

Tampa Construction Specifications
Contract 26-C-00003; FY26 Miscellaneous PS Riser Replacements

CITY OF TAMPA, FLORIDA

PLANS FOR

Contract 26-C-00003 FY26 Miscellaneous PS Riser Replacements

These Plans for the referenced projects come from uncontrolled sources and do not conform to WCAG 2.1 at level AA. Individuals with disabilities seeking assistance with the individual project plans or specifications should e-mail Contractadministration@tampagov.net.

City of Tampa

Contract Administration Department

Tampa Municipal Office Building

306 E Jackson Street #280A4N Fourth Floor

Tampa, Florida 33602

SEPTEMBER 2026



CONTRACT NO. 26-C-00003

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS COVER SHEET	SHEET
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User: ssvt Drawing Name: C:\Users\ssvt\AppData\Local\Temp\AcPublish_1976\FY26 Miscellaneous PS Riser Replacements.dwg Layout: SHT 2; Last Saved: Jul 21, 2026 - 9:43am

LEGEND

EX SEWERS

EX FORCE MAIN

EX SAN SEWER & MANHOLES

EX STORM SEWER & MANHOLES

PROP SEWERS

PROP FORCE MAIN

PROP SANITARY SEWER & MANHOLES

PROP STORM SEWER & MANHOLES

OTHER FEATURES

RIGHT of WAY LINE

EDGE of PAVEMENT

WATER LINE

GAS LINE

ELECTRICAL CABLE or DUCT

TELEPHONE CABLE or DUCT

TV CABLE

VALVE, AIR RELEASE VALVE

HYDRANT

CATCH BASIN, GRATE

POWER POLE

TELEPHONE POLE

GUY POLE

GUY WIRE

VALVE VAULT

WATER METER

ELECTRICAL MANHOLE or VAULT

TELEPHONE MANHOLE or VAULT

TRAFFIC BOX or VAULT

BUILDING LIMIT

PROPERTY OWNERSHIP

FENCE

CONIFER

PALM

OAK

OTHER

SHRUB

HEDGE

RAILROAD TRACKS

IRON PIPE

CONTROL POINT

CONCRETE MONUMENT

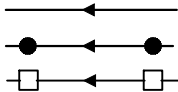
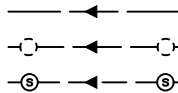
OPEN DITCHES

EXISTING WYE

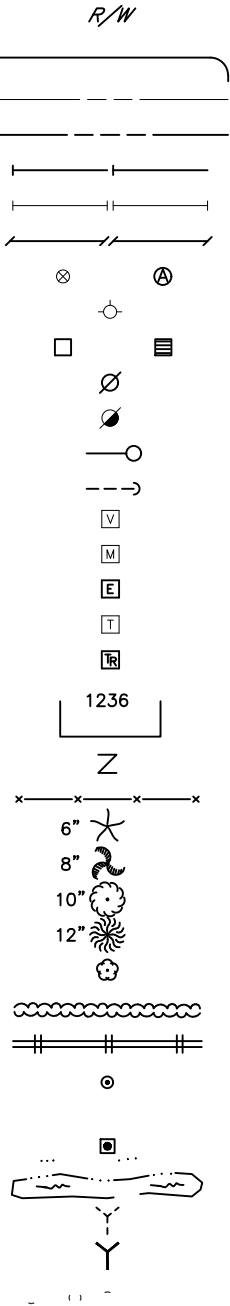
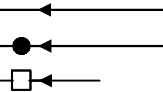
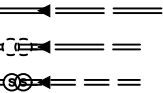
PROPOSED WYE

CLEAN OUT

UP to 36"
& SMALLER



36" & LARGER



AIR RELEASE VALVE
APPROXIMATE LOCATION
BENCH MARK
BURIED TELEPHONE
CONCRETE PIPE
DIAMETER RATIO
DUCTILE IRON PIPE
EDGE OF PAVEMENT
FIBER OPTIC CABLE
FLORIDA DEPT. OF TRANSPORTATION
FORCE MAIN
HIGH DENSITY POLYETHYLENE PIPE
EL INVERT ELEVATION

ABBREVIATIONS

ARV
AL
BM
BT
CP
DR
DIP
EOP
FOC
FDOT
FM
HDPE
IE or INV
MAINTENANCE OF TRAFFIC
MANHOLE
PLUG VALVE
POINT of INTERSECTION
POLYVINYL CHLORIDE PIPE
REINFORCED CONCRETE PIPE
RESTRAINED MECHANICAL JOINT
RIGHT of WAY
TOP of PIPE
VERIFIED VERT. AND HORZ. LOCATION
VITRIFIED CLAY PIPE
WASTEWATER
MOT
MH or M
PV
PI
PVC
RCP
RMJ
R/W
TOP
Vvh
VCP
WW

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JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

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CITY of TAMPA
WASTEWATER DEPARTMENT

FY26 MISCELLANEOUS PS RISER REPLACEMENTS
LEGEND & INDEX

SHEET
2

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DEMOLITION NOTES

1. SALVAGEABLE MATERIAL, AS DETERMINED BY DEPARTMENT PERSONNEL, SHALL BE DELIVERED TO THE PARTS WAREHOUSE LOCATED ON THE TREATMENT PLANT SITE. NON-SALVAGEABLE MATERIALS ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
2. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN AS NEAT AND ORDERLY CONDITION AS POSSIBLE DURING CONSTRUCTION OPERATIONS. SITE SHALL BE SECURED WITH TEMPORARY FENCING AND STRUCTURES DURING HOURS WHEN CONTRACTOR IS NOT PRESENT TO ENSURE SAFETY OF CITY EMPLOYEES AND THE PUBLIC.
3. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING, SPRINKLER SYSTEM PIPING AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER. CONTRACTOR SHALL SOD ALL UNPAVED AREAS.

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY PERMITS FOR THE PUMPING STATION WORK.
2. CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
3. NORMAL WORKING HOURS SHALL BE WEEKDAYS FROM 7:30 AM TO 4:00 PM UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. AFTER WET WELL IS DEWATERED, THE CONTRACTOR SHALL CLEAN WET WELL OF ALL DEBRIS. DEBRIS MAY BE DELIVERED AND DISPOSED OF AT THE CITY OF TAMPA HOWARD F. CURREN AWTP, 2700 MARITIME BOULEVARD.
5. TESTING OF THE NEW DISCHARGE PIPES WILL BE ACCOMPLISHED BY OPERATING EACH PUMP FOR A MINIMUM 2 HOUR DURATION AND OBSERVING FOR ANY LEAKS. ANY MANUAL PUMP OPERATION OR SWITCHING PUMPS MUST BE PERFORMED BY CITY PERSONNEL.
6. IT IS THE ENGINEER'S INTENT THAT CONTINUOUS SERVICE WILL BE MAINTAINED THROUGHOUT THE PROJECT.
7. CONTRACTOR SHALL VERIFY QUANTITIES OF ALL NECESSARY PIPES, REDUCERS, FITTINGS, SUPPORTS, AND ANY MISCELLANEOUS BRACKETS.
8. DIMENSIONS SHOWN ARE NOT NECESSARILY ACCURATE TO THE DEGREE REQUIRED FOR FABRICATION. EXISTING DIMENSIONS AND VIEWS ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE. CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT DIMENSIONS AND REFLECT THEM ON DETAILED SHOP DRAWINGS FOR APPROVAL BEFORE ANY FABRICATION.
9. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED BY THE CITY FOR ALL PROPOSED ITEMS. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE ORIGINALS OR HIGH QUALITY COPIES (CLEARLY LEGIBLE). NO FAXED SHEETS OR POOR QUALITY COPIES WILL BE ACCEPTED FOR SUBMITTAL REVIEW.
10. PUMP DISCHARGE PIPING IN WET WELL SHALL BE HDPE, SDR-11, GREEN STRIPE, DIPS-OD. HDPE JOINTS SHALL BE FLANGED WITH 316 SS BACK UP RINGS.
11. PLUG VALVES SHALL BE DEZURIK, PEF 100% PORT, ECCENTRIC PLUG VALVES. 6" PLUG VALVE OR SMALLER SHALL BE PROVIDED WITH 2" NUT. 8" TO 12" PLUG VALVES SHALL BE PROVIDED WITH HANDWHEEL. THESE VALVES ARE STANDARDIZED ITEMS AT THIS FACILITY AND NO "OR EQUALS" WILL BE CONSIDERED.
12. CHECK VALVES SHALL BE APCO RUBBER FLAPPER SWING CHECK VALVES, SERIES 100. THIS EQUIPMENT IS A STANDARDIZED ITEM AT THIS FACILITY AND NO "OR EQUAL" SUBMITTALS WILL BE CONSIDERED.
13. ALL HARDWARE SHALL BE TYPE 316 OR 316L STAINLESS STEEL. ALL NUTS INSIDE THE WET WELL SHALL BE 316 S.S. NYLON LOCK NUTS. THIS INCLUDES ALL NUTS USED ON PIPE SUPPORTS, PIPE FLANGES, THREADED RODS, PUMP STUDS, INTERMEDIATE GUIDE RAIL BRACKETS & PUMP BASE. NUTS FOR FLANGES ABOVE GROUND SHALL BE REGULAR 316 S.S. NUTS
14. PIPE SUPPORTS SHALL BE CONSTRUCTED AS SHOWN IN THE PIPE SUPPORT DETAIL.
15. ALL CEMENTITIOUS CONCRETE AND GROUT, UNLESS OTHERWISE NOTED, SHALL BE CLASS "B", 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. ALL REINFORCING STEEL SHALL BE GRADE 60. THE 28-DAY COMPRESSIVE STRENGTH FOR FLOWABLE FILL SHALL BE BETWEEN 50-100 PSI.
16. OSHA STANDARD SAFETY EQUIPMENT SUCH AS SAFETY HARNESSSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.

17. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION 2020, & CHAPTER 5 OF THE CITY OF TAMPA CODE.
18. ALL METAL PIPE, FITTINGS, VALVES, ETC. SHALL RECEIVE REQUIRED COATING SCHEDULE PER SPECIFICATION W-36 PAINTING.
19. ALL STAINLESS STEEL PARTS TO BE WELDED SHALL BE THE LOW-CARBON VERSION OF THE GRADE OF STAINLESS STEEL THAT IS CALLED FOR, SUCH AS: T-316L OR T-304L.
20. CONTRACTOR TO SUBMIT METHOD FOR 100% WATERTIGHT SEALING AT PIPE PENETRATIONS THROUGH STRUCTURES. PROPOSED LINK SEAL OR APPROVED EQUAL.
21. CONTRACTOR SHALL PROVIDE A REDUCED PRESSURE BACKFLOW-PREVENTION DEVICE IN WATER SERVICE LINE, AS SHOWN IN DETAILS, AT A PLACE TO BE SPECIFIED DURING CONSTRUCTION. BACKFLOW PREVENTION DEVICE SHALL BE 1" WILKINS, MODEL #975 XL, OR EQUAL.
22. ALL DIP PIPE AND FITTINGS SHALL BE CLASS 53 WITH PROTECTO 401 INTERIOR COATING. ALL BURIED DIP PIPE AND FITTINGS SHALL BE POLYWRAPPED.
23. CONTRACTOR SHALL REHABILITATE PUMPING STATION IN THE SAME ORDER LISTED ON THE INDEX SHEET.
24. CONTRACTOR MAY UTILIZE FLANGE ADAPTERS FOR THE ABOVEGROUND DISCHARGE PIPING ASSEMBLY. FLANGE ADAPTERS SHALL BE PROVIDED AT NO ADDITIONAL COST AND SHALL BE MEGAFLANGE SERIES 2100 RESTRAINED ADAPTERS AS MANUFACTURED BY EBAA IRON WITH THE MEGA-BOND RESTRAINED COATING SYSTEM OR APPROVED EQUAL.
25. ALL CONCRETE PAVEMENT, UNLESS OTHERWISE NOTED, SHALL BE MINIMUM 6" THICK CONCRETE WITH 4x4 W6 x W6 WWF. CONCRETE SHALL BE CONSTRUCTED ON COMPACTED SUB-BASE (MINIMUM 98% MODIFIED PROCTOR) WITH 1.5" DEEP CONTROL JOINTS SAW-CUT AT 15' MAX, CUT WITHIN 12 HOURS OF CONCRETE PLACEMENT.
26. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL TREES WITHIN THE VICINITY OF THE PROPOSED CONSTRUCTION IN ACCORDANCE WITH CHAPTER 27 OF THE CITY OF TAMPA CODE. PRUNING OF BRANCHES IS NOT AUTHORIZED WITHOUT PRIOR APPROVAL FROM THE CITY OF TAMPA PLANNING AND DEVELOPMENT DEPARTMENT, NATURAL RESOURCE SECTION, AND SHALL BE COMPLETED BY A CERTIFIED ARBORIST. EXCAVATION WITHIN THE PROTECTIVE RADIUS OF TREES (20' FOR A GRAND TREE (32" OR GREATER DBH), 15' FOR A SPECIMEN TREE (24"- 31" DBH) AND 10' FROM PROTECTED TREE (5" - 23" DBH, OR ANY MITIGATION TREE) WILL REQUIRE ROOT PRUNING BY AN ARBORIST WITH THE APPROPRIATE EQUIPMENT TO ASSURE ROOTS ARE SEVERED CLEAN AT THE APPROVED RADIUS. NO ROOTS LARGER THAN 2" ARE TO BE SEVERED. IF ROOTS OVER 2" ARE ENCOUNTERED, NATURAL RESOURCES WILL BE CONSULTED. FOR QUESTIONS REGARDING THESE REQUIREMENTS, PLEASE CONTACT THE PLANNING DEPARTMENT, NATURAL RESOURCES SECTION AT 274-3100 OR 1400 N. BOULEVARD, TAMPA, FLORIDA 33607.

BYPASSING NOTES

1. CONTRACTOR SHALL SUPPLY SOUND ATTENUATED DIESEL BYPASS PUMPS PRIMARY & BACKUP, CAPABLE OF DELIVERING THE FLOW SHOWN ON PUMP SUMMARY PAGE PLUS ANY LOSSES PRODUCED IN THE TEMPORARY BY-PASS PIPING. CONTRACTOR SHALL SUBMIT BYPASS PUMPING PLAN TO THE ENGINEER FOR APPROVAL.
2. CONTRACTOR TO PROVIDE TANKERS (MINIMUM 4,000 GALLON CAPACITY) TO HAUL WATER FOR ALL PUMPING STATIONS THAT NEED TO BE SHUT DOWN DURING THE BYPASS CONNECTION AND/OR LINSTOP INSTALLATIONS. THE QUANTITY OF TANKERS REQUIRED IS LISTED IN THE SUMMARY TABLE ON SHEET 4. THE CITY WILL PROVIDE A MAP DURING CONSTRUCTION SHOWING THE TANKER DISCHARGE LOCATIONS. THE CONTRACTOR SHALL CONTINUE HAULING WATER UNTIL PUMPING STATION IS SUCCESSFULLY PLACE BACK INTO SERVICE.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL BYPASS PUMPING REQUIREMENTS.

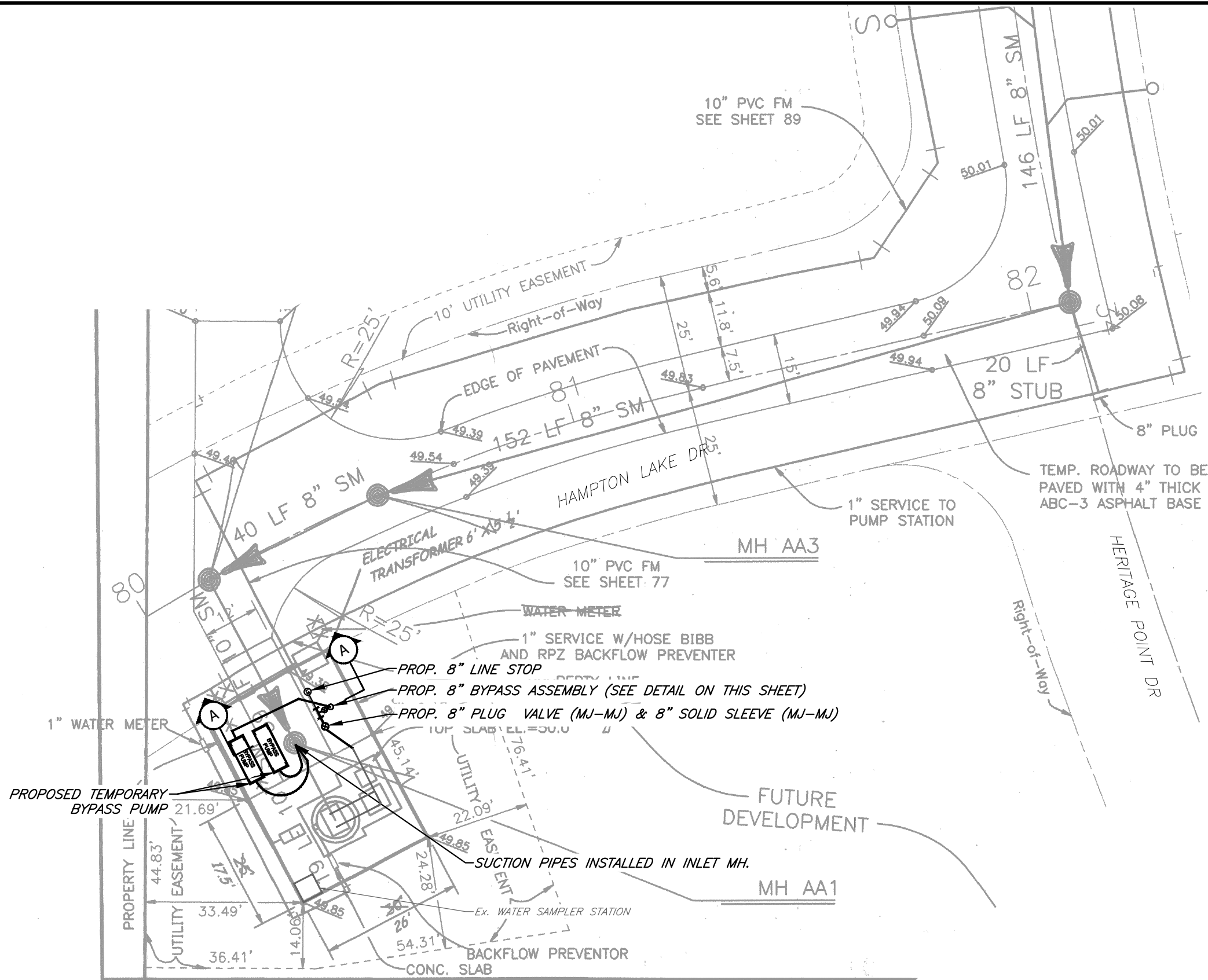
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS GENERAL NOTES	SHEET
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NAME	REQ'D BYPASS FLOW RATE (gpm)	TOTAL DYNAMIC HEAD (ft)	NUMBER OF TANKERS REQ'D	WETWELL BOTTOM EL (ft)	WETWELL TOP SLAB EL (ft)	INLET PIPE INVERT ELEVATION (ft)	EXISTING INLET PIPE SIZE & TYPE	FORCE MAIN SIZE (in)	PROPOSED FLYGT PUMP BASE SIZE (in)	PROPOSED RISER PIPE SIZE	PROPOSED VALVE SIZE (in)	EXISTING PUMP MODEL (to remain)	PUMP GUIDE RAILS	PROPOSED SAFETY RAIL SYSTEM	PROPOSED LINE STOP	BYPASS NOTES	NOTES
COFFEY	540	229	2	24.00	50.00	30.06	10" PVC	8	6	8	8	FLYGT CP3300	FLYGT 3"	YES	YES	PLUG INLET PIPE INTO WETWELL AND SUCTION AT INLET MANHOLE, BYPASS DISCHARGE INTO PROPOSED BYPASS CONNECTION.	
DUNHAM	460	220	2	24.00	50.00	29.73	10" PVC	8	6	8	8	FLYGT CP3300	FLYGT 3"	YES	YES	PLUG INLET PIPE INTO WETWELL AND SUCTION AT INLET MANHOLE, BYPASS DISCHARGE INTO PROPOSED BYPASS CONNECTION.	
ARBOR CREEK	180	105	2	28.97	48.18	35.82	8" PVC	6	4	4	4	ABS AFP 1047.2	FLYGT 2"	YES	YES	PLUG INLET PIPE INTO WETWELL AND SUCTION AT INLET MANHOLE, BYPASS DISCHARGE INTO PROPOSED BYPASS CONNECTION.	
INTERSTATE BUSINESS PARK	300	100	2	4.53	24.19	9.92	8" VCP	6	6	6	6	FLYGT C3152	FLYGT 2"	YES	YES	USE FLOW THROUGH PLUG INSIDE WETWELL FOR PUMP SUNCTION; BYPASS DISCHARGE INTO PROPOSED BYPASS CONNECTION.	
* REFER TO PLANS FOR COMPLETE SCOPE OF PROPOSED WORK																	
*** CONTRACTOR SHALL USE FLYGT PUMP BASES, FLYGT GUIDE RAILS, FLYGT UPPER AND INTERMEDIATE BRACKETS FOR ALL PUMPING STATIONS REGARDLESS OF EXISTING PUMP MANUFACTURER.																	

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS SUMMARY	SHEET
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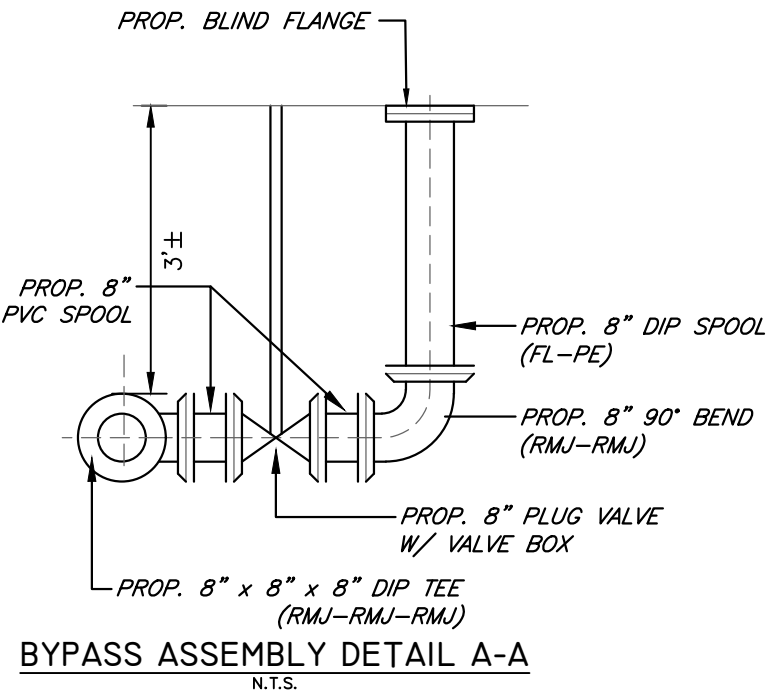
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EXISTING SITE AND BYPASS PLAN
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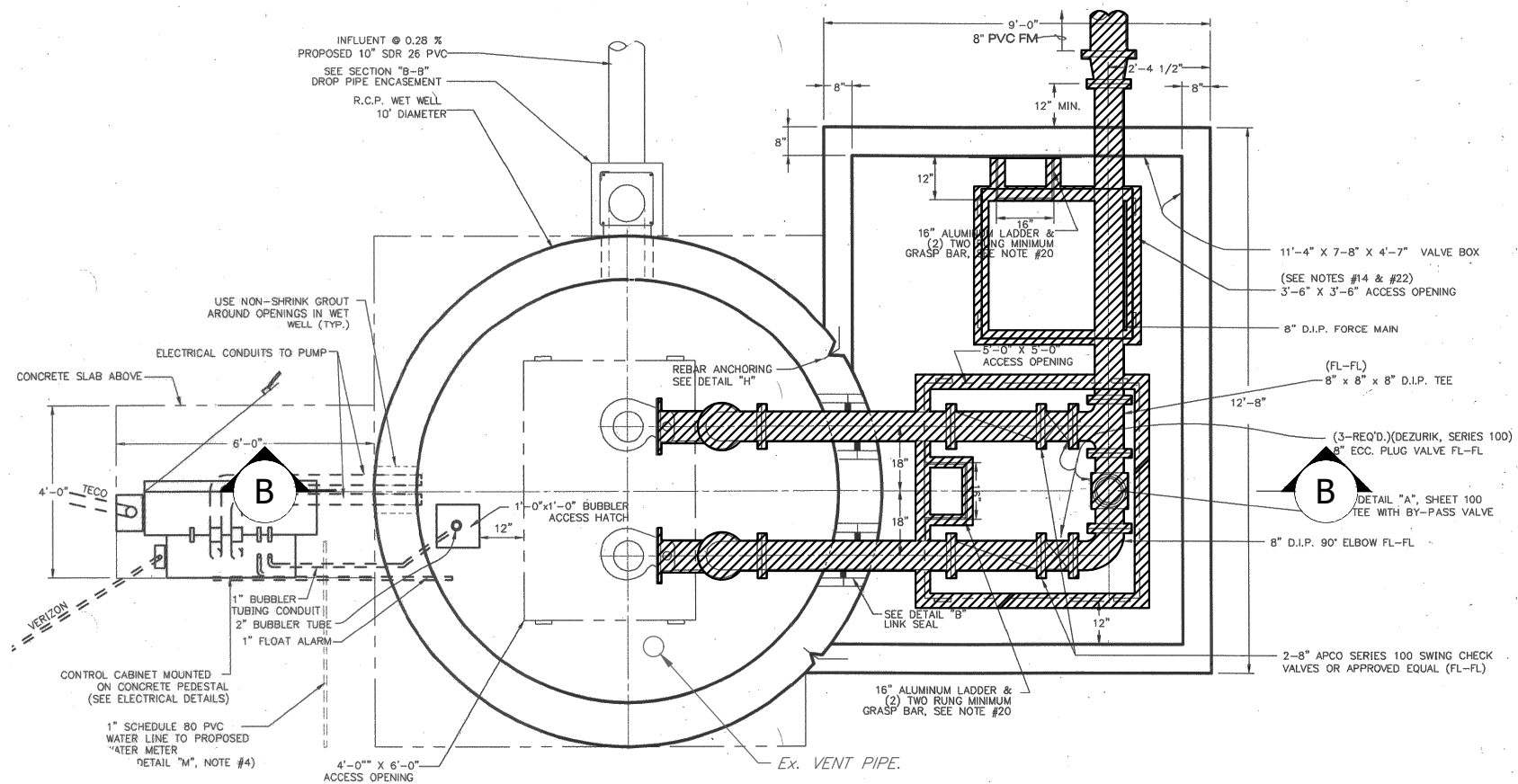
COFFEY PS
N.T.S.



BYPASS ASSEMBLY DETAIL A-A
N.T.S.

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EXISTING/DEMO PLAN VIEW

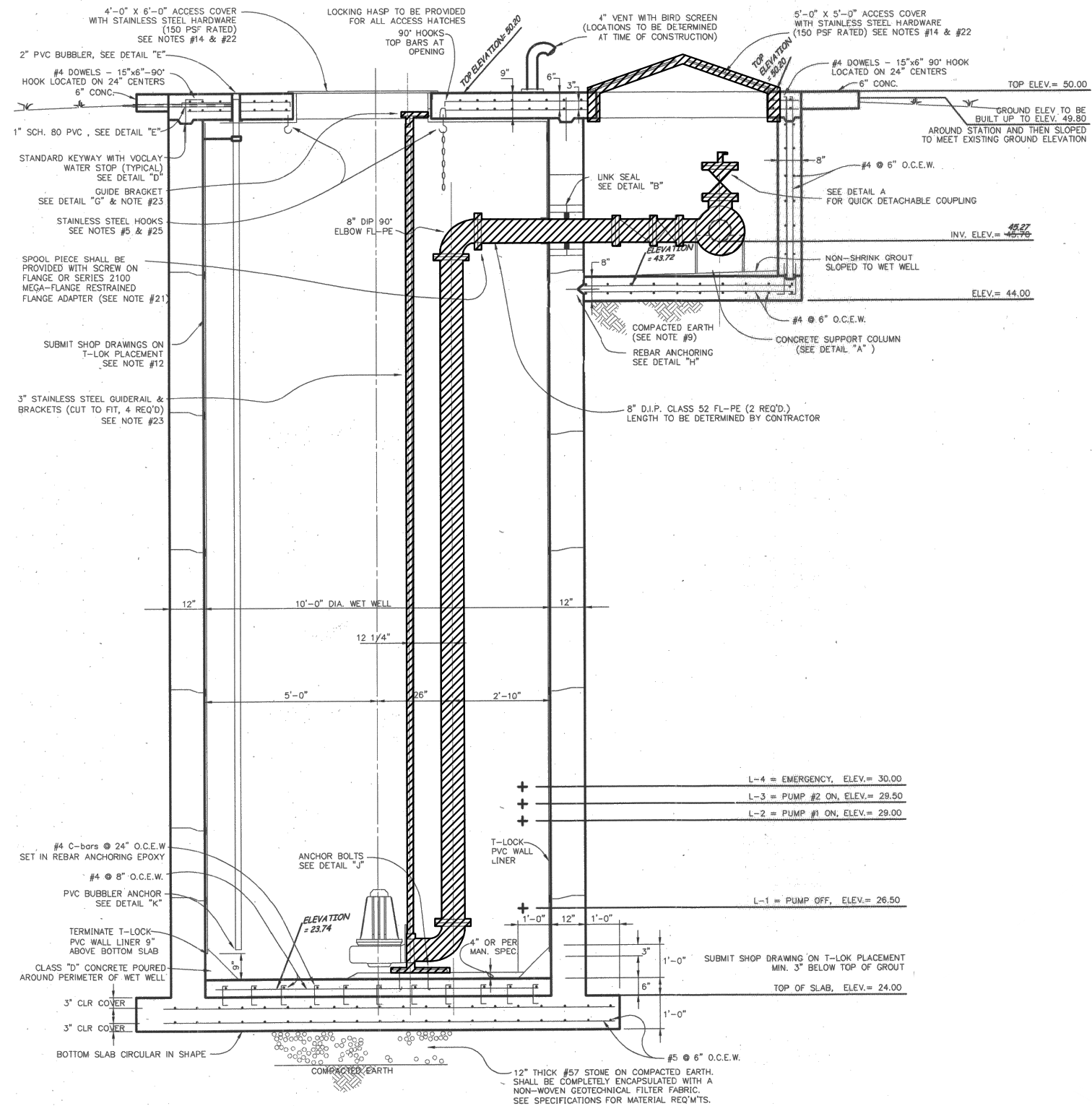
SCALE : 1/4" = 1'



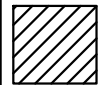
HATCHED AREAS ON THIS SHEET INDICATE PIPING,
FITTINGS AND VALVES TO BE REMOVED

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS COFFEY PS EXISTING/DEMO PLAN VIEW	SHEET
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SECTION B-B
SCALE: 1/4" = 1'



HATCHED AREAS ON THIS SHEET INDICATE PIPING,
FITTINGS AND VALVES TO BE REMOVED

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

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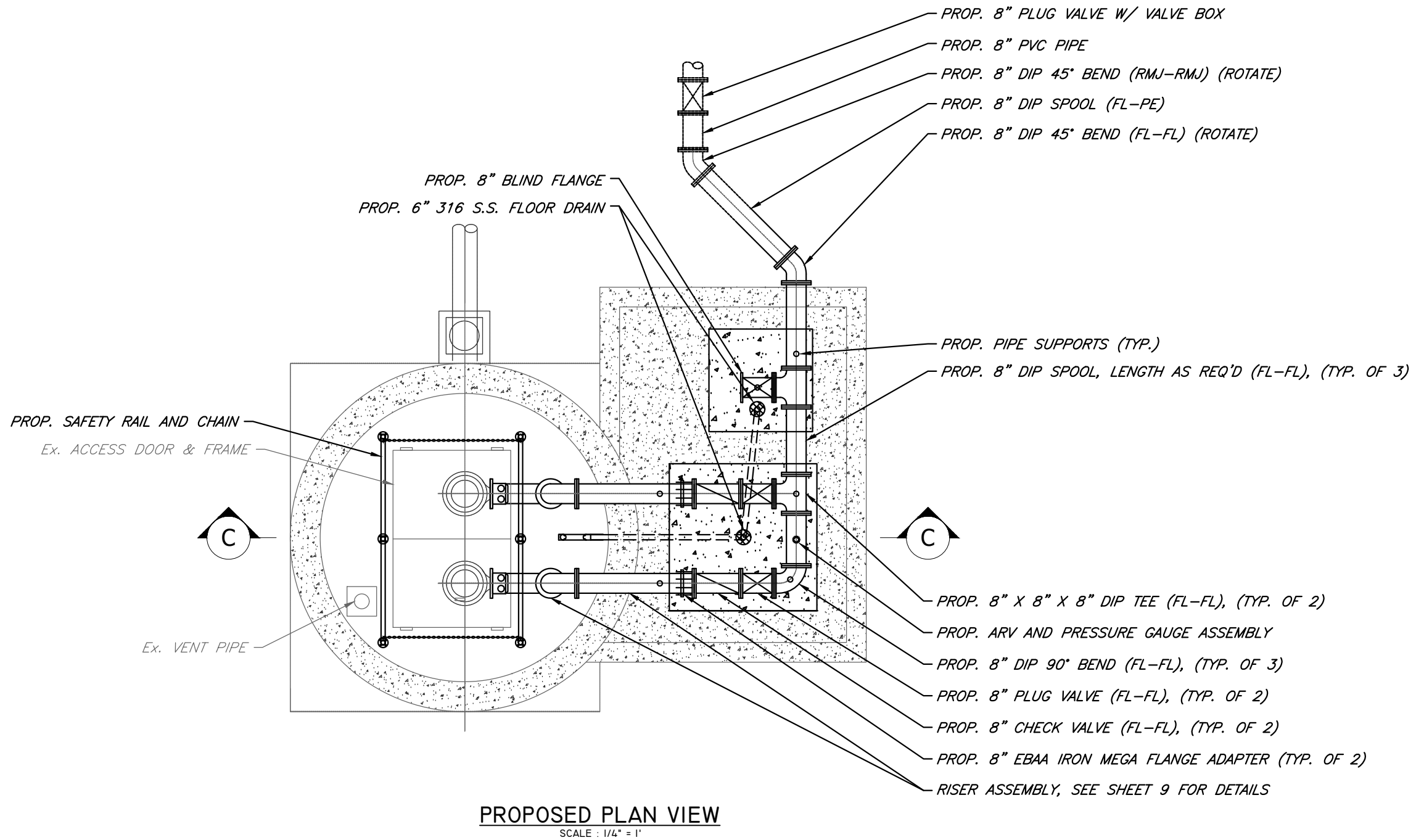
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WASTEWATER DEPARTMENT

FY26 MISCELLANEOUS PS RISER REPLACEMENTS
COFFEY PS
EXISTING/DEMO SECTION PLAN

SHEET

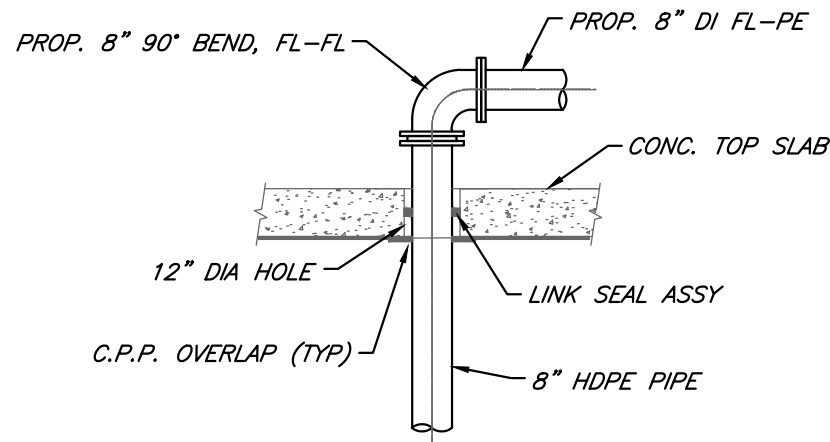
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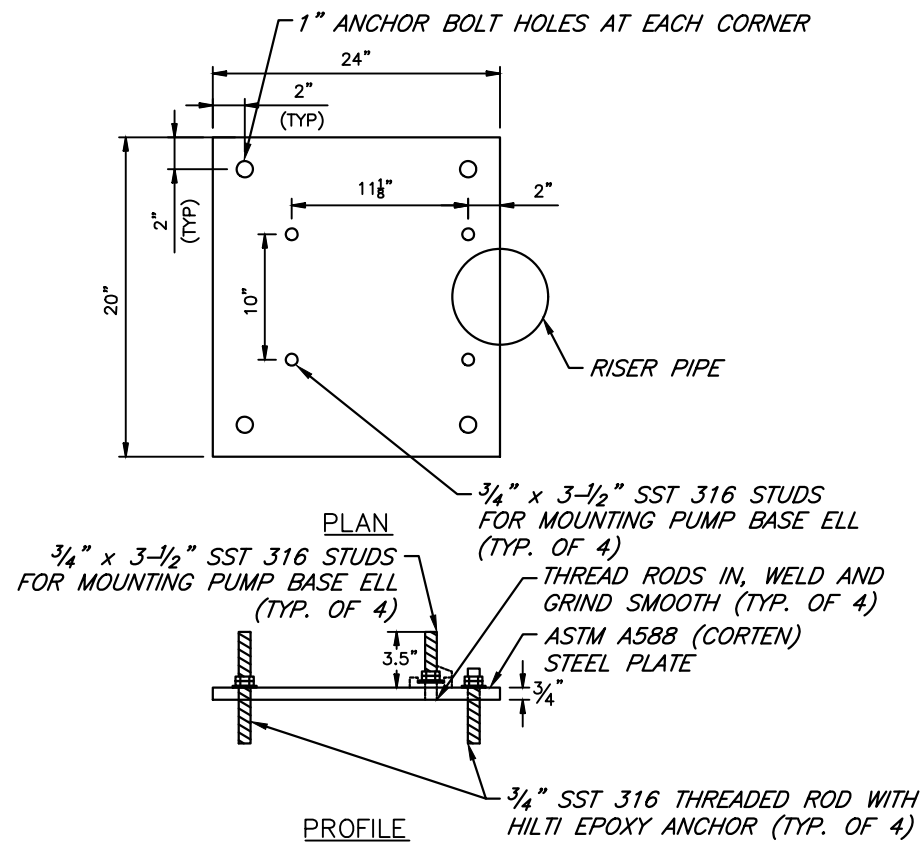
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS COFFEY PS PROPOSED PLAN VIEW	SHEET
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PIPE PENETRATION DETAIL

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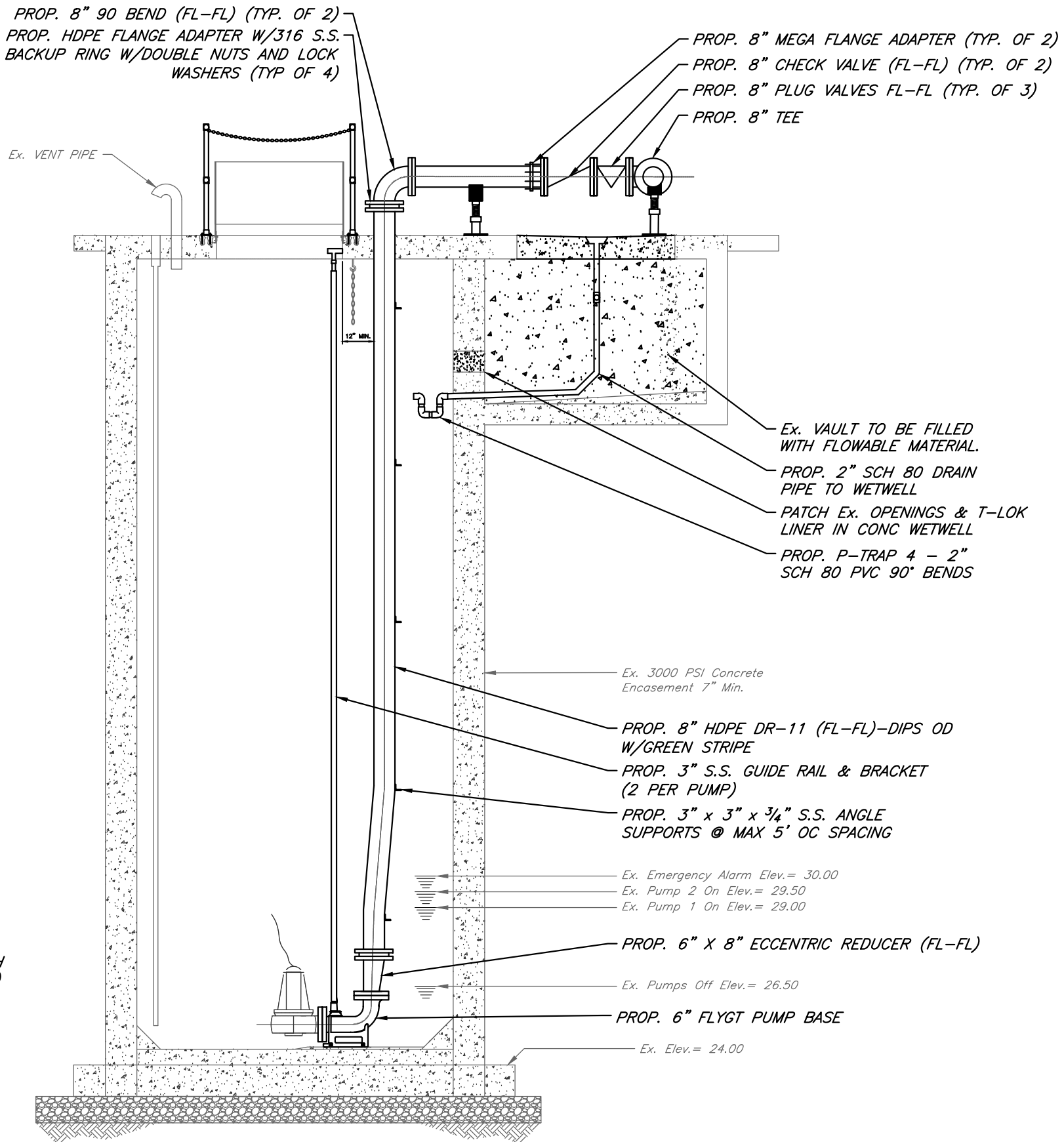


MOUNTING PLATE DETAIL

SCALE : N.T.S.

NOTES:

1. INSTALL DOUBLE NUTS ON ALL EIGHT (8) THREADED RODS. ALL NUTS INSIDE WETWELL SHALL BE 316 SST NYLOC TYPE LOCKING NUTS.
2. THE PLATE EDGES AND ALL HOLES SHALL BE GROUND SMOOTH TO REMOVE ALL BURRS.
3. ALIGNMENT OF ANCHOR BOLTS SHALL BE AS RECOMMENDED BY PUMP MANUFACTURER.



SECTION C-C

SCALE : 1/4" = 1'

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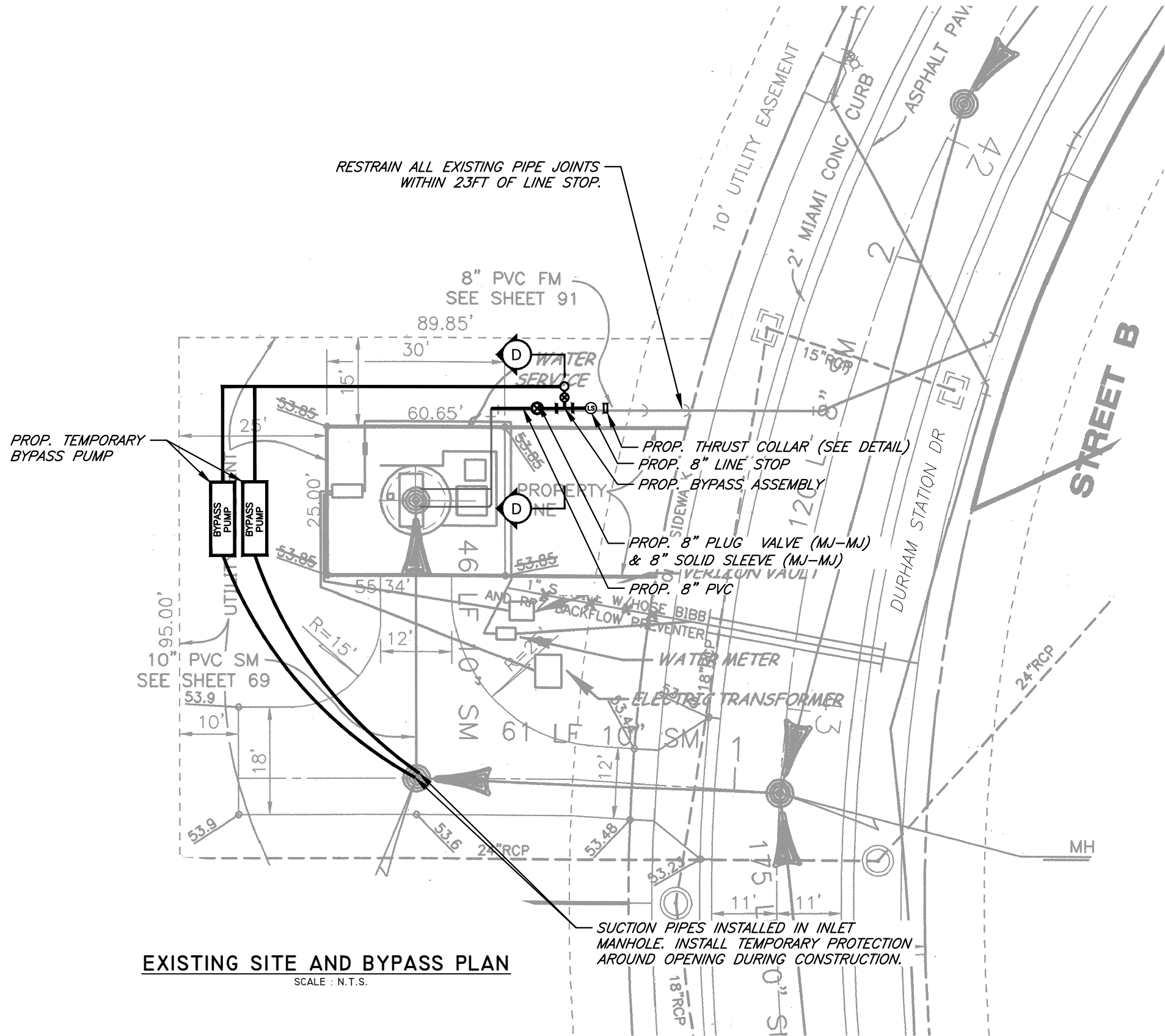
CITY of TAMPA
WASTEWATER DEPARTMENT

FY26 MISCELLANEOUS PS RISER REPLACEMENTS
COFFEY PS
PROPOSED SECTION PLAN

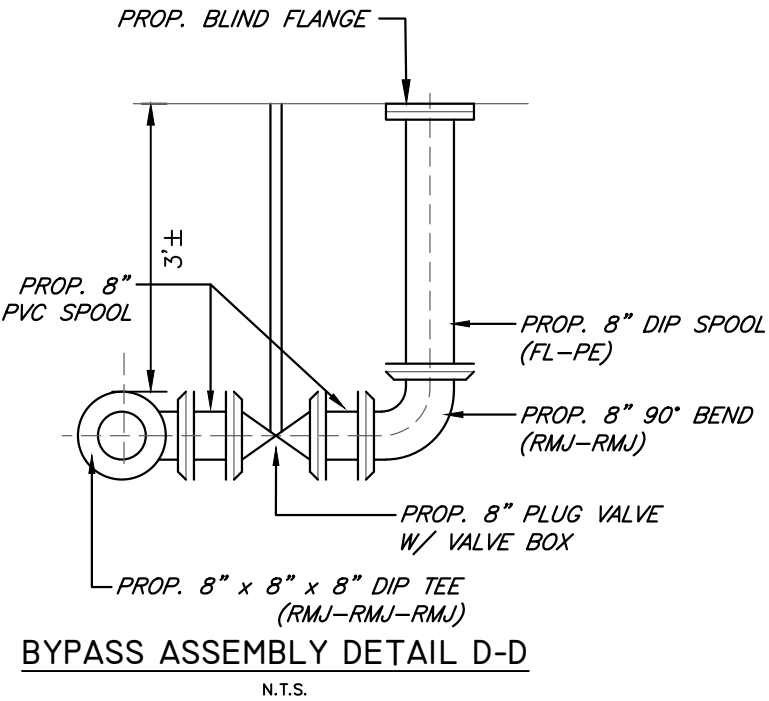
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DUNHAM PS
N.T.S.



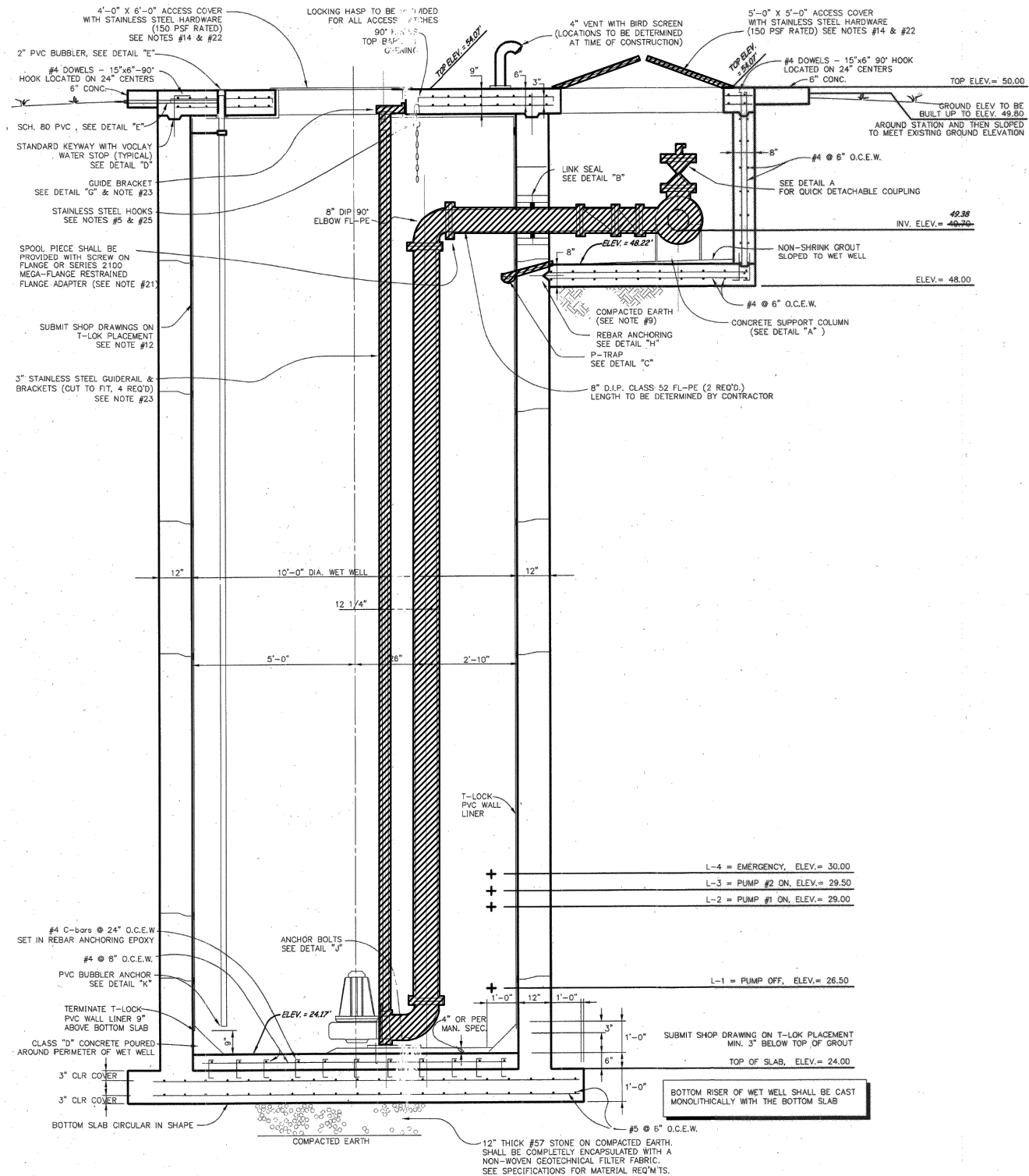
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS DUNHAM PS EXISTING SITE AND BYPASS PLAN	SHEET
	3						10
	2						
	1						



HATCHED AREAS ON THIS SHEET INDICATE PIPING,
FITTINGS AND VALVES TO BE REMOVED

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS DUNHAM PS EXISTING/DEMO PLAN WITH SECTION	SHEET
	3			DRN: GH			II
	2			CKD:			
	1			DATE:			

User: ssvt Drawing Name: C:\Users\ssvt\AppData\Local\Temp\AcPublish_1976\FY26 Miscellaneous PS Riser Replacements.dwg Layout: SHT 12; Last Saved: Jul 21, 2026 - 9:43am



SECTION E-E
SCALE : 3/16" = 1'



HATCHED AREAS ON THIS SHEET INDICATE PIPING, FITTINGS AND VALVES TO BE REMOVED

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
3		
2		
1		

DES: VT
DRN: GH
CKD:
DATE:

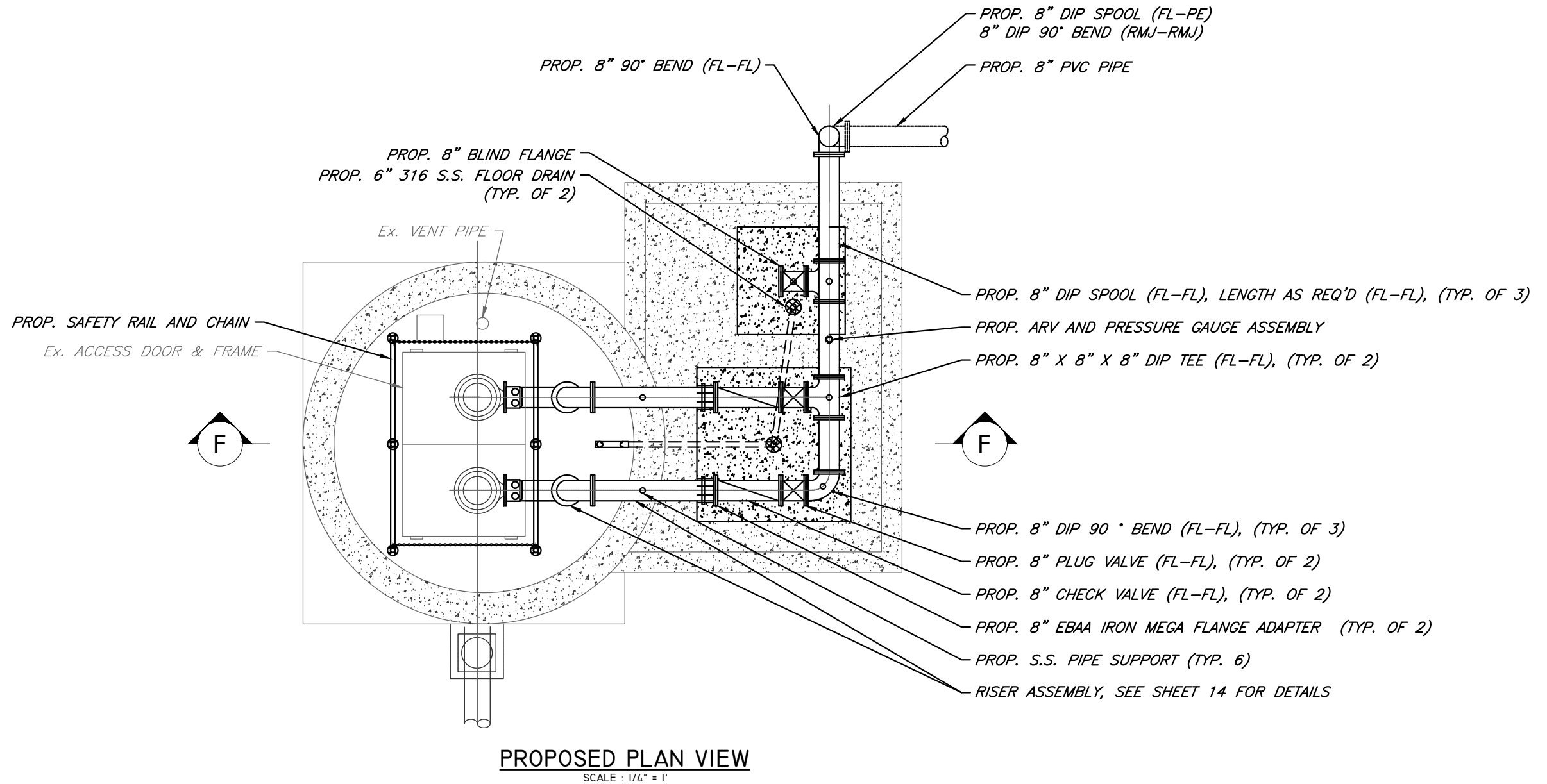
CITY of TAMPA
WASTEWATER DEPARTMENT

FY26 MISCELLANEOUS PS RISER REPLACEMENTS
DUNHAM PS
EXISTING/DEMO SECTION PLAN

SHEET

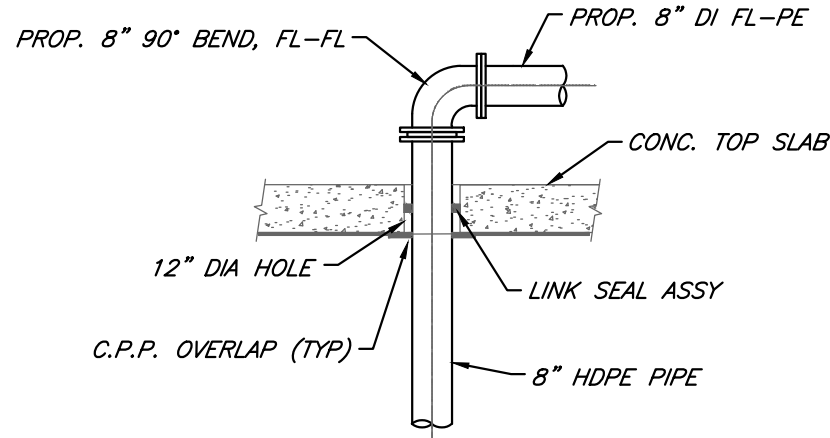
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Layout: SHT 13; Last Saved: Jul 21, 2026 - 9:43am



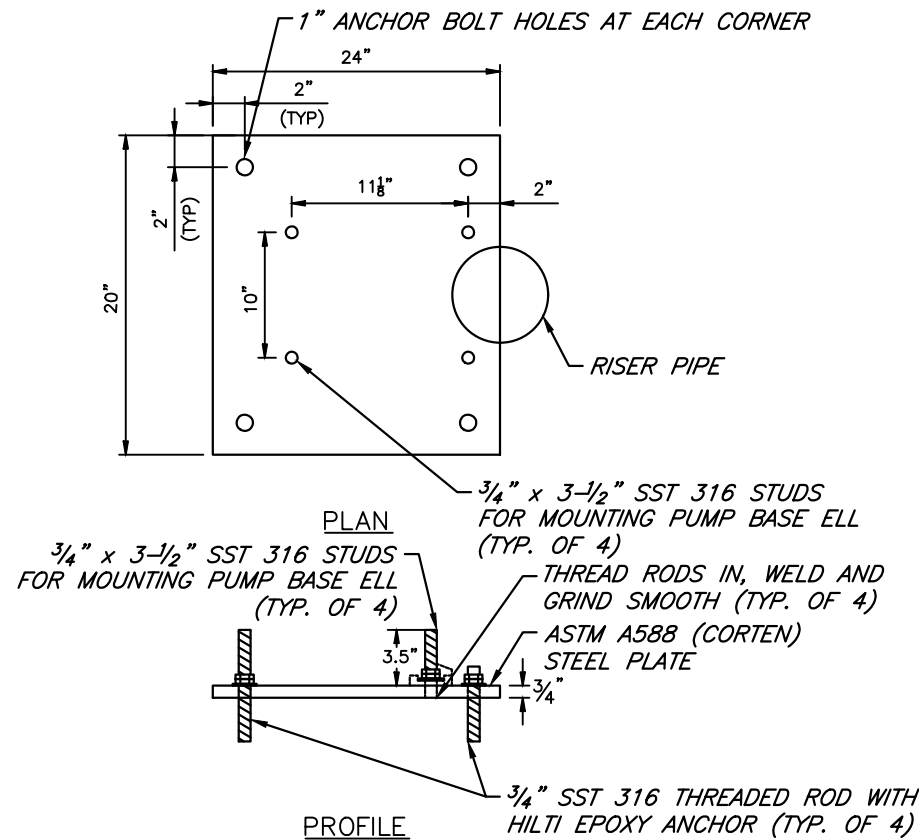
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS DUNHAM PS PROPOSED PLAN VIEW	SHEET
	3			DRN: GH			
	2			CKD:			13
	1			DATE:			

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PIPE PENETRATION DETAIL

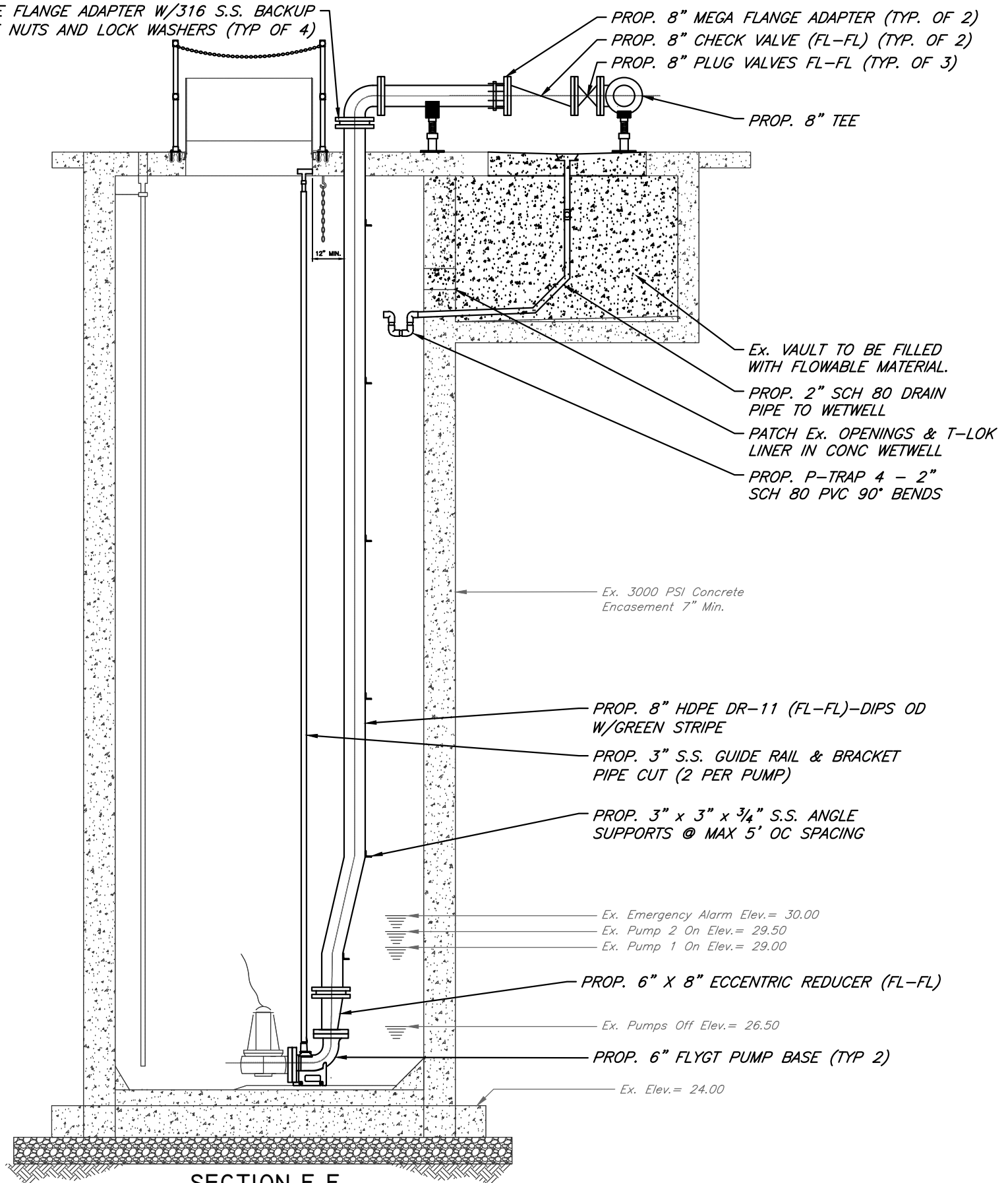
SCALE : N.T.S.



MOUNTING PLATE DETAIL

SCALE : N.T.S.

- NOTES:
1. INSTALL DOUBLE NUTS ON ALL EIGHT (8) THREADED RODS. ALL NUTS INSIDE WETWELL SHALL BE 316 SST NYLOC TYPE LOCKING NUTS.
 2. THE PLATE EDGES AND ALL HOLES SHALL BE GROUND SMOOTH TO REMOVE ALL BURRS.
 3. ALIGNMENT OF ANCHOR BOLTS SHALL BE AS RECOMMENDED BY PUMP MANUFACTURER.



SECTION F-F

SCALE : 1/4" = 1'

No.	DATE	REVISIONS
3		
2		
1		

DES: VT
DRN: GH
CKD:
DATE:

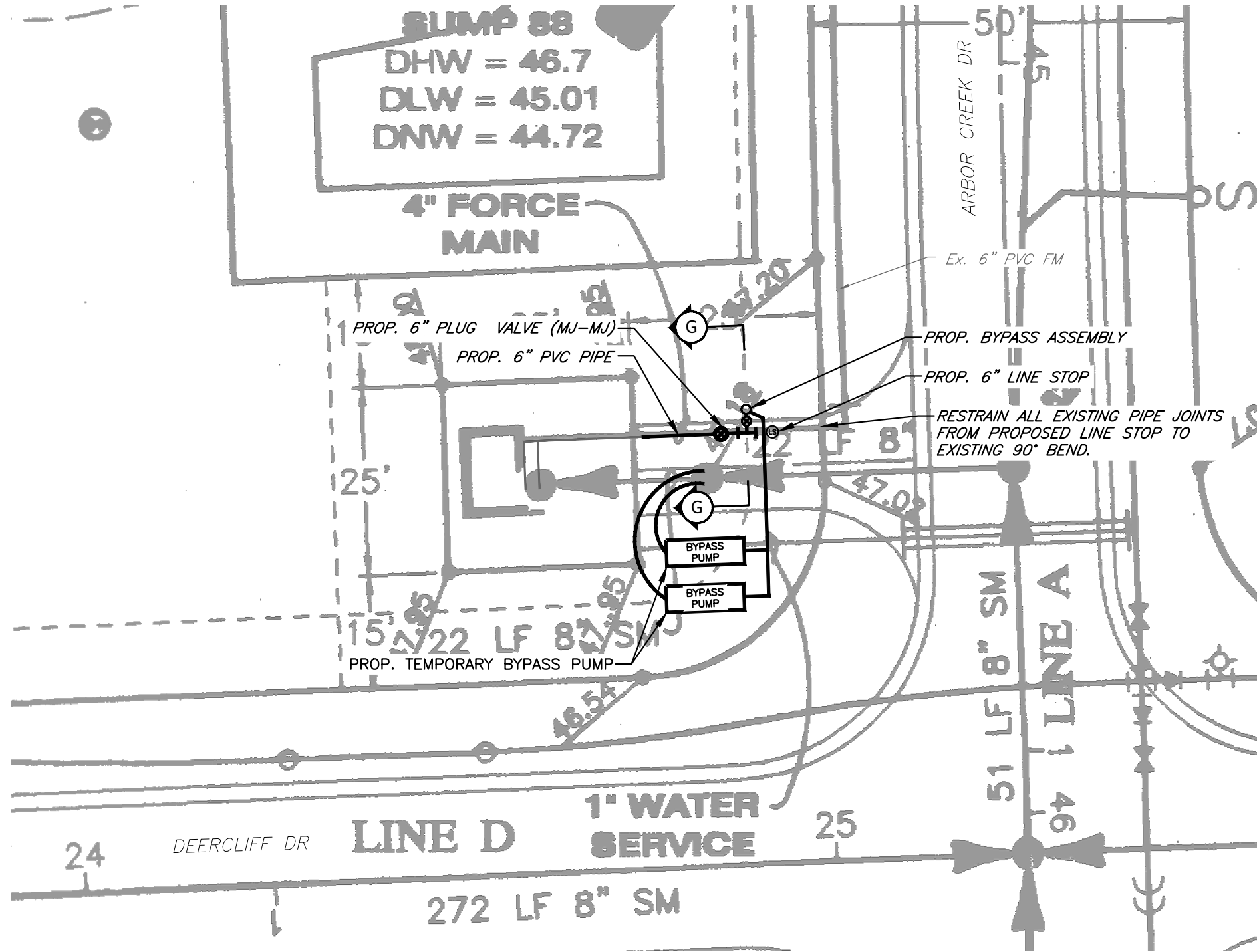
CITY of TAMPA
WASTEWATER DEPARTMENT

FY26 MISCELLANEOUS PS RISER REPLACEMENTS
DUNHAM PS
PROPOSED SECTION PLAN

SHEET

14

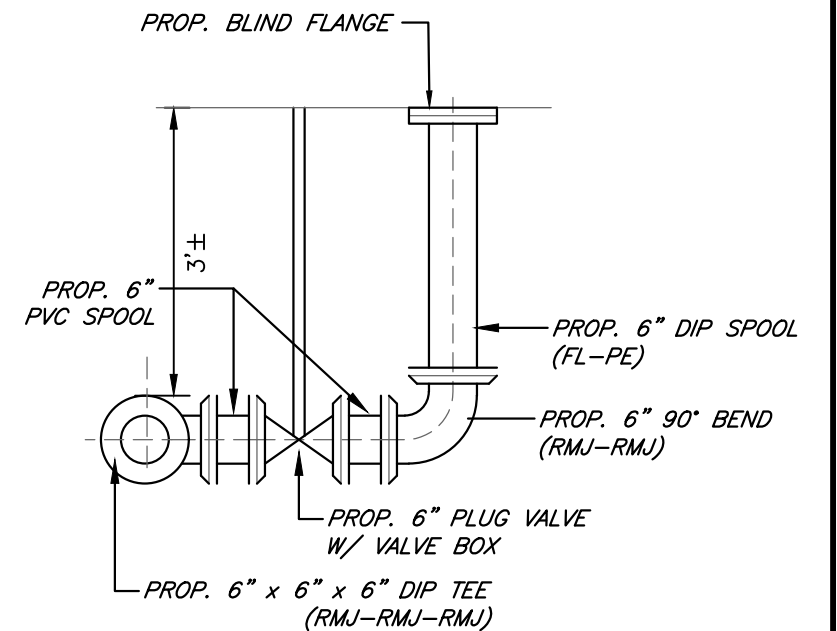
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Layout: SHT 15; Last Saved: Jul 21, 2026 - 9:43am



EXISTING SITE AND BYPASS PLAN
SCALE : N.T.S.



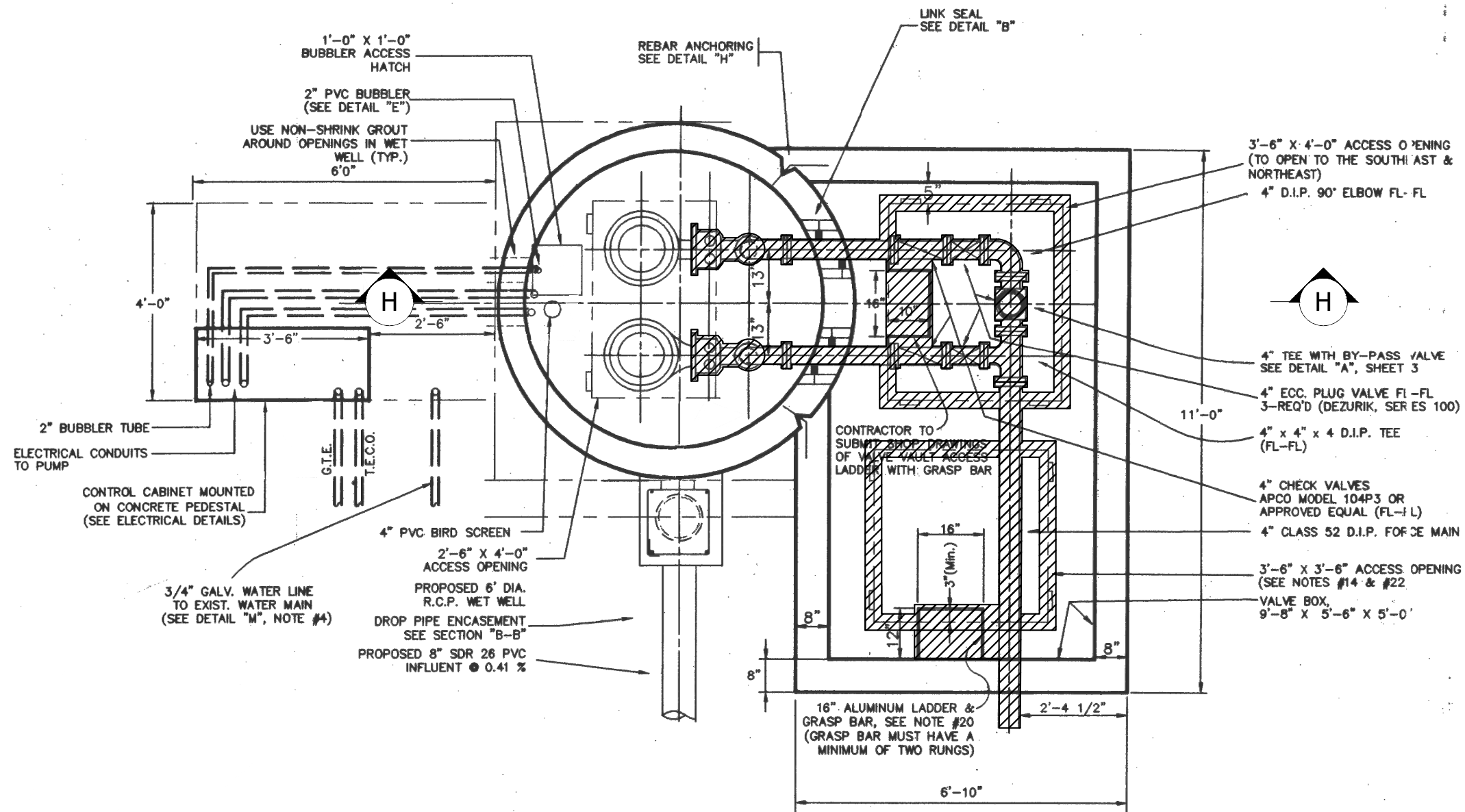
ARBOR CREEK PS
N.T.S.



BYPASS ASSEMBLY DETAIL G-G
N.T.S.

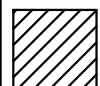
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS ARBOR CREEK PS EXISTING SITE AND BYPASS PLAN	SHEET
	3			DRN: GH			15
	2			CKD:			
	1			DATE:			

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Layout: SHT 16; Last Saved: Jul 21, 2026 - 9:43am



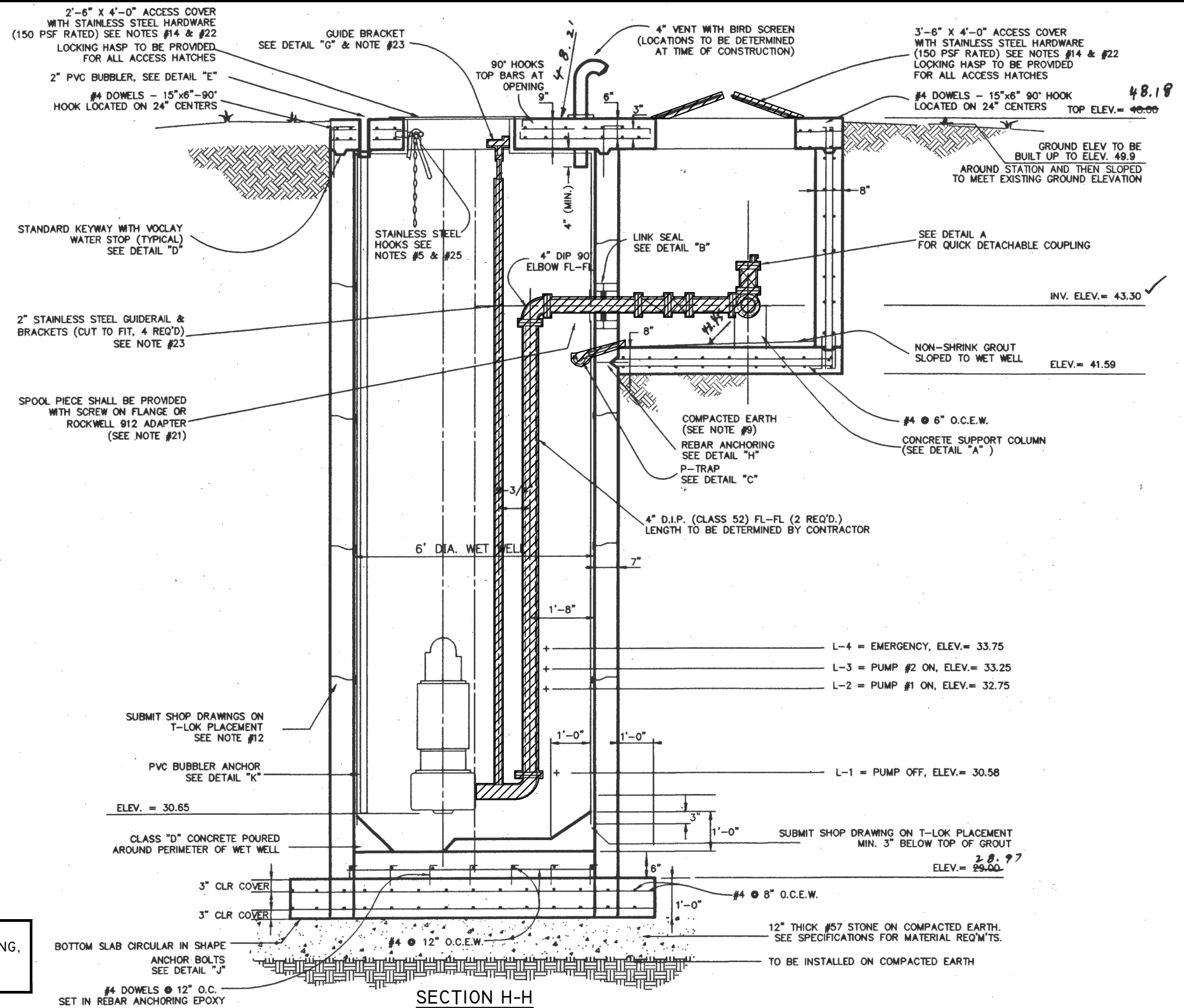
EXISTING/DEMO PLAN VIEW

SCALE : 1/4" = 1'



HATCHED AREAS ON THIS SHEET INDICATE PIPING, FITTINGS AND VALVES TO BE REMOVED

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS ARBOR CREEK PS EXISTING/DEMO PLAN WITH SECTION	SHEET
	3						
	2						
	1						
							16



SECTION H-H

SCALE: 1/4" = 1'

No.	DATE	REVISIONS
3		
2		
1		

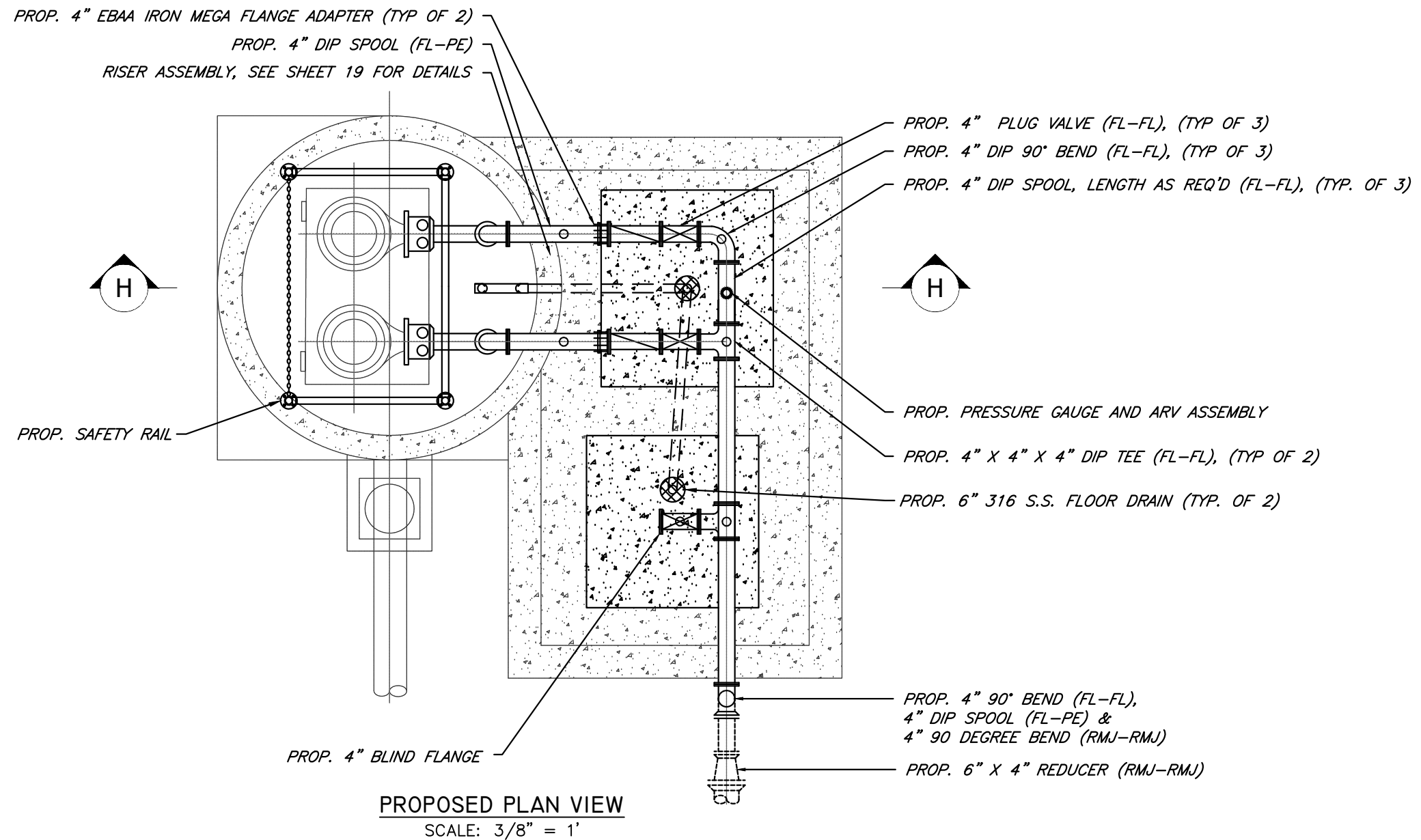
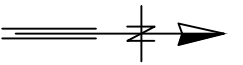
DES: VT
DRN: GH
CKD:
DATE:

CITY of TAMPA
WASTEWATER DEPARTMENT

FY26 MISCELLANEOUS PS RISER REPLACEMENTS
ARBOR CREEK PS
EXISTING/DEMO SECTION PLAN

SHEET

17

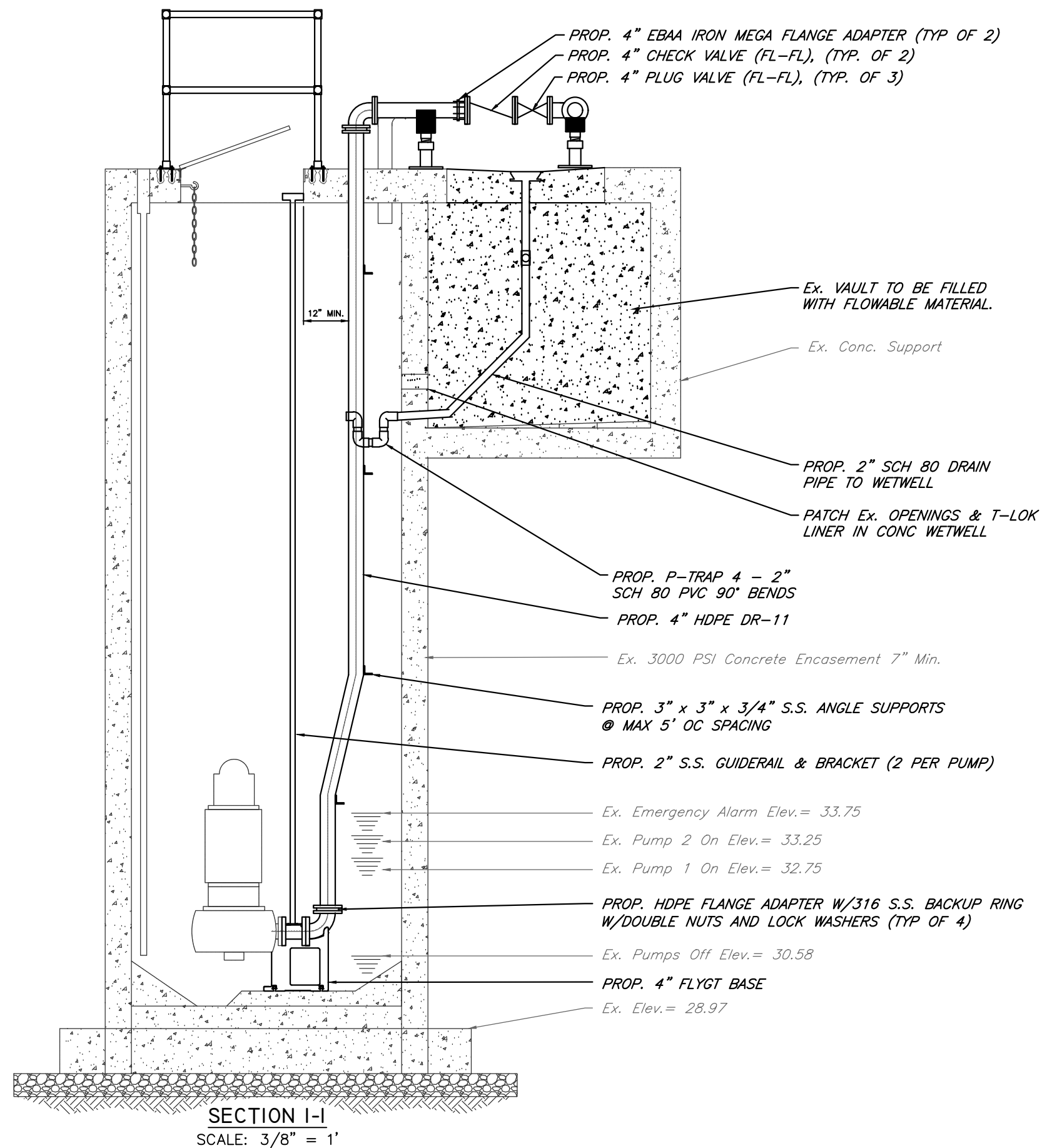


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Layout: SHT 18; Last Saved: Jul 21, 2026 - 9:43am

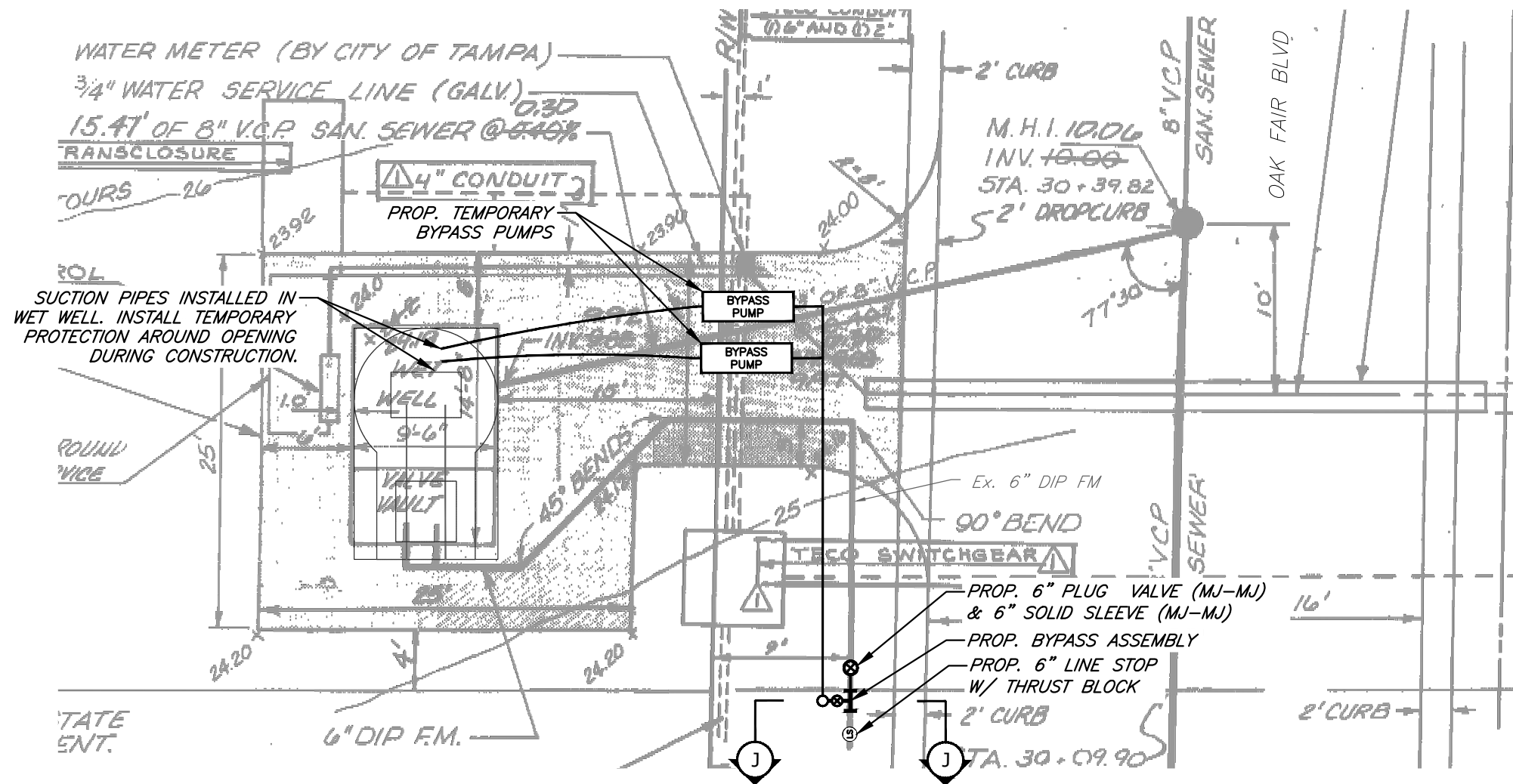
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS ARBOR CREEK PS PROPOSED PLAN VIEW	SHEET
	3			DRN: GH			18
	2			CKD:			
	1			DATE:			

[illegible]

- MOUNTING PLATE DETAIL
- SCALE: N.T.S.



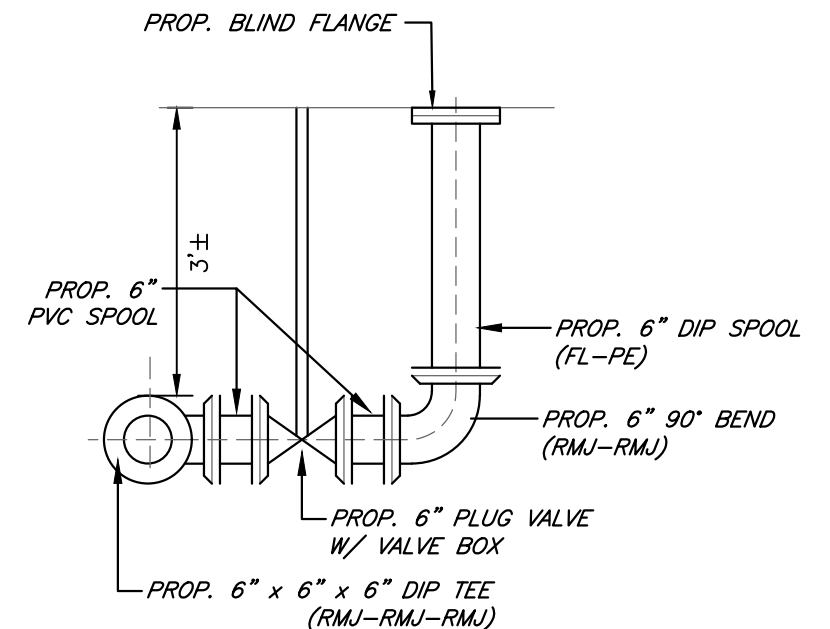
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS ARBOR CREEK PS PROPOSED SECTION PLAN	SHEET
	3			DRN: GH			19
	2			CKD:			
	1			DATE:			



EXISTING SITE AND BYPASS PLAN
SCALE : N.T.S.



INTERSTATE BUSINESS PARK PS
N.T.S.

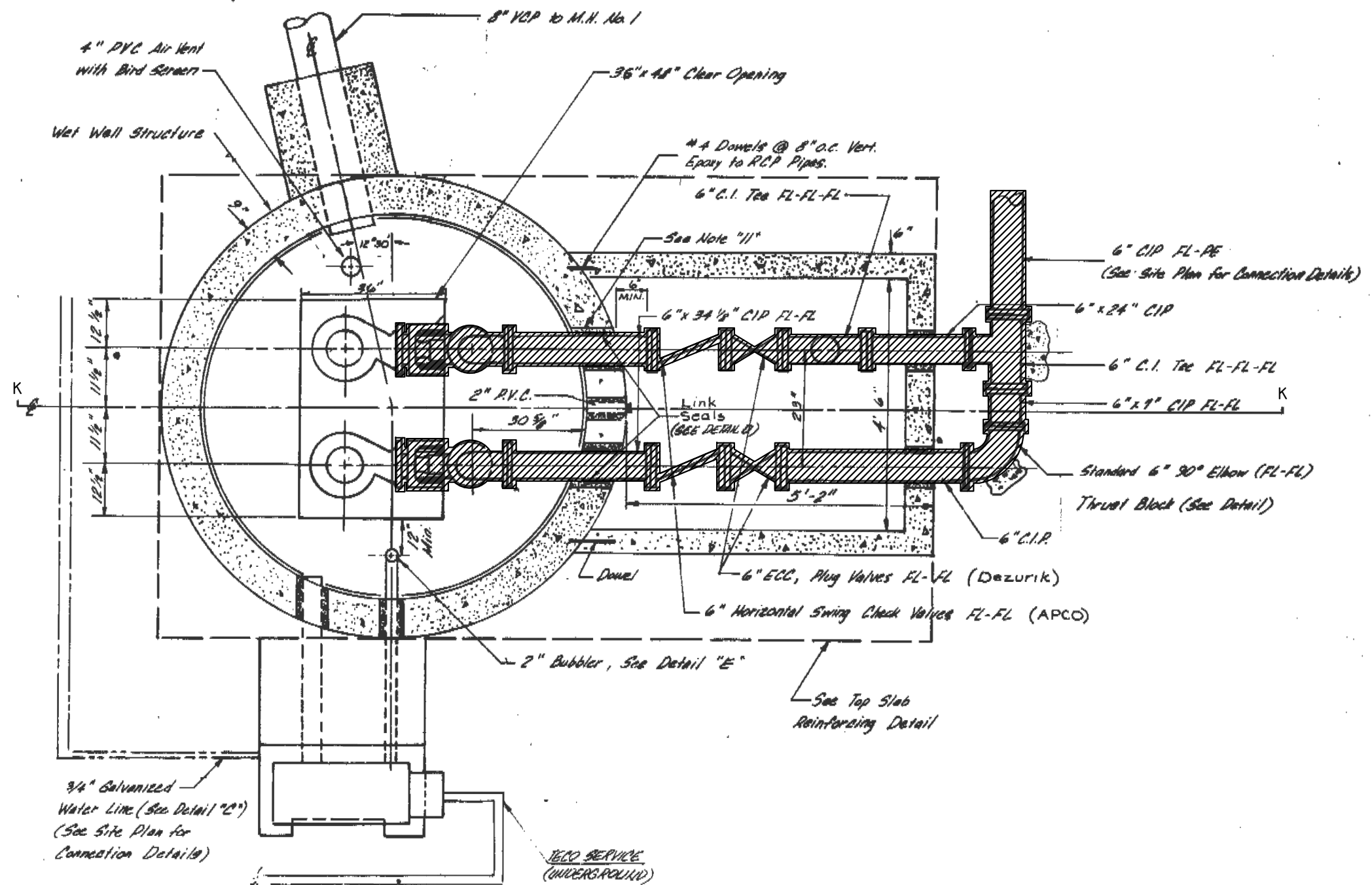


BYPASS ASSEMBLY DETAIL J-J
N.T.S.

User: ssvt Drawing Name: C:\Users\ssvt\AppData\Local\Temp\FY26 Miscellaneous PS Riser Replacements.dwg
Layout: SHT 20; Last Saved: Jul 21, 2026 - 9:43am

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS INTERSTATE BUSINESS PARK PS EXISTING SITE AND BYPASS PLAN	SHEET
	3						20
	2						
	1						

User: ssvt Drawing Name: C:\Users\ssvt\AppData\Local\Temp\AcPublish_1976\FY26 Miscellaneous PS Riser Replacements.dwg
Layout: SHT 21; Last Saved: Jul 21, 2026 - 9:43am



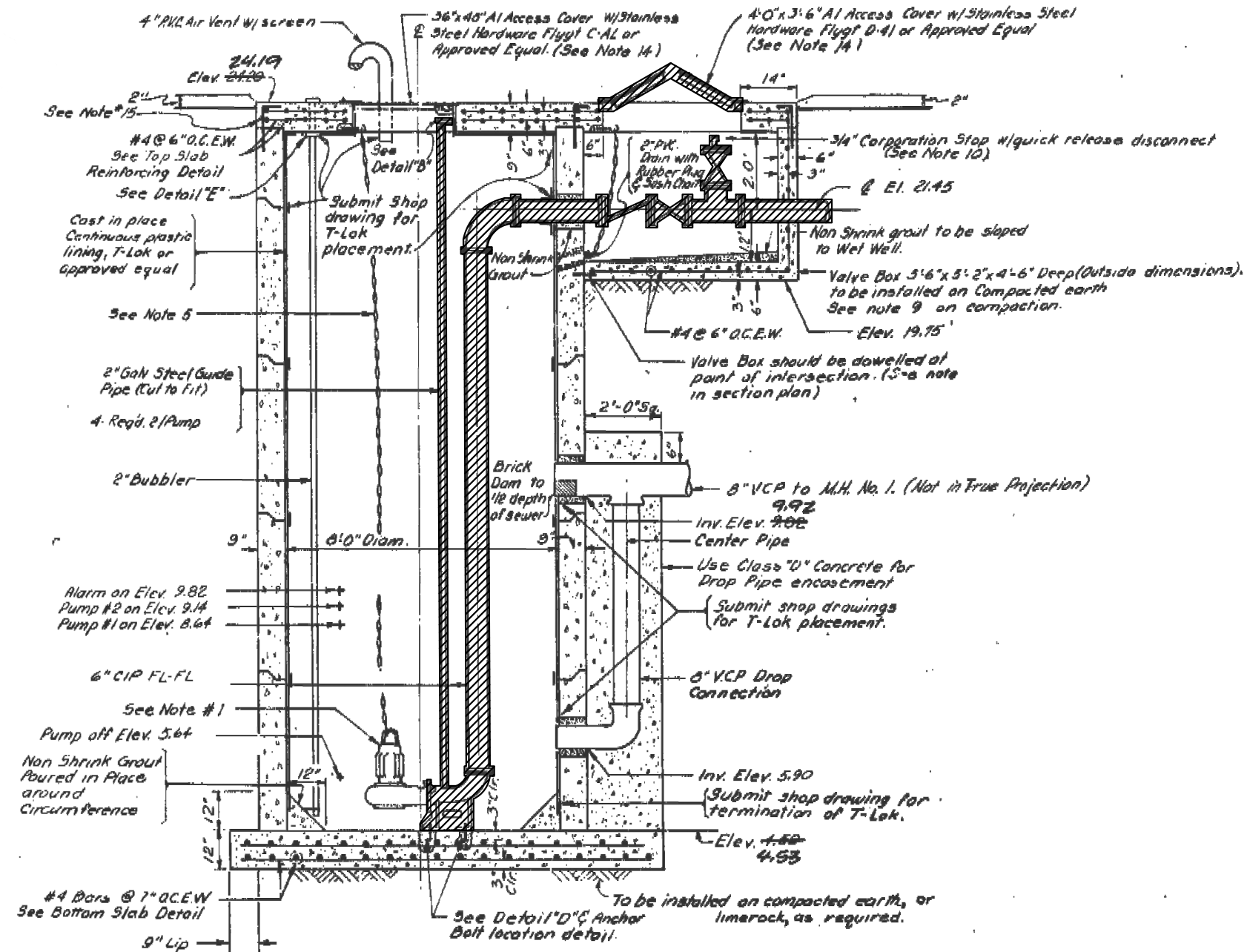
EXISTING/DEMO PLAN VIEW
SCALE : 1/4" = 1'



HATCHED AREAS ON THIS SHEET INDICATE PIPING,
FITTINGS AND VALVES TO BE REMOVED

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS INTERSTATE BUSINESS PARK PS EXISTING/DEMO PLAN WITH SECTION	SHEET 21
	3						
	2						
	1						

User: ssvt Drawing Name: C:\Users\ssvt\AppData\Local\Temp\AcPublish_1976\FY26 Miscellaneous PS Riser Replacements.dwg
Layout: SHT 22; Last Saved: Jul 21, 2026 - 9:43am



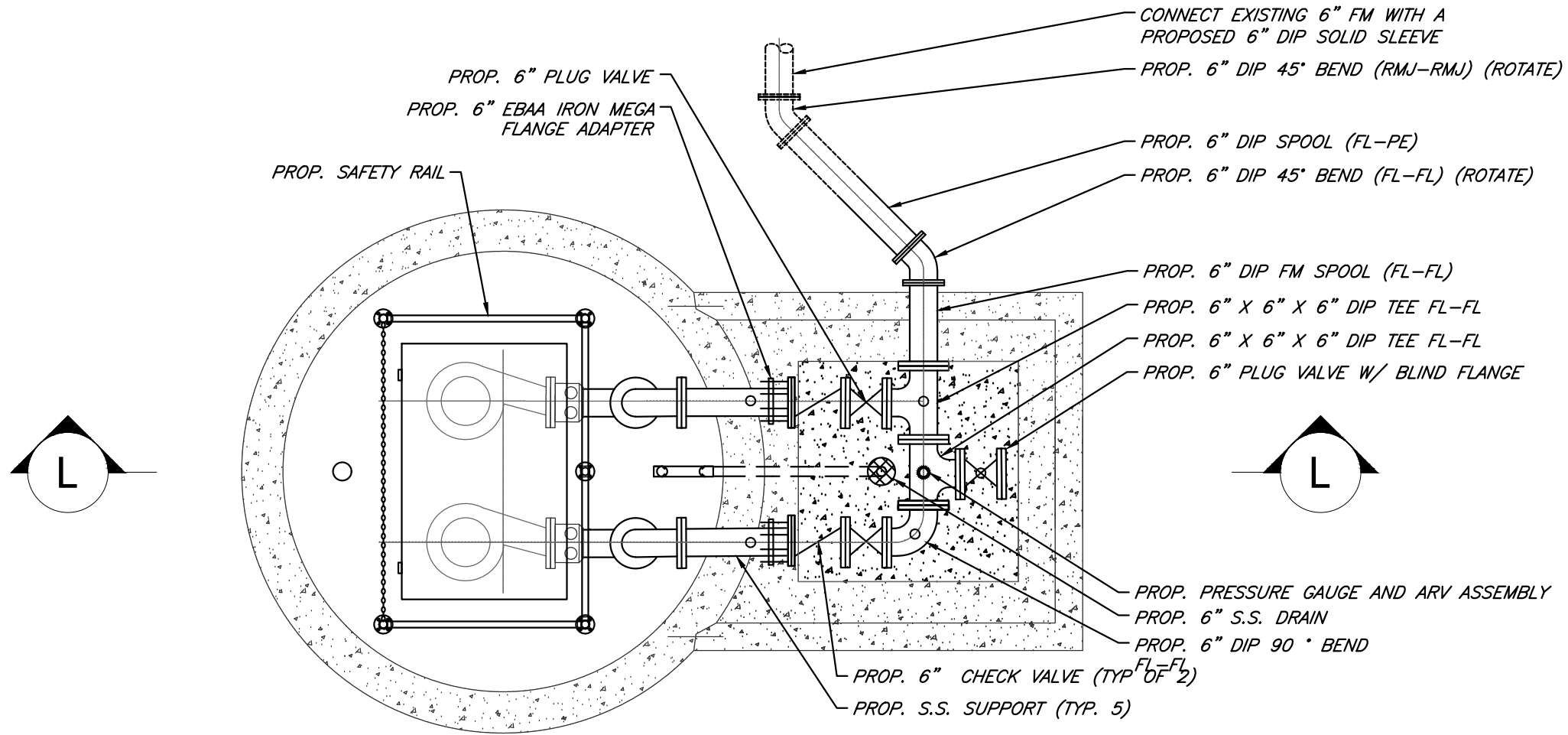
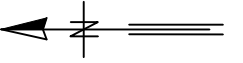
SECTION K-K
SCALE: 1/4" = 1'



HATCHED AREAS ON THIS SHEET INDICATE PIPING,
FITTINGS AND VALVES TO BE REMOVED

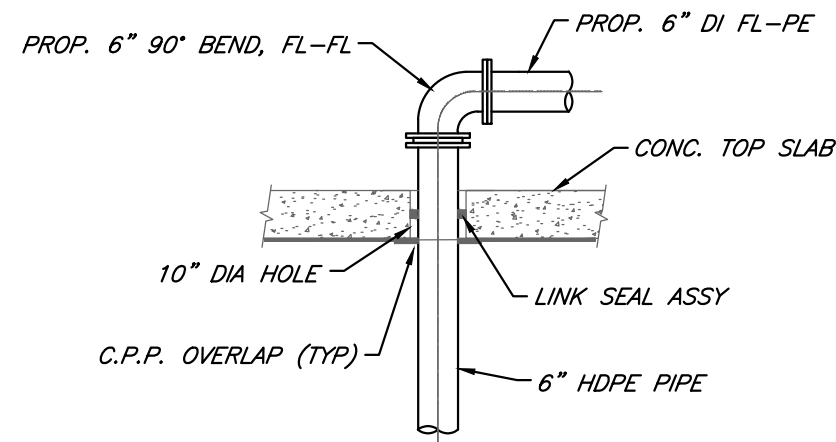
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS INTERSTATE BUSINESS PARK PS EXISTING/DEMO SECTION PLAN	SHEET 22
	3						
	2						
	1						

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Layout: SHT 23; Last Saved: Jul 21, 2026 - 9:43am



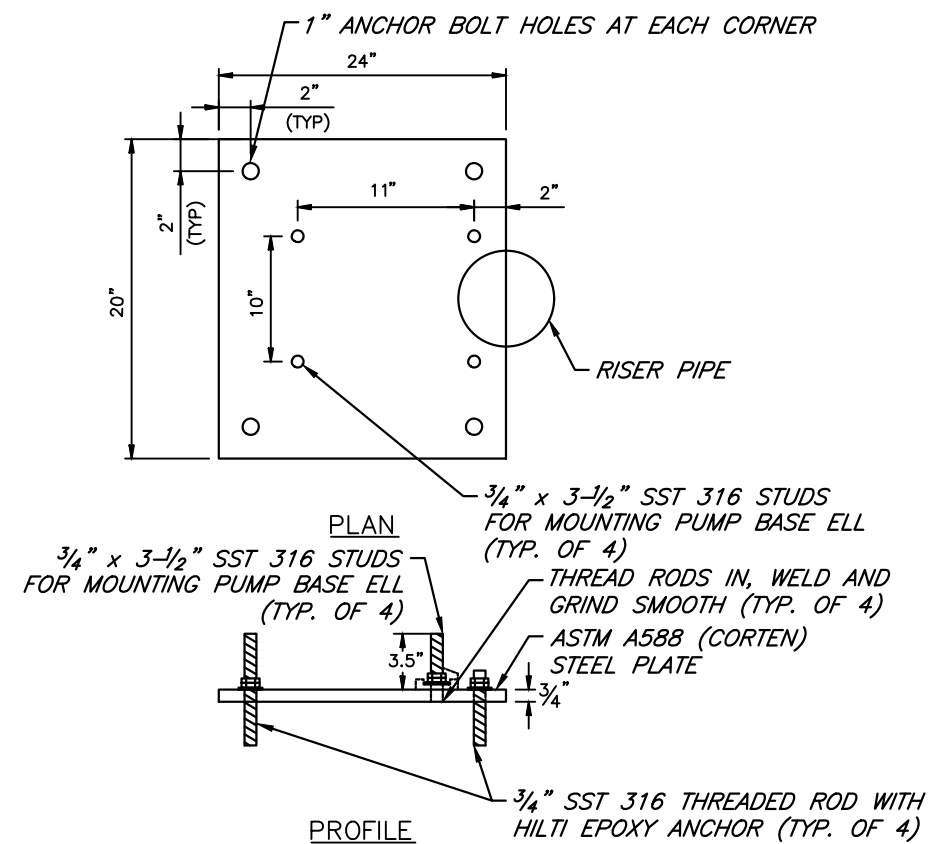
PROPOSED PLAN VIEW
SCALE : 1/4" = 1'

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS INTERSTATE BUSINESS PARK PS PROPOSED PLAN VIEW	SHEET
	3			DRN: GH			23
	2			CKD:			
	1			DATE:			



PIPE PENETRATION DETAIL

SCALE : N.T.S.

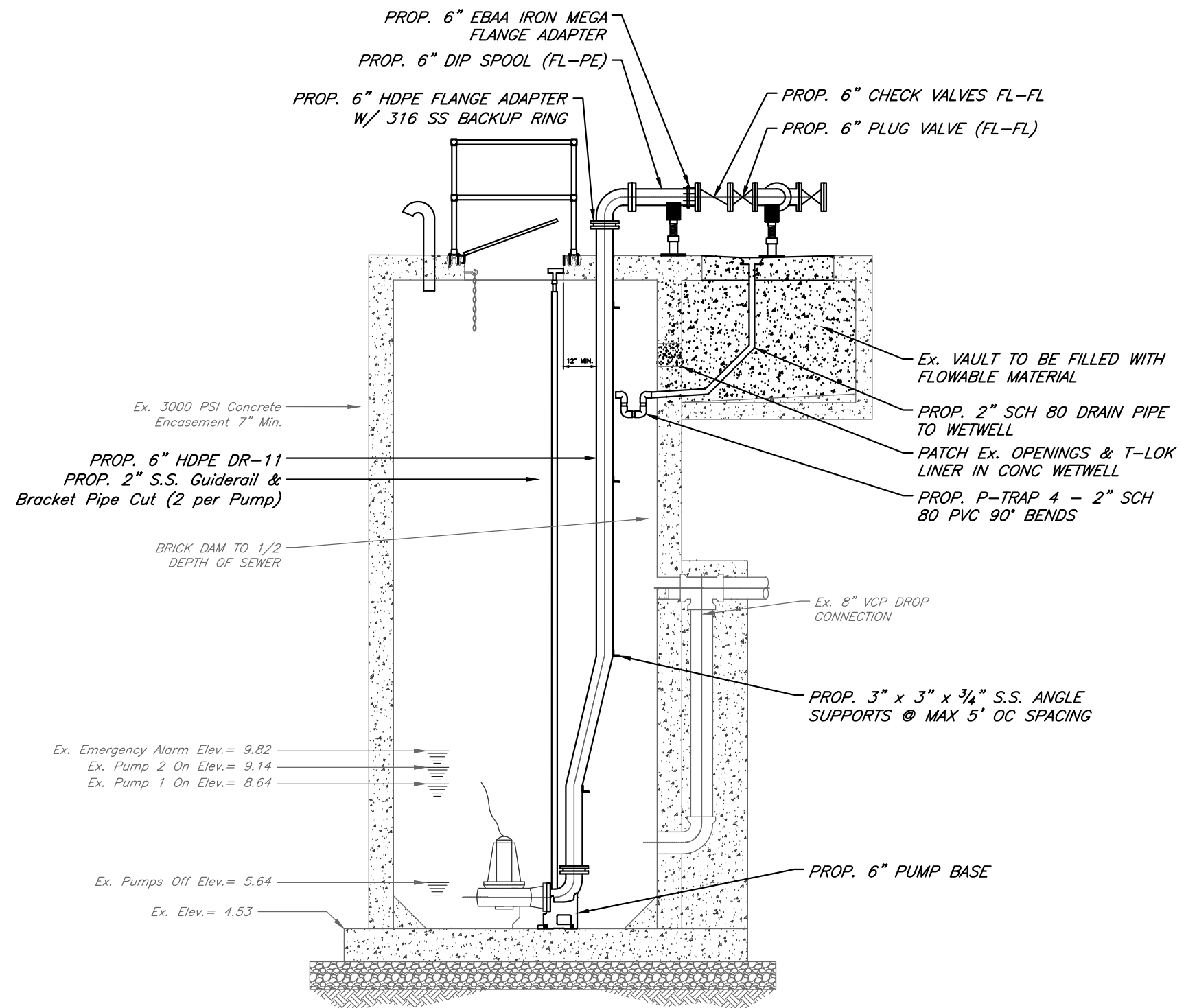


- NOTES:

1. INSTALL DOUBLE NUTS ON ALL EIGHT (8) THREADED RODS. ALL NUTS INSIDE WETWELL SHALL BE 316 SST NYLOC TYPE LOCKING NUTS.
2. THE PLATE EDGES AND ALL HOLES SHALL BE GROUND SMOOTH TO REMOVE ALL BURRS.
3. ALIGNMENT OF ANCHOR BOLTS SHALL BE AS RECOMMENDED BY PUMP MANUFACTURER.

MOUNTING PLATE DETAIL

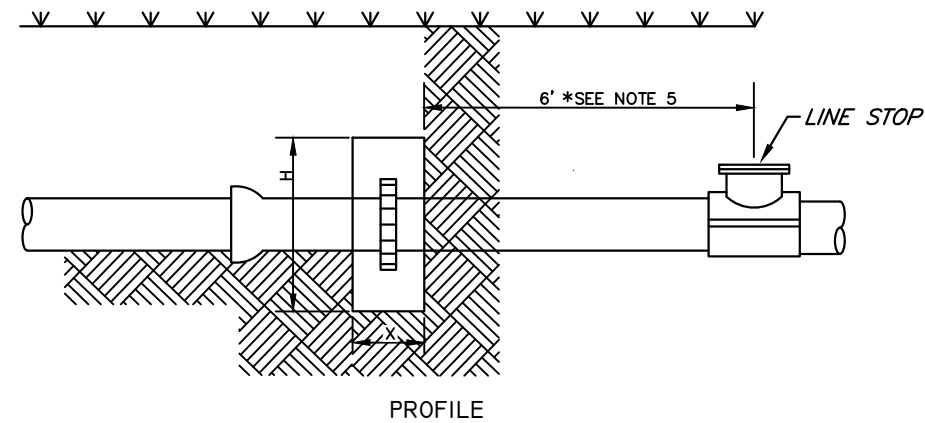
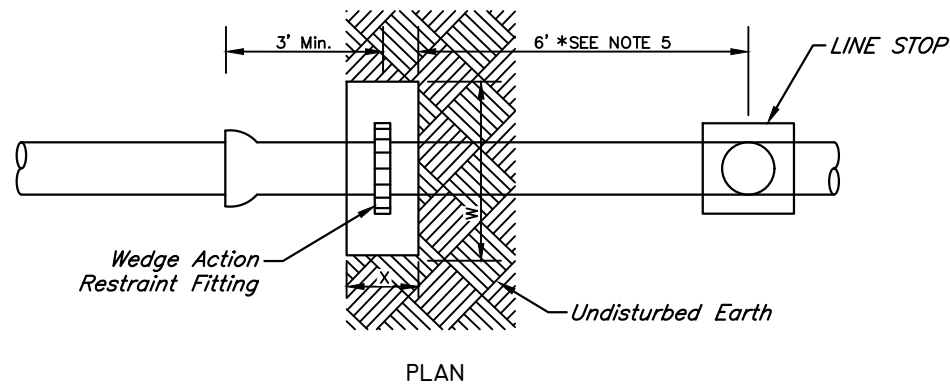
SCALE : N.T.S.



SECTION L-L

SCALE : 1/4" = 1'

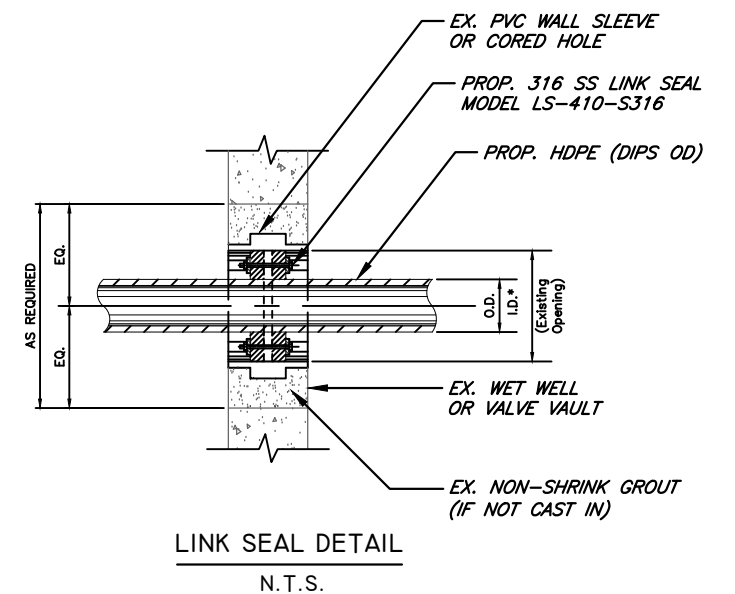
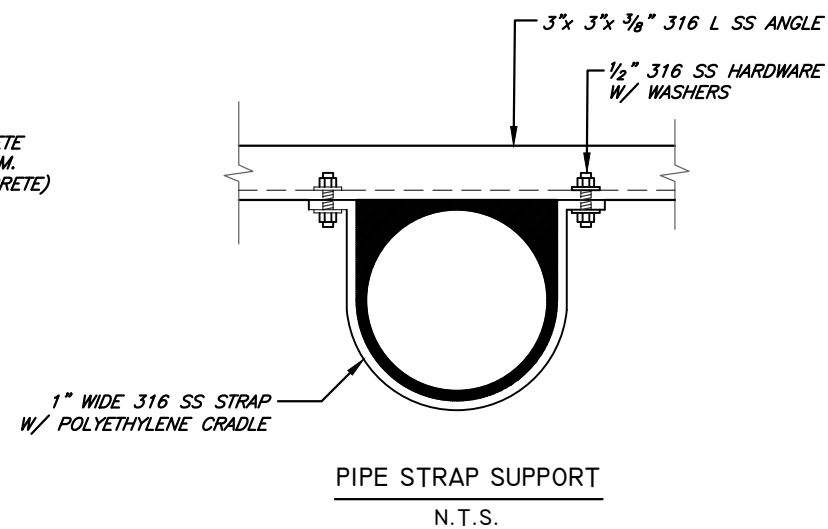
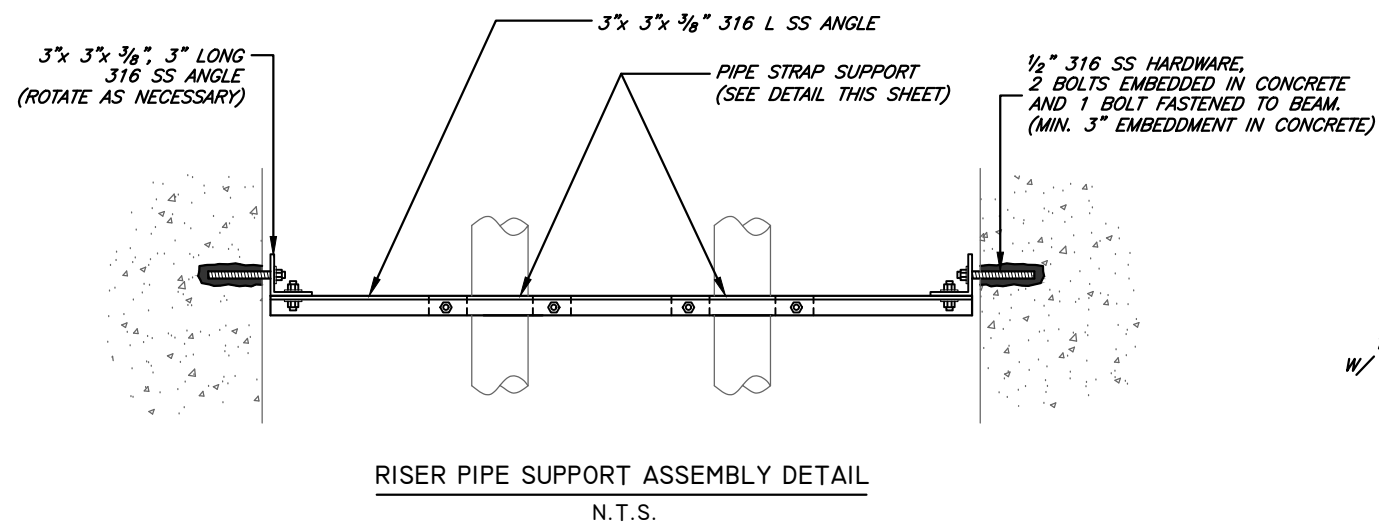
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS INTERSTATE BUSINESS PARK PS PROPOSED SECTION PLAN	SHEET
	3			DRN: GH			24
	2			CKD:			
	1			DATE:			



PIPE SIZE	4"	6"	8"
H (FT.)	3.0	3.5	4.5
W (FT.)	2.0	3.0	4.0
X (FT.)	2.0 Min.	2.0 Min.	2.0 Min.

- NOTES:
1. CONCRETE SHALL BE KEPT AT SUFFICIENT DISTANCE FROM JOINT FOR REMOVAL OF ALL JOINT ACCESSORIES INCLUDING BOLTS.
 2. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
 3. POOR AND WET SOIL (SILTY SOILS, CLAY, MUCK AND PEAT) WILL REQUIRE LARGER THRUST BLOCKS, AS DIRECTED BY THE ENGINEER.
 4. FITTINGS SHALL BE COMPLETELY POLYWRAPPED PRIOR TO POURING THRUST BLOCKS.
 - *5. CLOSEST DISTANCE TO LINE STOP FOR DEADMAN TO REMAIN EFFECTIVE.
 6. DESIGN IS BASED ON AN INTERNAL PRESSURE OF 100 PSI. DEADMAN IS SIZED BASED ON PASSIVE SOIL RESISTANCE AND OIL FRICTION.

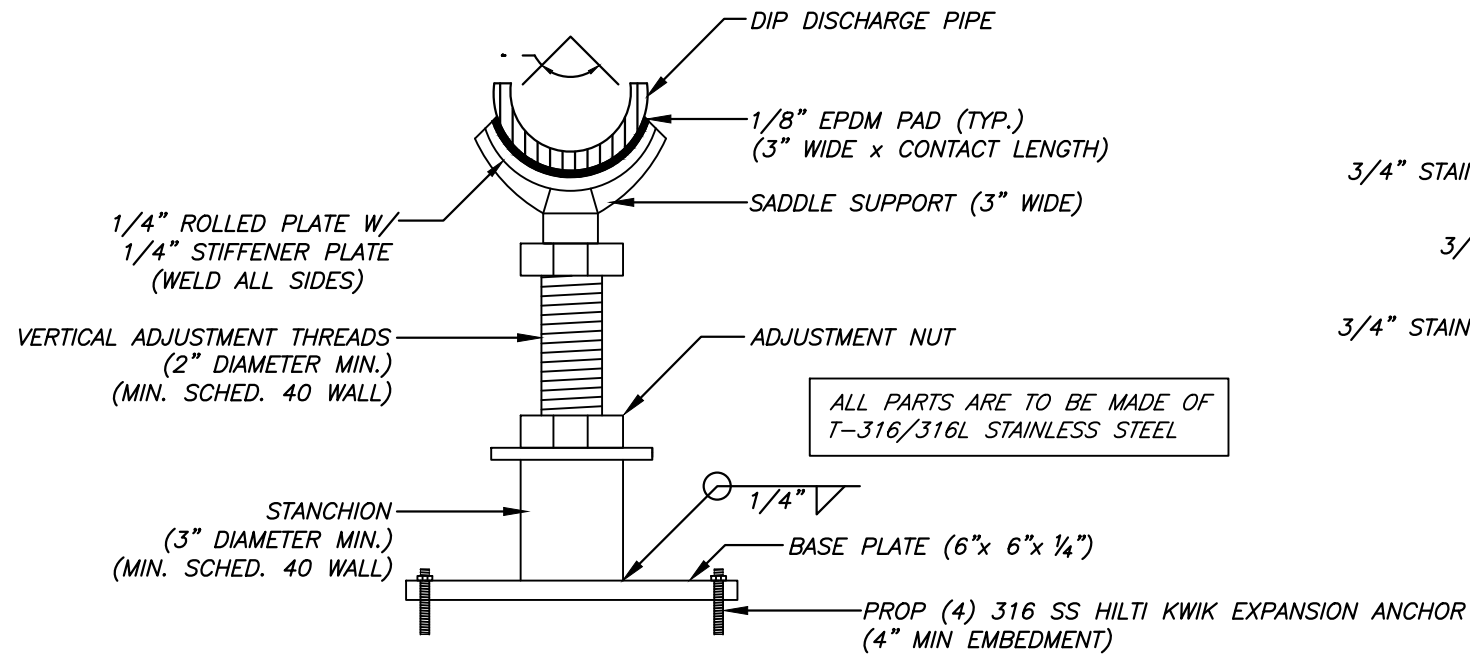
DEAD MAN THRUST BLOCK DETAIL
NOT TO SCALE



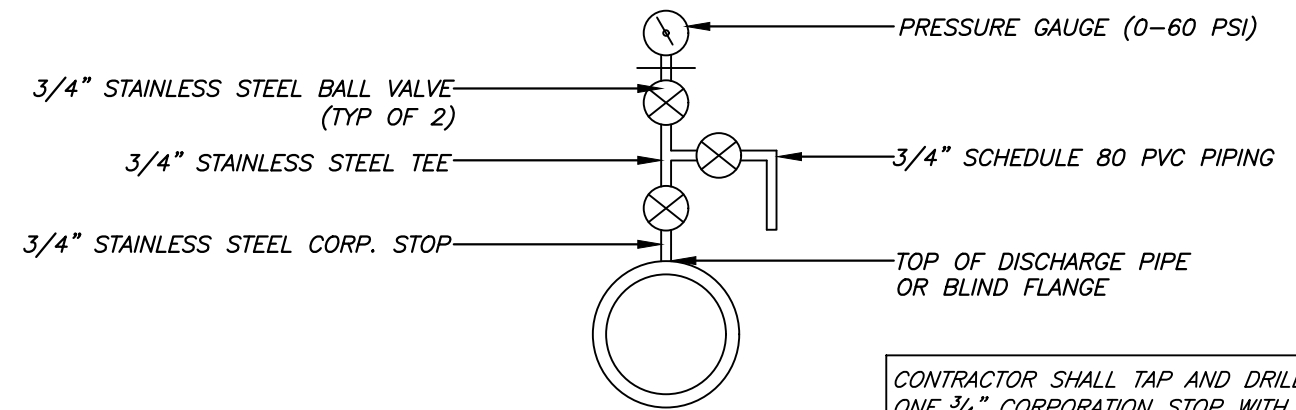
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Layout: SHT 25; Last Saved: Jul 21, 2026 - 9:43am

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS MISCELLANEOUS DETAILS I	SHEET
	3			DRN: GH			25
	2			CKD:			
				DATE:			
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User: ssvt Drawing Name: C:\Users\ssvt\AppData\Local\Temp\AcPublish_1976\FY26 Miscellaneous PS Riser Replacements.dwg
Layout: SHT 26; Last Saved: Jul 21, 2026 - 9:43am



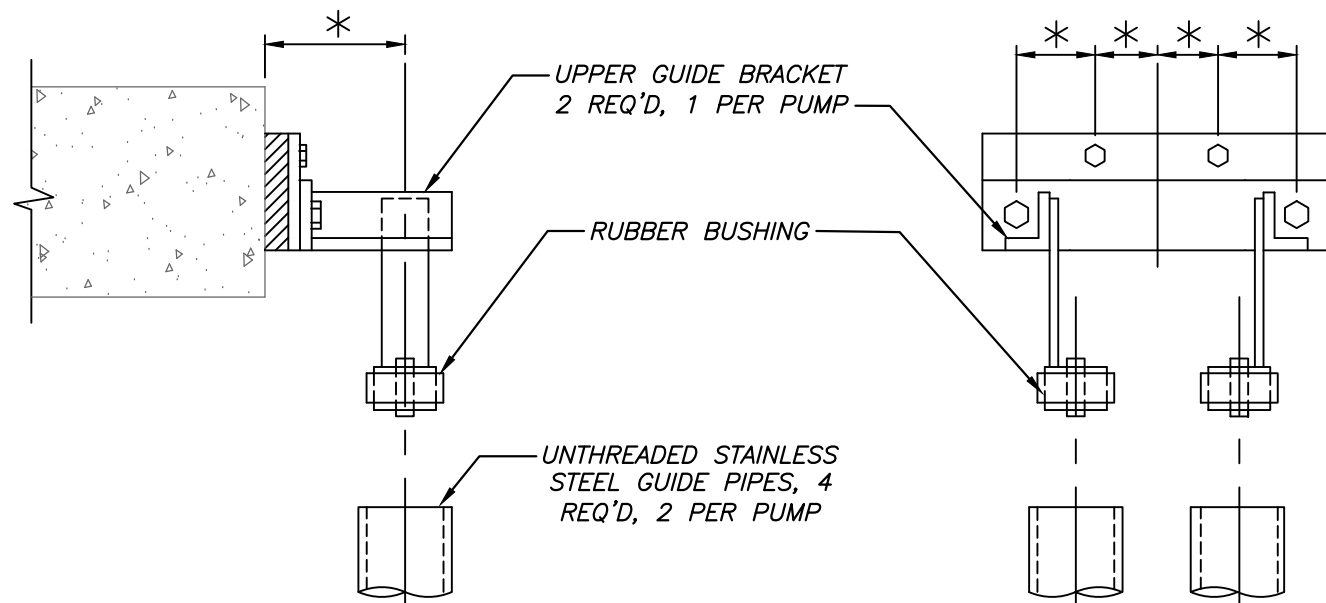
SECTION VIEW - STAINLESS STEEL STANCHION SADDLE SUPPORT
N.T.S.



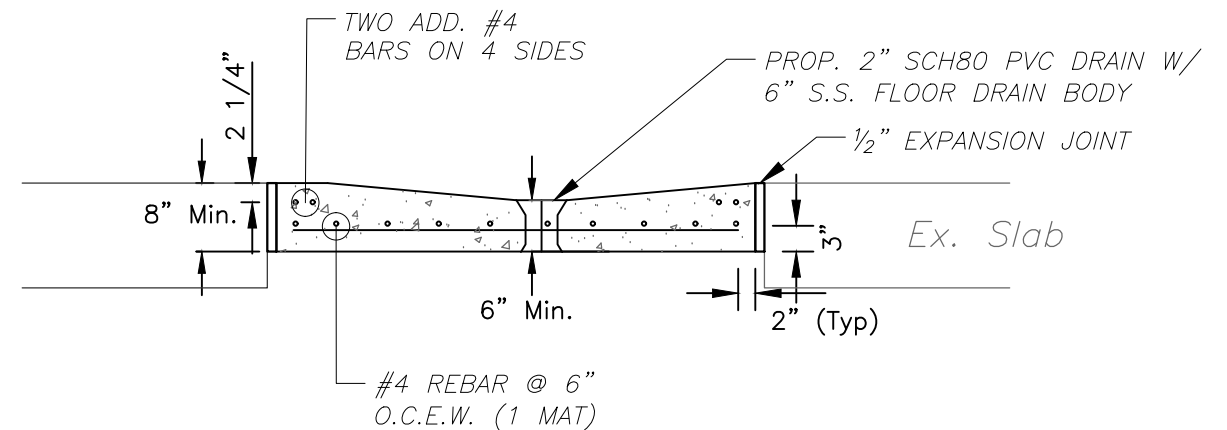
CONTRACTOR SHALL TAP AND DRILL ONE 3/4" CORPORATION STOP WITH AIR RELEASE VALVE AND PRESSURE GAUGE ASSEMBLY. PVC PIPE AND FITTINGS (SCH80) SHALL BE PROVIDED TO DIRECT FLOW FROM THE BALL VALVE DOWNWARD TO THE FLOOR.

AIR RELEASE AND PRESSURE GAUGE
N.T.S.

* PER PUMP MANUFACTURER'S RECOMMENDATION

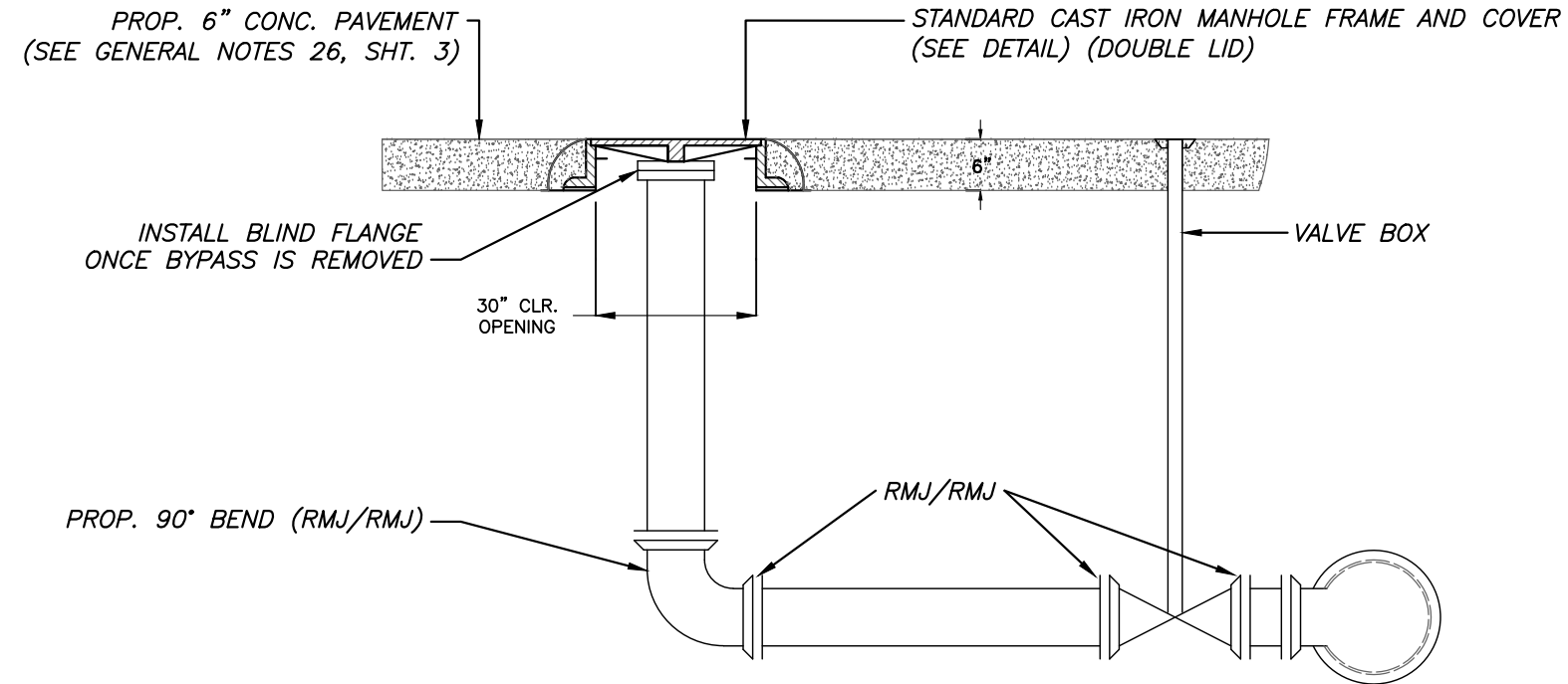


GUIDE BRACKET DETAIL
N.T.S.



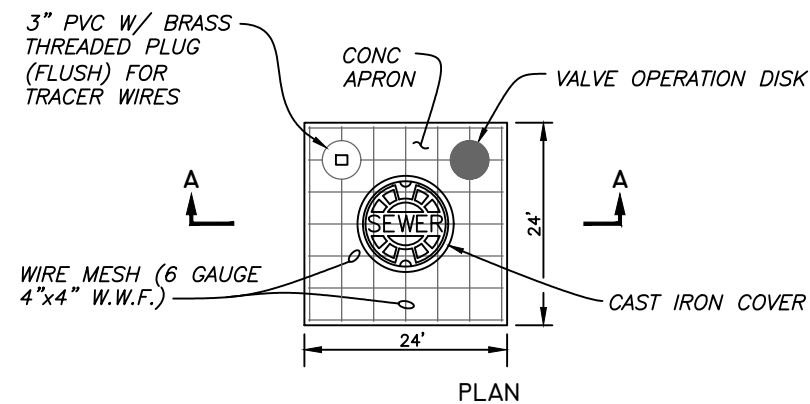
CONCRETE SLAB DETAILS
N.T.S.

JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS MISCELLANEOUS DETAILS 2	SHEET
	3						26
	2						
	1						

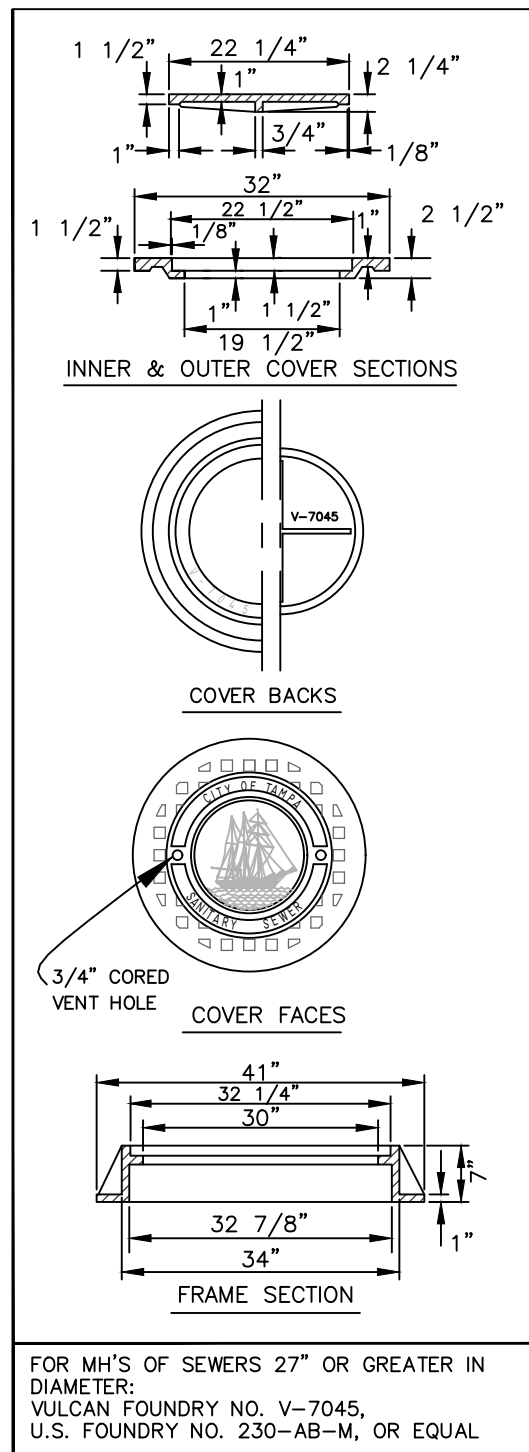
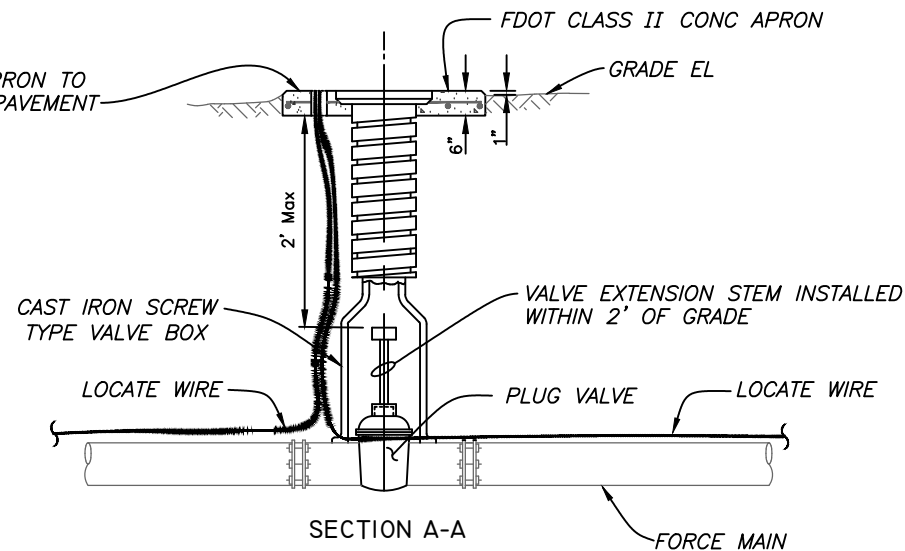


BYPASS CONNECTION IN CONCRETE DETAIL

SECTION VIEW
N.T.S.



VALVE BOX DETAIL
NOT TO SCALE

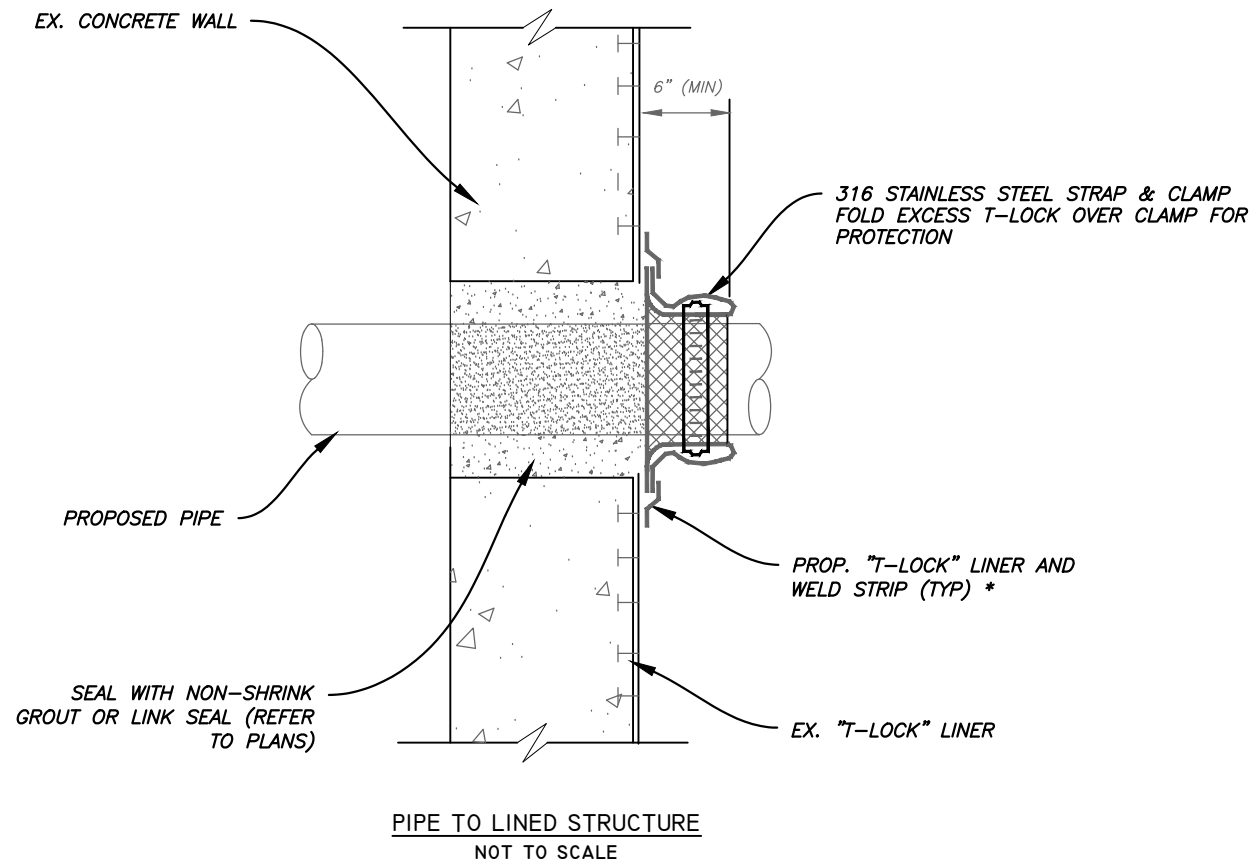
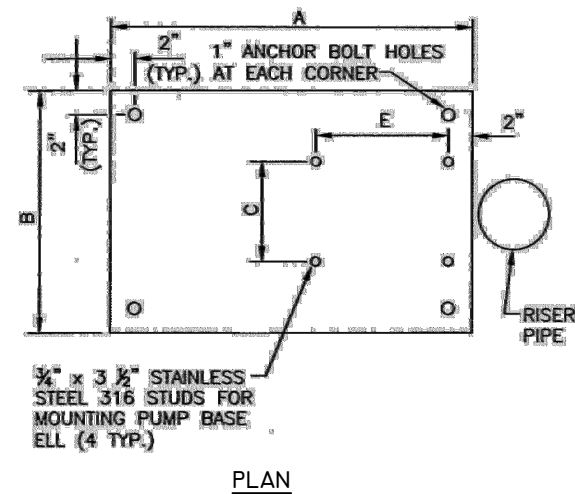
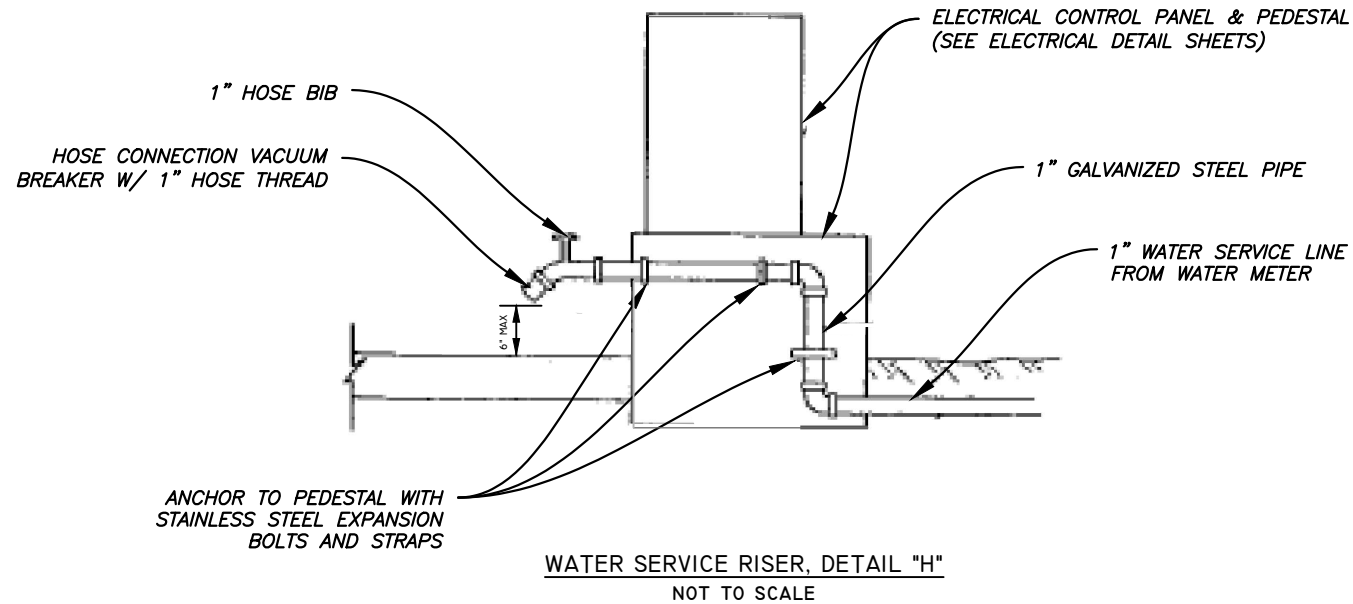


HEAVY DUTY CAST IRON MANHOLE
FRAME & COVER DETAILS
N.T.S.

User: ssvt Drawing Name: C:\Users\ssvt\AppData\Local\Temp\AcPublish_1976\FY26 Miscellaneous PS Riser Replacements.dwg Layout: SHT 27; Last Saved: Jul 21, 2026 - 9:43am

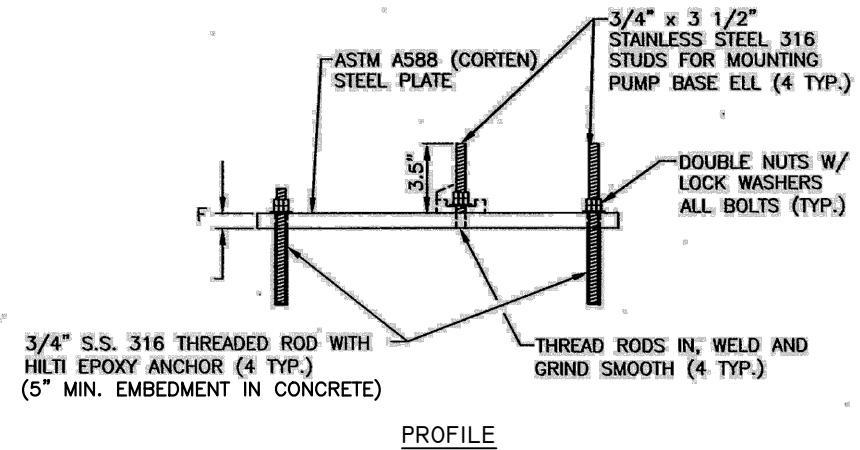
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS MISCELLANEOUS DETAILS 3	SHEET
	3			DRN: GH			
	2			CKD:			
	1			DATE:			
							27

User: ssvt Drawing Name: C:\Users\ssvt\AppData\Local\Temp\AcPublish_1976\FY26 Miscellaneous PS Riser Replacements.dwg Layout: SHT 28; Last Saved: Jul 21, 2026 - 9:43am



NOTE:

IN LIEU OF SPECIFIED T-LOCK LINING AND WELD, CONTRACTOR MAY APPLY 250 MILS OF CONCRETE POLYMER PASTE (CPP) WITH A MIN 3" OVERLAP OF EXISTING PVC LINER. EXISTING PVC LINER SHALL BE PREPARED (ROUGHENED AND GROOVED) AS RECOMMENDED BY MANUFACTURER.



PUMP BASE ELL MOUNTING PLATE DIMENSIONS							
DIMENSIONS	A	B	C	D	E	F	
FOR 6" PUMPS	24"	20"	*		*	3/4"	
FOR 4" PUMPS	24"	20"	*		*	3/4"	

NOTES:

1. INSTALL DOUBLE NUTS ON ALL EIGHT (8) THREAD RODS.
 2. THE PLATE EDGES AND ALL HOLES SHALL BE GROUND SMOOTH TO REMOVE ALL BURRS.
- * ALIGNMENT OF ANCHOR BOLTS SHALL BE RECOMMENDED BY PUMP MANUFACTURER

PUMP BASE MOUNTING PLATE DETAIL
NOT TO SCALE

JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

No.	DATE	REVISIONS
3		
2		
1		

DES: VT
DRN: GH
CKD:
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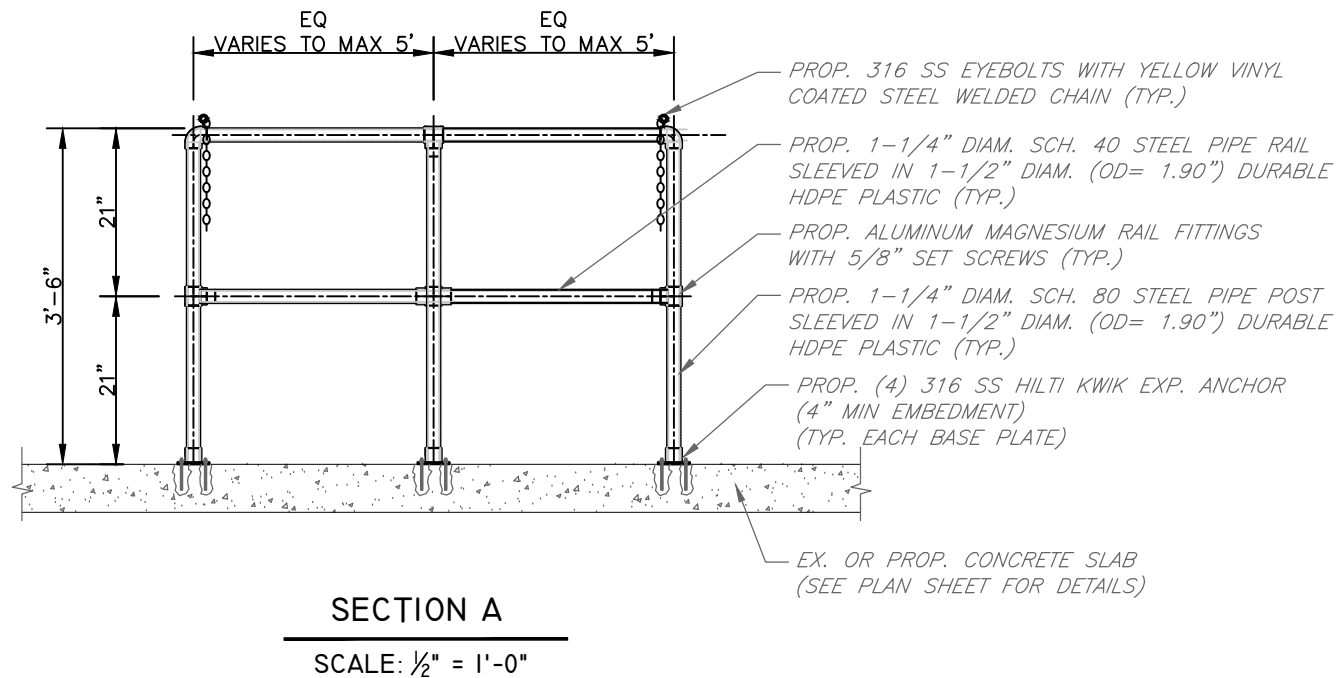
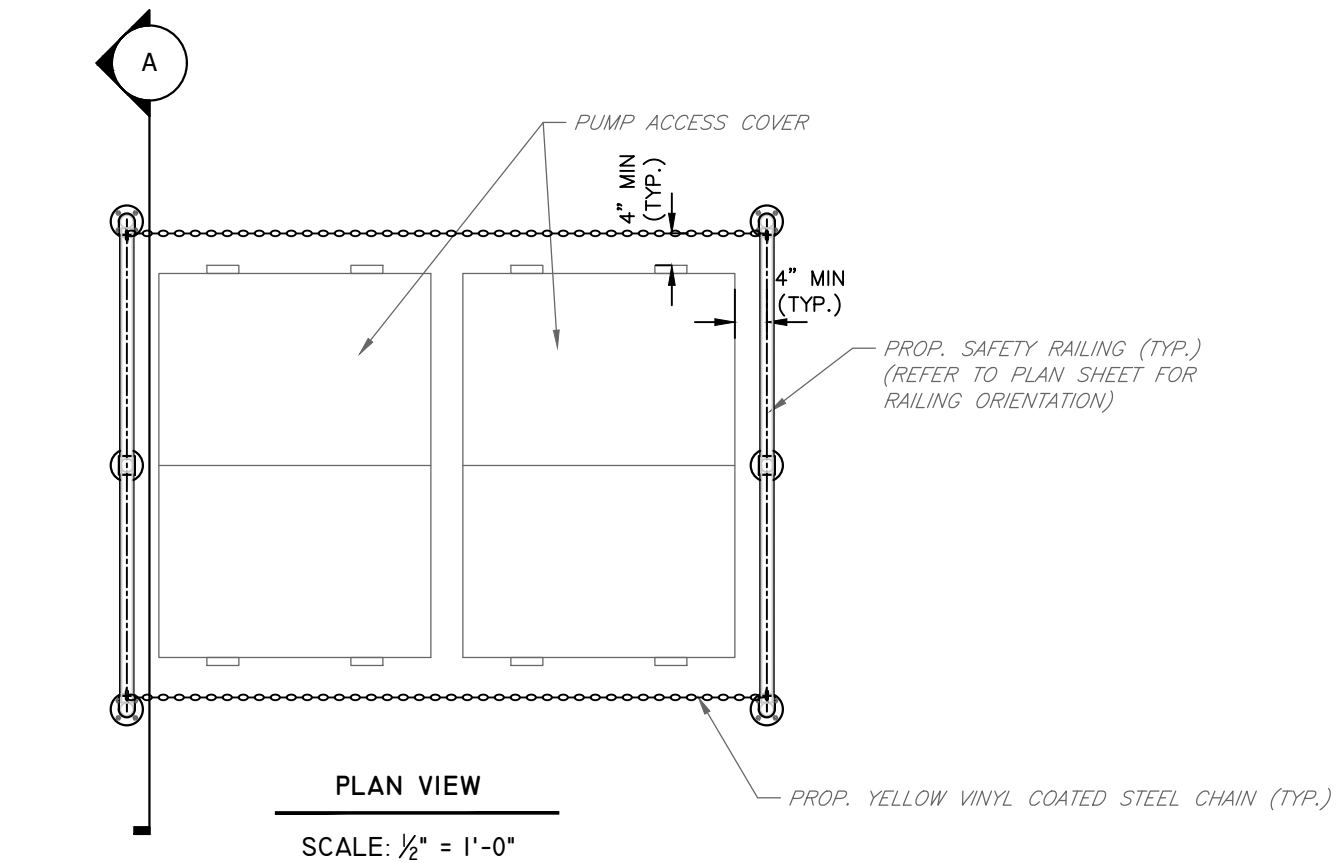
CITY of TAMPA
WASTEWATER DEPARTMENT

FY26 MISCELLANEOUS PS RISER REPLACEMENTS
MISCELLANEOUS DETAILS 4

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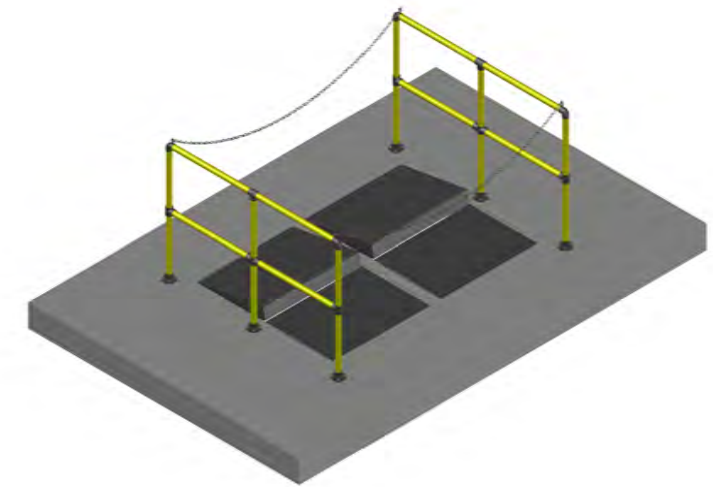
28

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NOTES:

1. SAFETY RAILS AND PARTS SHALL BE STANDARD YELLOW, ULTRAVIOLET RESISTANT AND MANUFACTURED BY IDEAL SHIELD OR APPROVED EQUAL.
2. SAFETY CHAINS SHALL BE $\frac{1}{4}"$ DIAMETER WELDED YELLOW, ULTRAVIOLET RESISTANT, VINYL COATED STEEL WITH WORKING LOAD LIMIT OF 1,300 LBS WITH TWO 316 SS SPRING LOADED END SNAPHOOKS.

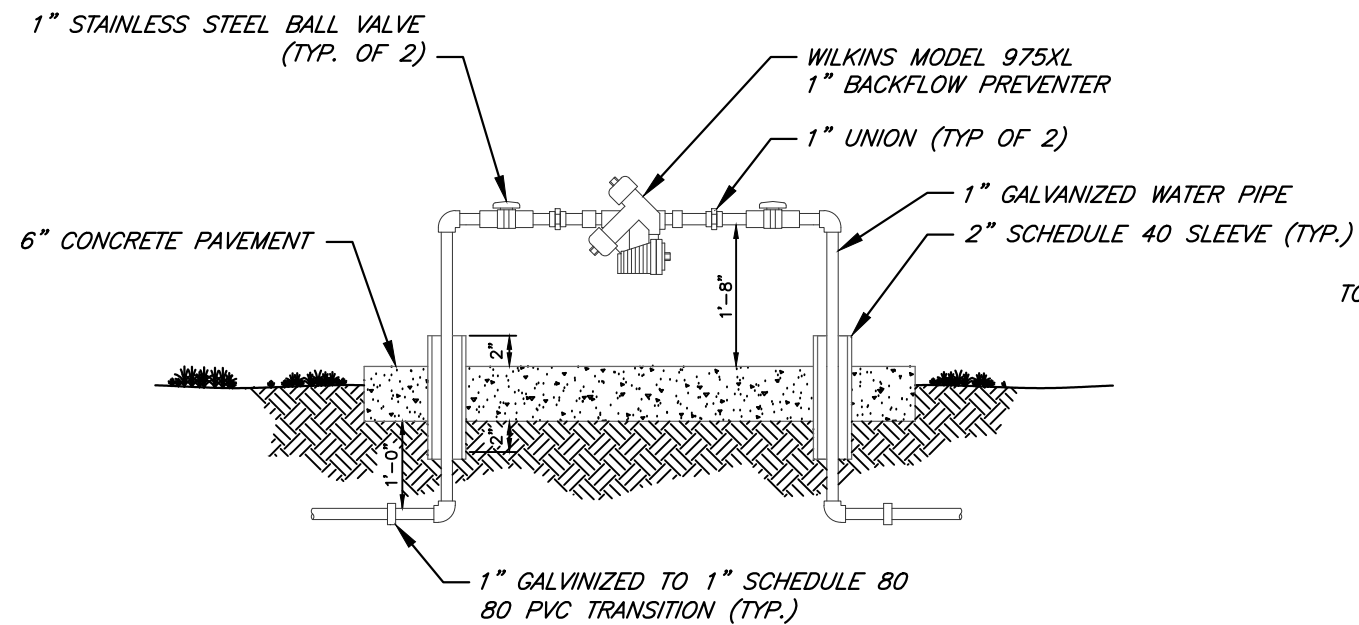


ISO VIEW

SCALE: N.T.S.

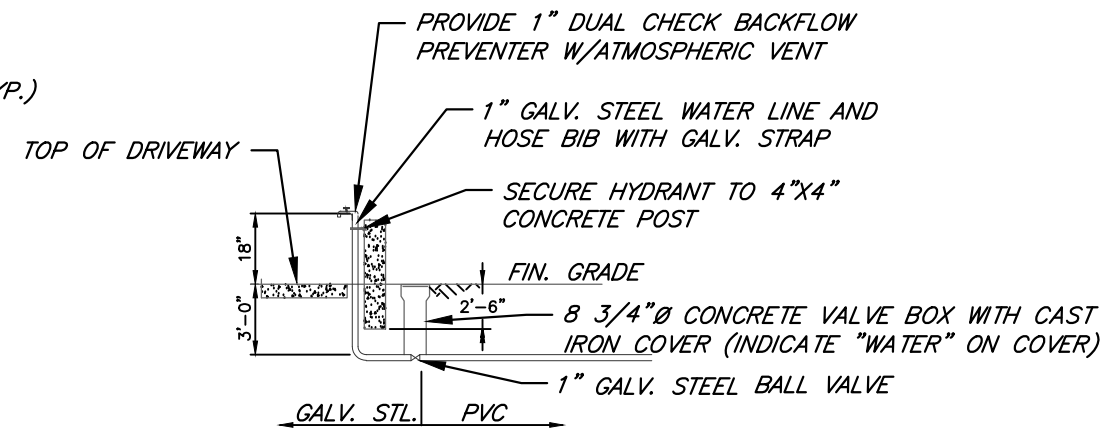
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS MISCELLANEOUS DETAILS 5	SHEET
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BACKFLOW PREVENTER

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WASTEWATER DEPARTMENT

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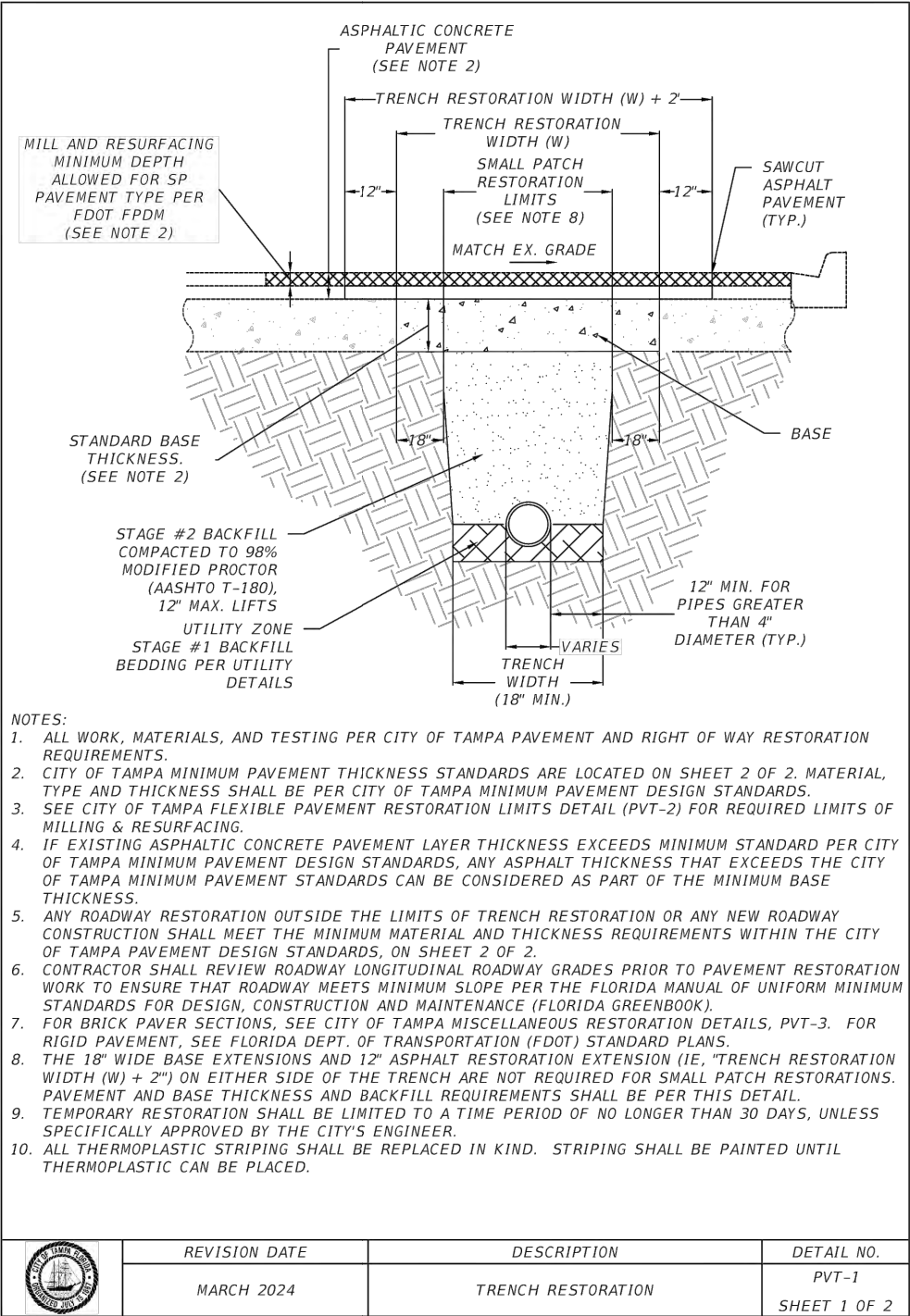
CITY of TAMPA
WASTEWATER DEPARTMENT

FY26 MISCELLANEOUS PS RISER REPLACEMENTS
POTABLE WATER DETAILS

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PAVEMENT DESIGN MINIMUM STANDARDS			
ROADWAY CLASSIFICATION	FLEXIBLE PAVEMENT		
	ASPHALTIC CONCRETE	BASE MATERIAL	TYPE B STABILIZATION (MIN LBR 40)
ALLEY	1"	6"	12"
LOCAL	2"	8"	12"
NEIGHBORHOOD COLLECTOR	3"	8"	12"
COLLECTOR/ ARTERIAL	4"*	12"*	12"

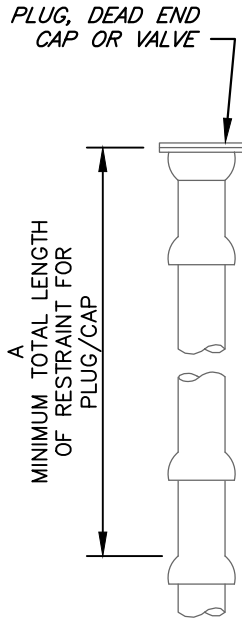
* MINIMUM PAVEMENT SECTIONS CAN BE MODIFIED WITH AN APPROVED PAVEMENT DESIGN SUBMITTED TO THE CITY OF TAMPA MOBILITY DEPT., TRANSPORTATION ENGINEERING DIVISION.

- NOTES:
1. ALL WORK, MATERIALS, AND TESTING PER CITY OF TAMPA PAVEMENT AND RIGHT OF WAY RESTORATION REQUIREMENTS.
 2. 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. MINIMUM LIFT THICKNESS PER FDOT FLEXIBLE PAVEMENT DESIGN MANUAL.
 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 THICKNESS TO DETERMINE REQUIRED DEPTH.
 5. FOR ANY RIGID PAVEMENT ROADWAYS, CONTACT MOBILITY DEPARTMENT CHIEF ENGINEER.

REVISION DATE	DESCRIPTION	DETAIL NO.
MARCH 2024	PAVEMENT DESIGN	PVT-1 SHEET 2 OF 2

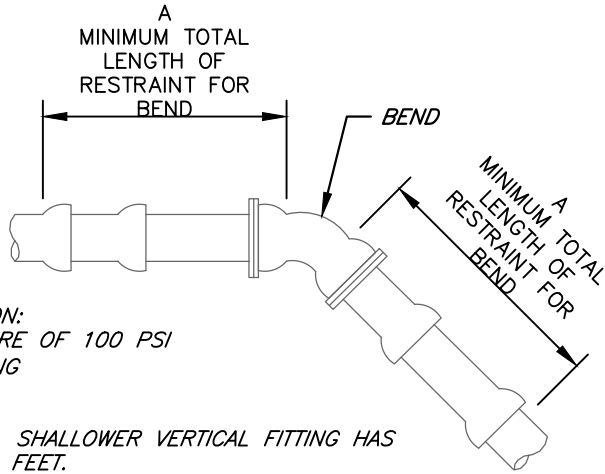
JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: VT DRN: GH CKD: DATE:	CITY of TAMPA WASTEWATER DEPARTMENT	FY26 MISCELLANEOUS PS RISER REPLACEMENTS MISCELLANEOUS FORCE MAIN DETAILS	SHEET
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NOTES:

- THESE TABLES ARE BASED ON:
a. MAXIMUM TEST PRESSURE OF 100 PSI
b. CLASS "C" PIPE BEDDING
c. POOR SOIL CONDITIONS
d. PVC PIPE
e. FOR VERTICAL OFFSETS, SHALLower VERTICAL FITTING HAS A MINIMUM COVER OF 3 FEET.
- RESTRAINING DEVICES FOR PVC PIPE SHALL BE BY MEGALUG (SERIES 2000 PV) OR EQUAL, MEETING ASTM F1674.
- ANY ADDITIONAL FITTINGS WITHIN THE RESTRAINED SECTION SHALL BE RESTRAINED ACCORDINGLY.
- ONE STANDARD LENGTH OF PVC PIPE (20 FEET) SHALL BE LAID ON EITHER SIDE OF THE FITTING WHERE POSSIBLE.



HORIZONTAL OFFSET:

FITTING TYPE	RESTRAIN "A" (LF)							
	4"	6"	8"	10"	12"	16"	18"	20"
11-1/4°	1*	2*	2*	2*	3*	3*	3*	4*
22-1/2°	2*	3*	3*	4*	5*	6*	6*	7*
45°	4*	5*	7*	8*	9*	11*	13*	14*
90°	9*	12*	15*	18*	21	27	29	32
PLUG / CAP / ISOLATION VALVE	26	36	47	56	66	85	94	102

A = MINIMUM FOOTAGE OF PIPE TO BE RESTRAINED

* MINIMUM ONE PIPE JOINT UPSTREAM AND DOWNSTREAM OF EACH FITTING SHALL BE RESTRAINED

VERTICAL OFFSET:

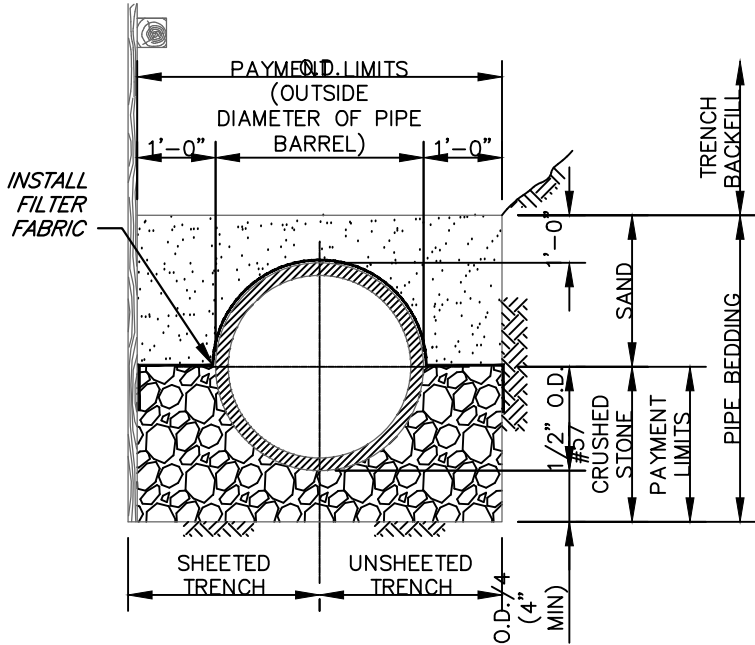
FITTING TYPE	RESTRAIN "A" (LF)							
	4"	6"	8"	10"	12"	16"	18"	20"
11-1/4°	3*	4*	5*	6*	7*	9*	10*	11*
22-1/2°	5*	8*	10*	12*	14*	17*	19*	21
45°	11*	15*	20	23	28	35	39	43

A = MINIMUM FOOTAGE OF PIPE TO BE RESTRAINED

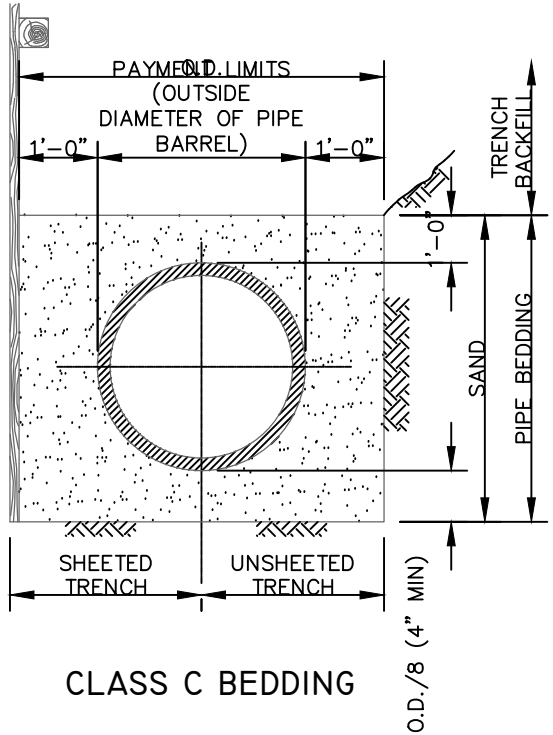
* MINIMUM ONE PIPE JOINT UPSTREAM AND DOWNSTREAM OF EACH FITTING SHALL BE RESTRAINED

FITTING RESTRAINT DETAIL

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CLASS B BEDDING
(ONLY ALLOWED WITH CITY INSPECTOR APPROVAL)

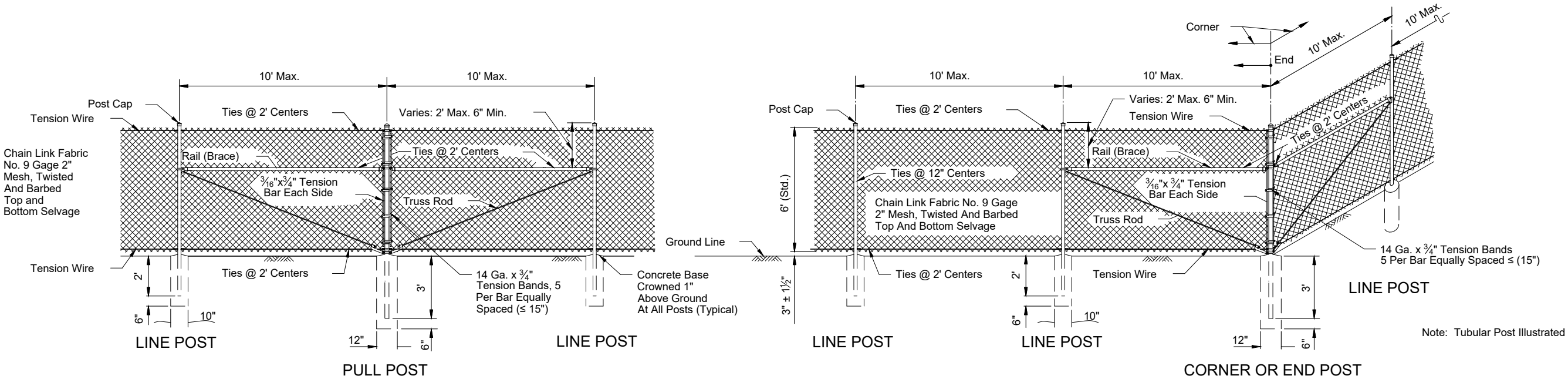


CLASS C BEDDING

PIPE BEDDING DETAILS

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GENERAL NOTES

1. This fence to be used generally in urban areas.
2. For supplemental information refer to Specification 550.
3. Chain link fabric, post, truss rods, tension wires, tie wires, stretcher bars, gates and all miscellaneous fittings and hardware shall meet the requirements of AASHTO and ASTM signify current reference.
4. Fence Component Options:
 - A. Line post options:
 - (1) Galvanized steel pipe, Schedule 40- 1½" nominal dia. zinc galvanized at the rate of 1.8 oz./ft².: ASTM A53 Table 2 (Grade A or B), ASTM F1083, and AASHTO M111.
 - (2) Aluminum coated steel pipe: ASTM A53, Table 2 (Grade A or B): Schedule 40- 1½" nominal dia., 1.90" OD; coated at the rate 0.40 oz./ft.: AASHTO M111.
 - (3) Aluminum alloy pipe- 2" nominal dia.: ASTM B241 or B221, Alloy 6063, T6.
 - (4) Steel H-Beam- 1⅝"x 1⅝": Zinc Galv. 1.8 oz./ft.: AASHTO M111 and Detail.
 - (5) Aluminum alloy H-Beam- 1⅝"x 1⅝" Detail.
 - (6) Steel C- 1⅞"x 1⅝": Galv.: 1.8 oz/ft. zinc: AASHTO M111; OR , 0.9 oz./ft². zinc-5% aluminum-mischmetal: ASTM F1043 and Detail.
 - (7) Resistance welded steel pipe; 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or undepleted stock of discontinued A446/A446M base materials; ASTM F669 Group IV (Alternative Design): fence industry 2" OD, 1½" NPS, 1.900" dec. equiv., 0.120" min. wall thick. and min. wt. 2.28 lb./ft.; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µg/in². min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.
 - B. Corner, end, and pull post options:
 - (1) Galvanized steel pipe, Schedule 40- 2" nominal dia. zinc galvanized at the rate of 1.8 oz./ft².: ASTM A53 Table X 2, ASTM F1083, and AASHTO M111.
 - (2) Aluminum coated steel pipe: ASTM A53 steel, X 2 Tables: Schedule 40; 2" nominal dia., 2.375" OD; coated at the rate 0.40 oz./ft.: AASHTO M111.
 - (3) Aluminum alloy pipe- 2½" nominal dia.: ASTM B241 or B221, Alloy 6063,T6.
 - (4) Resistance welded steel pipe; 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or undepleted stock of discontinued A446/A446M base materials; ASTM F669 Group IV (Alternative Design): fence industry 2½" OD, 2" NPS, 2.375" dec. equiv., 0.130"min. wall thick. and min. wt. 3.117 lb./ft.; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µg/in². min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.

- C. Rail options:
 - (1) Galvanized steel pipe, Schedule 40- 1¼" nominal dia. zinc galvanized at the rate of 1.8 oz./ft².: ASTM A53 Table X 2, ASTM F1083, and AASHTO M111.
 - (2) Aluminum coated steel pipe; ASTM A53 steel, X 2 Tables Schedule 40; 1¼" nominal dia., 1.660" OD; coated at the rate 0.40 oz./ft.: AASHTO M111.
 - (3) Aluminum alloy pipe- 1¼" nominal dia.: ASTM B241 or B221, Alloy 6063, T6.
 - (4) Resistance welded steel pipe; 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or undepleted stock of discontinued A446/A446M base materials; ASTM F669 Group IV (Alternative Design): fence industry 1⅝" OD, 1¼" NPS, 1.660" dec. equiv., 0.111" min. wall thick. and min. wt. 1.836 lb./ft.; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µg/in². min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.
- D. Chain link fabric options (2" mesh with twisted and barbed selvage top and bottom for all options except as described in Note 10):
 - (1) AASHTO M181 Type I - Zinc Coated Steel, No. 9 gage (coated wire diameter), coated at the rate of 1.8 oz/ft². (M181 Class D 2.0 oz./ft². modified to 1.8 oz./ft².).
 - (2) AASHTO M181 Type II -Aluminum Coated Steel, No. 9 gage (coated wire diameter), coated at the rate of 0.40 oz./ft².
 - (3) AASHTO M181 Type IV- Polyvinyl Chloride (PVC) Coated Steel, No. 9 gage (coated core wire diameter), core wire-zinc coated steel. PVC coating: M181 Class A (either extruded or extruded and bonded) or Class B (bonded). See table right. Unless the plans call for M181 standard colors medium green, dark green or black the coating color shall be soft gray matching that of No. 36622 of Federal Standard 595a.
- E. Tension wire options:
 - (1) Steel wire No. 7 gage zinc galvanized at the rate of 1.2 oz./ft².: AASHTO M181.
 - (2) Aluminum alloy wire with a diameter of 0.1875" or larger conforming to the requirements of ASTM B211, Alloy 5056 Temper H38, or, Alclad Alloy 5056 Temper H192.
 - (3) Aluminum coated steel wire No.7 gage coated at the rate of 0.040 oz./ft².: AASHTO M181.
- F. Tie wire and hog ring options:
 - (1) Steel wire No.9 gage zinc galvanized at the rate of 1.2 oz./ft².
 - (2) Aluminum alloy wire with a diameter of 0.1443" or larger conforming to the requirements of ASTM B211, Alloy 5056 Temper H38, or, Alclad Alloy 5056 Temper H192.
 - (3) Aluminum coated steel wire No. 7 gage coated at the rate of 0.040 oz./ft².

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CITY of TAMPA
WASTEWATER DEPARTMENT

FY26 MISCELLANEOUS PS RISER REPLACEMENTS
TYPE B FENCE DETAILS

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