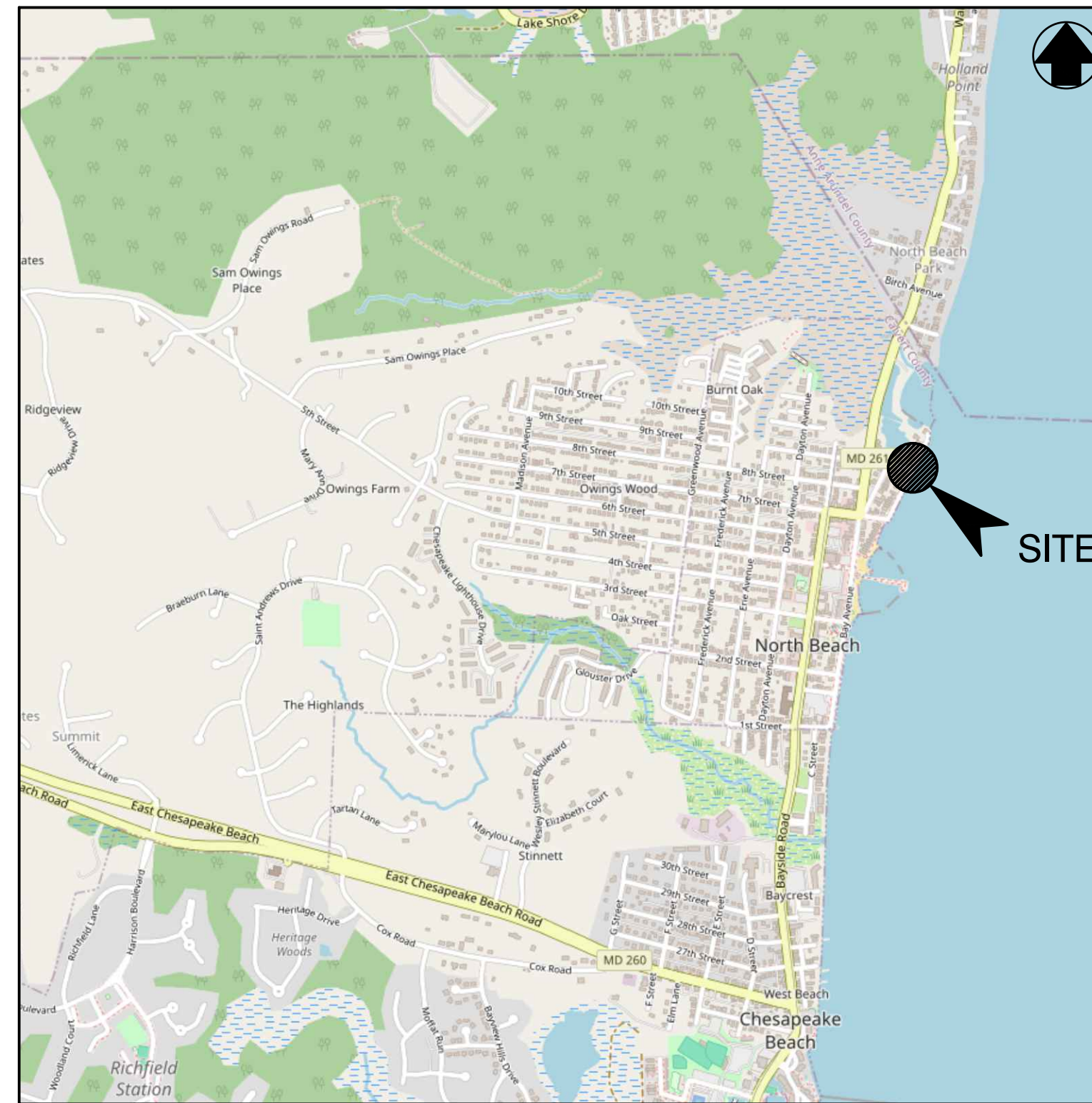


TOWN OF NORTH BEACH

9TH STREET STORMWATER PUMPING STATION UPGRADES

CALVERT COUNTY, MD

BEFORE YOU DIG CALL
1-800-257-7777 OR DIAL 811



LOCATION MAP
SCALE: 1"=1000'

LEGEND

TRaverse POINT	TPS UA
EX. PROPERTY LINE/RIGHT-OF-WAY	---
EX. EASEMENT	---
EX. MAJOR CONTOUR	-3-
EX. MINOR CONTOUR	-3-
EX. STORM DRAIN AND INLET	[Symbol]
EX. SANITARY SEWER & MANHOLE	[Symbol]
EX. WOODEN FENCE	[Symbol]
EX. CHAINLINK FENCE	[Symbol]
PR. SOIL BORING	B-1
EX. TREE TO REMAIN	[Symbol]
PR. PAVEMENT	[Symbol]
PR. STORM DRAIN & INLET	[Symbol]
EX. SIGN	[Symbol]
EX. LIGHT POLE	[Symbol]
EX. RIPRAP	[Symbol]
EX. UTILITY POLE	[Symbol]

PROJECT INFORMATION

1. OWNER INFORMATION:	TOWN OF NORTH BEACH DEPARTMENT OF PUBLIC WORKS C/O: DON BOWEN
2. DEVELOPER INFORMATION:	4030 11TH STREET NORTH BEACH, MARYLAND 20714 443-624-2161
3. ENGINEER:	BAYLAND CONSULTANTS AND DESIGNERS, INC.
4. ENGINEER INFORMATION:	7455 NEW RIDGE ROAD, SUITE T HANOVER, MARYLAND 21076 ATTN: CHRISTOPHER STEPP PH: 410-694-9401
5. TAX MAP:	0200
6. PARCEL:	R.O.W.
7. LOTS:	N/A
8. DEED REF:	N/A
9. USE:	RESIDENTIAL
10. PROPERTY AREA:	R.O.W.
11. WATERSHED:	WEST CHESAPEAKE BAY

SHEET LIST

SHEET	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS & DEMOLITION PLAN
3	SITE PLAN
4	PUMP STATION DETAILS & SECTIONS
ME-1	MECHANICAL/ELECTRICAL COVER SHEET
ME-2	MECHANICAL/ELECTRICAL ENLARGED SITE PLANS
ME-3	MECHANICAL/ELECTRICAL DIAGRAMS AND DETAILS
ME-4	MECHANICAL/ELECTRICAL SPECIFICATIONS

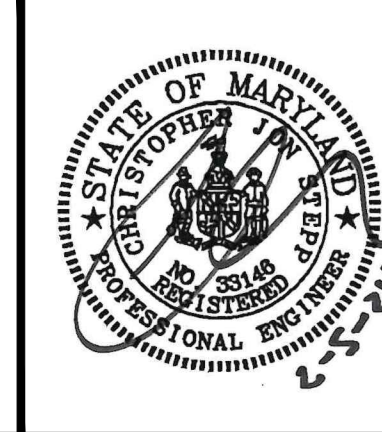
PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 33146, EXPIRATION DATE: 01/14/2025.

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www.baylandinc.com

BAYLAND JOB NO. 8_41402



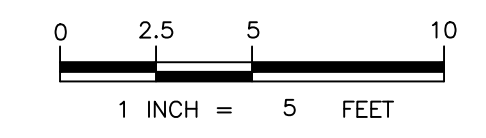
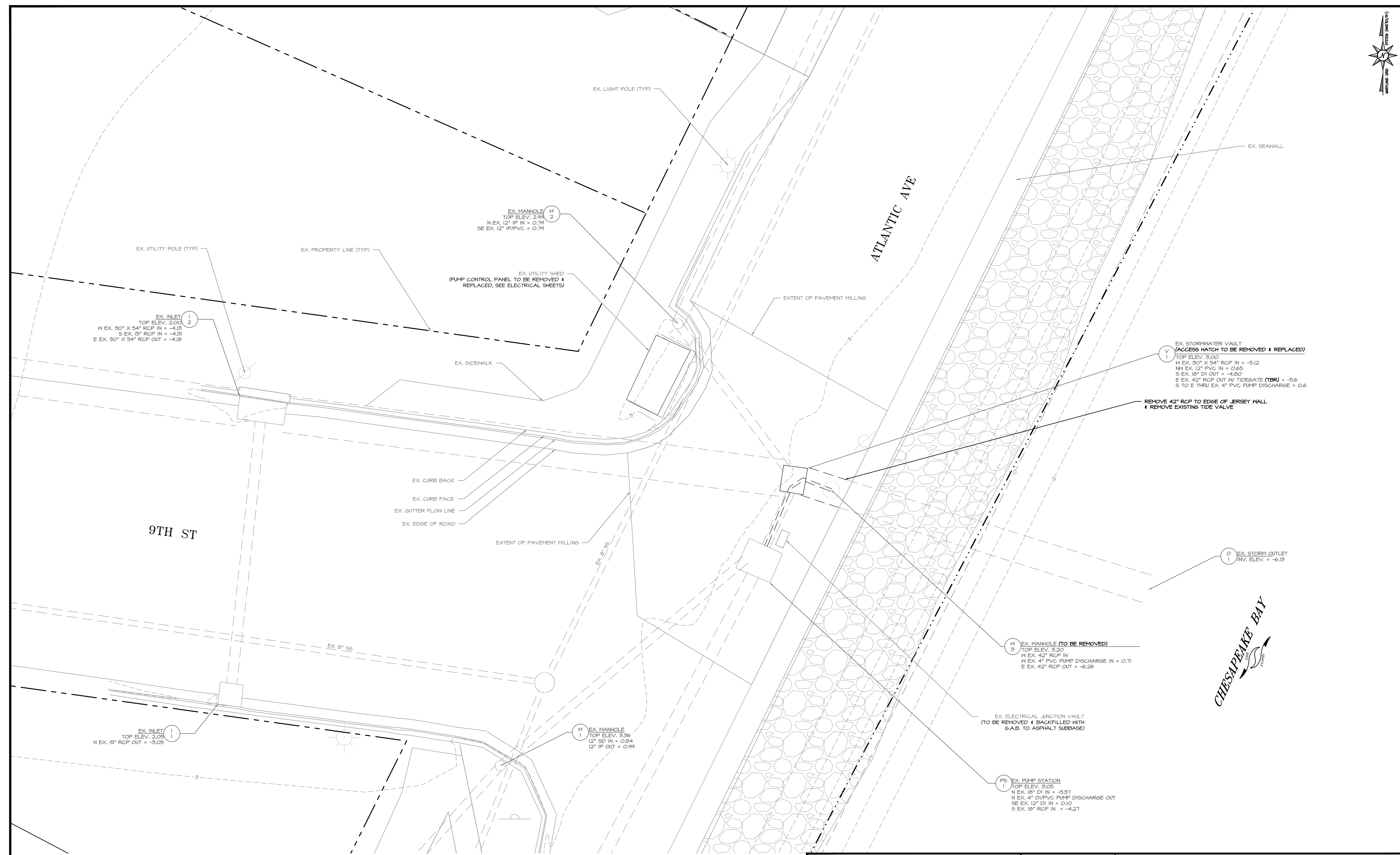
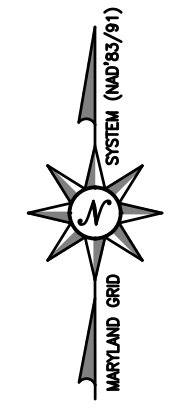
NORTH BEACH 9TH ST PUMP STATION UPGRADES COVER SHEET

REVISIONS		DATE	BY	DESCRIPTION

DRAWN BY: JWS	DATE: 02/05/24
CHECKED BY: MB	DATE: 02/05/24
DESIGNED BY: JWS	DATE: 02/05/24

SHEET NO. 1 OF 8

2024-01-14 02:00 PM 8_41402_C001



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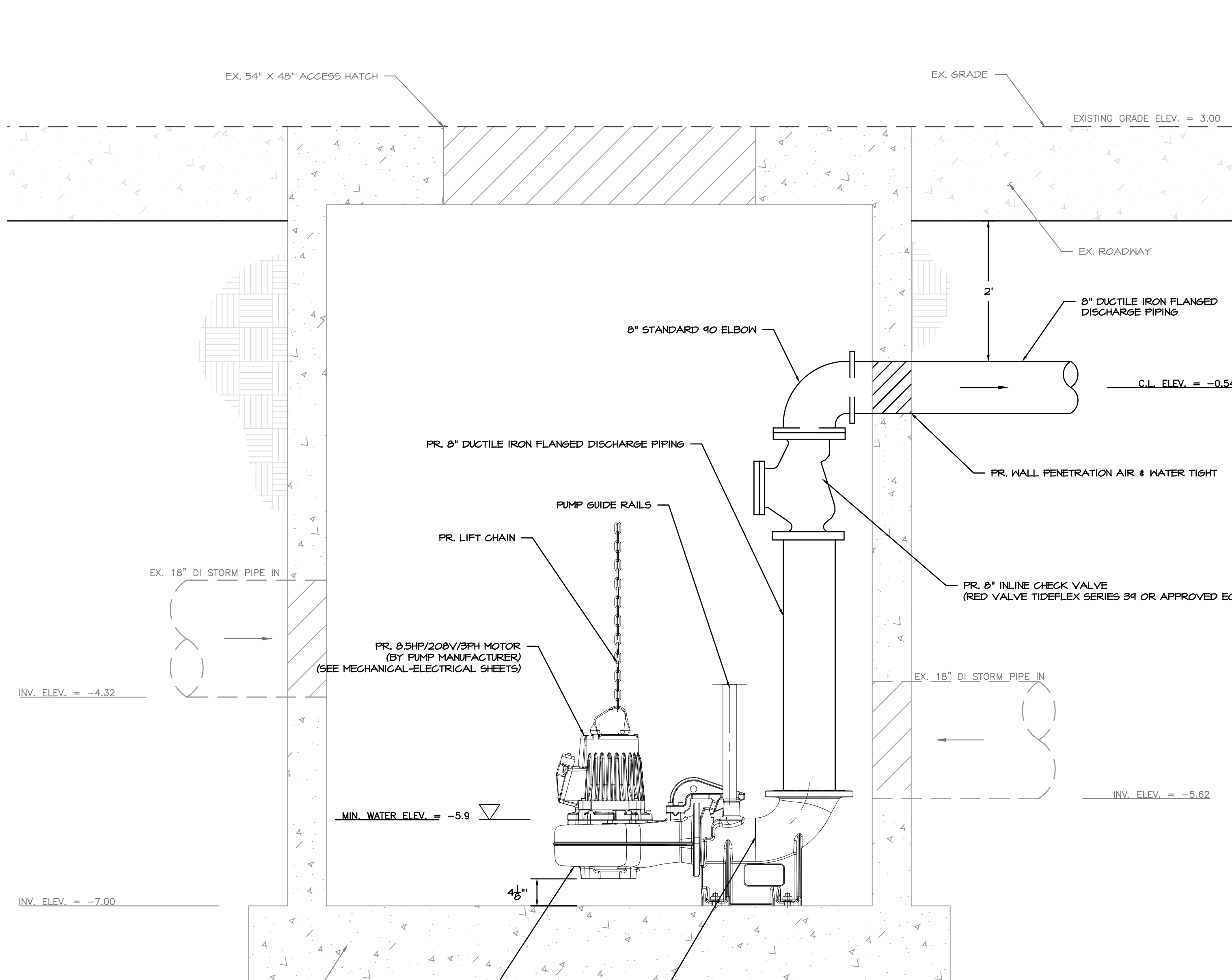
BAYLAND JOB NO. 8_41402



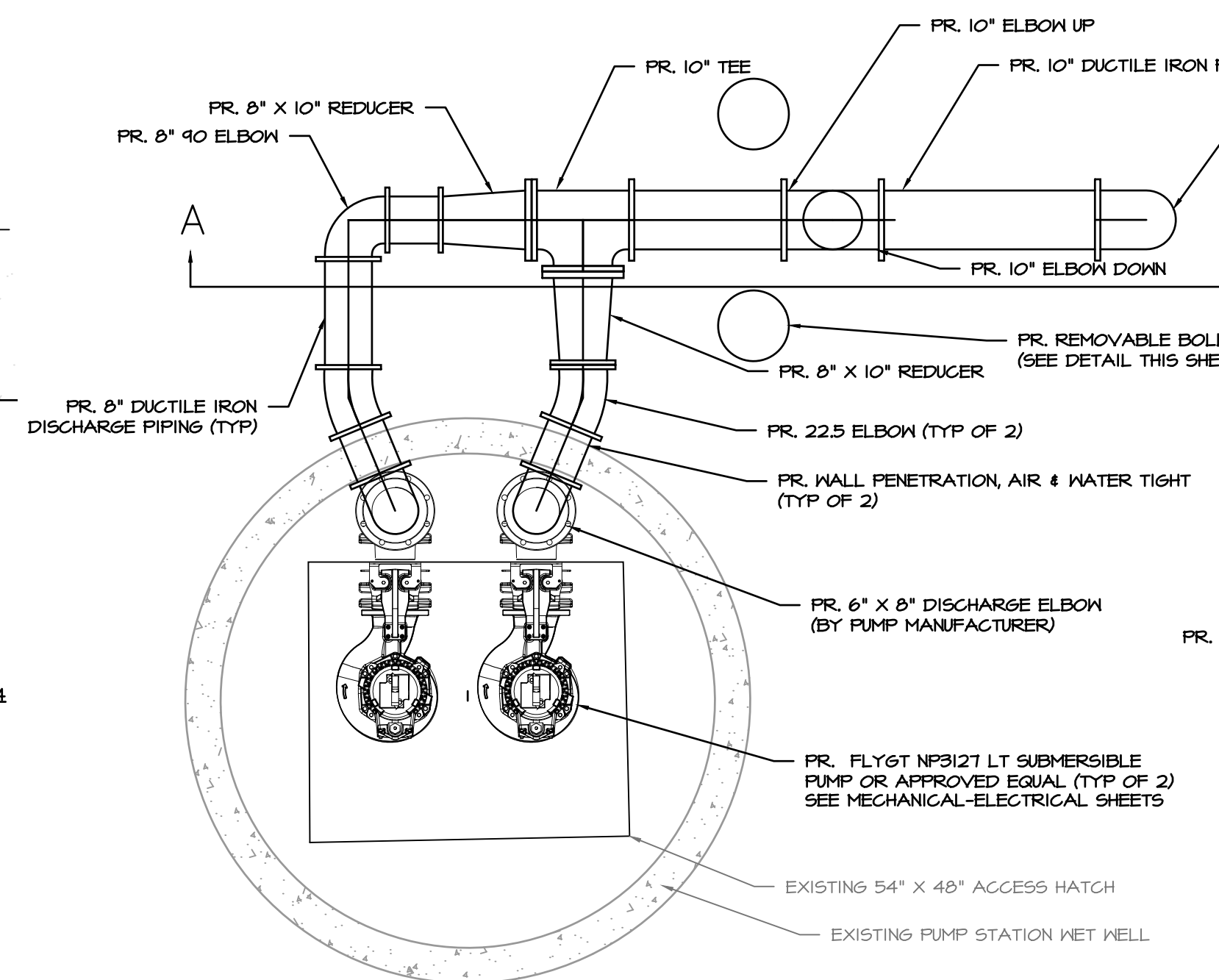
**NORTH BEACH 9TH ST
 PUMP STATION UPGRADES
 EXISTING CONDITIONS & DEMOLITION PLAN**

REVISIONS			SCALE: 1" = 5'	
DATE	BY	DESCRIPTION	DRAWN BY: JWS	DATE: 02/05/24
			CHECKED BY: MB	DATE: 02/05/24
			DESIGNED BY: JWS	DATE: 02/05/24
SHEET NO. 2 OF 8				

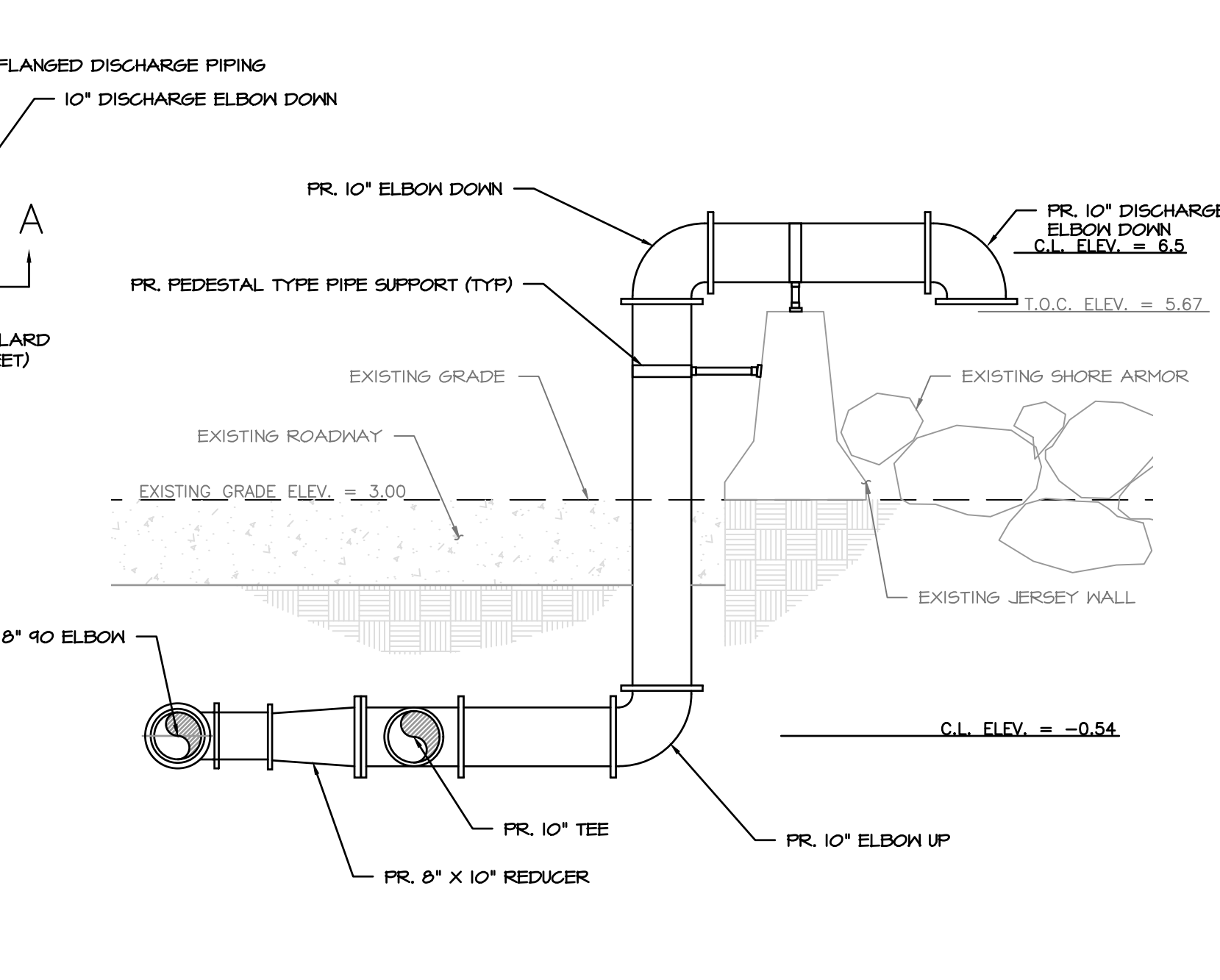
24-08-41402-NORTH BEACH 9TH ST PS1 PS2 PS3 PS4 PS5 PS6 PS7 PS8 PS9 PS10 PS11 PS12 PS13 PS14 PS15 PS16 PS17 PS18 PS19 PS20 PS21 PS22 PS23 PS24 PS25 PS26 PS27 PS28 PS29 PS30 PS31 PS32 PS33 PS34 PS35 PS36 PS37 PS38 PS39 PS40 PS41 PS42 PS43 PS44 PS45 PS46 PS47 PS48 PS49 PS50 PS51 PS52 PS53 PS54 PS55 PS56 PS57 PS58 PS59 PS60 PS61 PS62 PS63 PS64 PS65 PS66 PS67 PS68 PS69 PS70 PS71 PS72 PS73 PS74 PS75 PS76 PS77 PS78 PS79 PS80 PS81 PS82 PS83 PS84 PS85 PS86 PS87 PS88 PS89 PS90 PS91 PS92 PS93 PS94 PS95 PS96 PS97 PS98 PS99 PS100



PUMP STATION ELEVATION
SCALE: 1" = 1'



PUMP STATION PLAN
SCALE: 1" = 2'

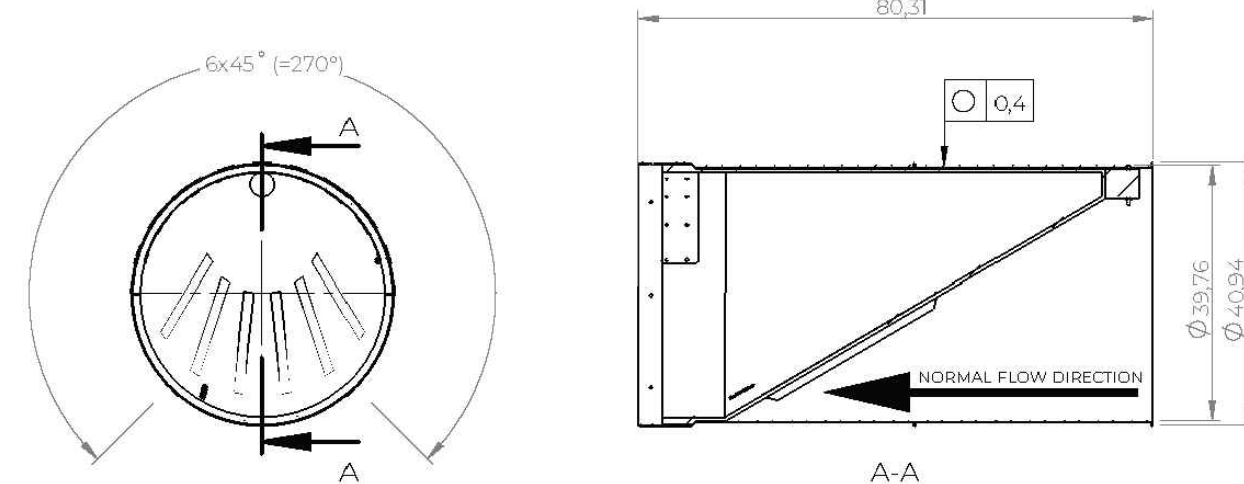


PUMP STATION DISCHARGE PIPING SECTION A-A
SCALE: 1" = 2'

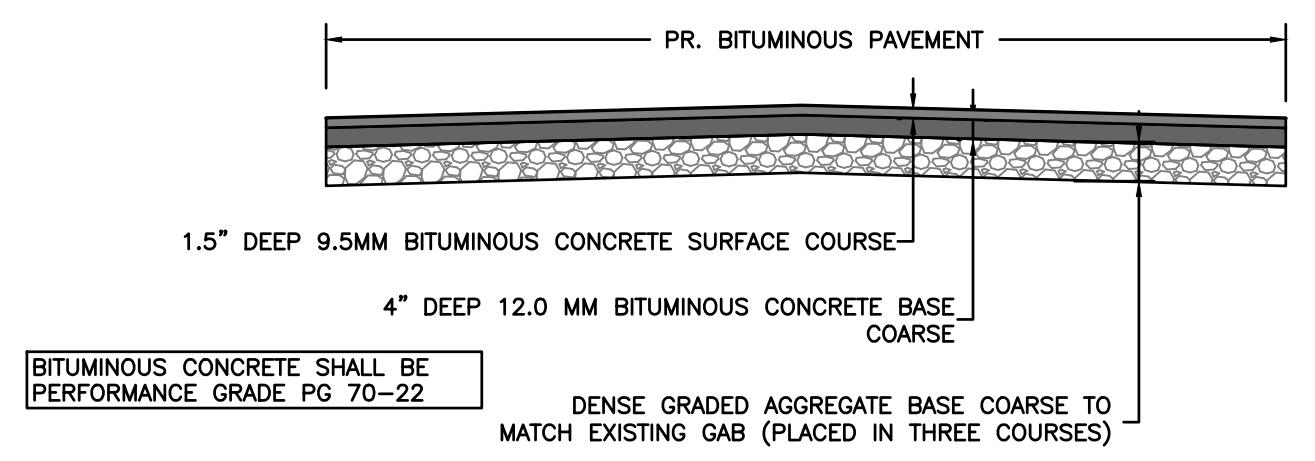
MATERIAL & EQUIPMENT SPECIFICATION

MATERIAL/EQUIPMENT	SPECIFICATION	SIZE	NOTES
SUBMERSIBLE PUMPS	FLYGT NP3127-LT SERIES OR APPROVED EQUAL, SEE SHEET ME-3		1100 GPM/2192 GPM SINGLE/DUAL PUMP OPERATION @ 16' HEAD
DISCHARGE CHECK VALVES	8" FLANGED INLINE CHECK VALVE EPOXY-COATED DUCTILE IRON BODY 316 STAINLESS STEEL FASTENERS	8"	RED VALVE TIDEFLEX SERIES 39 OR APPROVED EQUAL
DISCHARGE PIPING	CLASS 350 DUCTILE IRON PIPE, FLANGED CERAMAWRAP EPOXY COATING OR APPROVED EQUAL, 20-25 MILS	8" & 10" NOMINAL PIPE SIZE	DISCHARGE PIPING SHALL BE CERAMAWRAP EPOXY COATED (OR APPROVED EQUAL) SUITABLE FOR EXPOSURE TO SEAWATER. ALL FASTENERS SHALL BE 316 SS.
INLINE TIDAL CHECK VALVE	WAPRO WASTOP INLINE CHECK VALVE OR APPROVED EQUAL	42" NOMINAL SIZE	316 MARINE GRADE SS

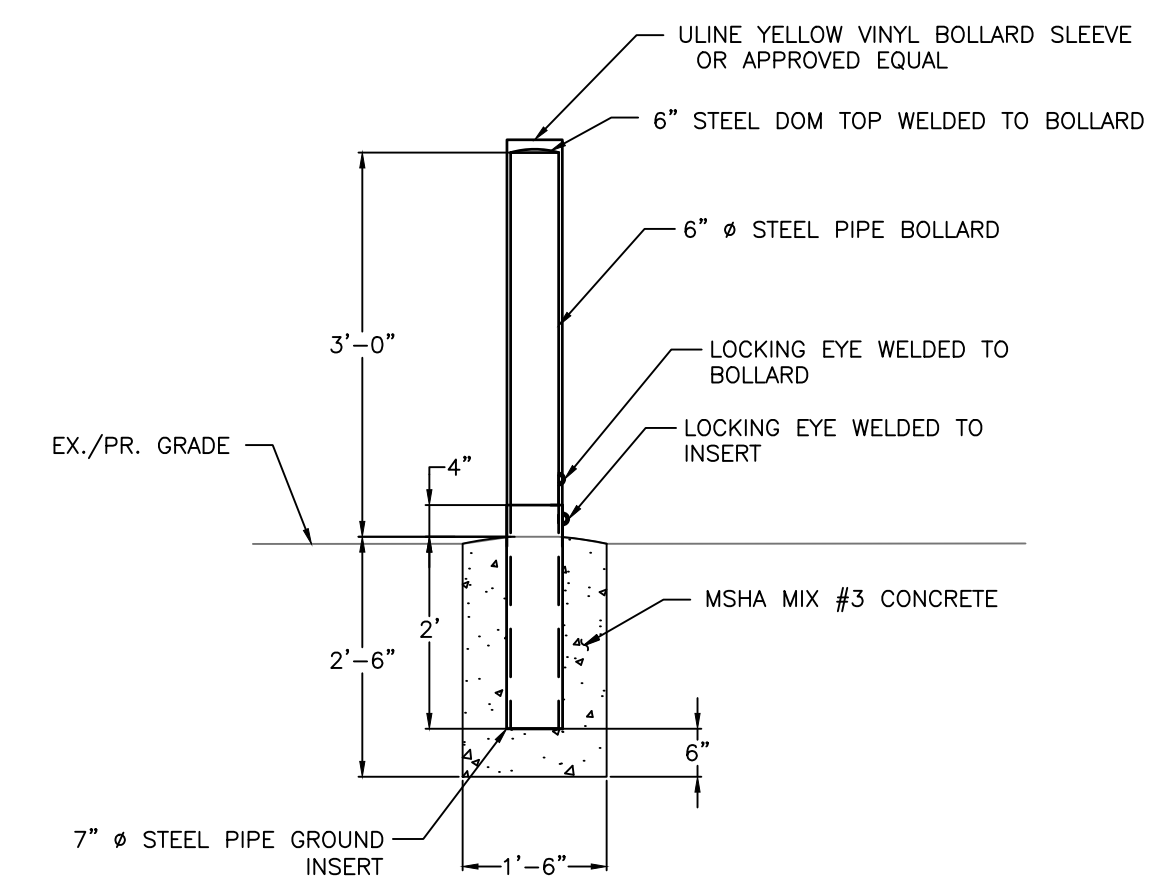
NOTES:
1. DESIGN PUMP OPERATING POINT IS 2192 GPM @ 16' HEAD WITH TWO PUMPS, AND 1100 GPM @ 16' HEAD WITH ONE PUMP RUNNING.



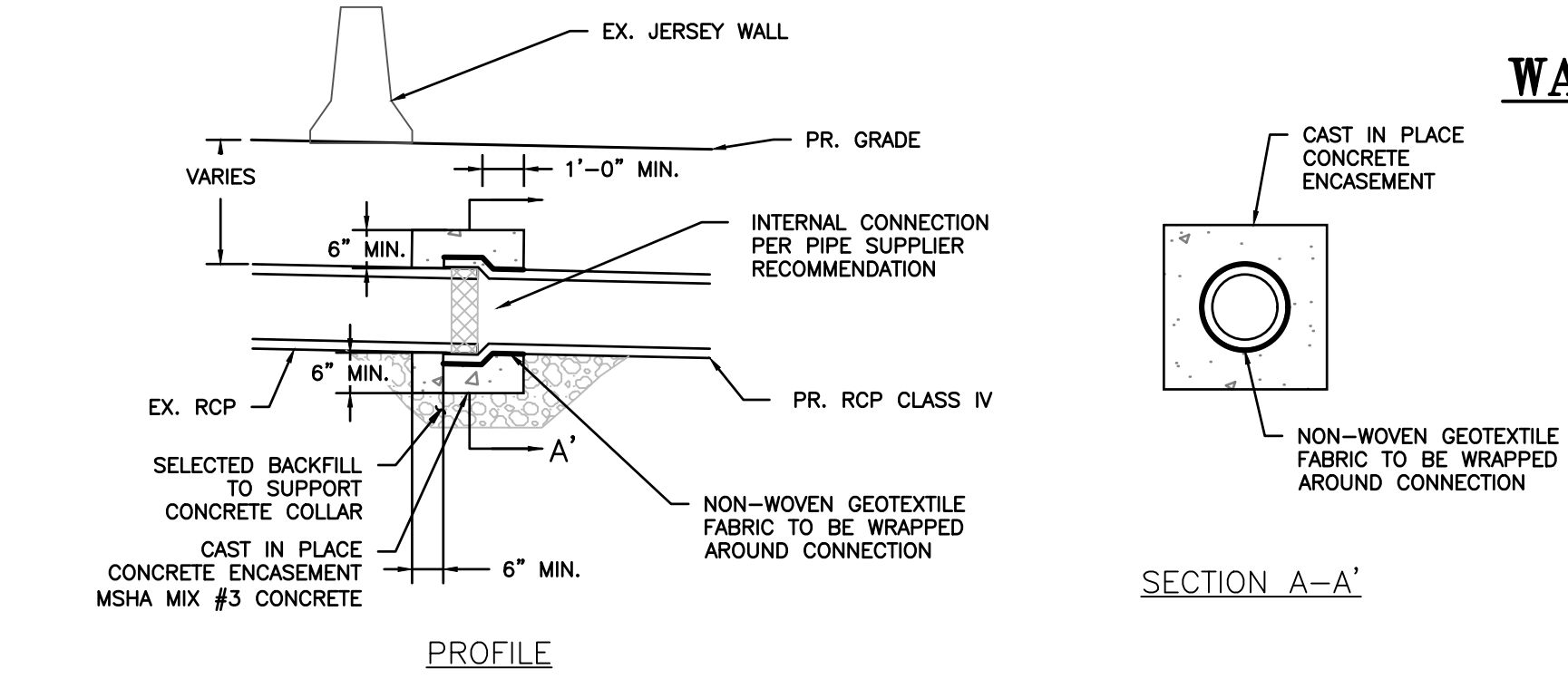
WAPRO 42" INLINE CHECK VALVE DETAIL
SCALE: NOT TO SCALE



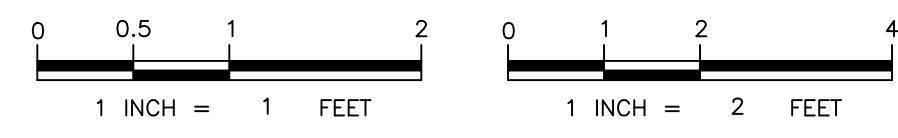
FULL DEPTH PAVEMENT REPAIR DETAIL
SCALE: NOT TO SCALE



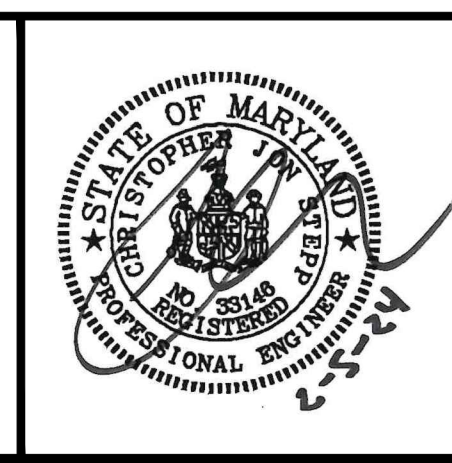
PROPOSED REMOVABLE BOLLARD DETAIL
SCALE: NOT TO SCALE



TYPICAL CONCRETE COLLAR DETAIL
SCALE: NOT TO SCALE



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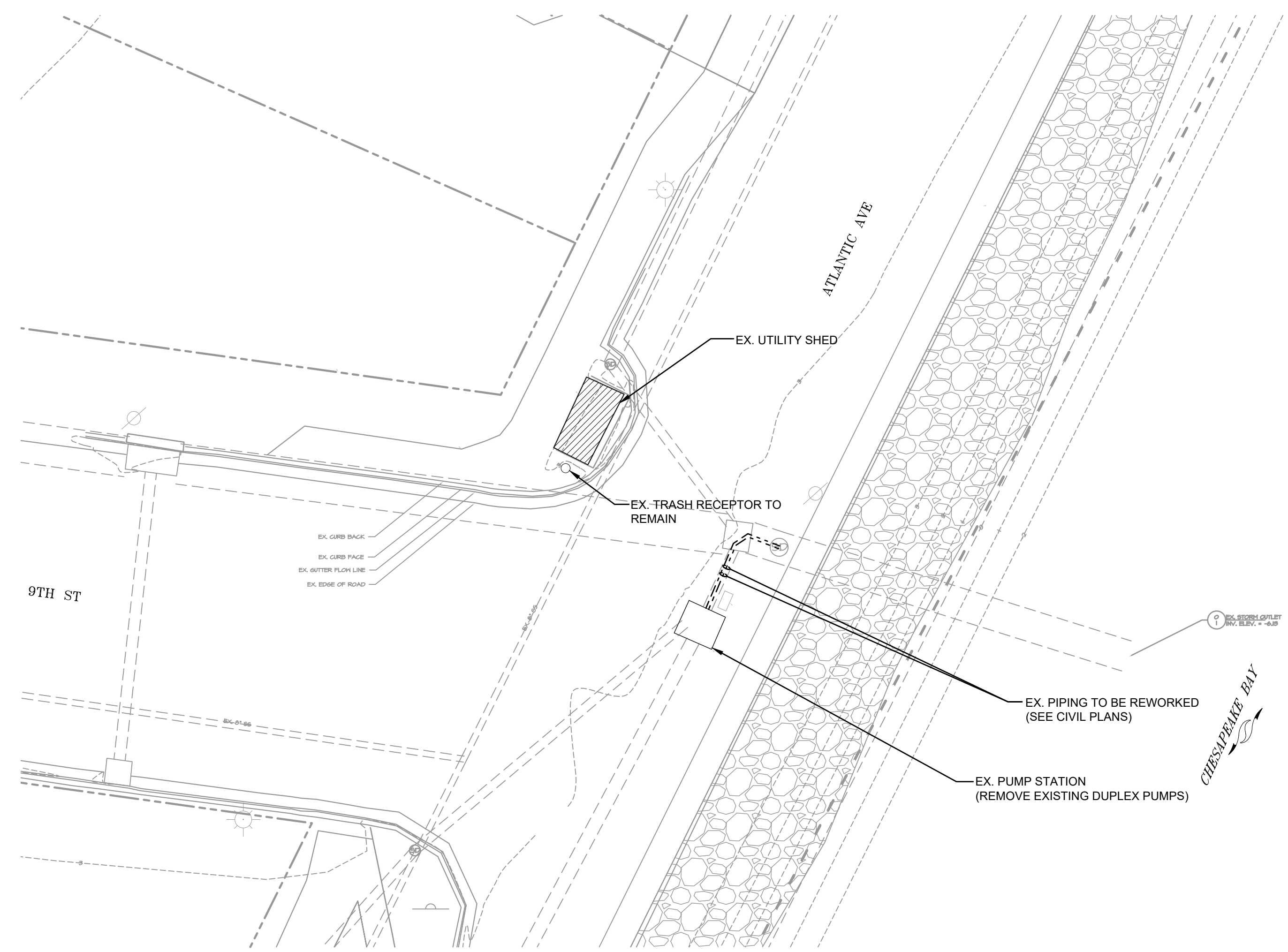


NORTH BEACH 9TH ST PUMP STATION UPGRADES PUMP STATION DETAILS & SECTIONS

REVISIONS		SCALE: AS SHOWN	
DATE	BY	DESCRIPTION	

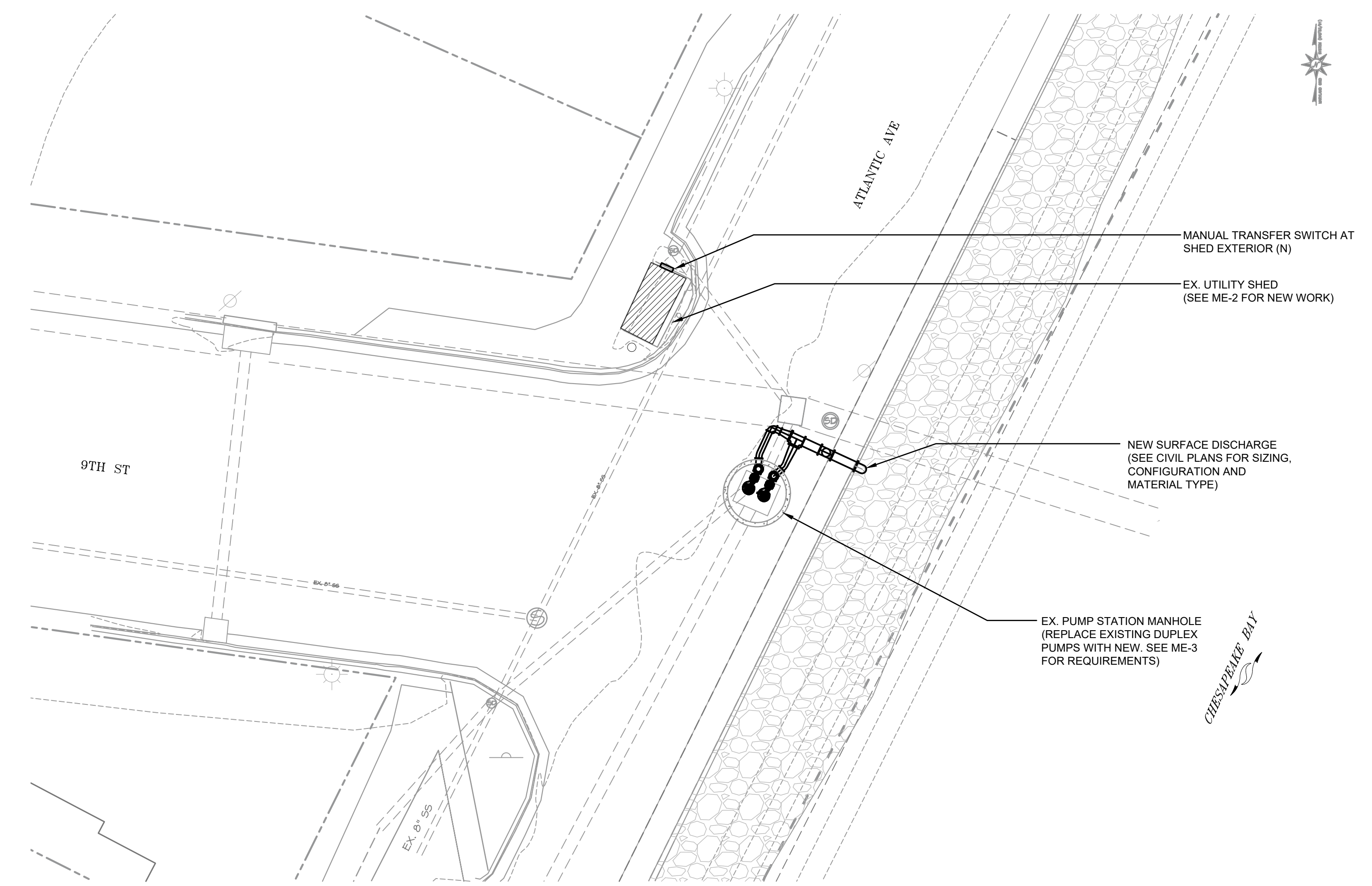
DRAWN BY: JWS DATE: 02/05/24
CHECKED BY: MB DATE: 02/05/24
DESIGNED BY: JWS DATE: 02/05/24

SHEET NO. 4 OF 8



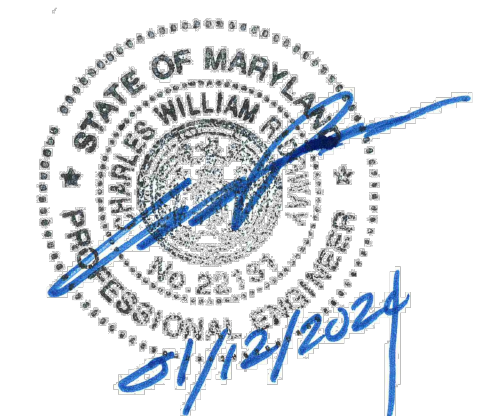
PUMPING STATION - DEMOLITION

SCALE: 1" = 10'-0"
 0 5' 10' 20'



PUMPING STATION - NEW WORK

SCALE: 1" = 10'-0"
 0 5' 10' 20'



"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 22131, Expiration Date: 10-13-2024."

PERMIT SET 01/12/2024

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**NORTH BEACH 9TH ST PUMP STATION
 MECH./ ELECT. ENLARGED SITE PLANS**

DATE		BY	DESCRIPTION	DRAWN BY: SRBR		DATE: 01/12/2024	
01/12/2024		SRBR	PERMIT SET	CHECKED BY: SRBR		DATE: 01/12/2024	
				DESIGNED BY: SRBR		DATE: 01/12/2024	
				ME-2			

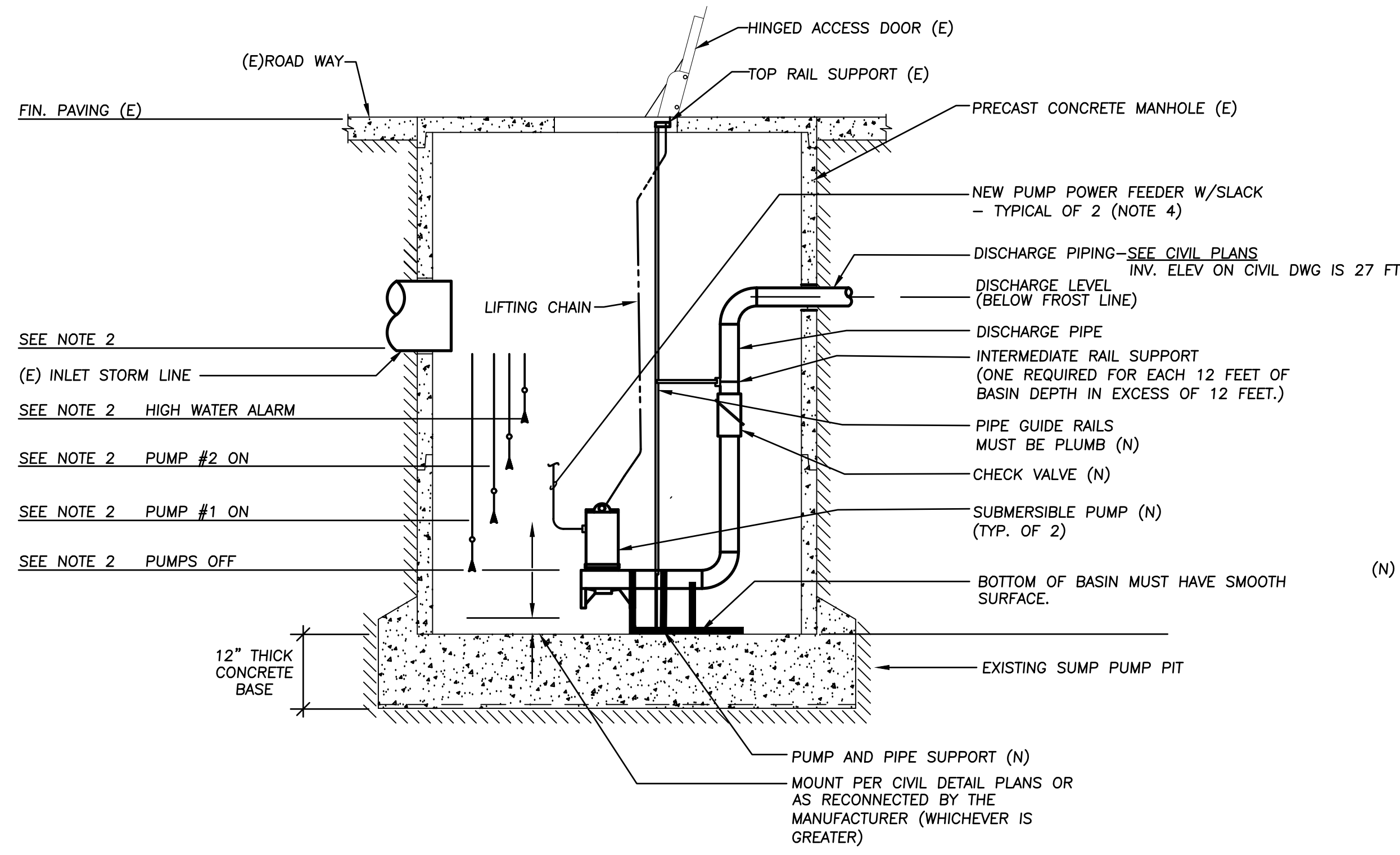
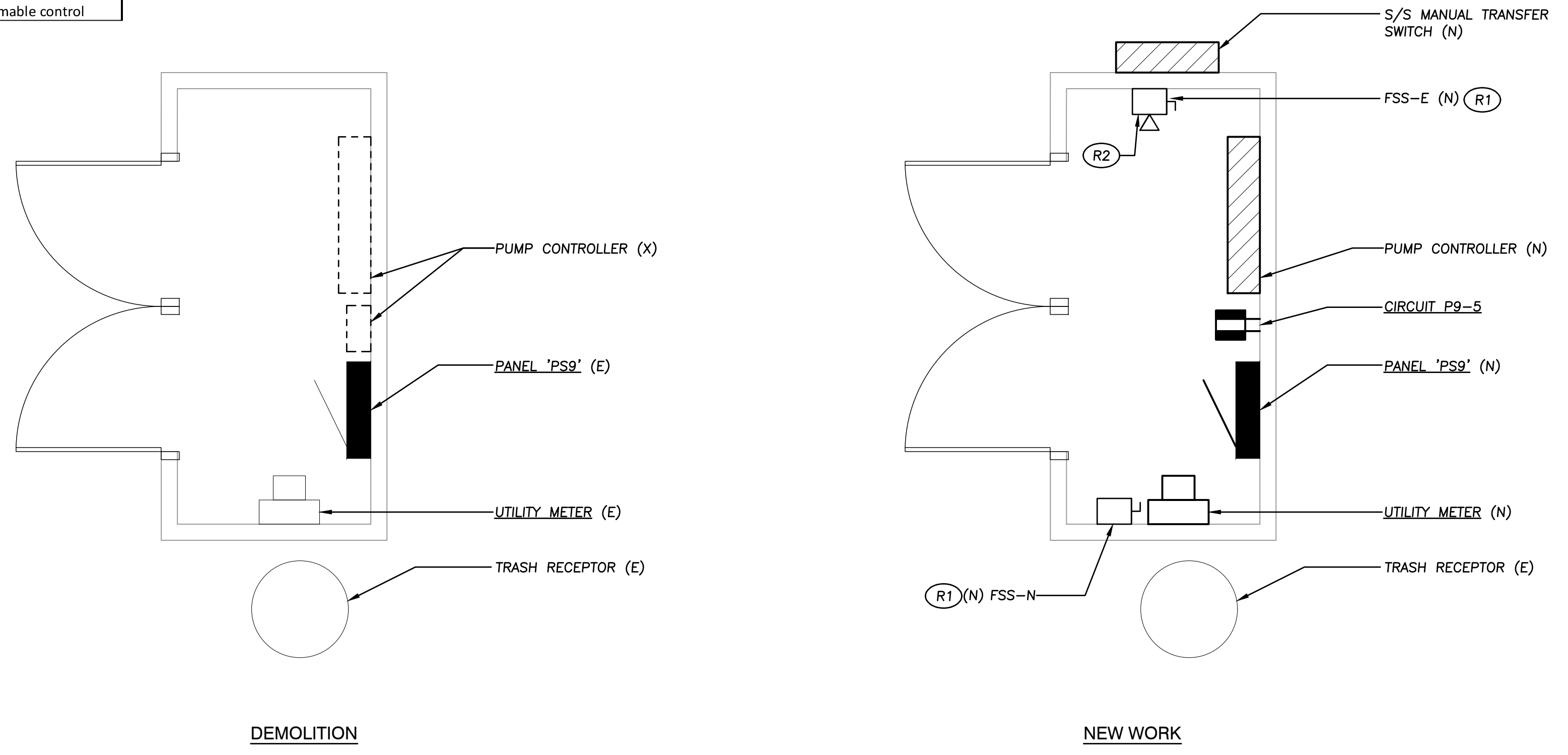
DUPLIX SUBMERSIBLE STORM WATER PUMP SCHEDULE														
Mark	Service	Total GPM	FT/HEAD	Discharge Pipe	Duty	Poles	HP	Maximum Speed	V-P-H	FLA	LRA	MOC	Manufacturer and Model No.	Remarks
9-1	9th Street Pump Station	1100/2192 (Note 4)	16'	6"	S1	4	8.5	1800 RPM	208-3-60	26.0	156.0	50	"Flygt" No. NP3127-LT Series	Duplex pumps to replace existing pumps at existing concrete street manhole. Provide complete with pump system to include power cable with controls wiring suitable for seawater exposure. Provide new programmable control
9-2	9th Street Pump Station	1100/2192 (Note 4)	16'	6"	S1	4	8.5	1800 RPM	208-3-60	26.0	156	50	"Flygt" No. NP3127-LT Series	Duplex pumps to replace existing pumps at existing concrete street manhole. Provide complete with pump system to include power cable with controls wiring suitable for seawater exposure. Provide new programmable control

- Notes:
- Pumps to replace existing duplex 5 HP pumps and controller (Remove existing pumps and controller & deliver to owner for future use).
 - Install new pumps per the civil plans and as recommended by the manufacturer. Provide new mounting brackets and piping (refer to the civil plans for additional information and details).
 - Provide new control package, wiring and devices for complete operating system (see pump controller notes).
 - GPM indicated is for single Pump operation/ Dual pump operation.

PANEL P9 (E)											
VOLTAGE		120 / 208		A.I.C.		EXISTING					
PHASE, WIRE		3 PH, 4 W		200 AMP MAIN		C/B					
		FED FROM		EXISTING UTILITY							
CKT	SERVING	CB	WIRE	KVA	HP	KVA	HP	TRIP	QTY	AWG	TRIP
1	EX LOAD (E)	1	20	1.0	A	3.1	3	6	3	50	PUMP 9-1 (E) (1)
3	EX LOAD (E)	1	15	1.0	B	3.1	1	10			GND
5	REC-UTILITY SHED (N)	1	20	2	12	0.2	C	3.1			
7	SPARE (N)	1	20			A	3.1	3	6	3	PUMP 9-2 (N) (2)
9	SPD (N) (3)	3	30	4	10	B	3.1				
11						C	3.1				
13											BUSSED SPACE
15	BUSSED SPACE					B					BUSSED SPACE
17	BUSSED SPACE					C					BUSSED SPACE
19	BUSSED SPACE					A					BUSSED SPACE
21	BUSSED SPACE					B					BUSSED SPACE
23	BUSSED SPACE					C					BUSSED SPACE
25	BUSSED SPACE					A					BUSSED SPACE
27	BUSSED SPACE					B					BUSSED SPACE
29	BUSSED SPACE					C					BUSSED SPACE
31	BUSSED SPACE					A					BUSSED SPACE
33	BUSSED SPACE					B					BUSSED SPACE
35	BUSSED SPACE					C					BUSSED SPACE
37	EX LOAD (E)	1	20	1.0	A						BUSSED SPACE
39	BUSSED SPACE					B					BUSSED SPACE
41	BUSSED SPACE					C					BUSSED SPACE

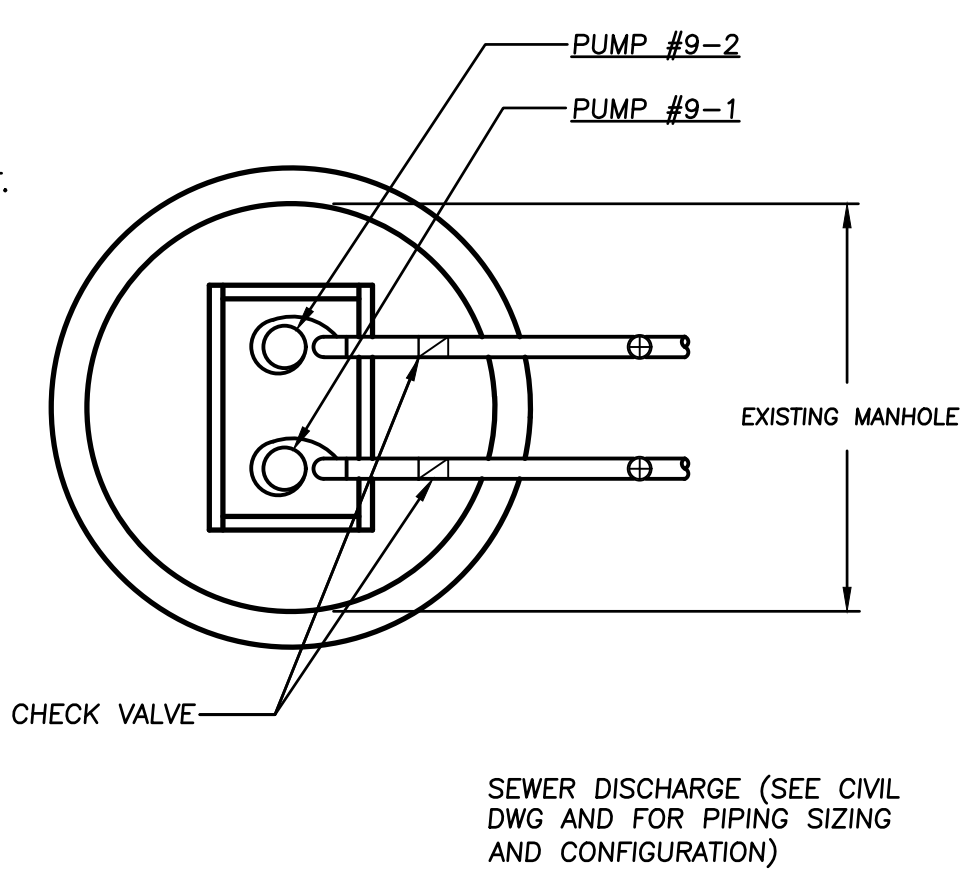
TOTAL DEMAND KVA (PER PHASE): A: 8.2 B: 7.2 C: 6.4 DESIGN KVA: 25 DESIGN AMPS: 68

- NOTES:
- PANEL SHALL BE MARKED TO INDICATE POWER SUPPLY DEVICE OR EQUIPMENT, IN ACCORDANCE WITH NEC 408.4(B).
 - RE-USE EXISTING CIRCUIT BREAKER FOR SEPARATE NEW CONNECTION TO NEW PUMP.
 - PROVIDE NEW CIRCUIT BREAKER FOR SEPARATE CONNECTION TO NEW PUMP.
 - PROVIDE NEW EXTERNAL SURGE PROTECTIVE DEVICE.



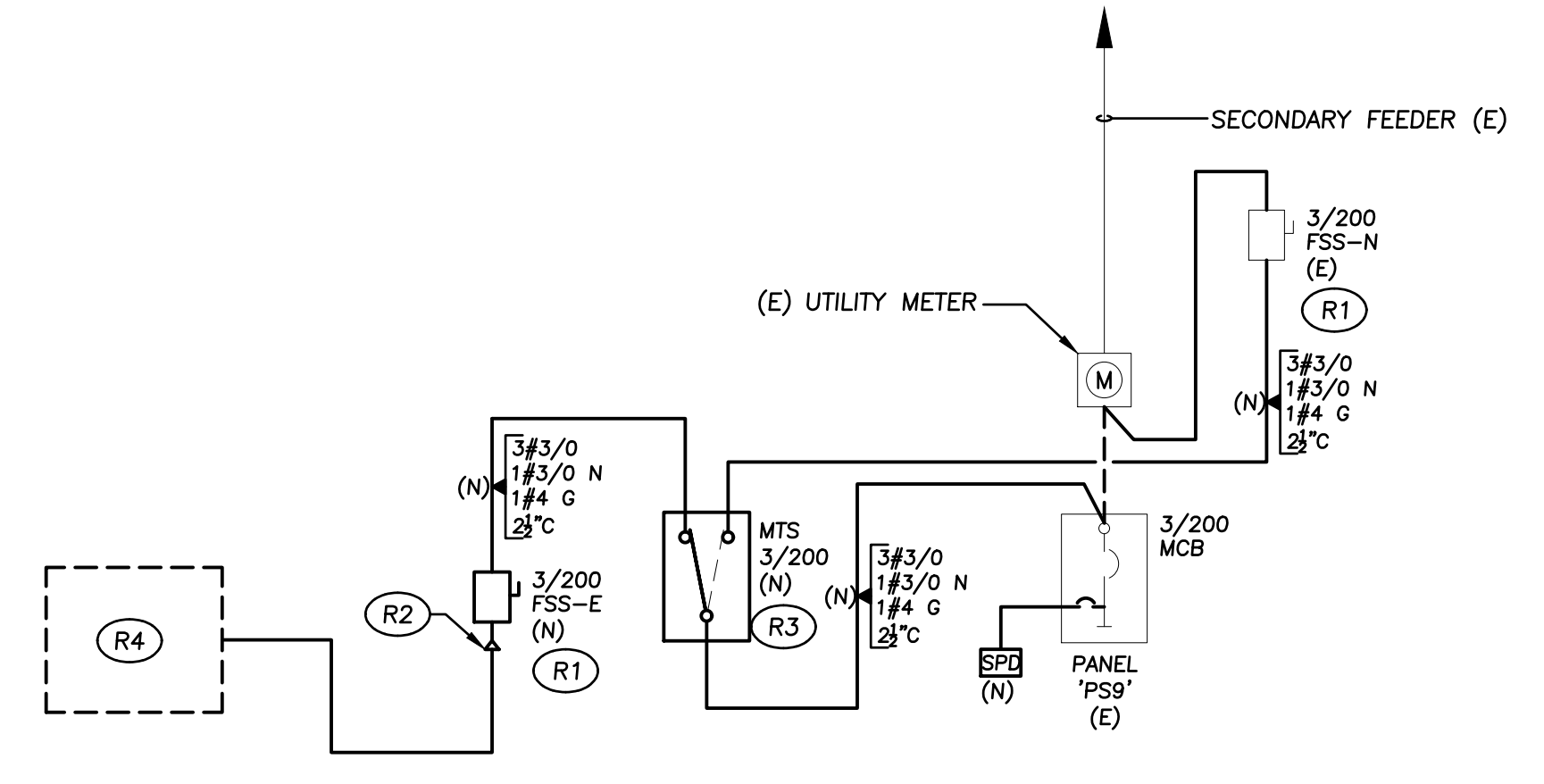
STORM WATER EJECTOR SUMP DETAIL

- NO SCALE
- NOTES:
- SEE CIVIL PLANS AND DETAILS FOR PUMP MOUNTING AND PIPING ARRANGEMENT.
 - PROVIDE NEW SUBMERSIBLE TRANSDUCER KPSI # 1LK-LC150020-01
 - PROVIDE UNIONS AT CONNECTION POINTS OF DISSIMILAR MATERIALS.
 - PROVIDE NEW CONDUCTORS TO PUMPS FOR EXISTING PANEL THROUGH EXISTING CONDUITS WITHOUT JUNCTION/SPLICE BOX. COPPER CONDUCTOR CABLE W/INSULATION SUITABLE FOR SUBMERSIBLE MARINE APPLICATION.



EXISTING UTILITY SHED

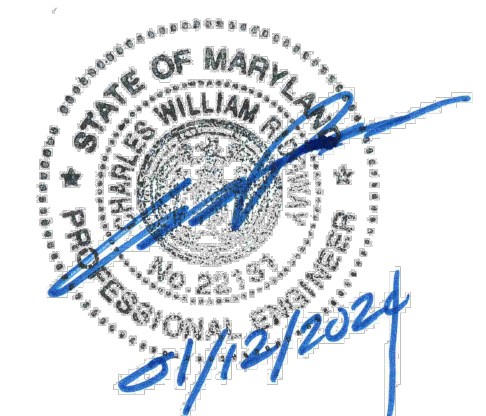
NO SCALE



POWER RISER DIAGRAM

NO SCALE

- PLAN NOTES**
- (R1) NEW NEMA 4X FUSED SAFETY SWITCH W/RK1 CURRENT LIMITING FUSES AND SOLID NEUTRAL (36" AFF TO BOTTOM)
 - (R2) PROVIDE WP CONNECTOR W/ REMOVABLE PLUG FOR EMERGENCY POWER FIELD CONNECTION TO TERMINALS (VERIFY CONNECTOR TYPE TO MATCH OWNERS PORTABLE GENERATOR PLUG CONFIGURATION).
 - (R3) NEW NEMA 4X MANUAL TRANSFER SWITCH ON OUTSIDE SHED WALL. (36" AFF TO BOTTOM).
 - (R4) PORTABLE GENERATOR BY OTHERS. (120/208V, 3PH, 4W).



"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 22131, Expiration Date: 10-13-2024."

PERMIT SET 01/12/2024



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REVISIONS			
DATE	BY	DESCRIPTION	
01/12/2024	SRBR	PERMIT SET	

DRAWN BY: SRBR	DATE: 01/12/2024
CHECKED BY: SRBR	DATE: 01/12/2024
DESIGNED BY: SRBR	DATE: 01/12/2024
ME-3	

ELECTRICAL SPECIFICATIONS

SECTION 16A – ELECTRICAL WORK

1. GENERAL:
 - A. The GENERAL and SPECIAL CONDITIONS listed under Division 1 shall govern this work where applicable.
 - B. The contractor shall furnish all labor, materials, equipment and services necessary for the construction of the complete functioning electrical system.
 - C. All labor and materials, although not specifically mentioned, but necessary for the completion of the work and the successful operation of the electrical systems, shall be as if specifically indicated.
 - D. Materials and equipment installed as part of the permanent installation shall be new unless otherwise indicated or specified, and shall be approved by the Underwriter's Laboratories, Inc., for installation in each particular case where standard's have been established.
 - E. All wiring shall be concealed in wall or above ceilings wherever possible. Exposed locations shall be pre-approved the architect prior to rough-in. Exposed wiring at finished areas shall be installed in conduit or surface metal raceway per architect approval. Exposed surfaces shall be primed and finish painted as directed.
2. SCOPE:
 - A. The Contractor shall provide all labor and materials required to install a completed system of electrical work as indicated on the drawings and/or herein specified. Work includes but is not limited to the following:
 1. Service equipment
 2. Power and lighting feeders, panelboard, safety switches.
 3. Receptacles and equipment connections
 4. Lighting system complete with lamps
 5. Final connections of mechanical equipment, electrical motors.
 6. Coordination with electric & telephone utility companies.
3. REGULATIONS AND CODE REQUIREMENTS:
 - A. All work shall conform to the requirements of the latest editions of the following codes, regulations and specifications.
 1. National Electrical Code (NFPA 70)
 2. National Fire Protection Association (NFPA 303)
 3. Underwriters Laboratories, Inc.
 4. Building Code
 5. Local and state requirements
4. CERTIFICATES:
 - A. The Contractor shall at his expense, have inspection made by the Electrical Inspection Department of the complete electrical installation and shall deliver certificate approval of the complete work.
5. PERMITS:
 - A. The Contractor shall obtain and pay for all permits and inspections required for the work as required by Authority Having Jurisdiction.
6. SHOP DRAWINGS:
 - A. The Contractor shall submit shop drawings (electronically) and manufacturer's catalog cuts showing all details of all equipment to be furnished.
7. GUARANTEE:
 - A. In addition to the guarantee obligations herein before specified in other divisions, the Contractor shall guarantee the complete electrical system installation free from all mechanical and electrical defects for the period of one year from date of final acceptance by the Owner.
8. DRAWINGS AND SPECIFICATIONS:
 - A. The drawings are intended to show the general arrangement of the outlets and equipment. Contractor shall check civil and piping plans and specifications so that he may coordinate his work with these trades.
 - B. All outlets shall be located uniformly with respect to beams, partitions, openings, etc., and the general locations shall be checked with the Engineer before installing. Should there be any interference between the electrical outlets and other trades, the contractor shall notify the Engineer so that the proper location may be decided upon. No outlets shall be installed in inaccessible places.
9. UTILITY COORDINATION:
 - A. The Contractor shall coordinate and obtain incoming utility service with the utility company at the start of the project and thru duration of the construction phase.
10. GROUNDING:
 - A. Grounding of all conduit, panelboards, boxes, cabinets and equipment shall conform to the requirements of the latest edition of the National Electric Code.
 - B. Ground connectors shall have rigid clamp jaws at water service. The grounding system shall be in strict accordance with Section 250 – 81 of the NEC.
 - C. All branch circuits shall include a bonded raceway or conductor. Equipment ground per NFPA 70, article 250 in addition to tick marks indicated on wiring.
 - D. Equipment insulated ground conductor, where indicated, shall be provided in addition to the bonded raceway or jacket (single ground source for non-metallic raceway)
 - E. Grounding for marine applications shall comply w/article 555.15 in addition to article 250 requirements.
11. DISTRIBUTION EQUIPMENT:
 - A. New panelboards shall be equivalent to square 'D' NQOD Panels with bolt-on circuit breakers and copper bus. All panels shall be labeled and provided with type written circuit directory.
 - B. Electric transformers must meet efficiency requirements of Table C405.7– 8.4.4 IECC 2015.
12. EQUIPMENT CONNECTIONS AND MOTOR STARTERS:
 - A. All power wiring shall be installed and connected under this section, unless already provided by on the equipment.

13. CONDUCTORS:
 - A. All secondary conductors shall be copper, 98% conductivity covered with 600 volt standard type seow flexible power cable; oil, sunlight, water and flame resistant. AWG size shall be per NFPA 70 or larger where indicated on the plans.
 - B. All wiring shall be in strict accordance with the latest edition of the National Electrical Code.
 - C. All wire number 8 and larger shall be stranded.
 - D. A color coding system shall be used throughout the building network of feeders and circuits and used as a basis of balancing the load within 10%.
 - E. Upon completion of branch circuit wiring, the Contractor shall check and adjust circuit breaker arrangements to assure system load balance is within +10% or –10% across all three phases.
14. WIRING METHODS:
 - A. Wiring shall be suitable and approved for marine applications type G-cable or a provided cable type.
 - B. Conduit and wire sizes shall be per NFPA 70 or larger as indicated on the plans.
15. OUTLET BOXES:
 - A. Boxes shall be gasketed & suited for marine & exposed applications.
 - B. Provide covers for all boxes.
16. PULL-BOXES AND JUNCTION BOXES:
 - A. Pull-boxes shall be provided as shown or wherever required to facilitate pulling of wires and cables, or as junction points. All such boxes shall be installed in accessible locations.
17. WIRING DEVICES:
 - A. Receptacles & switches to be suited for marine & exposed applications.
 - B. Receptacle configurations as noted on pedestal details.
18. LIGHTING FIXTURES:
 - A. The Contractor shall provide all labor and materials, equipment and services necessary for and incidental to the installation of all lighting fixtures.
 - B. Provide a fixture for each pedestal and fire/rescue station shown on the drawings. Fixtures shall be complete with lamps, lenses, glassware, mounting brackets, etc., for a complete assembly. All fixtures shall be UL listed.
 - C. All lighting shall be L.E.D. type and with integral photocell control (yellow as selected by owner).

SECTION 16B – DEMOLITION WORK

1. SCOPE:
 - A. Material and equipment made superfluous by reason of the new work shall become the property of the contractor and shall be removed from the site unless the equipment is specifically indicated to be retained by the Owner, in which case the contractor shall disconnect & remove the equipment and return to the Owner.
 - B. The contractor shall furnish all labor, material and equipment necessary to complete the demolition work.
 - C. The work shall include removal and relocation of existing equipment as shown on the drawings.
2. SITE VISIT:
 - A. Prior to preparing the bid, the contractors shall visit the site and familiarize themselves with all existing conditions. Make all necessary investigations as to locations of utilities and all other matters which can affect the work. No additional compensation will be made to the contractor as a result of failure to get familiar with the existing conditions under which the work must be performed.
3. OUTAGES:
 - A. All electrical/telephone service work which will interfere with the normal use of occupied areas in any manner, shall be done at such times as shall be mutually agreed upon by the Contractor and the Owner.
 - B. Unless otherwise specified, outages any services, required for the performance of this contract and affecting areas other than the immediate work area shall be scheduled at least ten (10) days in advance. All such outages shall be performed on other than normal duty hours.
 - C. The Contractor shall include in his price the cost of all premium time required for outages and other work which interferes with the normal use of other building. Which will be performed, in most cases, during other than normal work time and at the convenience of the Owner.
4. CUTTING AND PATCHING:
 - A. Cutting and patching associated with the work in the existing structure shall be performed in a neat and workmanlike manner. Existing surfaces, which are damaged by the Contractor shall be repaired or replaced with new materials.
 - B. Structural members shall not be cut or penetrated. Holes cut through concrete and/or masonry to accommodate non-percussive methods.
 - C. Patching of areas, disturbed by installation of new work and/or required demolition, shall match existing adjacent surface as to material texture and color.

DUPLEX PUMP CONTROLLER

9TH STREET PUMP STATION

PART I – GENERAL:

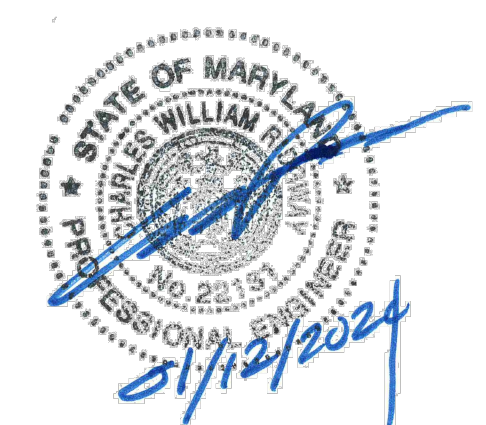
- A. REMOVE EXISTING PUMP CONTROLLERS.
- B. REUSE EXISTING FLOAT CONTROLS UNDER BASE BID. REPLACE WITH NEW UNDER ALTERNATE COST.
- C. PROVIDE NEW DUPLEX STORM WATER PUMP CONTROLLER WITH NEMA 4X ENCLOSURE AS REQUIRED FOR A COMPLETE OPERATING PUMP STATION SYSTEM.

PART II – PRODUCT:

- A. CONVERSION TO SIEMENS LC-150 MODEL 1LK-LC 150020-01 SERIES. UNIT BASED ON PRIMARY TRANSDUCER CONTROL WITH FLOAT BASED SECONDARY CONTROL.
- B. THE CONTROLLER TO MONITOR WET WELL LEVELS AS FOLLOWS:
 1. LOW LEVEL – PUMPS OFF
 2. LEVEL 1 – LEAD PUMP ON
 3. LEVEL 2 – LAG PUMP ON
 4. HIGH WATER ALARM
- C. PROVIDE DUAL POWER CONNECTION (SEE PLANS FOR PLANS FOR PUMP HP RATINGS, VOLTAGE CLASS, AND OVERCURRENT PROTECTION REQUIREMENTS).
- D. PROVIDE PILOT DEVICES AND LABELING PER NORTH BEACH STANDARDS (TO MATCH 5TH STREET CONTROLLER CONFIGURATION AND LABELS).
- E. PROVIDE DRY CONTACTS FOR ALARMS WIRED TO TERMINAL BLOCKS AND CONNECTED TO MISSION M153 RTU (REMOVE TERMINAL UNIT).
- F. MOUNT RTU IN PANEL WITH 1 YEAR CELLULAR SERVICE AND ANTENNA. INTEGRATE INTO THE EXISTING NORTH BEACH MISSION WEBSITE.
- G. PROVIDE MODEL A1000i SUBMERSIBLE PRESSURE TRANSDUCER WITH CABLE ASSEMBLY AND LOWER SENSING, BREATHER BAG AND SUSPENSION CABLE.
- H. PROVIDE REPLACEMENT FLOATS AND SWITCH CONTROL TO REPLACE EXISTING UNDER ALTERNATE COST. FLOATS TO BE MERCURY FREE INTERNALLY WEIGHTED WITH CABLE SUSPENSION. REUSE AND INTERFACE EXISTING FLOAT CONTROL UNDER BASE BID.
- I. PROVIDE PROGRAMMABLE TIME CLOCK CONTROL TO ALTERNATE LEAD LAG PUMP OPERATION FOR EQUAL DUTY CYCLE.

PART III – EXECUTION:

- A. PROVIDE 5 DAY ON SITE START-UP TO INCLUDE READINESS VERIFICATION, TRAINING, AND PRODUCT MANAGEMENT.
- B. PROVIDE PUMP PROTECTION MODULES AND INTEGRATE INTO PANEL. PROTECTION SETTING AS REQUIRED BY PUMP SUPPLIER.
- C. PROVIDE MOUNTING BRACKETS FOR CONTROLLER CABINET AT EXISTING SHED AND INSTALL PANEL COMPLETE WITH ALL REQUIRED COMPONENTS.
- D. PROVIDE POWER AND CONTROLLER WIRING AS REQUIRED FOR COMPLETE OPERATING SYSTEM.
- E. PROVIDE TVSS PROTECTION (COORDINATE WITH ELECTRICAL WORK).



"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 22131, Expiration Date: 10-13-2024."

PERMIT SET 01/12/2024

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