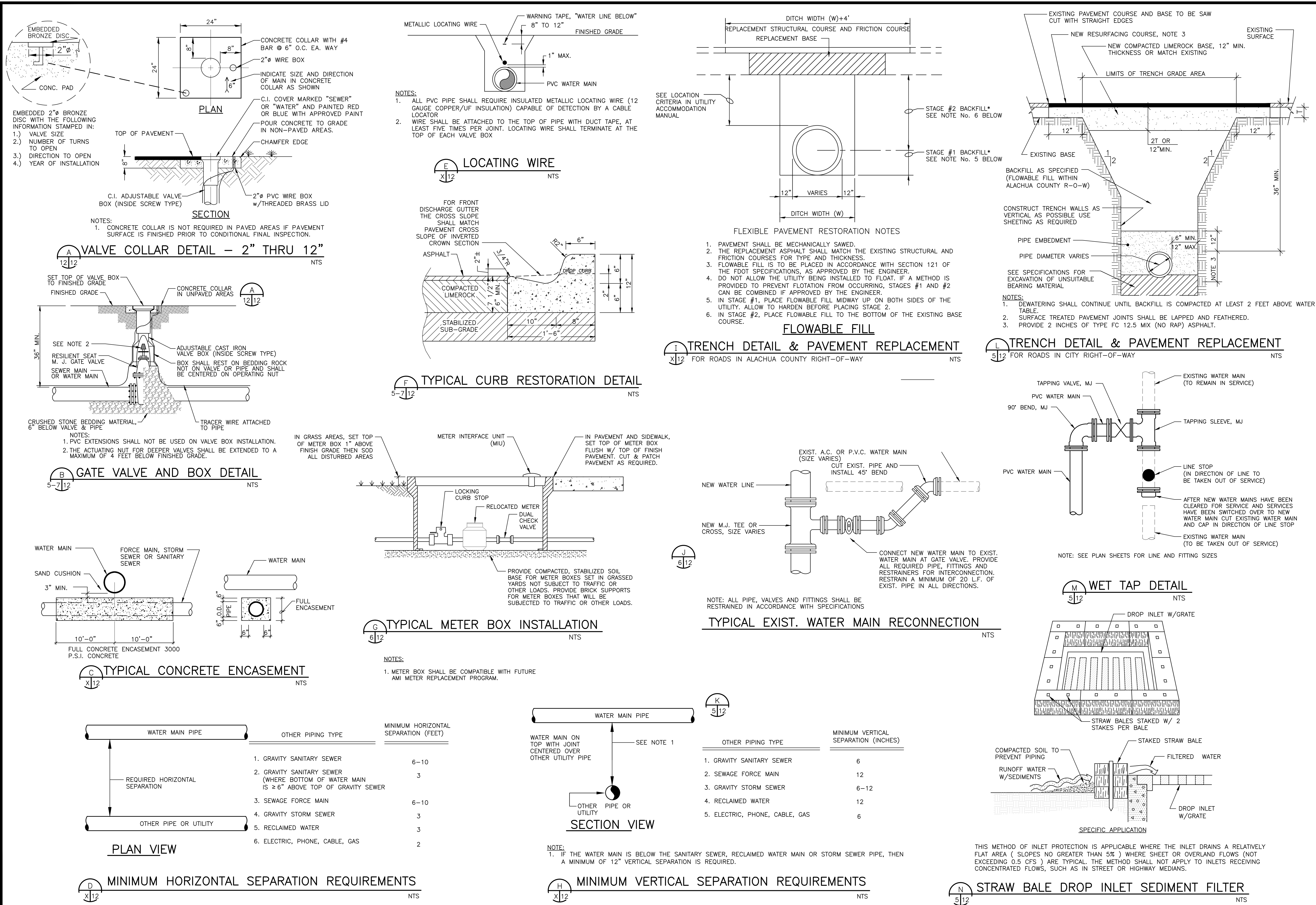


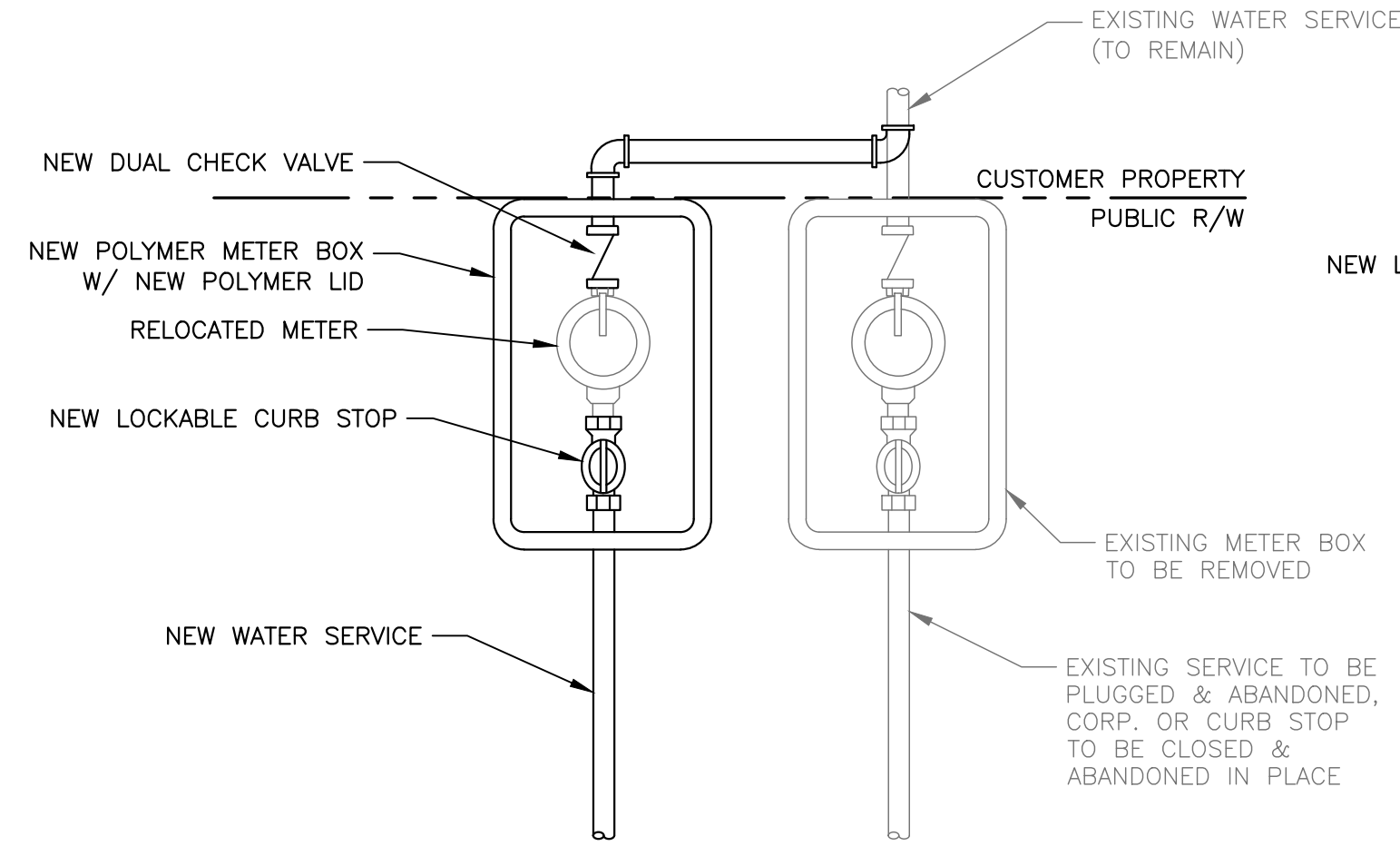
MITTAUER & ASSOCIATES, INC.
CONSULTING ENGINEERS
580-1 WELLS ROAD, ORANGE PARK, FLORIDA 32073
TEL. (904) 278-0030 FAX. (904) 278-0840

DESIGNER JPP
DRAWN DHS
PROJECT MGR. JRS
DATE 11/03/23
1 INCH

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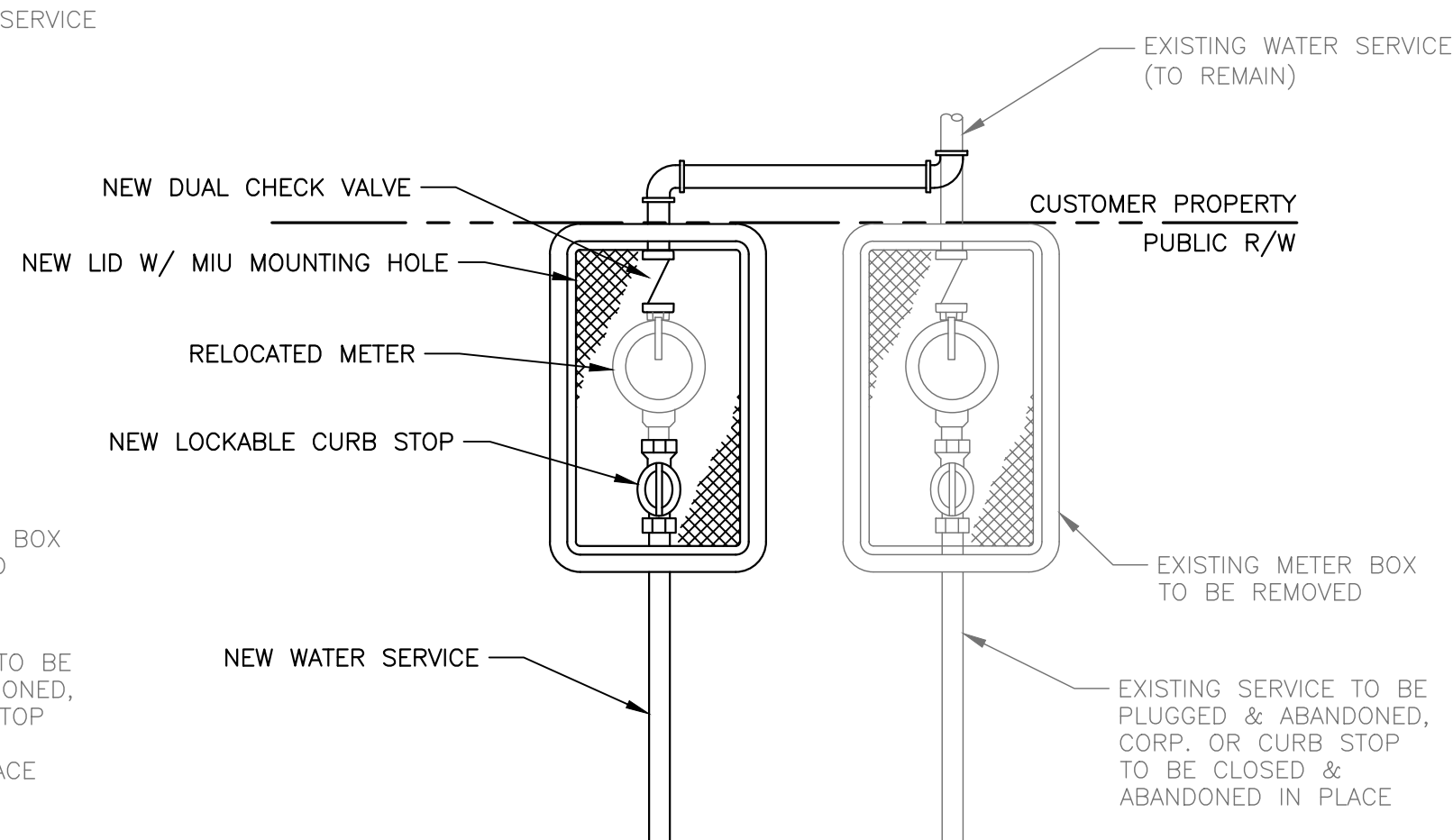
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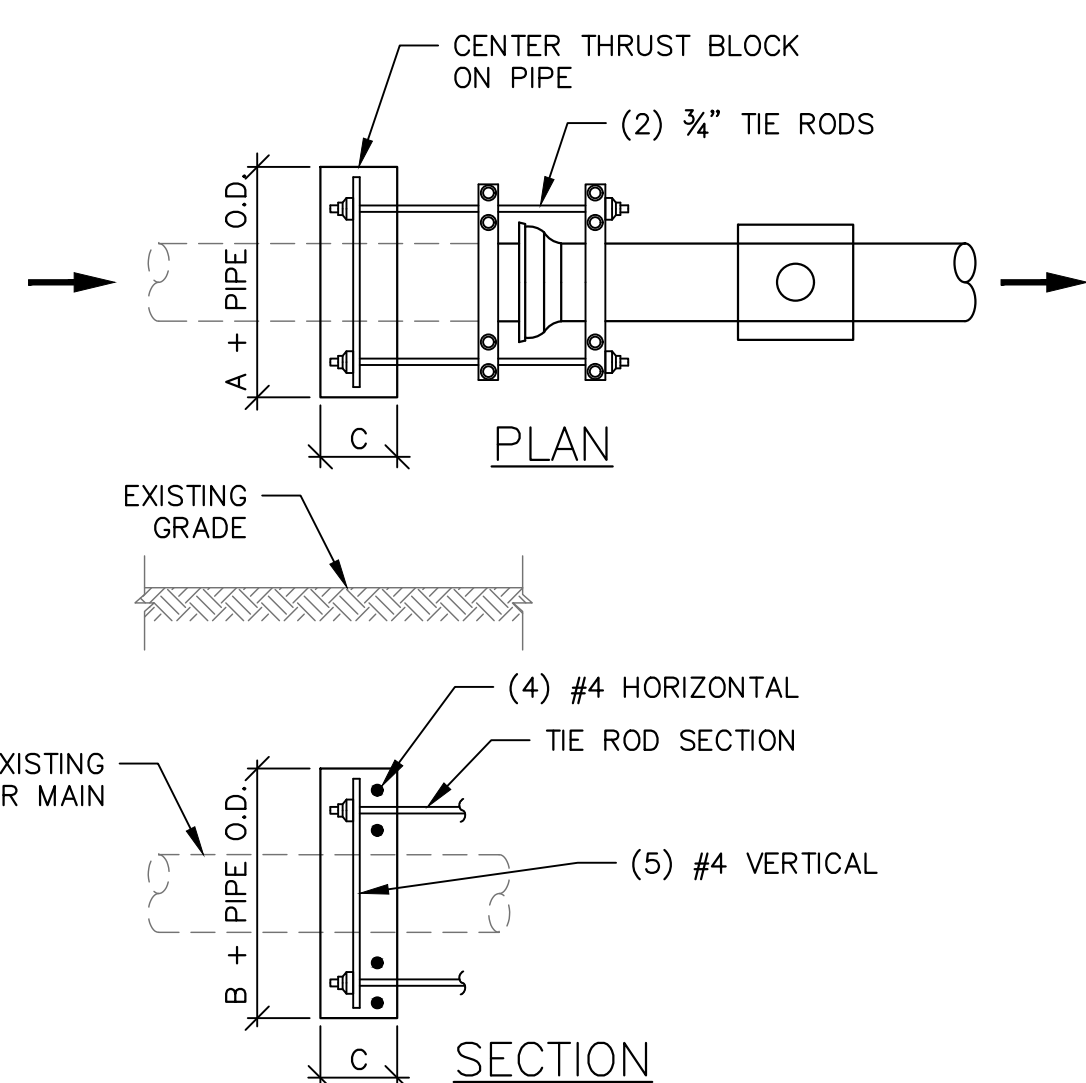
WATER METER REPLACEMENT DETAIL
(ALL 3/4" METERS)
(1" RESIDENTIAL METERS)

A
5/13
NTS



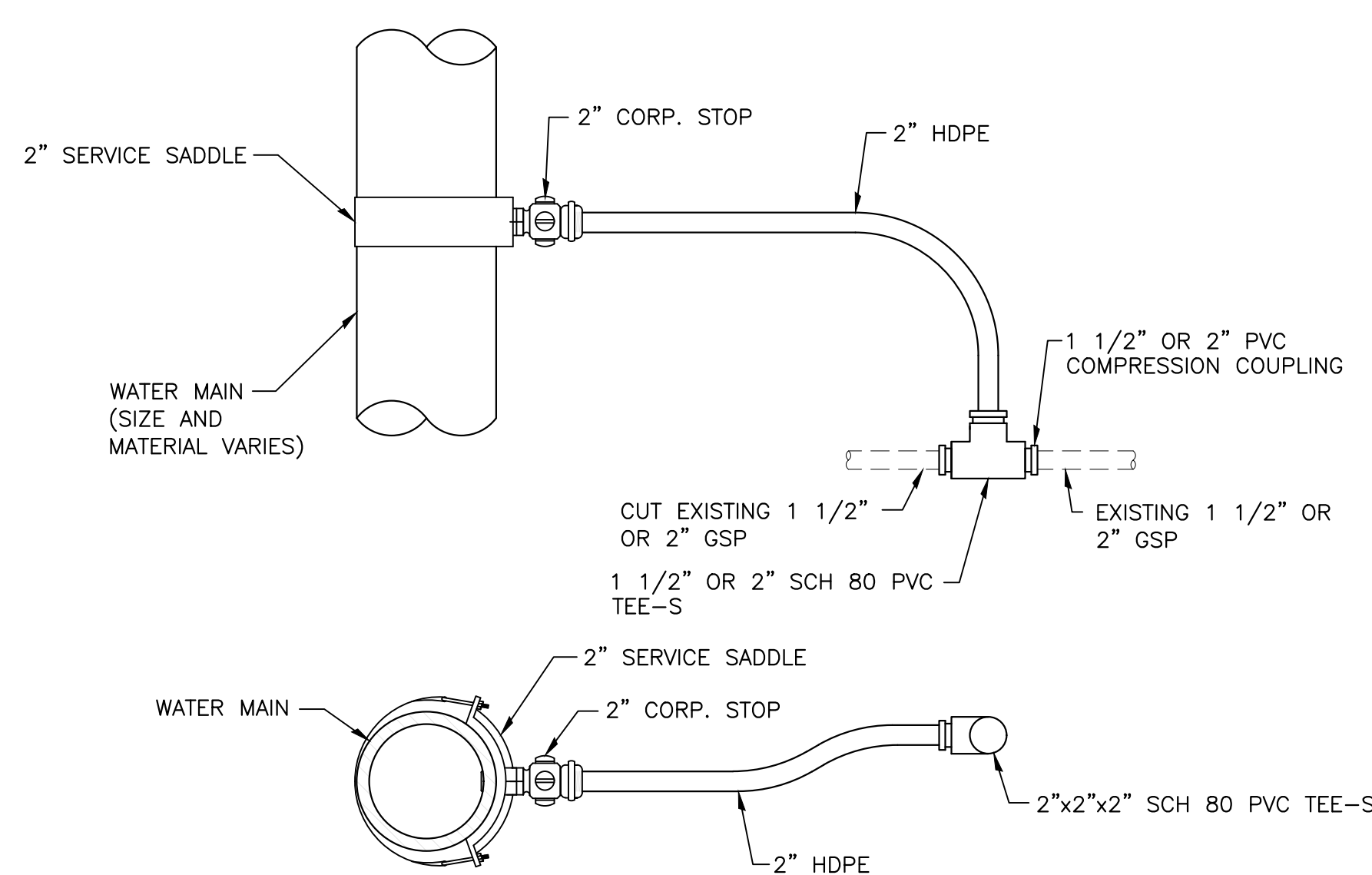
WATER METER REPLACEMENT DETAIL
(3/4" & 1" IN CONCRETE PAVEMENT)

D
X/13
NTS



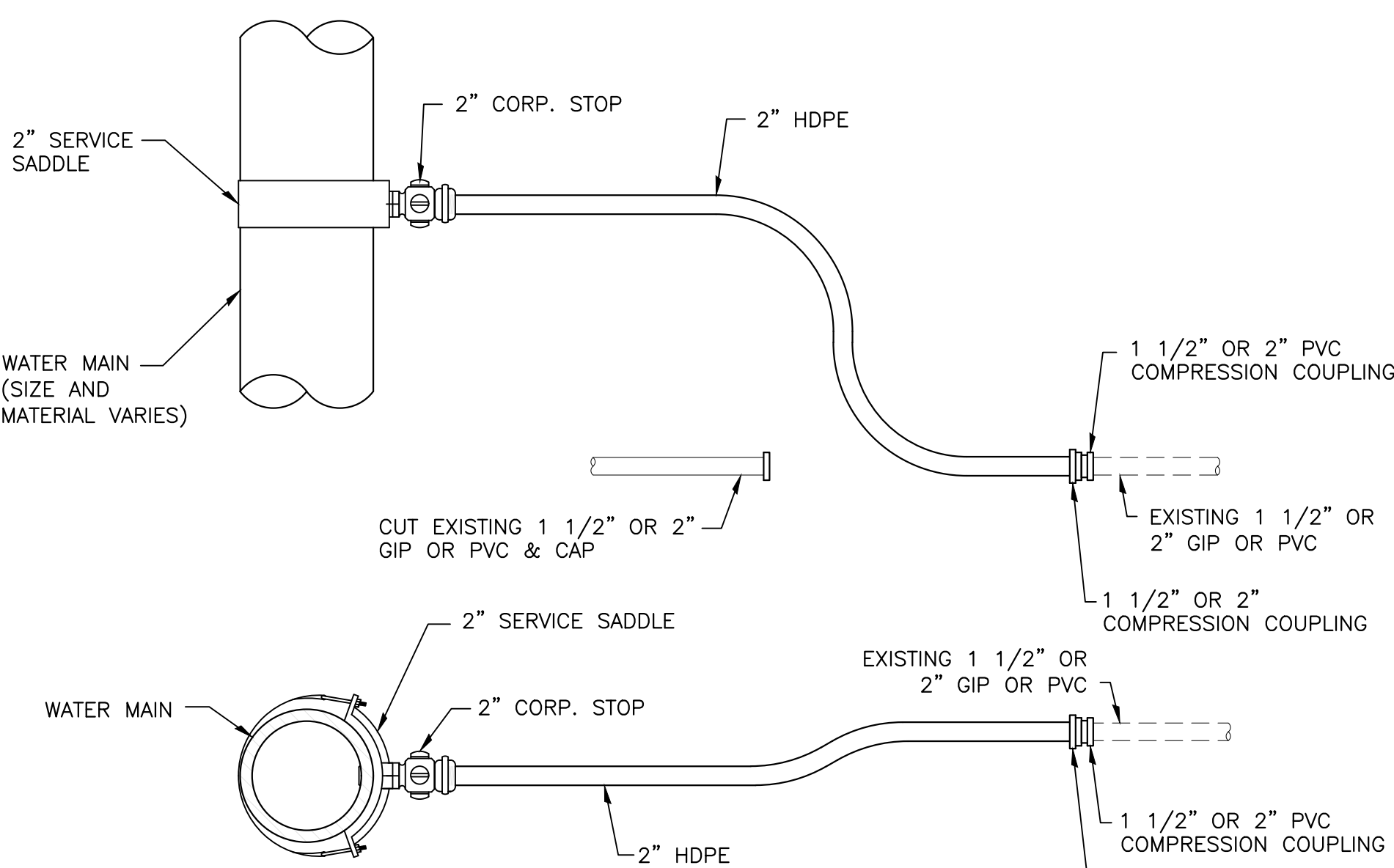
RESTRAINED LINE STOP DETAIL

E
X/13
NTS



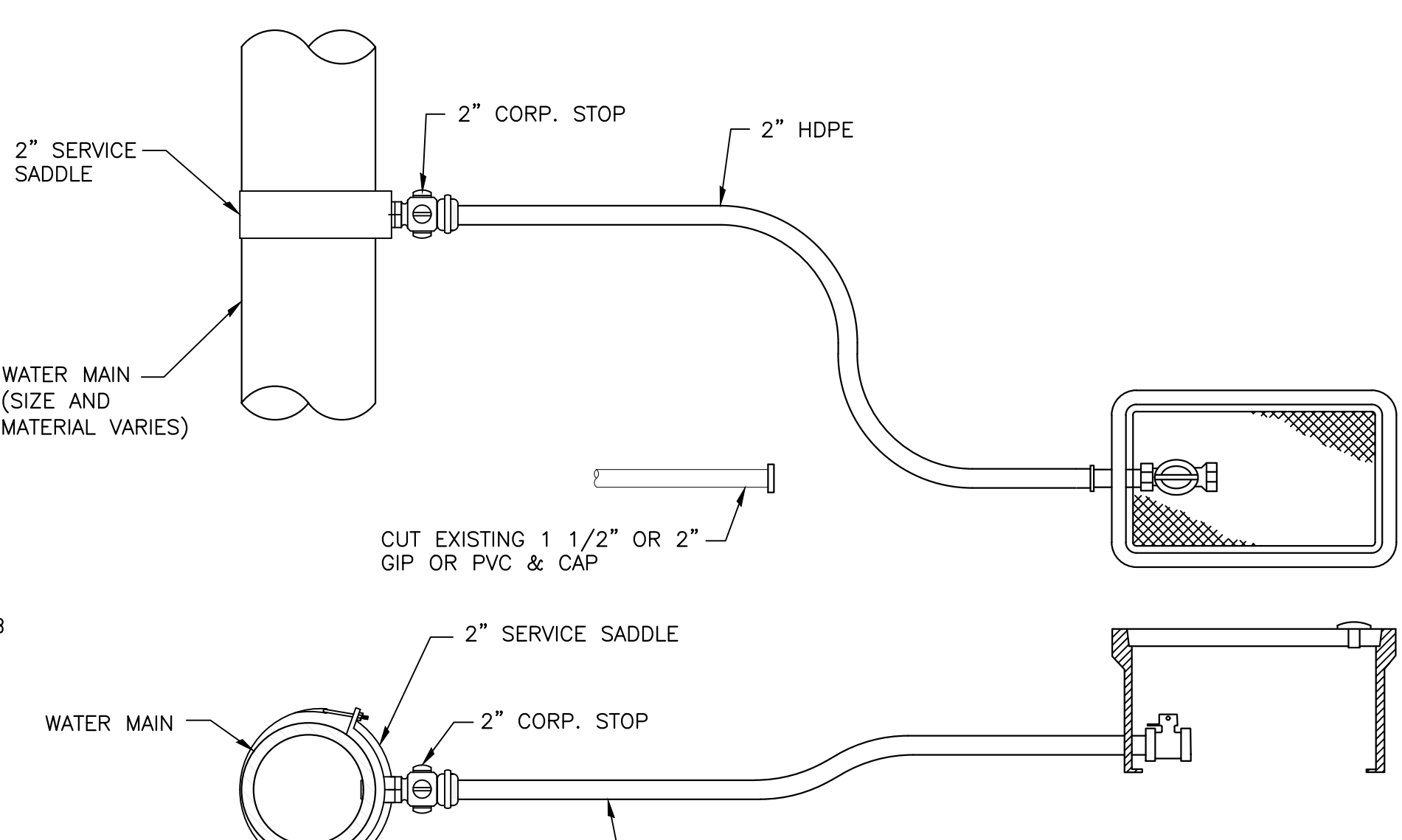
BRANCH CONNECTION DETAIL A

H
5/6/13
NTS



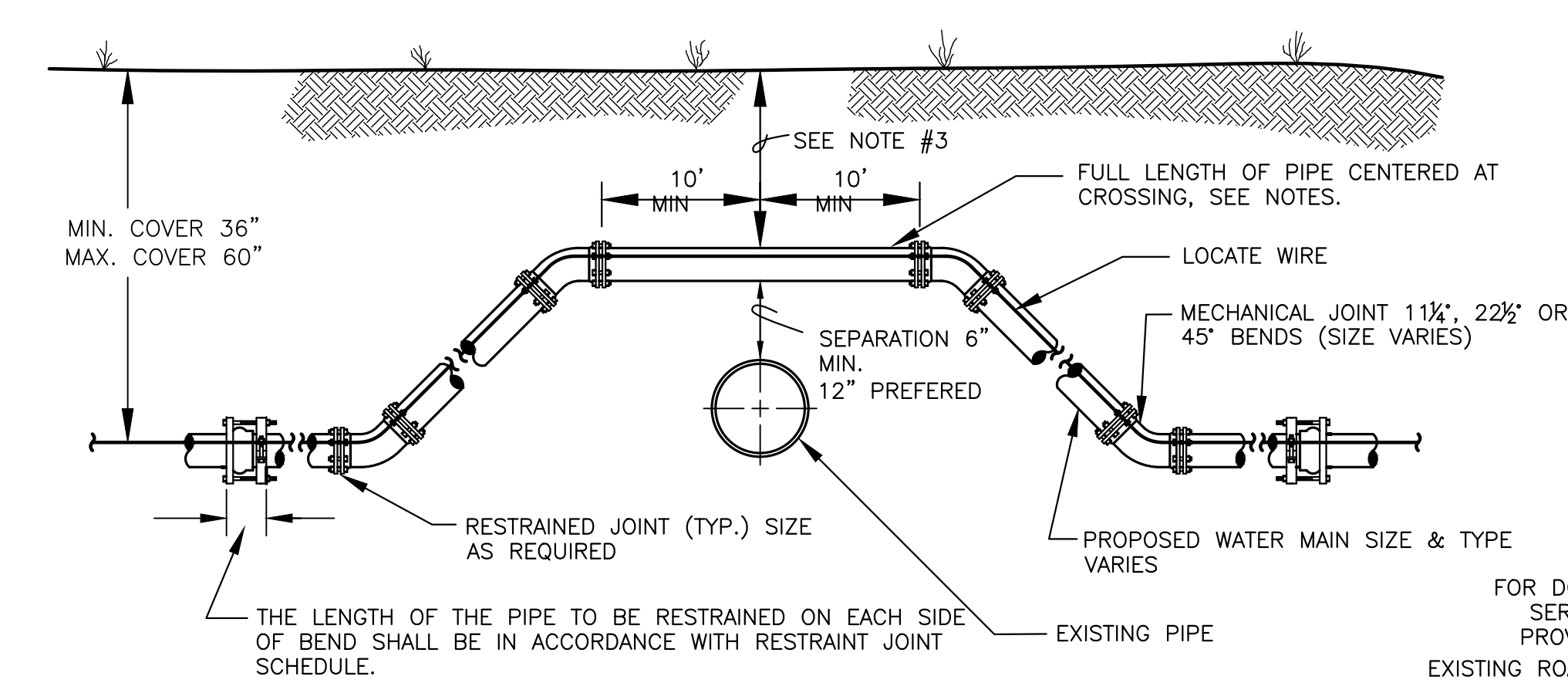
BRANCH CONNECTION DETAIL B

I
X/13
NTS



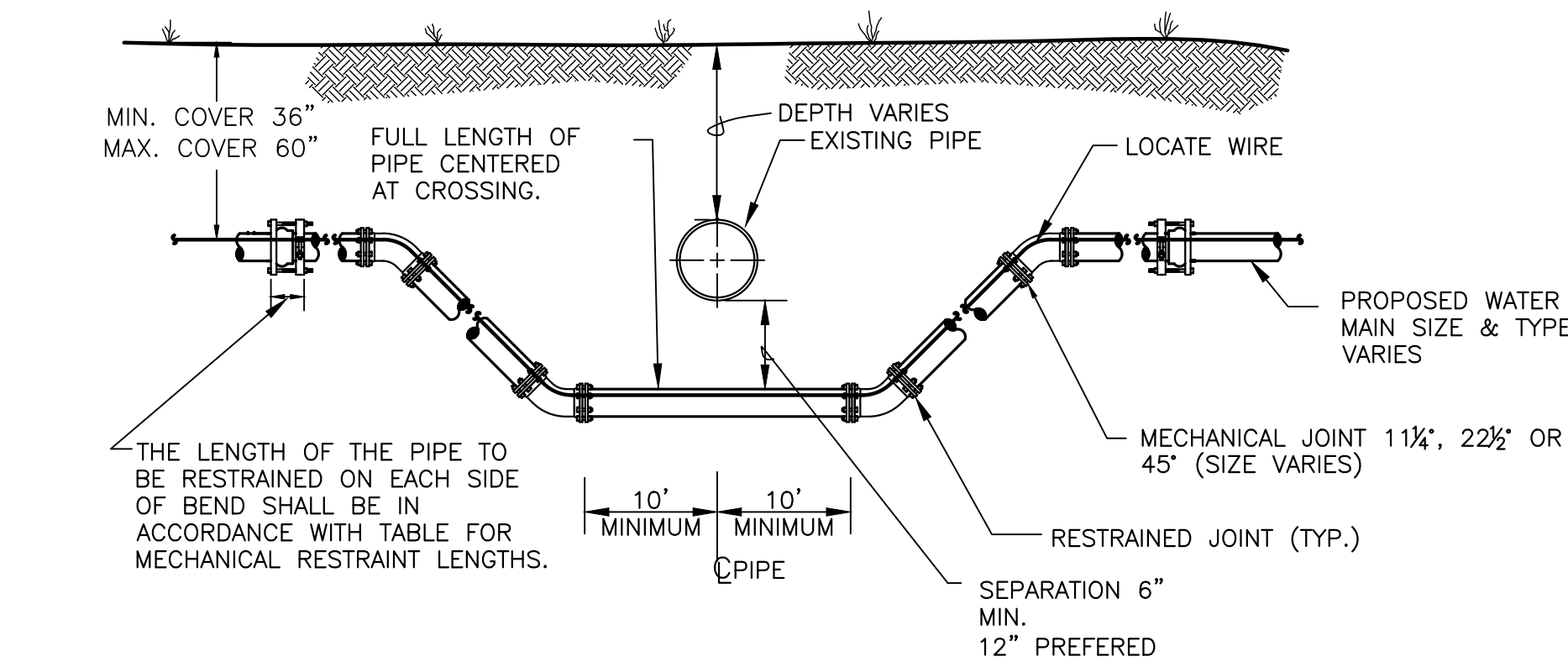
BRANCH CONNECTION DETAIL C

J
6/7/13
NTS



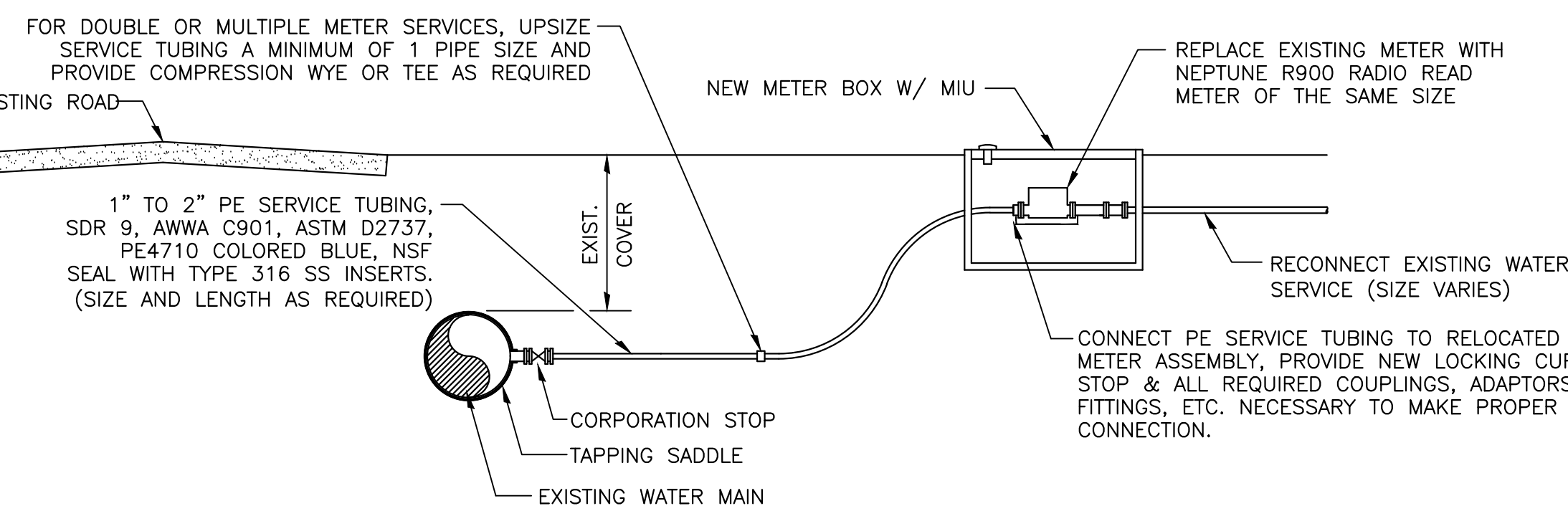
TYPE "A" CROSSING

B
X/13
NTS



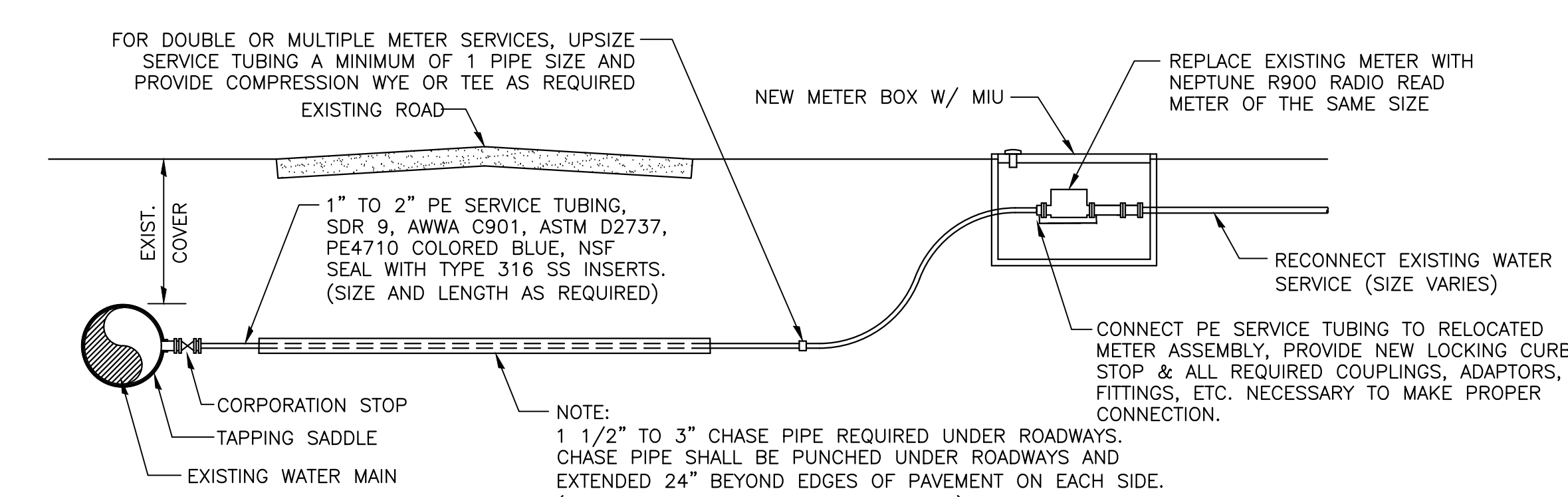
TYPE "B" CROSSING

C
X/13
NTS



WATER SERVICE REPLACEMENT DETAIL - SHORT SIDE OF ROAD

F
5-7/13
NTS

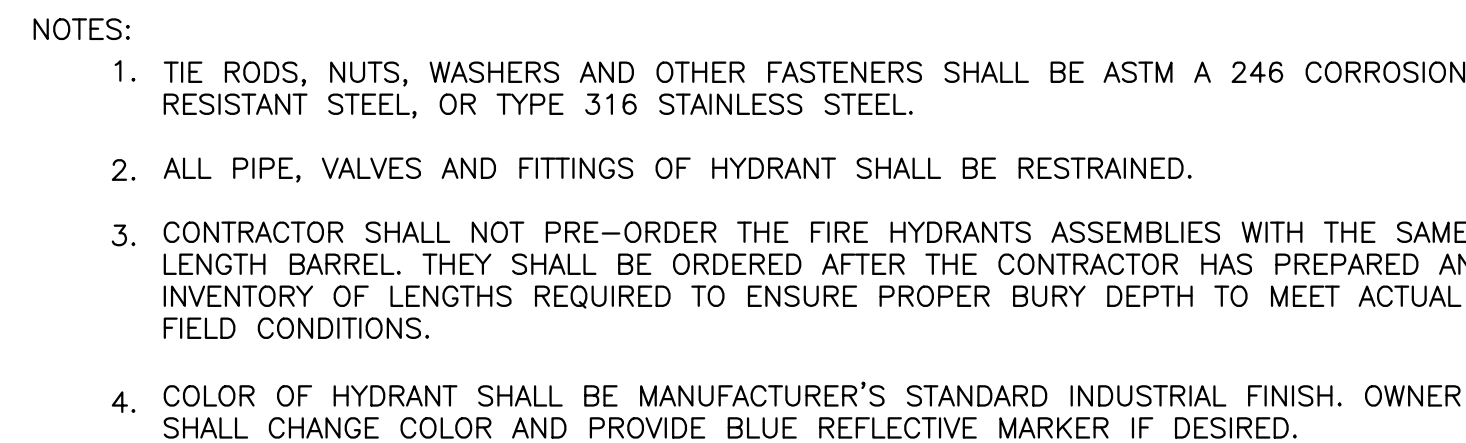


WATER SERVICE REPLACEMENT DETAIL - LONG SIDE OF ROAD

G
5-7/13
NTS

- NOTES:
1. THE SOILS BETWEEN THE NEW MAIN AND THE EXISTING PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
 2. MINIMUM VERTICAL SEPARATION REQUIREMENTS MUST BE ACHIEVED.
 3. IF UTILITY CONFLICT IS LOCATED IN A NON-TRAFFIC AREA (NO TRAFFIC LOADS) AND THE NEW PIPE IS D.I.P., THEN THE MINIMUM COVER MAY BE REDUCED TO 24 INCHES (ONLY IN THE AREA OF THE CONFLICT).

- NOTES:
1. THE SOILS BETWEEN THE NEW MAIN AND THE EXISTING PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557
 2. MINIMUM VERTICAL SEPARATION REQUIREMENTS MUST BE ACHIEVED.



6 | 14 NTS



NOTES:

1. IN LIEU OF BELL/ROD RESTRAINTS, MECHANICAL JOINT RESTRAINTS MAY BE USED.
2. LOCATING WIRE REQUIRED, UTILIZING A LOCATE WIRE BOX INSTALLED AT PLUG LOCATION.
3. NUMBER OF THE RODS REQUIRED IS AS FOLLOWS:

3" - 8" 10" - 12" 14" - 18" 18" - 20" 24" 30" - 36" 42" - 48" 54"	DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD) DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD) DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD) DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD) DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD) DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD) DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD) DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
----------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
4. THE LOCATION OF THE DEAD END PLUG SHALL NOT BE UNDER PAVEMENT, IF POSSIBLE. THE STUB OUT SHALL EXTEND BEYOND THE INTERSECTION AREAS OR ROAD CROSSING BY 10 FEET (MIN.) WHERE POSSIBLE.

X 14 NTS



X14 NTS



- 1) LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS) OF THE ROAD (WHERE APPLICABLE)
- 2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL PIPING & FITTINGS NOTED AFTER BACTERIOLOGICAL CLEARANCE FROM THE HEALTH DEPARTMENT.

X 14 NTS



OR LARGER PVC WATER

DETAIL - A



" OR LARGER D.I. WATER MAIN

DETAIL - B



VALVE BOX WITH VALVE



METER BOX

DETAIL - C

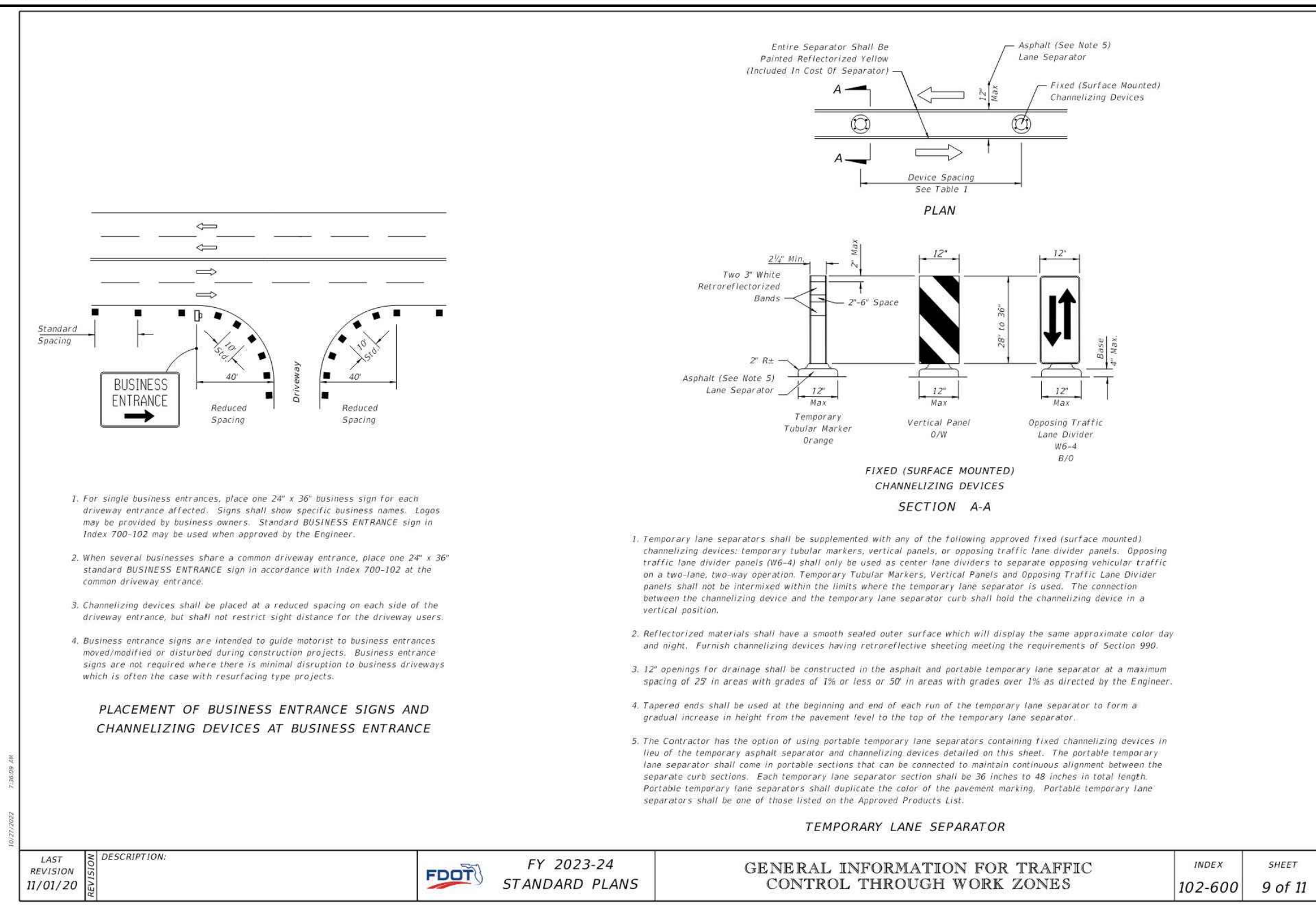
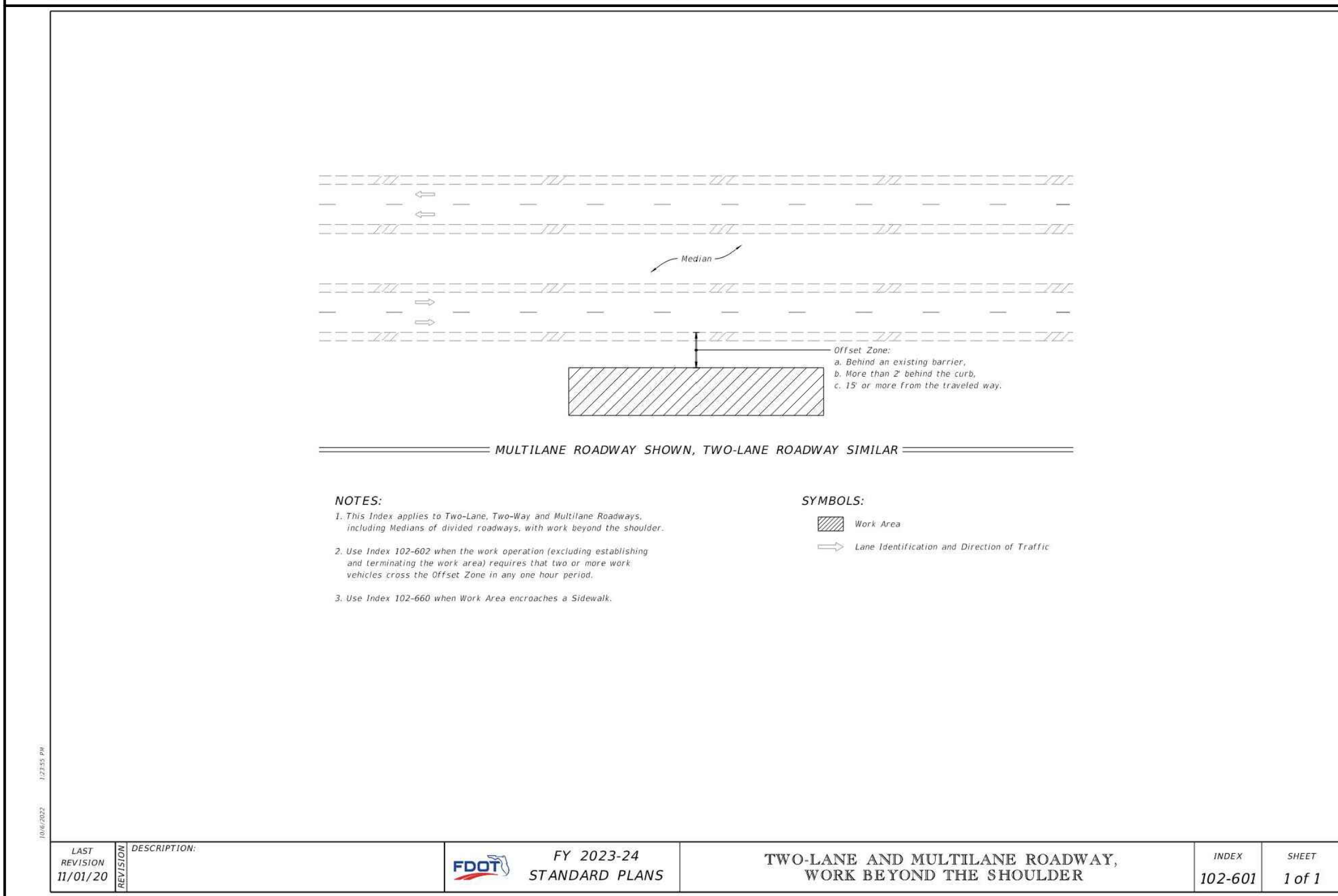
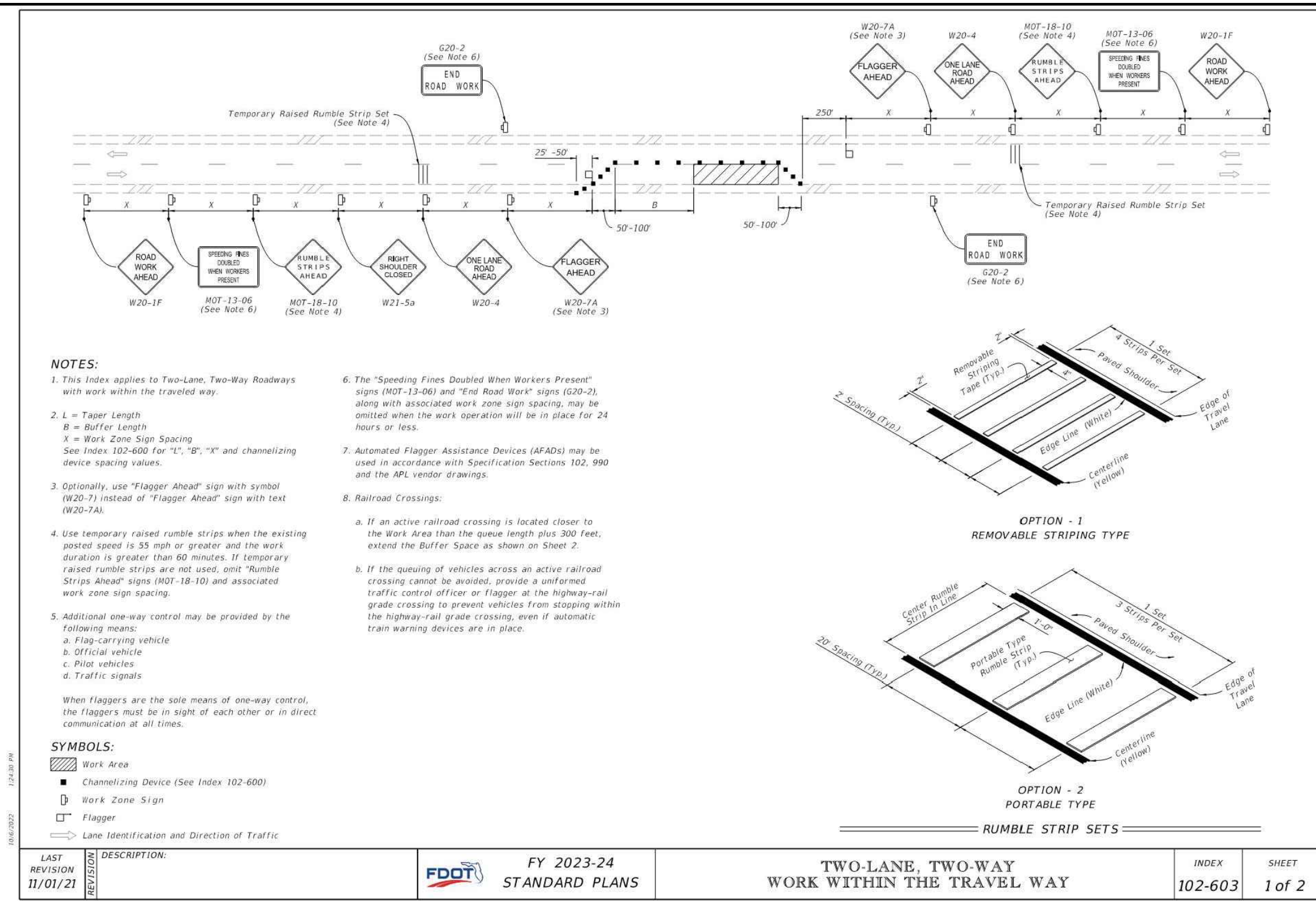
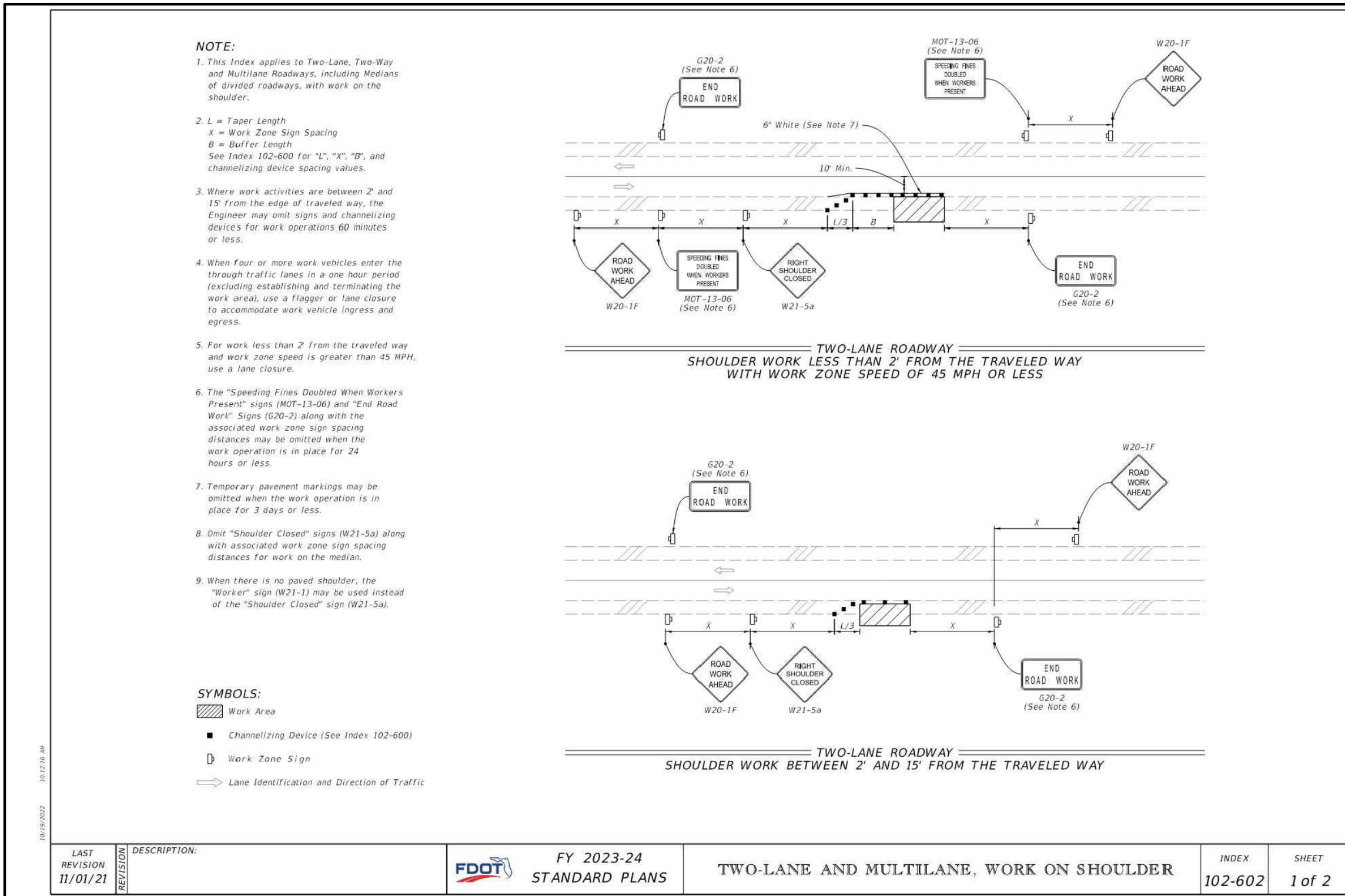
- NOTES:
- DETAIL - C
1. LOCATING WIRE, SEE SPECIFICATION 02513 FOR REQUIREMENTS.
 2. BOXES SHALL NOT BE LOCATED IN SIDEWALKS OR DRIVEWAYS. LOCATE BOXES SPACING SHALL NOT EXCEED 500 FEET.
 3. WHERE IT IS NOT POSSIBLE TO LOCATE THE BOX OUTSIDE OF A PAVED STREET OR PARKING LOT THE LOCATE WIRE SHALL BE PLACED IN A VALVE BOX INSTEAD OF A ROME BOX. VALVE BOX LID SHALL BE MARKED ACCORDING TO THE TYPE OF PIPE SERVED.



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TRAFFIC CONTROL GENERAL NOTES

1. THE EXISTING POSTED SPEED SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION. WORK ZONE SPEED SHALL NOT BE LESS THAN POSTED SPEED.
2. ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION SIGNS VISIBLE DURING CONSTRUCTION OPERATIONS TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
4. PLACE BUSINESS ENTRANCE SIGNS IN ACCORDANCE WITH FDOT INDEX 102-600, SHEET 9.
5. EXISTING GUIDE SIGNS AND APPLICABLE WARNING SIGNS ARE TO BE RELOCATED DURING CONSTRUCTION TO ALIGN WITH ALL PHASE TRAFFIC PATTERNS.
6. THE CONTRACTOR SHALL CONTACT TRANSIT AND SCHOOL AUTHORITIES FOR THEIR BUS STOP LOCATIONS AND SCHEDULES TO MAINTAIN SAFE ACCESS TO THE RIDERS AT ALL TIMES.
7. ALL LANE CLOSURES SHALL BE COORDINATED WITH LOCAL EMERGENCY SERVICES. A MINIMUM OF 24 HOURS NOTICE SHALL BE PROVIDED FOR ANY SCHEDULED WORK REQUIRING LANE CLOSURES OR DETOURS.



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CITY OF CRESCENT CITY
Prospect St. Water Main Replacement
Maintenance of Traffic
Putnam County, Florida

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