

REVISIONS		
DATE	DESCRIPTION	INITIALS

City of Fort Walton Beach

107 MIRACLE STRIP PKWY SW - FORT WALTON BEACH, FL 32548

LIFT STATION #1 REPLACEMENT

ITB No. 18-002
 BID PLANS
 FY 2017-2018
 PROJECT SP1701



UTILITIES NOTE

FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE WITH UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION.

UTILITY COMPANIES

CONTRACTOR SHALL HAVE ALL EXISTING BURIED UTILITIES LOCATED BY CALLING 1-800-432-4770 "CALL SUNSHINE" OR BY CONTACTING LOCAL UTILITY COMPANIES.

WATER & SEWER: CITY OF FORT WALTON BEACH
 CONTACT: DANIEL PAYNE
 PHONE: (850) 833-9615

OKALOOSA COUNTY
 CONTACT: RANDALL WARD
 PHONE: (850) 651-7176

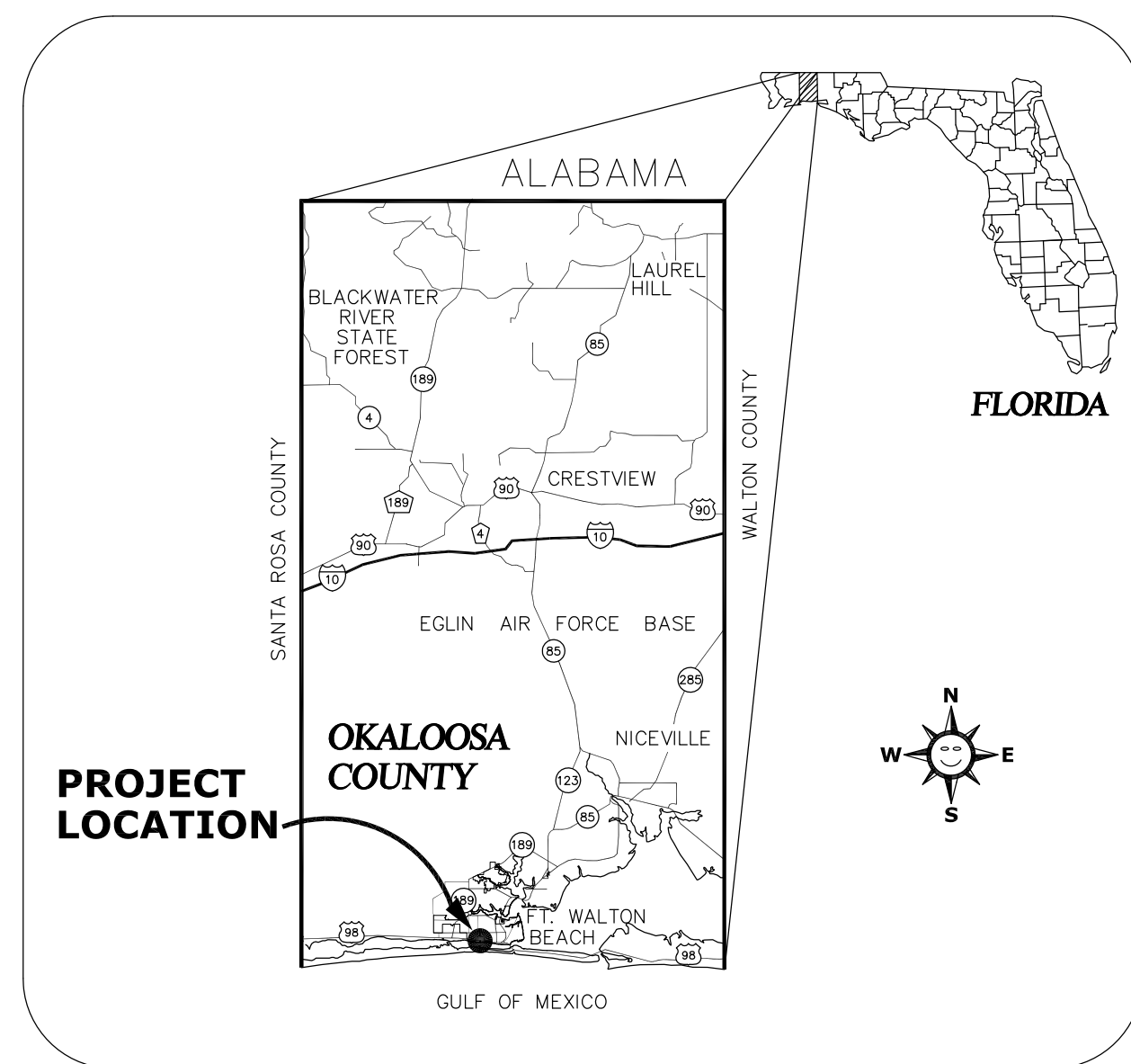
ELECTRIC: GULF POWER
 CONTACT: BRIAN REEVES
 PHONE: (850) 689-4618

GAS: OKALOOSA GAS DISTRICT
 CONTACT: ESSA RHEBI
 PHONE: (850) 729-4864
 LINE SPOT: (850) 729-4880

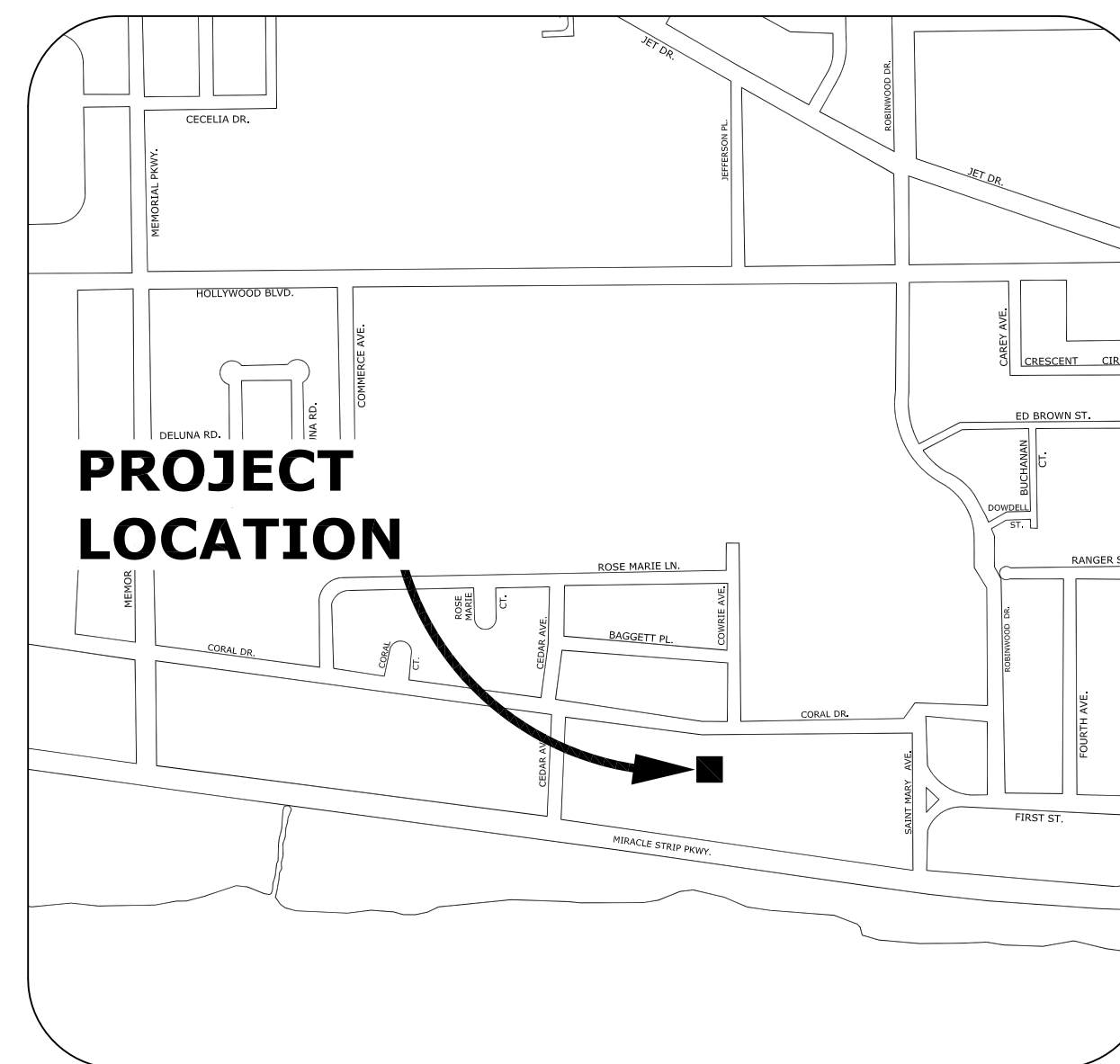
CABLE T.V.: COX COMMUNICATION
 CONTACT: RODGER DIXON
 PHONE: (850) 314-8163
 LINE SPOT: (850) 862-4144

TELEPHONE/FIBER CENTURY LINK
 CONTACT: MIKE BELL
 PHONE: (850) 664-3608
 LINE SPOT: (850) 742-6062

48 HOURS BEFORE YOU DIG
 CALL SUNSHINE
 1-800-432-4770



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

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MAYOR & CITY COUNCIL MEMBERS

- | | |
|----------------|----------------|
| DICK RYNEARSON | MAYOR |
| NIC ALLEGRETTO | COUNCIL MEMBER |
| MIKE HOLMES | COUNCIL MEMBER |
| AMY JAMIESON | COUNCIL MEMBER |
| DIANE KELLER | COUNCIL MEMBER |
| JOHN MEAD | COUNCIL MEMBER |
| DAVID SCHMIDT | COUNCIL MEMBER |
| SCOTT SMITH | COUNCIL MEMBER |
| MICHAEL BEEDIE | CITY MANAGER |

DANIEL J. PAYNE
 FLORIDA PE NO. 74609

NOT VALID WITHOUT SEAL

City of Fort Walton Beach			SUBDIVISION NAME: SEA BREEZE 8TH ADDN	
TITLE: LIFT STATION #1 REPLACEMENT COVER PAGE			CONSTRUCTION DATE:	
AUTOCAD FILE:ENGINEERING-CD/SEWER/LS1 Design/SP1701 LS1 Design.dwg			EASEMENTS:	
DATE: 5/04/2017	SCALE: NTS	PROJECT NO.: SP1701	FIELD BOOK NO.	
DRAWN BY: NRS			SHEET 1 OF 10	DRAWING NO. 7-241
CHECKED BY: DJP				

REVISIONS		
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LIFT STATION #1 REPLACEMENT GENERAL NOTES

GENERAL NOTES:

- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES, AFFECTING THIS WORK, PRIOR TO CONSTRUCTION.
- PRIOR TO THE INITIATION OF SITE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ANY EXISTING UTILITIES INCLUDING GAS, WATER, ELECTRIC, CABLE TV, COMMUNICATIONS, SANITARY SEWERS AND STORM DRAINAGE SYSTEMS, ON AND / OR ADJACENT TO THE SITE. REMOVE OR CAP AS NECESSARY.
- THE CONTRACTOR SHALL EXERCISE CAUTION IN AREAS OF BURIED UTILITIES AND SHALL CALL "SUNSHINE" AT 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO ARRANGE FOR FIELD LOCATIONS OF BURIED UTILITIES.
- CONTRACTOR TO COORDINATE WITH THE APPLICABLE ELECTRIC UTILITY SUPPLIER REGARDING ANY NECESSARY RELOCATION(S) OF UNDERGROUND AND/OR OVERHEAD ELECTRIC FACILITIES, AND FOR LOCATION AND INSTALLATION OF TRANSFORMER PAD(S) AND ASSOCIATED ELECTRIC FACILITIES.
- SAFETY:
 - IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
 - THE GRAPHIC INFORMATION DEPICTED ON THESE PLANS HAS BEEN COMPILED TO PROPORTION BY SCALE AS ACCURATELY AS POSSIBLE. HOWEVER, DUE TO REPRODUCTIVE DISTORTION, REDUCTION, AND/OR REVISIONS, INFORMATION CONTAINED HEREIN IS NOT INTENDED TO BE SCALED FOR CONSTRUCTION PURPOSES.
 - ALL SPECIFICATIONS AND DOCUMENTS REFERENCED HEREIN SHALL BE OF THE LATEST REVISION.
 - ALL UNDERGROUND UTILITIES MUST BE IN-PLACE, TESTED AND INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.
 - WORK PERFORMED SHALL INTERFACE SMOOTHLY WITH ANY OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS/SUBCONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE HIS/HER ACTIVITIES ACCORDINGLY.
 - ALL DISTURBED AREAS WITHIN PUBLIC RIGHT-OF-WAYS SHALL BE STABILIZED AND RESTORED TO EXISTING CONDITION OR BETTER AND SODDED.
 - WHERE APPLICABLE UTILITY TRENCHES CROSSING PAVEMENT AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL IN TWELVE INCH (12") LAYERS AND COMPACTED TO ONE HUNDRED PERCENT (100 %) MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
 - ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE STRICTER OF REQUIREMENTS WILL GOVERN CONSTRUCTION ACTIVITIES WHERE MULTIPLE REGULATIONS EXIST.
 - CONTRACTOR MUST PROVIDE SHOP DRAWINGS TO CIVIL ENGINEER TWO WEEKS PRIOR TO CONSTRUCTION FOR EACH OF THE FOLLOWING COMPONENTS: SANITARY SYSTEM, DRAINAGE SYSTEM, WATER DISTRIBUTION SYSTEM, AND PAVEMENT SECTIONS.
 - SEE SHEET 8 FOR EROSION CONTROL DETAILS.

DEMOLITION NOTES:

- CONTRACTOR SHALL SUBMIT DEMOLITION SCHEDULE TO OWNER PRIOR TO PROCEEDING WITH DEMOLITION ACTIVITIES.
- EXTENT OF SITE CLEARING IS SHOWN ON DRAWINGS.
- CONDUCT SITE DEMOLITION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION.
- PROVIDE PROTECTION NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS INDICATED ON PLAN "EXISTING TO REMAIN."
- RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.
- REMOVE WASTE MATERIALS AND UNSUITABLE AND EXCESS TOPSOIL FROM PROPERTY AND DISPOSE OF OFFSITE IN A LEGAL MANNER.
- LOCATE EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES IN AREAS OF WORK IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING DEMOLITION OPERATION.
- SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING DEMOLITION, CONSULT PROJECT ENGINEER AND UTILITY OWNER FOR IMMEDIATE ACTION.
- DEMOLISH AND COMPLETELY REMOVE FROM SITE MATERIAL INDICATED ON PLAN OR NOTES "TO BE REMOVED."
- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY THE DEMOLITION OPERATION.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER. FURTHERMORE, CONTRACTOR SHALL PROVIDE TO OWNER PHOTOGRAPHS OF PRE-CONSTRUCTION CONDITIONS AND POST-CONSTRUCTION CONDITIONS AS NOTED ON PLANS.
- CONTRACTOR SHALL MAINTAIN STORMWATER MANAGEMENT SYSTEM TO INSURE NO DAMAGE TO ADJACENT PROPERTIES OCCURS DURING STORM EVENTS.

CLEARING AND SITE PREPARATION NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE EROSION CONTROL DEVICES, AS SHOWN ON THE CONSTRUCTION PLANS, PRIOR TO ANY SITE CLEARING AND/OR DEMOLITION.
- PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN, AS INDICATED ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES, AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE(S) SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND THE LOCAL AGENCY HAVING JURISDICTION OVER THESE ACTIVITIES.
- THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, IMMEDIATELY FOLLOWING CONSTRUCTION.
- ALL EXISTING DEBRIS (ABOVE OR BELOW GROUND), CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS.
- CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY CONSTRUCTION FENCE AROUND ENTIRE PERIMETER OF PROPERTY. TYPE OF FENCE TO BE SUBMITTED BY CONTRACTOR TO ENGINEER FOR APPROVAL.

CONSTRUCTION NOTES:

- ALL R-O-W INSTALLATIONS WILL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITIES ACCOMMODATIONS MANUAL.
- SAFE PEDESTRIAN TRAFFIC IS TO BE MAINTAINED AT ALL TIMES.
- ANY SIDEWALK WHICH BECOMES UNDERMINED MUST BE REMOVED AND REPLACED. SIDEWALKS ARE TO BE RECONSTRUCTED WITHIN THREE (3) DAYS AFTER REMOVAL. WHEN EXISTING SIDEWALK IS REMOVED, IT IS TO BE REMOVED TO THE NEAREST JOINT.
- COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99 (100%).
- DISTURBED AREA WITHIN THE R-O-W WILL BE COMPACTED TO 98% OF MAXIMUM DENSITY AND SODDED.
- DO NOT DISTURB EXISTING UNDERDRAIN OR STORM SYSTEMS.
- NO STOCKPILING OF MATERIAL IN ROADWAY OR ON SIDEWALK; ALL DIRT AND DEBRIS WILL BE REMOVED FROM JOB SITE DAILY. ROADS AND SIDEWALKS ARE TO BE SWEEPED DAILY AS PART OF DAILY CLEAN-UP.
- ANY PORTION OF THE ROADWAY THAT SUSTAINS EXCESSIVE CONSTRUCTION RELATED DAMAGE, IN THE OPINION OF APPLICABLE AGENCIES, SHALL BE REPAIRED AT CONTRACTOR EXPENSE IN A MANNER SPECIFIED BY THAT PARTICULAR AGENCY.

EMERGENCY WASTEWATER SPILL AND WATER MAIN BREAK PROCEDURES:

- EXCAVATE CAUTIOUSLY. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WASTEWATER FORCE MAINS AND GRAVITY SEWERS. FORCE MAIN AND SEWER LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING.
- TELEPHONE NOTIFICATION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE APPROPRIATE GOVERNING AGENCY UTILITY INSPECTOR IN THE EVENT OF DAMAGE OR A BREAK TO AN EXISTING UTILITY.
- REPAIR IMMEDIATELY. ALL DAMAGE TO THE CITY OF FORT WALTON BEACH MAINS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY THE CITY OF FORT WALTON BEACH INSPECTOR, THE CITY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR REPAIRS.
- ADVANCE NOTIFICATION OF CONSTRUCTION. THE CITY OF FORT WALTON BEACH CONSTRUCTION/INSPECTION DIVISION SHALL BE NOTIFIED AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- ADVANCE NOTIFICATION OF PENDING CONNECTION. CITY INSPECTORS SHALL BE NOTIFIED AT LEAST (7) DAYS IN ADVANCE TO SCHEDULE MAIN TIE-INS AND VALVE OPERATIONS.
- OPERATION OF CITY VALVES. FOR WATER, WASTEWATER, AND REUSEWATER, VALVES ARE TO BE OPERATED ONLY BY CITY INSPECTOR/AUTHORIZED PERSONNEL. ALL VALVES BEING INSTALLED ARE TO REMAIN CLOSED DURING CONSTRUCTION.
- OPERATION OF PUBLICLY OWNED PUMP STATIONS. THE CONTRACTOR SHALL COORDINATE ALL PUMP STATION OPERATION AND SHUT DOWN WITH THE APPROPRIATE GOVERNING AGENCY UTILITY INSPECTOR.

GRADING AND PAVING NOTES:

- ALL EXISTING UTILITIES SHALL BE FIELD LOCATED AND FLAGGED PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL REMOVE ALL VEGETATION, SURPLUS SOIL, DEMOLITION RUBBLE, AND OTHER UNDESIRABLE MATERIALS. SUCH MATERIALS SHALL BE PROMPTLY HAULED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH GOVERNING LAWS AND CODES. THE CONTRACTOR SHALL SHAPE THE SUB GRADE IN ACCORDANCE WITH THE GRADING PLAN, TAKING INTO ACCOUNT THE THICKNESS OF THE PAVING SYSTEM. THE TOLERANCE OF ROUGH GRADING SHALL BE WITHIN 1/2" HIGH TO 1" LOW.
- WHERE ASPHALT PAVING MEETS CONCRETE PAVING SUCH AS AT CONCRETE CURBING, THE ASPHALT SHOULD BE FINISHED 1/4" TO 1/2" ABOVE THE CONCRETE SURFACE TO ALLOW FOR FURTHER TRAFFIC COMPACTION OF THE ASPHALT.
- DURING PREPARATION OF THE SUB GRADE AND UNTIL THE PAVING IS IN PLACE, THE CONTRACTOR SHALL PROMPTLY TAKE REASONABLE MEASURES TO OBTAIN AND MAINTAIN A DRY SITE CONDITION. SUCH MEASURES SHALL INCLUDE PUMPING OF FREE SURFACE WATER, MINOR HAND AND/OR MACHINE SHAPING TO FACILITATE WATER REMOVAL, AND OTHER OPERATIONS TO SPEED DRYING.
- ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS, AS DIRECTED BY THE OWNER, THE OWNERS ENGINEERS, OR OWNERS SOILS TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOILS TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.
- PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED.
- IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES.
- CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- CURBING SHALL BE PLACED AT THE EDGES OF ALL PAVEMENT, UNLESS OTHERWISE NOTED. REFER TO THE LATEST EDITION OF FOR DETAILS AND SPECIFICATIONS OF ALL CITY TYPE CURB AND GUTTERS CALLED FOR IN THESE PLANS.
- FINAL GRADES SHOWN INCLUDE SOD HEIGHT. ALL AREAS SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS.
- ALL PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX #17346.
- THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS.
- THE CONTRACTOR SHALL RESTORE OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN EXISTING PRIOR TO START OF CONSTRUCTION.
- UNLESS OTHERWISE NOTED, GRADE TO MEET EXISTING ELEVATION AT PROPERTY LINES.
- SURVEY MONUMENTS OR BENCHMARKS, WHICH HAVE TO BE DISTURBED BY THIS WORK, SHALL BE REPLACED UPON COMPLETION OF WORK BY A REGISTERED LAND SURVEYOR.

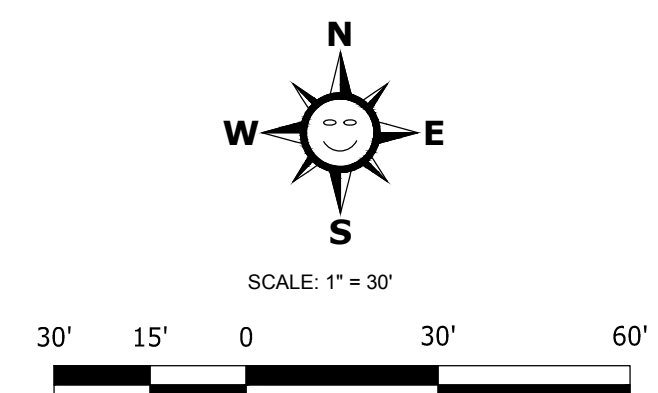
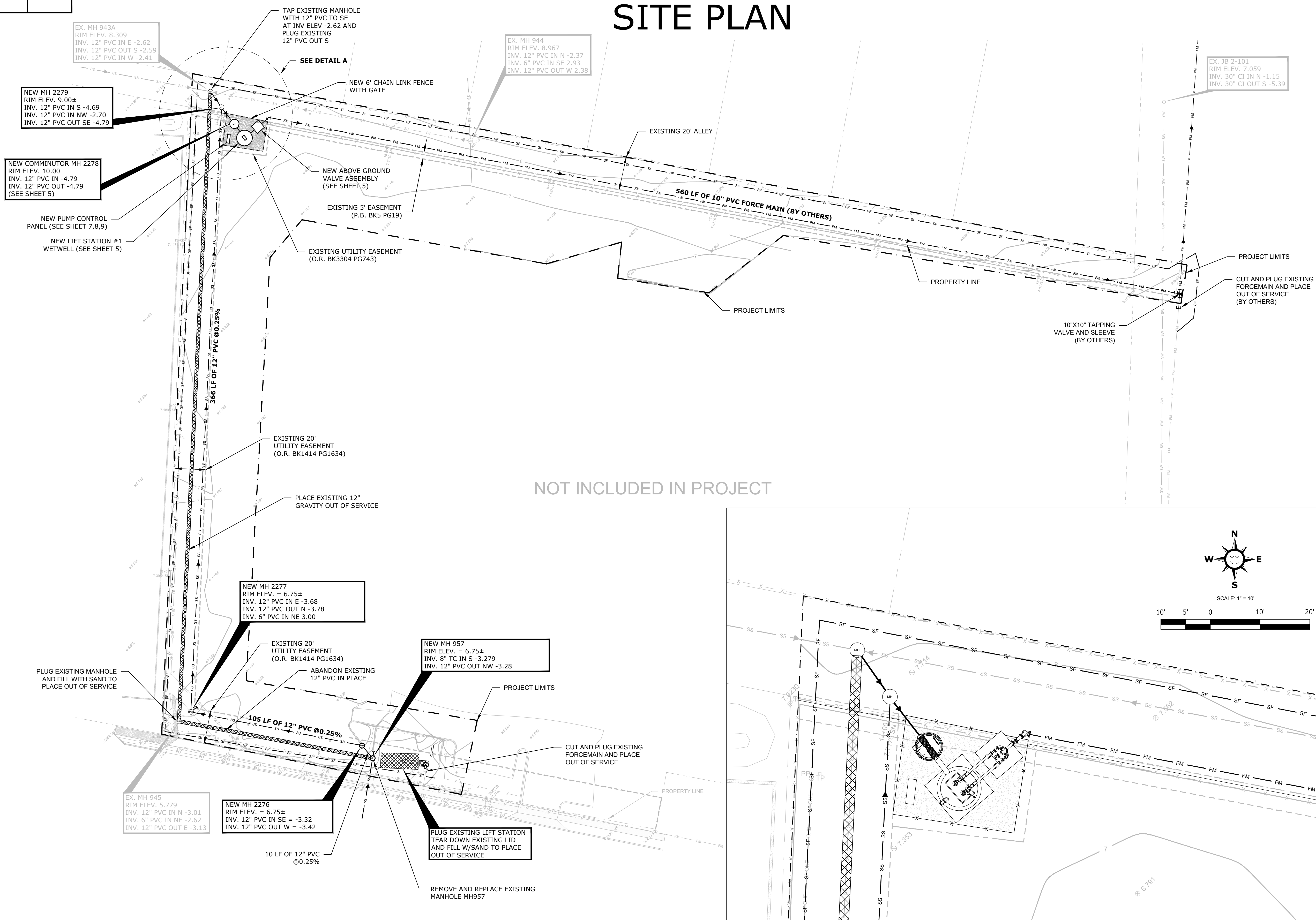
DANIEL J. PAYNE
FLORIDA PE NO. 74609

NOT VALID WITHOUT SEAL

City of Fort Walton Beach		SUBDIVISION NAME: SEA BREEZE 8TH ADDN	
TITLE: LIFT STATION #1 REPLACEMENT GENERAL NOTES		CONSTRUCTION DATE:	
AUTOCAD FILE: 'ENGINEERING-CD\SEWERLS1 Design\SP1701 LSI Design.dwg		EASEMENTS:	
DATE: 5/9/2017	SCALE: N/A	PROJECT NO.: SP1701	FIELD BOOK NO.
DRAWN BY: NRS	CHECKED BY: DJP	SHEET 2 OF 10	DRAWING NO. 7-241

REVISIONS		
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LIFT STATION #1 REPLACEMENT SITE PLAN



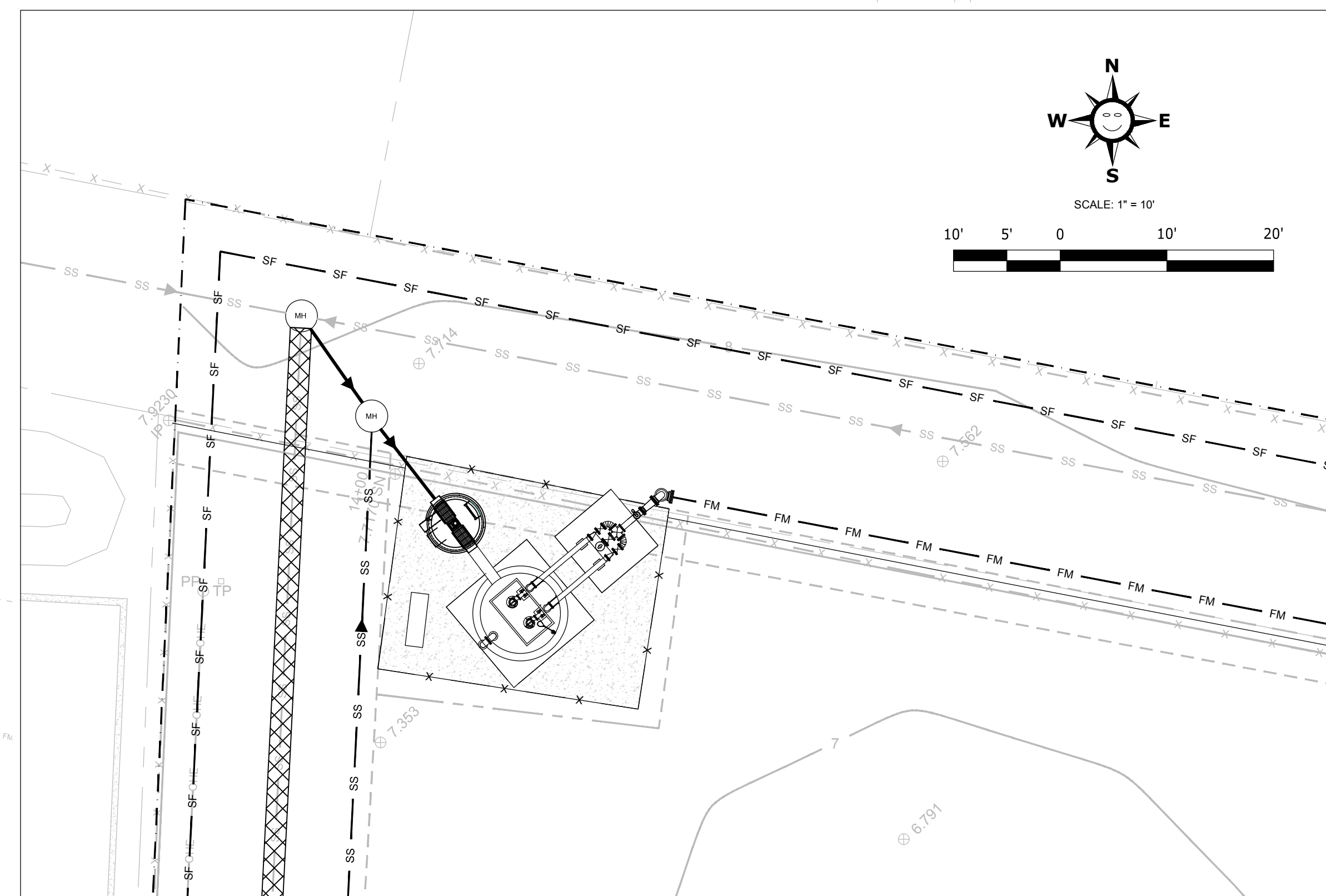
LEGEND

	SANITARY SEWER MANHOLE
	POWER POLE
	SEWER VALVE
	PROJECT LIMITS
	EASEMENT BOUNDARY
	ELEVATION CONTOUR
	WATER LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE
	SANITARY SEWER FORCEMAIN
	SILT FENCE
	OVERHEAD ELECTRIC
	GAS MAIN
	FIBER OPTIC
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	DEMO

CONSTRUCTION NOTES:

- CONTRACTOR TO FIELD VERIFY LOCATION AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS INCLUDING WETWELL AND COMMUNICATOR.
- ALL PVC SEWER AND FORCEMAINS TO BE SDR 26.
- ALL SEWER SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF FORT WALTON BEACH LATEST ENGINEERING STANDARDS.
- CONTRACTOR SHALL RESTORE ALL DAMAGED ASPHALT, CURBING, AND SIDEWALK TO ORIGINAL CONDITION.
- SOURCE OF TOPOGRAPHY SHOWN ON PLANS ARE FROM FIELD WORK PERFORMED BY THE CITY OF FORT WALTON BEACH.
- ALL NEW FORCEMAIN AND PUMP DISCHARGE PIPE AND FITTINGS SHALL HAVE RESTRAINED JOINTS.
- STAGING AREA TO BE COORDINATED WITH OWNER.
- ABANDON EXISTING FORCEMAIN IN PLACE. AFTER MAKING NEW TIE IN, CAP ENDS OF EXISTING FORCE MAIN.
- ALL DI LIFT STATION PIPING AND FITTINGS SHALL BE LINED WITH PERMOX.
- GATE LOCATION SHALL BE COORDINATED WITH CITY.
- CONSTRUCTION SEQUENCE SHALL BE COORDINATED TO AVOID ANY FLOW INTERRUPTION.

NOT INCLUDED IN PROJECT



DETAIL A

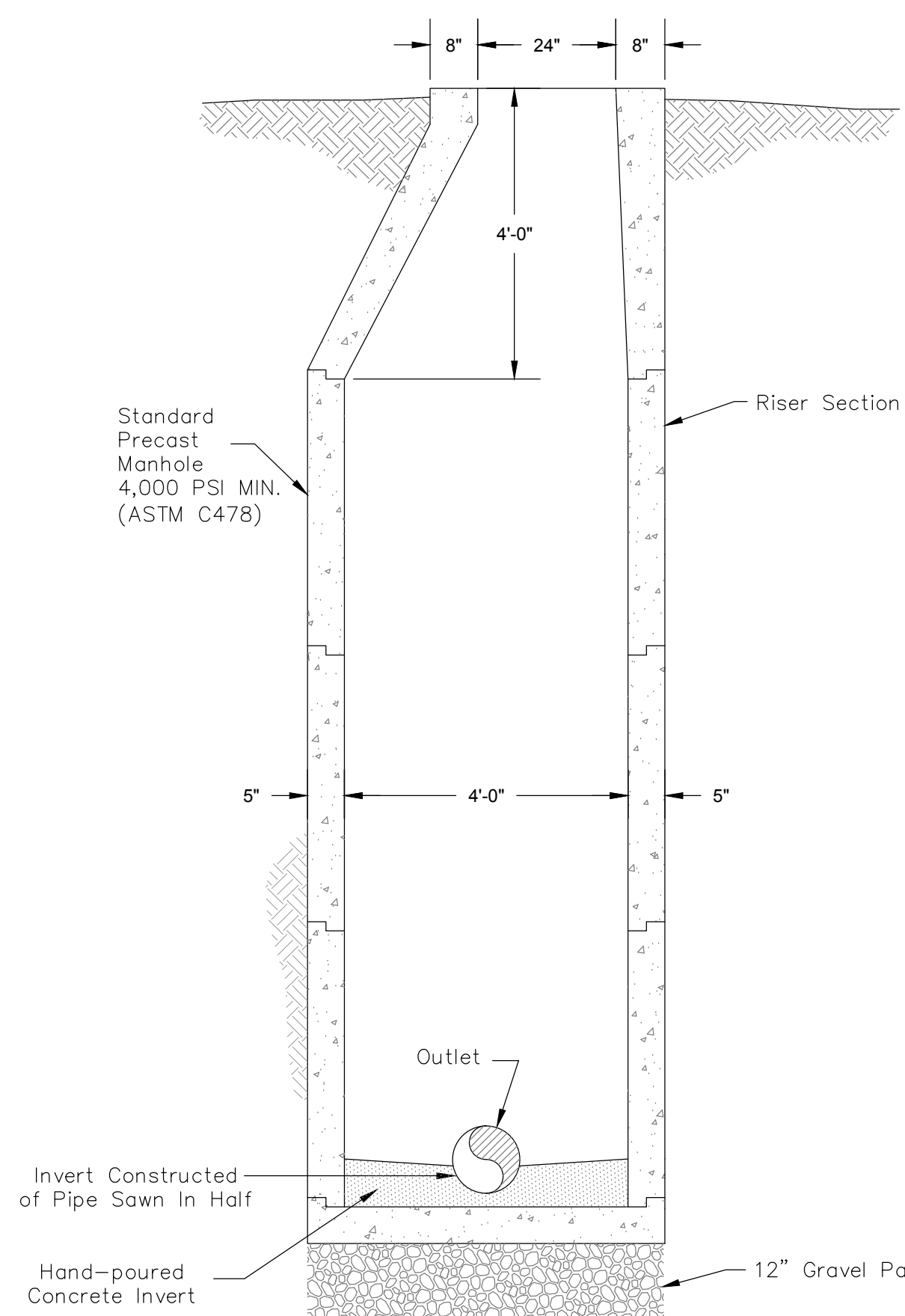
DANIEL J. PAYNE
FLORIDA PE NO. 74609

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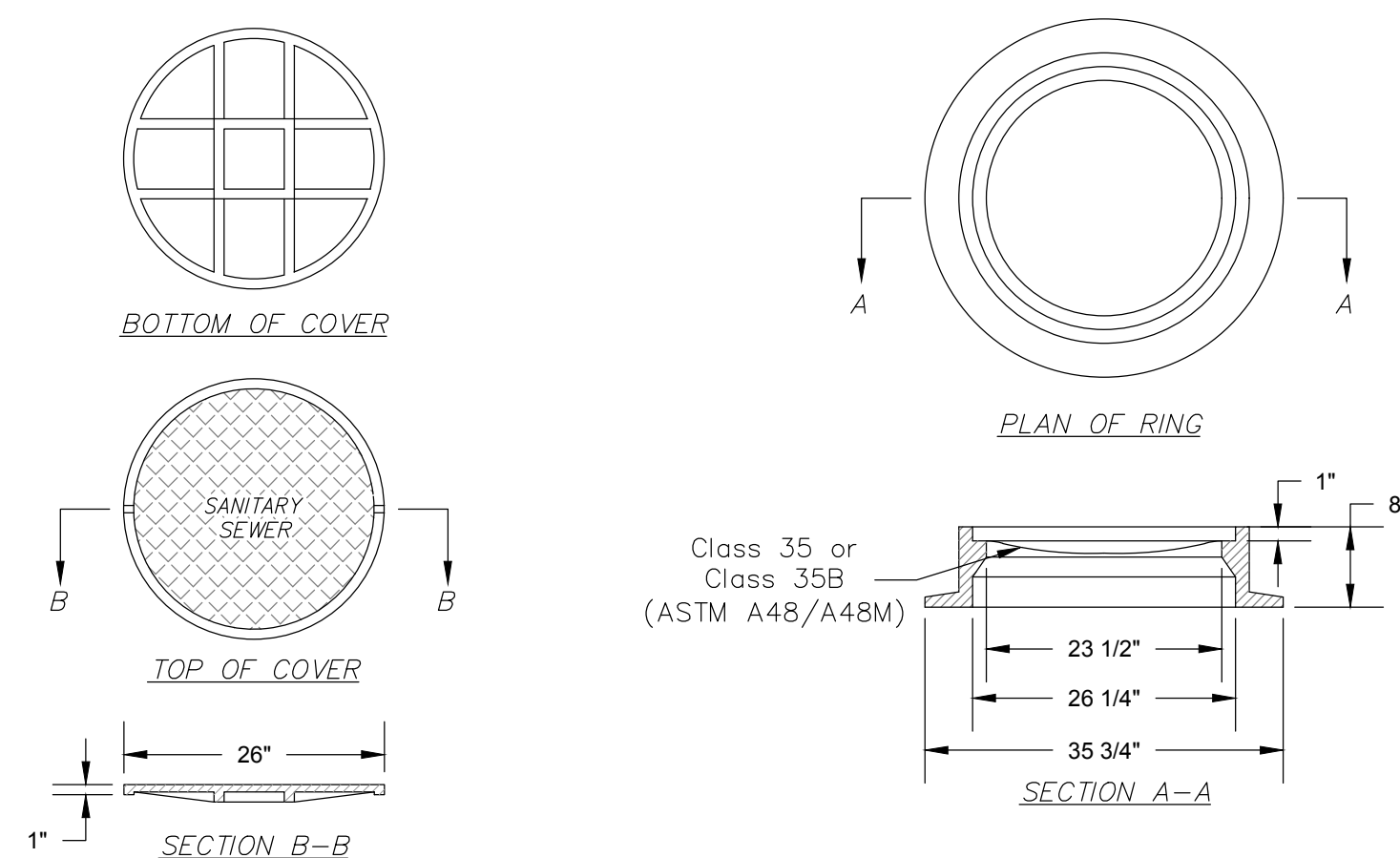
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TITLE: LIFT STATION #1 REPLACEMENT SITE PLAN		CONSTRUCTION DATE:	
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DATE: 5/9/2017	SCALE: 1" = 30'	PROJECT NO.: SP1701	FIELD BOOK NO.
DRAWN BY: NRS	CHECKED BY: DJP	SHEET 3 OF 10	DRAWING NO. 7-241

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LIFT STATION #1 REPLACEMENT DETAILS

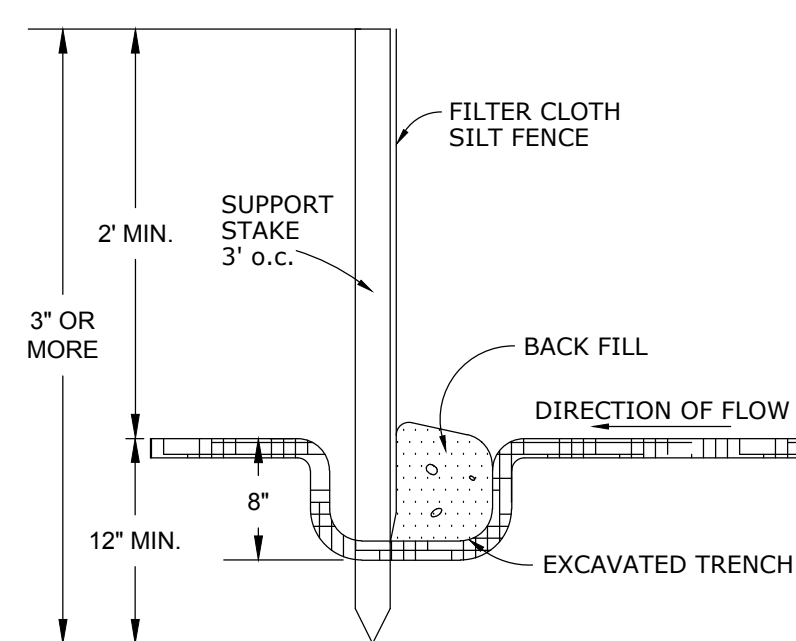


STANDARD SEWER MANHOLE
NOT TO SCALE



MANHOLE COVER & RING
NOT TO SCALE

STANDARD SEWER MANHOLE (ESM-9.17)
NTS

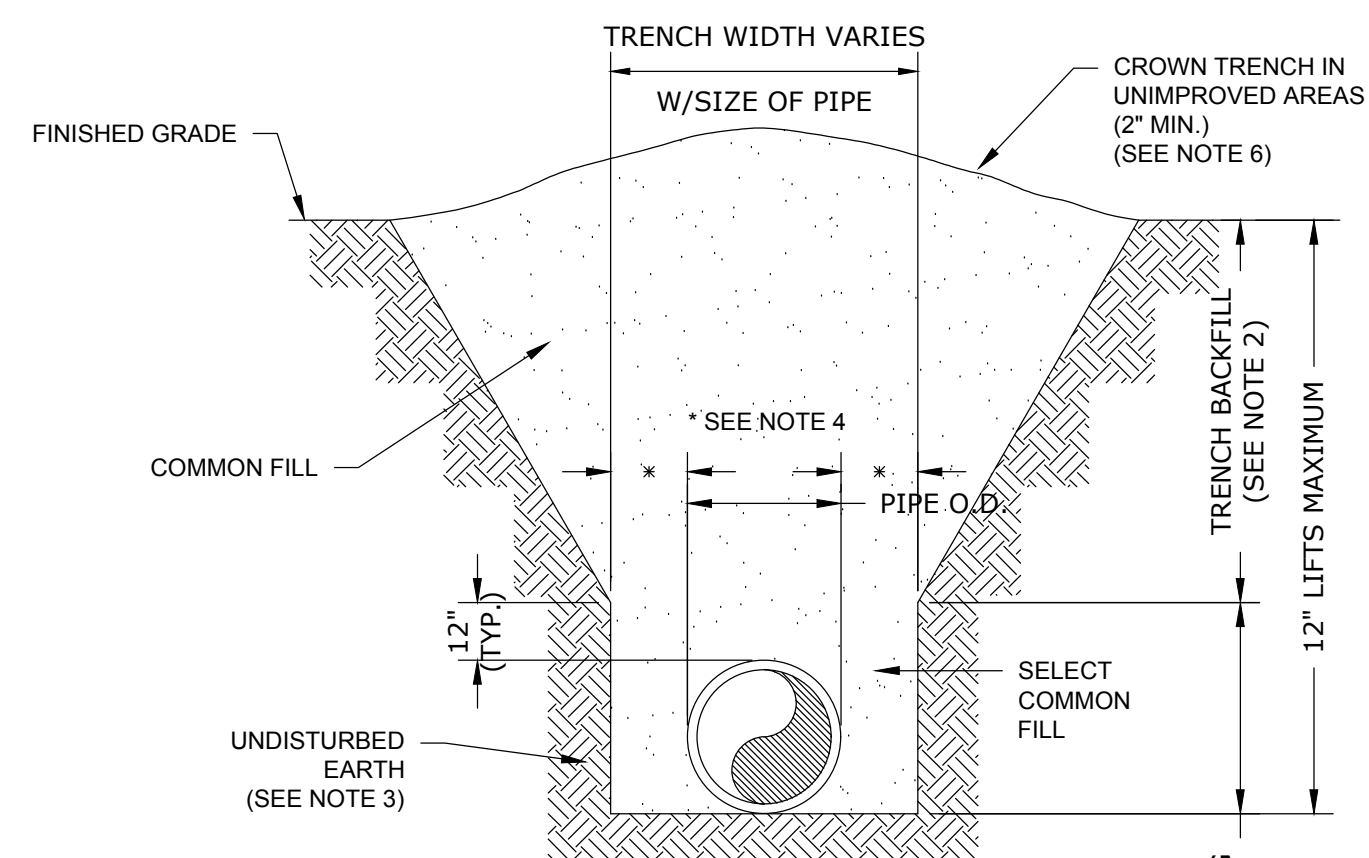


NOTE: SILT FENCE TO BE CONSTRUCTED AND MAINTAINED AROUND ALL INLETS; ALSO ACROSS DRAINAGE COURSE AT EDGE OF SITE.

EROSION NOTES:

- ALL SILT FENCING SHALL BE INSTALLED AND SPACED ACCORDING TO FDOT INDEX #102.
- EROSION PROTECTION, SUCH AS STAKED BALED HAY AND SILT FENCE BARRIERS, MUST BE INSTALLED PRIOR TO START OF CONSTRUCTION.
- SILT FENCE BARRIER SHALL BE INSTALLED AS SHOWN ON PLANS, AND IN ALL AREAS SUBJECT TO SOIL EROSION SEDIMENTATION, SPECIFICALLY ADJACENT TO ALL BODIES OF WATER AND WETLAND AREAS WHERE THERE IS A POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- SEDIMENT AND EROSION CONTROL DEVICES SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED AT COMPLETION OF THE PROJECT.

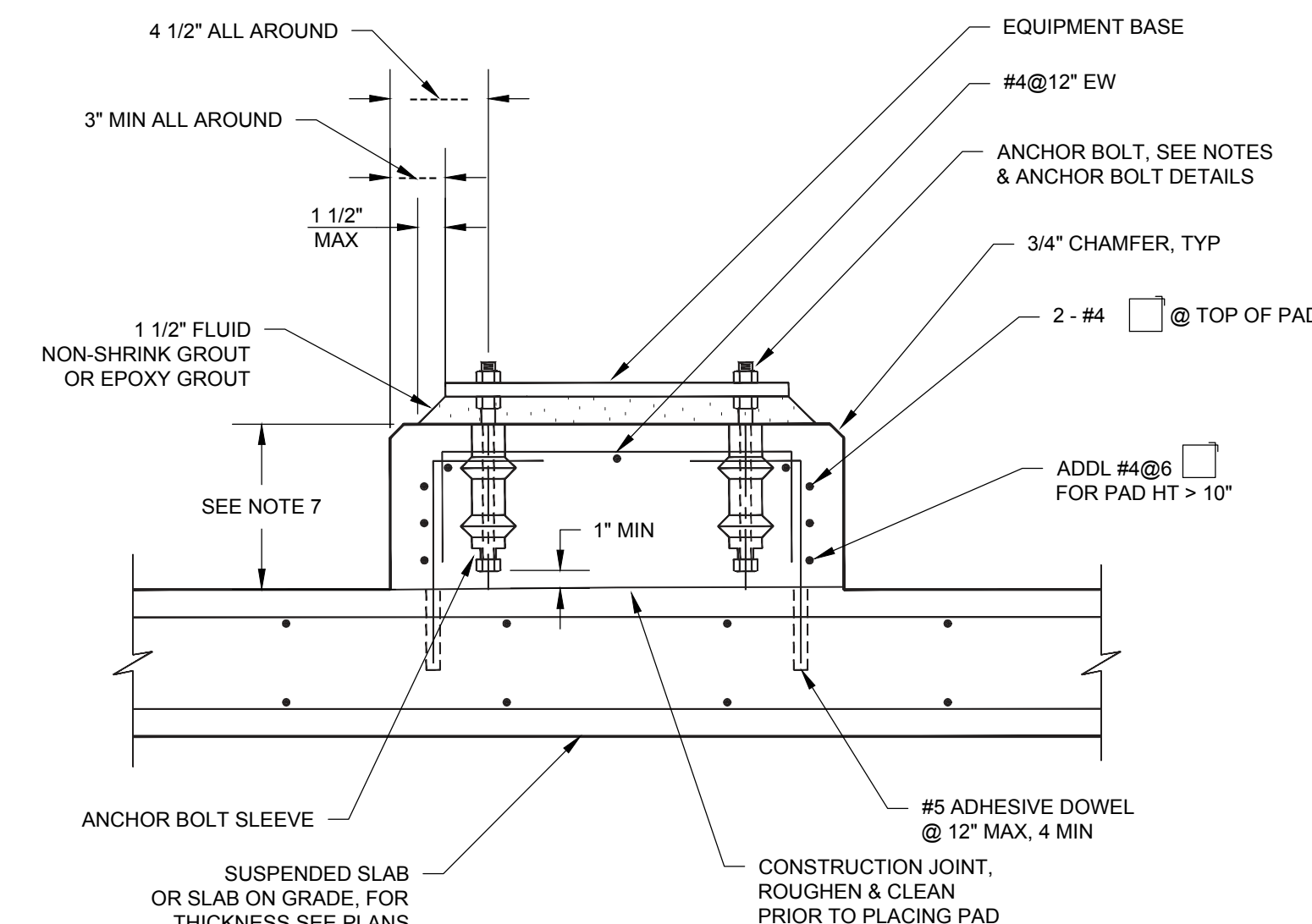
SILT FENCE (ESM-3.01)
NTS



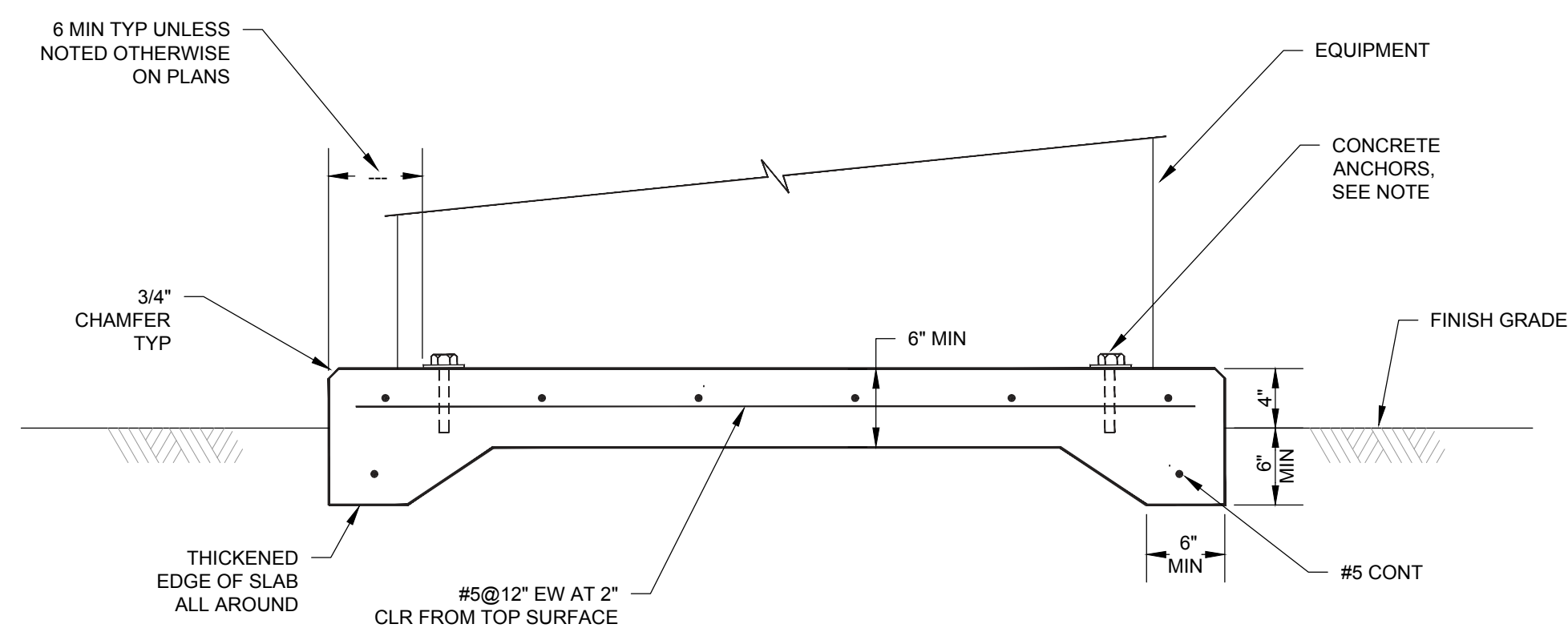
GENERAL NOTES:

- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE CITY.
- (*) 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
- ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
- FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN FDOT & CITY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

PIPE BACKFILL (ESM-9.09)
NTS



CONCRETE EQUIPMENT PAD - TYPE F
NTS



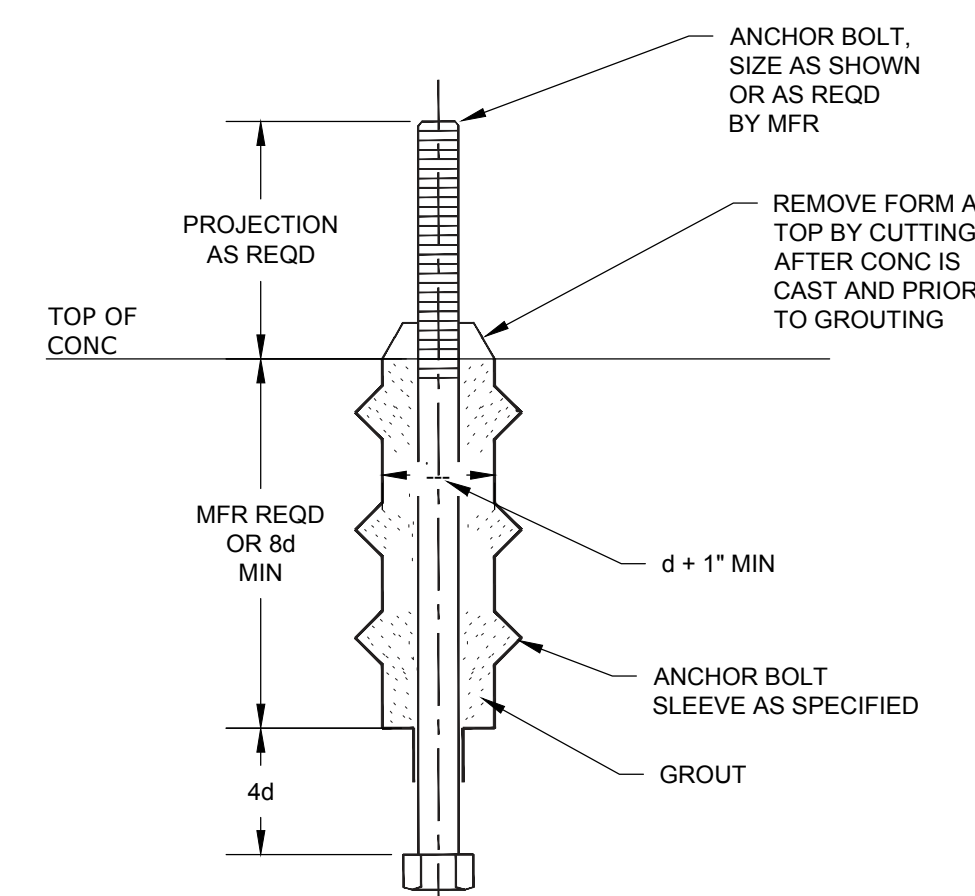
CONCRETE EQUIPMENT PAD - TYPE G
NTS

NOTES:

- PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
- THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER AND AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE OR OTHER ACCEPTABLE MEANS, MATCHING THE BASE PLATE, WHILE PAD IS BEING PLACED.
- ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE MINIMUM ANCHOR BOLT MOVEMENT OF 1/2" IN ALL HORIZONTAL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER.
- ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT AFTER BOLTS ARE ALIGNED.
- EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS INDICATED OTHERWISE.
- WEDGES, SHIMS, OR LEVELING NUTS SHALL BE USED TO SUPPORT THE BASE WHILE THE GROUT IS PLACED. WEDGES OR SHIMS SHALL BE REMOVED AFTER GROUT IS SET AND PACK VOID WITH GROUT.
- HEIGHT OF PADS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB (SEE TABLE BELOW).
- AT CONTRACTOR'S OPTION, CONCRETE ANCHORS MAY BE USED IN LIEU OF CAST-IN-PLACE ANCHOR BOLTS FOR EQUIPMENT ANCHOR BOLTS LESS THAN 3/4" DIAMETER WHEN APPROVED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER. ANCHORS SHALL BE INSTALLED WITH 4" MINIMUM EDGE DISTANCE IN EACH DIRECTION.

AB DIA (IN.)	1/2	5/8	3/4	7/8	1	1 1/4	1 3/8	1 1/2	1 3/4	2
MIN PAD HT (IN.)	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2

CONCRETE EQUIPMENT PAD NOTES
NTS



ANCHOR BOLT
NTS

DANIEL J. PAYNE
FLORIDA PE NO. 74609

NOT VALID WITHOUT SEAL

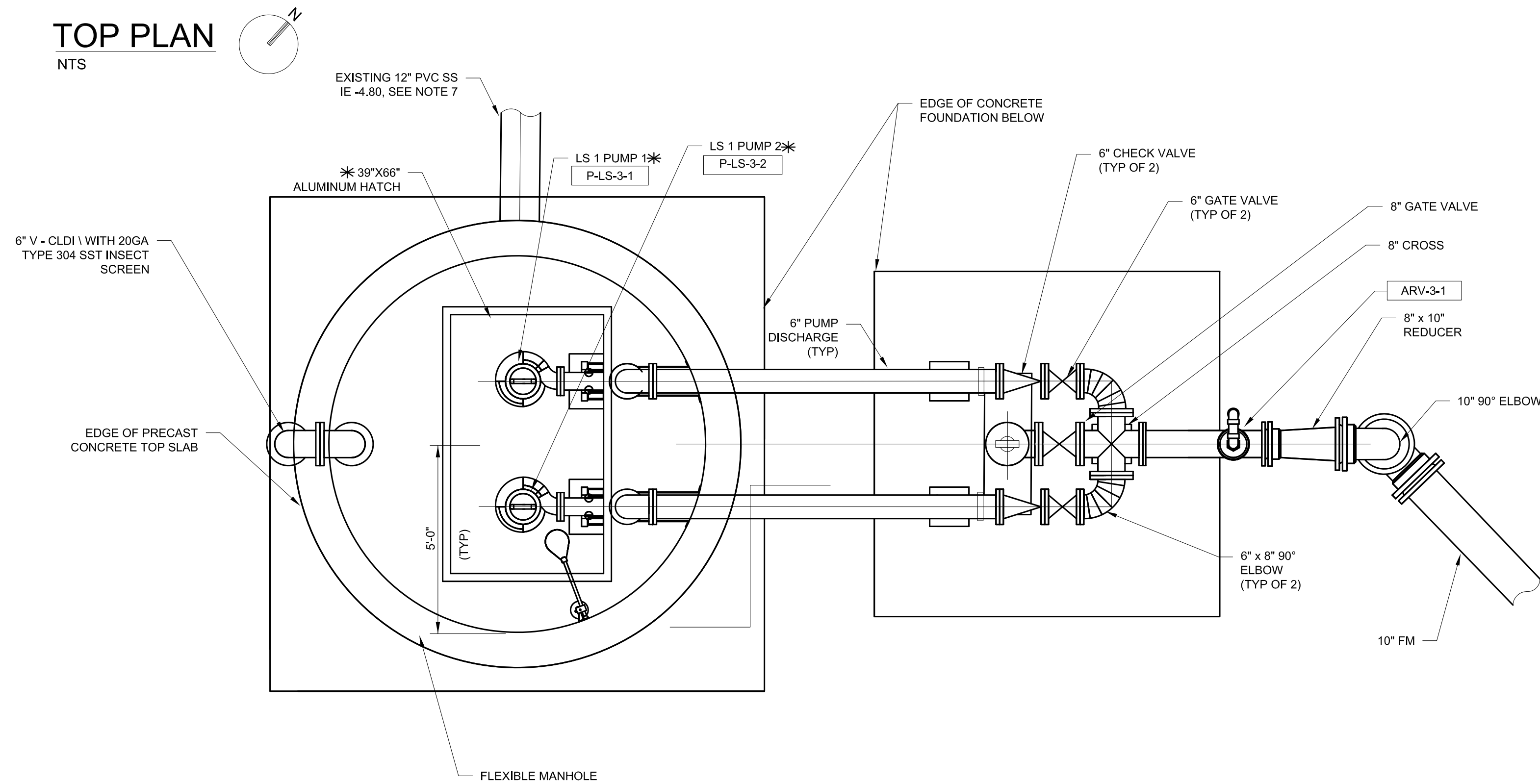
City of Fort Walton Beach		SUBDIVISION NAME: SEA BREEZE 8TH ADDN	
TITLE: LIFT STATION #1 REPLACEMENT DETAILS		CONSTRUCTION DATE:	
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DATE: 5/9/2017	SCALE: N/A	PROJECT NO.: SP1701	FIELD BOOK NO.
DRAWN BY: NRS	CHECKED BY: DJP	SHEET 4 OF 10	DRAWING NO. 7-241

REVISIONS		
DATE	DESCRIPTION	INITIALS

LIFT STATION #1 REPLACEMENT PLAN AND SECTION

TOP PLAN

NTS

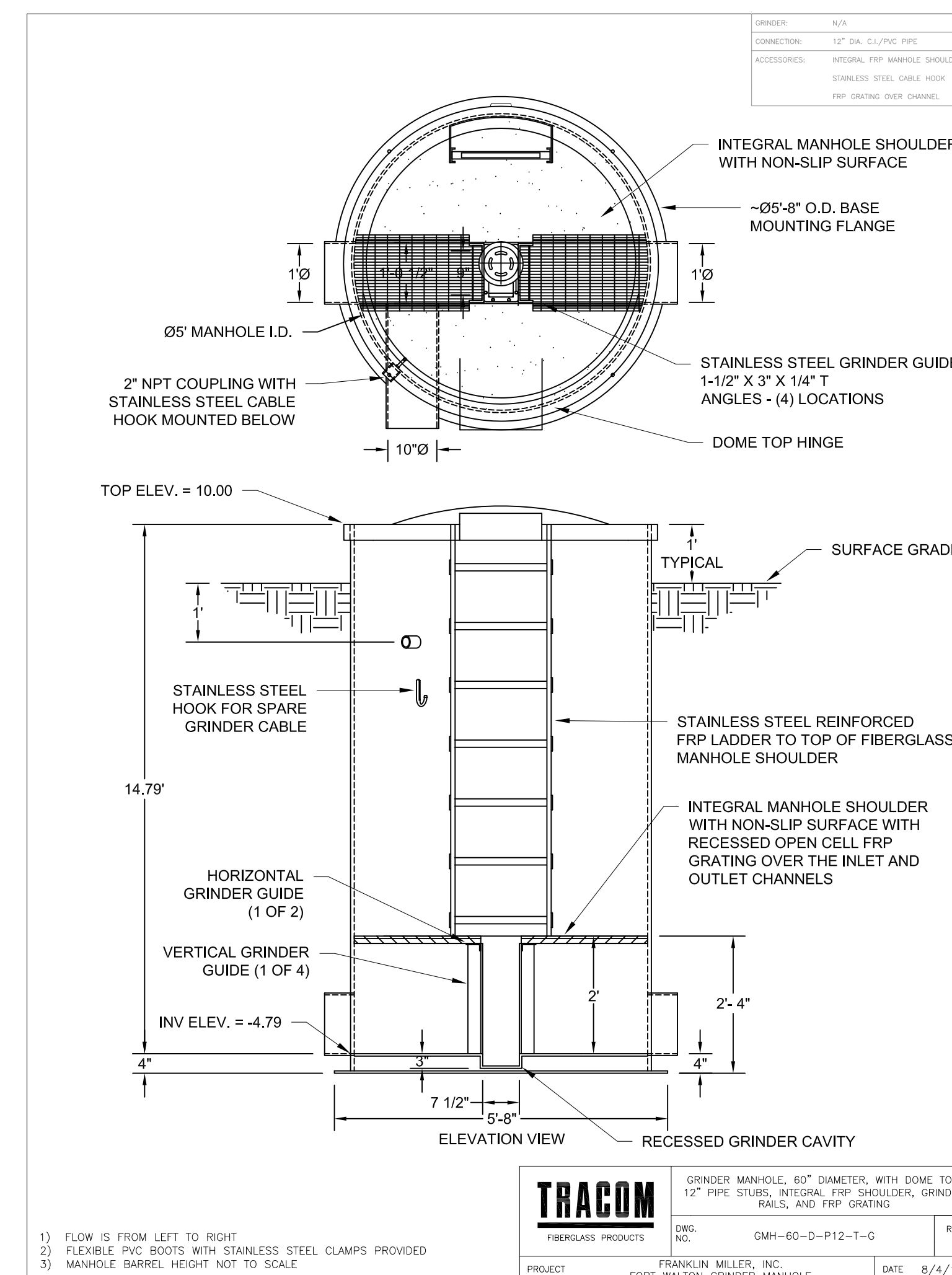
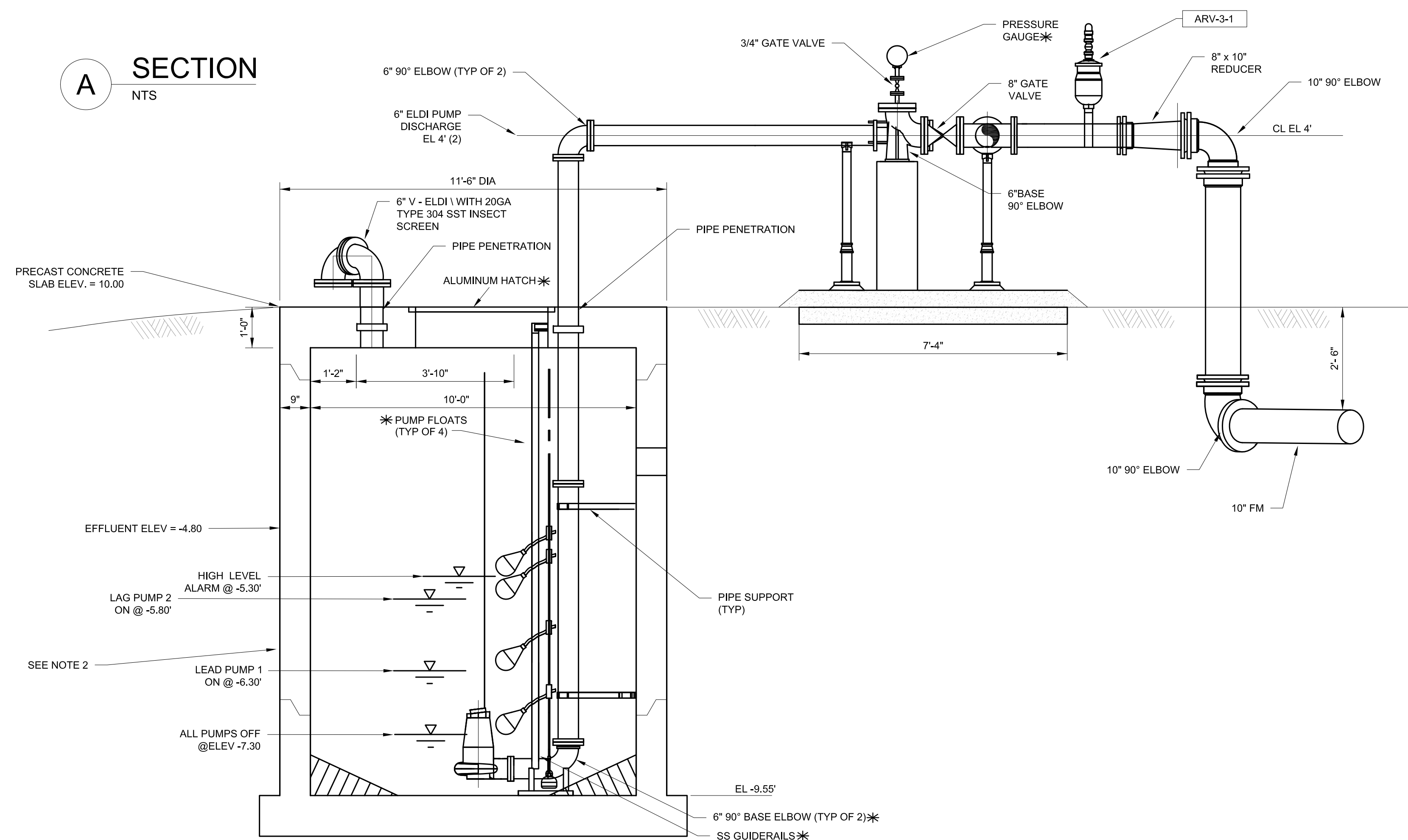


NOTES:

1. PRECAST CONCRETE LIFT STATION AND VALVE VAULT DESIGNED BY PRECAST MANUFACTURER. PROVIDE WATER TIGHT JOINTS BETWEEN PRECAST SECTIONS AND BETWEEN PRECAST WALLS AND BASE SLABS. DESIGN SURCHARGE LOAD IS HS-20.
2. A FIBERGLASS WETWELL CAN BE USED IN LIEU OF A CONCRETE STRUCTURE.
3. DESIGN OF SECTIONS SHALL CONFORM TO ASTM C478.
4. WALL THICKNESS AND SLAB THICKNESS SHOWN IS A MINIMUM REQUIREMENT. PRECAST MANUFACTURER SHALL DETERMINE IF ACTUAL THICKNESS REQUIRED ARE GREATER THAN THOSE SHOWN HERE.
5. DESIGN LIVE LOAD ON HATCH AND CONCRETE SLABS = HS-20.
6. CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF GRAVITY MAIN PRIOR TO ORDERING WETWELL AND EXTEND LINE TO WET WELL.
7. NEW CONCRETE WETWELL IS TO BE EPOXY LINED WITH STRAYROCK® COATING. IF A FIBERGLASS WETWELL IS PROPOSED, NO ADDITIONAL COATING IS REQUIRED.
8. ADDITIONAL DESIGN CRITERIA:
RISK CATEGORY: III
ULTIMATE DESIGN WIND SPEED, Vult: 155 MPH
NOMINAL DESIGN WIND SPEED, Vnsd: 120 MPH
WIND EXPOSURE: D
CLASSIFICATION: ENCLOSED
9. * REPRESENTS OWNER SUPPLIED MATERIALS.
10. ALL DI PIPE AND FITTINGS SHALL BE LINED WITH PERMOX® COATING.
11. IF FIBERGLASS WETWELL IS PROPOSED, WETWELL IS TO BE SUPPLIED AND PLUMBED OUT BY PUMP SUPPLIER.

A SECTION

NTS



COMMINUTOR DETAIL

1) FLOW IS FROM LEFT TO RIGHT
2) FLEXIBLE PVC BOOTS WITH STAINLESS STEEL CLAMPS PROVIDED
3) MANHOLE BARREL HEIGHT NOT TO SCALE

TRACOM		GRINDER MANHOLE, 60" DIAMETER, WITH DOME TOP, 12" PIPE STUBS, INTEGRAL FRP SHOULDER, GRINDER RAILS, AND FRP GRATING	
PROJECT	FRANKLIN MILLER, INC. FORT WALTON GRINDER MANHOLE	DATE	8/4/17

DANIEL J. PAYNE
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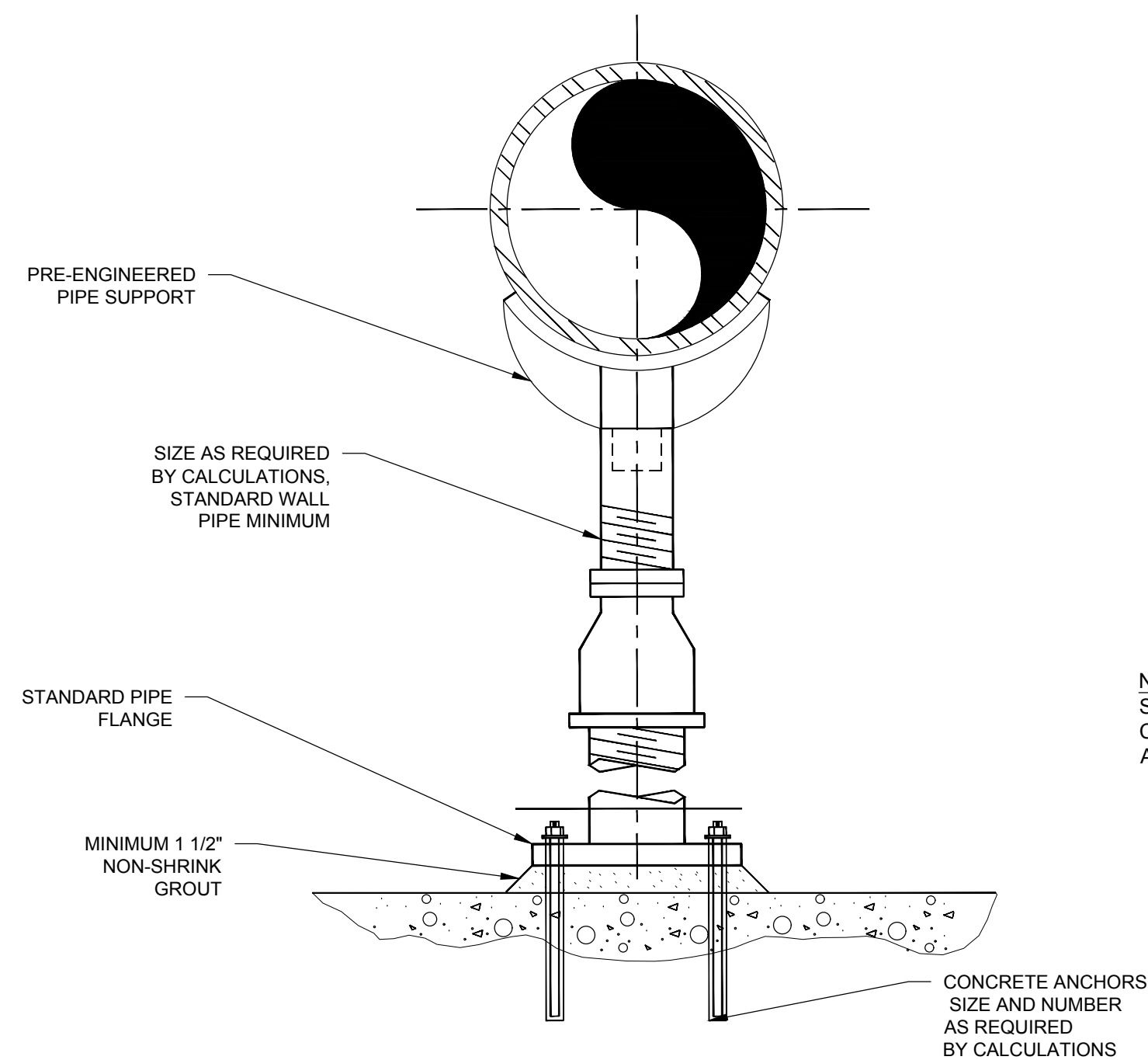
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City of Fort Walton Beach		SUBDIVISION NAME: SEA BREEZE 8TH ADDN	
TITLE: LIFT STATION #1 REPLACEMENT PLAN AND SECTION		CONSTRUCTION DATE:	
AUTOCAD FILE: ENGINEERING-CDSEWERLS1 DesignSP1701.LS1 Design.dwg		EASEMENTS: FIELD BOOK NO.	
DATE: 5/9/2017	SCALE: 1/2" = 1'	PROJECT NO.: SP1701	SHEET 5 OF 10
DRAWN BY: NRS	CHECKED BY: DJP	DRAWING NO. 7-241	

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REVISIONS		
DATE	DESCRIPTION	INITIALS

LIFT STATION #1 REPLACEMENT DETAILS

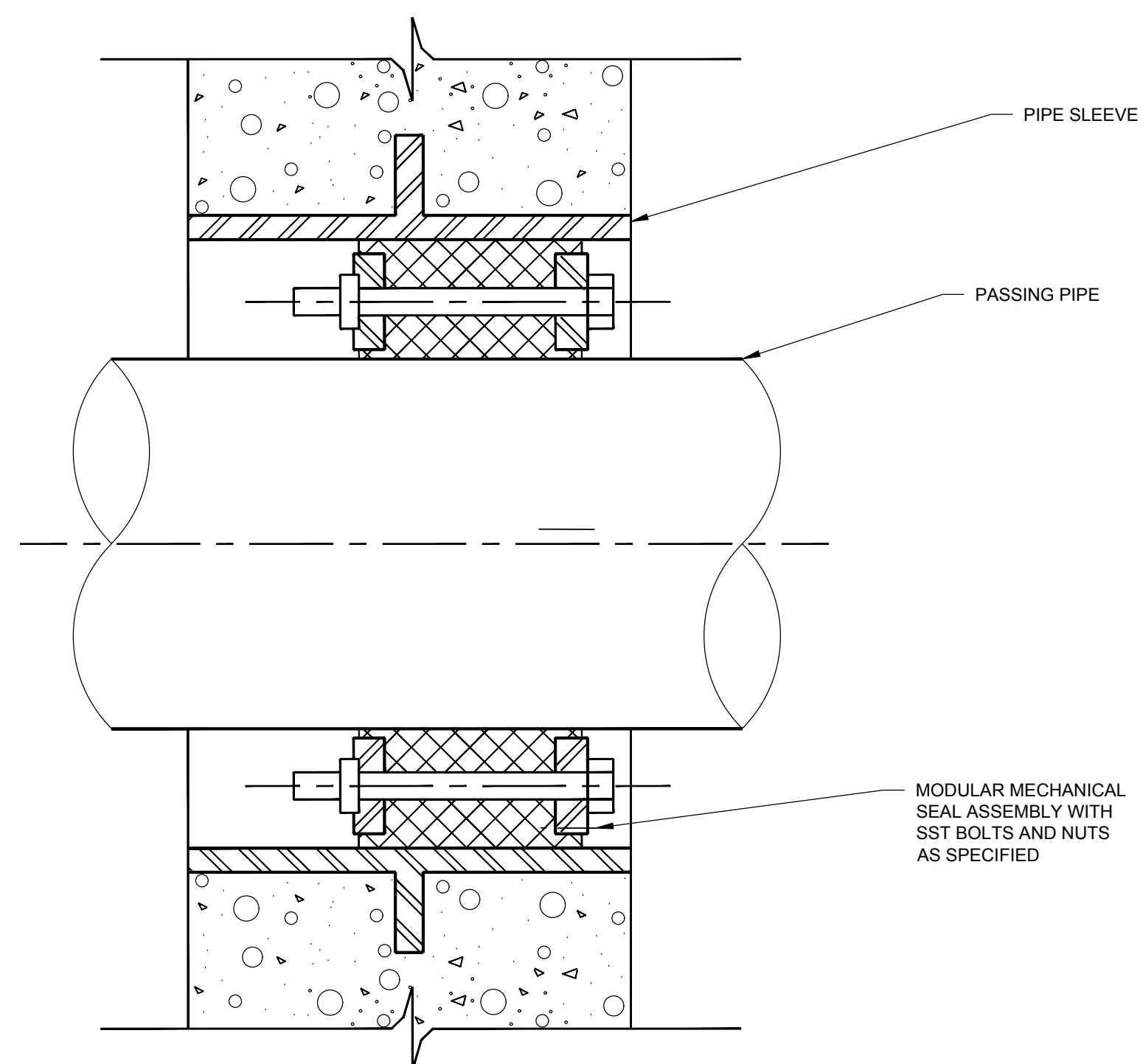


DIMENSION TABLE	
PIPE SIZE	MINIMUM NOMINAL PIPE SIZE
2-1/2"	2-1/2"
3"	2-1/2"
4"	3"
6"	3"
8"	3"
10"	3"
12"	3"
14"	4"
16"	4"
20"	6"
24"	6"

NOTE: SUBMIT FINAL DESIGN AND CALCULATIONS FOR SUPPORT AND ANCHORAGE AS SPECIFIED.

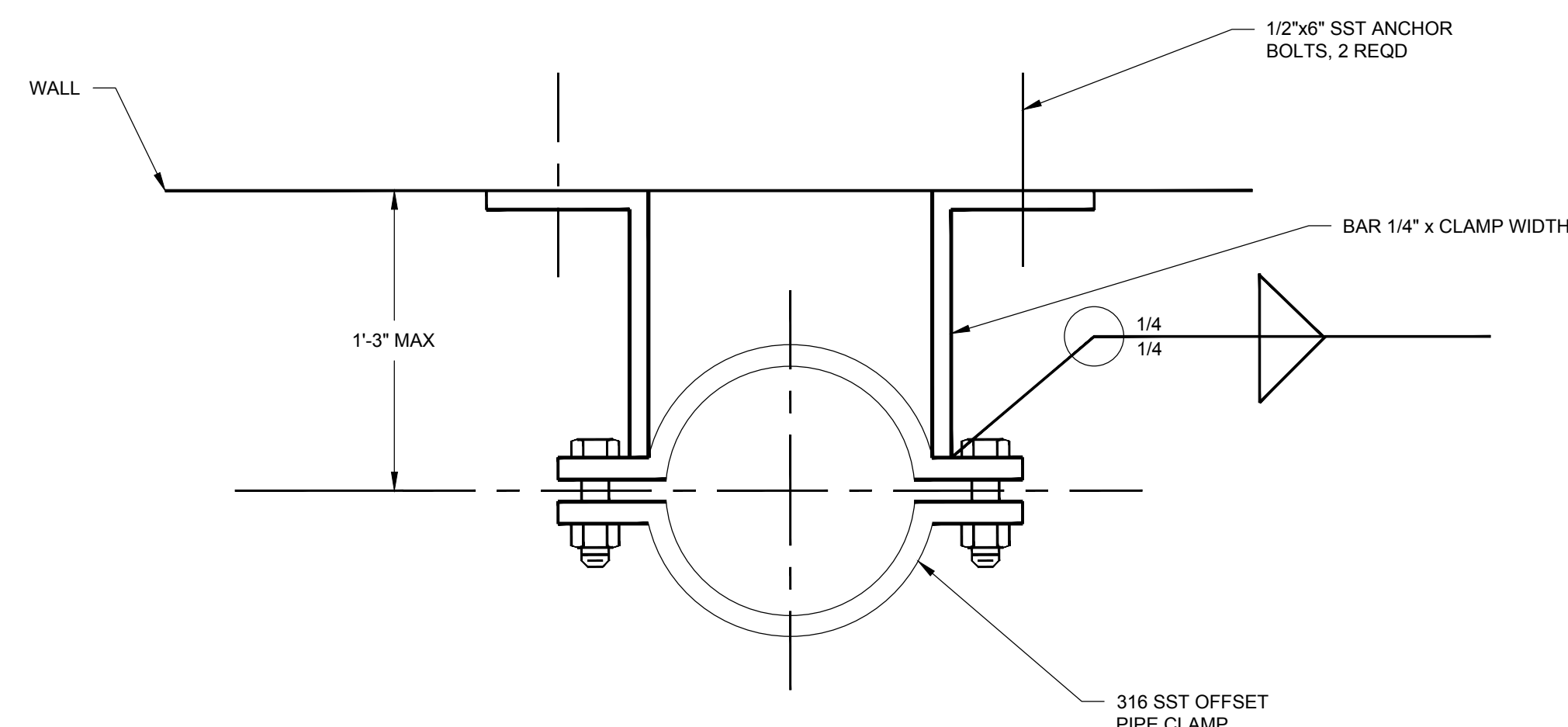
PIPE SUPPORT SADDLE SUPPORT PEDESTAL TYPE - ADJUSTABLE

NTS



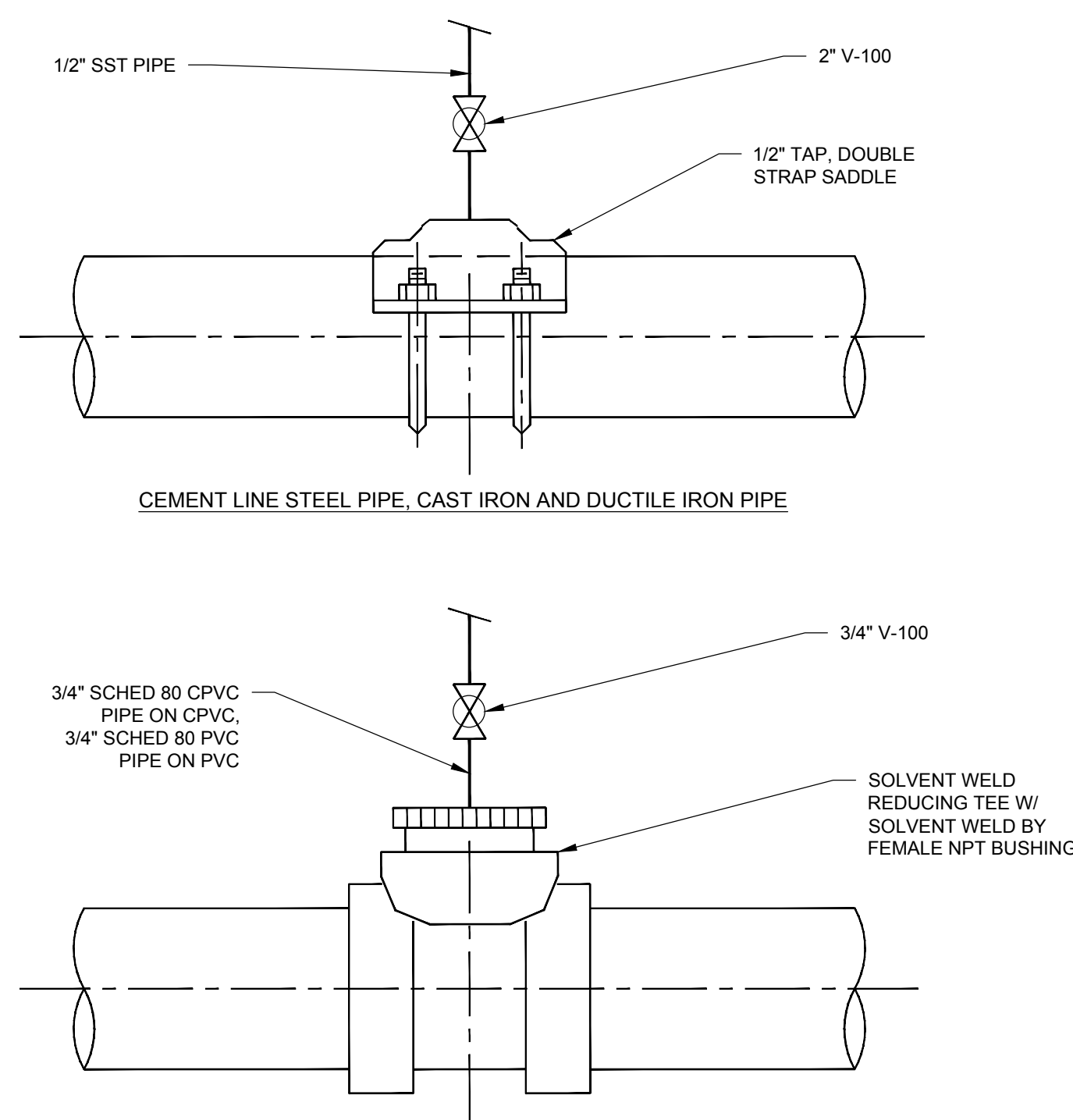
WALL PIPE PENETRATION SEAL

NTS



TYPE B PIPE SWAY BRACE

NTS



PRESSURE CONNECTION INSTALLATION

NTS

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