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Water Department

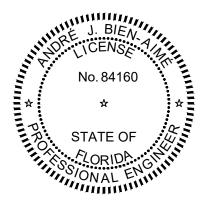
PLANS FOR:

ARMORY GARDENS WATER MAIN IMPROVEMENTS

TAMPA WATER DEPARTMENT WORK ORDER NO.: WTR-21-0014

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ON THE DATE ADJACENT TO THE SEAL

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ARMORY GARDENS WATER MAIN IMPROVEMENTS

COVER SHEET

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CITY OF TAMPA NOTES

- ALL WATER WORK FOR THE CITY OF TAMPA (CITY) SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT'S TECHNICAL SPECIFICATIONS, CONSTRUCTION DETAILS, AND THE TAMPA WATER DEPARTMENT TECHNICAL MANUAL (LATEST EDITION). IN THE EVENT OF A DISCREPANCY, THE MOST STRINGENT CRITERIA SHALL APPLY.
- THE CONTRACTOR SHALL NOT TAP ANY WATER MAIN WITHOUT A CITY INSPECTOR PRESENT. THE CONTRACTOR SHALL PROVIDE NOTICE TO THE CITY INSPECTOR AT A MINIMUM OF 5 WORKING DAYS PRIOR TO NECESSARY WORK AND COORDINATE PERFORMANCE OF TAP WITH THE CITY INSPECTOR
- NORMAL WORKING HOURS SHALL BE WEEKDAYS FROM 7:30 AM TO 4:00 PM UNLESS OTHERWISE APPROVED BY THE ENGINEER/INSPECTOR.
- ELEVATION INFORMATION SHOWN ON THESE PLANS IS REFERENCED TO N.A.V.D. 1988 LINESS OTHERWISE STATED
- CONSTRUCTION OF WATER FACILITIES SHALL BE COORDINATED WITH THE WATER DEPARTMENT PRIOR TO THE START OF THE CONSTRUCTION. CONTRACTOR TO CONTACT CITY OF TAMPA CONTRACT ADMINISTRATION DEPARTMENT @ 813-635-3432 TO COORDINATE/SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY FOR REVIEW OF INSTALLATION TECHNIQUES AND PROCEDURES A MINIMUM OF 10 WORKING DAYS PRIOR TO THE PLANNED CONSTRUCTION.
- EXISTING UTILITIES, BUILDINGS, GROUND ELEVATIONS, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. ALL CONDITIONS, DIMENSIONS, AND QUANTITIES AFFECTING REQUIRED WORK SHALL BE VERIFIED BY CONTRACTOR BEFORE BEGINNING WORK OR ORDERING MATERIALS.
- VALVES ON EXISTING PUBLIC WATER MAINS TO BE OPERATED BY CITY PERSONNEL ONLY.
- ALL PROPOSED WATER LINES SHALL BE MANUFACTURED AND INSTALLED PER THE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION (AWWA) AS PRESCRIBED BY FAC-62-555.320
- SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE CITY FOR ALL PROPOSED ITEMS. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE HIGH QUALITY PDF DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR RESTRAINING ALL EXISTING PIPE NECESSARY TO MAINTAIN A SAFE CONSTRUCTION AREA AND PERFORM THE WORK SHOWN IN THE PLANS. EXISTING PIPE REQUIRING RESTRAINTS SHALL UTILIZE EXTERIOR BELL RESTRAINTS.
- THE CONTRACTOR SHALL DEWATER ANY EXCAVATION OR TRENCH TO MAINTAIN A SAFE WORK ENVIRONMENT AND TO ABIDE BY AWWA INSTALLATION STANDARDS. DEWATERING IS AT THE EXPENSE OF THE CONTRACTOR.

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY PERMITS AND ROADWAY CLOSURES ASSOCIATED WITH THE WORK SHOWN IN THE PLANS.
- IN ORDER TO OBTAIN ROADWAY CLOSURES OR RIGHT-OF-WAY PERMITS, AT MINIMUM, THE CONTRACTOR MUST SUBMIT DETAILED MAINTENANCE OF TRAFFIC (MOT) PLANS ALONG WITH APPLICATIONS TO THE APPROPRIATE AGENCY. THE MOT(S) SHALL CONFORM TO APPLICABLE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DRAWINGS (MOST CURRENT EDITION). THE GOVERNING AGENCIES MAY REQUIRE ADDITIONAL INFORMATION AND DICTATE SPECIFIC WORK TIME DURING NON-PEAK TRAFFIC HOURS.

PROJECT

PIPE CLEARANCES

- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES AND SHALL MAINTAIN A MINIMUM OF THREE (3) FEET HORIZONTAL SEPARATION FROM OTHER UTILITIES, EXCEPT STORM, SANITARY, AND GAS, WHICH SHALL MAINTAIN TEN (10) FÉET HORIZONTAL SEPARATION, UNLESS OTHERWISE NOTED.
- 2. WATER MAIN SHALL CROSS ABOVE OTHER PIPES. WHEN WATER MUST BE BELOW, PROVIDE 12" MINIMUM VERTICAL SEPARATION UNLESS OTHERWISE NOTED.
- 3. CENTER ONE FULL JOINT OF PIPE UNDER/OVER ALL SANITARY, STORM, OR RECLAIMED PIPE CROSSINGS.

- ALL VALVES SHALL BE RIGHT HAND OPEN.
- 2. POLYWRAP ALL DUCTILE IRON PIPE (D.I.P) FITTINGS AND APPURTENANCES.
- ALL HARDWARE SHALL BE 304 STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- ALL BELOW GROUND BENDS SHALL BE MECHANICAL JOINT (MJ).
- RESTRAIN ALL JOINTS AND FITTINGS.
- CONCRETE THRUST BLOCKS SHALL NOT BE USED TO PROVIDE THRUST RESTRAINT. RESTRAINT OF PUSH-ON DIP (OTHER THAN FOR FITTINGS & VALVES) SHALL BE WITH APPROVED PUSH-ON "GRIPPER-TYPE" RESTRAINTS. FITTINGS AND VALVES SHALL BE CONNECTED TO PIPE WITH MEGALUGS, OR APPROVED EQUAL.
- 7. ALL POTABLE WATER SERVICE LATERAL, AIR RELEASE VALVES, AND TEMPORARY SAMPLE POINTS SHALL BE CONSTRUCTED OF BLUE SDR-9 HIGH DENSITY POLYETHYLENE (HDPE) TUBING. ALL HDPE TUBING SHALL BE INSTALLED WITHIN A CASING AS DEFINED IN THE SPECIFICATIONS AND DETAILS.

TESTING

- ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL BE PROPERLY PRESSURE TESTED. WITNESSED AND ACCEPTED BY THE CITY, PRESSURE TESTS TO BE PERFORMED IN ACCORDANCE WITH WATER DEPARTMENT SPECIFICATIONS, CONTRACTOR TO NOTIFY THE ASSIGNED CITY INSPECTOR A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE OF PERFORMING TESTS. CONTRACTOR SHALL PRESSURE TEST WATER MAINS AT A MINIMUM OF 150 PSI FOR A PERIOD OF 2 HOURS IN ACCORDANCE WITH AWWA C600-87 STANDARDS. THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS AND ARRANGEMENTS.
- 2. ALL SAMPLE, PRESSURE TEST, AND CHLORINATION POINT PIPING SHALL BE COMPLETELY REMOVED PRIOR TO FINAL ACCEPTANCE. THE CORPORATION STOP SHALL BE CLOSED AND PLUGGED AT THE MAIN.
- CONTRACTOR SHALL PERFORM CHLORINATION AND HIRE INDEPENDENT FIRMS TO CONDUCT BACTERIOLOGICAL TESTING AS DEFINED IN F.A.C. 62-555.340. CONTRACTOR TO SUPPLY THE CITY WITH AS-BUILTS AND SAMPLE RESULTS NECESSARY TO OBTAIN DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) CLEARANCES.

RESTORATION

- ROADWAY RESTORATION SHALL BE IN CONFORMANCE WITH CORRESPONDING JURISDICTION'S LATEST STANDARDS
- 2. DISTURBANCE TO ANY PROPERTY. PUBLIC OR PRIVATE. SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

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DOUBLE DETECTOR CHECK VALVE - ABOVE GROUND VAULT CASING PIPE (JACK & BORE) WATER METER RECLAMED WATER METER RECLAMED WATER METER METER TO BE TRANSFERRED BACK FLOW PREVENTER WET TAP SLEEVE, BEND, TEE, CROSS, PLUG, REDUCER, BLOW-OFF SAMPLE TAP LOCATION CHLORINE INJECTION POINT CHLORINE INJECTION POINT ELECTRIC MANHOLE OR UTILITY BOX, POLE MANHOLE - SANITARY, STORM VALVE SANITARY LATERAL WITH DEPTH AT RW LINE STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MALBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH		DETECTOR CHECK VALVE	——w——w——
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RECLAIMED WATER METER METER TO BE TRANSFERRED BACK FLOW PREVENTER WET TAP WET TAP WET TAP SLEEVE, BEND, TEE, CROSS, PLUG, REDUCER, BLOW-OFF SAMPLE TAP LOCATION CHLORINE INJECTION POINT ELECTRIC MANHOLE OR PULL BOX, POLE TELEPHONE MANHOLE OR UTILITY BOX, POLE MANHOLE - SANITARY, STORM VALVE SANITARY LATERAL WITH DEPTH AT RW LINE STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH	SINGLE U DUAL	WATER METER	l Y
BACK FLOW PREVENTER WET TAP WET TAP SLEEVE, BEND, TEE, CROSS, PLUG, REDUCER, BLOW-OFF SAMPLE TAP LOCATION CHLORINE INJECTION POINT ELECTRIC MANHOLE OR PULL BOX, POLE TELEPHONE MANHOLE OR UTILITY BOX, POLE MANHOLE - SANITARY, STORM VALVE SANITARY LATERAL WITH DEPTH AT RW LINE STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION MAILBOX GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH		RECLAIMED WATER METER	SINGLE SEM DUAL
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WE I TAP H IN IT IT IN IT IT IN IT IT IN IT IT IN IT	BF.	BACK FLOW PREVENTER	-
SAMPLE TAP LOCATION CHLORINE INJECTION POINT C ELECTRIC MANHOLE OR PULL BOX, POLE TELEPHONE MANHOLE OR UTILITY BOX, POLE MANHOLE - SANITARY, STORM VALVE SANITARY LATERAL WITH DEPTH AT RW LINE STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH	—— <i>w</i> —— ♥ - <i>w</i> ——	— WET TAP	<u>×</u>
CHLORING INJECTION POINT ELECTRIC MANHOLE OR PULL BOX, POLE TELEPHONE MANHOLE OR UTILITY BOX, POLE MANHOLE - SANITARY, STORM VALVE SANITARY LATERAL WITH DEPTH AT RW LINE STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS:HEAVY BRUSH	н⊳́ ∰ ФФф	SLEEVE, BEND, TEE, CROSS, PLUG, REDUCER, BLOW-OFF	́иъ́ ⊕ Ф ◀ ♣
ELECTRIC MANHOLE OR PULL BOX, POLE TELEPHONE MANHOLE OR UTILITY BOX, POLE MANHOLE - SANITARY, STORM VALVE SANITARY LATERAL WITH DEPTH AT RW LINE STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH		SAMPLE TAP LOCATION	S
TELEPHONE MANHOLE OR UTILITY BOX, POLE MANHOLE - SANITARY, STORM VALVE SANITARY LATERAL WITH DEPTH AT RW LINE STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX J PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH		CHLORINE INJECTION POINT	С
MANHOLE - SANITARY, STORM VALVE SANITARY LATERAL WITH DEPTH AT RW LINE STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION MAILBOX SIGN SHRUB, HEDGE WOODS:HEAVY BRUSH	€ 👏	ELECTRIC MANHOLE OR PULL BOX, POLE	€ ◆
SANITARY LATERAL WITH DEPTH AT RW LINE STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH	T Ø	TELEPHONE MANHOLE OR UTILITY BOX, POLE	□ ♦
SANITARY LATERAL WITH DEPTH AT RW LINE STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH	S S	MANHOLE - SANITARY, STORM	⊚ ⑤
STORM GRATE, CURB INLET STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH	⊗ ⋈	VALVE	⊗ ₩
STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH	'	SANITARY LATERAL WITH DEPTH AT R/W LINE	
GUY POLE, GUY POLE AND WIRE COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH		STORM GRATE, CURB INLET	
COMBINATION POLE, LIGHT POLE MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH		STORM PIPE CULVERT WITH HEADWALL, MITERED END SECTION	
MAILBOX SIGN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH	\longleftrightarrow	GUY POLE, GUY POLE AND WIRE	$\longleftrightarrow \longleftrightarrow \longleftrightarrow$
SIGN IN PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH	øχ	COMBINATION POLE, LIGHT POLE	◆ 🕱
PINE, TREE, PALM, OAK ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH		MAILBOX	
ROOT PRUNE SHRUB, HEDGE WOODS/HEAVY BRUSH	-1. WK7. C	SIGN	4
○ ○○○○○○○ SHRUB, HEDGE WOODS/HEAVY BRUSH	大:************************************	PINE, TREE, PALM, OAK	
WOODS/HEAVY BRUSH	10'	ROOT PRUNE	
WOODS/HEAVY BRUSH	0 00000	SHRUB, HEDGE	
		WOODS/HEAVY BRUSH	
× 4.3 SPOT ELEVATIONS 4.30	× ^{4,3}	SPOT ELEVATIONS	4.30

LEGEND

ANDRÉ J. BIEN-AIMÉ, P.E. CITY OF TAMPA WATER DEPT. 711 E. HENDERSON AVE. TAMPA, FLA. 33602 P.E. #84160

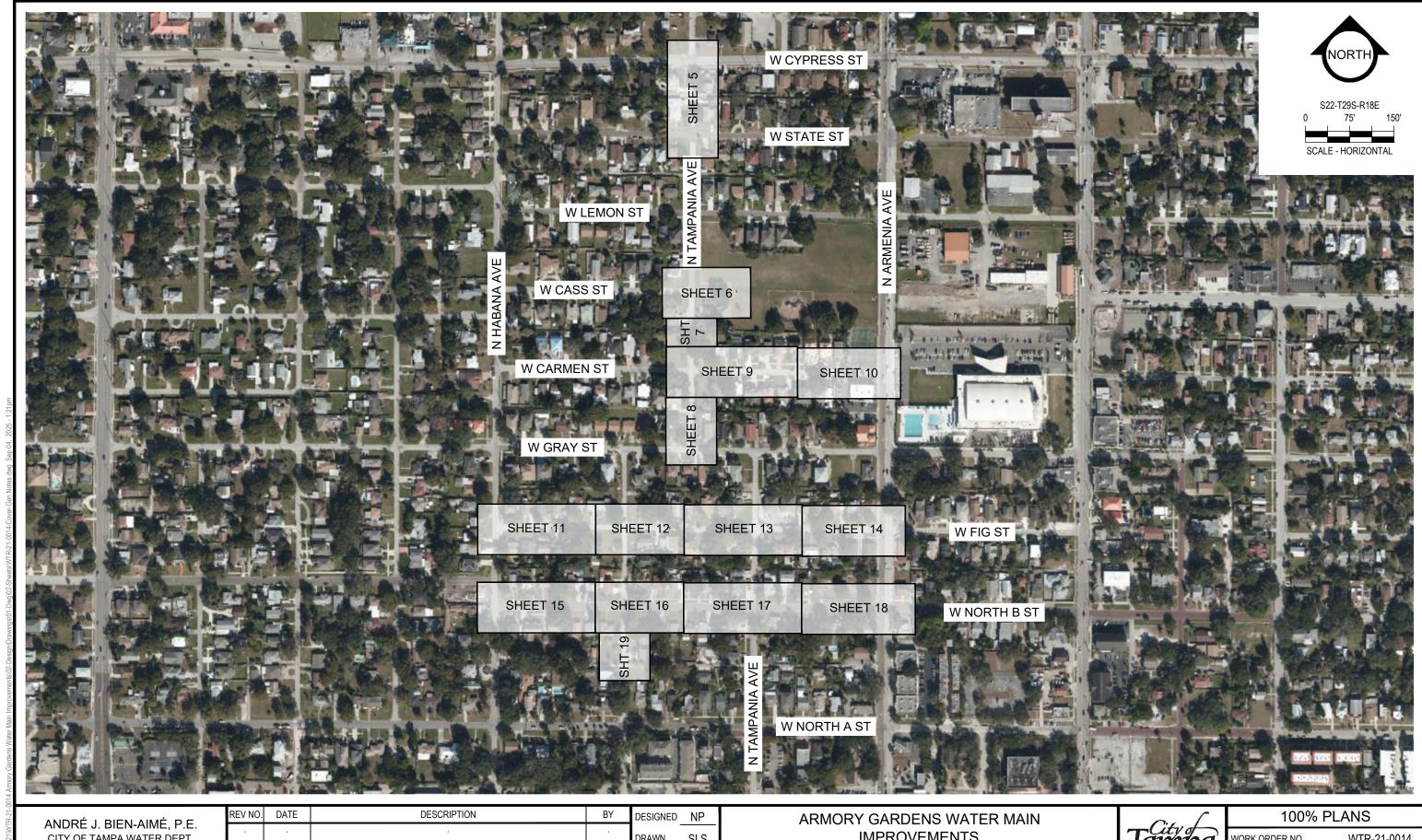
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ARMORY GARDENS WATER MAIN **IMPROVEMENTS**

GENERAL NOTES-LEGEND

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CITY OF TAMPA WATER DEPT. 711 E. HENDERSON AVE. TAMPA, FLA. 33602 P.E. #84160

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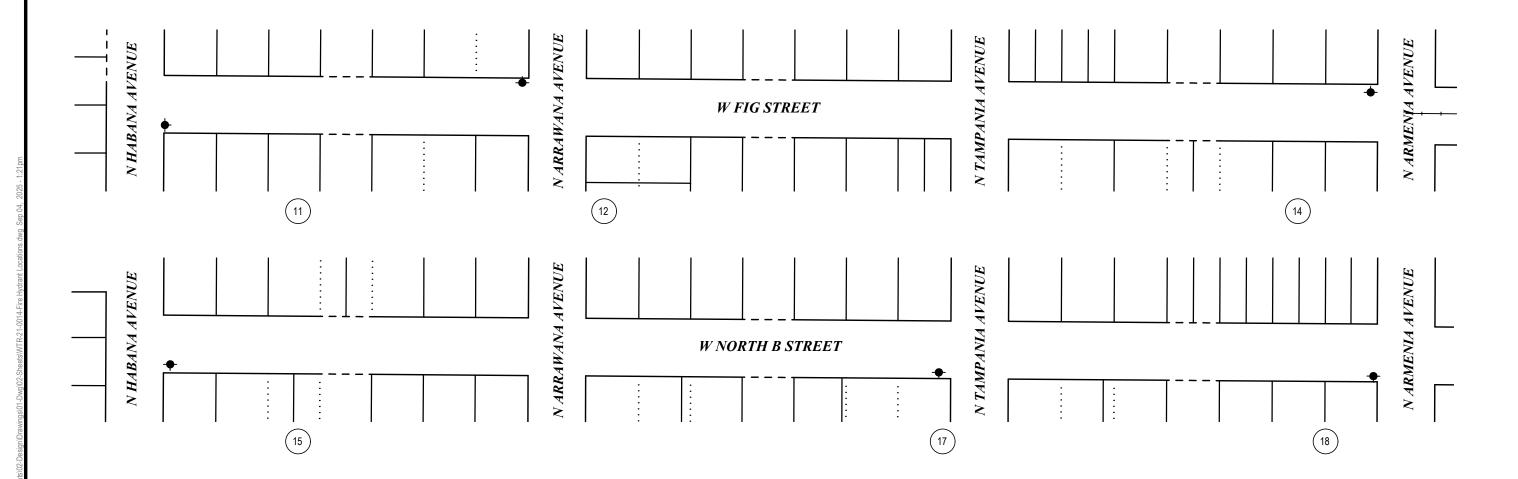
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PROPOSED HYDRANT LOCATIONS

12 SHEET NUMBER

ANDRÉ J. BIEN-AIMÉ, P.E.
CITY OF TAMPA WATER DEPT.
711 E. HENDERSON AVE.
TAMPA, FLA. 33602
P.E. #84160

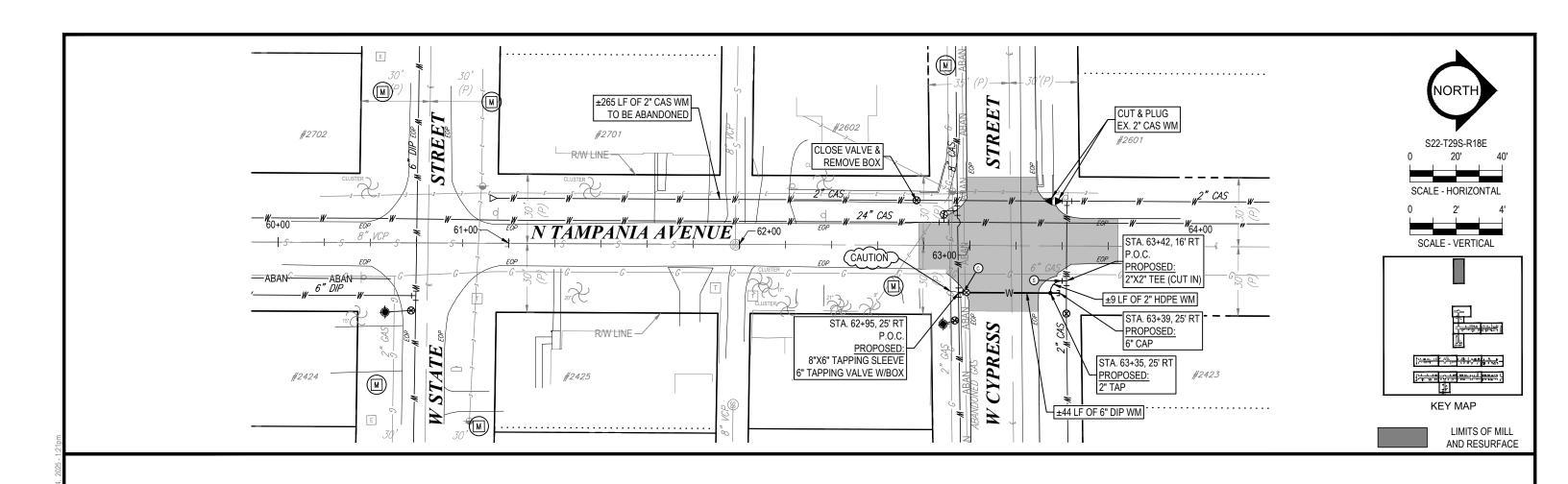
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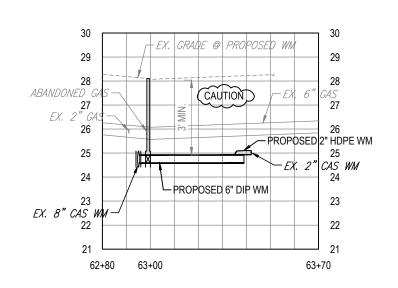
ARMORY GARDENS WATER MAIN IMPROVEMENTS

PROPOSED HYDRANT LOCATION SHEET

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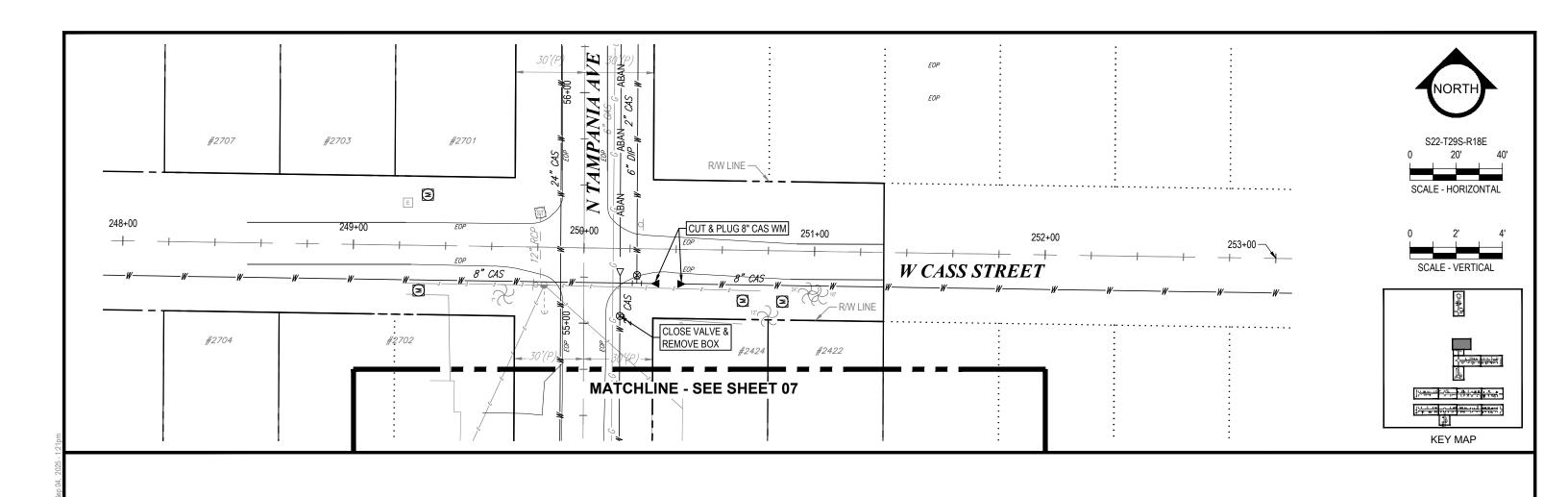
ANDRÉ J. BIEN-AIMÉ, P.E.
CITY OF TAMPA WATER DEPT.
711 E. HENDERSON AVE.
TAMPA, FLA. 33602
P.E. #84160

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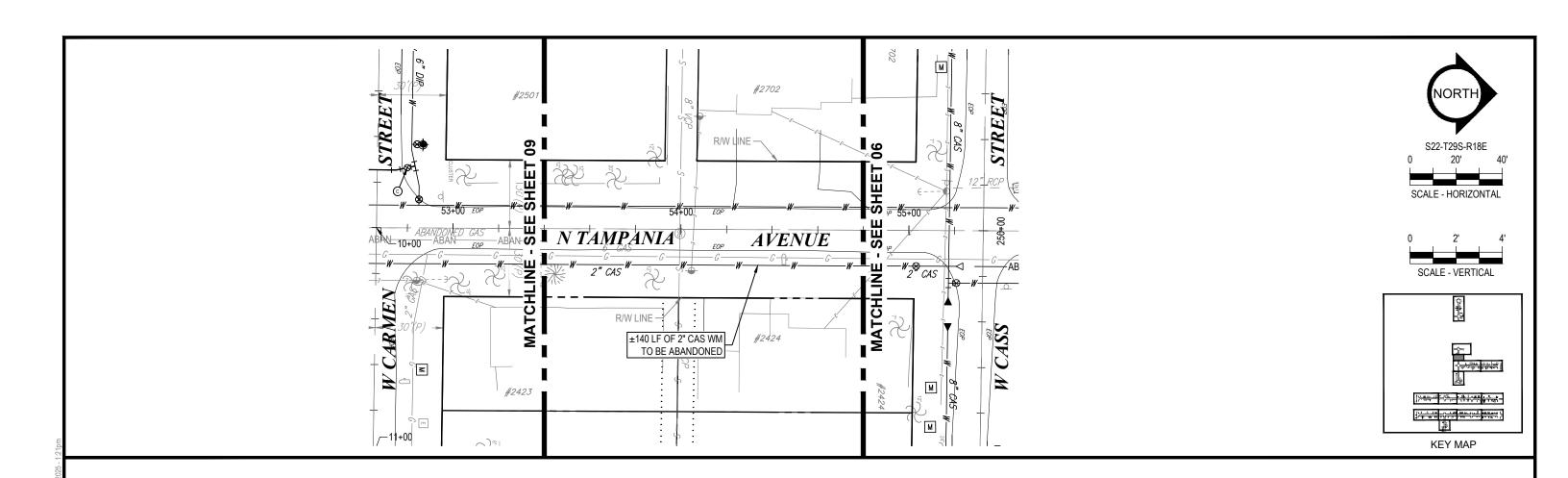
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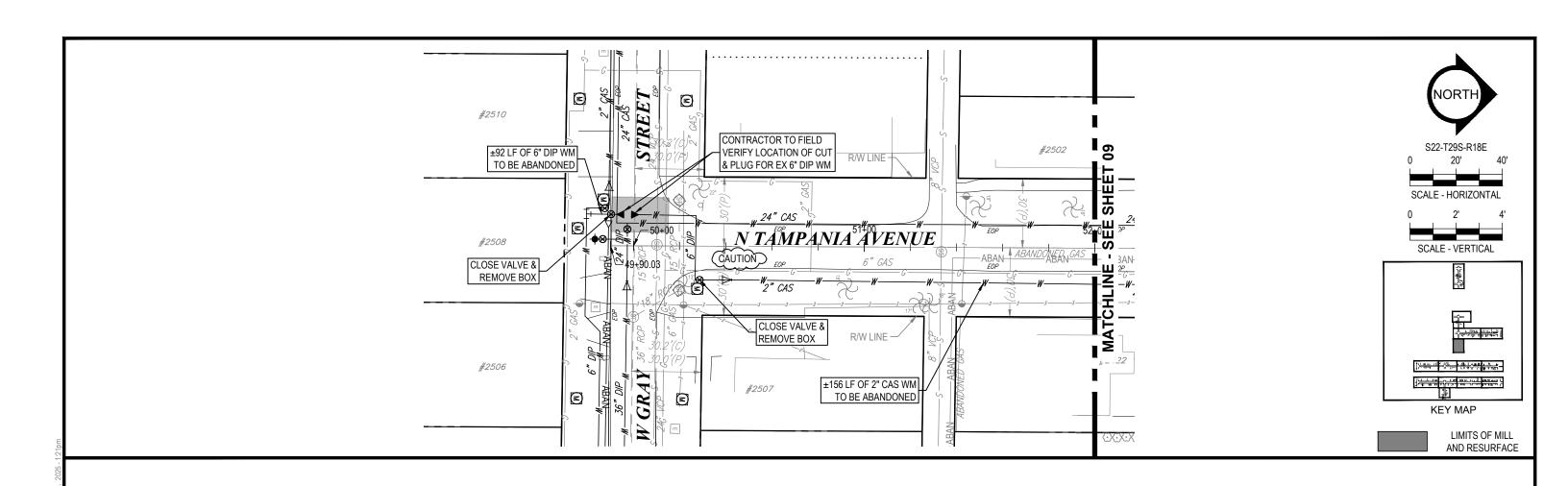


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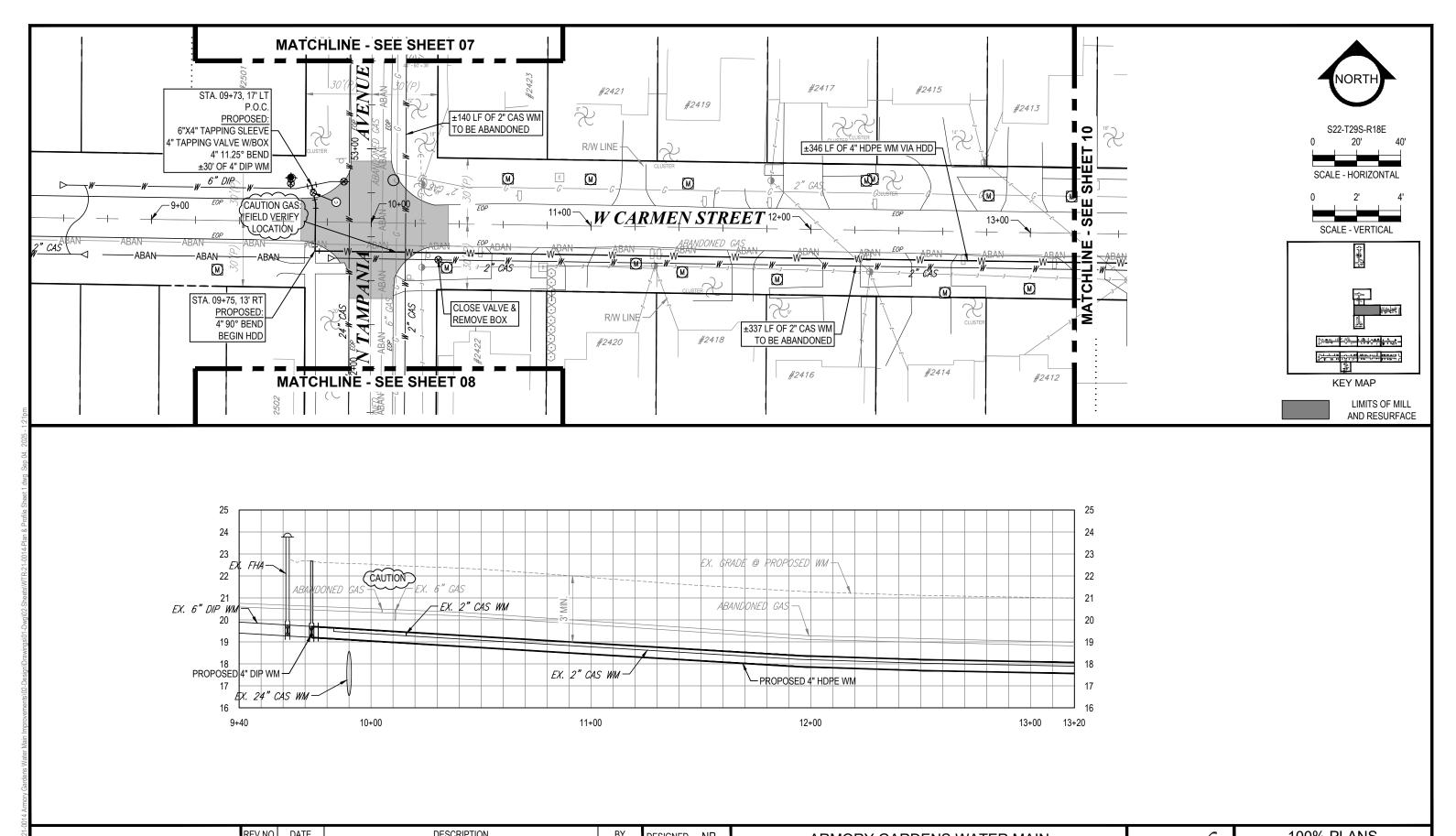


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ARMORY GARDENS WATER MAIN IMPROVEMENTS

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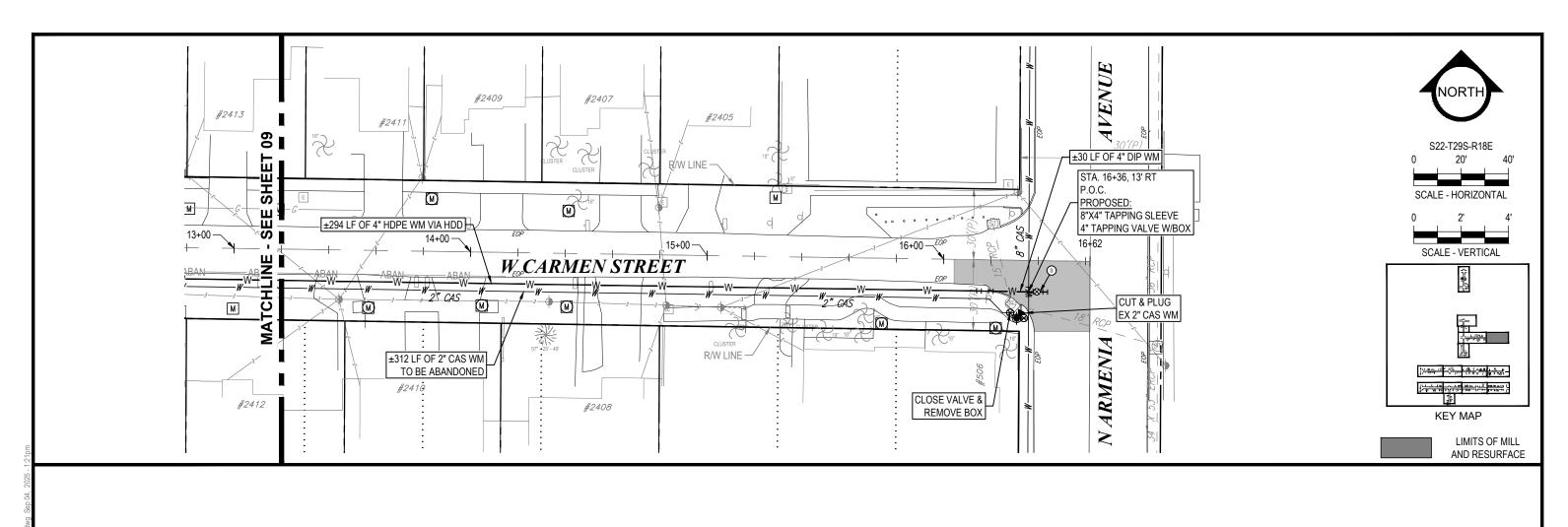


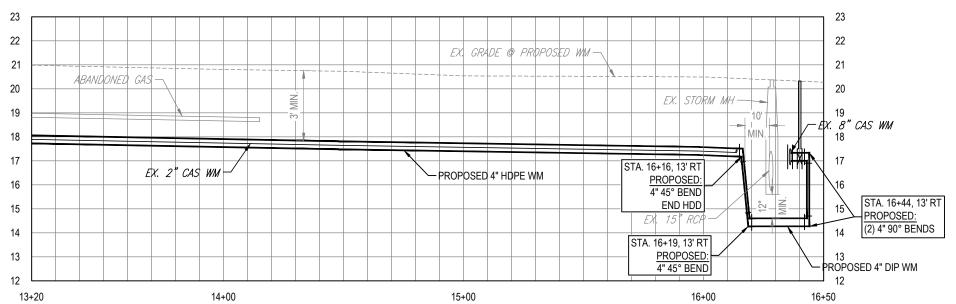
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ARMORY GARDENS WATER MAIN IMPROVEMENTS

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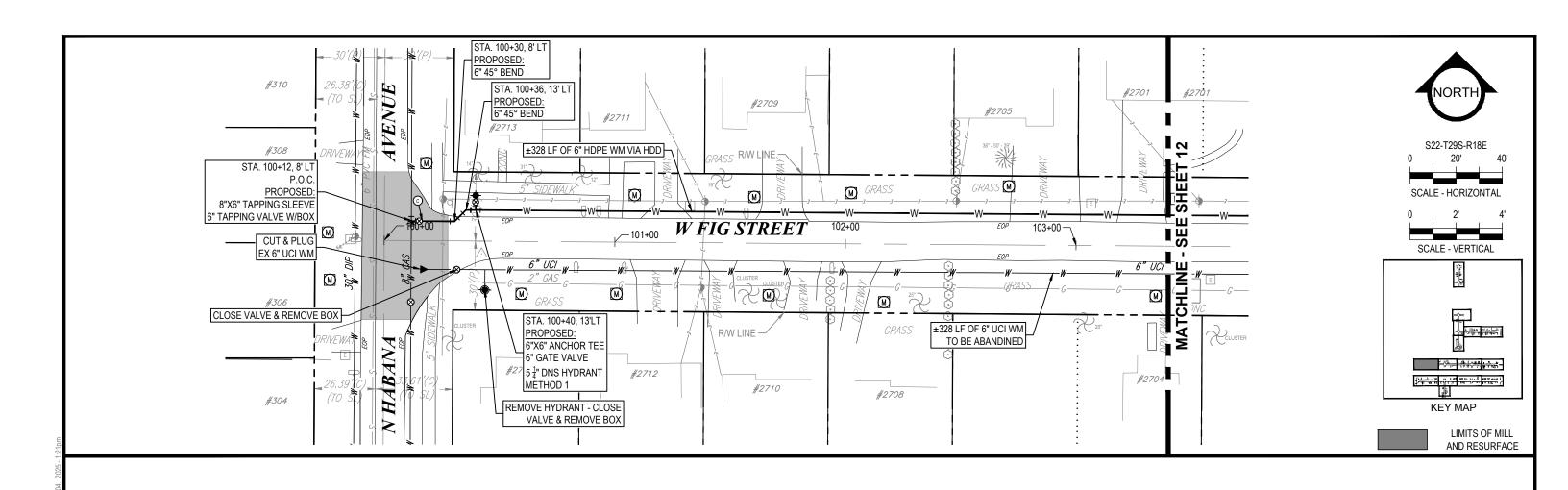


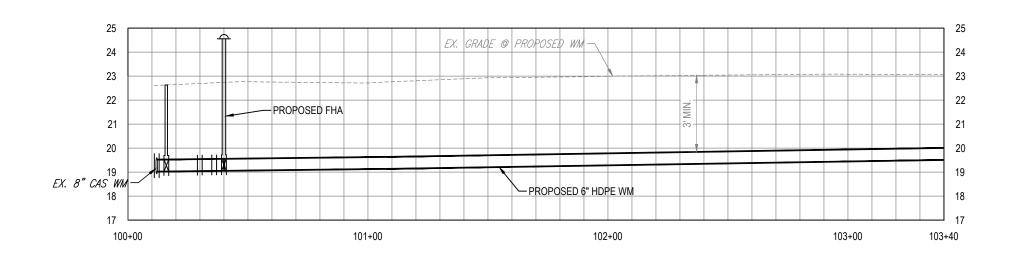
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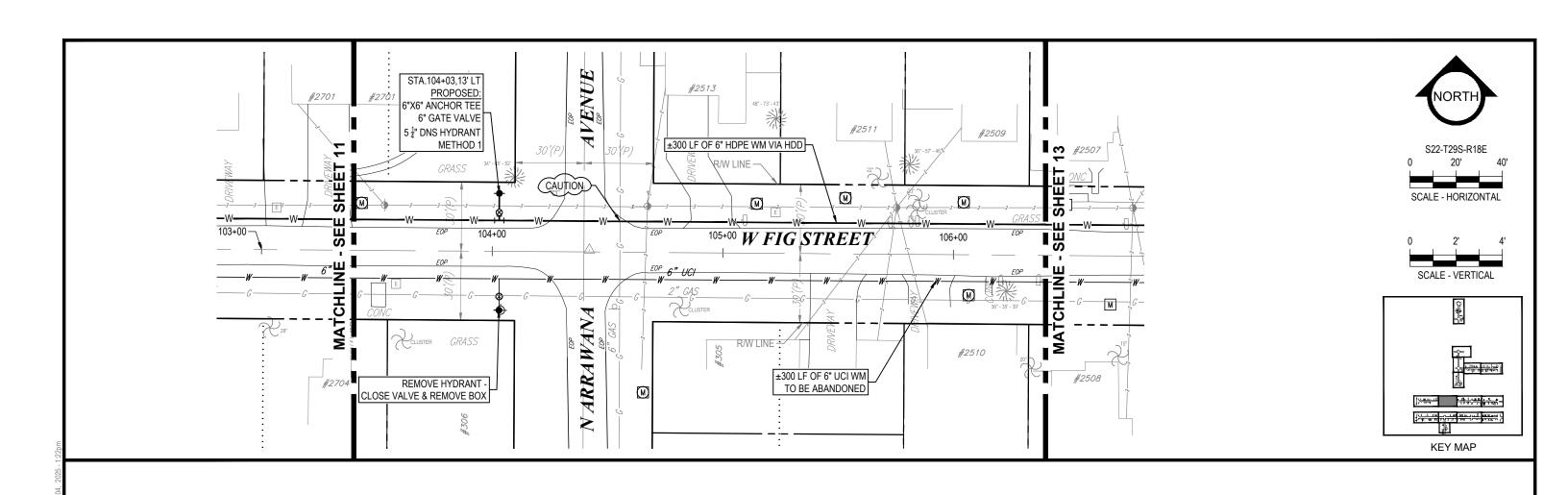


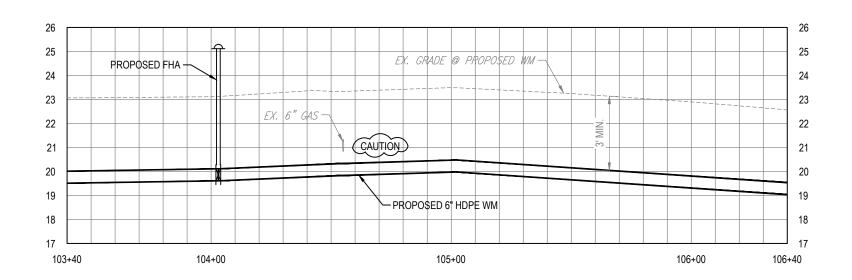


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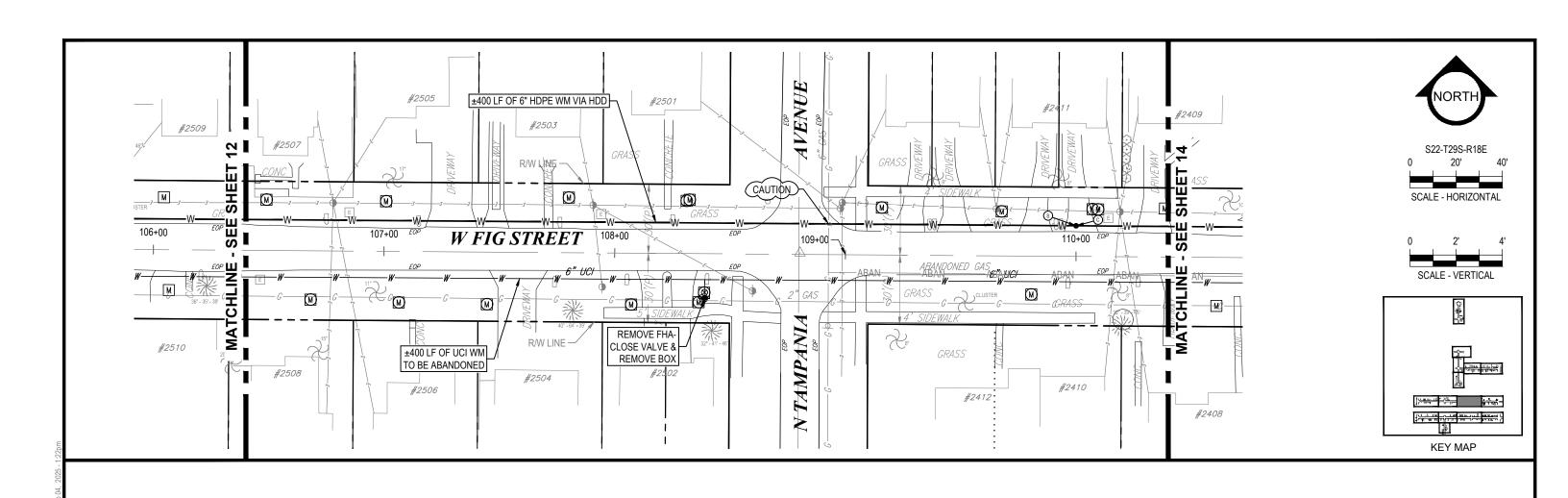


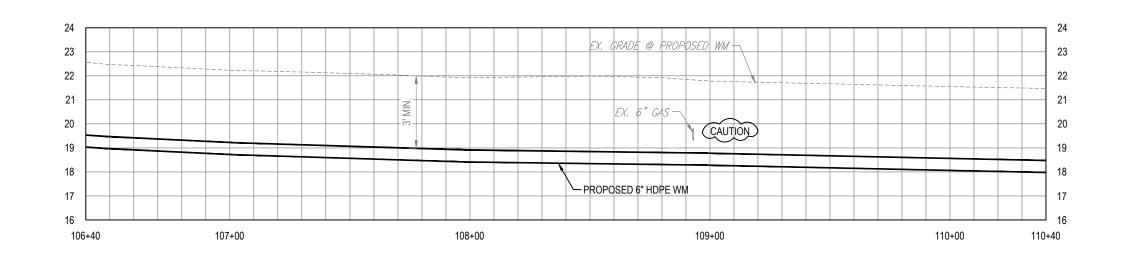
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ARMORY GARDENS WATER MAIN IMPROVEMENTS

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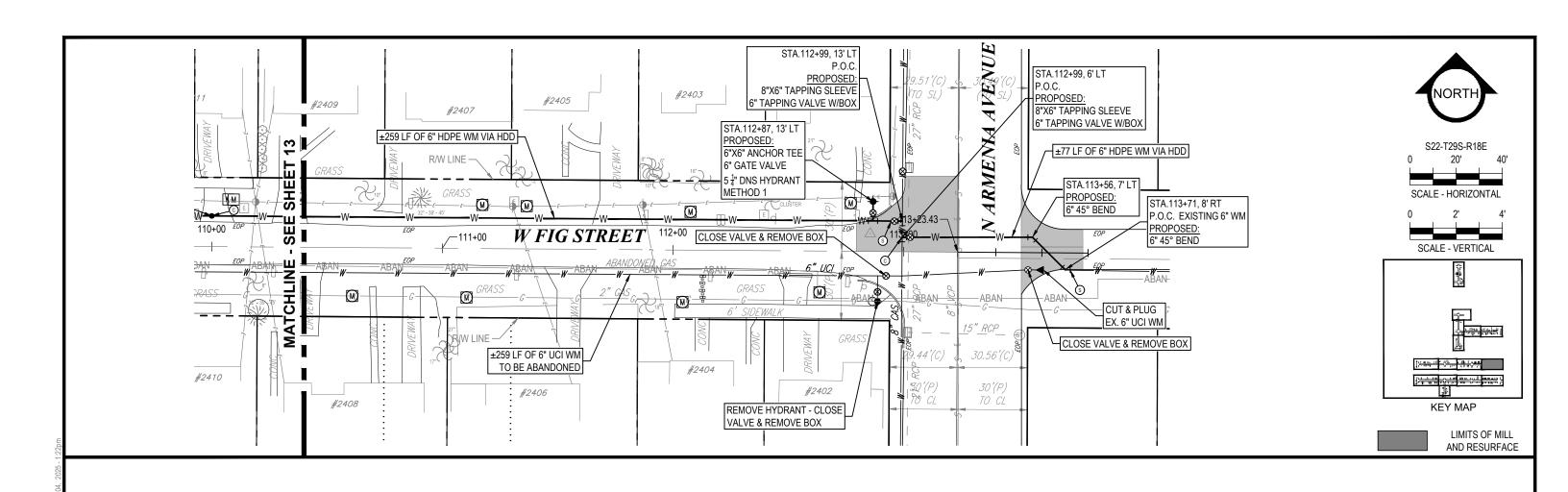


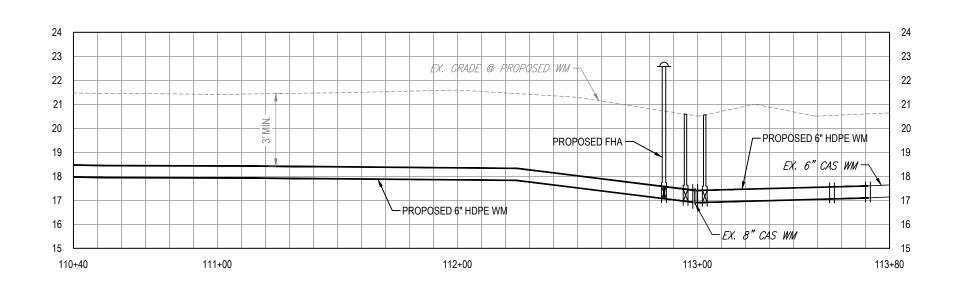
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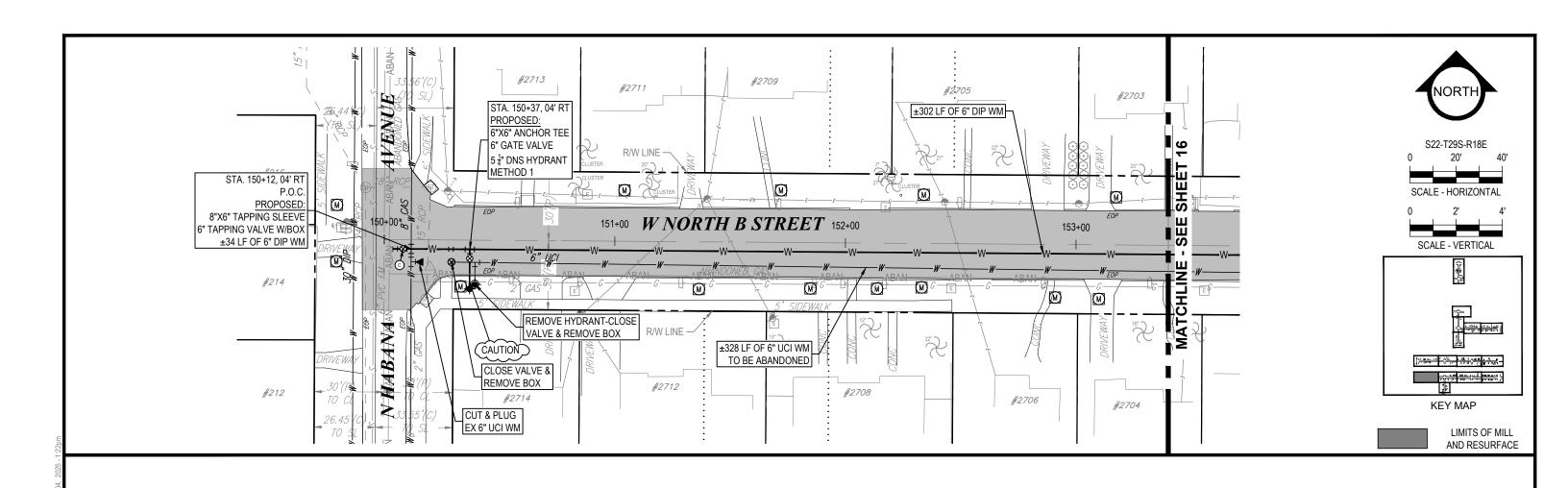


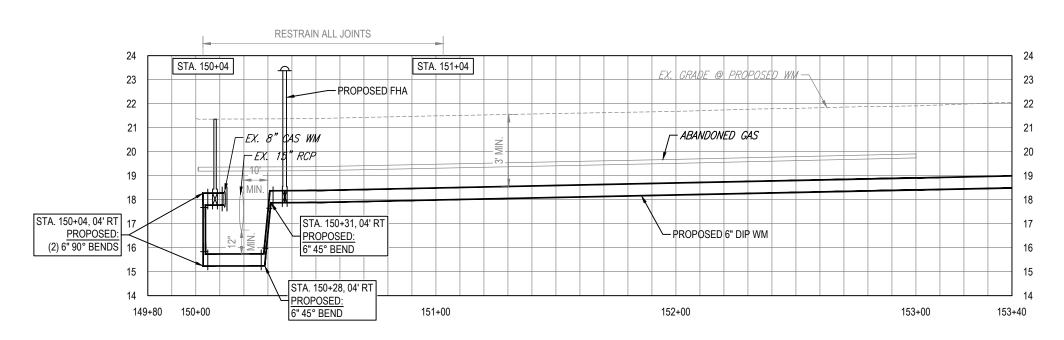
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ARMORY GARDENS WATER MAIN IMPROVEMENTS

Tarrepa
Water Department

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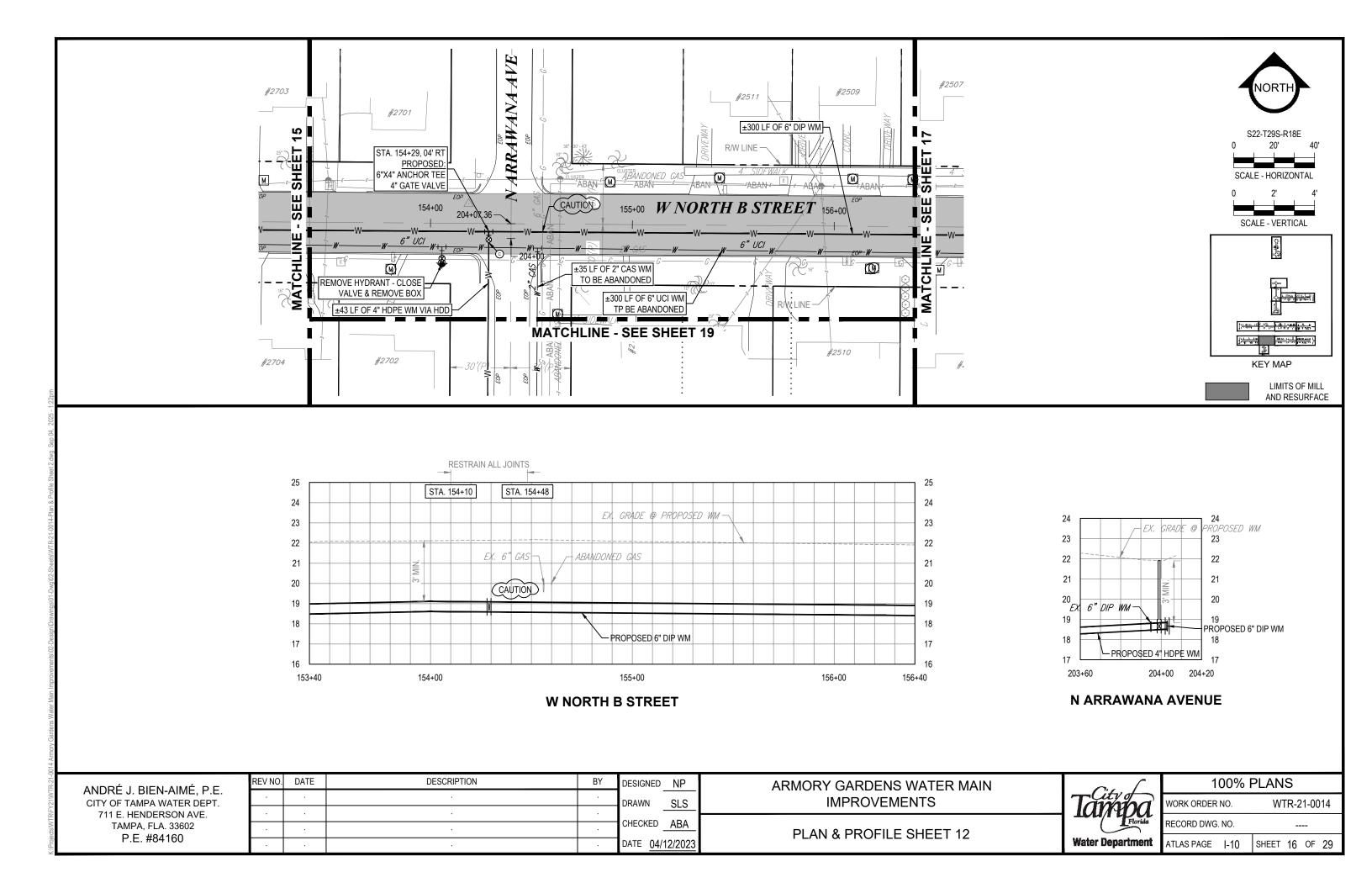


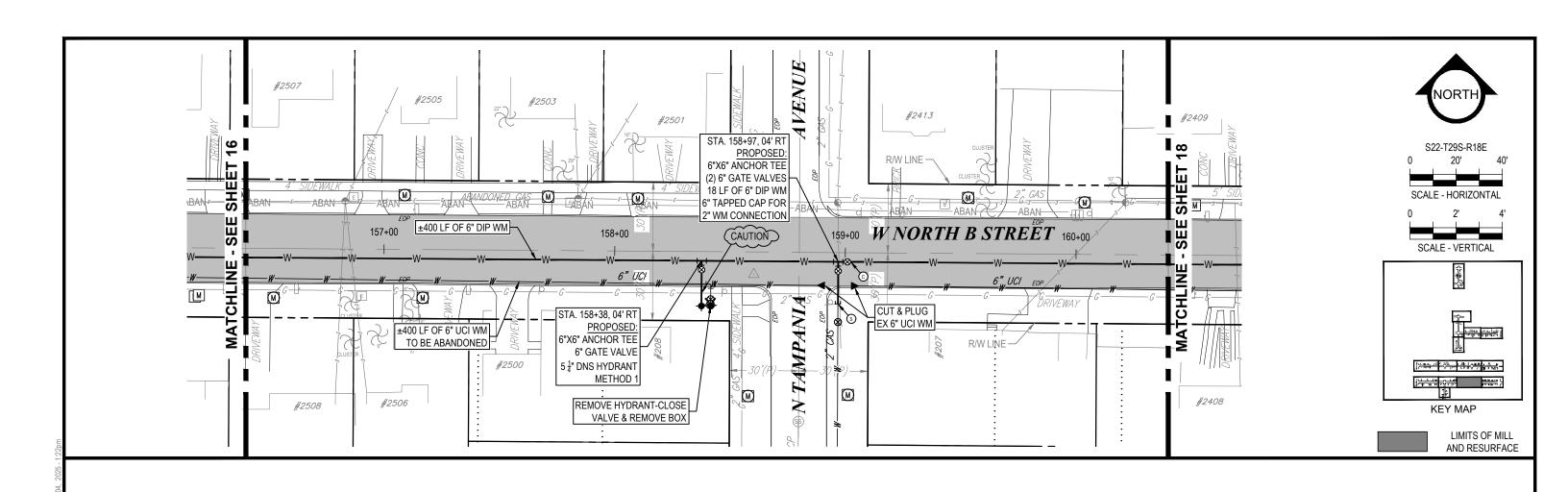
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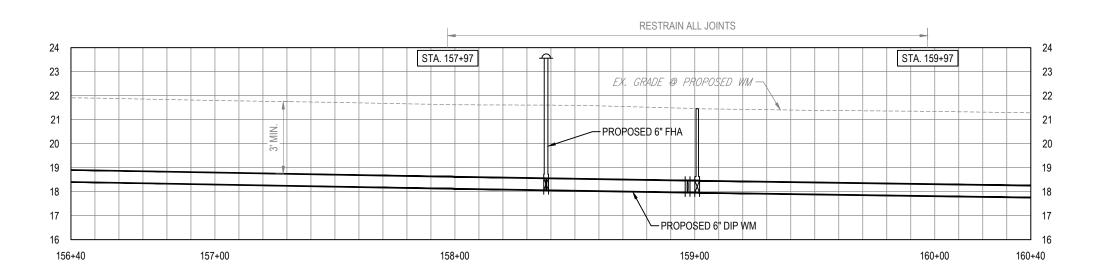
ARMORY GARDENS WATER MAIN IMPROVEMENTS

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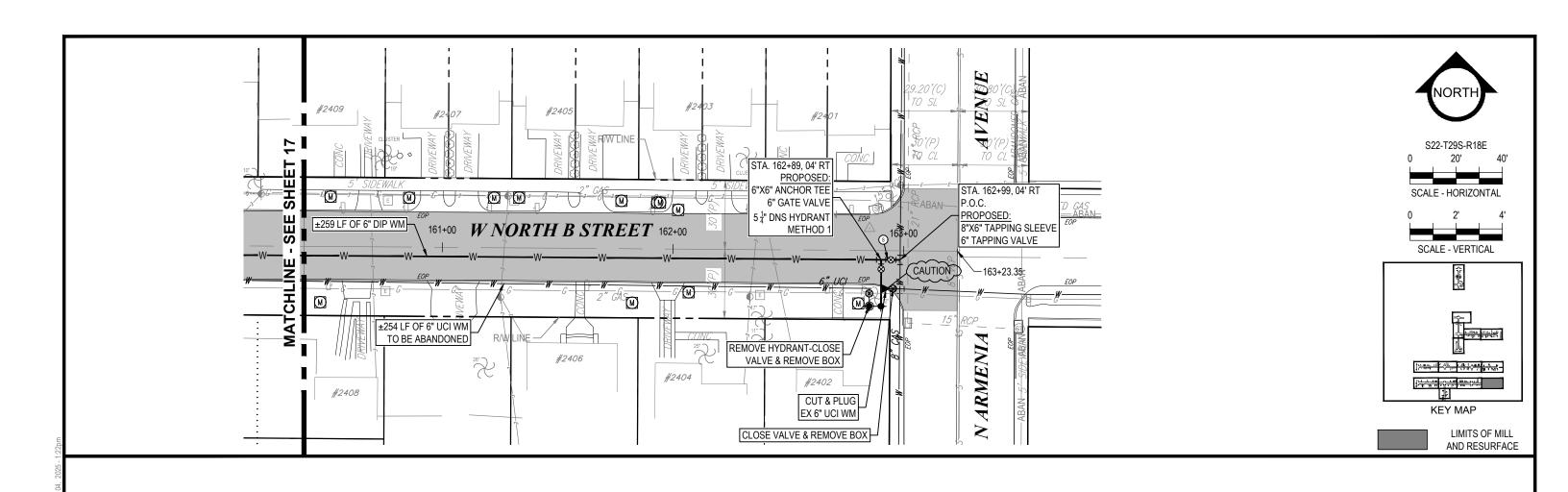


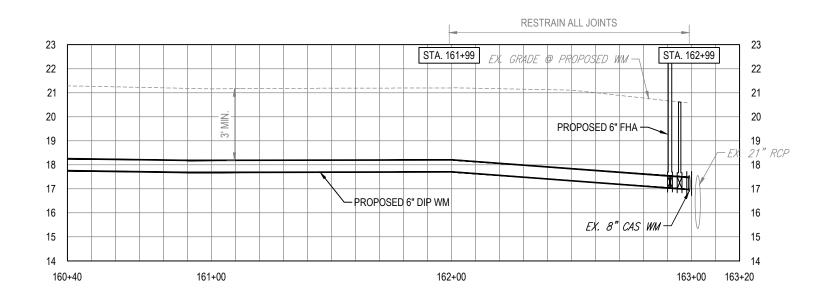
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ARMORY GARDENS WATER MAIN IMPROVEMENTS

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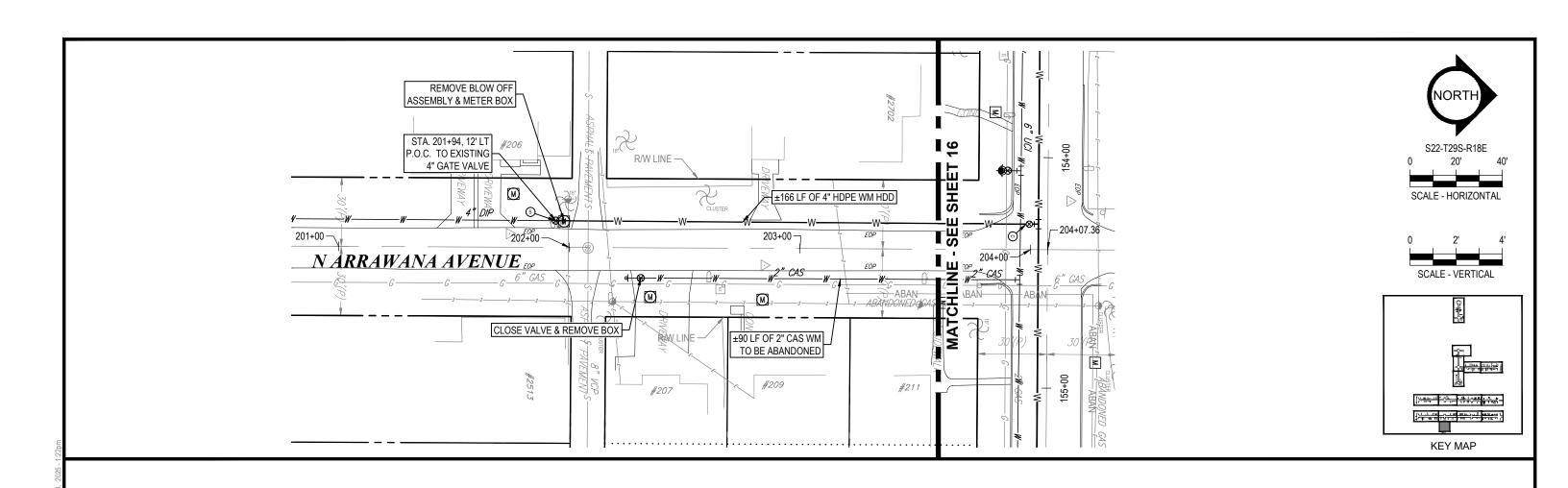


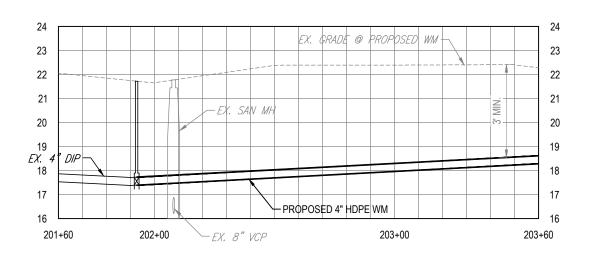
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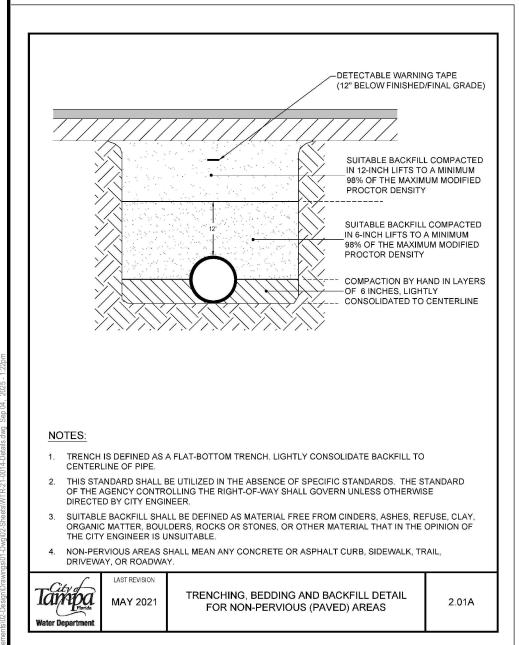


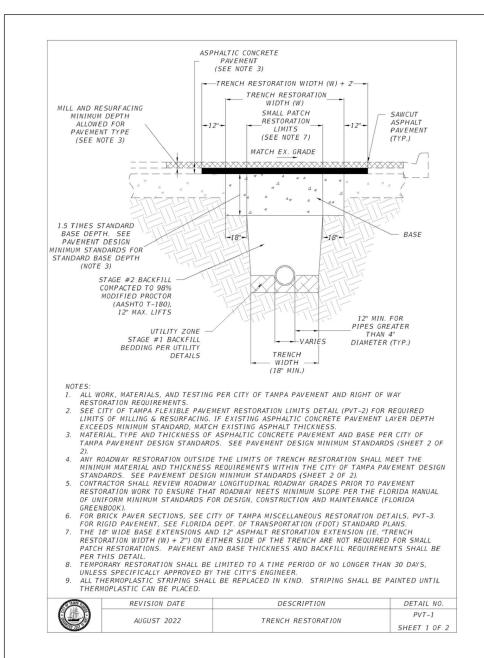


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ROADWAY			ASPHALTIC
CLASSIFICATION	BASE MATERIAL	RIGID PAVEMENT	CONCRETE
ALLEY	6"	6"	1"
LOCAL	8"	6"	2"
NEIGHBORHOOD COLLECTOR	8"	6"	3"
COLLECTOR/ ARTERIAL	12"*	8"	4"*

* MINIMUM PAVEMENT SECTIONS CAN BE MODIFIED WITH AN APPROVED PAVEMENT DESIGN SUBMITTED TO THE CITY OF TAMPA MOBILITY DEPT., TRANSPORTATION ENGINEERING

- NOTES:

 ALL WORK, MATERIALS, AND TESTING PER CITY OF TAMPA PAVEMENT AND RIGHT OF WAY RESTORATION REQUIREMENTS.

 MATERIAL, TYPE AND THICKNESS OF ASPHALTIC CONCRETE PAVEMENT AND BASE PER CITY OF TAMPA PAVEMENT DESIGN STANDARDS.
- 3. ASPHALTIC CONCRETE SHALL BE TYPES SP-9.5 (TRAFFIC LEVEL C) OR SP-12.5 (TRAFFIC LEVEL C), ONLY. ARTERIALS SHALL USE SP-12.5, ONLY.
 4. OPTIONAL BASE GROUP, INCLUDING ASPHALT BASE, PER FDOT STANDARD SPECIFICATIONS FOR
- ROAD & BRIDGE CONSTRUCTION MAY BE USED IN LIEU OF STANDARD DEPTH. USE CORRESPONDING LR BASE THICKNESSES TO DETERMINE REQUIRED DEPTH.

REVISION DATE DESCRIPTION DETAIL NO. PVT-1AUGUST 2022 PAVEMENT DESIGN SHEET 2 OF 2

ANDRÉ J. BIEN-AIMÉ, P.E. CITY OF TAMPA WATER DEPT. 711 E. HENDERSON AVE.

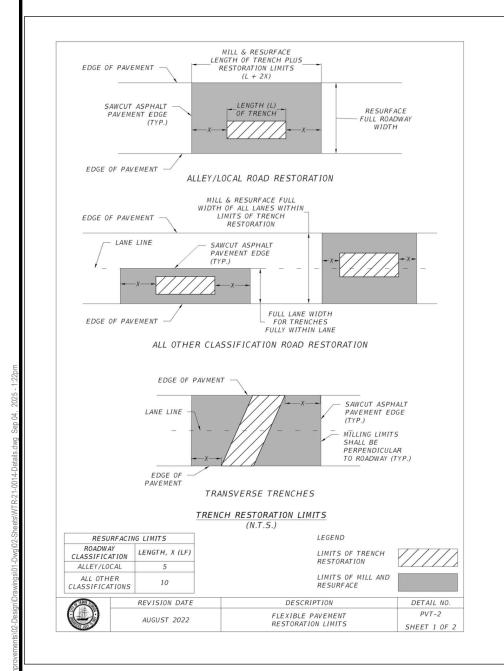
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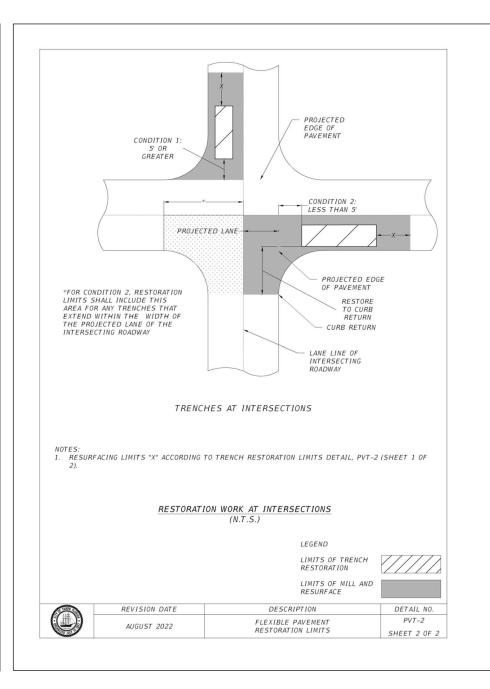
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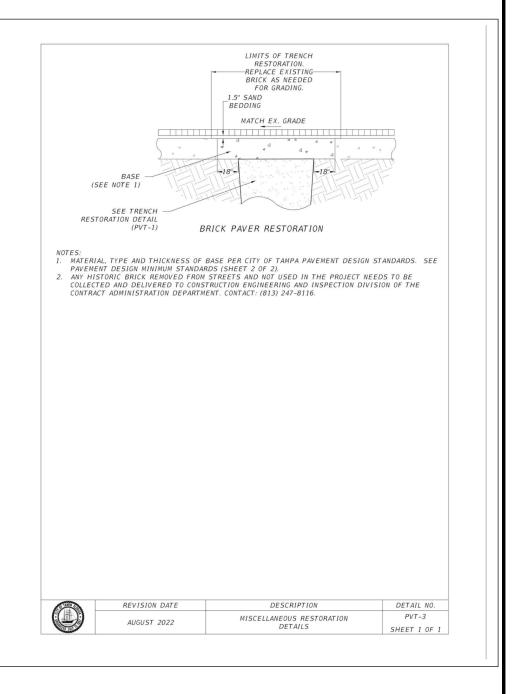
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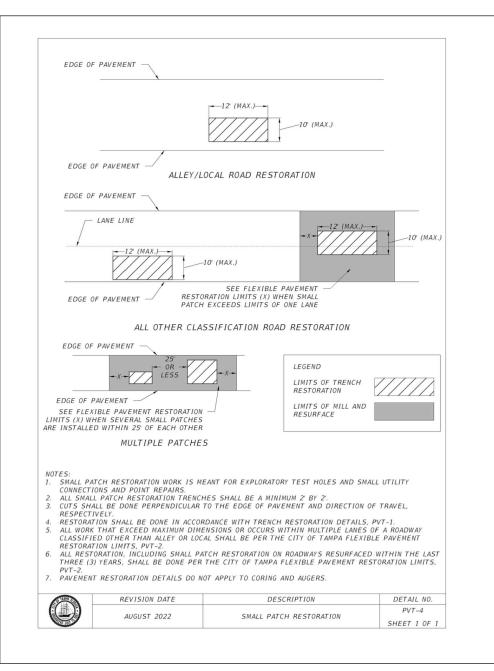


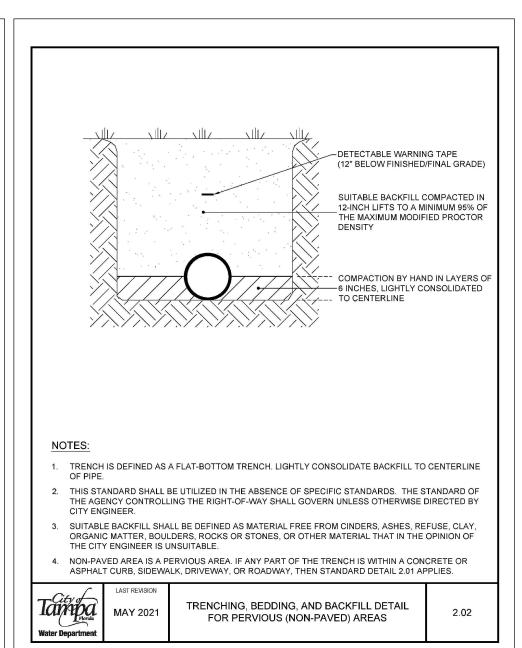


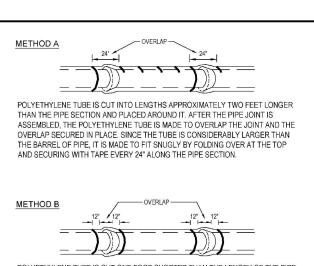
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ARMORY GARDENS WATER MAIN IMPROVEMENTS

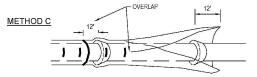
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POLYETHYLENE TUBE IS CUT ONE FOOT SHORTER THAN THE LENGTH OF THE PIPE SECTION. AFTER PLACEMENT OF THE PIPE, IT IS FOLDED AND SECURED SNUGLY OVERALL. A THREE FOOT LENGTH OF POLYETHYLENE TUBE PLACED OVER THE END OF THE PRECEEDING SECTION IS THEN PULLED IN PLACE OVER THE JOINT AFTER ASSEMBLY AND SECURED.



POLYETHYLENE SHEET IS CUT TO A LENGTH TWO FEET LONGER THAN THE PIPE SECTION. THE SHEET IS WRAPPED AROUND THE PIPE SO THAT IT OVERLAPS CIRCUMFERENTIALLY OVER THE TOP QUADRANT OF THE PIPE, THEN SECURED. AFTER JOINT ASSEMBLY, THE SURPLUS LENGTH OF POLYETHYLENE FILM IS SECURED AROUND THE JOINT, PROVIDING AN OVERLAP OF EACH JOINT. TAPE AT EACH JOINT AND AT 3' INTERVALS IN BETWEEN.

- 1. USE BLUE POLYETHYLENE FILM AND TAPE ONLY.
- 2. POLYETHYLENE FILM SHALL BE A MINIMUM OF 8 MIL. THICKNESS.
- 3. SPIRAL WRAP NOT REQUIRED WITH POLYWRAP.

LAST REVISION MAY 2021

POLYETHYLENE ENCASEMENT INSTALLATION DETAIL

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ANDRÉ J. BIEN-AIMÉ, P.E. CITY OF TAMPA WATER DEPT. 711 E. HENDERSON AVE. TAMPA, FLA. 33602 P.E. #84160

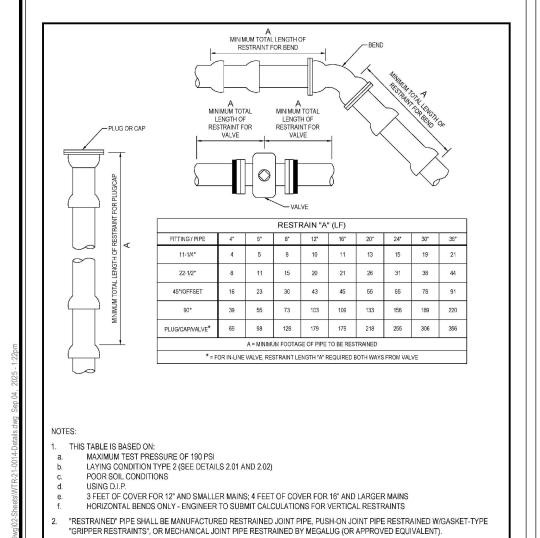
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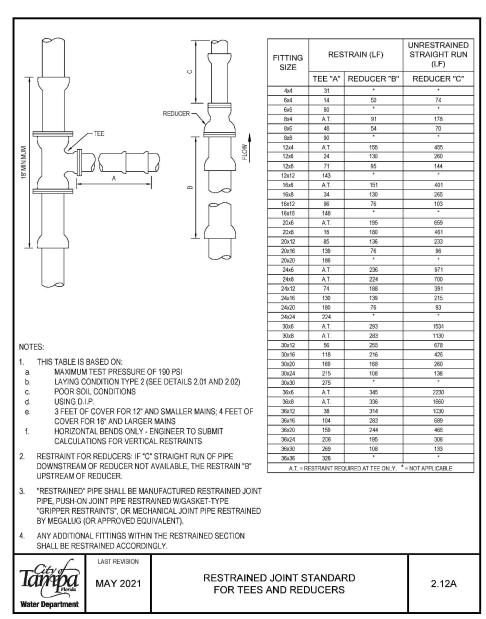
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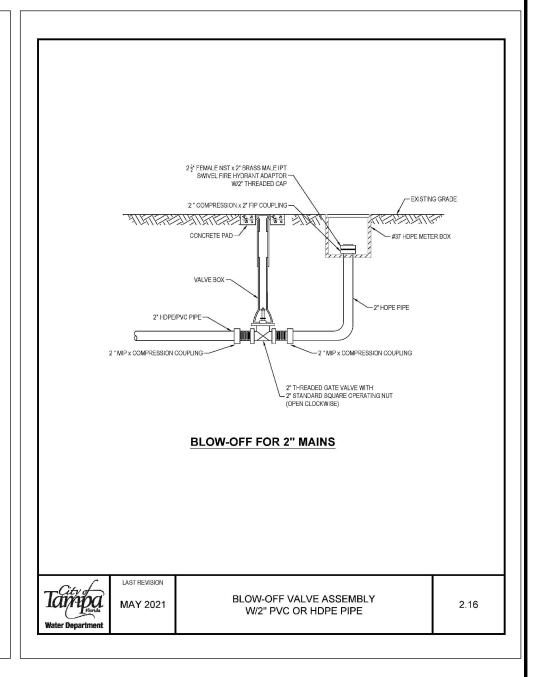


3. ANY ADDITIONAL FITTINGS WITHIN THE RESTRAINED SECTION SHALL BE RESTRAINED ACCORDINGLY.

RESTRAINED JOINT STANDARD FOR

BENDS, PLUGS, CAPS, AND VALVES





ANDRÉ J. BIEN-AIMÉ, P.E.
CITY OF TAMPA WATER DEPT.
711 E. HENDERSON AVE.
TAMPA, FLA. 33602

P.E. #84160

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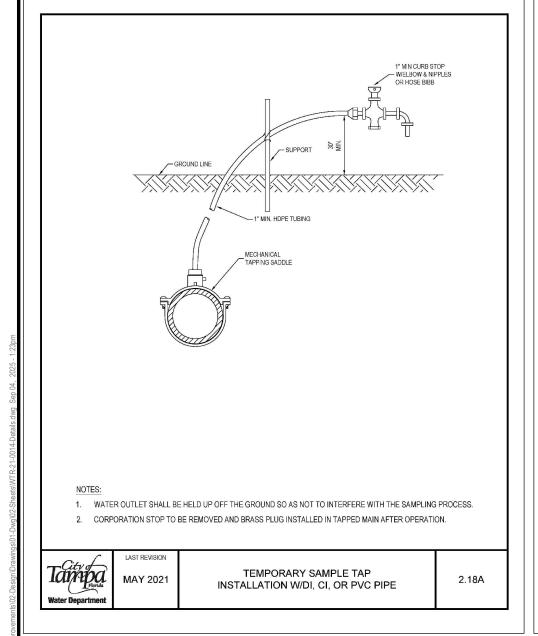
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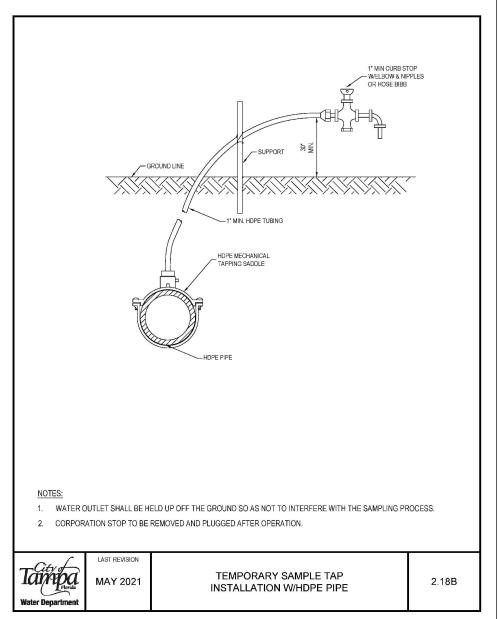
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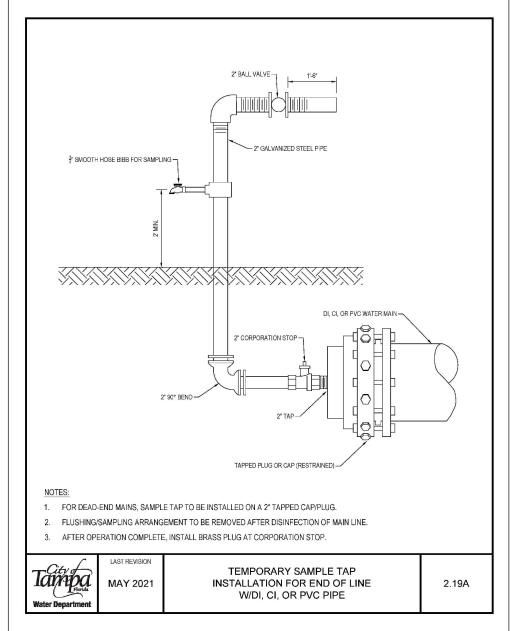
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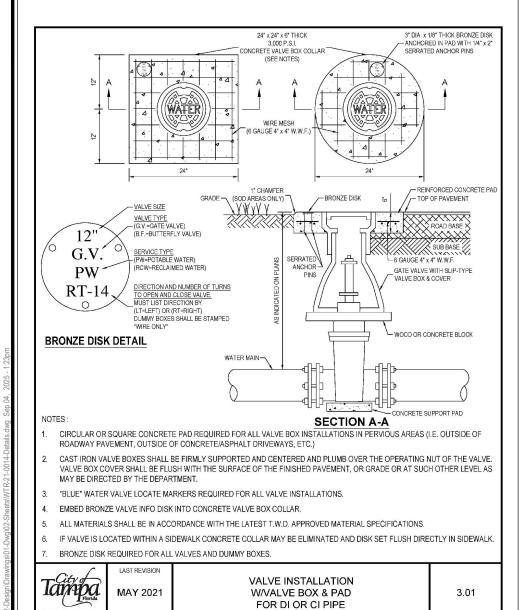


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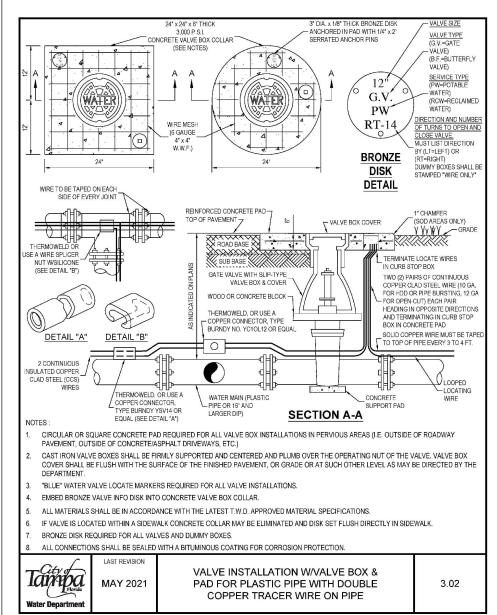
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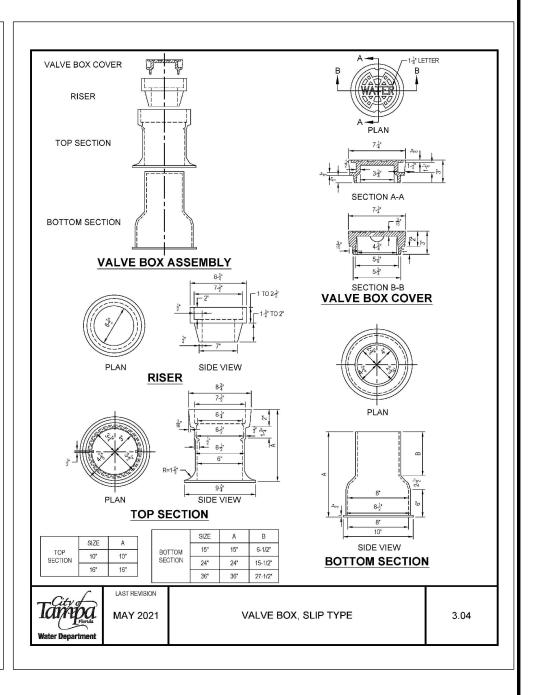
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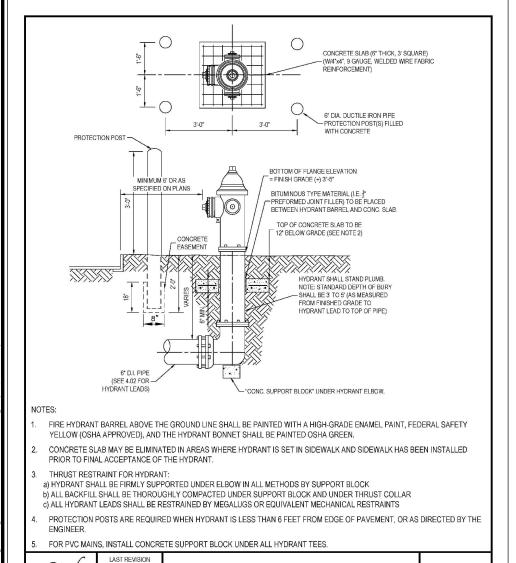
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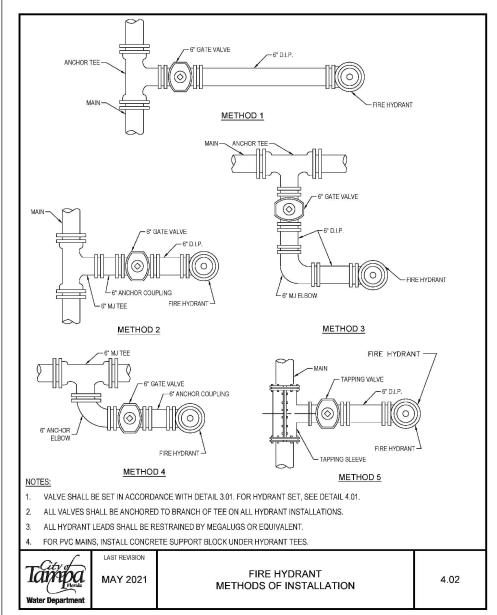
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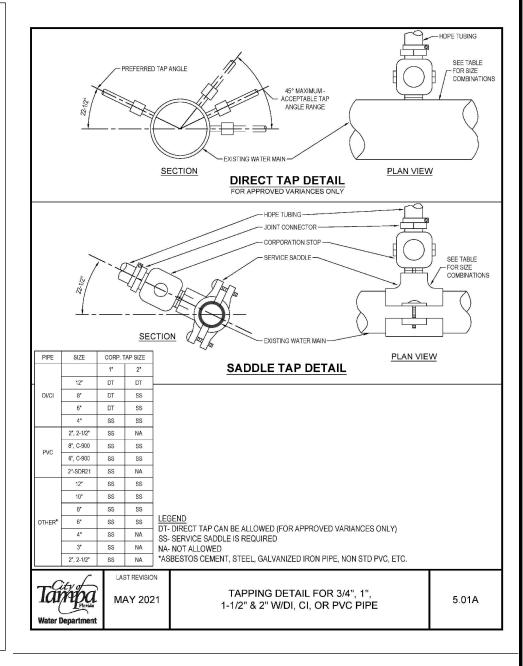
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FIRE HYDRANT INSTALLATION





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MAY 2021

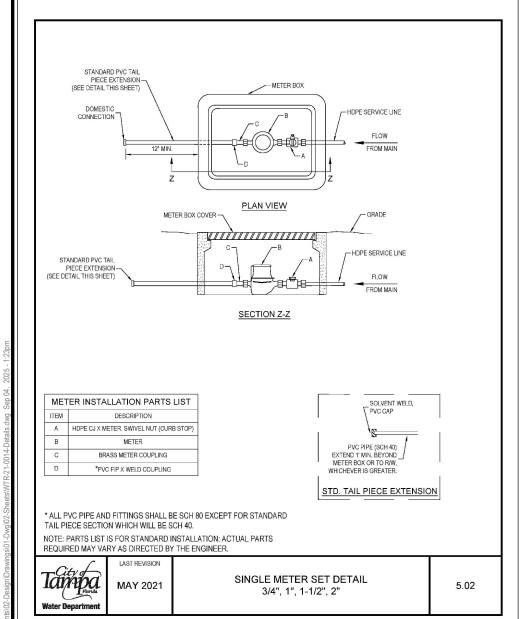
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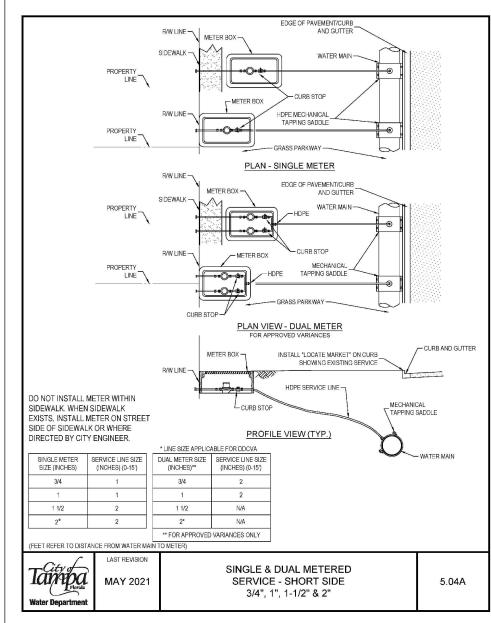
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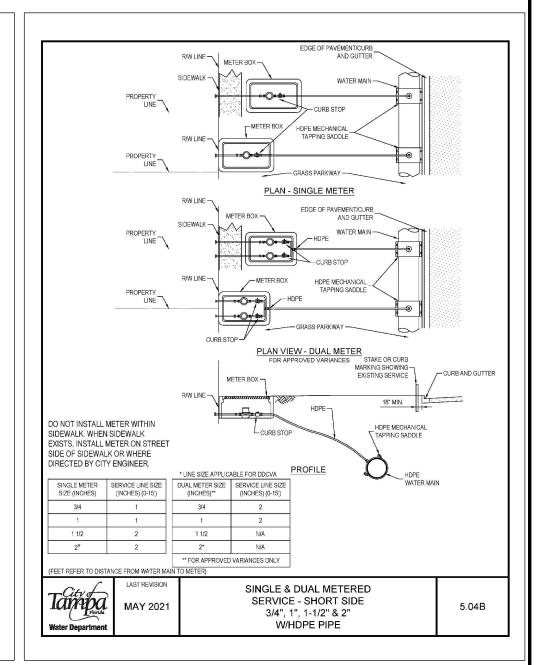
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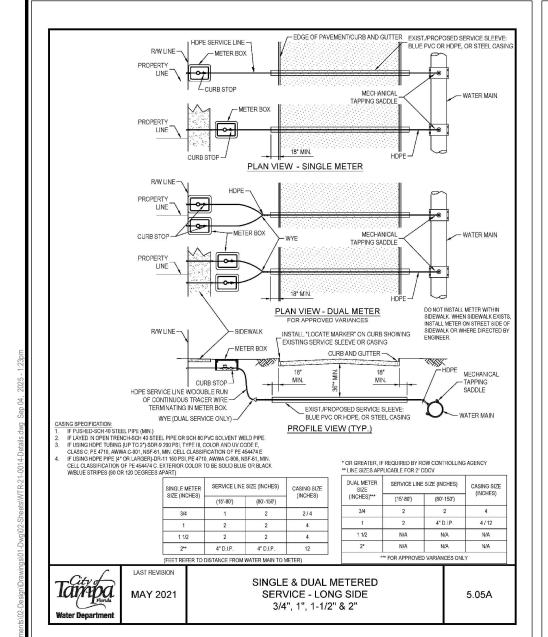


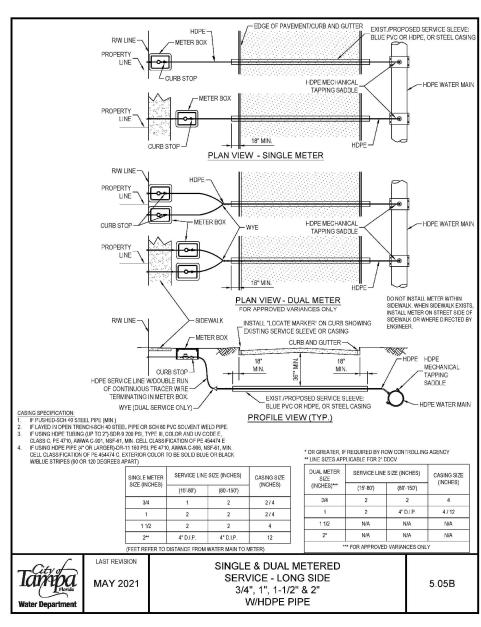
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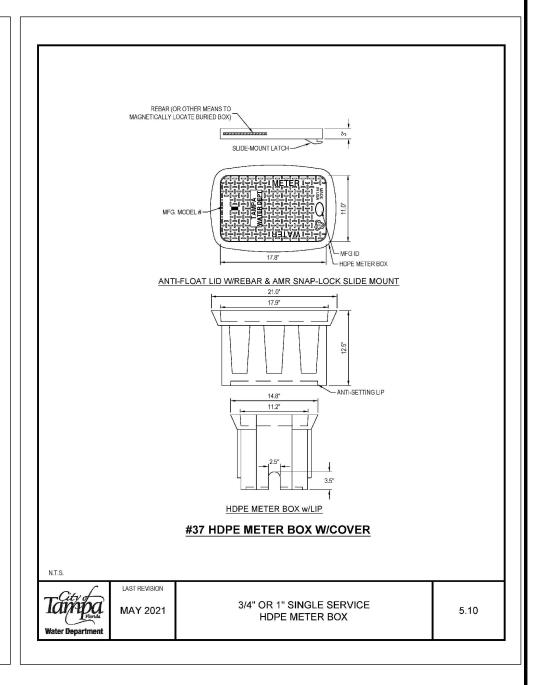
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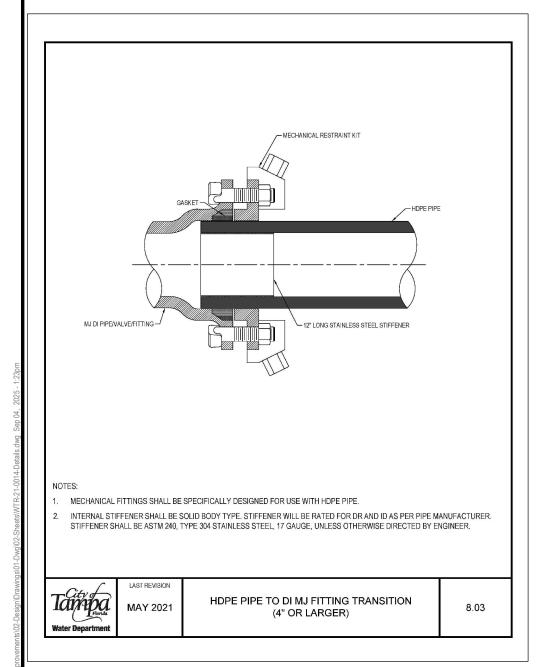


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