

N. ARUNDEL SWM CT-SPLASH PADS

ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

7888 CRAIN HWY, GLEN BURNIE, MD 21061

PROJECT NO.: P570000 CONTRACT NO.: P570003
 BID SET 07/01/2024

SYMBOLS & TAGS LEGEND

TAG	DESCRIPTION
(101A)	DOOR TAG
CASEWORK SERIES	CASEWORK TAG AS OUTLINED IN THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS
(1)	SPECIALTY EQUIPMENT TAG
(1 A)	COLUMN LINE DESIGNATION TAG
0'-0"	LEVEL ELEVATION TAG
N	NORTH ARROW TAG T = TRUE NORTH P = PROJECT NORTH
ROOM 101	ROOM NAME & NUMBER TAG
A101	SECTION TAG
A101	CALLOUT / DETAIL
0'-0"	SPOT ELEVATION TAG
1	DRAWING TITLE / DRAWING SCALE
CEILING TAG	CEILING TAG
59	PARTITION TAG
7	MATERIAL TAG
12	WINDOW TAG
6	ROOF SLOPE ANNOTATION
A101	ELEVATION TAG
NEW CONSTRUCTION	SPECIFIC NOTE
DEMOLITION	

COMMON ABBREVIATIONS

THIS LIST IS A GUIDE TO ABBREVIATIONS WHICH MAY BE USED IN THESE DOCUMENTS. ABBREVIATIONS NOT LISTED MAY ALSO BE USED.

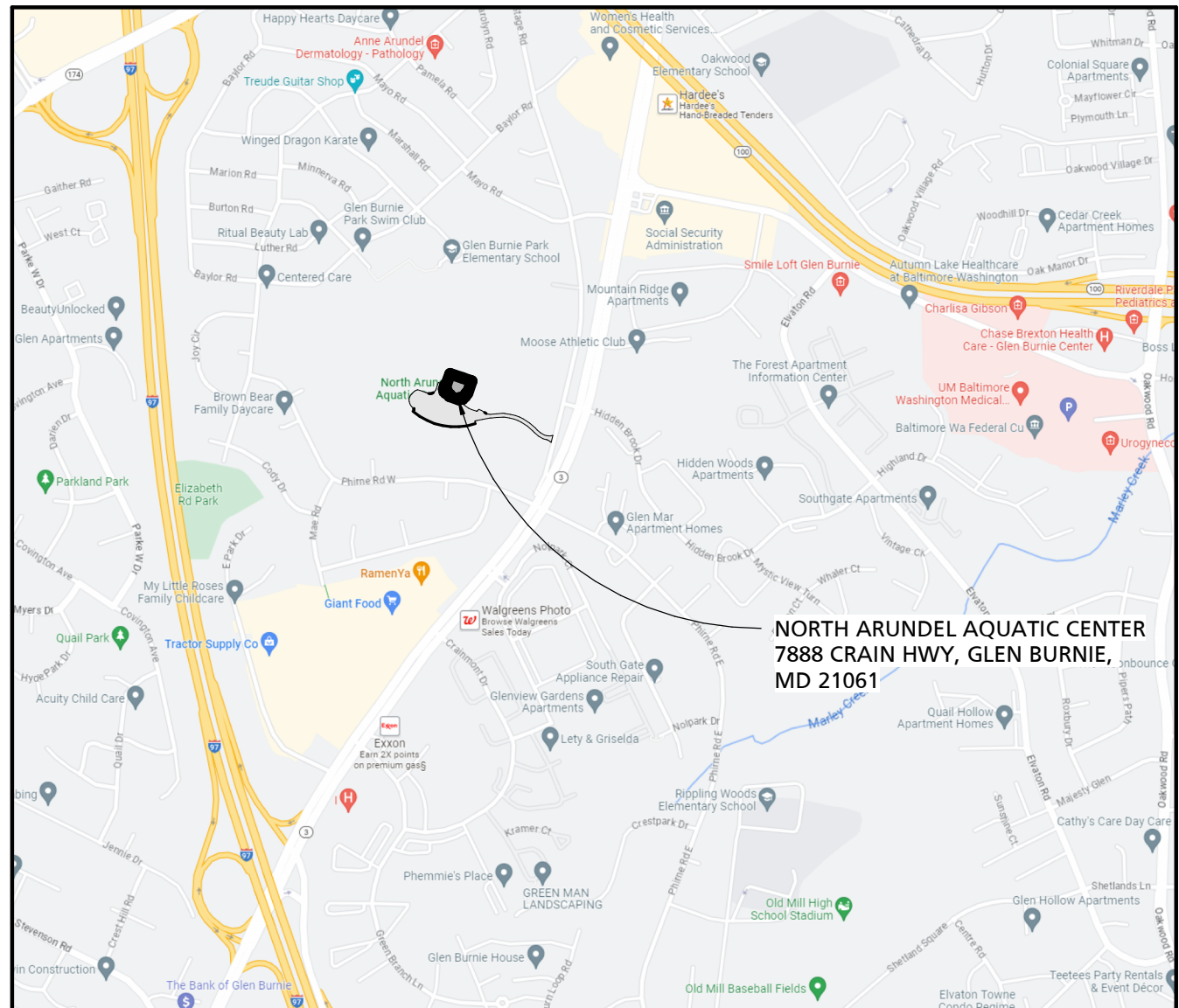
A	ANCHOR BOLT	FIN	FINISH	PSF	POUNDS PER SQUARE FOOT
ABV	ABOVE	FIN FL	FINISHED FLOOR	PSI	POUNDS PER SQUARE INCH
ACoust	ACOUSTICAL	FL	FLOOR	PT	PRESSURE TREATED
ACT	ACOUSTIC CEILING TILE	FLEX	FLEXIBLE	PTD	PAINTED
AFF	ABOVE FINISH FLOOR	FLUOR	FLUORESCENT	PVC	POLYVINYL CHLORIDE
AHJ	AUTHORITY HAVING JURISDICTION	FRD	FOUNDATION	PVMT	PAVEMENT
ALUM	ALUMINUM	FPM	FEET PER MINUTE	PWT	PREFABRICATED WOOD TRUSS
AP	ACCESS PANEL	FRT	FIRE RETARDANT TREATED	R	RADIUS
APPROX	APPROXIMATELY	FSK	FOIL SCRIM KRAFT	RCP	REFLECTED CEILING PLAN
ARCH	ARCHITECTURAL	FT	FEET, FOOT	REINFORCING	REINFORCED
B	BOTTOM	FTG	FOOTING	RES	RESINOUS
B.C.	BOTTOM CHORD	G	GAGE, GAUGE	REQD	REQUIRED
BLK	BLOCK	GA	GAGE, GAUGE	REV	REVISION
BLDG	BUILDING	GALV	GALVANIZED	RGD	RIGID
BLKG	BLOCKING	GL	GLASS, GLAZING	RIM	ROOM
BLKHD	BULKHEAD	GND	GROUND	RO	ROUGH OPENING
BM	BEAM	GRTG	GRATING	RST	REINFORCING STEEL
B.O.	BOTTOM OF	GWB	GYPSUM WALL BOARD	S	SMART BOARD
BOD	BASIS OF DESIGN	H	HIGH / HEIGHT	SCD	SEE CIVIL DRAWINGS
BOT	BOTTOM	HC	HANDICAPPED	SCHED	SCHEDULE
B.R.	BULLET RESISTANT	HD	HEAD	SD	STORM DRAIN
BRNG	BEARING	HM	HOLLOW METAL	SE	SEE ELECTRICAL DRAWINGS
C	CENTER LINE	HORIZ	HORIZONTAL	SEC	SECTION
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	HR	HEIGHT	SF	SQUARE FOOT
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	HT	HEIGHT	SI	SQUARE INCH
CFLS	COUNTER FLASHING	ID	INSIDE DIAMETER	SIM	SIMILAR
CJ	CONTROL JOINT	IN	INCH	SLP	SLOPE
CL	CLOSET	INFO	INFORMATION	SMD	SEE MECHANICAL DRAWINGS
CLG	CEILING	INSUL	INSULATION	SNCL	SPECIAL
CMU	CONCRETE MASONRY UNIT	J	JUNCTION BOX	SPEC	SPECIFICATIONS
CND	CONDUIT	JB	JUNCTION BOX	SPLY	SUPPLY
COL	COLUMN	JMB	JOIST	SQ	SQUARE
COOR	COORDINATE	JST	JOIST	SS	STAINLESS STEEL
CONC	CONCRETE	JT	JOINT	SSD	SEE STRUCTURAL DRAWINGS
CONSTR	CONSTRUCTION	LG	LONG	ST	STANDARD
CONT	CONTINUOUS	LL	LIVE LOAD	STD	STEEL
CT / CT	CERAMIC TILE	LSC	LIFE SAFETY CODE	STL	STORAGE
CPT	CARPET / CARPET TILE	LTG	LIGHTING	STRUCT	STRUCTURAL
CTS	COUNTERSUNK	M	MACHINE	SURF	SURFACE
CU	CUBIC	MATL	MATERIAL	SUSP	SUSPENDED
CU FT	CUBIC FOOT	MAX	MAXIMUM	SW	SWITCH
CU YD	CUBIC YARD	MBT	MARBLE THRESHOLD	SYS	SYSTEM
D	DEEP / DEPTH	MECH	MECH	T	TOP AND BOTTOM
DEG	DEGREE	MEP	MECHANICAL / ELECTRICAL / PLUMBING	T.B.	TACK BOARD
DIA	DIAMETER	MFR	MANUFACTURER	T.B.D.	TO BE DETERMINED
DIM	DIMENSION	MH	MANHOLE	TEMP	TEMPERATURE
DLD	DEAD LOAD	MIN	MINIMUM	THK	THICK
DMPR	DAMPER	MO	MASONRY OPENING	THRES	THRESHOLD
DN	DOWN	MSNRY	MASONRY	T&G	TONGUE & GROOVE
DR	DOOR	M.T.	METAL THRESHOLD	TO	TOP OF
DLS	DOWNSPOUT	MTL	METAL	TOB	TOP OF BEARING POINT
DTL	DETAIL	MTD	MOUNTED	TOC	TOP OF CONCRETE
DWG	DRAWING	NA	NOT APPLICABLE	TOF	TOP OF FOOTING
E	EACH	NIC	NOT IN CONTRACT	TOM	TOP OF MASONRY
EIFS	EXTERIOR INSULATION AND FINISHING SYSTEM	NO	NUMBER	TOP	TOP OF PAVEMENT, PARAPET
ELEC	ELECTRICAL	NTS	NOT TO SCALE	TOS	TOP OF STEEL
ELEV	ELEVATION	O	ON CENTER	TRTD	TREATED
ELMA	ELEVATOR MACHINE ROOM	OD	OUTSIDE DIAMETER	T.S.	TRANSITION STRIP
EJ	EXPANSION JOINT	OFIC	OWNER FURNISHED, CONTRACTOR INSTALLED	TYP	TYPICAL
ENT	ENTRANCE, ENTRY	OFI	OWNER FURNISHED, OWNER INSTALLED	UGND	UNDERGROUND
EQ	EQUAL	OPNG	OPENING	UL	UNDERWRITERS LAB
EST	ESTIMATE	OPP	OPPOSITE	UNO	UNLESS NOTED OTHERWISE
EW	EACH WAY	OPP HND	OPPOSITE HAND	UON	UNLESS OTHERWISE NOTED
EXP	EXISTING	OV	OVER	V	VAPOR BARRIER
EXT	EXTERIOR	OVHD	OVERHEAD	VCT	VINYL COMPOSITION TILE
EXP JT	EXPANSION JOINT	P	PANELBOARD	VERT	VERTICAL
F	FAHRENHEIT	P.LAM	PLASTIC LAMINATE	VIF	VERIFY IN FIELD
FD	FLOOR DRAIN	PLY	PLYWOOD	VOL	VOLUME
F.E.	FIRE EXTINGUISHER	PLYWD	PLYWOOD	W	WIDE / WIDTH
F.E.C.	FIRE EXTINGUISHER CABINET	PNLB	PANELBOARD	W/	WITHOUT
F.F.	FINISHED FLOOR	PNT / PT	PAINT	W.B.	WHITEBOARD
FF EL	FINISHED FLOOR ELEVATION	POLYSO	POLYISOCYANURATE	WD	WOOD
FG	FINISHED GRADE	PRESS	PRESSURE	WR	WATER RESISTANT
FHY	FIRE HYDRANT	PROJ	PROJECT	WTRPRF	WATERPROOF
FDC	FIRE DEPARTMENT CONNECTION	PROP	PROPERTY	WVF	WELDED WIRE FABRIC
				WWM	WELDED WIRE MESH

PROJECT TEAM

ARCHITECT MANN'S WOODWARD STUDIOS 8098 SANDPIPER CIR., SUITE H NOTTINGHAM, MD 21236 PHONE: 410-344-1460	AQUATICS CONSULTANT AQUATIC DESIGN GROUP 2226 FARADAY AVE CARLSBAD, CA 92008 PHONE: 800-938-0542
STRUCTURAL ENGINEER MINCIN PATEL MILANO 6511 HARFORD ROAD BALTIMORE MARYLAND 21214 PHONE: 410-254-7500	MEP ENGINEER GIPE ASSOCIATES 1220 E JOPPA ROAD #223 TOWSON MARYLAND 21286 PHONE: 410-832-2420
CIVIL ENGINEER CENTURY ENGINEERING "A KLEINFELDER CO" 16901 MELFORD BOULEVARD, SUITE 130 BOWIE MARYLAND 20715 PHONE: 443-589-2400 ex. 1180	

CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

THE INTENT OF THE CONSTRUCTION DRAWINGS AND THE CONSTRUCTION SPECIFICATIONS/PROJECT MANUAL IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONSTRUCTION DRAWINGS AND THE CONSTRUCTION SPECIFICATIONS/PROJECT MANUAL ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL; PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND THE CONSTRUCTION SPECIFICATIONS/PROJECT MANUAL AND REASONABLY INFERRABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INDICATED/INTENDED RESULTS. IN THE CASE OF INCONSISTENCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE CONSTRUCTION SPECIFICATIONS/PROJECT MANUAL OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECT'S INTERPRETATION.



VICINITY MAP
NOT TO SCALE



DRAWING INDEX

SHEET NUMBER	SHEET NAME
GENERAL / CODE	
G000	COVER SHEET
G001	CODE ANALYSIS & DIAGRAM
G002	CODE PLAN
G003	TYPICAL ACCESSIBILITY GUIDELINES
CIVIL - NEW WORK	
C001	COVER SHEET
C002	OVERALL EXISTING CONDITIONS PLAN
C003	EXISTING CONDITIONS PLAN
C004	OVERALL SITE LAYOUT PLAN
C005	SITE LAYOUT AND GRADING PLAN
C006	UTILITY PLAN
C007	SITE AND UTILITY DETAILS
C008	PROPOSED STORMWATER MANAGEMENT PLAN
C009	STORMWATER MANAGEMENT DETAILS
C010	DOWNSTREAM OUTFALL ANALYSIS
C010A	EXISTING DRAINAGE AREA MAP
C011	STORMWATER DRAINAGE AREA MAP
C012	STORMWATER MANAGEMENT DRAINAGE AREA MAP
C013	STORM DRAIN PROFILE
C014	WATER / SEWER PROFILE
C015	LANDSCAPE PLAN
C016	LANDSCAPE DETAILS
C017A	EROSION AND SEDIMENT CONTROL PLAN - PHASE 1
C017B	EROSION AND SEDIMENT CONTROL PLAN - PHASE 2
C017C	EROSION AND SEDIMENT CONTROL PLAN - PHASE 3
C018	EROSION AND SEDIMENT CONTROL NOTES
C019	EROSION AND SEDIMENT CONTROL DETAILS
ARCHITECTURAL - DEMOLITION	
AD100	DEMOLITION SITE PLAN
ARCHITECTURAL - NEW WORK	
A100	ARCHITECTURAL SITE DIAGRAM
A101	REFERENCE PLAN
A102	ASSEMBLY TYPES & DETAILS
A103	SLAB DIMENSION PLAN
A104	EQUIPMENT PLAN
A105	PUMP HOUSE PLAN
A200	EXTERIOR ELEVATIONS
A300	BUILDING SECTIONS
A400	WALL SECTIONS
A401	WALL SECTION DETAILS
A500	ROOF PLAN & DETAILS
A600	PUMP HOUSE OPENING TYPES & DETAILS
A900	SHADE STRUCTURE PLANS & SECTION
AQUATICS - NEW WORK	
SG1	SPRAY GROUND AREA PLAN
SG2	SPRAY GROUND LAYOUT PLAN
SG3	SPRAY GROUND PLUMBING PLAN

DRAWING INDEX

SHEET NUMBER	SHEET NAME
SG3.1	SPRAY GROUND DRAINAGE PLAN
SG4	DETAILS
SG5	DETAILS
SG6	DETAILS
SG7	DETAILS
SG8	DETAILS
SG9	DETAILS
SG10	DETAILS
SG11	DETAILS
MR1	MECHANICAL ROOM LAYOUT
MR2	DETAILS
MR3	DETAILS
MR4	DETAILS
MR5	DETAILS
MR6	DETAILS
STRUCTURAL - NEW WORK	
S101	STRUCTURAL PLANS
S401	STRUCTURAL SECTIONS
S402	STRUCTURAL SECTIONS
S403	STRUCTURAL SECTIONS
MECHANICAL - GENERAL	
M001	MECHANICAL LEGEND & GENERAL NOTES
MECHANICAL - NEW WORK	
M101	PUMP HOUSE FLOOR PLAN
M201	MECHANICAL DETAILS, CONTROLS & SCHEDULES
PLUMBING - GENERAL	
P001	PLUMBING LEGEND & GENERAL NOTES
PLUMBING - NEW WORK	
P002	PLUMBING SITE PLAN
P101	PUMP HOUSE FLOOR PLAN
P201	PLUMBING DETAILS & RISER DIAGRAMS
FIRE PROTECTION - GENERAL	
FP001	FP LEGEND & GENERAL NOTES
FIRE PROTECTION - NEW WORK	
FP002	FP SITE PLAN
FP201	FP DETAILS
ELECTRICAL - GENERAL	
E001	LEGEND, SCHEDULES & ABBREVIATIONS
ELECTRICAL - NEW WORK	
E002	ELECTRICAL SITE PLAN
E101	PUMP HOUSE FLOOR PLAN - POWER
E201	SCHEMATIC POWER RISER DIAGRAM
E301	ELECTRICAL DETAILS
E401	ELECTRICAL SCHEDULES

KEY TO MATERIALS

SECTION PATTERN	DESCRIPTION
[Pattern]	BRICK
[Pattern]	CMU MASONRY
[Pattern]	CONCRETE
[Pattern]	POROUS FILL
[Pattern]	EARTH
[Pattern]	PLYWOOD
[Pattern]	GYPSUM BOARD
[Pattern]	RIGID INSULATION
[Pattern]	BATT INSULATION
[Pattern]	END GRAIN LUMBER
[Pattern]	WOOD BLOCK OR SHIM
[Pattern]	FINISH WOOD

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

ARCHITECT: DAVID WOODWARD, AIA
 MANN'S WOODWARD STUDIOS
 8098 SANDPIPER CIR., SUITE H
 NOTTINGHAM, MARYLAND 21236
 P: 410-344-1460

DGN BY: _____
 DWN BY: _____
 CHD BY: _____

REVISION

NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT		09/06/2023
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

SCALE	DATE	APPROVED

ARCHITECTURAL

N. ARUNDEL SWM CT-SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

G000
 COVER SHEET

CODE ANALYSIS - SUMMARY

PROJECT	APPLICABLE CODES	PROJECT AREA ANALYSIS
ANNE ARUNDEL COUNTY NORTH ARUNDEL AQUATIC CENTER OUTDOOR SPLASH PAD ADDITION	LIFE SAFETY CODE (NFPA 101)	2018 EXISTING BUILDING,
	INTERNATIONAL BUILDING CODE	2018 ENCLOSED AREA: 24,497 SF
	INTERNATIONAL MECHANICAL CODE	2018 EXISTING OUTDOOR PATIO AREA: 4,523 SF
	NATIONAL ELECTRIC CODE (NFPA 70)	2017 EXISTING FACILITY, TOTAL AREA: 29,020 SF
	INTERNATIONAL PLUMBING CODE	2018
	INTERNATIONAL ENERGY CONSERVATION CODE	2018 ENCLOSED AREA OF PROPOSED
	INTERNATIONAL SWIMMING POOL AND SPA CODE	2018 FREE-STANDING PUMPHOUSE BUILDING: 292 SF
	ACCESSIBILITY CODES, CONSISTING OF APPLICABLE PROVISIONS OF THE FOLLOWING:	2018 PROPOSED OUTDOOR SPLASH PAD ADDITION: 6,770 SF
	- ICC A117.1-2009	2010 PROPOSED ADDITIONS, TOTAL AREA: 7,062 SF
	- MARYLAND ACCESSIBILITY CODE (COMAR 09.12.52)	2010
	- ADAAG	2010
	- ARCHITECTURAL BARRIERS ACT	2018 PROPOSED FACILITY, TOTAL AREA: 36,082 SF
	FIRE PREVENTION CODE (NFPA 1)	2016
	AUTOMATIC SPRINKLER CODE (WHERE APPLICABLE) - NFPA 13	2016
NATIONAL FIRE ALARM CODE NFPA 72	2016	

PROJECT DESCRIPTION

THE PROJECT PROPOSES A NEW EXTERIOR, OPEN AIR SPLASH PAD ADDITION TO THE EXISTING NORTH ARUNDEL AQUATIC CENTER FACILITY. THE PROPOSED PAD IS APPROXIMATELY 7,242 GROSS SQUARE FEET AND WILL CONSIST OF A CENTRAL SPLASH PAD WITH INTERACTIVE PLAY FEATURES, A SPLASH PAD DECK WITH FIXED BENCH SEATING AND A SHADE STRUCTURE, AN 383 SF EQUIPMENT PUMP HOUSE WITH TWO WALL-MOUNTED SHOWER UNITS, AND NEW PERIMETER FENCING WITH GATES FOR EGRESS. THE 'WET' PORTION OF THE SPLASH PAD IS DESIGNED TO BE 'ZERO' DEPTH, MEANING THERE WILL NORMALLY BE NO STANDING WATER ON THE PAD. NEW GATES SHALL BE SIZED TO ACCOMMODATE EGRESS OF EXISTING BUILDING AND PATIO OCCUPANT LOADS IN ADDITION TO THE SPLASHPAD OCCUPANT LOAD. THERE WILL BE NO MODIFICATIONS TO THE EXISTING NORTH ARUNDEL AQUATIC CENTER BUILDING ASIDE FROM SELECTIVE DEMOLITION OF THE EXISTING PATIO PERIMETER FENCING TO ALLOW ACCESS TO THE PROPOSED SPLASHPAD AND THE INSTALLATION OF NEW ELECTRICAL FEEDERS. THE PROPOSED SPLASHPAD AND PUMP HOUSE WILL BE OF TYPE IIB (NON-COMBUSTIBLE, UNPROTECTED) CONSTRUCTION.

INTERNATIONAL BUILDING CODE 2018 (SPLASHPAD & DECK)

3109 - SWIMMING POOLS, SPAS AND HOT TUBS	1004.7 - OUTDOOR AREAS
THE DESIGN AND CONSTRUCTION OF SWIMMING POOLS, SPAS AND HOT TUBS SHALL COMPLY WITH THE INTERNATIONAL SWIMMING POOL AND SPA CODE.	OUTDOOR AREAS ACCESSIBLE TO AND USABLE BY BUILDING OCCUPANTS SHALL BE PROVIDED WITH MEANS OF EGRESS AS REQUIRED BY THIS CHAPTER. THE OCCUPANT LOAD OF SUCH OUTDOOR AREAS SHALL BE ASSIGNED BY THE BUILDING CODE OFFICIAL IN ACCORDANCE WITH THE ANTICIPATED USE.
1004.1 - OUTDOOR AREAS	THE PROPOSED SPLASHPAD, SPLASHPAD DECK AND PUMP HOUSE MEANS OF EGRESS SHALL NOT PASS THROUGH THE EXISTING FACILITY. THE EXISTING FACILITY SHALL EGRESS THROUGH THE EXISTING PATIO AND SPLASHPAD DECK. THE PERIMETER FENCING SURROUNDING THE EXISTING PATIO AND PROPOSED SPLASHPAD DECK SHALL BE EQUIPPED WITH GATES THAT MEET MEANS OF EGRESS REQUIREMENTS BASED ON THE EXISTING AND PROPOSED OCCUPANT LOADS COMBINED.
OUTDOOR AREAS ARE USEABLE BY THE BUILDING OCCUPANTS ONLY. ADDITIONAL OCCUPANTS OUTSIDE OF THE BUILDING OCCUPANTS ARE NOT PERMITTED TO USE THE EXISTING PATIO.	1010.2 - GATES
1005.3.2 - MEANS OF EGRESS SIZING	GATES USED AS A COMPONENT IN A MEANS OF EGRESS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS FOR DOORS.
THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT	

INTERNATIONAL POOL AND SPA CODE 2018

TABLE 608.1 - OCCUPANT LOAD	609.3.1 - DECK SHOWERS
VESSEL WATER SURFACE AREA - SHALLOW OR WADING AREAS - 8 SQ FT PER USER	NOT LESS THAN ONE AND NOT MORE THAN HALF OF THE TOTAL NUMBER OF SHOWERS REQUIRED BY SECTION 609.2 SHALL BE LOCATED ON THE DECK OF OR AT THE ENTRANCE OF EACH POOL.
DECK AREA - 1 USER PER 15 SQ FT	REQ # OF DECK SHOWERS = 2 ACTUAL # OF DECK SHOWERS PROPOSED = (2) WALL-MOUNTED DECK SHOWERS SHALL BE PROVIDED AT THE PROPOSED PUMP HOUSE.
609 - TOILET ROOMS	
EXISTING TOILET AND SHOWER ROOMS WITHIN THE EXISTING FACILITY SHALL SERVE THE USERS OF THE PROPOSED SPLASHPAD. SEE CODE COMPLIANCE ANALYSIS ON SHEET G002.	

NFPA 101: LIFE SAFETY 2018 (SPLASHPAD & DECK)

6.1.1.2 - SPECIAL STRUCTURES	11.2.1.1 - OPEN STRUCTURES
OCCUPANCIES IN SPECIAL STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFIC OCCUPANCY CHAPTERS, CHAPTER 12 THROUGH 43, EXCEPT AS MODIFIED BY CHAPTER 11.	THE APPLICABLE PROVISIONS OF SECTION 11.1 SHALL APPLY.
11.2.2.3 - CAPACITY OF MEANS OF EGRESS	
OPEN STRUCTURES SHALL BE EXEMPT FROM THE REQUIREMENTS FOR CAPACITY OF MEANS OF EGRESS	
11.2.2.6 - TRAVEL DISTANCE TO EXITS	
OPEN STRUCTURES SHALL BE EXEMPT FROM TRAVEL DISTANCE LIMITATIONS	
11.2.3.4 - DETECTION, ALARM AND COMMUNICATIONS SYSTEMS	
OPEN STRUCTURES SHALL BE EXEMPT FROM REQUIREMENTS FOR DETECTION, ALARM AND COMMUNICATIONS SYSTEMS.	

INTERNATIONAL BUILDING CODE 2018 (PUMP HOUSE)

USE CLASSIFICATIONS - CHAPTER 3	BUILDING HEIGHT LIMITATIONS - TABLE 504.3 & 504.4
PRIMARY USE: U - UTILITY	ALLOWABLE BUILDING HT. IN FT: 55 FT ACTUAL = 16 FEET
CONSTRUCTION TYPE - CH.6	ALLOWABLE NO. OF STORIES: 2 ACTUAL = 1
CONSTRUCTION TYPE: IIB NON SPRINKLERED	
OCCUPANT LOAD FACTORS - TABLE 1004.5	ALLOWABLE AREA FACTOR - TABLE 506.2
ACCESSORY STOR/MECH.EQUIP 300 GSF	ALLOWABLE AREA : 22,000 SQUARE FEET ACTUAL = 383 SQUARE FEET
	FIRE SEPERATION DISTANCE - TABLE 602
	X>30 (UTILITY) = 0 FIRE RESISTANCE REQUIRED ACTUAL SEPARATION = 37 FEET (TO EXIST. NAAC BLDG ROOF OVERHANG)

ENERGY CODE COMPLIANCE - IECC 2018 (PUMP HOUSE) TABLES C402.1.3 & C402.1.4

SCOPE AND APPLICABILITY:

THE PROPOSED PUMP HOUSE BUILDING WILL BE HEATED BUT NOT COOLED. THE PROPOSED PUMP HOUSE BUILDING IS NOT CLASSIFIED AS A 'LOW-ENERGY BUILDING' IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION C402.1.1. HOWEVER, THE BUILDING IS CLASSIFIED AS AN 'EQUIPMENT BUILDING' IN ACCORDANCE WITH C402.1.2. THEREFORE, THE BUILDING DOES NOT NEED TO COMPLY WITH AIR LEAKAGE REQUIREMENTS.

BUILDING COMPONENT	CODE REQUIREMENT	PROVIDED	TYPE
ROOF INSUL. ENTIRELY ABOVE DECK:	R-30	R-30	POLYISO INSUL
ATTIC INSUL:	R-38	R-38	POLYISO INSUL
MASONRY (MASS WALLS) ABV GRADE:	R-9.5 ci	R-14	INSUL MET BACKUP PANEL
BELOW-GRADE WALLS:	R-7.5 ci	R-14 for 24" BEL	XPF INSUL BOARD
UNHEATED SLABS:	R-10 for 24" BEL	R-10 for 24" BEL	XPF INSUL BOARD

THE LIST ABOVE HAS BEEN INCLUDED IN THE DOCUMENTS TO DEMONSTRATE THE MINIMUM CODE COMPLIANCE REQUIRED/PROVIDED WITHIN THE CONTRACT DOCUMENTS AS IT PERTAINS TO THE ENERGY CODE(S). THIS LIST IS NOT INTENDED TO SUPERSEDE OTHER CONSTRUCTION DOCUMENT REQUIREMENTS, DRAWINGS, DETAILS, AND SPECIFICATIONS, WHICH MAY CONTAIN MORE STRINGENT REQUIREMENTS, ALL WHICH TAKE PRECEDENCE OVER THIS LIST FROM THE STANDPOINT OF DESIGN CONCEPT AND COST.

AIR LEAKAGE REQUIREMENTS:
NOT REQUIRED (EQUIPMENT BUILDING)

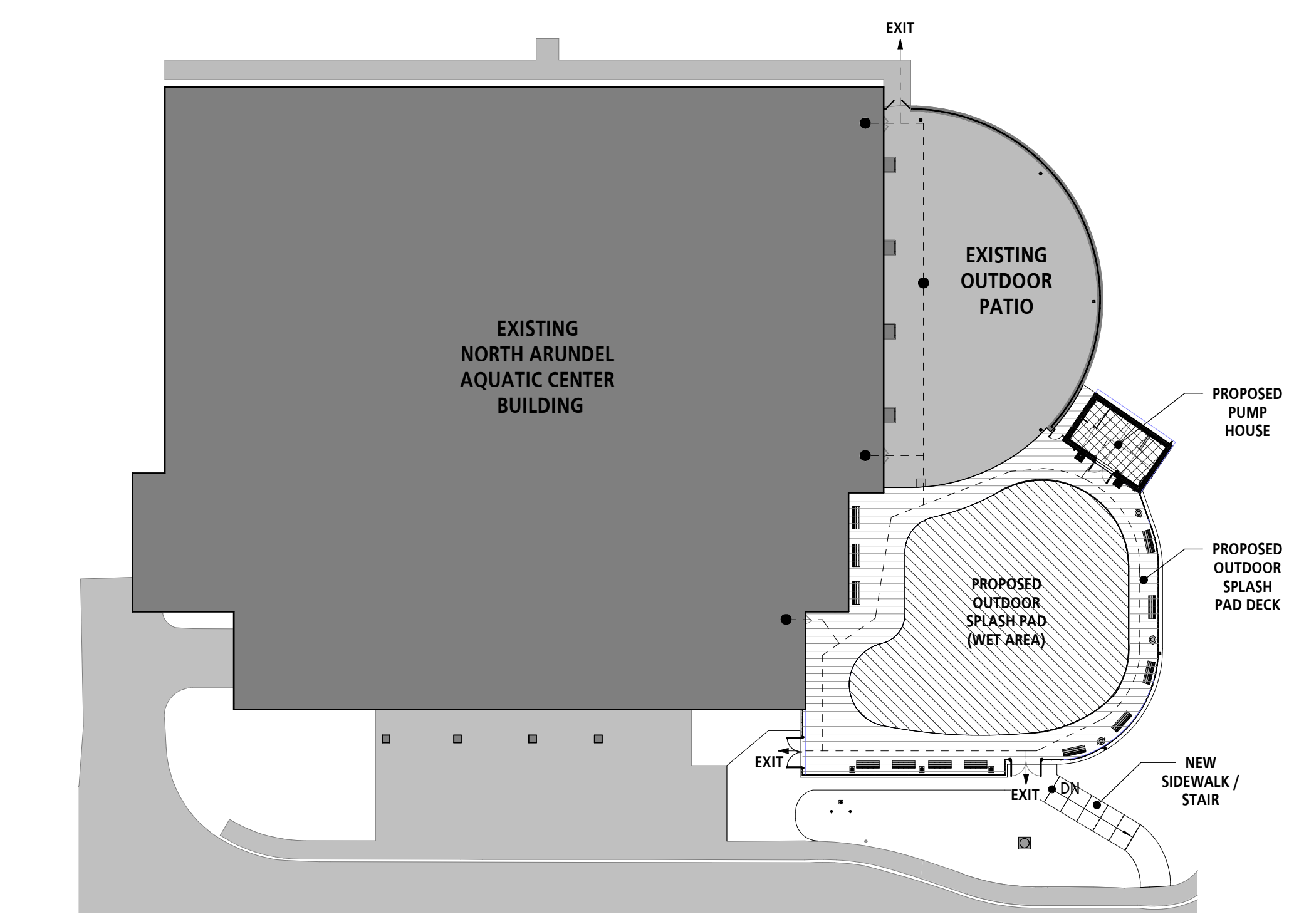
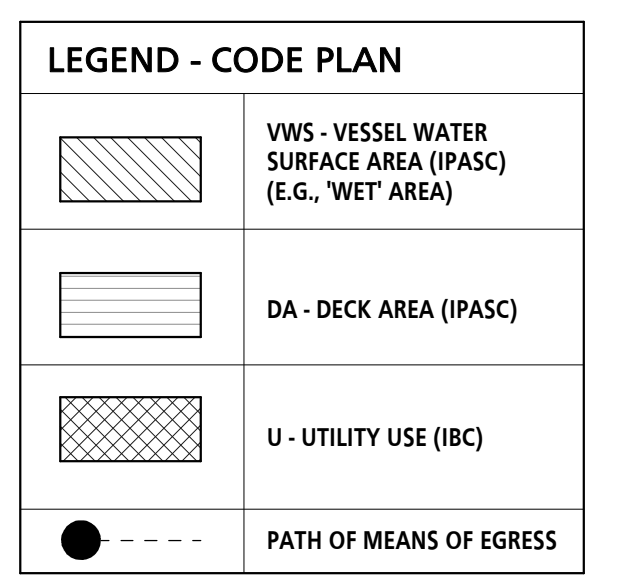
ELECTRICAL & MECHANICAL SYSTEM DESIGN:
THE BUILDING HAS BEEN DESIGNED TO COMPLY WITH THE REQUIREMENTS OF SECTIONS C403, & C405. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION & DETAILS.

AUTOMATIC SPRINKLER SYSTEM CODE ANALYSIS (PUMP HOUSE) IBC CHAPTER 5 & SECTION 903.2

CHAPTER 3	SECTION 903.2
THE PUMP HOUSE BUILDING DOES NOT EXCEED THE ALLOWABLE AREA ESTABLISHED UNDER TABLE 506.2. THEREFORE, NO SPRINKLER SYSTEM REQUIRED UNDER THIS SECTION.	NONE OF THE PROVISIONS OF SECTION 903.2 'TRIGGER' THE REQUIREMENT FOR THE PUMP HOUSE BUILDING TO BE SPRINKLERED. THEREFORE, NO SPRINKLER SYSTEM REQUIRED UNDER THIS SECTION. THE PUMP HOUSE BUILDING IS PROPOSED TO BE UNSPRINKLERED.

FIRE ALARM AND DETECTION CODE ANALYSIS (PUMP HOUSE) IBC SECTION 907

SECTION 907.
NONE OF THE PROVISIONS OF SECTION 907.2 'TRIGGER' THE REQUIREMENT FOR THE PUMP HOUSE BUILDING TO BE EQUIPPED WITH FIRE ALARM AND DETECTION SYSTEMS.
HOWEVER, THE PUMP HOUSE BUILDING IS PROPOSED TO BE EQUIPPED WITH BOTH SMOKE & HEAT DETECTION INITIATION DEVICE(S), AS REQUESTED BY THE BUILDING OWNER. THESE INITIATION DEVICES WILL BE TIED INTO THE EXISTING FIRE ALARM SYSTEM LOCATED WITHIN THE EXISTING NORTH ARUNDEL AQUATIC CENTER BUILDING. SEE ELEC. DWGS FOR ADDITIONAL INFORMATION.



1 FACILITY CODE DIAGRAM
1/32" = 1'-0"

PROFESSIONAL CERTIFICATION		REVISION		ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.		NO.	DESCRIPTION	BY	DATE	APPROVED	DATE
LICENSE NO. 15505	EXPIRATION DATE: 08-18-2024	60%	DESIGN DEVELOPMENT		09/06/2023		
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT		90%	CONSTRUCTION DOCUMENTS		12/15/2023		
MANNS WOODWARD STUDIOS 6000 SANDSPRINGER CTR, SUITE 11 NOTTINGHAM, MARYLAND 21290 P: 410-441-1000		100%	CONSTRUCTION DOCUMENTS		07/01/2024	CHIEF ENGINEER	
DGN BY: _____	DATE: _____					APPROVED	DATE
DWN BY: _____						PROJECT MANAGER	
CHRD BY: _____						APPROVED	DATE
						ASSISTANT CHIEF ENGINEER	
						CHIEF, RIGHT OF WAY SERVICES	
SEAL				SCALE: _____			
				DRAWN BY: _____			
				CHECKED BY: _____			
				SHEET NO.: _____			
				PROJECT NO.: P570000			
				PROPOSAL NO.: P570003			
				ARCHITECTURAL			
				N. ARUNDEL SWM CT-SPLASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS			
				G001 CODE ANALYSIS & DIAGRAM			



Claudia O'Keefe
Plan Review Engineer
Department of Inspections and Permits
2664 Riva Road
Annapolis, MD 21401

06-19-2023

RE: CODE COMPLIANCE - MINIMUM QUANTITY OF PLUMBING FACILITIES

Dear Claudia:
Anne Arundel County Recreation & Parks has retained MW Studios to design the new outdoor splash pad addition proposed for the North Arundel Aquatic Center (NAAC).

Since this project is an "addition" to the existing facility, we have analyzed the overall facility (existing areas plus addition) to ensure it will have enough plumbing fixtures to "meet code".

The Client states the actual occupant load for this facility will be "limited by admission" - see attached letter. The maximum number of guests allowed will be 175 with a maximum staffing of 20, for a total actual limited occupant load of 195. Therefore, we have used the occupant load of 195 (98 males and females) for the purpose of determining the minimum number of plumbing fixtures required for this facility in accordance with 2018 International Plumbing Code Section 403, and the applicable sections of 2018 International Swimming Pool and Spa Code required for this facility.

Classification	Description	Male	Female	Total Required	Current Existing Fixtures
Assembly	Pool (Indoor) & (Outdoor Activities)	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for the first 1,500 and 1 per 60 for the remainder exceeding 1,500	2 Male / 3 Female	Mens 4 Water closets / 2 Urinals Womans 6 Water closets

06-19-2023
21-111 NAAC Splash Pad - Plumbing Fixture Count

Classification	Description	Male	Female	Total Required	Current Existing Fixtures
Assembly	Pool (Indoor) & (Outdoor Activities)	1 per 200	1 per 150	1 Male / 1 Female	Mens 3 Lavatories Womans 4 Lavatories

Classification	Description	Required (Calc)	Total Required	Current Existing Fixtures
Cleansing Shower	Water area greater than 7,500 gsf	1 Male and 1 Female per ea. 7,500 gsf area.	2 Male / 2 Female	Mens - Cleansing 5 Showers Womans - Cleansing 5 Showers Additional - 2 Individual
Rinse Shower	Not less than 1 rinse shower shall be provided on the deck or at the entrance of ea. pool	1 at Competition Pool / Deck & 1 at Recreational Pool / Deck	2	

Note: New deck-mounted outdoor rinse showers will be added at the splash pad addition.

Classification	Description	Required (Calc)	Total Required	Current Existing Fixtures
Assembly	Pool (Indoor) & (Outdoor Activities)	1 per 1,000	1	3 Drinking Fountains

06-19-2023
21-111 NAAC Splash Pad - Plumbing Fixture Count

Classification	Description	Required (Calc)	Total Required	Current Existing Fixtures
Assembly	Pool (Indoor) & (Outdoor Activities)	1 per 1,000	1	1 Service Sink

Based on our analysis, the existing building already contains enough plumbing fixtures to "meet code" with consideration of the addition of an outdoor splash pad and overall actual occupant limited by admission. Therefore, we propose no new water closets, lavatories, or cleansing showers will be required to be added as part of the outdoor splash pad addition project. Please confirm Plan Review is in agreement with this analysis and approach.

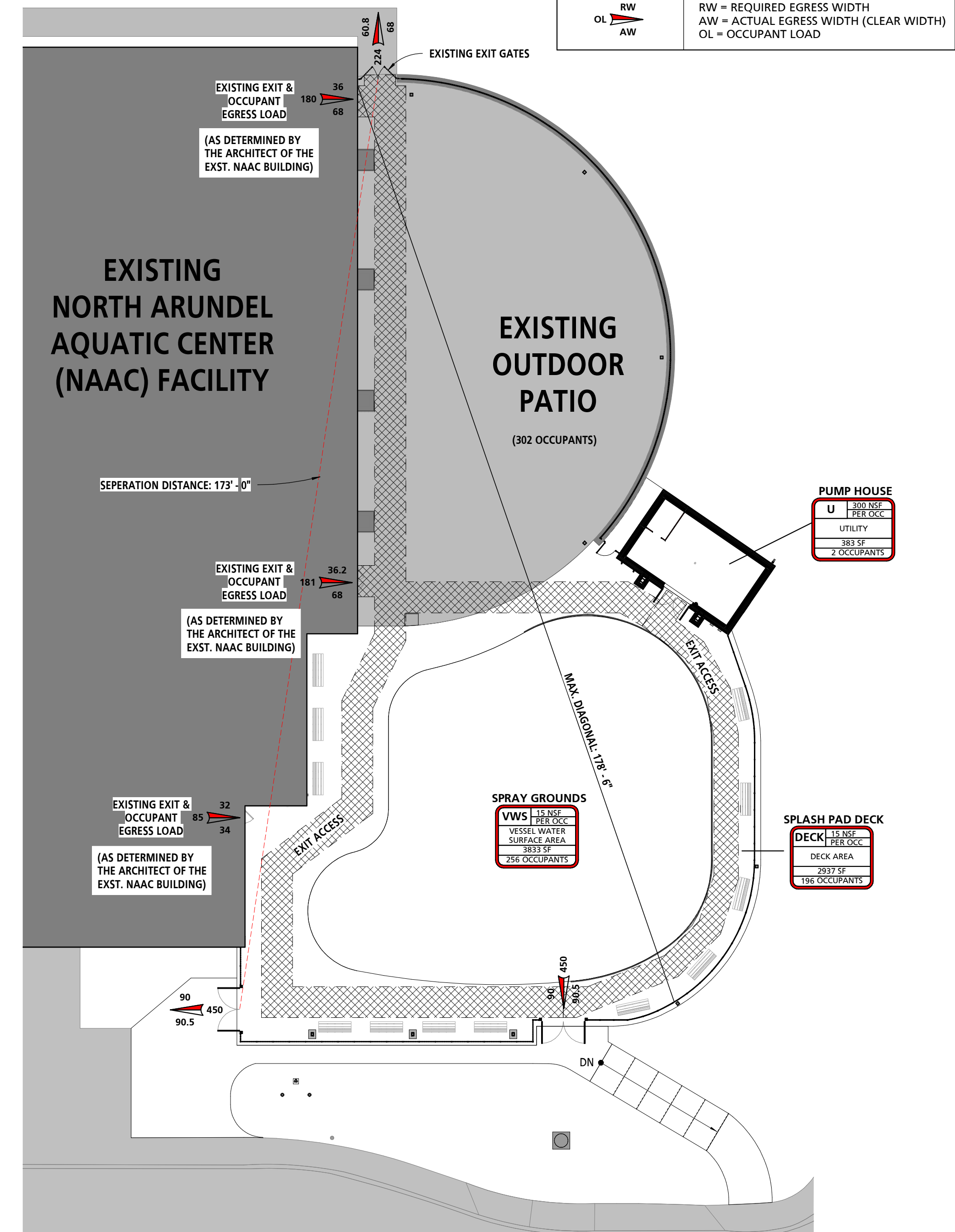
Matthew Loudenslager

Matthew Loudenslager
Project Designer

A: 10839 Philadelphia Road, White Marsh, MD 21162
E: mloudenslager@mwsarch.com
P: 410-344-1460

Cc: Mike Gerding

LEGEND - CODE PLAN	
	RW = REQUIRED EGRESS WIDTH
	AW = ACTUAL EGRESS WIDTH (CLEAR WIDTH)
	OL = OCCUPANT LOAD



1 FACILITY CODE PLAN
1/16" = 1'-0"

TOTAL OCCUPANT LOAD CALCULATION (PROPOSED OUTDOOR FACILITIES):

EXISTING BUILDING DISCHARGING TO FENCED-IN OUTDOOR FACILITIES:	446
EXISTING OUTDOOR PATIO:	302
PROPOSED PUMP HOUSE STRUCTURE:	2
PROPOSED VESSEL WATER "WET" SURFACE:	256
PROPOSED SPLASH PAD "DRY" DECK:	196
TOTAL OCCUPANT LOAD*, PROPOSED OUTDOOR FACILITIES:	1,202

* FOR THE DETERMINATION OF LIFE SAFETY COMPLIANCE AND COMPLIANCE WITH THE APPLICABLE EGRESS PROVISIONS OF THE CODE

ARCHITECT'S DETERMINATION OF OCCUPANT LOAD (FACTORS):

SPACE TYPE	IBC (TABLE 1004.5)	ISPS	NFPA 101 (TABLE 7.3.1.2)	THIS PROJECT
EXISTING BUILDING	--- AS INDICATED ON PREVIOUSLY PERMITTED DRAWING ---			
VESSEL WATER SURFACE (WET AREAS)	50 GFS	15 NSF*	50 GSF	15 NSF
UTILITY	300 GSF	---	300 GSF	300 GSF
POOL DECK AREA	15 GSF	15 NSF	30 GSF	15 NSF

* ISPCS TABLE 403.1 SHALLOW OR WADING AREA 'POOL' WITH MINIMUM DECK AREA

THE ARCHITECT HAS EXAMINED THE VARIOUS OCCUPANT LOAD GENERATION FACTORS ACROSS ALL APPLICABLE CODES AND UTILIZED THE MOST STRINGENT FACTORS FOR THE DETERMINATION OF OCCUPANT LOAD (FACTORS) USED FOR THIS PROJECT.



June 23, 2023
Michael Gerding, AIA, LEED
Project Manager
MW Studios - Architects
10839 Philadelphia Road, Suite D
White Marsh, MD 21162

RE: Capital Project P570003 - North Arundel Aquatic Center Splash Pad

Mike:
In follow-up to information provided to you by the Department of Recreation & Parks, this letter is to confirm that the subject facility's actual occupant load will be limited by admission. Upon opening the outdoor splash pad amenity, the occupant loads will be limited as follows:

Guests: 175 occupants, maximum
Staff: 20 occupants, maximum
Total: 195 occupants, maximum

When the facility admits its maximum guest load of 175, no further guests will be admitted until the number of actual guests inside the facility falls below this load.

Please perform a code analysis to demonstrate that the existing facility already has enough plumbing fixtures to support the "bather load" associated with the new outdoor splash pad addition without the need to add additional plumbing fixtures. Feel free to submit this letter along with your analysis to Department of Permits and Inspections to receive confirmation that this approach will be acceptable to them.

Should you or anyone else have questions about this limitation on the occupant load, please do not hesitate to contact me AT (410) 222-2827.

Very truly yours,
ANNE ARUNDEL COUNTY
DEPARTMENT OF RECREATION AND PARKS
Bruce A. Bruchey
Bruce A. Bruchey
Chief of Planning and Construction

PROFESSIONAL CERTIFICATION		SEAL	REVISION				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.			NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE
LICENSE NO.	EXPIRATION DATE		60%	DESIGN DEVELOPMENT		09/06/2023					DRAWN BY:
15505	08-18-2024		90%	CONSTRUCTION DOCUMENTS		12/15/2023					CHECKED BY:
ARCHITECT: DAVID WOODWARD, AIA, PRINCIPAL ARCHITECT		DGN BY: _____	100%	CONSTRUCTION DOCUMENTS		07/01/2024	CHIEF ENGINEER		APPROVED	DATE	SHEET NO.:
MANNS WOODWARD STUDIOS 6000 SANDPIPER CIR, SUITE 11 NOTTINGHAM, MARYLAND 21155 (P) 410-441-1460		DWN BY: _____					APPROVED				PROJECT NO.:
		CHRD BY: _____					ASSISTANT CHIEF ENGINEER				PROPOSAL NO.:
		DATE: _____									P570003

ARCHITECT PROJECT NO. 41-111
DWG. FILENAME: 7/24/2024 10:40:31 AM



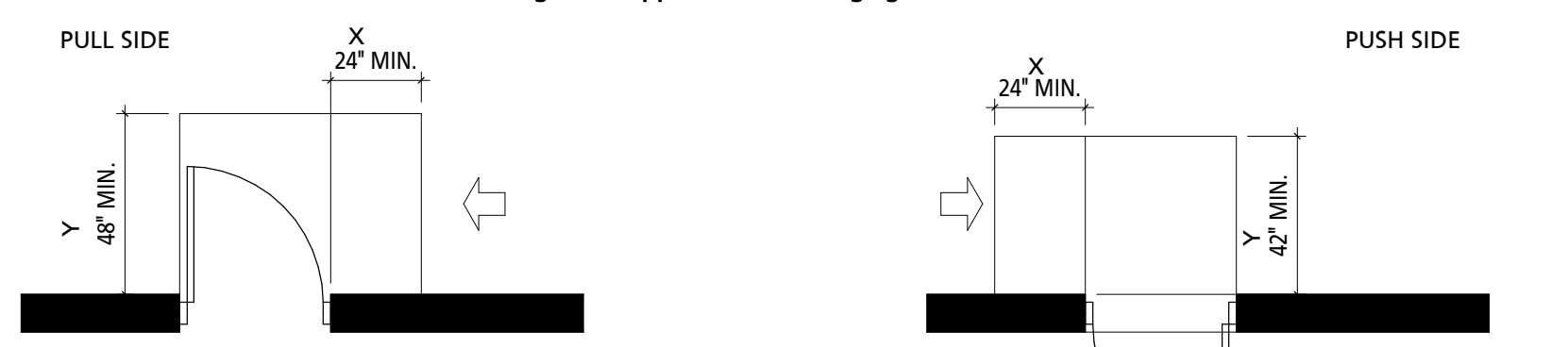
(a) Front Approaches - Swinging Doors

NOTE: x = 12" IF DOOR HAS BOTH A CLOSER AND LATCH.



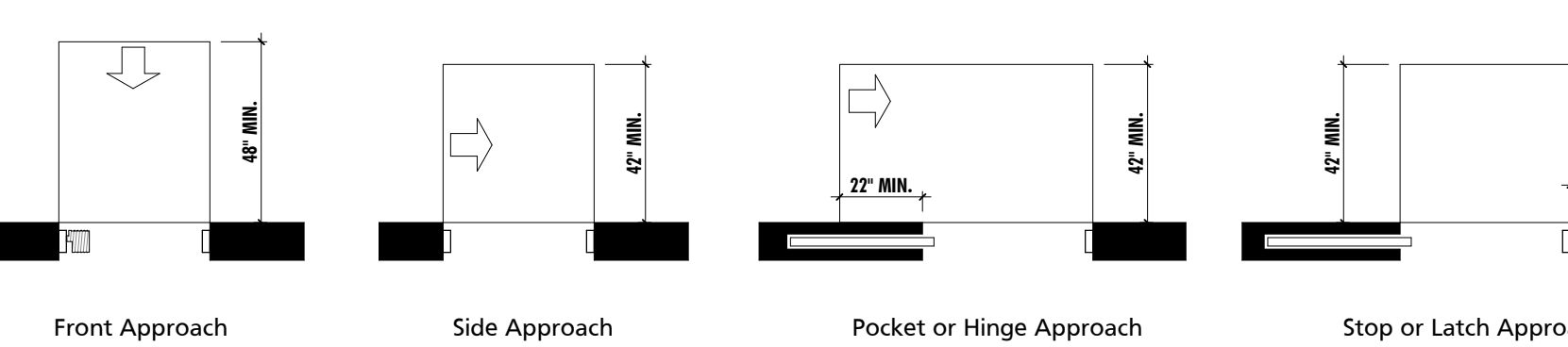
(b) Hinge Side Approaches - Swinging Doors

NOTE: y = 48" MINIMUM IF DOOR HAS BOTH A CLOSER AND LATCH.

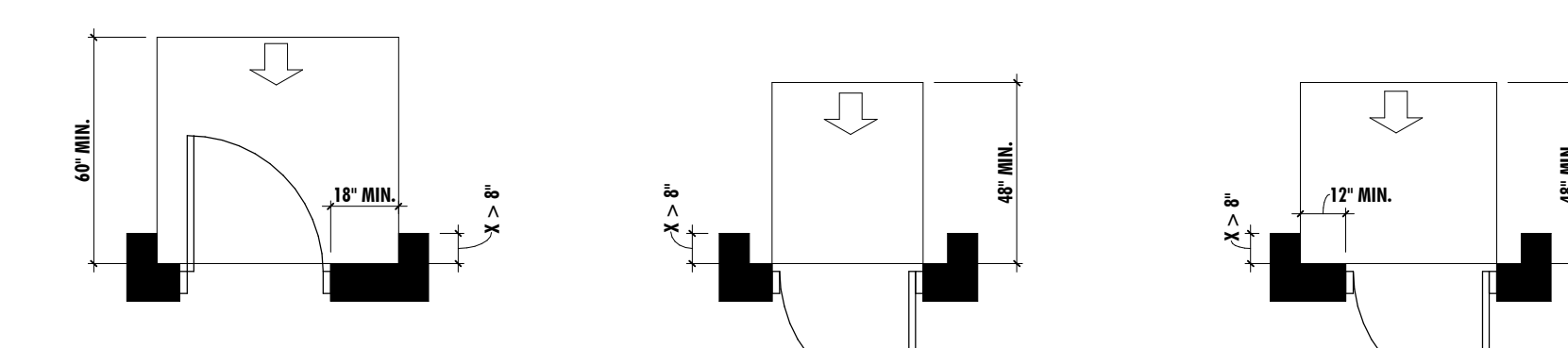


(c) Latch Side Approaches - Swinging Doors

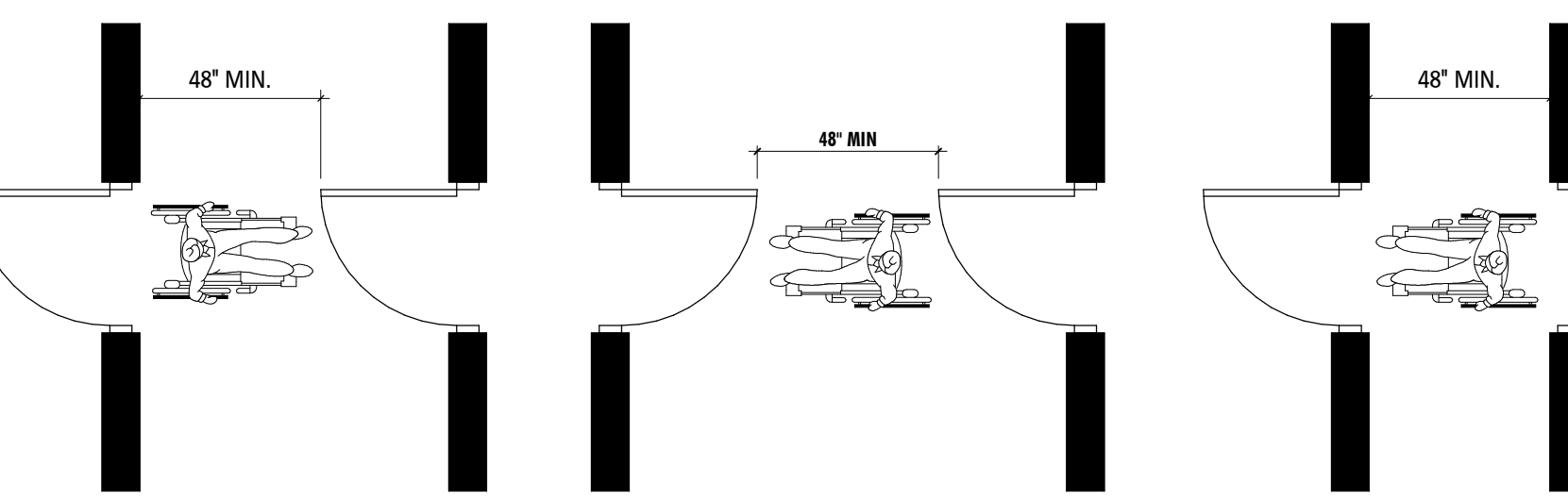
NOTE: y = 48" MINIMUM IF DOOR HAS CLOSER.



(d) Doorways without Doors

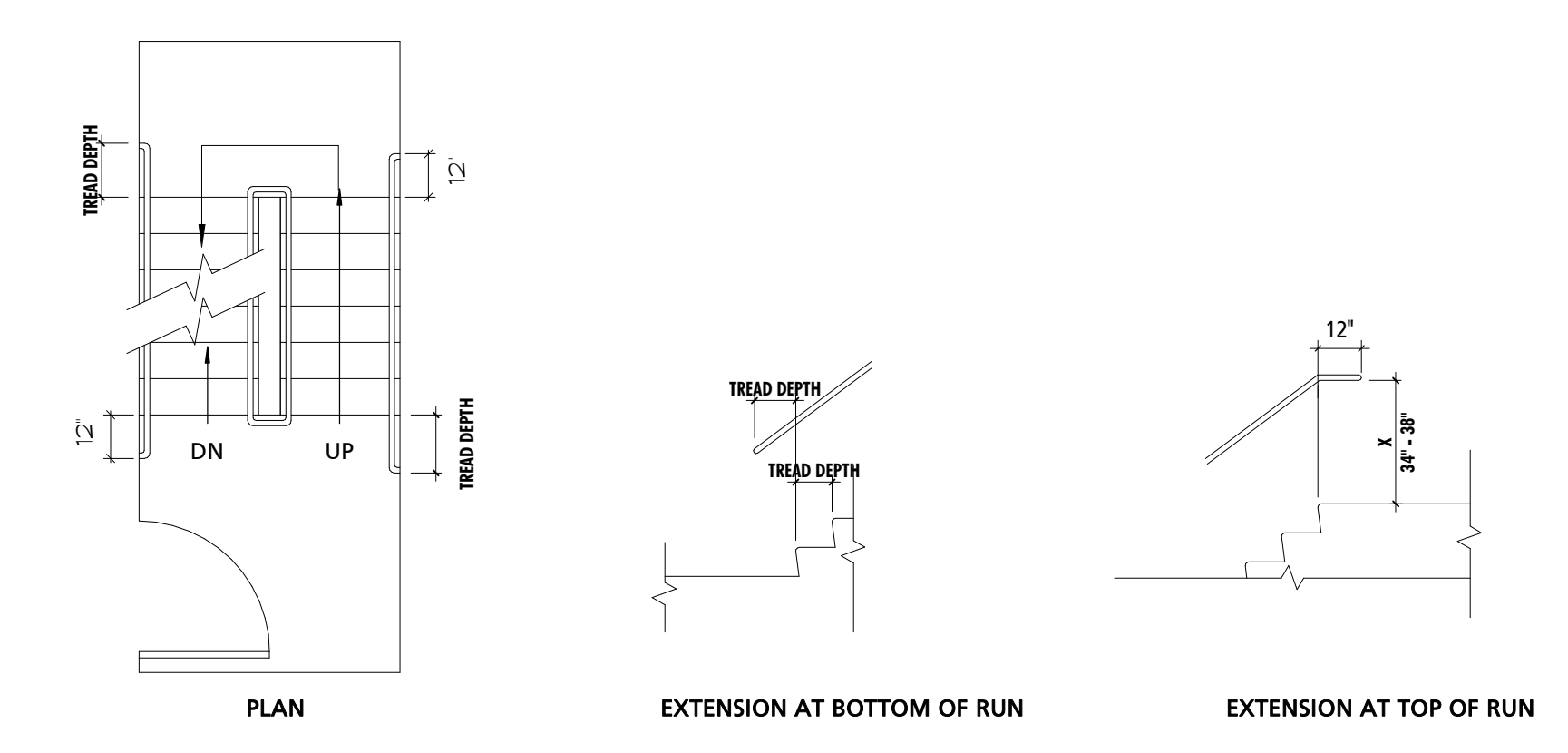


(e) Recessed Doors and Gates

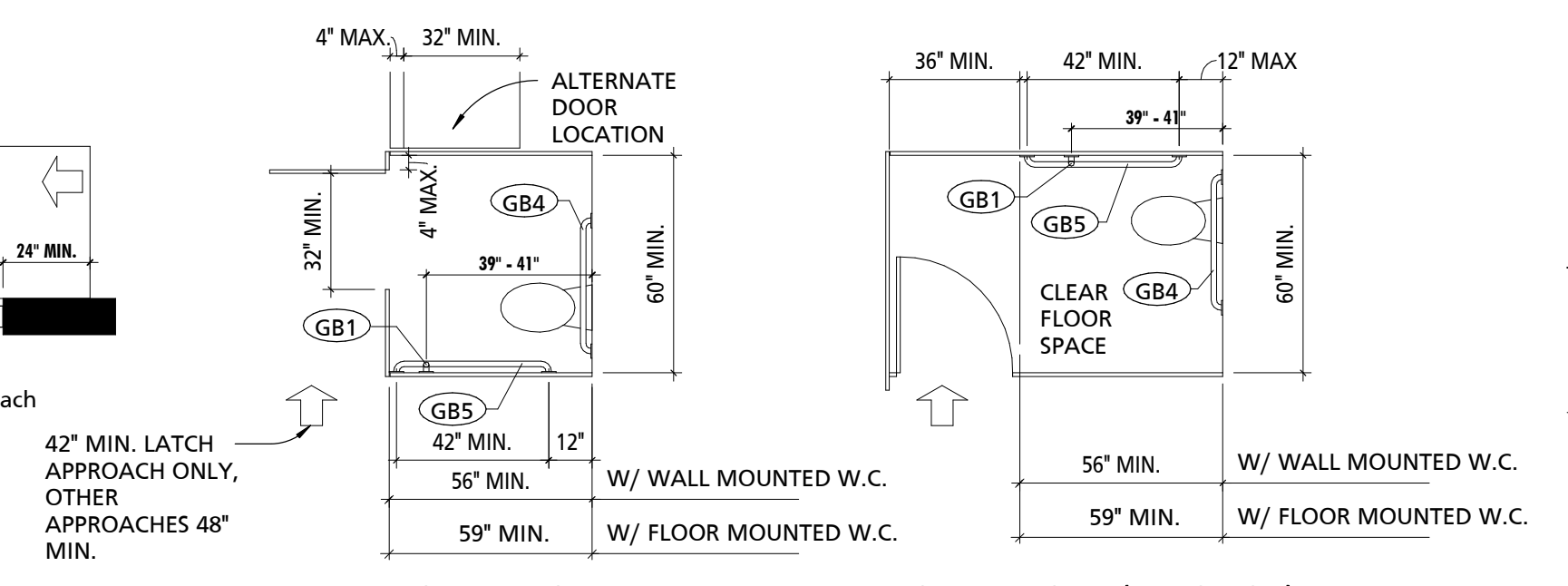


Two Hinged Doors in Series

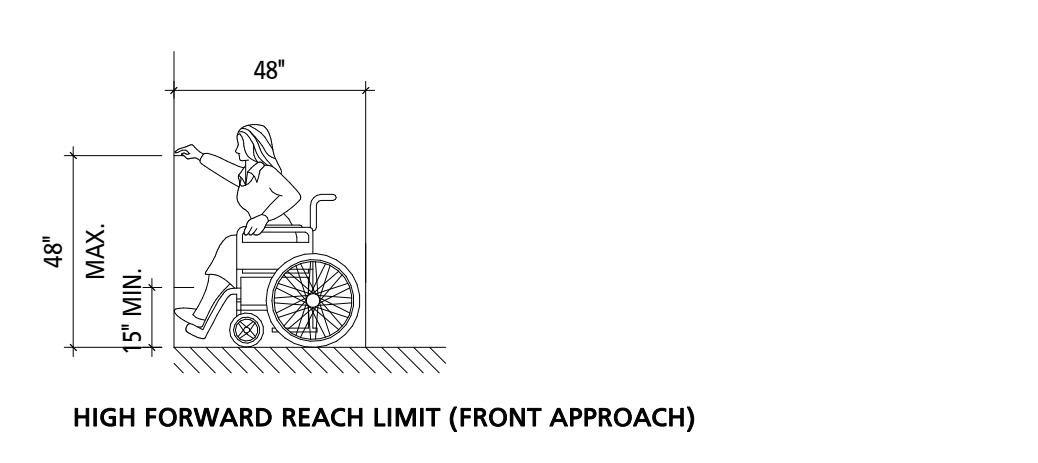
DOOR CLEARANCES (TYPICAL)
NOT TO SCALE



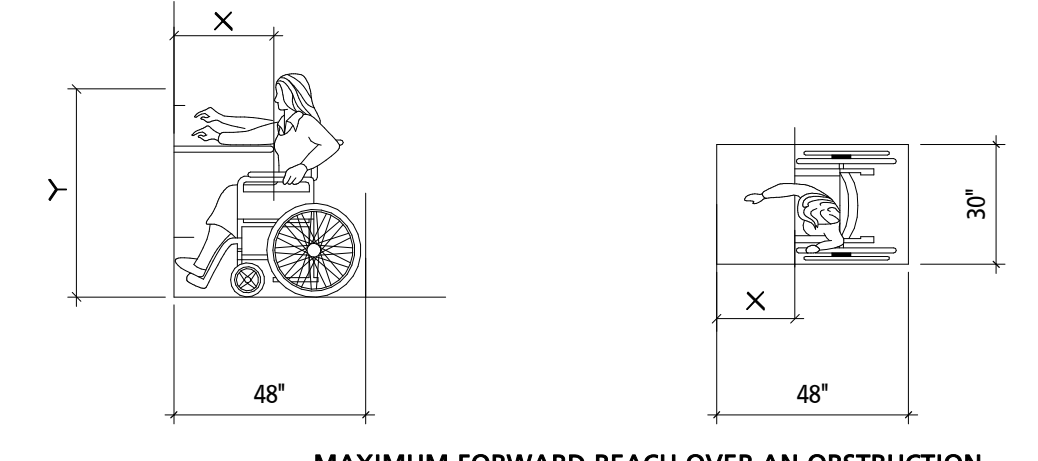
STAIR & RAMP CLEARANCES (TYPICAL)
NOT TO SCALE



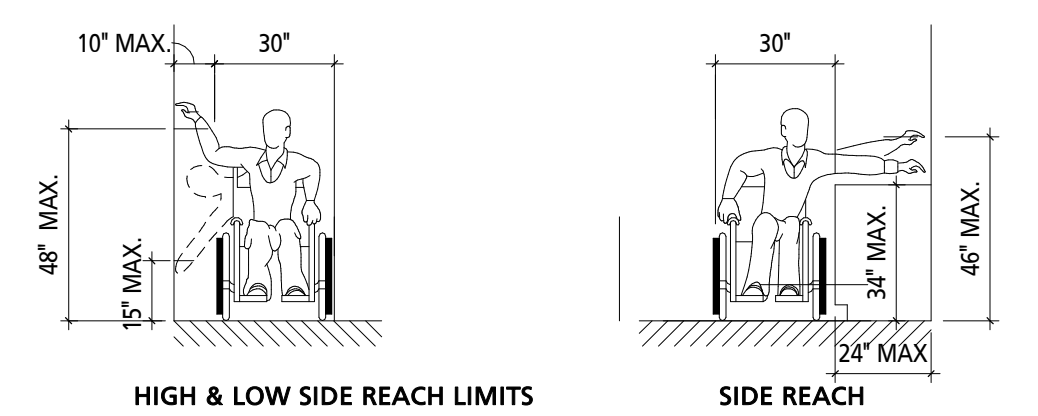
TOILET ROOM CLEARANCES (TYPICAL)
NOT TO SCALE



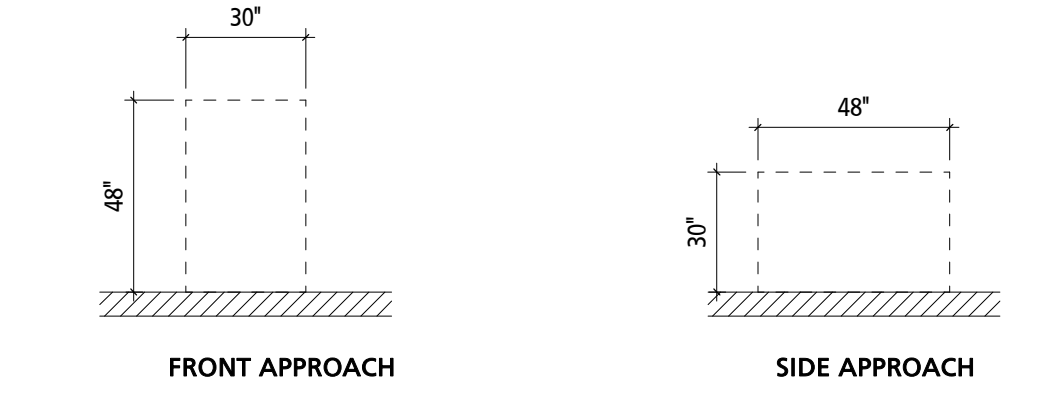
HIGH FORWARD REACH LIMIT (FRONT APPROACH)



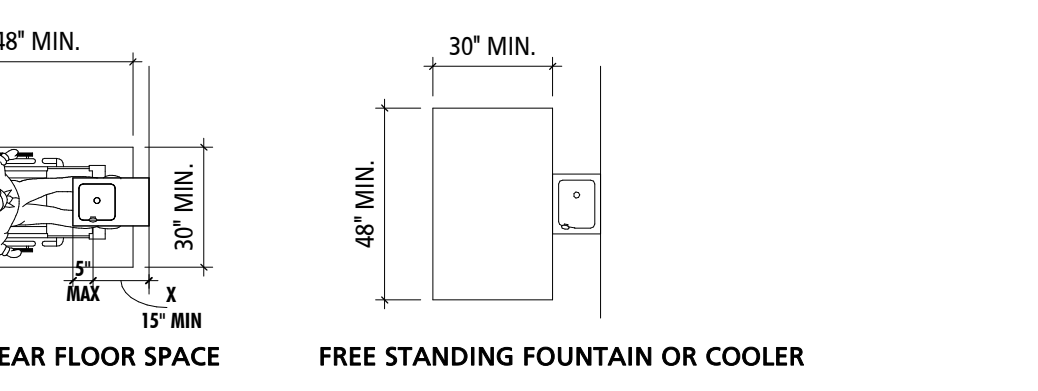
MAXIMUM FORWARD REACH OVER AN OBSTRUCTION
NOTE: WHEN X IS >20 INCHES MAX, Y SHALL BE 48 INCHES MAX
WHEN X IS 20-25 INCHES MAX, Y SHALL BE 44 INCHES MAX



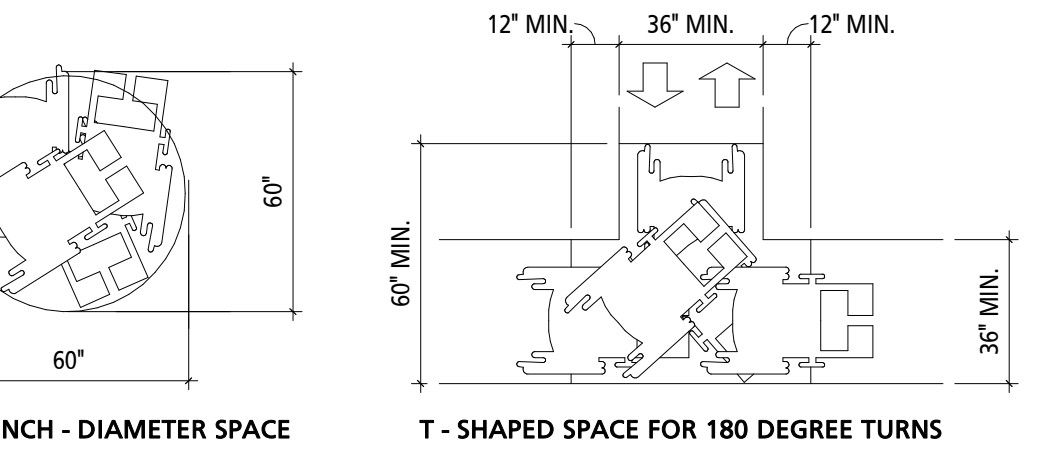
HIGH & LOW SIDE REACH LIMITS
SIDE REACH



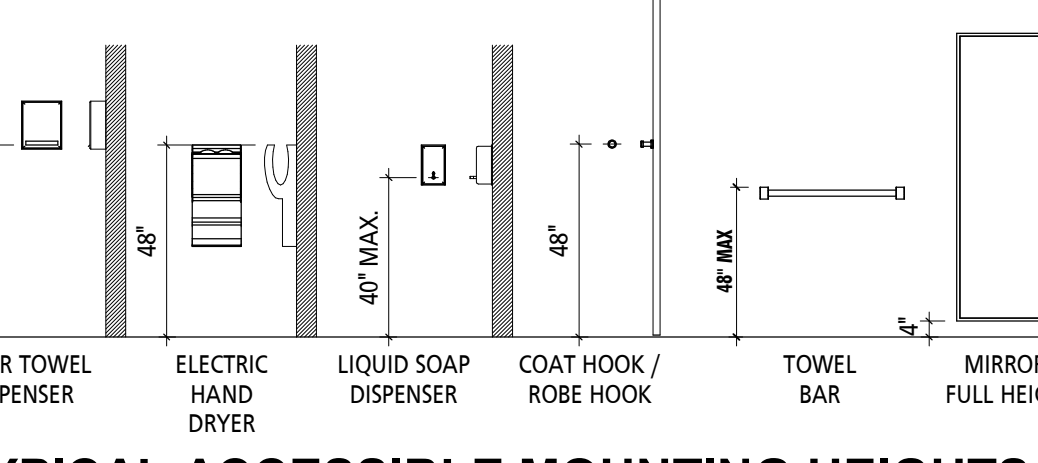
REACH RANGES & APPROACHES (TYPICAL)
NOT TO SCALE



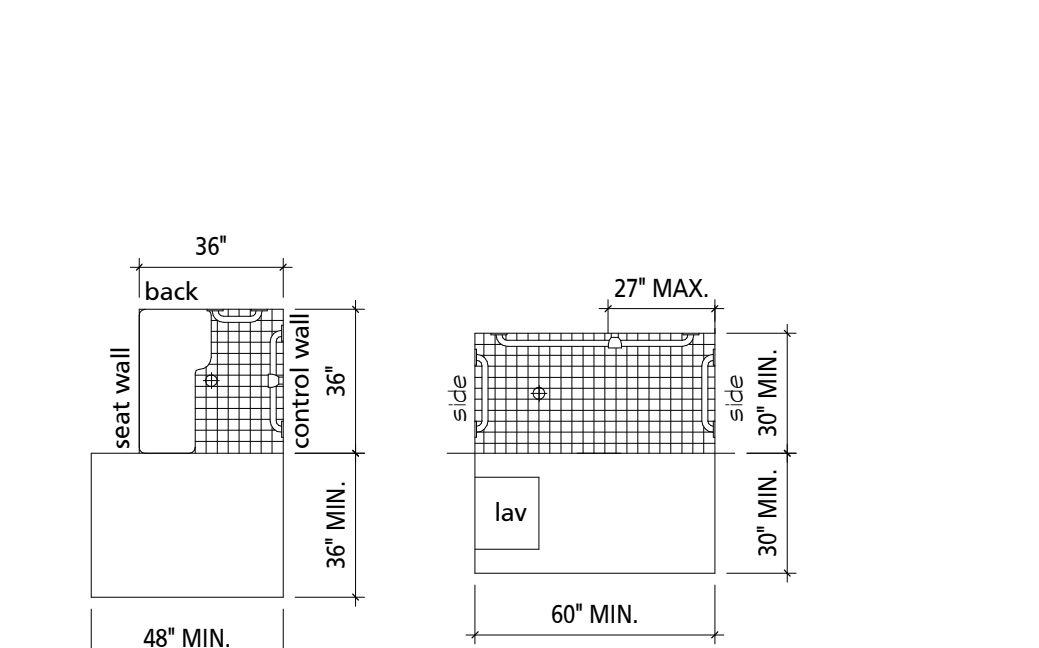
DRINKING FOUNTAINS (TYPICAL)
NOT TO SCALE



FLOOR CLEARANCES (TYPICAL)
NOT TO SCALE



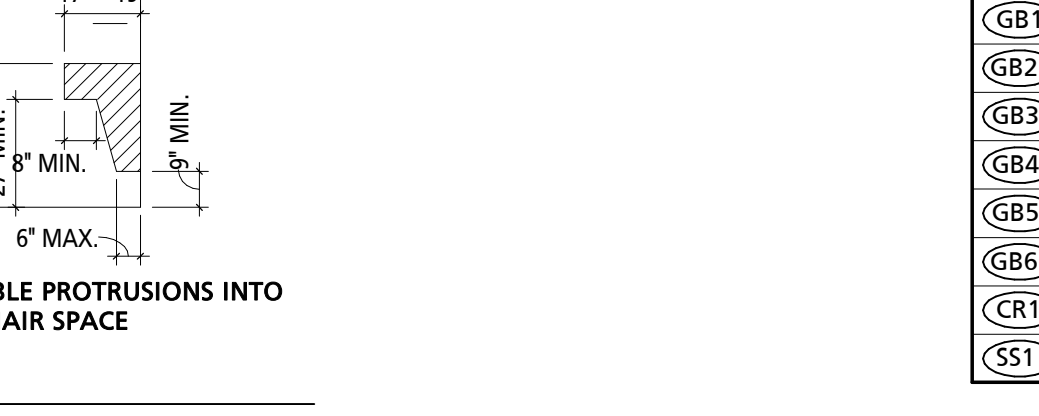
TYPICAL ACCESSIBLE MOUNTING HEIGHTS
NOT TO SCALE



SHOWERS (TYPICAL)
NOT TO SCALE



DECK SHOWERS
NOT TO SCALE



ALLOWABLE PROTRUSIONS INTO WHEELCHAIR SPACE

TAG	FIXTURE/ACCESSORY
GB1	GRAB BAR - 18"
GB2	GRAB BAR - 24"
GB3	GRAB BAR - 30"
GB4	GRAB BAR - 36"
GB5	GRAB BAR - 42"
GB6	GRAB BAR - 48"
CR1	SHOWER CURTAIN ROD
SS1	FOLDING SHOWER SEAT

NOTE: ALL CONTROLS SHALL NOT EXTEND ABOVE 48" FOR FRONT APPROACH & 54" FOR SIDE APPROACH. (SEE REACH RANGE DIAGRAMS.)
NOTE: NOT ALL ITEMS SHOWN MAY BE USED IN THIS BUILDING.

PROFESSIONAL CERTIFICATION		SEAL
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024		
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT	DGN BY: _____	
MANN'S WOODWARD STUDIOS 6000 SANDPIPER CTR, SUITE 111 NOTTINGHAM, MARYLAND 21155 (410) 441-1000	DWN BY: _____	
	CHRD BY: _____	DATE: _____

REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT		09/06/2023
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

ARCHITECTURAL	
N. ARUNDEL SWM CT-SPLASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS	
G003	TYPICAL ACCESSIBILITY GUIDELINES

STANDARD RESPONSIBILITY NOTES

- (I)WE CERTIFY THAT:
1. ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS SEDIMENT AND EROSION CONTROL PLAN AND FURTHER AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE ANNE ARUNDEL SOL CONSERVATION AASCD BOARD OF SUPERVISORS OR THEIR AUTHORIZED AGENTS.
2. ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.
3. RESPONSIBLE PERSONNEL ON SITE: GENERAL CONTRACTOR AND ENGINEER OF RECORD
4. IF APPLICABLE, THE APPROPRIATE ENCLOSURE WILL BE CONSTRUCTED AND MAINTAINED ON SEDIMENT BASIN(S) INCLUDED IN THIS PLAN. SUCH STRUCTURE(S) WILL BE IN COMPLIANCE WITH THE ANNE ARUNDEL COUNTY CODE.
5. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHT, AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL, PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THE PLAN.
6. FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT AND/OR TEMPORARY STABILIZATION PER THE AASCD DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS FOR THE SURFACE OF ALL CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
7. THE GRADING AND SEDIMENT CONTROL APPROVAL ON THIS PLAN EXTENDS ONLY TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE.
8. THE APPROVAL OF THIS PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH FEDERAL, STATE OR COUNTY REQUIREMENTS PERTAINING TO ENVIRONMENTAL ISSUES.
9. THE DEVELOPER MUST REQUEST THAT THE SEDIMENT AND EROSION CONTROL INSPECTOR APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THE ORDINANCE.
10. ALL MATERIALS SHALL BE TAKEN TO A SITE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN.
11. FIRST PHASE INSPECTION AND APPROVAL OF THE SEDIMENT AND EROSION CONTROL INSPECTOR SHALL BE REQUIRED UPON COMPLETION OF THE INSTALLATION OF EROSION AND SEDIMENT CONTROLS PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. THIS WILL REQUIRE FIRST PHASE INSPECTION, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE SEDIMENT AND EROSION CONTROL INSPECTOR IS GIVEN. INSPECTION AND PERMITS MAY ALSO REQUIRE THAT AN INSPECTION AND CERTIFICATION OF THE INSTALLATION OF SEDIMENT CONTROL ALSO BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION COMMENCING.
12. APPROVAL FROM THE INSPECTOR SHALL BE REQUESTED ON FINAL STABILIZATION OF ALL SITES BEFORE REMOVAL OF SEDIMENT AND EROSION CONTROLS.
13. EXISTING TOPOGRAPHY MUST BE FIELD VERIFIED BY RESPONSIBLE PERSONNEL TO THE SATISFACTION OF THE SEDIMENT CONTROL INSPECTOR PRIOR TO COMMENCING WORK.

Signature of Developer/Owner: KHADIJA ABDUR-RAHMAN, PROJECT MANAGER, 2525 RIVA ROAD, ANNAPOLIS, MD 21401. Date: 5/14/2024.

"All grading, drainage, structures and erosion and sediment control practices including facilities and vegetative measures have been completed in conformance with the approved plans."

STORMWATER MANAGEMENT RECORD DRAWING CERTIFICATION

This certifies to the best of my professional belief and knowledge, the approved S.W.M. system(s) as shown herein have been constructed in such a manner that would be consistent with the approved plans. Any changes/modifications are shown in RED.

Name: Khadija Abdur-Rahman, License Number: [blank], Date: [blank].

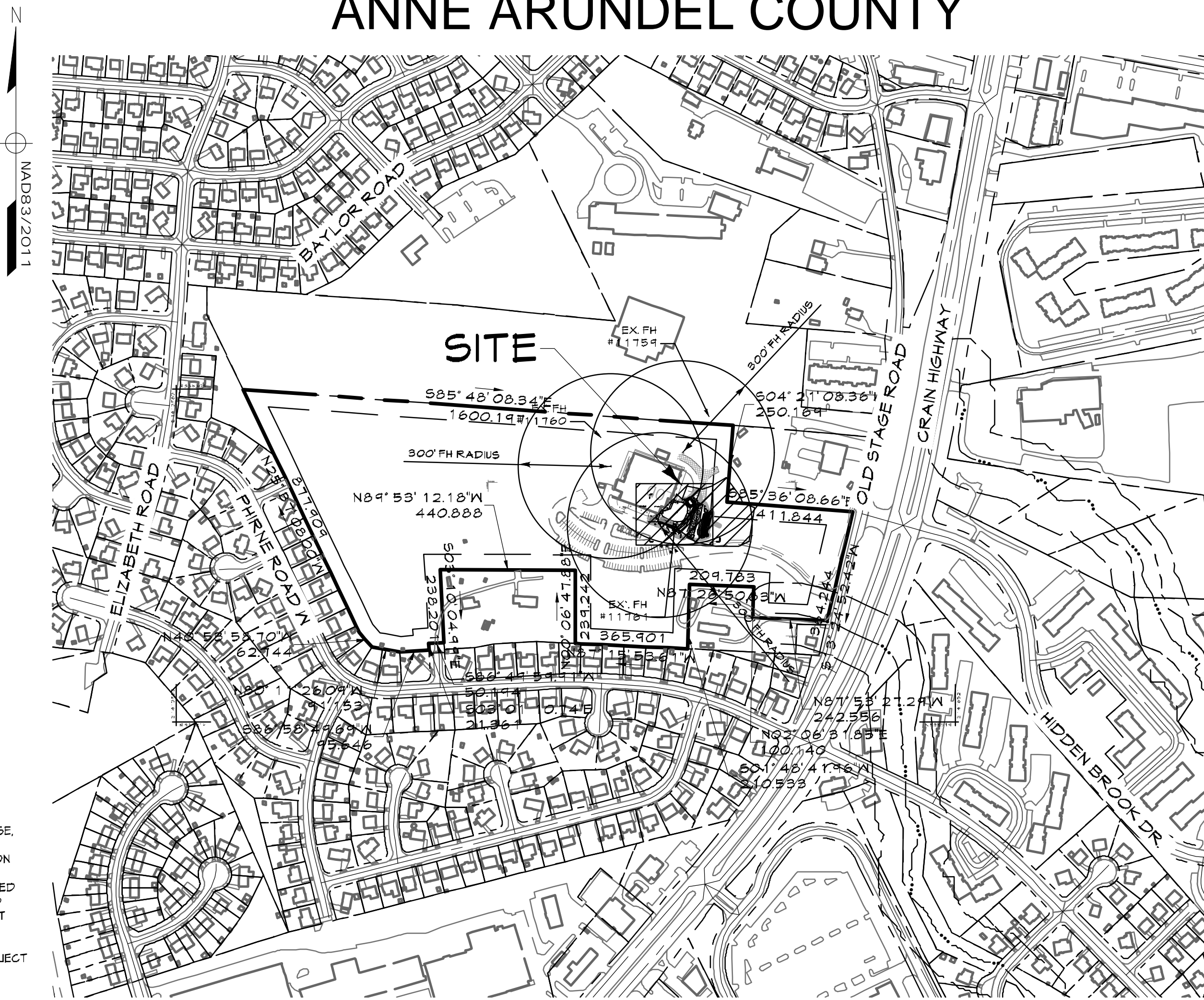
EXISTING LEGEND

- Site Property Boundary (dashed line)
Existing Minor Contour (dotted line)
Existing Major Contour (long dashed line)
Existing Stream (wavy line)
Existing Stream Buffer (wavy line with dots)
Existing Tree Line (wavy line with circles)
Existing Drive (solid line)
Existing Building (rectangle)
Existing B&E Utility Pole (circle with cross)
Existing Fence Line (line with X's)
Soil Line (line with A's)
Existing Sanitary Sewer (line with S's)
Existing Water Line (line with W's)
Existing Storm Drain (line with SD's)

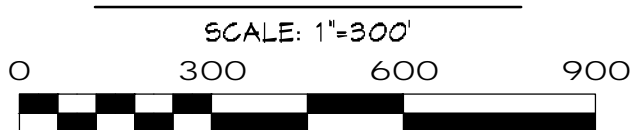
PROPOSED LEGEND

- Proposed Limit of Disturbance (LOD) (solid line)
Proposed Grades (dotted line)
Proposed Storm Water Facility (rectangle with dots)
Proposed Concrete Sidewalk (rectangle with dots)
Proposed Building (rectangle)
Proposed Utilities (line with X's)
Proposed Sanitary Sewer (line with S's)
Proposed Water Line (line with W's)
Proposed Storm Drain (line with SD's)

CIP# P570000
100% CONSTRUCTION DRAWINGS
NORTH ARUNDEL AQUATIC CENTER - SPLASH PAD EXPANSION
ANNE ARUNDEL COUNTY



LOCATION PLAN



CONSULTANT'S CERTIFICATION

The Developer's plan to control silt and erosion is adequate to contain the silt and erosion on the property covered by the plan. I certify that this plan of erosion and sediment control represents a practical and workable plan based on my personal knowledge of this site and was prepared in accordance with the requirements of the AASCD Plan Submittal Guidelines and the current Maryland Standards and Specifications for Soil Erosion and Sediment Control. I have reviewed this erosion and sediment control plan with the owner/developer.

MD P.E. License # 21875
MD Land Surveyor License # n/a
MD Landscape Architect # n/a
Name: PIERO V. MELLITS, P.E., LEED AP
Firm Name: CENTURY ENGINEERING, LLC
Address: 16901 MELFORD BOULEVARD, STE. 130
City: BOWIE, State: MD, Zip Code: 20715



ENGINEER: CENTURY ENGINEERING, A KLEINFELDER CO. 16901 MELFORD BLVD, SUITE 130 BOWIE, MD 20715. EMAIL: pmellits@kleinfelder.com

NOTE: SEQUENCE OF CONSTRUCTION ON SHEET COO4

NOTE: ALL ADJACENT PROPERTY INFORMATION SHOWN ON COO2.



VICINITY MAP SCALE: 1" = 200'

GENERAL NOTES:

- 1. OVERALL PROPERTY AREA = 1,056,835 SQ. FT., 24.3 AC.
2. TOTAL AREA TO BE DISTURBED = 20,124 SQ. FT., 0.46 AC.
3. AREA TO BE DEVELOPED IS WITHIN PROPERTY OWNED BY ANNE ARUNDEL COUNTY.
4. PUBLIC SEWER: 6"
5. PUBLIC WATER: 12"
6. PREDOMINANT SOIL TYPE: H56 A AND C SOILS.
7. THERE ARE NO HISTORIC FEATURES ON SITE.
8. THE SITE DOES NOT LIE WITHIN THE 100-YEAR FLOODPLAIN, AS SHOWN ON FIRM MAP NO. 240008-0011-G.
9. WATERSHED: PATAPSCO RIVER.
10. THE SITE HAS BEEN PREVIOUSLY DEVELOPED, SLOPE SLOPES PREPARED, PREVIOUSLY APPROVED SITE PLAN #31423.
11. NO FOREST OR OPEN SPACE WITHIN THE 100-YEAR FLOODPLAIN.
12. SITE ADDRESS: 1688 S. CRAIN HWY., GLEN BURNE, MD 21061.
13. ZONING: 06
14. CURRENT/PROPOSED USE: AQUATIC CENTER.
15. TAX MAP NO.: 15
16. BLOCK: N/A
17. PARCEL: 859
18. SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MARYLAND DEPARTMENT OF THE ENVIRONMENT AND ANNE ARUNDEL COUNTY SOIL CONSERVATION DISTRICT STANDARDS.
19. TOPOGRAPHY SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE HIGHWAY ADMINISTRATION (SHA) REQUIREMENTS AND STANDARDS, THE REQUIREMENTS OF THE ANNE ARUNDEL COUNTY GRADING ORDINANCE AND THE ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS 'STANDARD DRAWINGS FOR CONSTRUCTION' AND 'STANDARD SPECIFICATIONS FOR CONSTRUCTION', DATED JANUARY 2001 AND ALL APPLICABLE ADDENDA, UNLESS OTHERWISE NOTED.
20. SHOULD A CONFLICT ARISE BETWEEN THE APPLICABLE STANDARD SPECIFICATIONS AND DETAILS AND THESE DRAWINGS, THE MOST STRINGENT REQUIREMENT AS DETERMINED BY THE ENGINEER, SHALL BE ENFORCED. THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH ANY WORK WHICH MAY BE IN QUESTION.
21. THE DEVELOPER SHALL NOTIFY THE ANNE ARUNDEL COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS AT (410-222-1180) WHEN CLEARING AND GRADING IS TO START.
22. TOTAL CUT = 120 CU YDS.
TOTAL FILL = 618 CU YDS.
NET = 498 CU YDS BORROW MATERIAL.
23. DISTURBED AREA = 20,124 SQ. FT., 0.46 AC.
AREA TO BE VEGETATIVELY STABILIZED = 8,143 SQ. FT., 0.19 AC.
AREA TO BE MECHANICALLY STABILIZED = 11,981 SQ. FT., 0.28 AC.
24. ANY BORROW WILL COME FROM A SITE OR ANY SPILL WILL BE PLACED ON A SITE APPROVED BY ANNE ARUNDEL COUNTY AS ACCEPTABLE, WITH AN ACTIVE/ APPROVED EROSION AND SEDIMENT CONTROL PLAN.
25. TOPOGRAPHY INFORMATION SHOWN HEREON IS BASED ON FIELD SURVEY PERFORMED BY CENTURY ENGINEERING, A KLEINFELDER COMPANY, DATED AUGUST, 2022, AND SUPPLEMENTED WITH THE BEST AVAILABLE ANNE ARUNDEL COUNTY GIS RECORDS.
26. BOUNDARY INFORMATION SHOWN HEREON IS BASED ON FIELD SURVEY PERFORMED BY CENTURY ENGINEERING, A KLEINFELDER COMPANY, DATED AUGUST, 2022, AND SUPPLEMENTED WITH THE BEST AVAILABLE ANNE ARUNDEL COUNTY GIS RECORDS.
27. THE CONTRACTOR SHALL NOTIFY THE ANNE ARUNDEL COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS (410-222-1180) AND (410-222-1597), 48 HOURS BEFORE STARTING WORK ON THESE DRAWINGS.
28. THE CONTRACTOR SHALL NOTIFY M&E UTILITY (1-800-287-1111 OR 811) TWO (2) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
29. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN HEREON ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR(S) TO THEIR OWN SATISFACTION PRIOR TO CONSTRUCTION. NEITHER THE OWNER NOR THE ENGINEER WARRANT OR GUARANTEE THE COMPLETENESS OR CORRECTNESS OF THE INFORMATION SHOWN HEREON.
30. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS, AND ANY DAMAGE TO THEM DUE TO HIS NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF HIS CONSTRUCTION WITH THE CONSTRUCTION BY OTHER CONTRACTORS.
32. ALL DISTURBED AREAS NOT OTHERWISE DELINEATED FOR BUILDING, PAVING, SOIL, STONE OR RIP-RAP SHALL BE PERMANENTLY SEEDED OR SOEDED IN ACCORDANCE WITH MARYLAND DEPARTMENT OF THE ENVIRONMENT SPECIFICATIONS INCLUDED HEREIN.
33. STRUCTURAL FILL FOR PAVED AND BUILDING AREAS SHALL BE COMPACTED TO 95% MINIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR). COMPACTION TESTS IN PAVED AREAS SHALL BE TAKEN TO SUBBASE AND MINIMUM 15 FEET BELOW LIMITS OF PAVED AREAS. FOR BUILDINGS, ENTIRE GRADED AREA SHALL BE COMPACTED TO SUB-FLOOR ELEVATION. ALL OTHER FILL SHALL BE TYPE 2 PER THE ANNE ARUNDEL COUNTY GRADING ORDINANCE AND COMPACTED TO 90% MINIMUM DENSITY UNLESS OTHERWISE NOTED. ALL FILL SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
34. THE EARTHWORK QUANTITIES SHOWN HEREON ARE BASED ON CONVENTIONAL ASSUMPTIONS AND ARE PROVIDED SOLELY FOR THE PURPOSE OF ESTABLISHING THE MAGNITUDE OF EARTHWORK. THESE QUANTITIES ARE FOR PERMIT PROCESSING AND SHALL NOT BE USED FOR BID OR PAYMENT PURPOSES.
35. NO PORTIONS OF THIS SITE LIE WITHIN THE 100-YEAR FLOODPLAIN.
36. THE COORDINATES, BEARINGS AND ELEVATIONS SHOWN ON THESE PLANS ARE REFERENCED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM (NAD 83 / NAVD 88) AS ESTABLISHED BY GPS.
37. CONSTRUCTION ACTIVITY FOR THIS SITE IS COVERED UNDER THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION GENERAL PERMIT FOR CONSTRUCTION ACTIVITY (NPDES PERMIT NO. MDCR08011). THIS SITE IS NOT LOCATED WITHIN THE CHESAPEAKE BAY WATERSHED.
38. THE LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. ALL UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFERENCE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. TELEPHONE, CABLE, FIBER, OPTIC, CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE, SHALL BE VERTICALLY AND HORIZONTALLY LOCATED. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE DEVELOPER OR ENGINEER. THE CONTRACTOR TO PROVIDE STRUCTURAL SHOP DRAWINGS OF THE PROPOSED PRECAST CAST-IN-PLACE STRUCTURES, SIGNED/SEALED BY A MARYLAND REGISTERED PROFESSIONAL ENGINEER, PRIOR TO INSTALLATION.
41. ALL SEDIMENT AND EROSION CONTROL PRACTICES AND VEGETATIVE STABILIZATION SHALL BE IN ACCORDANCE WITH THE '2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL'.
42. CONTRACTOR SHALL MINIMIZE DISTURBED AREA AS MUCH AS PRACTICAL BY APPLYING TEMPORARY STABILIZATION TO AREAS THAT ARE LEFT UNTOUCHED FOR (1) CALENDAR DAYS.
43. CONTRACTOR SHALL INSPECT AND MAINTAIN SEDIMENT CONTROL MEASURES AS NECESSARY, AFTER EACH RAIN EVENT.
44. CONTRACTOR SHALL NOT GRADE OR CLEAR OUTSIDE THE LIMIT OF DISTURBANCE AS SHOWN ON THESE PLANS.
45. DEVELOPER MAY REQUEST BOND REDUCTIONS AT 50% AND 75% OF COMPLETION OF WORK.
46. FOS SHALL BE MAINTAINED AT ALL TIMES AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.
47. BOUNDARY INFORMATION SHOWN HEREON PROVIDED FROM BEST AVAILABLE RECORDS.

ADA COMPLIANCE NOTE

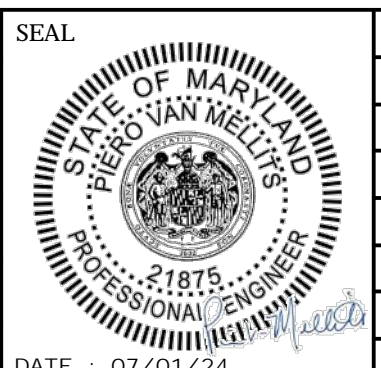
IN ORDER TO MEET THE ADOPTED 2010 ADA MINIMUM REQUIREMENTS AND IN ACCORDANCE WITH THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAGS) PUBLISHED BY THE US ACCESS BOARD IN 2011, ALL PUBLIC AND PRIVATE PEDESTRIAN ACCESS ROUTES, SIDEWALKS, CURB AND GUTTER, CURB RAMPS, AND TRAFFIC CONTROL DEVICES SHALL BE DESIGNED IN ACCORDANCE WITH THE ANNE ARUNDEL COUNTY PEDESTRIAN FACILITY STANDARDS PF 1-PP2.

INDEX OF SHEET

Table with 2 columns: Sheet Name and Sheet Number. Includes COVER SHEET (COO1), OVERALL EXISTING CONDITIONS PLAN (COO2), EXISTING CONDITIONS PLAN (COO3), OVERALL SITE LAYOUT PLAN (COO4 (SOC)), SITE LAYOUT AND GRADING PLAN (COO5), UTILITY PLAN (COO6), SITE AND UTILITY DETAILS (COO7), PROPOSED STORMWATER MANAGEMENT PLAN (COO8), STORMWATER MANAGEMENT DETAILS (COO9), DOWNSTREAM OUTFALL ANALYSIS (CO10), EXISTING DRAINAGE AREA MAP (CO10A), PROPOSED DRAINAGE AREA MAP (CO11), STORMWATER MANAGEMENT DRAINAGE AREA MAP (CO12), STORM DRAIN PROFILE (CO13), WATER AND SEWER PROFILES (CO14), LANDSCAPE PLAN (CO15), LANDSCAPE DETAILS (CO16), EROSION AND SEDIMENT CONTROL PLAN - PHASE 1 (CO17A), EROSION AND SEDIMENT CONTROL PLAN - PHASE 2 (CO17B), EROSION AND SEDIMENT CONTROL PLAN - PHASE 3 (CO17C), EROSION AND SEDIMENT CONTROL NOTES (CO18), EROSION AND SEDIMENT CONTROL DETAILS (CO19).

PROFESSIONAL CERTIFICATION

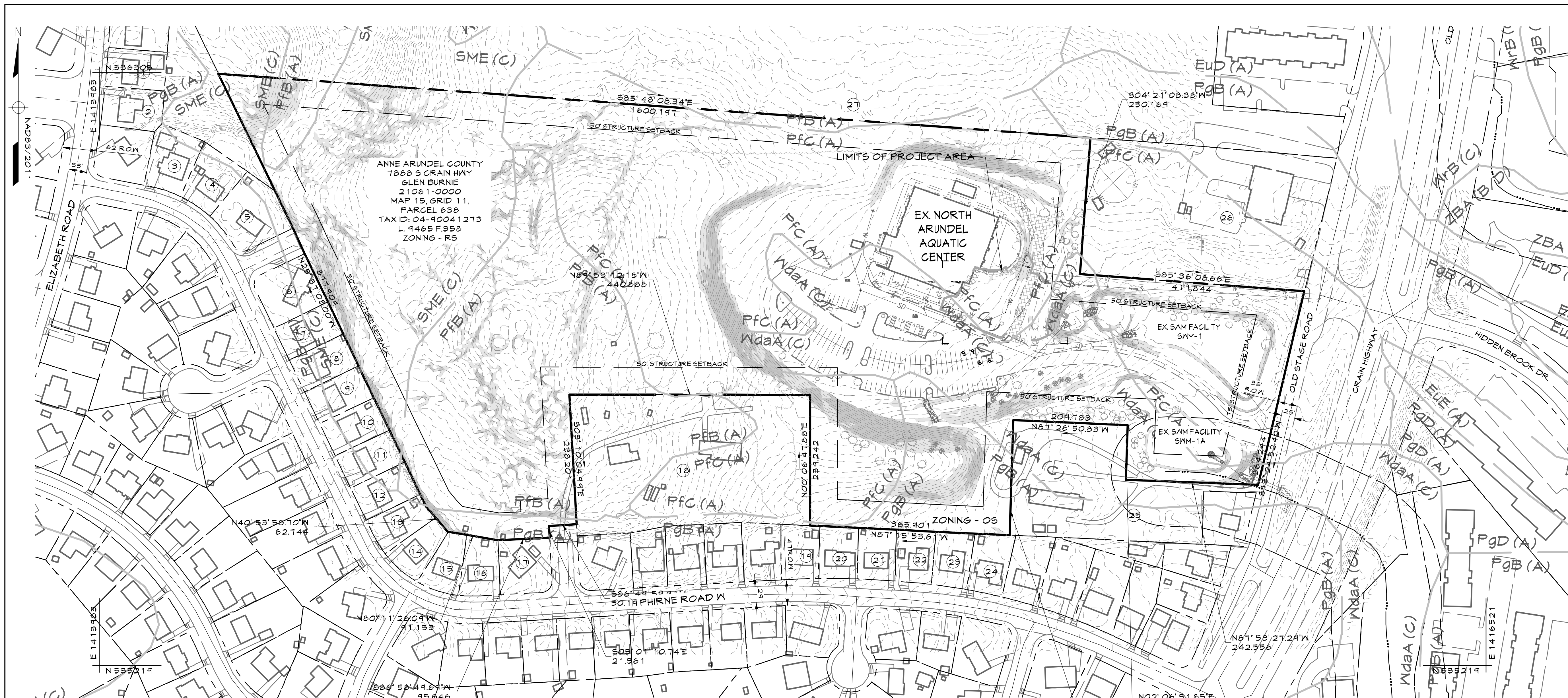
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 21875. EXPIRATION DATE: 02-12-2028. CENTURY ENGINEERING logo.



REVISION table with columns: NO., DESCRIPTION, BY, DATE. Includes 60% DESIGN DEVELOPMENT, 90% CONSTRUCTION DOCUMENTS, 100% CONSTRUCTION DOCUMENTS.

APPROVAL table with columns: NAME, DATE, TITLE. Includes APPROVED, CHIEF ENGINEER, ASSISTANT CHIEF ENGINEER.

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS. 100% CONSTRUCTION DOCUMENTS. NAAC SPLASH PAD. C001 COVER SHEET CIP# P570000.



EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing B&E Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Water Line
- Existing Storm Drain
- Existing Fire Lane
- Existing RipRap
- LIMIT OF DISTURBANCE
- 15%-25% Slopes
- Greater Than 25% Slopes

OVERALL EXISTING CONDITIONS
SCALE: 1"=100'
0 100' 200' 300'

	K	Hydric	HSG	Drainage class	
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	0.05	NO	A	Excessively drained
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	0.05	NO	A	Excessively drained
FrA	Fallsington-Urban land complex, 0 to 2 percent slopes	0.2	YES	B/D	Poorly drained
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	0.02	NO	A	Somewhat excessively drained
PfC	Patapsco-Fort Mott complex, 5 to 10 percent slopes	0.02	NO	A	Somewhat excessively drained
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	0.02	NO	A	Somewhat excessively drained
PgD	Patapsco-Fort Mott-Urban land complex, 5 to 15 percent slopes	0.02	NO	A	Somewhat excessively drained
SME	Sassafras and Croom soils, 15 to 25 percent slopes	0.15	NO	C	Well drained
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	0.24	NO	B	Well drained
UoB	Udorthents, loamy, 0 to 5 percent slopes	0.37	NO	C	Well drained
Uz	Urban land	NO	NO	D	
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	0.24	NO	C	Moderately well drained
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	0.28	NO	C	Moderately well drained
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	0.32	YES	B/D	Poorly drained

EXISTING BOUNDARY AND TOPOGRAPHY FOR THIS SITE IS PROVIDED BY FIELD RUN SURVEY BY CENTURY ENGINEERING ON 8-11-2022 AND SUPPLEMENTED WITH THE BEST AVAILABLE ANNE ARUNDEL COUNTY RECORDS. COORDINATES, BEARINGS AND DISTANCES ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM (NAD 83/2011) VIA GPS AND TIED TO THE FOLLOWING LEICA SMART NET NGS CORS REFERENCE STATION NETWORK STATIONS:

MDAN-368 N 533,551.9866 E 1,371,782.9323 ELEV 225.5024

ADJACENT PROPERTY INFORMATION

1 NOE KRISTEN M 514 ELIZABETH RD GLEN BURNIE MD 2106 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 09584000 DEED REF: /38559/00210	7 EVANS SCOTT 415 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 01810101 DEED REF: /31004/00410	13 RATZBURG DAVID S, RATZBURG LORI A 403 PHIRNE RD A, GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0143 TAX ID: 01833400 DEED REF: /06257/00281	22 MOCCHI OSCAR, MOCCHI MICHELLE A 371 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0011, PARCEL-0640 TAX ID: 06500800 DEED REF: /32285/00147
2 HAWKINS JR P C, HAWKINS JR 517 ELIZABETH RD GLEN BURNIE MD 2106 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 02424670 DEED REF: /01944/00125	8 JAMES I ROBERTA RENEE FAW TRUST 413 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 04732025 DEED REF: /21960/00023	14 ESCOBAR LETY AYALA, AYALA MACHADO 401 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0143 TAX ID: 08281300 DEED REF: /32447/00268	29 SIMEONA TALITHA 375 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0011, PARCEL-0640 TAX ID: 04118500 DEED REF: /31562/00005
3 LEE MICHAEL B, LEE MONIQUE A 423 PHIRNE RD W GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 05600300 DEED REF: /06066/00068	9 EID ELIAS 411 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 01498700 DEED REF: /15045/00236	15 HANES RICHARD W, HANES J M PO BOX 496, GLEN BURNIE MD 21060 MAP-0015, GRID-0010, PARCEL-0143 TAX ID: 02424480 DEED REF: /01976/00517	24 YEO STEVEN B, YEO URSULA M 373 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0011, PARCEL-0640 TAX ID: 25968400 DEED REF: /03144/00567
4 BYRD LISA M 421 PHIRNE RD A GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 02714700 DEED REF: /11031/00142	10 MOORE BENJAMIN J 404 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 06245300 DEED REF: /07443/00616	16 SIDER SCOTT W 397 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0011, PARCEL-0640 TAX ID: 05352400 DEED REF: /18473/00425	25 LOWMAN FLORENCE M, LOWMAN H M 7842 CRAIN HWY S, GLEN BURNIE MD 21061 MAP-0015, GRID-0011, PARCEL-0381 TAX ID: 03380100 DEED REF: /02148/00418
5 ANDRULIEWICZ EDWARD D, ANDRULIEWICZ KIM JA 414 PHIRNE RD GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 01880600 DEED REF: /09250/00240	11 RUHL JEFFREY M, RUHL LINDA K 407 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0143 TAX ID: 06059210 DEED REF: /05225/00452	17 ARNOLD JOHN W, ARNOLD MARY S 395 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0011, PARCEL-0640 TAX ID: 00107000 DEED REF: /01138/00118	26 ANNE ARUNDEL COUNTY 7842 CRAIN HWY S, GLEN BURNIE MD 21061 MAP-0015, GRID-0011, PARCEL-0381 TAX ID: 00107000 DEED REF: /01138/00118
6 GRAHAM DONALD H, GRAHAM DEBORAH M 417 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0189 TAX ID: 04405200 DEED REF: /04215/00432	12 FOSTER MICHAEL W, FOSTER APRIL A 405 PHIRNE RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0010, PARCEL-0143 TAX ID: 08464021 DEED REF: /24944/00288	18 VANMETER ABRAHAM L 1410 BUFORD RD, GLEN BURNIE MD 21061 MAP-0015, GRID-0011, PARCEL-1047 TAX ID: 08464021 DEED REF: /05246/00181	27 BOARD OF EDUCATION OF ANNE ARUNDEL COUNTY 2644 RIVA RD, ANNAPOLIS MD 21401 MAP-0015, GRID-0011, PARCEL-0636 TAX ID: 00043211 DEED REF: /01445/00247

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. 21875 EXPIRATION DATE: 02-12-2026

CENTURY ENGINEERING
A Kleinfelder Company
16911 Market Blvd, Suite 100, Beltsville, MD 20715
Phone: 410-389-9800 www.centuryeng.com

DESIGNED BY: JLA
DRAWN BY: GP
CHECKED BY: JLA/PVM
DATE: 07/01/24



REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
PROJECT MANAGER	DATE	PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE	CHIEF ENGINEER	DATE
ASSISTANT CHIEF ENGINEER	DATE	ASSISTANT CHIEF ENGINEER	DATE

SCALE: AS INDICATED
DRAWN BY: JA/GP
CHECKED BY: PVM
SHEET NO: 002
PROJECT NO: P570000
PROPOSAL NO: P570003

100% CONSTRUCTION DOCUMENTS

NAAC SPLASH PAD

C002

OVERALL EXISTING CONDITIONS PLAN
CIP# P570000

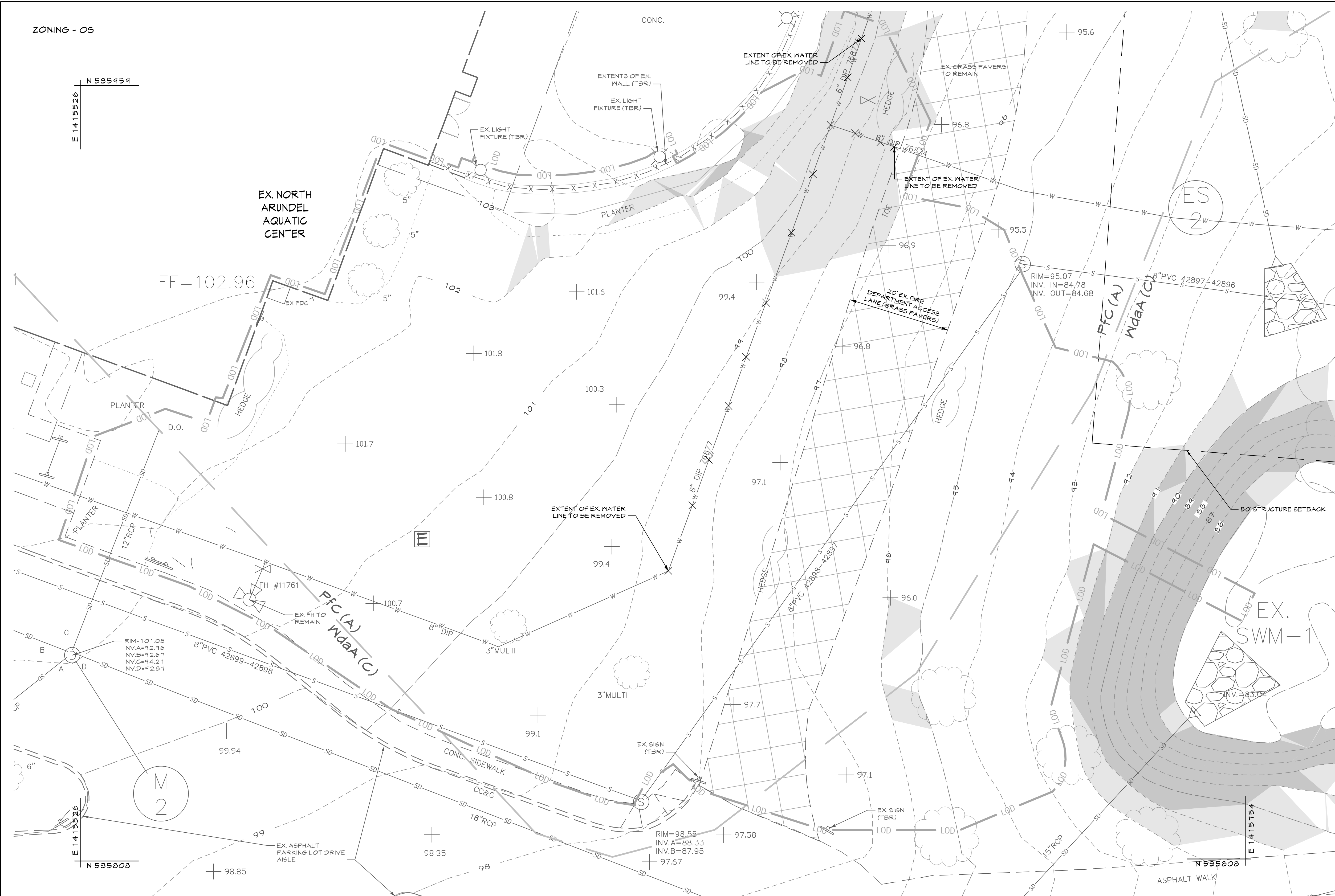
ZONING - 05

N 535454
E 1415526

NAD83/2011

EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing B&E Utility Pole
- Existing Fence Line
- Soil Line
- SOIL HSG
- Existing Sanitary Sewer
- Existing Water Line
- Existing Storm Drain
- Existing Fire Lane
- Existing RipRap
- 50' Structure Setback
- LOD LIMIT OF DISTURBANCE
- 15%-25% Slopes
- Greater Than 25% Slopes



EXISTING CONDITIONS PLAN
SCALE: 1"=10'
0 10' 20' 30'

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. 21875 EXPIRATION DATE: 02-12-2028

MANN WOODWARD ENGINEERING
A Kleinfelder Company
15011 Middlefield Blvd., Suite 100 • Bowie, MD 20715
Phone: 410.328.2400 Fax: 410.328.2401

DRAWN BY: JH
DOWN BY: GP
CHECKED BY: JA, PM
DATE: 07/01/24



REVISION			
NO.	DESCRIPTION	BY	DATE
60	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

APPROVED		DATE
	CHIEF ENGINEER	
	PROJECT MANAGER	
	CHIEF, RIGHT OF WAY SERVICES	

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	
SCALE: AS INDICATED	100% CONSTRUCTION DOCUMENTS
DRAWN BY: JA/GP	CHECKED BY: PVM
SHEET NO.: C003	PROJECT NO.: P570000
PROPOSAL NO.: P570003	

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.



EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing BGE Utility Pole
- Existing Fence Line
- SOIL SERIES Av (C) Soil Line
- SOIL HSG S Existing Sanitary Sewer
- W Existing Water Line
- SD Existing Storm Drain
- Existing Fire Lane
- Existing RipRap

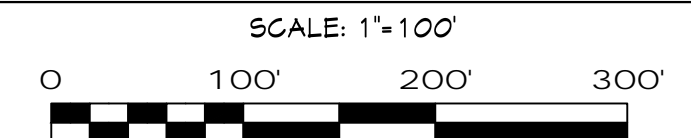
PROPOSED LEGEND

- LOD Proposed Limit of Disturbance
- 660 Proposed Grades
- 650 Proposed Fence
- Proposed Concrete Sidewalk
- Proposed Pump House Building
- Proposed Storm Water Facility
- 15%-25% Slopes
- Greater Than 25% Slopes

SEQUENCE OF CONSTRUCTION

- PHASE 1 (SEDIMENT CONTROLS)**
- CONDUCT PRE-CONSTRUCTION MEETING, NOTIFY THE DEPARTMENT OF INSPECTIONS AND PERMITS AT LEAST 48 HOURS BEFORE COMMENCING WORK AT (410) 222-1180. WORK MAY NOT COMMENCE UNTIL THE PERMITEE OR THE RESPONSIBLE PERSONNEL HAVE MET ON SITE WITH THE AA CO. SEDIMENT AND EROSION CONTROL INSPECTOR TO REVIEW THE APPROVED PLANS.
DURATION: 1 DAY
NOTE: THE PERMITEE OR CONTRACTOR SHALL NOT COMMENCE WITH CLEARING OR ANY EARTH DISTURBANCE ACTIVITIES ON THE SITE DURING OR BEFORE PREDICTED WET WEATHER EVENTS. ONCE SITE WORK BEGINS, CLEARING AND GRUBBING ACTIVITIES SHALL BE FOR THE INSTALLATION AND STABILIZATION OF THE PERIMETER EROSION CONTROL MEASURES ONLY. EXISTING TOPOGRAPHY MUST BE FIELD VERIFIED FOR THE SEDIMENT CONTROL INSPECTOR PRIOR TO COMMENCING WORK.
 - CLEAR WALKWAY TO INSTALL STABILIZED CONSTRUCTION ENTRANCE AND ALL SEDIMENT CONTROLS, INCLUDING SUPER SILT FENCE, TREE PROTECTION/ORANGE SAFETY FENCE, INLET PROTECTION, AS NEEDED, AND 2-FT BERM, AS SHOWN ON PLAN. NO CLEARING OR GRADING IS TO BE DONE EXCEPT WHERE NECESSARY FOR THE INSTALLATION OF SEDIMENT CONTROLS.
DURATION: 2 DAYS
 - CONTRACTOR IS TO ESTABLISH STAGING/LAYDOWN AREAS. MECHANICAL STABILIZATION WILL BE REQUIRED ON THE STAGING/LAYDOWN AREAS AND HEAVY USE AREAS, INCLUDING TRAVEL LANES. WOOD CHIPS MAY BE UTILIZED WITH APPROVAL FROM GRADING INSPECTOR.
DURATION: 2 DAYS
 - CONTACT THE INSPECTOR FOR APPROVAL OF SEDIMENT CONTROL INSTALLATION. INSPECTIONS AND PERMITS MAY REQUIRE THAT AN INSPECTION AND CERTIFICATION OF THE INSTALLATION OF SEDIMENT CONTROLS ALSO BE PERFORMED BY A DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION COMMENCING.
DURATION: 1 DAY
- PHASE 2 (INFRASTRUCTURE)**
- CLEAR, GRUB AND ROUGH GRADE REMAINDER OF SITE ONLY AS SHOWN WITHIN THE LIMITS OF DISTURBANCE. ESTABLISH A STOCKPILE AREA WITH REINFORCED SILT FENCE WRAPPED ON THE LOW SIDE. AS THE GRADING PROCEEDS ESTABLISH BUILDING PAD (PUMP HOUSE) AND PROVIDE TEMPORARY STABILIZATION. HAUL ALL DEBRIS TO AN APPROVED SITE.
DURATION: 5 DAYS
 - EXISTING GRASS PAVED SURFACE TO BE REMOVED AND GRAVEL SUBBASE INSTALLED, IMMEDIATELY FIRE ACCESS TO REMAIN FOR THE DURATION OF CONSTRUCTION.
DURATION: 2 WEEKS
 - AS SPLASH PAD IS BROUGHT TO SUB-GRADE BEGIN INSTALLATION OF FIRE LANE, GENER. WATER, PUMP HOUSE CONNECTIONS, TRENCH DRAINS TD-1A TO I-2 AND INLET PROTECTION(S).
DURATION: 7 DAYS
 - BEGIN SPLASH PAD AND CONCRETE WALKWAY INSTALLATION.
DURATION: 5 DAYS
 - ESTABLISH AND PLACE TEMPORARY VEGETATIVE OR MECHANICAL COVER ON ALL DISTURBED AREAS.
DURATION: CONTINUOUS
- PHASE 3 (DEVELOPMENT/SWM)**
- CONSTRUCT PROPOSED FOUNDATION AND ASSOCIATED IMPROVEMENTS. CONSTRUCTION OF THE FLOOR WALLS OF ANY BUILDING OR STRUCTURE MAY NOT PROCEED UNTIL THE FOUNDATION HAS BEEN BACKFILLED AND ALL DISTURBED AREAS WITHIN THE LIMITS OF DISTURBANCE HAVE BEEN PERMANENTLY OR TEMPORARILY STABILIZED. A CERTIFICATE IS TO BE PROVIDED BY THE ENGINEER TO THE INSPECTOR VERIFYING THE GRADES AND DRAINAGE PATTERNS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN OBTAINED.
DURATION: 3 WEEKS
 - ONCE THE SITE IS STABILIZED, WITH THE GRADING INSPECTOR'S APPROVAL, FRAMING MAY COMMENCE ABOVE THE GROUND FLOOR. DURING BUILDING CONSTRUCTION BEYOND THE GROUND FLOOR, ALL DISTURBED AREAS MUST BE STABILIZED AT THE END OF EACH BUSINESS DAY. ALL AREAS ARE TO BE VEGETATIVE STABILIZED PER THE ANNE ARUNDEL SOIL CONSERVATION DISTRICTS DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT.
DURATION: 3 WEEKS
 - ONCE UPSTREAM AREAS ARE 75% STABILIZED, INSTALL DIVERSION BERM BEGIN SWM SYSTEMS AND DEVICES AND/OR PLANTINGS. (SEDIMENT IS TO BE PREVENTED FROM ENTERING SWM SYSTEMS DURING CONSTRUCTION; INFLOW PIPES TO BE CONNECTED AFTER CONTRIBUTING DRAINAGE AREAS ARE ALSO STABILIZED.) THE ENGINEER MUST CERTIFY SWM INSTALLATION.
DURATION: 2 WEEKS
 - COMPLETE THE FINAL GRADING, BEGIN 8' FENCE/GATE AND LANDSCAPE INSTALLATION AND STABILIZE.
DURATION: 2 WEEKS
 - OBTAIN INSPECTOR'S APPROVAL TO REMOVE SEDIMENT CONTROL MEASURE AND PERMANENTLY STABILIZE.
DURATION: 2 DAYS
- NOTE: DURATIONS FOR TASKS, SHOWN ABOVE, ARE ESTIMATES. THE CONTRACTOR SHALL ADJUST TIMELINES AS NECESSARY, WITH APPROVAL FROM THE ANNE ARUNDEL COUNTY, SEDIMENT CONTROL INSPECTOR.

PROPOSED OVERALL SITE LAYOUT



EXISTING BOUNDARY AND TOPOGRAPHY FOR THIS SITE IS PROVIDED BY FIELD RUN SURVEY BY CENTURY ENGINEERING ON 8-11-2022 AND SUPPLEMENTED WITH THE BEST AVAILABLE ANNE ARUNDEL COUNTY RECORDS. COORDINATES, BEARINGS AND DISTANCES ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM (NAD 83/2011) VIA GPS AND TIED TO THE FOLLOWING LEICA SMART NET N65 CORS REFERENCE STATION NETWORK STATIONS:
MDAN-966 N 933,501.9066 E 1,311,702.9323 ELEV 225.5024

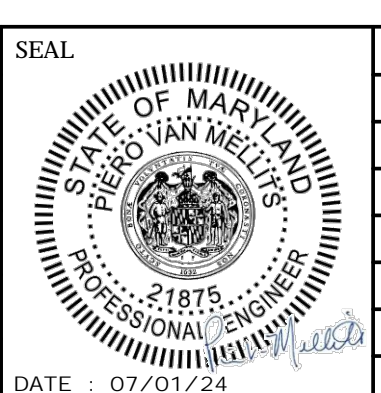
	K	Hydric	HSG	Drainage class	
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	0.05	NO	A	Excessively drained
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	0.05	NO	A	Excessively drained
FrA	Fallsington-Urban land complex, 0 to 2 percent slopes	0.2	YES	B/D	Poorly drained
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	0.02	NO	A	Somewhat excessively drained
PfC	Patapsco-Fort Mott complex, 5 to 10 percent slopes	0.02	NO	A	Somewhat excessively drained
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	0.02	NO	A	Somewhat excessively drained
PgD	Patapsco-Fort Mott-Urban land complex, 5 to 15 percent slopes	0.02	NO	A	Somewhat excessively drained
SME	Sassafras and Croom soils, 15 to 25 percent slopes	0.15	NO	C	Well drained
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	0.24	NO	B	Well drained
UoB	Udorthents, loamy, 0 to 5 percent slopes	0.37	NO	C	Well drained
Uz	Urban land		NO	D	
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	0.24	NO	C	Moderately well drained
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	0.28	NO	C	Moderately well drained
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	0.32	YES	B/D	Poorly drained

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. 21875 EXPIRATION DATE: 02-12-2028

CENTURY ENGINEERING
A Kleinfelder Company
18001 Market Blvd, Suite 1100, Bowie, MD 20715
Phone: 443.268.2400 www.centuryeng.com

DESIGNED BY: JA
DRAWN BY: GP
CHECKED BY: JA/PM
DATE: 07/01/24



REVISION			
NO.	DESCRIPTION	BY	DATE
60	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
80	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

SCALE: AS INDICATED
DRAWN BY: JA/GP
CHECKED BY: PVM
SHEET NO: 0000
PROJECT NO.: P570000
PROPOSAL NO.: P570003

100% CONSTRUCTION DOCUMENTS

NAAC SPLASH PAD

C004
OVERALL SITE LAYOUT PLAN
CIP# P570000



EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing BGE Utility Pole
- Existing Fence Line
- Soil Series: Av (C) Soil Line
- Existing Sanitary Sewer
- Existing Water Line
- Existing Storm Drain
- Existing Fire Lane
- Existing RipRap

PROPOSED LEGEND

- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Fence
- Proposed Concrete Sidewalk
- Proposed 5" Slab w/ 4" Porous Fill
- Proposed Pump House Building
- Proposed Storm Water Facility
- Proposed Rip-Rap
- 15%-25% Slopes
- Greater Than 25% Slopes
- Proposed Bench
- Proposed Inlet
- Proposed Storm Drain Pipe
- Proposed Spot Elevation

RISER SECTION
SCALE: 1" = 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. 21875 EXPIRATION DATE: 02-12-2026

M CENTURY ENGINEERING
A Kleinfelder Company

DESIGN BY: JLA
DRAWN BY: GP
CHECKED BY: JLP/M



REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

SCALE: AS INDICATED

DRAWN BY: JA/GP

CHECKED BY: PVM

SHEET NO.: C005

PROJECT NO.: P570000

PROPOSAL NO.: P570003

100% CONSTRUCTION DOCUMENTS

NAAC SPLASH PAD

C005

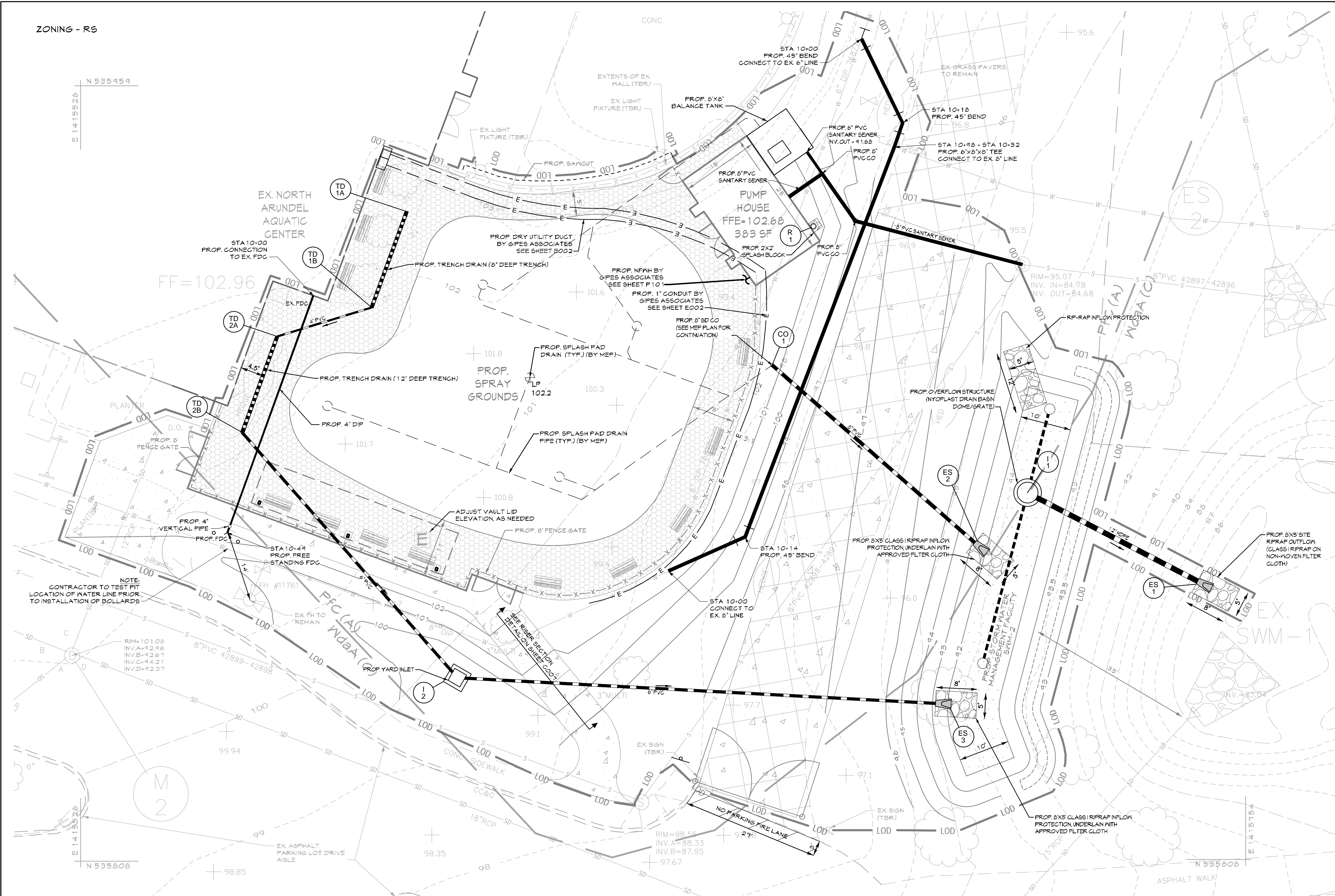
SITE LAYOUT AND GRADING PLAN
CIP# P570000

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.

ZONING - R6

N 535959
E 1415526

NAD83/2011



EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing B&E Utility Pole
- Existing Fence Line
- Existing Sanitary Sewer
- Existing Water Line
- Existing Storm Drain
- Existing Fire Lane
- Existing RipRap

PROPOSED LEGEND

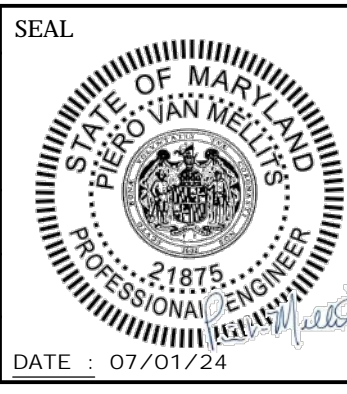
- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Fence
- Proposed Concrete Sidewalk
- Proposed Pump House Building
- Proposed Storm Water Facility
- Proposed Sanitary Sewer
- Proposed Water Line
- Proposed Storm Drain
- Proposed Rip-Rap
- Proposed Underground Electric By Gipes Associates

PROPOSED UTILITY PLAN
SCALE: 1"=10'
0 10' 20' 30'

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. 21875 EXPIRATION DATE: 02-12-2026

MANN WOODWARD ENGINEERING
A Kleinfelder Company
16901 Manassas Station, Suite 100, Manassas, MD 20108
Phone: 703.289.2400 www.mannwoodward.com

DESIGNED BY: JLA
DRAWN BY: GP
CHECKED BY: JVP/M

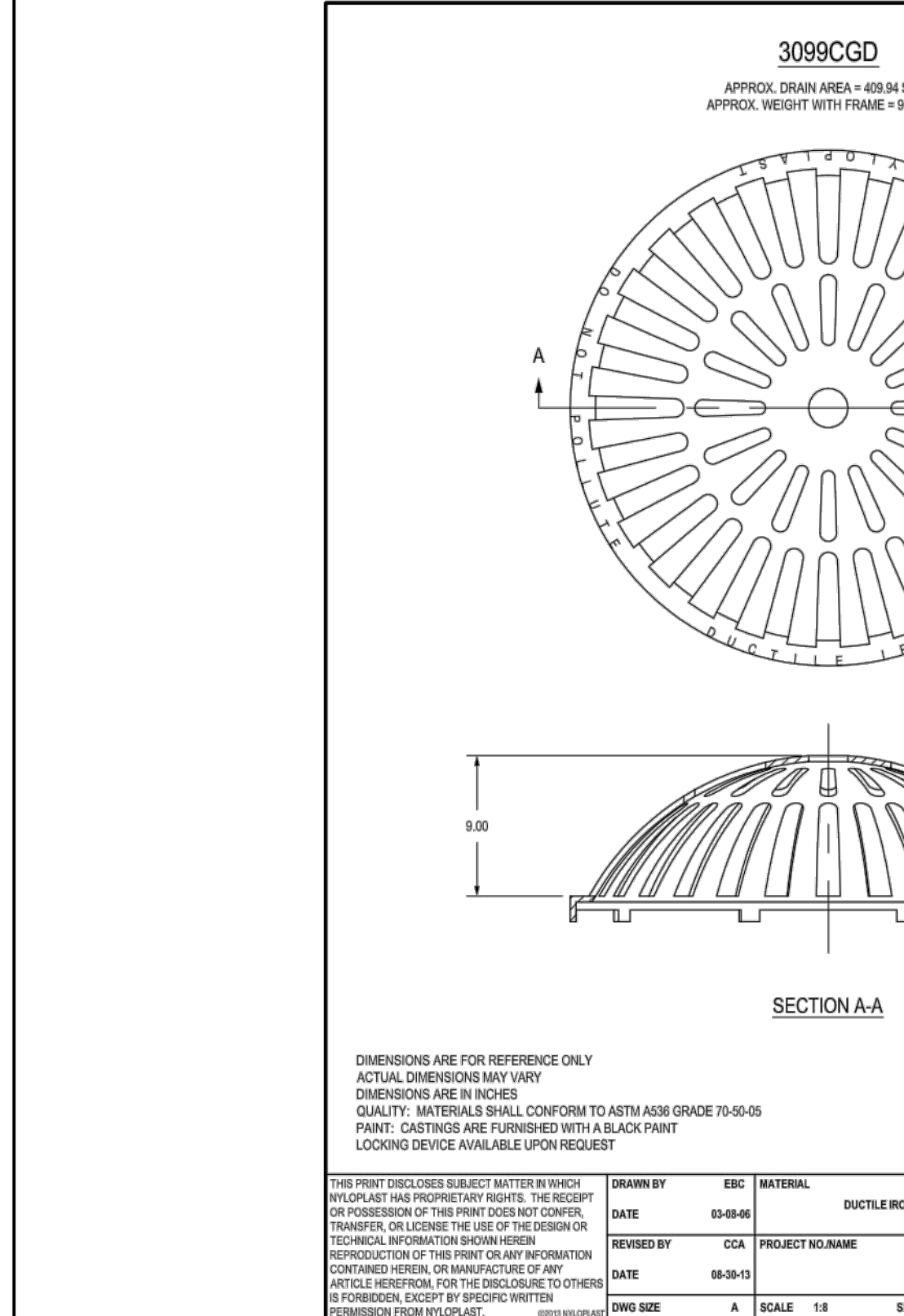
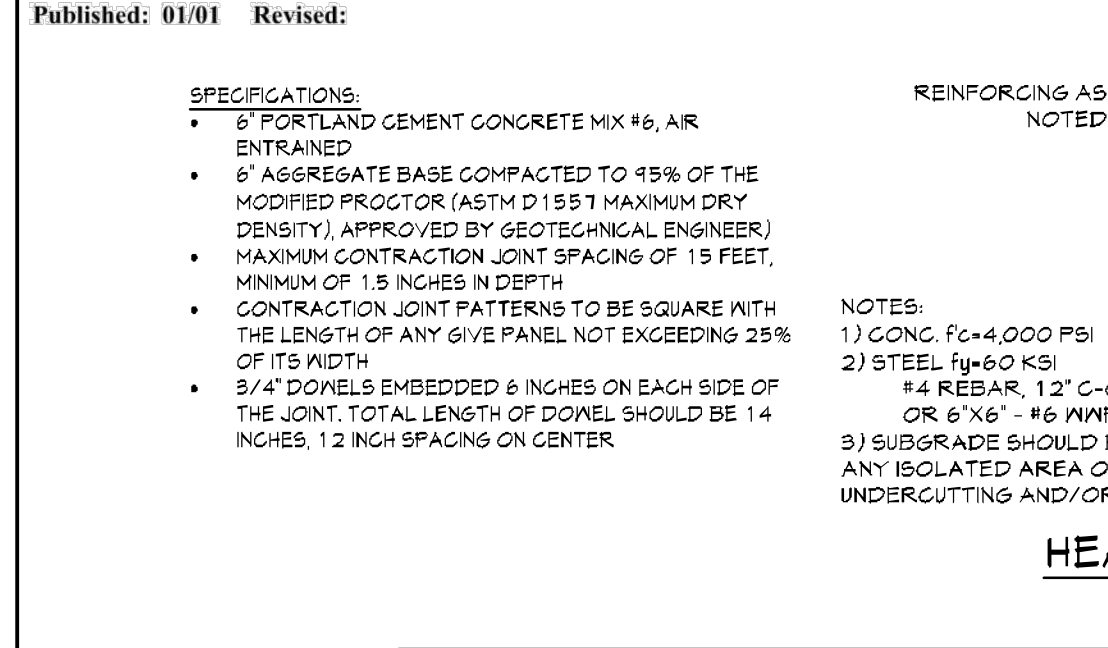
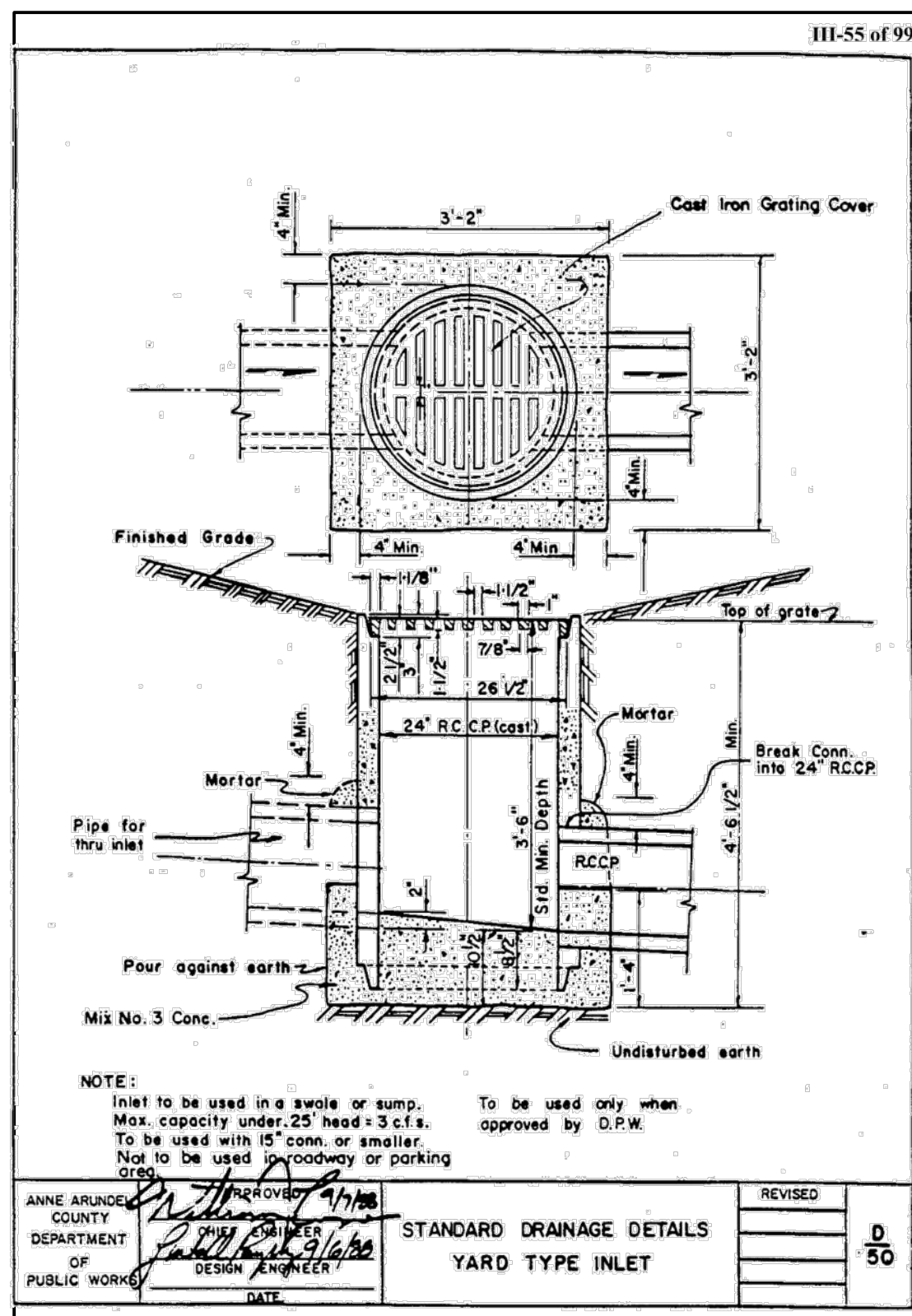


REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

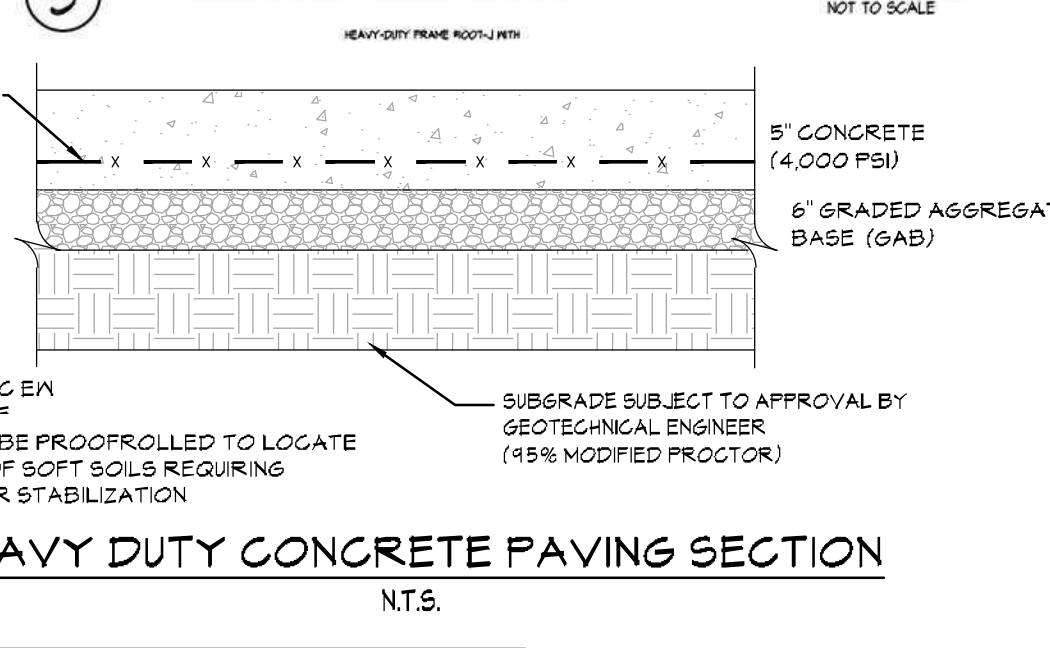
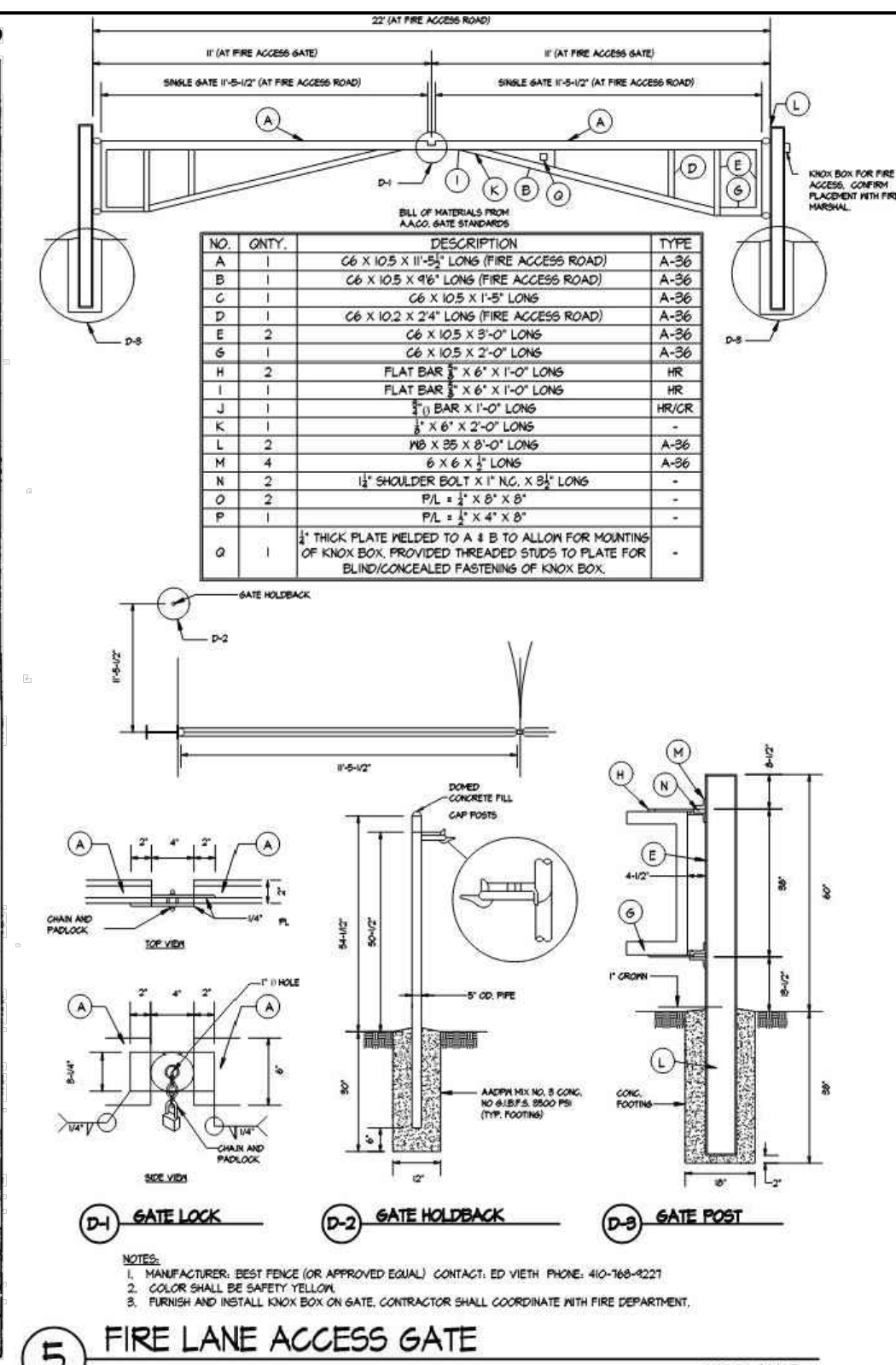
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

SCALE: AS INDICATED	100% CONSTRUCTION DOCUMENTS
DRAWN BY: JA/GP	
CHECKED BY: PVM	
SHEET NO.: C006	
PROJECT NO.: P570000	
PROPOSAL NO.: P570003	

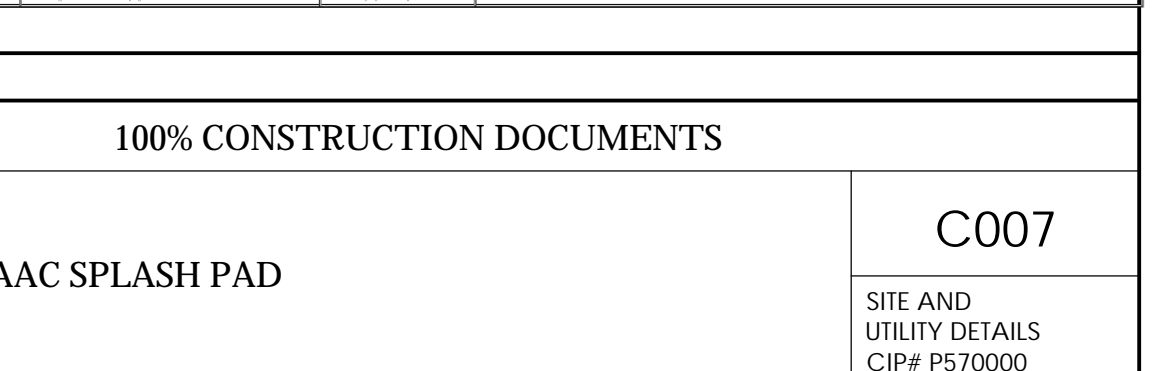
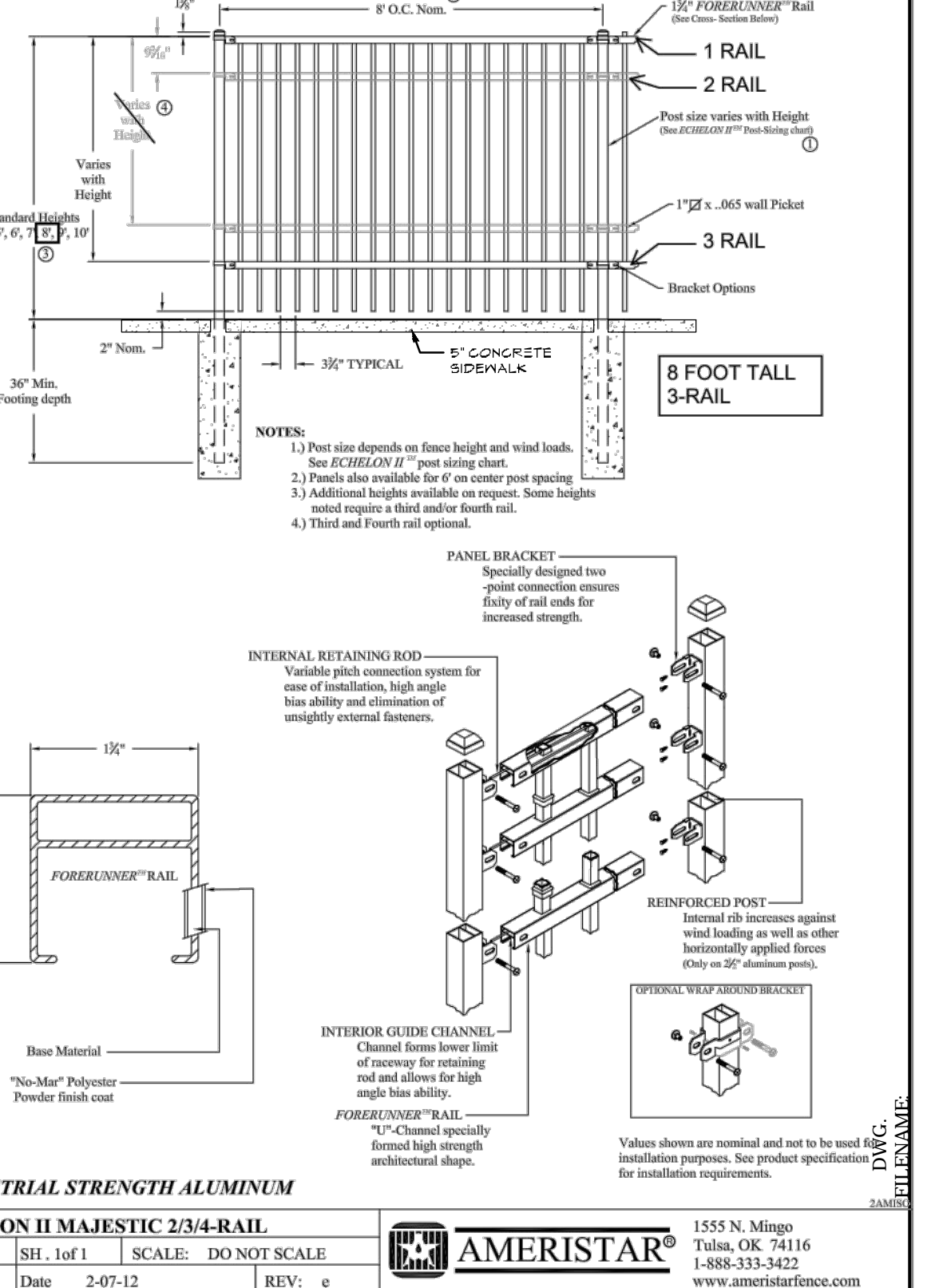
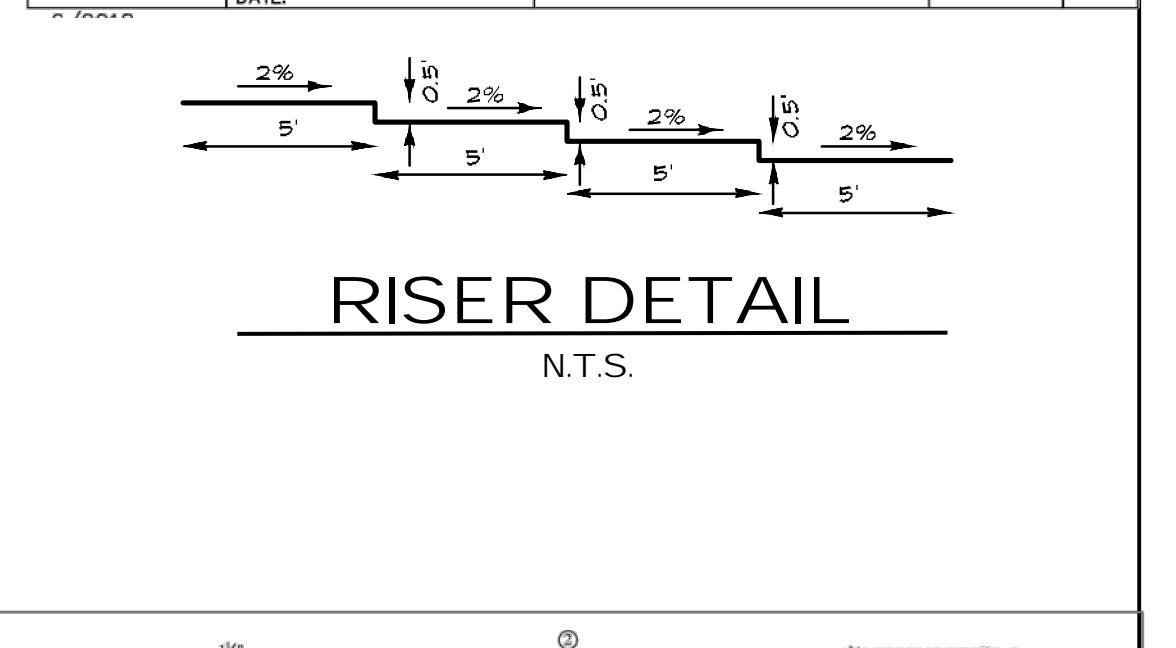
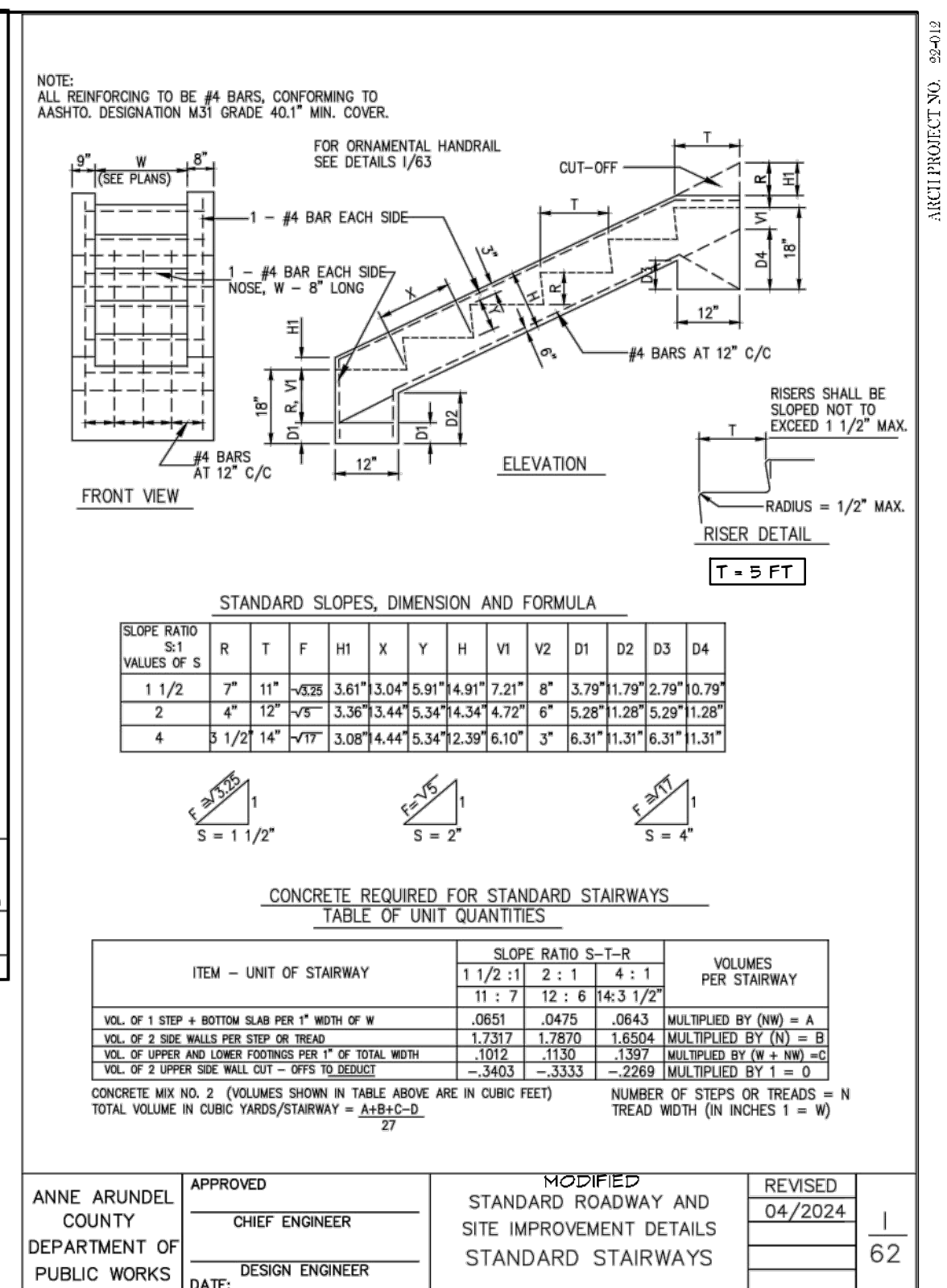
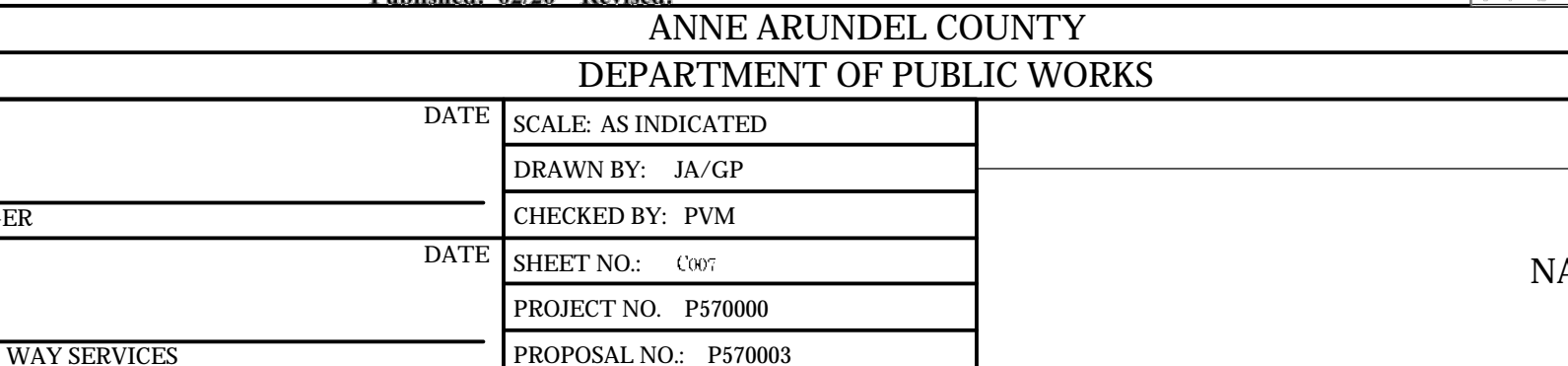
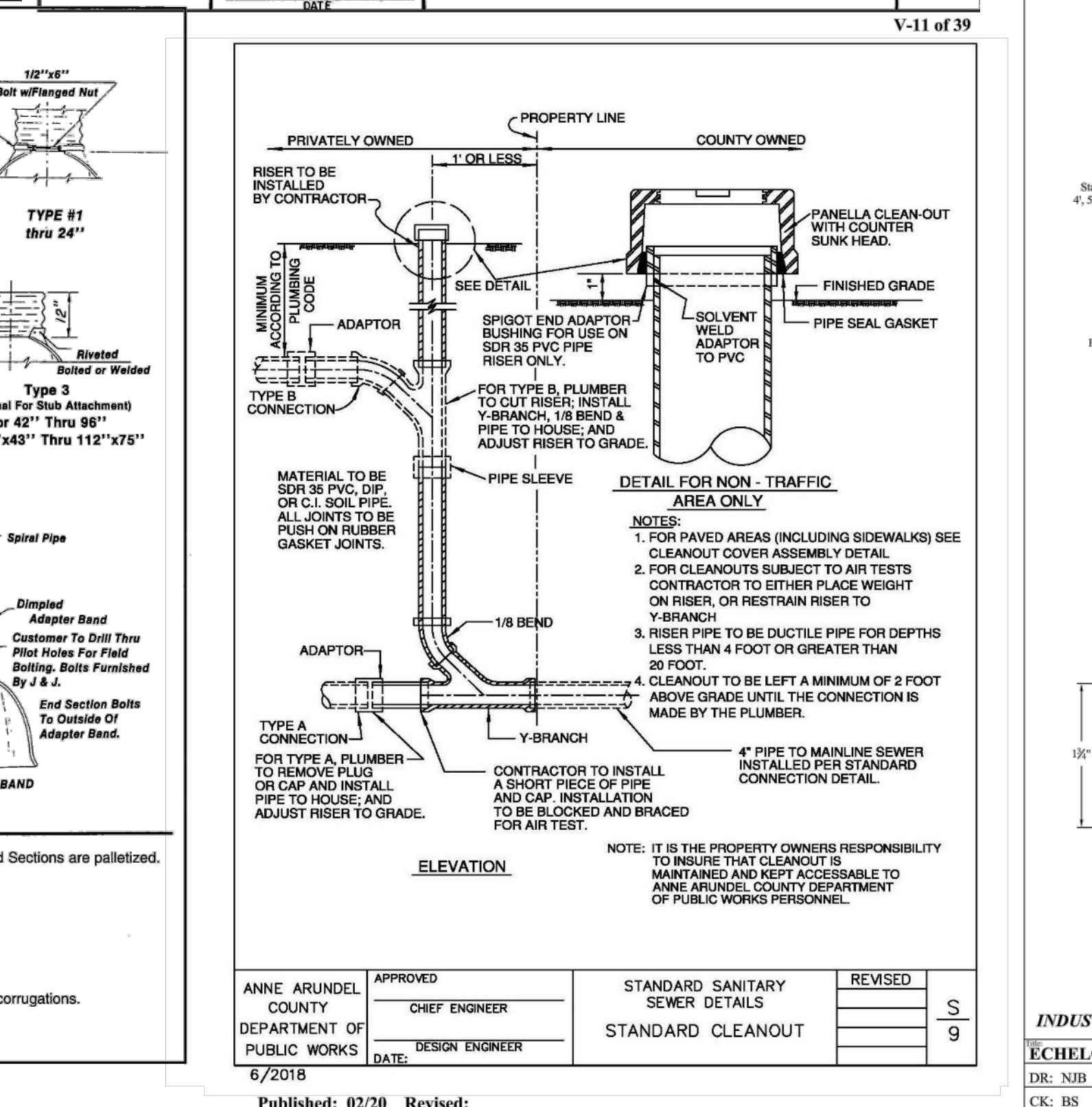
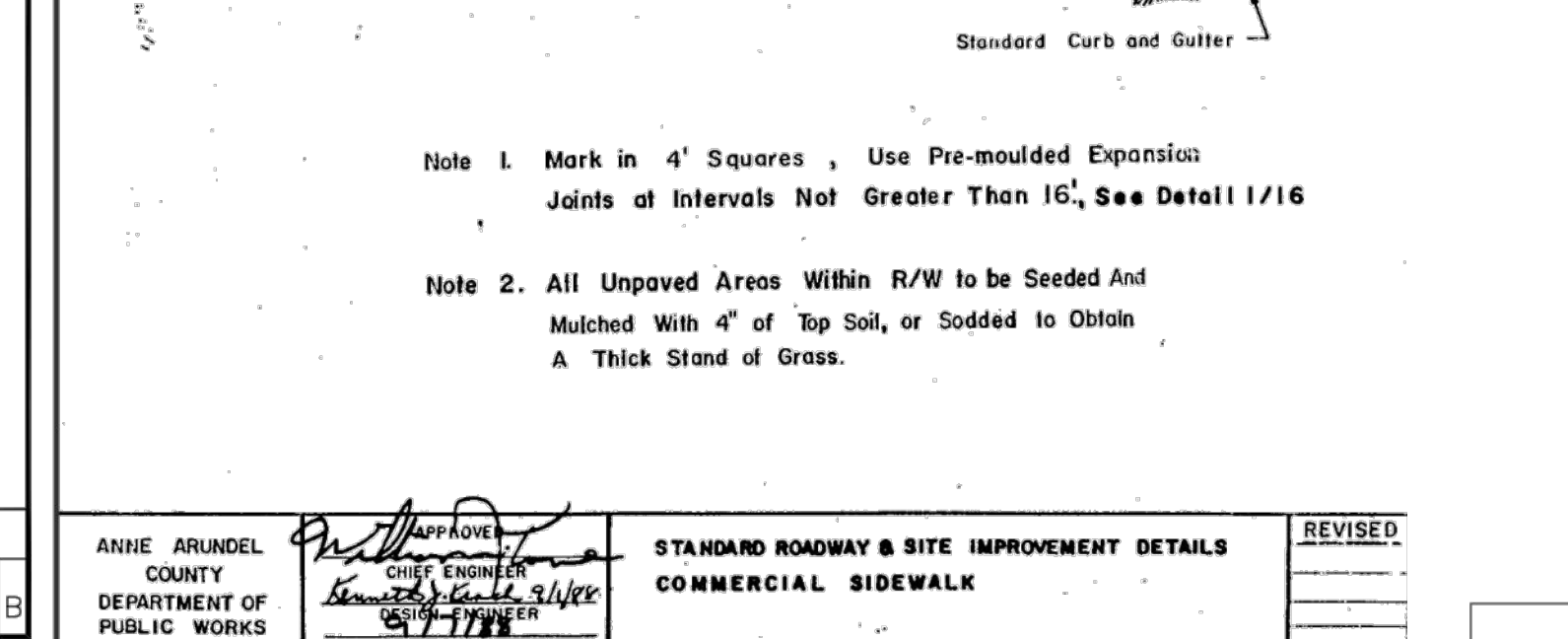
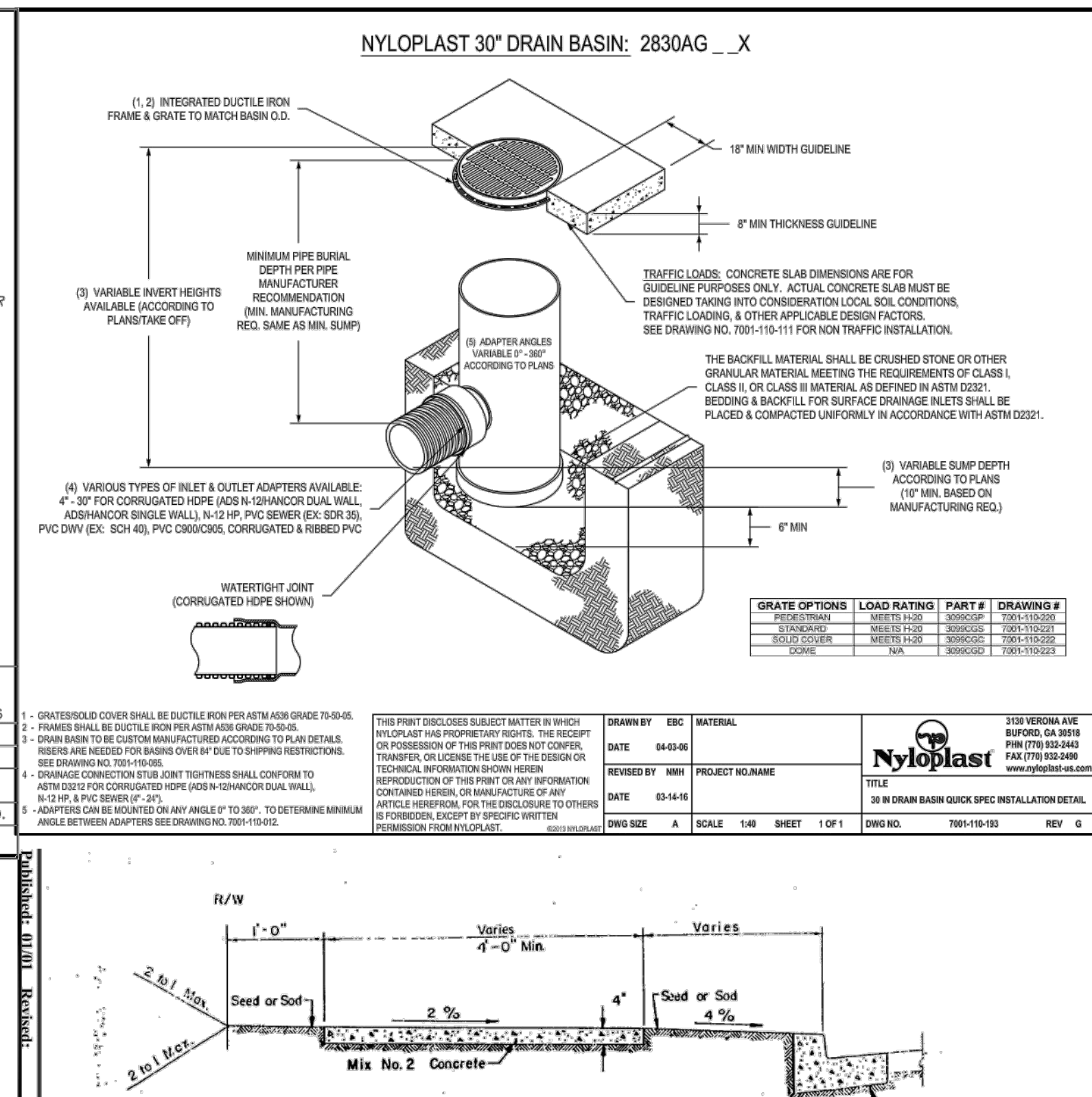
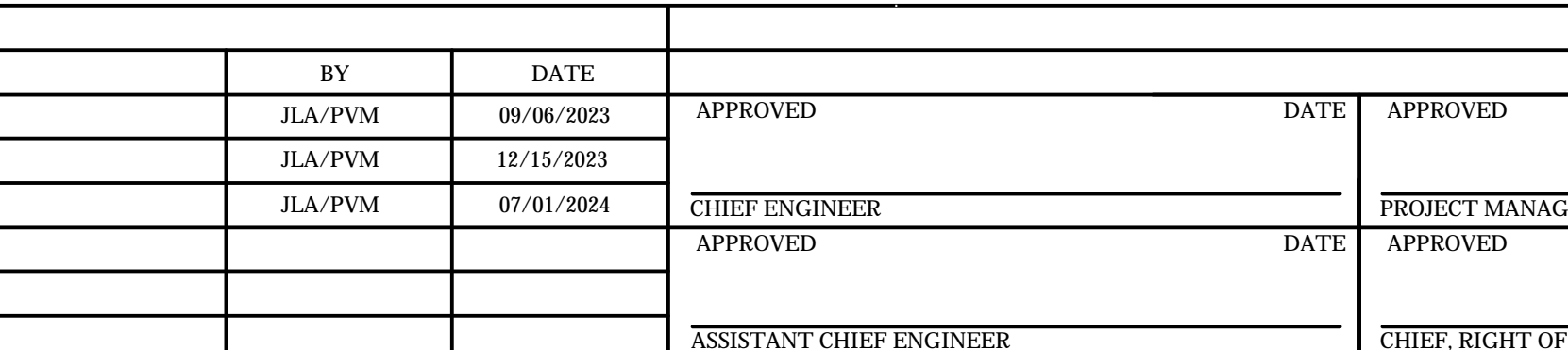
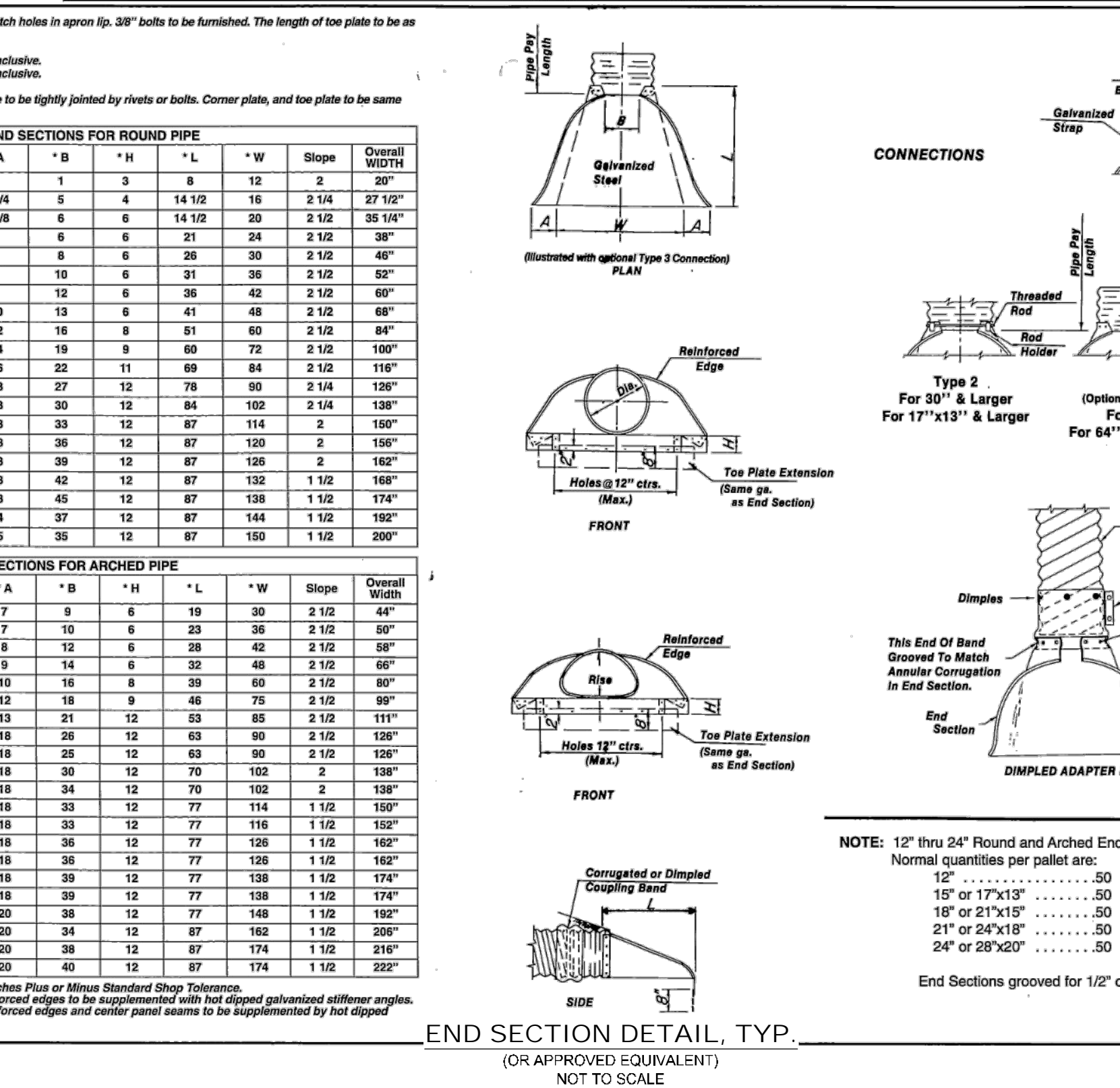
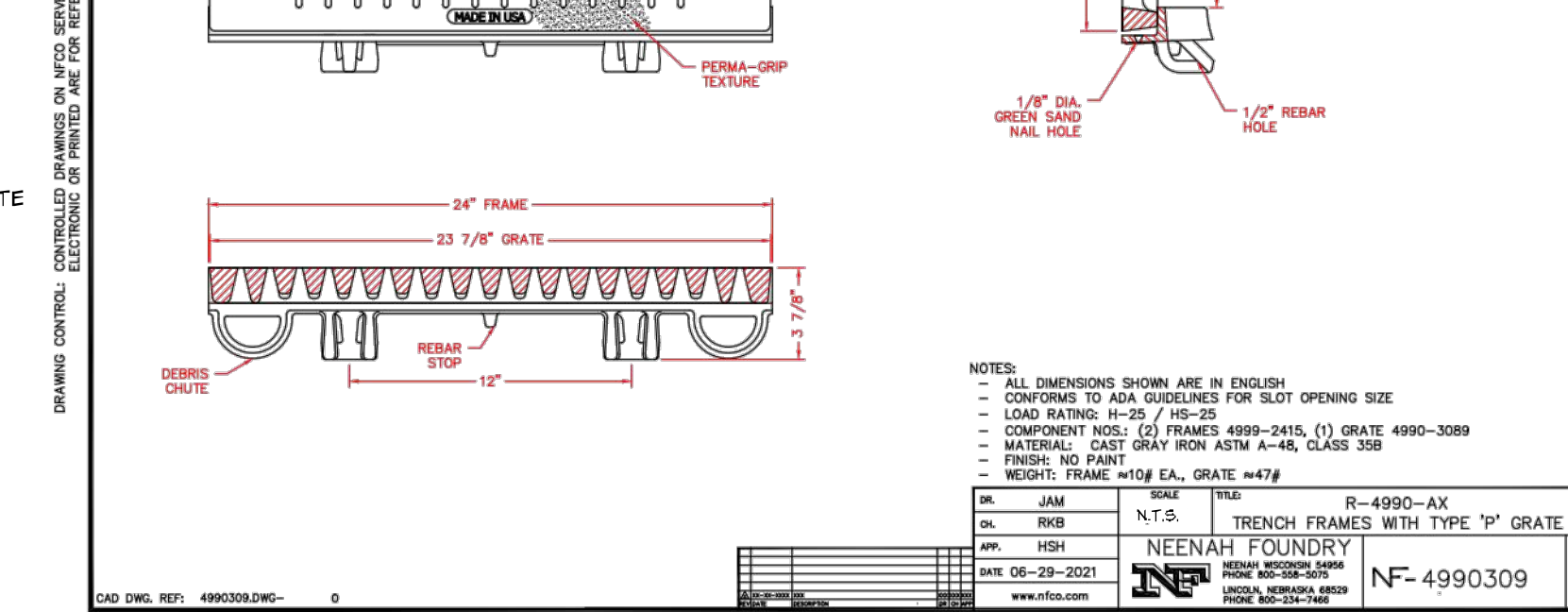
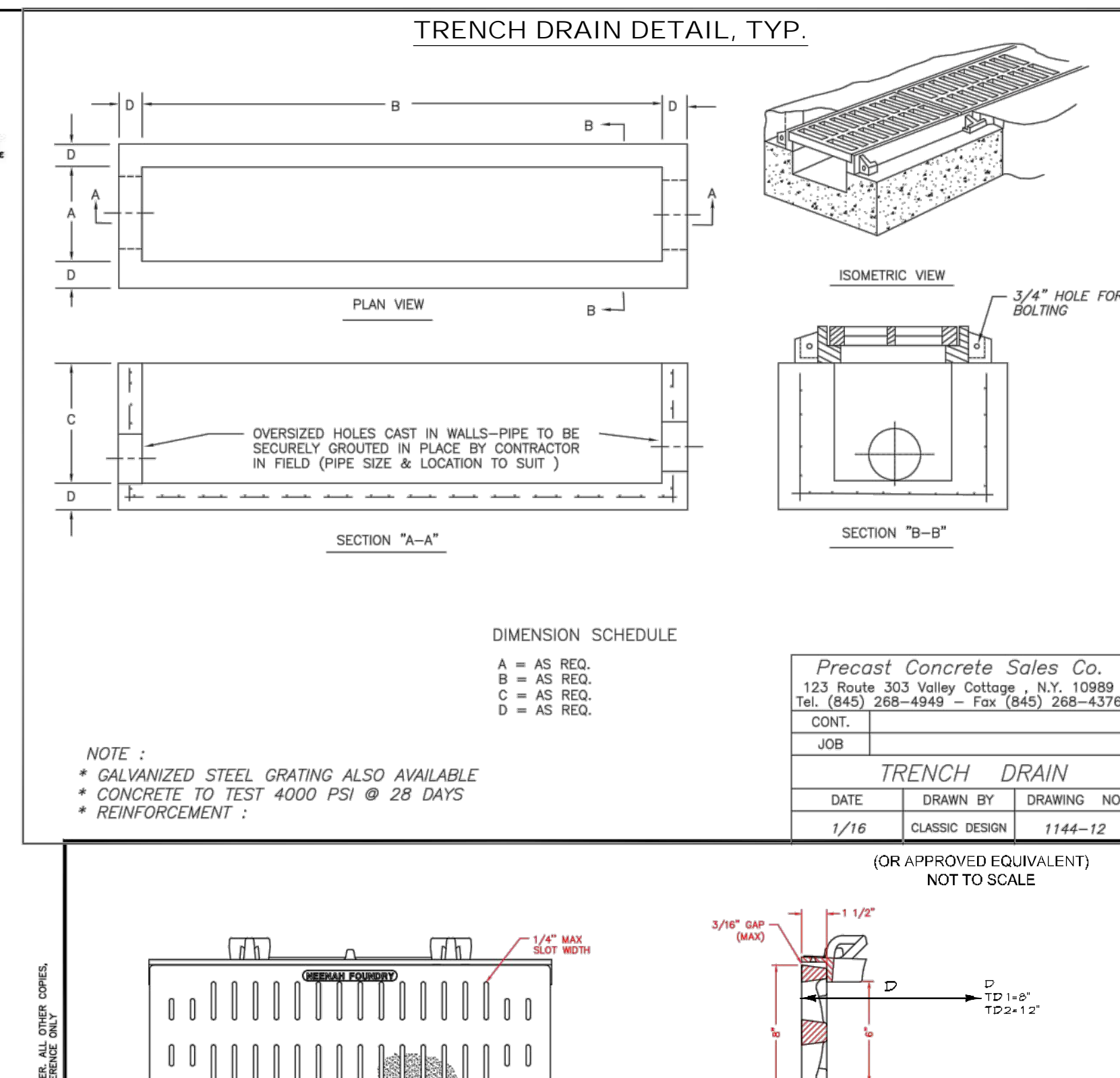
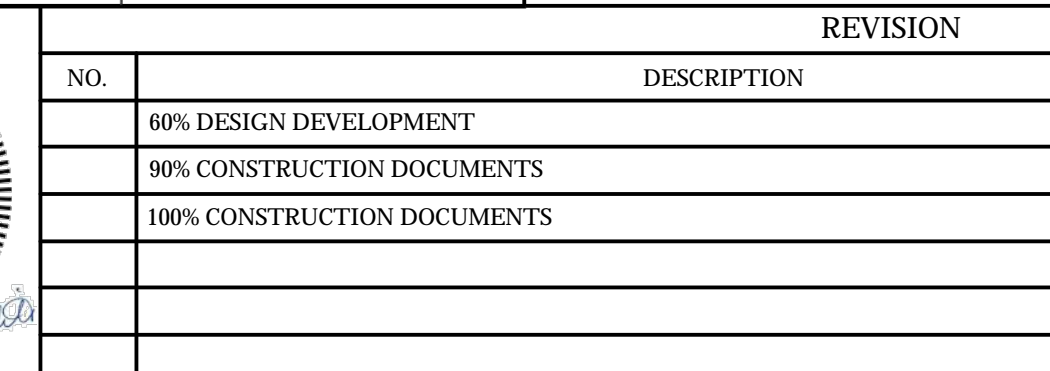
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN WOODWARD STUDIOS.

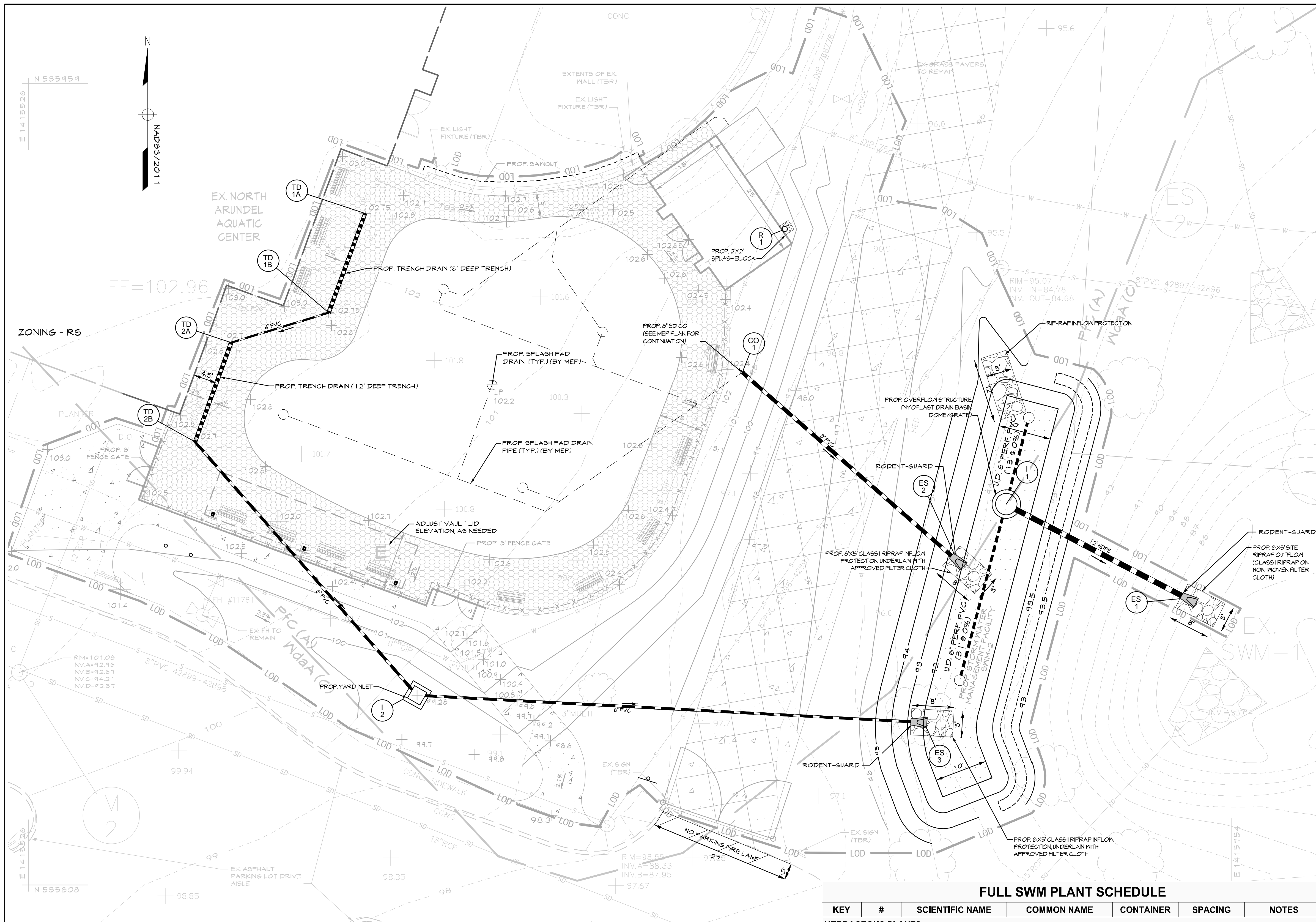


NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
80%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

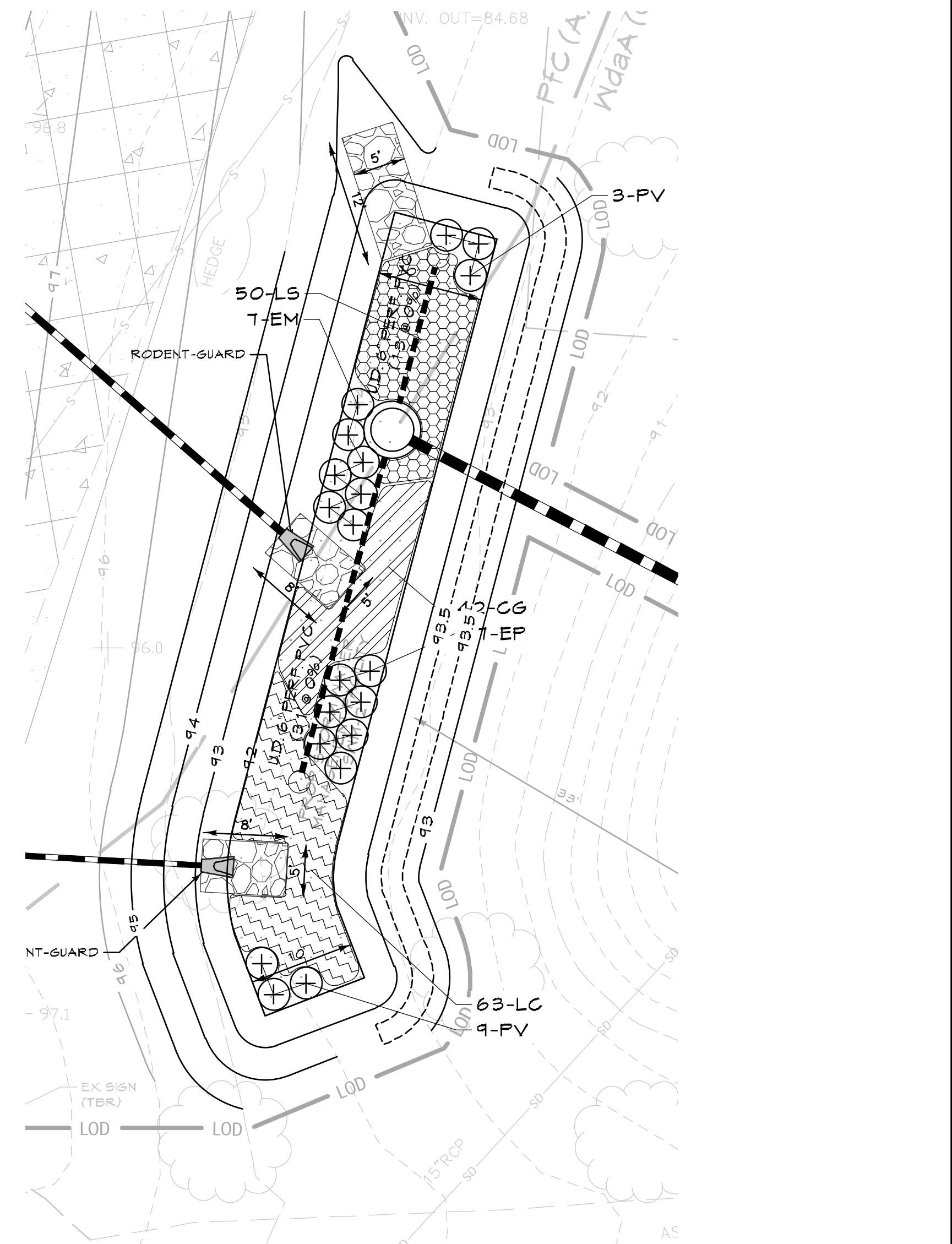


Spun Rise	Round Equivalent	Gauge	Weight	A	B	H	L	W	Slope	Overall Width
17x13	15"	16	25	7	9	6	19	30	2 1/2	44"
25x19	18"	16	32	7	10	6	25	36	2 1/2	50"
24x18	21"	16	40	8	12	6	38	42	3 1/2	58"
28x20	24"	16	52	9	14	6	32	48	2 1/2	66"
35x24	30"	14	52	10	16	8	39	60	2 1/2	80"
42x28	36"	14	133	12	18	9	48	75	2 1/2	90"
48x33	42"	12	233	13	21	12	53	85	2 1/2	111"
57x38	48"	12	315	18	28	12	63	90	2 1/2	128"
53x41	48"	12	300	18	25	12	69	90	2 1/2	128"
63x43	54"	12	357	18	30	12	70	102	2 1/2	138"
69x46	54"	12	375	18	34	12	70	102	2 1/2	138"
71x47	60"	12	480	18	33	12	77	114	1 1/2	150"
86x51	60"	12	487	18	33	12	77	116	1 1/2	150"
77x52	66"	12	616	18	38	12	77	128	1 1/2	162"
73x55	66"	12	616	18	38	12	77	128	1 1/2	162"
89x57	72"	12	670	18	39	12	77	138	1 1/2	174"
81x59	72"	12	680	18	39	12	77	138	1 1/2	174"
87x63	78"	12	720	20	38	12	77	148	1 1/2	192"
95x67	84"	12	785	20	34	12	87	162	1 1/2	206"
103x71	90"	12	810	20	38	12	87	174	1 1/2	216"
112x75	96"	12	887	20	40	12	87	174	1 1/2	216"

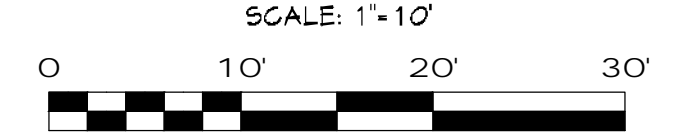




EXISTING LEGEND		PROPOSED LEGEND	
---	Site Property Boundary	---	Proposed Limit of Disturbance
---	Existing Minor Contour	---	Proposed Grades
---	Existing Major Contour	-X-X-X-X-	Proposed Fence
---	Existing Stream	[Pattern]	Proposed Concrete Sidewalk
---	Existing Stream Buffer	[Pattern]	Proposed Pump House Building
---	Existing Tree Line	[Pattern]	Proposed Storm Water Facility
---	Existing Drive	[Pattern]	Proposed Storm Drain
[Pattern]	Existing Building	[Pattern]	Proposed SWM Shrubs
[Symbol]	Existing BGE Utility Pole	[Pattern]	Proposed Ground Covers
-X-X-X-	Existing Fence Line	[Pattern]	Existing RipRap
Av	Soil Line		
S	Existing Sanitary Sewer		
W	Existing Water Line		
SD	Existing Storm Drain		
[Pattern]	Existing Fire Lane		
[Pattern]	Existing RipRap		



PROPOSED STORMWATER MANAGEMENT PLAN



FULL SWM PLANT SCHEDULE						
KEY	#	SCIENTIFIC NAME	COMMON NAME	CONTAINER	SPACING	NOTES
HERBACEOUS PLANTS						
EM	7	Eupatorium maculatum	Spotted Joe-Pye Weed	5 Gal.	36" O.C.	
EP	7	Eupatorium perfoliatum	Common Boneset	5 Gal.	36" O.C.	
PV	6	Panicum virgatum	Switchgrass	5 Gal.	30" O.C.	
TOTAL	20					
HERBACEOUS PLANTS						
CG	42	Chelone glabra	White Turtlehead	1 Gal.	24" O.C.	
LC	63	Lobelia cardinalis	Cardinal Flower	1 Gal.	24" O.C.	
LS	50	Lobelia siphillica	Great Blue Lobelia	1 Gal.	24" O.C.	
TOTAL	155					

PLANT MATERIAL - MICRO-BIORETENTION		
QUANTITY	NAME	MAXIMUM SPACING (FT.)
184 (551 Sqft.)	Grasses	36" o.c.
29	Shrubs	36"-40" o.c.

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. 21875 EXPIRATION DATE: 02-12-2026

MANN WOODWARD STUDIOS
 CENTURY ENGINEERING
 A Kleinfelder Company
 10911 Market Street, Suite 100, Bowie, MD 20715
 Phone: 410-326-0400 www.mannwoodward.com

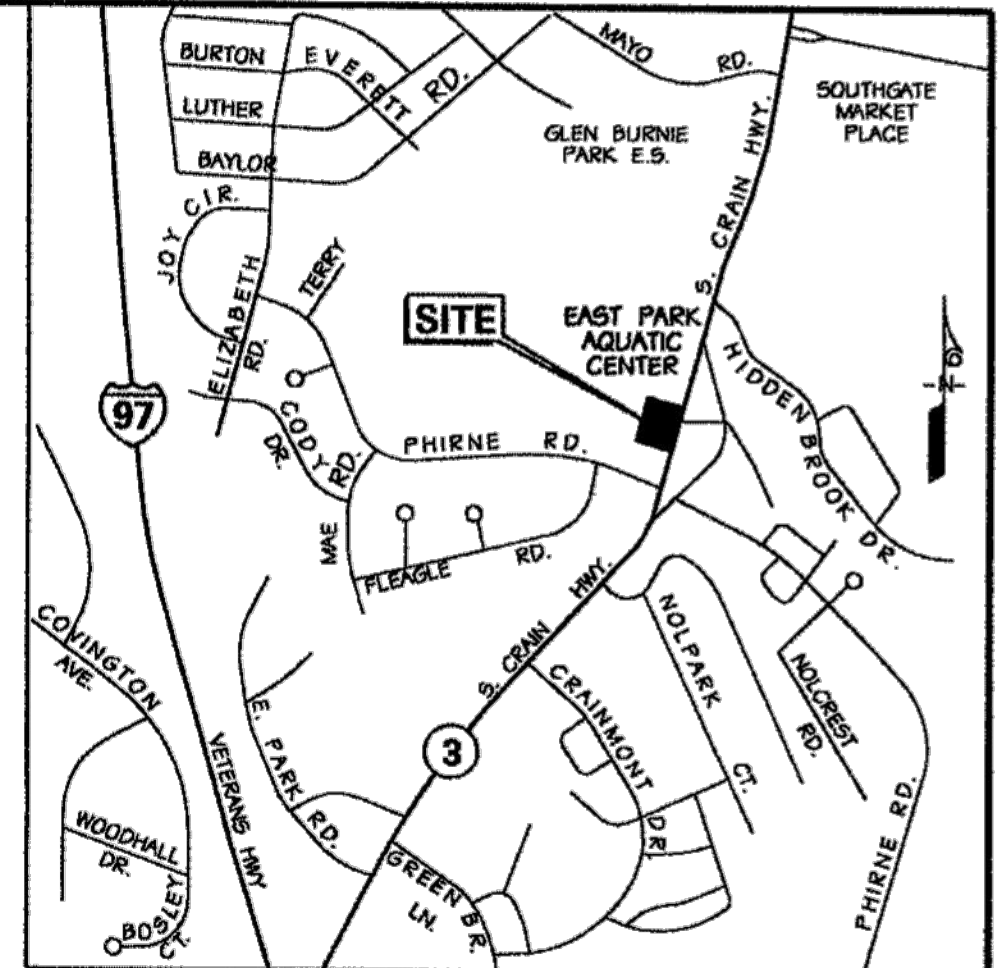


REVISION			
NO.	DESCRIPTION	BY	DATE
60	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

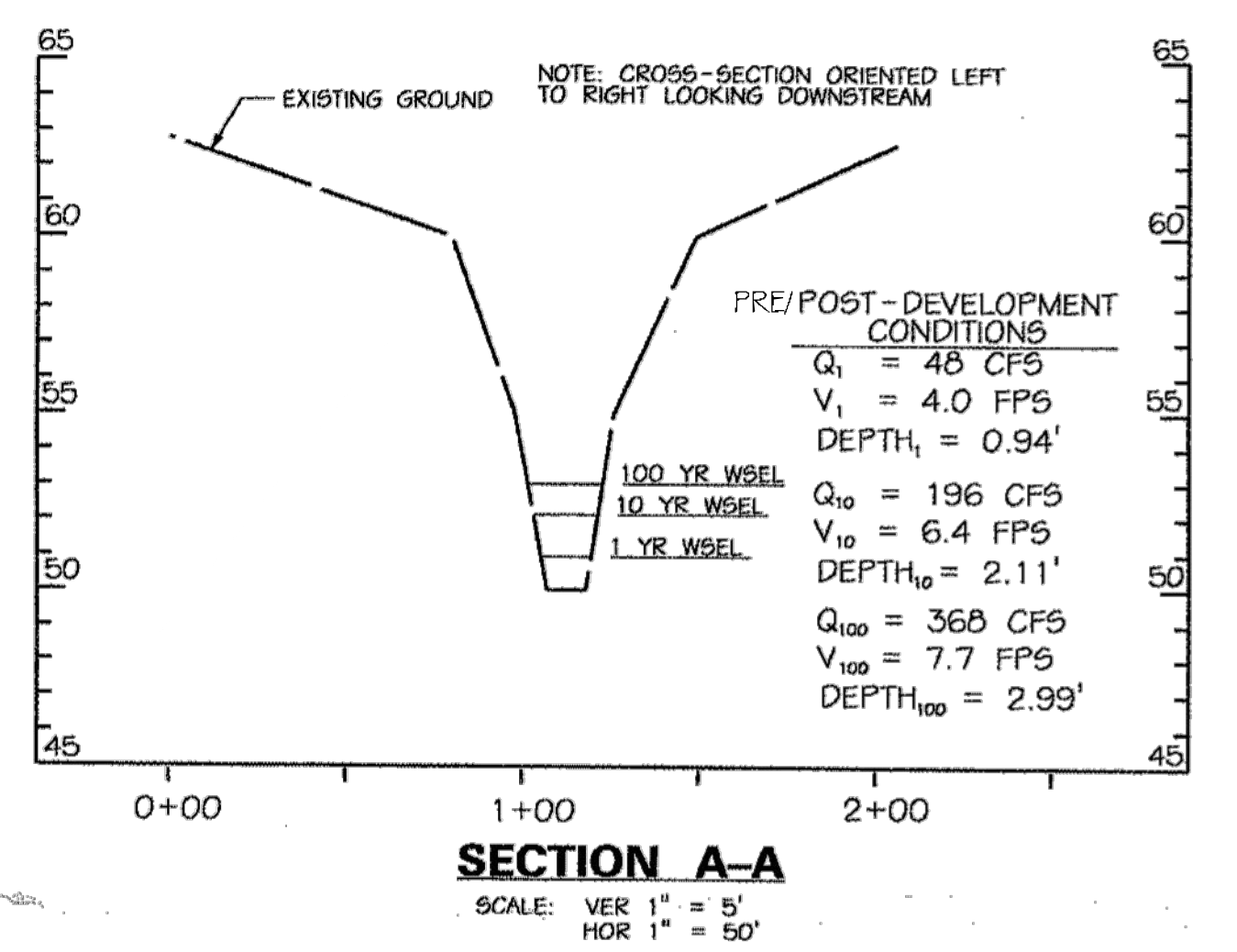
SCALE: AS INDICATED	100% CONSTRUCTION DOCUMENTS
DRAWN BY: JA/GP	
CHECKED BY: PVM	
SHEET NO.: 008	NAAC SPLASH PAD
PROJECT NO.: P570000	C008
PROPOSAL NO.: P570003	PROPOSED STORMWATER MANAGEMENT PLAN CIP# P570000

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN WOODWARD STUDIOS.



LEGEND

- DRAINAGE AREA
- SITE DRAINAGE BOUNDARY
- Tc PATH



OUTFALL STATEMENT

THE SITE OUTFALL IS LOCATED AT THE DOWNSTREAM SIDE OF THE PROPOSED TWIN 30" X 24" ARCH PIPES UNDER OLD CRANE HIGHWAY. A FIELD INVESTIGATION OF THE SITE OUTFALL WAS PERFORMED ON JUNE 16, 2004 BY KCI TECHNOLOGIES, INC. THE INVESTIGATIONAL CONCRETE CHANNEL DOWNSTREAM OF THE SITE OUTFALL IS STABLE AND IN GOOD CONDITION WITH NO SIGNS OF SEDIMENTATION OR FLOODING. AN ANALYSIS OF THE CONCRETE CHANNEL INDICATED THAT THE CHANNEL HAS ADEQUATE CAPACITY TO CONVEY THE INCREASE IN POST-DEVELOPMENT DISCHARGE. A CROSS-SECTION REPRESENTATIVE OF THE NATURAL CHANNEL AT THE POINT OF INVESTIGATION (LOCATED ON THE UPSTREAM SIDE OF AN EXISTING 7" X 5"-11" CORRUGATED METAL PIPE ARCH UNDER OLD CRANE ROAD) WAS ANALYZED. THE CHANNEL HAS ADEQUATE CAPACITY TO CONVEY THE INCREASE IN DISCHARGE IN POST-DEVELOPMENT CONDITIONS, AND VELOCITY INCREASES ARE NEGLIGIBLE.

OUTFALL STATEMENT FROM ORIGINAL DEVELOPMENT, FOR REFERENCE ONLY.

NOTE: DRAINAGE AREA MAP OF ORIGINAL NORTH ARUNDEL AQUATIC CENTER SHOWN FOR REFERENCE OF EXISTING CONDITIONS ONLY. PLEASE REFER TO SHEETS 10A AND 11 FOR EXISTING AND PROPOSED DRAINAGE AREA MAPS FOR SPLASH PAD EXPANSION DEVELOPMENT.

PLOTTED: 02:55 PM on Thursday, August 26, 2004
 FILE: \\s01\proj\2004\01042455\DWG\DWG.dwg
 DPW# 37923

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. 21875 EXPIRATION DATE: 02-12-2026

CENTURY ENGINEERING
A Nierfielder Company
19901 Veterans Blvd, Suite 300, Bowie, MD 20715
Phone: 410-263-2400 www.centuryeng.com

DESIGNED BY: JA
DRAWN BY: GP
CHECKED BY: SA/PM
DATE: 07/01/24

SEAL OF MARYLAND PROFESSIONAL ENGINEER 21875

PROJECT: NORTH ARUNDEL AQUATIC CENTER - SPLASH PAD EXPANSION
GRADING PERMIT
GP #G02019900
05/06/2024

SHEET NO. C010

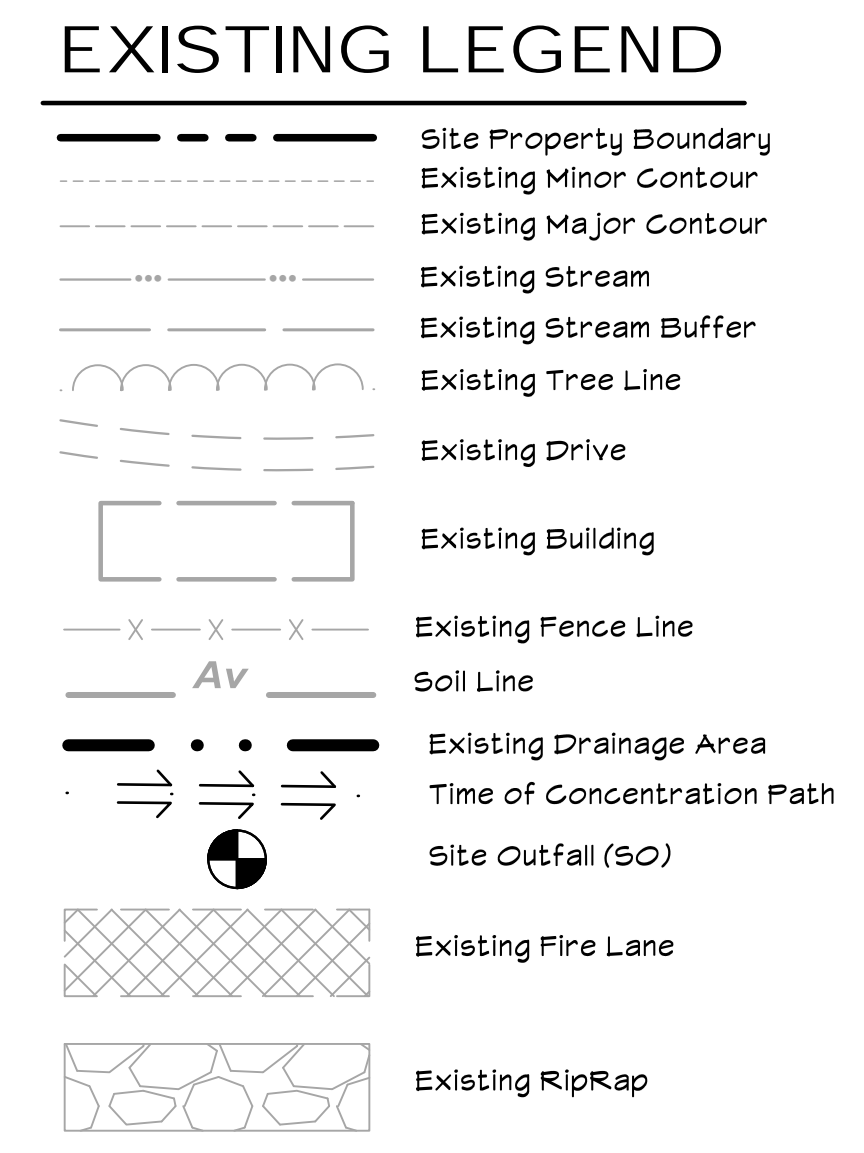
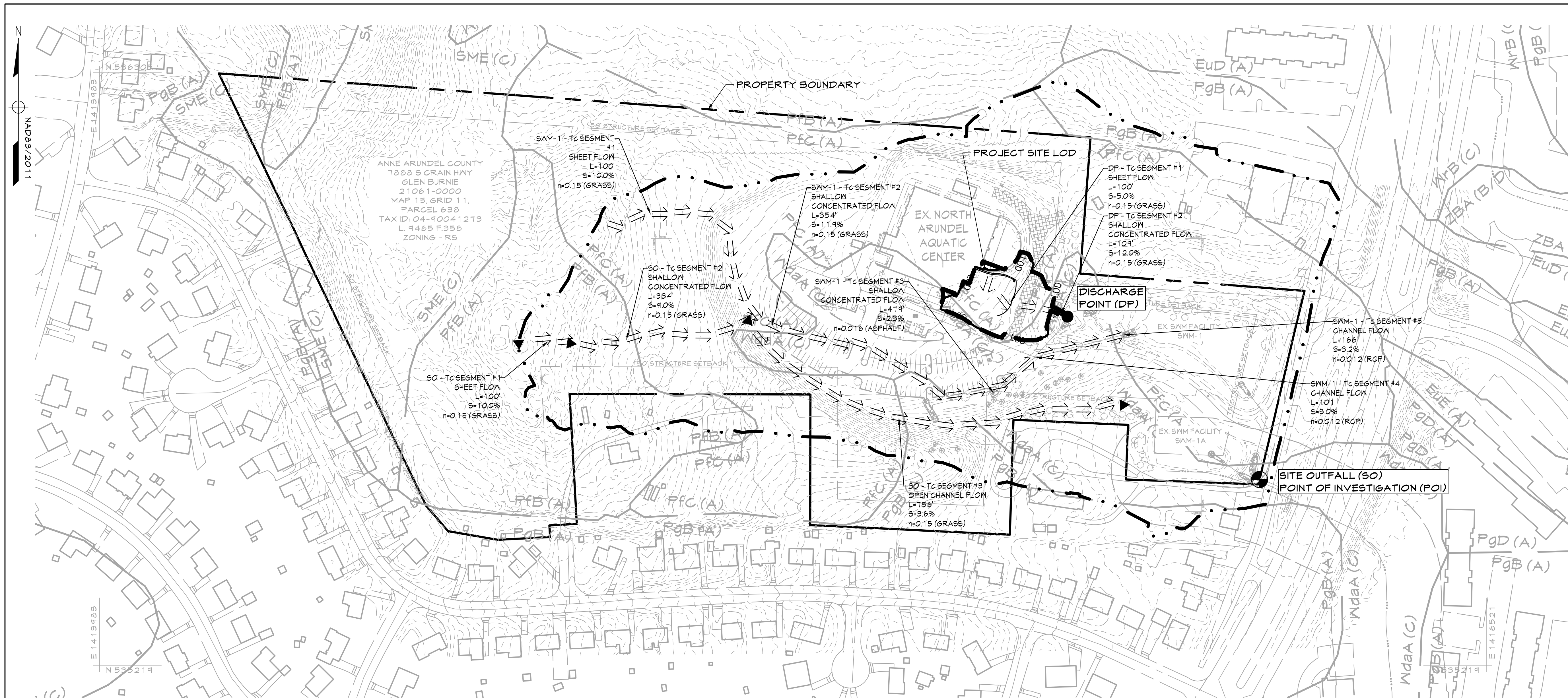
HUGHES GROUP ARCHITECTS
45640 WILLOW POND PLAZA
STERLING, VIRGINIA 20164
703.437.6600

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS

10 North Park Drive
Hunt Valley, MD 21030
Phone: (410) 316-7800
Fax: (410) 316-7817
www.kci.com

ANNE ARUNDEL COUNTY				DEPARTMENT OF PUBLIC WORKS		SCALE: 1" = 200'	
APPROVED	DATE	APPROVED	DATE	SCALE: 1" = 200'			
CHIEF ENGINEER		PROJECT ENGINEER		DRAWN BY:			
APPROVED	DATE	APPROVED	DATE	CHECKED BY:			
ASSISTANT CHIEF ENGINEER		CHIEF RIGHT OF WAY		SHEET NO.:	C010		
				PROJECT NO.:			
				CONTRACT NO.:			

98414
BUREAU OF ENGINEERING
EAST PARK AQUATIC CENTER
DOWNSTREAM OUTFALL ANALYSIS



SITE DATA
 SITE AREA (LOD) = 0.47 Ac.
 ZONING: R5
 EXISTING USE: AQUATIC CENTER
 PROPOSED USE: AQUATIC CENTER

EXISTING SITE DRAINAGE TO DISCHARGE POINT (DP)
 DA = 0.49 Ac.
 TC = 0.116 Hrs.
 CN = 53
 Q10 = 0.61 CFS
 (DATA OBTAINED FROM TR-55)

EXISTING SITE DRAINAGE TO SWM-1
 DA = 9.44 Ac.
 TC = 0.179 Hrs.
 CN = 59
 Q10 = 15.42 CFS
 (DATA OBTAINED FROM TR-55)

EXISTING SITE DRAINAGE TO SITE OUTFALL (SO) AND POINT OF INVESTIGATION (POI)
 DA = 18.17 Ac.
 TC = 0.163 Hrs.
 CN = 51
 Q10 = 26.55 CFS
 (DATA OBTAINED FROM TR-55)

EXISTING DRAINAGE AREA MAP
 SCALE: 1"=100'
 0 100' 200' 300'

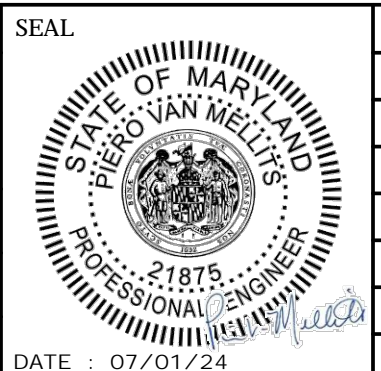
		K	Hydric	HSG	Drainage class
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	0.05	NO	A	Excessively drained
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	0.05	NO	A	Excessively drained
FrA	Fallsington-Urban land complex, 0 to 2 percent slopes	0.2	YES	B/D	Poorly drained
PFB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	0.02	NO	A	Somewhat excessively drained
PFC	Patapsco-Fort Mott complex, 5 to 10 percent slopes	0.02	NO	A	Somewhat excessively drained
PGB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	0.02	NO	A	Somewhat excessively drained
PgD	Patapsco-Fort Mott-Urban land complex, 5 to 15 percent slopes	0.02	NO	A	Somewhat excessively drained
SME	Sassafras and Croom soils, 15 to 25 percent slopes	0.15	NO	C	Well drained
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	0.24	NO	B	Well drained
UoB	Udorthents, loamy, 0 to 5 percent slopes	0.37	NO	C	Well drained
Uz	Urban land	NO	NO	D	
WdA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	0.24	NO	C	Moderately well drained
Wrb	Woodstown-Urban land complex, 0 to 5 percent slopes	0.28	NO	C	Moderately well drained
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	0.32	YES	B/D	Poorly drained

Outfall Statement
 THE SITE OUTFALL IS AT THE OUTFALL POINT OF THE SITE FROM EXISTING SWM FACILITY SWM-1A VIA STORM DRAIN PIPE TO MARLEY CREEK. THE EXISTING STORMWATER FACILITIES ON-SITE WILL REMAIN UNDISTURBED. SITE OUTFALL DISCHARGES TO THE CREEK LOCATED APPROXIMATELY 200 FT SOUTHEAST OF THE PROPERTY BOUNDARY, AND APPROXIMATELY 800 FT SOUTHEAST OF THE PROJECT SITE AREA. MARLEY CREEK IS CLASSIFIED WITHIN USE CLASS I, CONSIDERED A TIDAL WATERSHED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND ULTIMATELY OUTFALLS TO THE PATAPSCO RIVER. PER ANNE ARUNDEL COUNTY MAPPING, MARLEY CREEK IS A PERENNIAL STREAM, REQUIRING A 100 FT BUFFER ON WETLANDS MAPPING. DATA INDICATES POINTS OF EROSION, HEADCUTS, AND OBSTRUCTIONS ALONG THE STREAM. A FIELD INVESTIGATION WAS PERFORMED ON MAY 11, 2023 AND DETERMINED THAT THE SWM-1A OUTFALL IS STABLE AND IN GOOD CONDITION, WITH LITTLE TO NO SIGNS OF SIGNIFICANT EROSION OR SEDIMENTATION ISSUES. THE CULVERT UNDER OLD GRAIN HIGHWAY IS IN GOOD CONDITION.

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. 21875 EXPIRATION DATE: 02-12-2026

MANN'S WOODWARD ENGINEERING
 A Kleinfelder Company
 18001 Market Blvd, Suite 120, Bowie, MD 20715
 Phone: 443.268.2400 www.mannswoodward.com

DGN BY: JA
 DWN BY: GP
 CHD BY: JA/PM
 DATE: 07/01/24



REVISION			
NO.	DESCRIPTION	BY	DATE
60	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

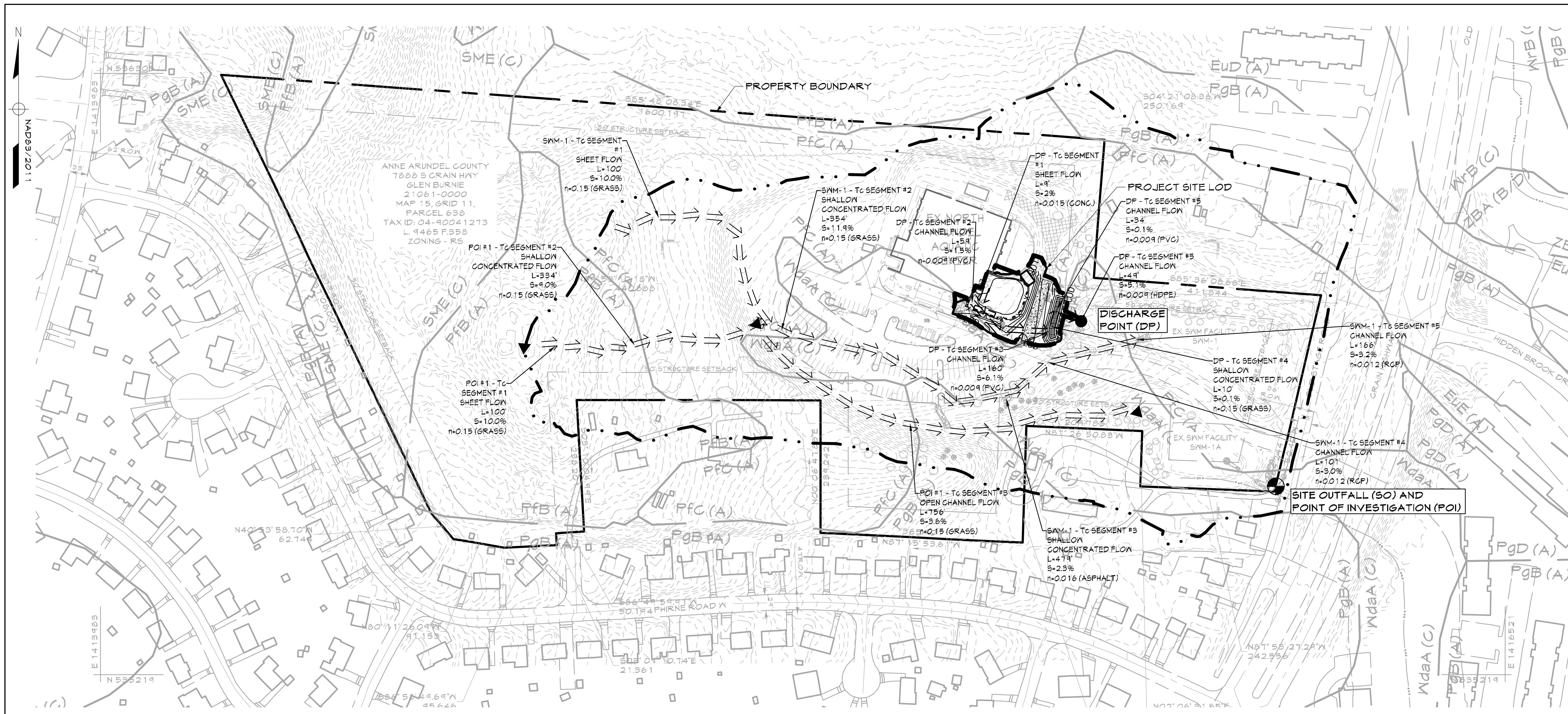
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER	DATE	PROJECT MANAGER	DATE
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER	DATE	CHIEF, RIGHT OF WAY SERVICES	DATE

SCALE: AS INDICATED
 DRAWN BY: JA/GP
 CHECKED BY: PVM
 SHEET NO: C010A
 PROJECT NO.: P570000
 PROPOSAL NO.: P570003

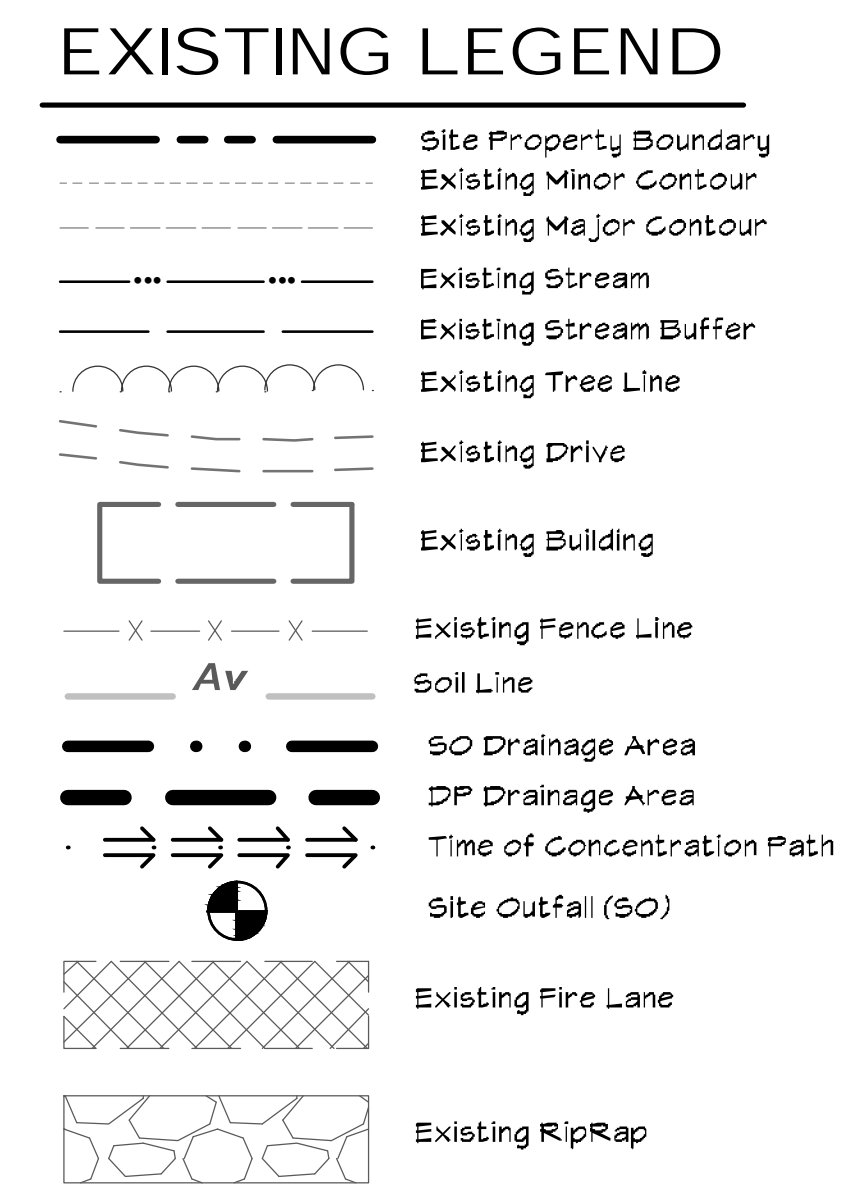
100% CONSTRUCTION DOCUMENTS

NAACL SPLASH PAD

C010A
 EXISTING DRAINAGE AREA MAP
 CIP# P570000



PROPOSED DRAINAGE AREA MAP
SCALE: 1"=100'
0 100' 200' 300'



SITE DATA
SITE AREA (LOD) = 0.41 Ac.
ZONING: RS
EXISTING USE: AQUATIC CENTER
PROPOSED USE: AQUATIC CENTER

PROPOSED SITE DRAINAGE TO DISCHARGE POINT (DP)
DA = 0.49 Ac.
Tc = 0.100 Hrs.
CN = 77
Q10 = 2.12 CFS
(DATA OBTAINED FROM TR-55)

ADJUSTED PROPOSED SITE DRAINAGE TO SWM-1
(ADJUSTED PER ANNE ARUNDEL COUNTY STORMWATER MANAGEMENT PRACTICES AND PROCEDURES MANUAL CHAPTER 1.2.3.D)
DA = 1.44 Ac.
Tc = 0.100 Hrs.
CN = 58
Q10 = 15.50 CFS
(DATA OBTAINED FROM TR-55)

PROPOSED SITE DRAINAGE TO SITE OUTFALL (SO) AND POINT OF INVESTIGATION (POI)
DA = 18.17 Ac.
Tc = 0.163 Hrs.
CN = 57
Q10 = 28.45 CFS
(DATA OBTAINED FROM TR-55)

ADJUSTED PROPOSED SITE DRAINAGE TO SITE OUTFALL (SO) AND POINT OF INVESTIGATION (POI)
(ADJUSTED PER ANNE ARUNDEL COUNTY STORMWATER MANAGEMENT PRACTICES AND PROCEDURES MANUAL CHAPTER 1.2.3.D)
DA = 18.17 Ac.
Tc = 0.163 Hrs.
CN = 56
Q10 = 26.55 CFS
(DATA OBTAINED FROM TR-55)

	K	Hydric	HSG	Drainage class	
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	0.05	NO	A	Excessively drained
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	0.05	NO	A	Excessively drained
FrA	Fallsington-Urban land complex, 0 to 2 percent slopes	0.2	YES	B/D	Poorly drained
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	0.02	NO	A	Somewhat excessively drained
PfC	Patapsco-Fort Mott complex, 5 to 10 percent slopes	0.02	NO	A	Somewhat excessively drained
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	0.02	NO	A	Somewhat excessively drained
PgD	Patapsco-Fort Mott-Urban land complex, 5 to 15 percent slopes	0.02	NO	A	Somewhat excessively drained
SME	Sassafras and Croom soils, 15 to 25 percent slopes	0.15	NO	C	Well drained
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	0.24	NO	B	Well drained
UoB	Udorthents, loamy, 0 to 5 percent slopes	0.37	NO	C	Well drained
Uz	Urban land		NO	D	
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	0.24	NO	C	Moderately well drained
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	0.28	NO	C	Moderately well drained
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	0.32	YES	B/D	Poorly drained

Outfall Statement
THE SITE OUTFALL IS AT THE OUTFALL POINT OF THE SITE FROM EXISTING SWM FACILITY SWM-1A VIA STORM DRAIN PIPE TO MARLEY CREEK. THE EXISTING STORMWATER FACILITIES ON-SITE WILL REMAIN UNDISTURBED. SITE OUTFALL DISCHARGES TO THE CREEK LOCATED APPROXIMATELY 200 FT SOUTHEAST OF THE PROPERTY BOUNDARY, AND APPROXIMATELY 800 FT SOUTHEAST OF THE PROJECT SITE AREA. MARLEY CREEK IS CLASSIFIED WITHIN USE CLASS I, CONSIDERED A TIDAL WATERSHED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND ULTIMATELY OUTFALLS TO THE PATAPSCO RIVER. PER ANNE ARUNDEL COUNTY MAPPING, MARLEY CREEK IS A PERENNIAL STREAM, REQUIRING A 100 FT BUFFER. ON AERS MAPPING, DATA INDICATES POINTS OF EROSION, HEADCUTS, AND OBSTRUCTIONS ALONG THE STREAM. A FIELD INVESTIGATION WAS PERFORMED ON MAY 11, 2023 AND DETERMINED THAT THE SWM-1A OUTFALL IS STABLE AND IN GOOD CONDITION, WITH LITTLE TO NO SIGNS OF SIGNIFICANT EROSION OR SEDIMENTATION ISSUES. THE CULVERT UNDER OLD CRAIN HIGHWAY IS IN GOOD CONDITION.

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. 21875 EXPIRATION DATE: 02-12-2026
CENTURY ENGINEERING
16911 Market Blvd, Suite 100, Beltsville, MD 20715
Phone: 410-381-9800 www.centuryeng.com



REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
DATE	APPROVED	DATE	APPROVED
	CHIEF ENGINEER		PROJECT MANAGER
	ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES

SCALE: AS INDICATED
DRAWN BY: JA/GP
CHECKED BY: PVM
SHEET NO.: C011
PROJECT NO.: P570000
PROPOSAL NO.: P570003

100% CONSTRUCTION DOCUMENTS

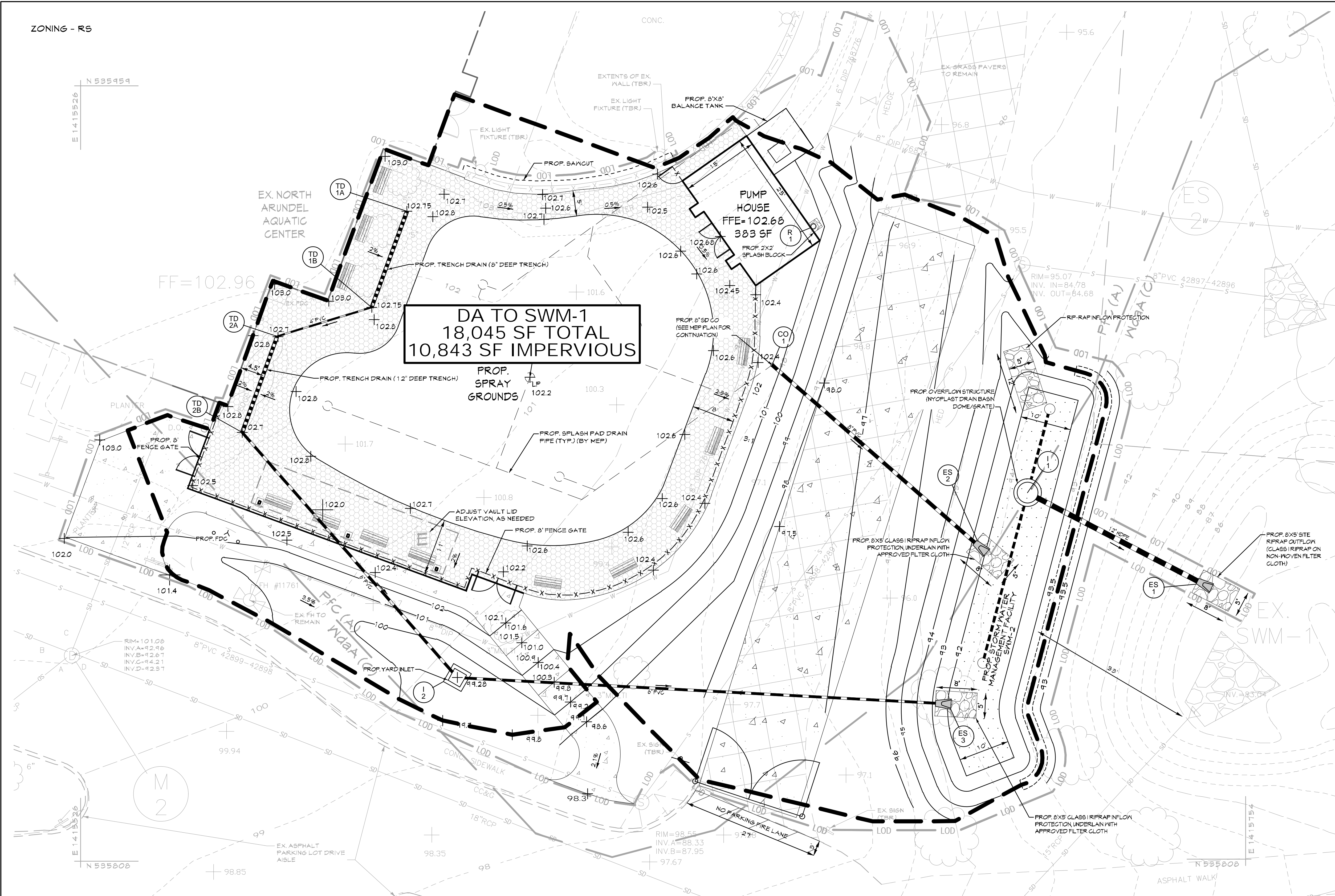
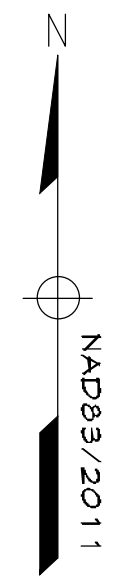
NAACL SPLASH PAD

C011
PROPOSED DRAINAGE AREA MAP
CIP# P570000

ZONING - RS

N 595959
E 1415526

N 595808
E 1415536



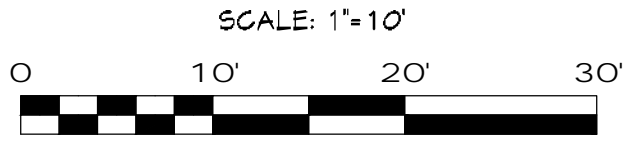
EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing B&E Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Water Line
- Existing Storm Drain
- Existing Fire Lane
- Existing RipRap

PROPOSED LEGEND

- LOD Proposed Limit of Disturbance
- Proposed Grades
- Proposed Fence
- Proposed Drainage Area
- Proposed Concrete Sidewalk
- Proposed Pump House Building
- Proposed Storm Water Facility
-

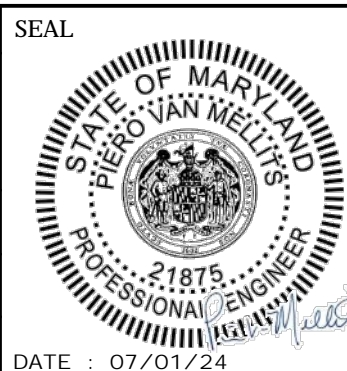
PROPOSED STORMWATER MANAGEMENT DRAINAGE AREA MAP



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. 21875 EXPIRATION DATE: 02-12-2026

MANN WOODWARD ENGINEERING
A Kleinfelder Company
16911 Montross Blvd., Suite 100, Bowie, MD 20715
Phone: 443.269.2400 www.mannwoodward.com

DESIGNED BY: JLA
DRAWN BY: GP
CHECKED BY: JVP/M



REVISION			
NO.	DESCRIPTION	BY	DATE
60	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

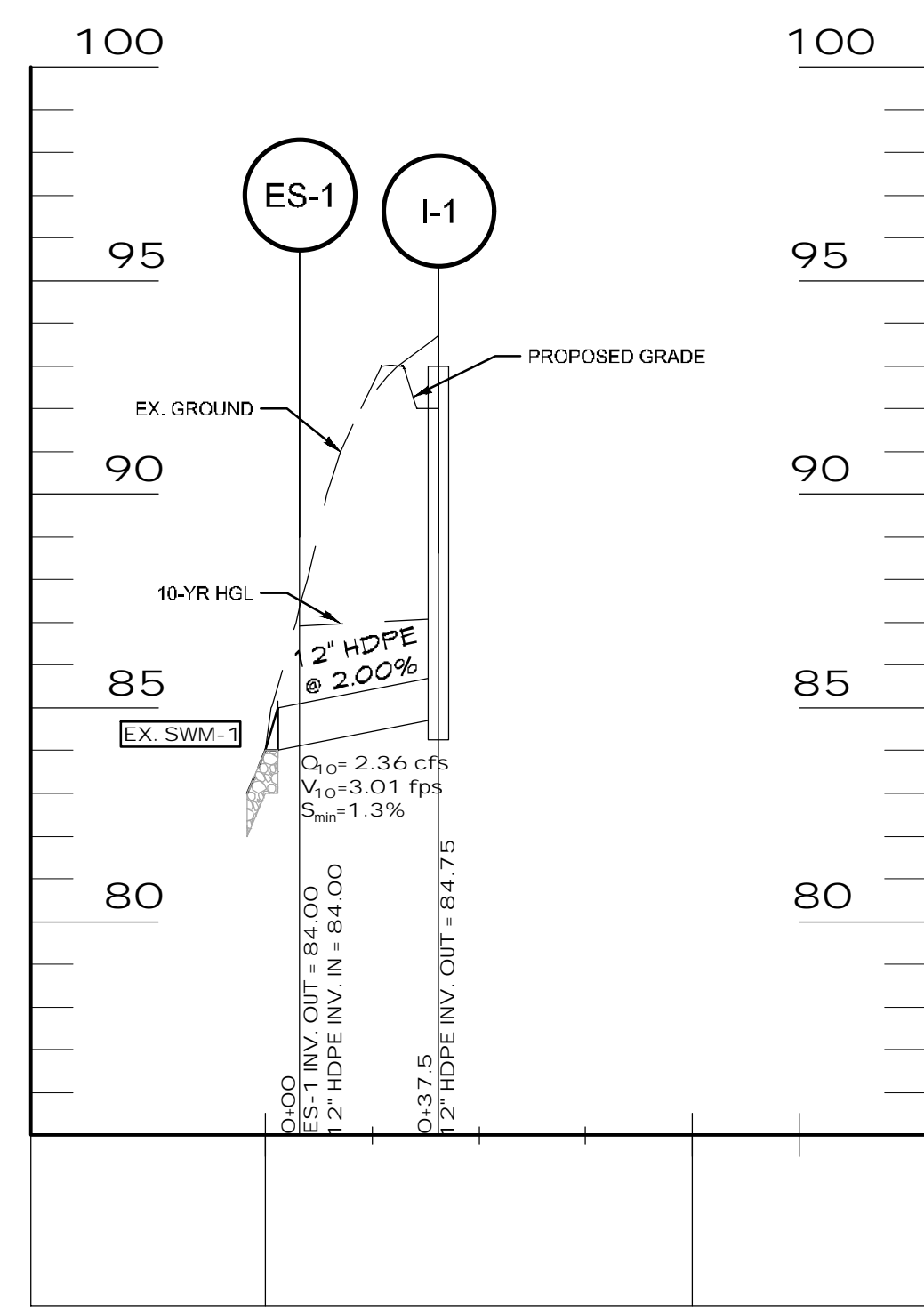
SCALE: AS INDICATED	100% CONSTRUCTION DOCUMENTS
DRAWN BY: JA/GP	
CHECKED BY: PVM	
SHEET NO.: C012	
PROJECT NO.: P570000	
PROPOSAL NO.: P570003	NAAC SPLASH PAD
	C012
	STORMWATER MANAGEMENT DRAINAGE AREA MAP CIP# P570000

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.

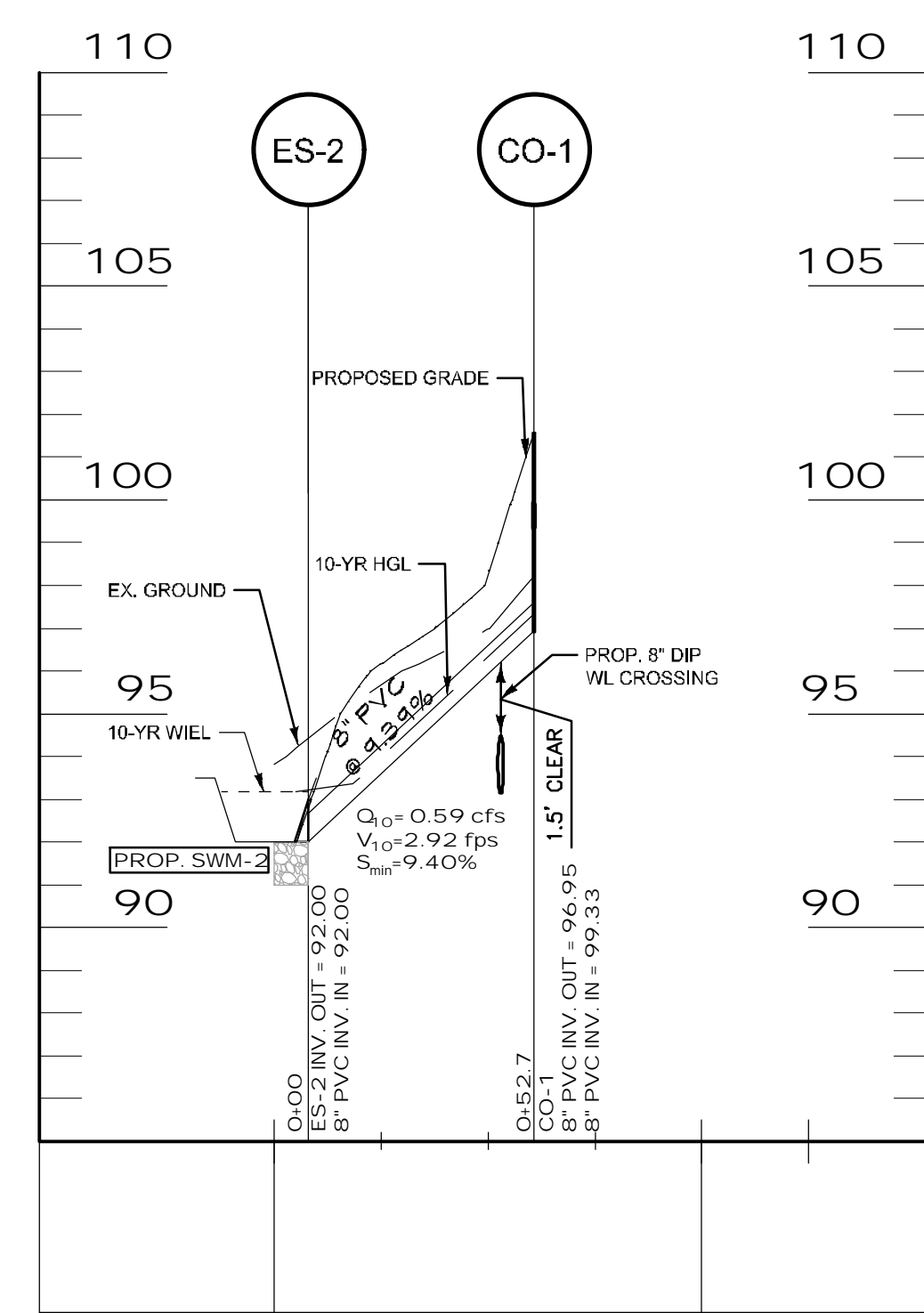
DRAWING FILENAME: PROJECT NO. 38012

STORM DRAIN PIPE SCHEDULE						
INSPECTED BY	FROM	TO	SIZE	TYPE/CLASS	LENGTH (FEET)	AS-BUILT
ANNE ARUNDEL COUNTY	ES-1	I-1	12"	HDPE	38	
ANNE ARUNDEL COUNTY	ES-2	CO-1	8"	PVC/SCH. 80	53	
ANNE ARUNDEL COUNTY	ES-3	I-2	6"	PVC/SCH. 80	94	
ANNE ARUNDEL COUNTY	I-2	TD-2B	6"	PVC/SCH. 40	64	
ANNE ARUNDEL COUNTY	TD-2B	TD-2A	N/A	N/A	20	
ANNE ARUNDEL COUNTY	TD-2A	TD-1B	4"	PVC/SCH. 40	19	
ANNE ARUNDEL COUNTY	TD-1B	TD-1A	N/A	N/A	20	

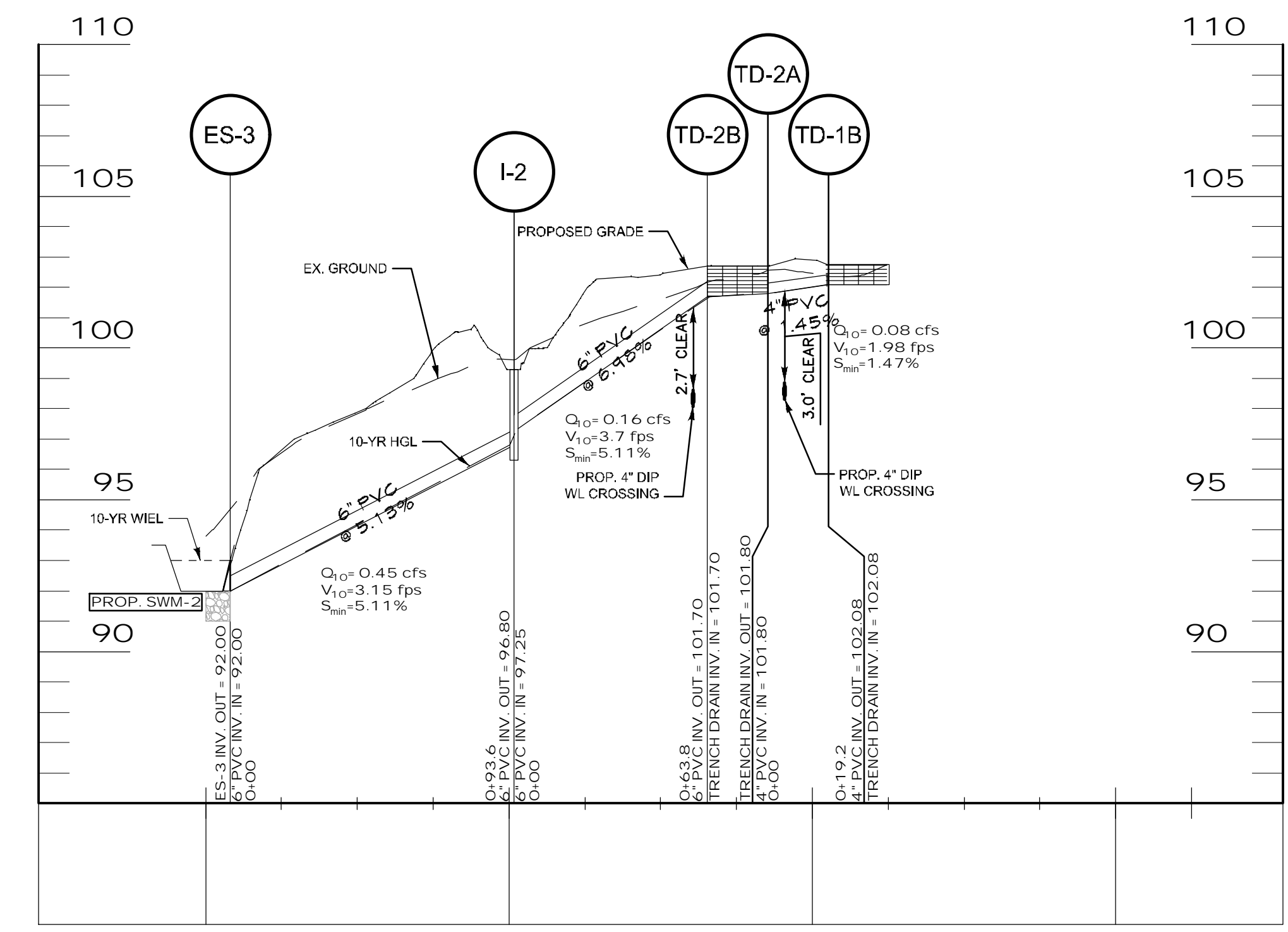
STORM DRAIN STRUCTURE SCHEDULE										
INSPECTED BY	STR. NO.	TYPE	A.A. CO. STD. DETAIL	WIDTH/ DIA	INV. IN			INV. OUT	TOP ELEVATION	COMMENTS
					1ST	2ND	3RD			
ANNE ARUNDEL COUNTY	ES-1	CONCRETE END SECTION	D-74	12" DIA				84.00	85.00	
ANNE ARUNDEL COUNTY	ES-2	CONCRETE END SECTION	SEE DETAIL	8" DIA				92.00	93.00	
ANNE ARUNDEL COUNTY	ES-3	CONCRETE END SECTION	SEE DETAIL	6" DIA				92.00	93.00	
ANNE ARUNDEL COUNTY	I-1	NYLOPLAST DRAIN BASIN	SEE DETAIL	30" DIA				84.75	93.00	
ANNE ARUNDEL COUNTY	I-2	YARD INLET	D-50	3'-2" X 3'2"			97.25	96.80	98.28	
ANNE ARUNDEL COUNTY	CO-1	CLEANOUT	S-9	8"			99.33	96.95	101.61	
ANNE ARUNDEL COUNTY	TD-1A	TRENCH DRAIN	SEE DETAIL	20' X 8"				102.08	102.75	
ANNE ARUNDEL COUNTY	TD-1B	TRENCH DRAIN	SEE DETAIL	20' X 8"			102.08	102.08	102.75	
ANNE ARUNDEL COUNTY	TD-2A	TRENCH DRAIN	SEE DETAIL	20' X 8"			101.80	101.80	102.70	
ANNE ARUNDEL COUNTY	TD-2B	TRENCH DRAIN	SEE DETAIL	20' X 8"			101.70	101.70	102.70	



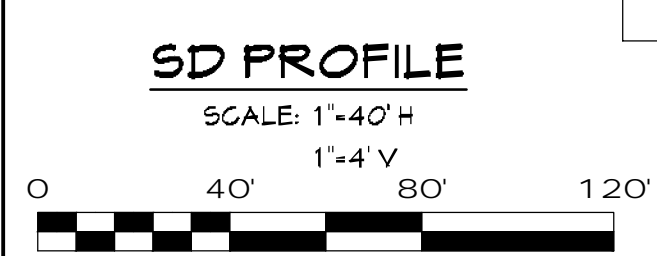
SD PROFILE: ES-1 TO I-1



SD PROFILE: ES-2 TO CO-1



SD PROFILE: ES-3 TO TD-1B



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. 21875 EXPIRATION DATE: 02-12-2026

MANN WOODWARD ENGINEERING
A Kleinfelder Company

DESIGNED BY: JLA
DRAWN BY: GP
CHECKED BY: JLV/M

DATE: 07/01/24



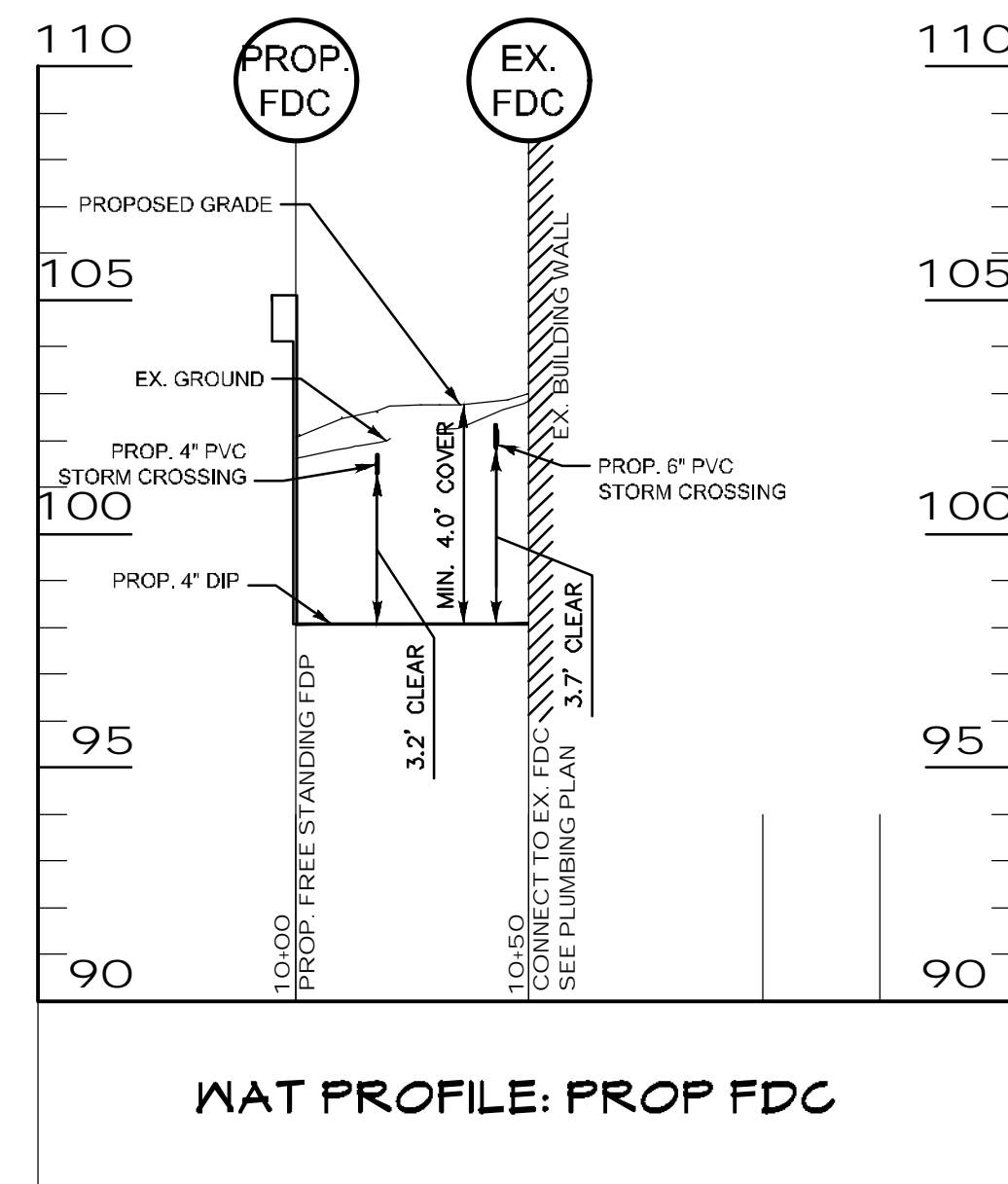
REVISION			
NO.	DESCRIPTION	BY	DATE
60	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
80	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

100% CONSTRUCTION DOCUMENTS

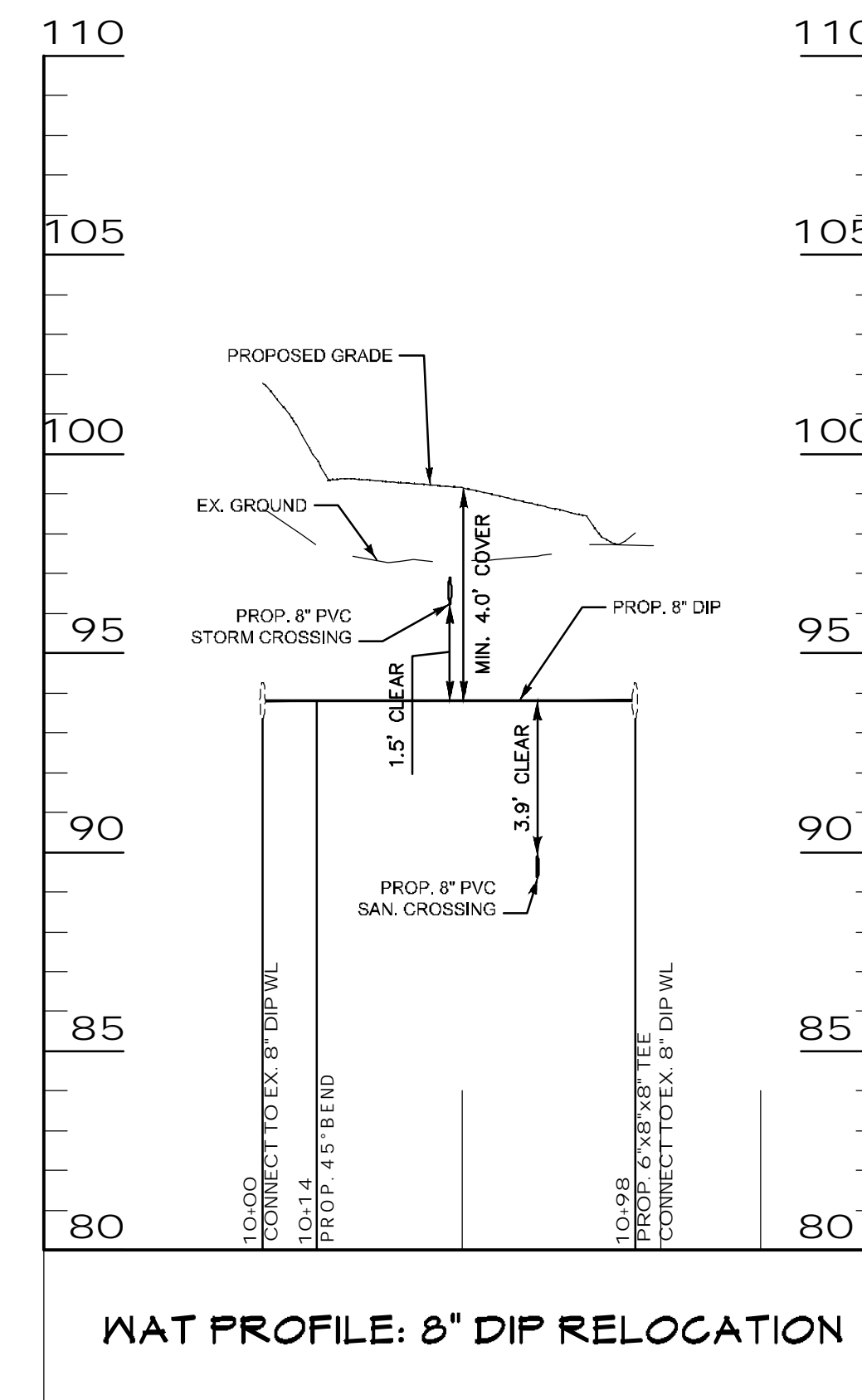
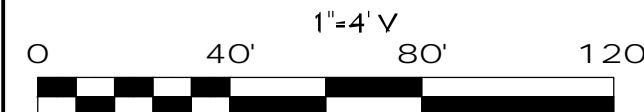
SCALE: AS INDICATED	NAAC SPLASH PAD
DRAWN BY: JA/GP	
CHECKED BY: PVM	
SHEET NO.: C013	
PROJECT NO.: P570000	C013
PROPOSAL NO.: P570003	

STORM DRAIN PROFILE
CIP# P570000

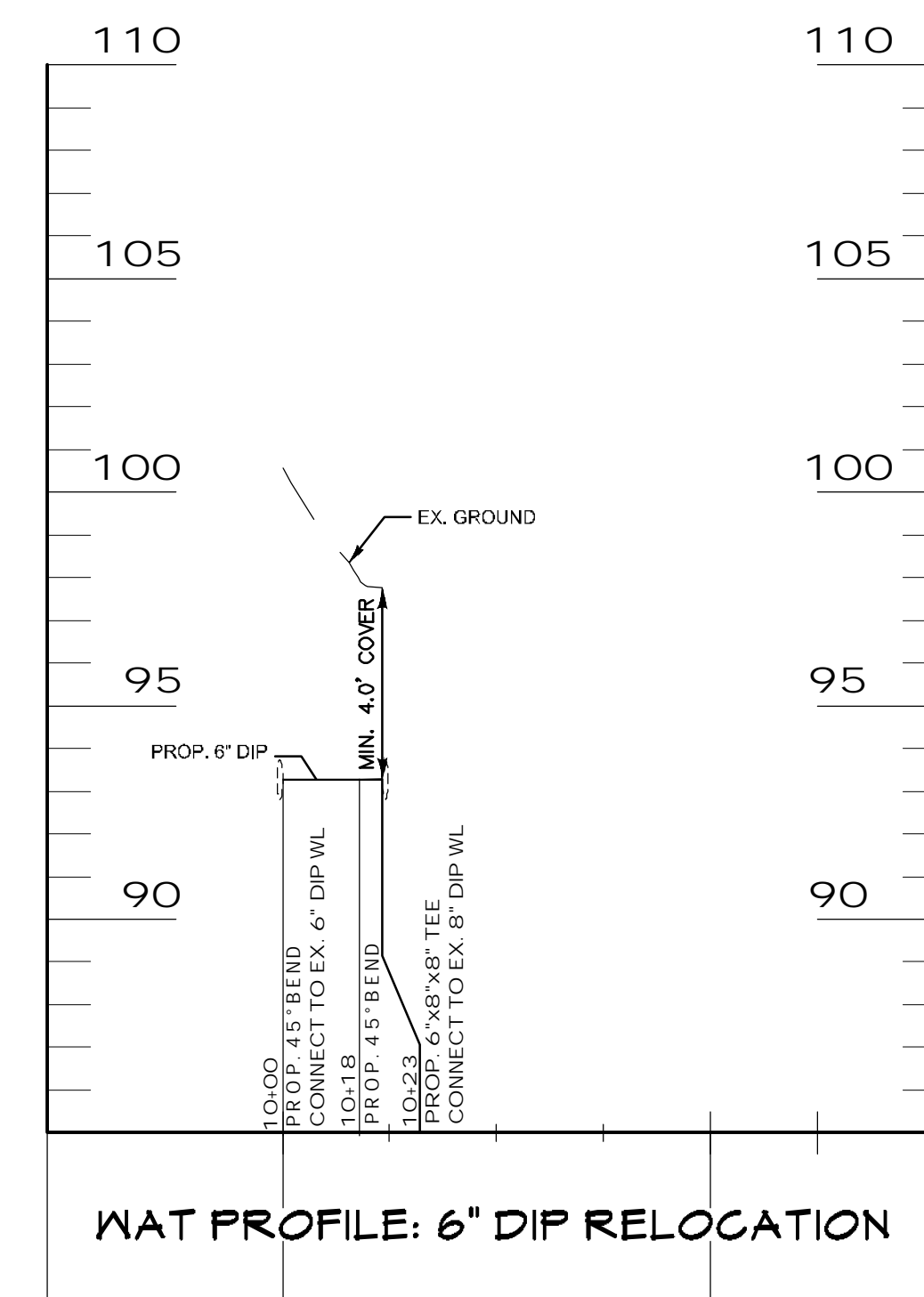


WS PROFILE

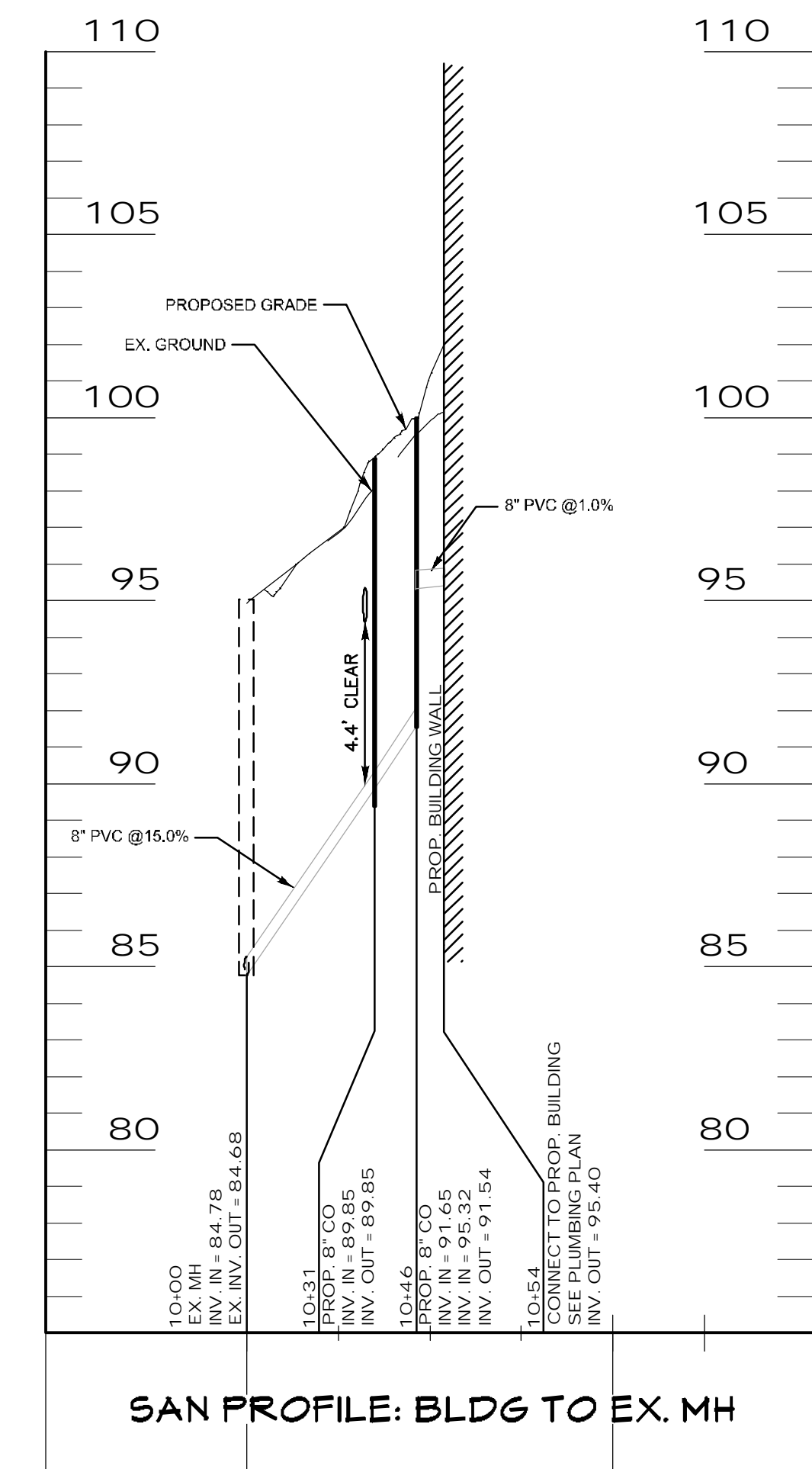
SCALE: 1"=40' H



WAT PROFILE: 8" DIP RELOCATION



WAT PROFILE: 6" DIP RELOCATION

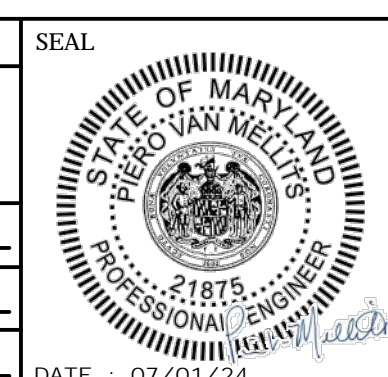


SAN PROFILE: BLDG TO EX. MH

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. 21875 EXPIRATION DATE: 02-12-2026

DESIGNED BY: JLA
 DRAWN BY: GP
 CHECKED BY: JLA/PVM

MANN'S WOODWARD STUDIOS, INC.
 16911 Maryland Blvd., Suite 100 • Bowie, MD 20715
 Phone: 443.328.2400 • www.mannsw.com



REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

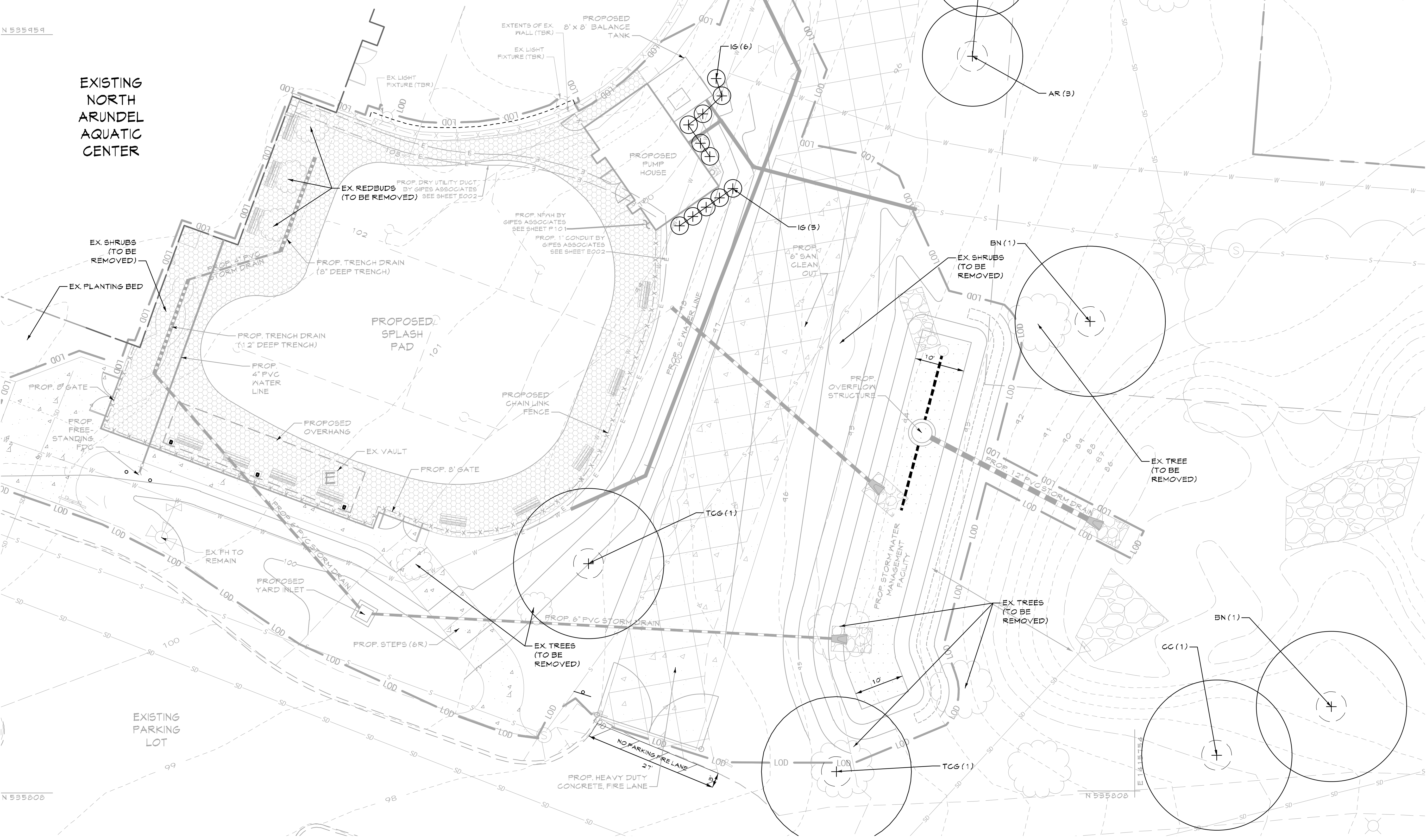
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

SCALE: AS INDICATED	100% CONSTRUCTION DOCUMENTS
DRAWN BY: JA/GP	
CHECKED BY: PVM	
SHEET NO.: C013	
PROJECT NO.: P570000	
PROPOSAL NO.: P570003	

PLANT SCHEDULE							
KEY	#	SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	SPACING	NOTES
MAJOR TREES							
AR	3	<i>Acer rubrum</i> 'Karpick'	Karpick Red Maple	2-2 1/2" cal.	B & B	20' O.C.	
BN	2	<i>Betula nigra</i> 'BNMTF Dura-Heat'	Dura-Heat River Birch	2-2 1/2" cal.	B & B	30' O.C.	
TCG	2	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	2-2 1/2" cal.	B & B	30' O.C.	
Σ	7						
MINOR TREES							
CC	1	<i>Cercis canadensis</i>	Redbud	1 1/2 - 1 3/4" cal.	B & B	30' O.C.	
Σ	1						
SHRUBS							
IG	11	<i>Ilex glabra</i> 'Shamrock'	Shamrock Inkberry	24-36" H	#3 Container	39" O.C.	
Σ	11						

EXISTING LEGEND	
	Site Property Boundary
	Existing Minor Contour
	Existing Tree Line
	Existing Drive
	Existing Building
	Existing Fence Line
	Existing BGE Utility Pole
	Existing Water Line
	Existing Sanitary Sewer
	Existing Storm Drain
	Existing Tree
	Existing Fire Lane
	Existing RipRap

PROPOSED LEGEND	
	Proposed Limit of Disturbance
	Proposed Grades
	Proposed Fence
	Proposed Concrete Sidewalk
	Proposed Pump House Building
	Proposed Storm Drain and Inlets
	Proposed Sanitary Sewer
	Proposed Water and Fire Hydrant
	Proposed Pervious Pavement
	Proposed Storm Water Facility



LANDSCAPE PLAN
SCALE: 1"=10'
0 10' 20' 30'

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. 21875 EXPIRATION DATE: 02-12-2026

MANN'S WOODWARD STUDIOS, INC.
A Kleinfelder Company
16911 Manord Blvd., Suite 100, Bowie, MD 20715
Phone: 443.269.2400 www.mannsw.com



REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

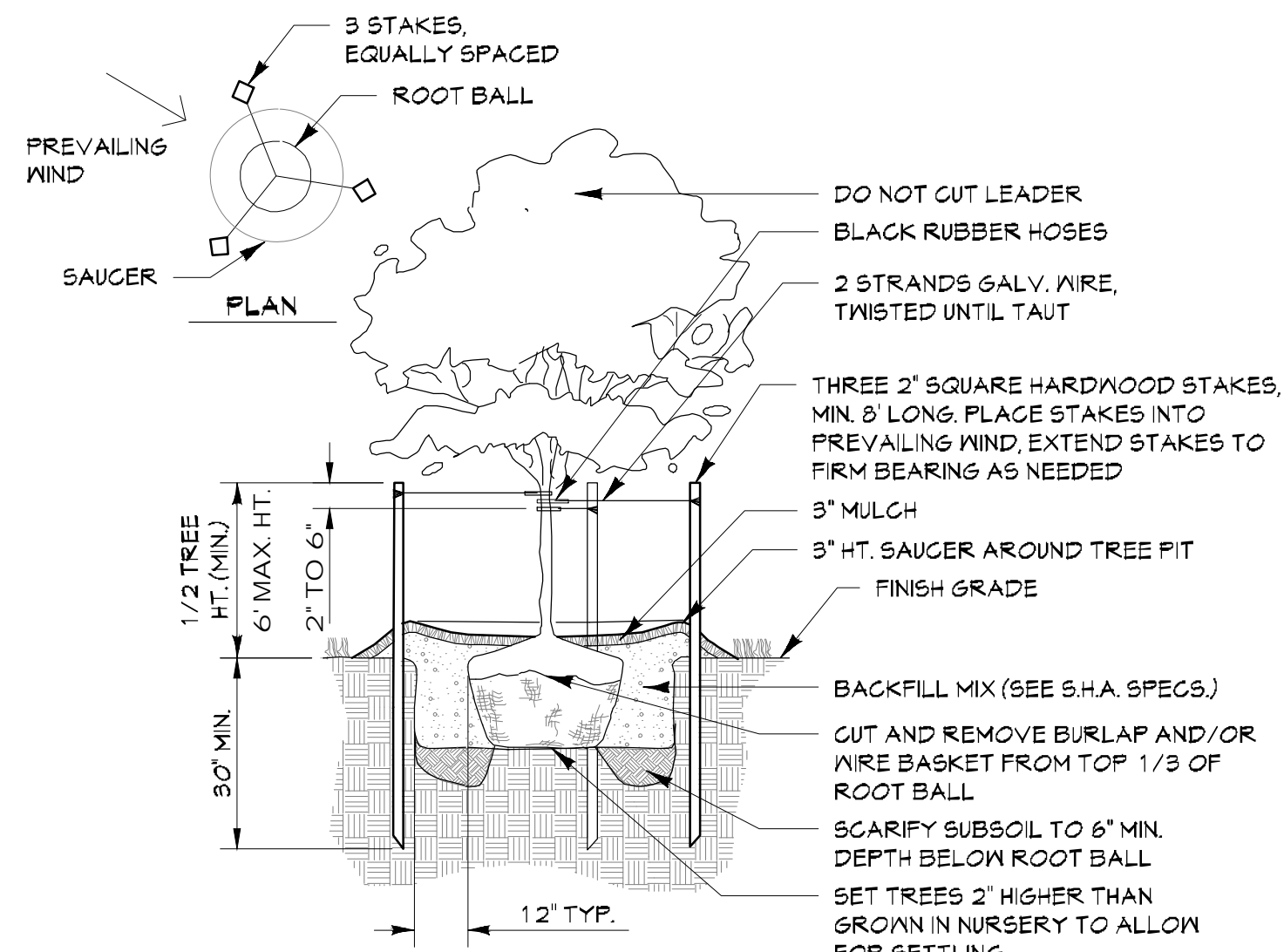
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

SCALE: AS INDICATED	100% CONSTRUCTION DOCUMENTS
DRAWN BY: JA/GP	
CHECKED BY: PVM	
SHEET NO.:	
PROJECT NO. P570000	NAACL SPLASH PAD
PROPOSAL NO. P570003	
	C015
	LANDSCAPE PLAN
	CIP# P570000

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.

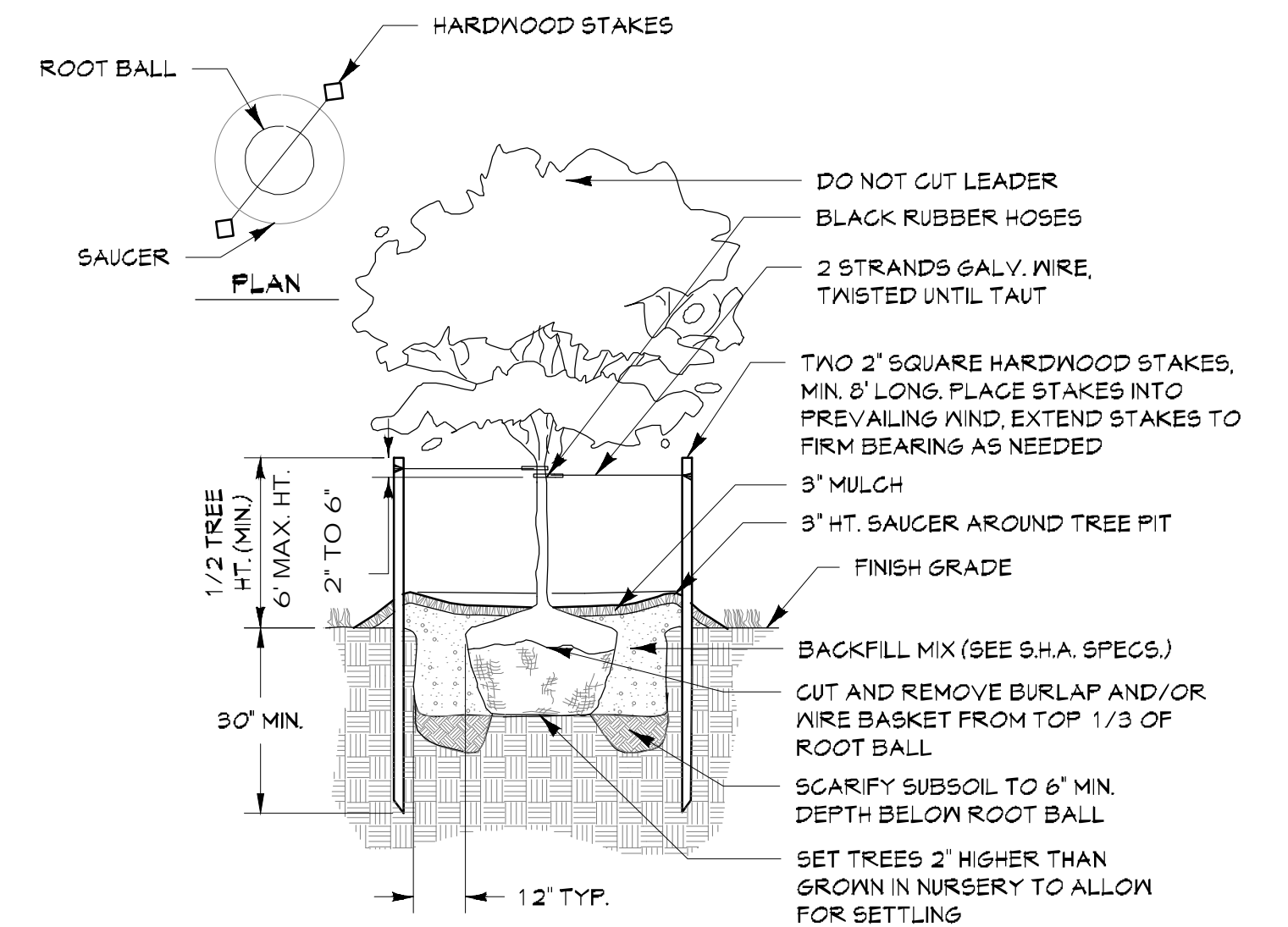
PLANTING SPECIFICATIONS

1. **Plant Materials**
 - a. The landscape contractor shall furnish and install and/or dig, ball, burlap and transplant all of the plant materials called for on the drawings and/or listed in the Plant Schedule.
 - b. Plant names used in the Plant Schedule shall be identified in accordance with Hortus Third, by L.H. Bailey, 1976.
2. **Plant Standards**
 - a. Species shall be selected that will not cause injury to property users, will grow to a size consistent with the intended use, (screening, shade, etc.) and thrive in the locations where they are being planted. Plants shall not block or interfere with walkway areas or designated view lines into or out of the site for safety reasons.
 - b. Species that are known to be invasive should be avoided, especially on properties close to or abutting natural or sensitive areas. Plants susceptible to breakage due to weak structure or known to be extremely susceptible to pests and diseases in this area shall not be used.
 - c. Tree species shall be selected that will survive in the closed soil condition of habitat consistent with their placement.
 - d. All plant materials shall be equal to or better than the requirements of the "American Standard for Nursery Stock," latest edition, as published by the American Association of Nurserymen (hereafter referred to as ANN Standards). All plants shall be typical of their species and variety, shall have a normal habit of growth and shall be first quality, sound vigorous, well-branched and with healthy, well-furnished root systems. They shall be free of disease, insect pests, and mechanical injuries.
 - e. All plants shall be nursery grown and shall have been grown under the same climatic conditions as the location of this project for at least two years before planting. Neither heeled-in plants nor plants from cold storage will be accepted.
 - f. Collected plants or transplanted trees may be called for by the landscape architect and used, provided, however, that locations and soil conditions will permit proper balling.
3. **Deciduous Shade Trees**
 - a. Size: 2-2 1/2 inch caliper
Minimum clear branch height: 7 feet in areas of pedestrian or vehicular circulation.
 - b. Surface rooted trees shall not be used in closed soil conditions or within 10 feet of pavement areas.
 - c. Trees that may only be used in reforestation or large area condition: Eastern Black Walnut, Black Locust, Tulip Poplar, Weeping Willow, Box Elder, Silver Maple.
4. **Ornamental Trees**
 - a. Size: 1 1/2 - 1 3/4 inch caliper
 - b. Spacing: To be consistent with species and use
5. **Evergreen Trees**
 - a. Size: 6 feet height
 - b. Spacing: To be consistent with species and use
6. **Shrubs**
 - a. Size: 24-36 inches in height at installation
 - b. No bare root plants or sizes less than 1 gallon container size will be accepted, other than for reforestation purposes.
 - c. Spacing: Plants shall be spaced for continuous planting or required screening.
7. **Groundcovers, Vines, Perennials, Ornamental Grasses**
 - a. Size to be consistent with intended use.
 - b. No bare root plants are to be used. Minimum size of woody species or grasses shall be 24 inches in height in one-gallon container, minimum size of perennials, vines and other grasses is one quart.
8. **Planting Season**
A professional horticulturalist/nurseryman shall be consulted to determine the proper time, based on plant species and weather conditions, to move and install particular plant material and to minimize stress to the plant.
9. **Digging**
All plant material shall be dug, balled and burlapped or bare root in accordance with the "ANN Standards."
10. **Excavation of Plant Pits**
 - a. All pits shall be generally circular in outline, and the tree deep enough to allow 1/4 of the ball to be above the existing grade. Plants shall rest on undisturbed existing soil or well-compacted backfill.
 - b. Areas designated as shrub beds shall be cultivated to at least 18 inches in depth minimum. Areas designated for herbaceous perennials, ground covers, and vines shall be cultivated to at least 12 inches in depth minimum.
11. **Plant Pruning, Edging and Mulching**
Plant material shall be pruned in an appropriate manner to its particular requirements, in accordance with accepted standard practice. Broken or bruised branches shall be removed with clean cuts made on an angle from the bark ridge to the branch collar, no flush cuts, to minimize the area cut. All cuts shall be made with sharp tools. Trim all edges smooth. No tree wound dressing shall be applied.
12. **Seeding and Sodding**
 - a. All seeding and sodding shall be as per "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas" as published by the Maryland Department of Natural Resources except as noted below.
 - b. Areas between building facades and paved surfaces shall be seeded or sodded with a mixture of three varieties of improved fall fescue at 3-4 pounds/1000 sq. ft.



DECIDUOUS TREE PLANTING

Not To Scale

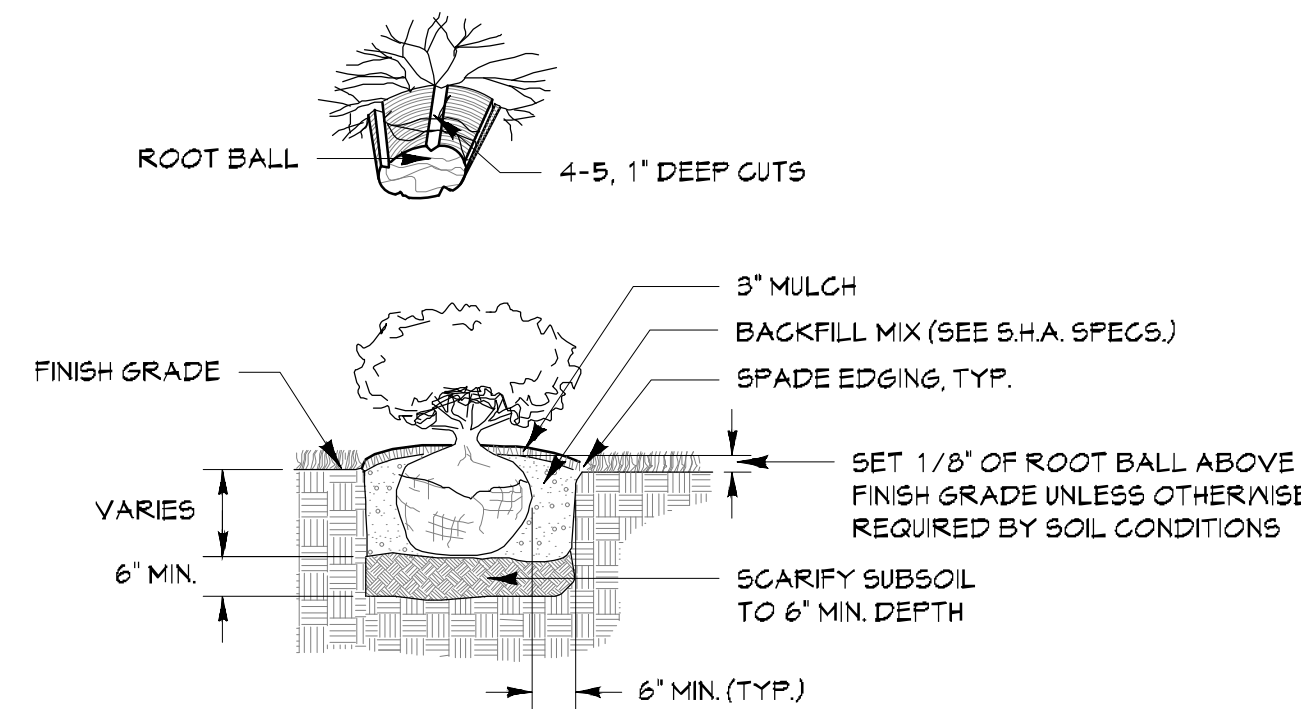


FLOWERING TREE PLANTING

Not To Scale

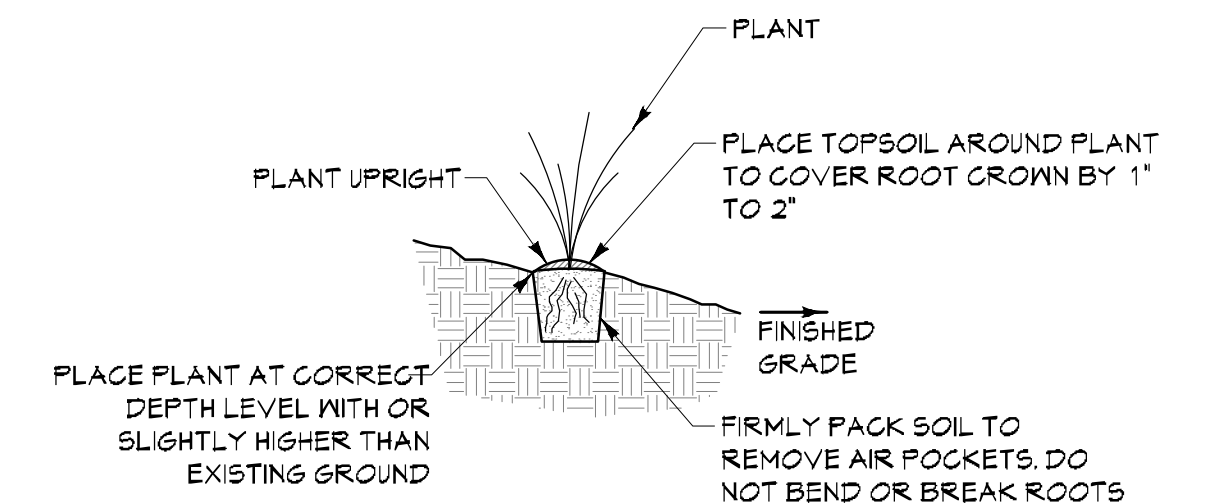
NOTES:

1. FOR CONTAINER SHRUBS, COMPLETELY REMOVE ALL NON-BIODEGRADABLE CONTAINERS AND SCARIFY ROOTBALL BY USING A SHARP BLADE AND MAKING 4 TO 5 ONE INCH CUTS THE LENGTH OF THE ROOTBALL.
2. FOR B&B SHRUBS, CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL.



SHRUB PLANTING

Not To Scale



GROUNDCOVER PLANTING

Not To Scale

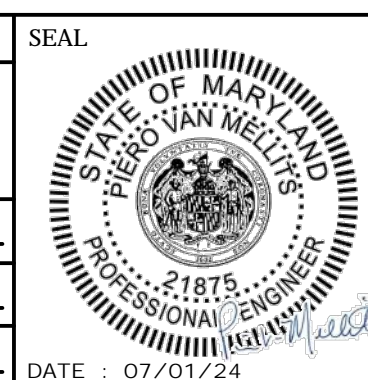
PROFESSIONAL CERTIFICATION

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. 21875 EXPIRATION DATE: 02-12-2026

MANN'S WOODWARD STUDIOS
CENTURY ENGINEERING
A Kiewit Company

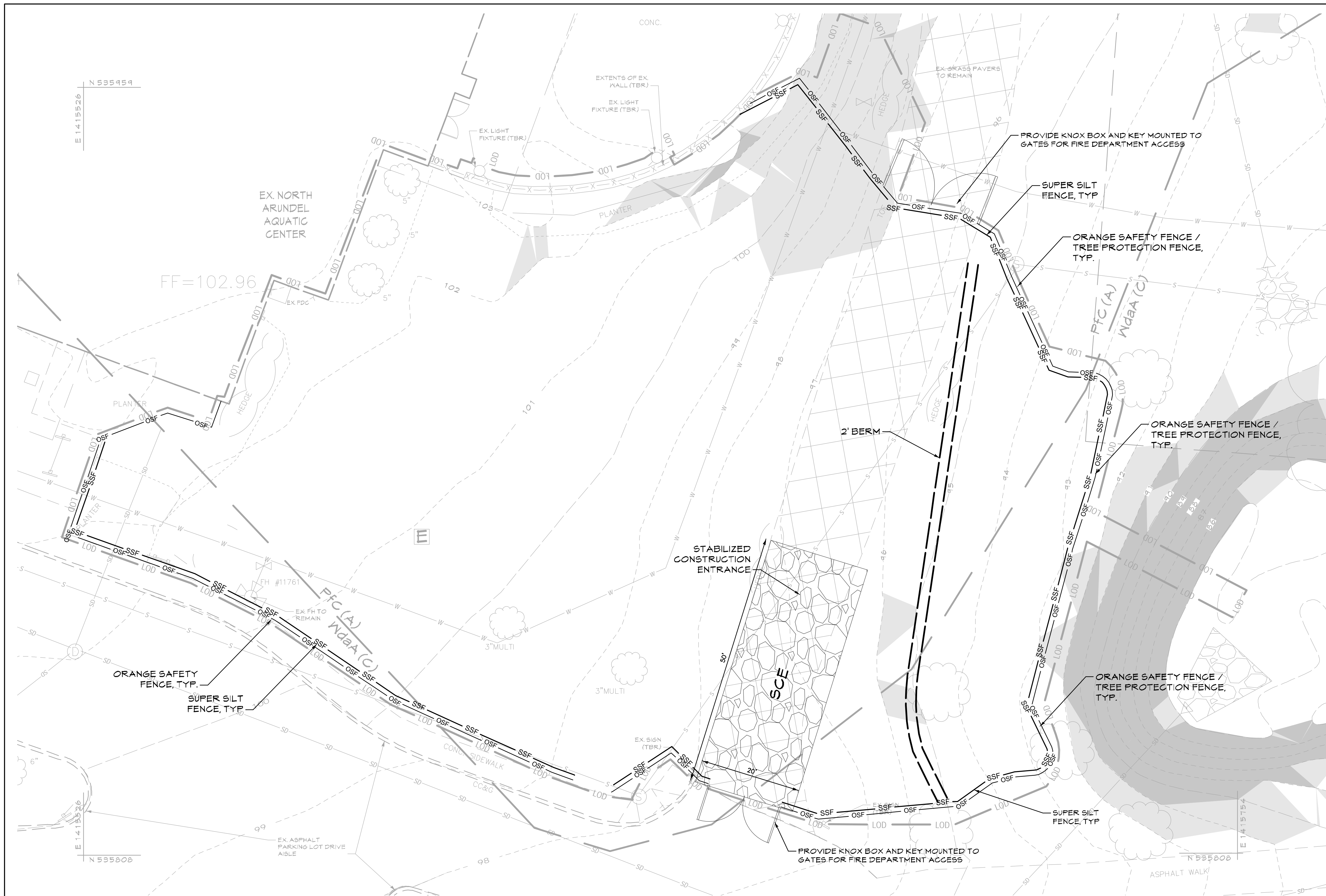
DESIGNED BY: JLA
DRAWN BY: GP
CHECKED BY: JLA/PVM



REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

100% CONSTRUCTION DOCUMENTS	
SCALE: AS INDICATED	DRAWN BY: JA/GP
CHECKED BY: PVM	SHEET NO.: C016
PROJECT NO.: P570000	PROPOSAL NO.: P570003
NAAC SPLASH PAD	
C016	
LANDSCAPE DETAILS CIP# P570000	



NAD83/2011

EXISTING LEGEND

- Site Property Boundary
- - - Existing Minor Contour
- - - Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing B&E Utility Pole
- Existing Fence Line
- Av Soil Line
- Existing Sanitary Sewer
- Existing Water Line
- Existing Storm Drain
- Existing Fire Lane
- Existing RipRap
- 15%-25% Slopes
- Greater Than 25% Slopes

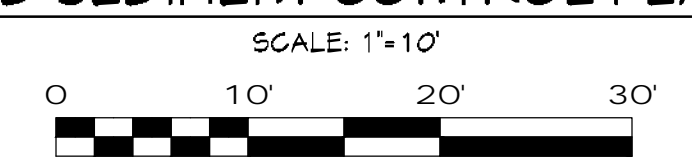
PROPOSED LEGEND

- LOD Proposed Limit of Disturbance

ESC LEGEND

- SSF Super Silt Fence
- SCE Stabilized Construction Entrance
- OSF Tree Protection Fence
- Berm

EROSION AND SEDIMENT CONTROL PLAN - PHASE 1



FIRE ACCESS NOTE

- STABILIZED SURFACING MUST REMAIN THROUGHOUT DURATION OF CONSTRUCTION OR UNTIL NEW HEAVY DUTY PAVING IS INSTALLED.
- CONTRACTOR IS PROHIBITED FROM PARKING OR STORING MATERIALS OR STOCKPILES ON THE FIRE LANE.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

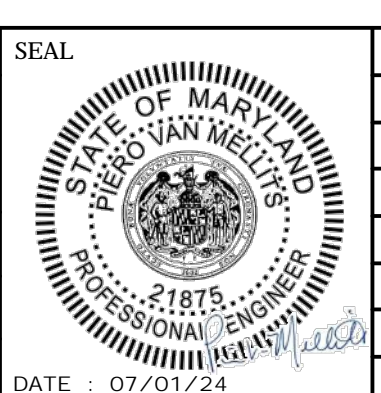
- THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SMALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

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. 21875 EXPIRATION DATE: 02-12-2026

DESIGNED BY: JLA
 DRAWN BY: GP
 CHECKED BY: JVP/M



REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

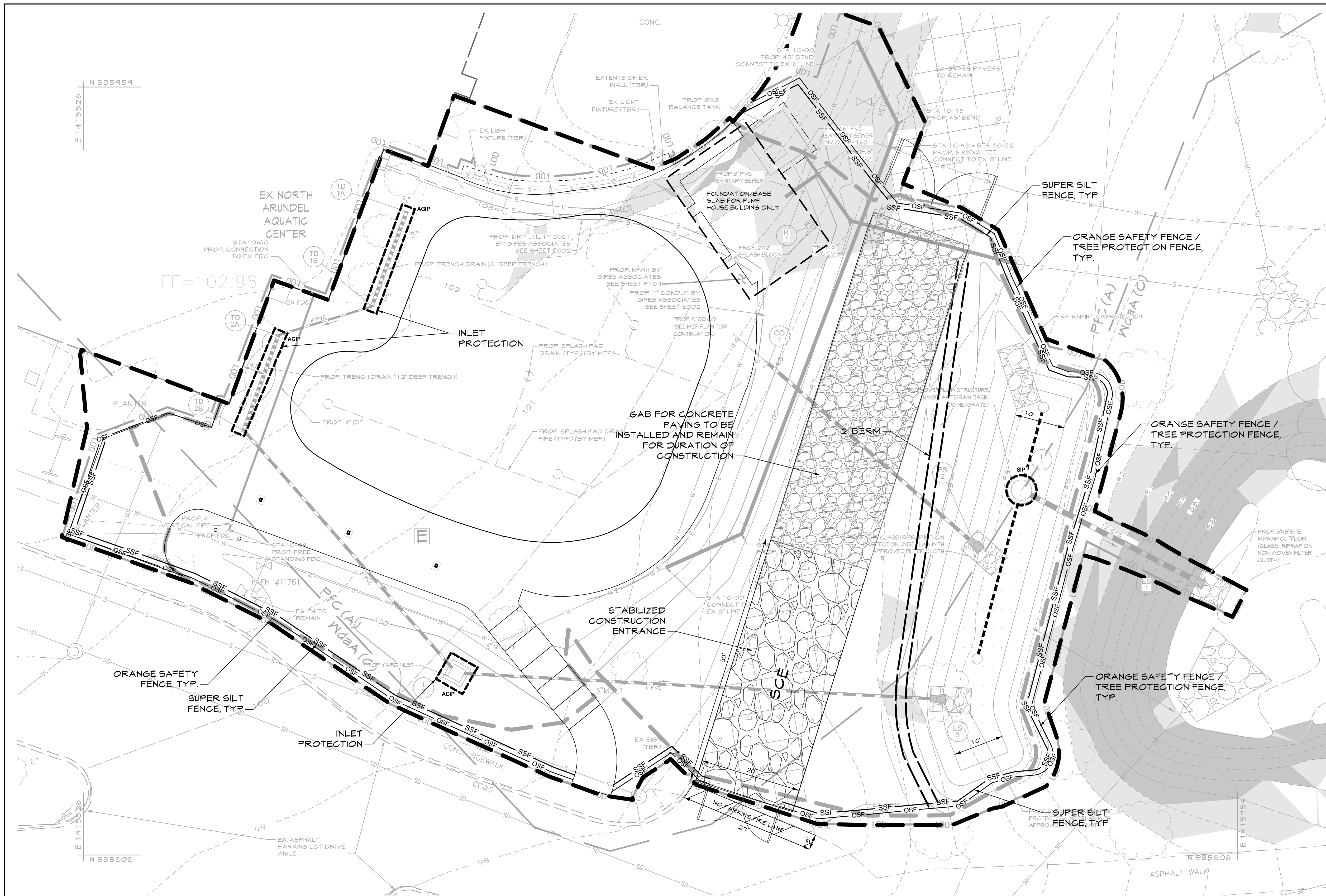
SCALE: AS INDICATED
 DRAWN BY: JA/GP
 CHECKED BY: PVM
 SHEET NO.: C017
 PROJECT NO.: P570000
 PROPOSAL NO.: P570003

100% CONSTRUCTION DOCUMENTS

NAAC SPLASH PAD

C017A
 EROSION & SEDIMENT CONTROL PLAN - PHASE 1
 CIP# P570000

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.



N
NAD83/2011

EXISTING LEGEND

- Site Property Boundary
- - - Existing Minor Contour
- - - Existing Major Contour
- ... Existing Stream
- - - Existing Stream Buffer
- ~ Existing Tree Line
- - - Existing Drive
- ▭ Existing Building
- ⊕ BGE#542497 Existing B&E Utility Pole
- X - X - Existing Fence Line
- Av Soil Line
- S Existing Sanitary Sewer
- W Existing Water Line
- SD Existing Storm Drain
- ▨ Existing Fire Lane
- ▩ Existing RipRap
- 15%-25% Slopes
- Greater Than 25% Slopes

PROPOSED LEGEND

- LOD Proposed Limit of Disturbance
- 660 Proposed Grades
- 650 Proposed Concrete Paving base
- ▭ Building foundation line

ESC LEGEND

- SSF Super Silt Fence
- AGIP At Grade Inlet Protection
- SIP Standard Inlet Protection
- SCE Stabilized Construction Entrance
- OSF Tree Protection Fence
- Berm
- GAB Graded Aggregate Base (GAB)

FIRE ACCESS NOTE

- STABILIZED SURFACING MUST REMAIN THROUGHOUT DURATION OF CONSTRUCTION OR UNTIL NEW HEAVY DUTY PAVING IS INSTALLED. INSTALL GAB FOR CONCRETE PAVING IMMEDIATELY UPON DEMOLITION OF EXISTING GRASS PAVERS TO ENSURE STABLE FIRE ACCESS THROUGHOUT CONSTRUCTION
- CONTRACTOR IS PROHIBITED FROM PARKING OR STORING MATERIALS OR STOCKPILES ON THE FIRE LANE.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SNALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

EROSION AND SEDIMENT CONTROL PLAN - PHASE 2
SCALE: 1"=10'
0 10' 20' 30'

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. 21875 EXPIRATION DATE: 02-12-2028

DATE: 07/01/24

DESIGNED BY: JLA
DRAWN BY: GP
CHECKED BY: JLA/PM

REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

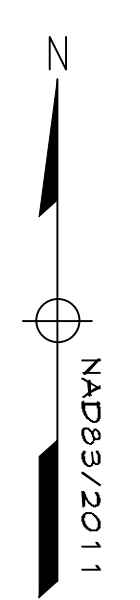
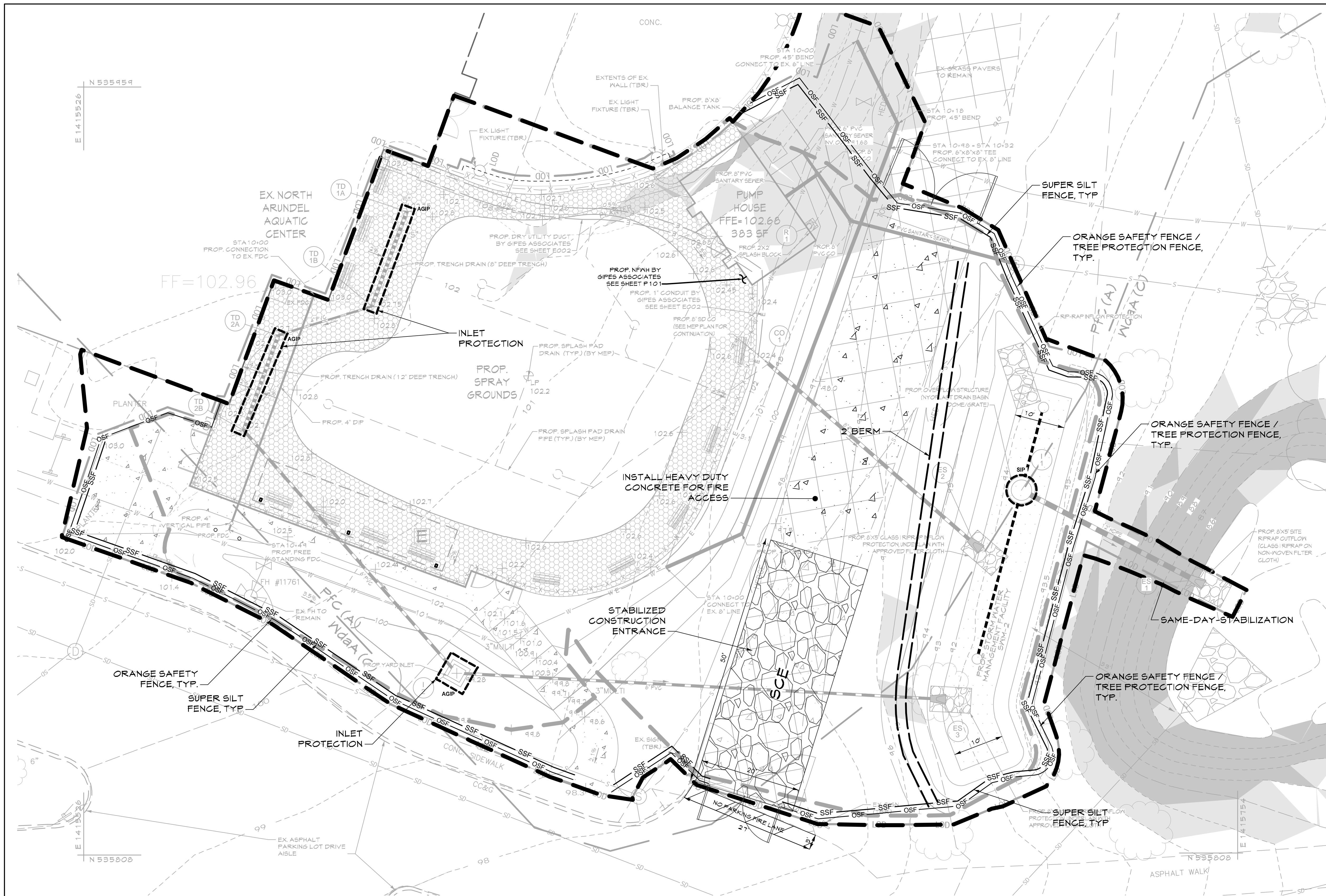
SCALE: AS INDICATED
DRAWN BY: JA/GP
CHECKED BY: PVM
SHEET NO.: C017B
PROJECT NO.: P570000
PROPOSAL NO.: P570003

100% CONSTRUCTION DOCUMENTS

NAAC SPLASH PAD

C017B
EROSION & SEDIMENT CONTROL PLAN
PHASE 2
CIP# P570000

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.



EXISTING LEGEND

- Site Property Boundary
- Existing Minor Contour
- Existing Major Contour
- Existing Stream
- Existing Stream Buffer
- Existing Tree Line
- Existing Drive
- Existing Building
- Existing B&E Utility Pole
- Existing Fence Line
- Soil Line
- Existing Sanitary Sewer
- Existing Water Line
- Existing Storm Drain
- Existing Fire Lane
- Existing RipRap
- 15%-25% Slopes
- Greater Than 25% Slopes

PROPOSED LEGEND

- Proposed Limit of Disturbance
- Proposed Grades
- Proposed Fence
- Proposed Concrete Sidewalk
- Proposed Pump House Building
- Proposed Storm Water Facility
- Proposed Sanitary Sewer
- Proposed Water Line
- Proposed Storm Drain
- Proposed Rip-Rap

ESC LEGEND

- Super Silt Fence
- At Grade Inlet Protection
- Standard Inlet Protection
- Stabilized Construction Entrance
- Tree Protection Fence
- Berm

FIRE ACCESS NOTE

1. STABILIZED SURFACING MUST REMAIN THROUGHOUT DURATION OF CONSTRUCTION OR UNTIL NEW HEAVY DUTY PAVING IS INSTALLED. INSTALL GAB FOR CONCRETE PAVING IMMEDIATELY UPON DEMOLITION OF EXISTING GRASS PAVERS TO ENSURE STABLE FIRE ACCESS THROUGHOUT CONSTRUCTION
2. CONTRACTOR IS PROHIBITED FROM PARKING OR STORING MATERIALS OR STOCKPILES ON THE FIRE LANE.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- a) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SNALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- b) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

EROSION AND SEDIMENT CONTROL PLAN - PHASE 3
SCALE: 1"=10'
0 10' 20' 30'

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. 21875 EXPIRATION DATE: 02-12-2028

M CENTURY ENGINEERING
A Kleinfelder Company

DESIGNED BY: JLA
DRAWN BY: GP
CHECKED BY: JLA/PM
DATE: 07/01/24



REVISION				
NO.	DESCRIPTION	BY	DATE	
60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023	APPROVED
90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023	
100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024	CHIEF ENGINEER
				APPROVED
				ASSISTANT CHIEF ENGINEER

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
PROJECT MANAGER	DATE	APPROVED	DATE
CHIEF, RIGHT OF WAY SERVICES	DATE	APPROVED	DATE

SCALE: AS INDICATED
DRAWN BY: JA/GP
CHECKED BY: PVM
SHEET NO.: C017C
PROJECT NO.: P570000
PROPOSAL NO.: P570003

100% CONSTRUCTION DOCUMENTS

NAAC SPLASH PAD

C017C
EROSION & SEDIMENT CONTROL PLAN
PHASE 3
CIP# P570000

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

**AASCD/MAA VEGETATIVE ESTABLISHMENT
DETAILS AND SPECIFICATIONS FOR PROJECTS
WITHIN 4 MILES OF THE BWI AIRPORT**

July 1, 2004

References to ITEM #s noted below are found in Maryland Aviation Administration's manual entitled Specifications for Performing Landscaping Activities for the Maryland Aviation Administration dated May 2001.

SOIL TESTS

- Following initial soil disturbances or re-disturbance, permanent or temporary stabilization shall be completed within **three** calendar days for the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and **seven** days for all other disturbed or graded areas on the project site.
- Occurrence of acid sulfate soils (grayish black color) will require covering with a minimum of 12 inches of clean soil with 6 inches minimum capping of top soil. No stockpiling of material is allowed. If needed, soil tests should be done before and after a 6-week incubation period to allow oxidation of sulfates.
- The minimum soil conditions required for permanent vegetative establishment are:
 - Soil pH shall be between 6.0 and 7.0.
 - Soluble salts shall be less than 500 parts per million (ppm).
 - The soil shall contain less than 40% clay but enough fine grained material (>30% silt plus clay) to provide the capacity to hold a moderate amount of moisture.
 - Soil shall contain 1.5% minimum organic matter by weight.
 - Soil must contain sufficient pore space to permit adequate root penetration.
 - If these conditions cannot be met by soils on site, adding topsoil is required in accordance to ITEM 901 or amendments made as recommended by a certified agronomist.

SEEDING

ITEM 903 SEEDING

DESCRIPTION

903-1.1 GENERAL. This item provides specifications for seeding of areas as designated on plans or as directed by the MAA Engineer. The species, mixtures, and methods of application provided in this item have been designed to reduce the attractiveness of airport grounds to wildlife. Only MAA-approved species, mixtures, and rates of application provided in this item may be used to establish vegetation. All activities associated with seeding including soil preparation, seed application, fertilization, and maintenance shall also conform to these approved standards.

MATERIALS

903-2.1 SEED. All seed shall comply with the Maryland Seed Law (Agricultural Article of the Annotated Code of Maryland). Only MAA-approved species, mixtures, and rates of application provided in this item may be used to establish vegetation. Seed will be sampled and tested by an inspector from the Turf and Seed Section, Maryland Department of Agriculture (MDA), Annapolis, Maryland. All lawn and turf seed and mixtures shall be free from the following state-listed restricted noxious weeds:

Corn Cockle (Agrostemma githago)	Orchardgrass (Daactylis glomerata)
Bentgrass (Agrostis spp.)*	Tall Fescue (Festuca arundinacea)*
Redtop (Agrostis gigantea)*	Meadow Fescue (Festuca pratensis)*
Wild Onion (Allium canadense)	Velvetgrass (Holcus lanatus)
Wild Garlic (Allium vineale)	Annual Bluegrass (Poa annua)
Bindweed (Calystegia spp.)	Rough Bluegrass (Poa trivialis)*
Dodder (Cuscuta spp.)	Timothy (Phleum pra
tense)	
Bermuda Grass (Cynodon dactylon)	Johnson Grass (Sorghum halepense)

Restricted noxious-weed seed may not exceed 0.5 percent by weight of any seed mixture. In addition, all seed sold in Maryland shall be free from the following listed prohibited noxious weeds: Balloonvine (Cardiospermum halicacabum), Quackgrass (Elytrigia repens), Sicklepod (Senna obtusifolia), Sorghum (Sorghum spp.), Canada thistle (Cirsium arvense), Plumless thistle (Carduus spp.-includes musk thistle and curled thistle), and Serrated tussock (Nassella trichotoma).

*These species may be included as a labeled component of a mixture when each is present in excess of five percent of the mixture by weight.

903-2.1.1 APPROVED SPECIES. The following table contains species that are approved by MAA for use in seed mixtures. Purity requirements and germination requirements are also provided.

APPROVED PLANT SPECIES			
MAA SEED MIXTURES	Purity ^a Not Less than %	Minimum % Germination ^a	Pure Live Seed Factor
Certified Turf-Type Tall Fescue (Festuca arundinacea)	98	90	1.13
Certified Kentucky Bluegrass (Poa pratensis)	90	80	1.39
Hard Fescue (Festuca longifolia)	98	90	1.13
Chewing Red Fescue (Festuca rubra commutata)	98	90	1.13
Annual Ryegrass (Lolium multiflorum)	95	85	1.24
Perennial Ryegrass (Lolium perenne)	90	80	1.39
Fowl Meadow Grass	90	80	1.39

NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN

* THREE CALENDAR DAYS FOR THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1)

* SEVEN DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE

* THE ABOVE REQUIREMENTS DO NOT APPLY TO INTERIOR AREAS OF A SURFACE MINE SITE WHERE THE STABILIZATION MATERIAL WOULD CONTAMINATE THE RECOVERABLE RESOURCE. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE THAT THE STABILIZED AREAS CONTINUOUSLY MEET THE APPROPRIATE REQUIREMENTS OF THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

(Poa palustris)	62	94	1.71
Little Bluestem (Andropogon scoparius)			

^aThe percentage weight of pure seed present shall be free of any agriculture seeds, inert matter, and other seeds distinguishable by their appearance.
^bThe percentage of germination shall be actual sprouts and shall not include hard seeds unless specifically permitted by the MAA Engineer.

903-2.1.2 PURITY. All seed shall be free of all state-designated noxious weeds listed in Paragraph 2.1.1 and conform to MAA specifications. To ensure compliance, MAA requires sampling and testing of seed by the Turf and Seed Section, Maryland Department of Agriculture (MDA). The Contractor shall furnish the MAA Engineer with duplicate signed copies of a statement by the Turf and Seed Section certifying that each lot of seed has been laboratory tested within six months of date of delivery. This statement shall include the following information:

- Name and address of laboratory,
- Date of test,
- Lot number,
- The results of tests as to name, percentages of purity and of germination
- Percentage of weed content for the seed furnished, and
- In the case of a mixture, the proportions of each kind of seed.

Seed shall be furnished in standard containers with the seed name, lot number, net weight, percentages of purity, germination rate and hard seed, and percentage of maximum weed seed content clearly marked. All seed containers shall be tagged with a MDA supervised mix program seed tag.

903-2.1.3 MIXTURES AND APPLICATION RATES. Only seed mixtures and application rates described in this item may be used unless otherwise approved by the MAA Engineer. Seed mixtures shall meet criteria detailed in Paragraph 903-2.1.2. Seed mixtures have been formulated to minimize the attractiveness of areas to wildlife of common landscape scenarios. The appropriate seed mixture for application will be designated based on environmental conditions and may vary from site to site. All planting rates listed are in pounds of Pure Live Seed (PLS) per acre.

Seed mixtures, application scenarios, and rates for permanent cool-season grasses are as follows:

- Seed Mixture No. 1** – relatively flat areas (grade less than 4:1) subject to normal conditions and regular mowing (Application rate = 234 lbs PLS/acre).
- Seed Mixture No. 2** – sloped areas (grade greater than 4:1) not subject to regular mowing (Application rate = 115 lbs PLS/acre).
- Seed Mixture No. 3** – wetlands and their associated buffer zones (Application rate = 131 lbs PLS/acre).

Seed Mixture No. 1: Relatively flat areas regularly mowed and exposed to normal conditions (Application rate = 234 lbs PLS/acre)

Seed	Rate of Application (lbs of PLS/acre)
85% Certified Turf-Type Tall Fescue	192
10% Certified Kentucky Bluegrass	28
5% Perennial Ryegrass	14
Supplemental Seed	
Annual Ryegrass	25

Seed Mixture No. 2: Sloped areas not subject to regular mowing (Application rate = 115 lbs PLS/acre)

Seed	Rate of Application (lbs of PLS/acre)
75% Hard Fescue	85
20% Chewings Fescue	23
5% Kentucky Bluegrass	7
Supplemental Seed	
Redtop	3

Seed Mixture No. 3: Wetland areas and their associated buffer zones (Application rate = 131 lbs PLS/acre)

Seed	Rate of Application (lbs of PLS/acre)
60% Fowl Meadow Grass	83
30% Chewings Fescue	34
10% Perennial Ryegrass	14
Supplemental Seed	
Redtop	3

903-2.1.4 SEEDING SEASONS. Application of seed and seed mixtures shall occur within a specified seeding season unless otherwise approved by the MAA Engineer. No seed or seed mixtures are to be applied on frozen ground or when the temperature is at or below 35 degrees Fahrenheit. Under these conditions, a layer of mulch should be applied in accordance with Item 905. Mulching, to stabilize the site, and permanent seeding should occur in the subsequent seeding season. Seed application may occur during the seeding season dates listed

below. Seeding performed after October 20 should be a temporary cover of annual ryegrass and followed by overseeding of the appropriate seed mixture during the spring seeding season.

SEEDING SEASONS	
Permanent Cool-Season Grasses	March 1 to April 20 and August 1 to October 20, inclusive
Temporary Cover of Annual Rye/Redtop	March 1 to April 30 and August 1 to November 30, inclusive
Temporary Cover of Warm-Season Grasses (Little Bluestem only)	May 1 to July 31, inclusive. Rate of application should be 13.6 lbs PLS/acre

Seeding seasons are based on typical years and can be subject to variation, which may be modified by the MAA Engineer based on seasonal trends.

If the time required to complete any of the operations necessary under this item, within the specified planting season or any authorized extensions thereof, extends beyond the Contract period, then such time will be charged against the Contract time, and liquidated damages will be enforced with respect to this portion of work.

903-2.2 LIME. Lime shall consist of ground limestone and contain at least 85% total carbonates. Lime shall be ground to a fineness so that at least 90% will pass through a No. 20 mesh sieve and 50% will pass through a No. 100 mesh sieve. Dolomitic lime or a high magnesium lime shall contain at least 10% magnesium oxide. Lime shall be applied by approved methods detailed in Section 903-3.3 of this item. The rate of application will be based on results of soil tests.

903-2.3 FERTILIZER. Fertilizer shall be standard commercial fertilizer (supplied separately or in mixtures) and meet the requirements of applicable state and federal laws (O-F-241) as well as standards of the Association of Official Agricultural Chemists. Nitrogen-Phosphorus-Potassium (N-P-K) concentrations shall be determined from analysis of soil samples. *(Approved fertilizer rate: 21 pounds of 10-10-10 per 1,000 square feet.)* Methods of fertilizer application shall conform to standards described in Section 903-3.3 of this item. Fertilizer shall be furnished in standard containers that are clearly labeled with name, weight, and guaranteed analysis of the contents (percentage of total nitrogen, available phosphoric acid, and water-soluble potash). Mixed fertilizers shall not contain any hydrated lime or cyanamide compounds. Fertilizers failing to meet the specified analysis may be approved by the MAA Engineer, providing sufficient materials are applied to conform with the specified nutrients per unit of measure without additional cost to MAA.

The fertilizers may be supplied in the following forms:

- A dry, free-flowing fertilizer suitable for application by a common fertilizer spreader;
- A finely ground fertilizer soluble in water, suitable for application by power sprayers; or
- A granular or pellet form suitable for application by blower equipment.

The rate of application will be based on results of soil tests performed by the University of Maryland Soil Testing Laboratory. By law, persons applying fertilizer to State-owned land shall follow the recommendations of the University of Maryland as set forth in the "Plant Nutrient Recommendations Based on Soil Tests for Turf Maintenance" and the "Plant Nutrient Recommendations Based on Soil Tests for Sod Production" (see Appendix B). Application of the fertilizer shall be in a manner that is consistent with the recommendations of the University of Maryland Cooperative Extension.

CONSTRUCTION METHODS AND EQUIPMENT

903-3.1 GENERAL. This section provides methods for the application of and includes standards for seedbed preparation, methods of application, and equipment to be used during the process. Lime and fertilizer shall be applied to seeded areas before the seed is spread. The mixture of seed will be determined for sites based on environmental conditions as described in Paragraph 903-2.1.3.

903-3.2 ADVANCE PREPARATION. Areas designated for seeding shall be properly prepared in advance of seed application. The area shall be filled and graded prior to application of lime and fertilizer, and the surface area shall be cleared of stones larger than 1 inch in diameter, sticks, stumps, and other debris that might interfere with sowing of seed, growth of grasses, or subsequent maintenance of grass-covered areas. Damage caused by erosion or other forces that occur after the completion of grading shall be repaired prior to the application of fertilizer and lime. The Contractor will repair such damage, which may include filling gullies, smoothing irregularities, and repairing other incidental damage before beginning the application of fertilizer and ground limestone.

If an area to be seeded is sparsely sodded, weedy, barren and unworked, or packed and hard, all grass and weeds shall first be cut or otherwise satisfactorily disposed of, and the soil then scarified or otherwise loosened to a depth not less than 5 inches (125mm). Clods shall be broken and the top 3 inches (75mm) of soil shall be worked into a satisfactory condition by discing or by use of cultipackers, rollers, drags, harrows, or other appropriate means.

An area to be seeded shall be considered a satisfactory seedbed (without requiring additional treatment) if it has recently been thoroughly loosened and worked to a depth of not less than 5 inches; the top 3 inches of soil is loose, friable, and is reasonably free from large clods, rocks, large roots, or other undesirable matter; appropriate amounts of fertilizer and lime have been added; and, if it has been shaped to the required grade immediately prior to seeding. For slope areas steeper than 3:1 (three horizontal to one vertical), the subsoil shall be loose to a depth of 1 inch.

After completion of tilling and grading, lime and fertilizer shall be applied within 48 hours according to the specified rate (Paragraphs 903-2.2 and 2.3) and methods (Paragraphs 903-3.3.1 and 903-3.3.2) approved by MAA. The seeding mixture shall be applied within 48 hours after application of lime and fertilizer. To firm the seeded areas, cultipacking shall occur immediately after seeding.

903-3.3 METHODS OF APPLICATION. Lime, fertilizer, and seed mixes shall be applied by either the dry or wet application methods that have been approved by MAA and are detailed below.

903-3.3.1 DRY APPLICATION METHOD

- Liming.** If soil test results indicate that lime is needed, the following procedures will be used: following advance preparation of the seedbed, lime shall be applied prior to the application of any fertilizer or seed and only on seedbeds that have been prepared as described in Paragraph 903-3.2. The lime shall be uniformly spread and worked into the top 2 inches of soil, after which the seedbed shall be properly graded again.
- Fertilizing.** Following advance preparations (and liming if necessary), fertilizer shall be spread uniformly at the specified rate to provide no less than the minimum quantity stated in Paragraph 903-2.3.
- Seeding.** Seed mixtures shall be sown immediately after fertilization of the seedbed. The fertilizer and seed shall be lightly raked to a depth of 1 inch for newly graded and disturbed areas.
- Rolling.** After the seed has been properly covered, the seedbed shall be immediately compacted using a cultipacker or an approved lawnmower.

903-3.3.2 WET APPLICATION METHOD/HYDROSEEDING

- General.** The Contractor may elect to apply seed and fertilizer as per Paragraphs c and d of this section in the form of an aqueous mixture by spraying over the previously prepared seedbed using methods and equipment approved by MAA. The rates of application shall be as specified in Paragraphs 903-2.1 through 903-2.3.
- Spraying Equipment.** The spraying equipment shall have a container or water tank equipped with a liquid level gauge capable of reading increments of 50 gallons or less over the entire range of the tank capacity. The liquid level gauge shall be mounted so as to be visible to the nozzle operator at all times. The container or tank shall also be equipped with a mechanical power-driven agitator capable of keeping all the solids in the mixture in complete suspension at all times until used.

The spraying equipment shall also include a pressure pump capable of delivering 100 gallons per minute at a pressure of 100 pounds per square inch. The pressure pump assembly shall be configured to allow the mixture to flow through the tank when not being sprayed from the nozzle. All pump passages and pipelines shall be capable of providing clearance for 5/8-inch solids. The power unit for the pump and agitator shall have controls mounted so as to be accessible to be accessible to the nozzle operator. A pressure gauge shall be connected to and mounted immediately behind the nozzle.

The nozzle pipe shall be mounted on an elevated supporting stand in such a manner that it can be rotated through 360 degrees horizontally and inclined vertically from at least 20 degrees below to at least 60 degrees above the horizontal. There shall be a quick-acting, three-way control valve connecting the recirculating line to the nozzle pipe and mounted so that the nozzle operator can control and regulate the amount of flow of mixture to be supplied so that mixtures may be properly sprayed over a distance varying from 20 feet to 100 feet. One shall be a close-range ribbon nozzle, one a medium-range ribbon nozzle, and one a long-range jet nozzle. For ease of removal and cleaning, all nozzles shall be connected to the nozzle pipe by means of quick-release couplings. In order to reach areas inaccessible to the regular equipment, an extension hose at least 50 feet in length shall be provided which the nozzles may be connected to.

- Mixtures.** Lime shall be applied separately in the quantity specified, prior to the fertilizing and seeding operations. Lime should be added to and mixed with water at a concentration not to exceed 220 pounds of lime for every 100 gallons of water. After lime has been applied, the tank should be emptied and rinsed with fresh water. Seed and fertilizer shall be mixed together in the relative proportions specified, but the resulting concentration should not exceed 220 pounds of mixture per 100 gallons of water and should be applied within 30 minutes to prevent fertilizer burn of the seeds.

All water used shall be obtained from fresh water sources and shall be free from injurious chemicals and other toxic substances harmful to plant life. Brackish water shall not be used at any time. The Contractor shall identify all sources of water to the MAA Engineer at least two weeks prior to use. The Engineer may take samples of the water at the source or from the tank at any time and have a laboratory test the samples for chemical and saline content. The Contractor shall not use any water from any source that is disapproved by the Engineer following such tests.

All mixtures shall be constantly agitated from the time they are mixed until they are finally applied to the seedbed. All such mixtures shall be used within 30 minutes from the time they were mixed or they shall be wasted and disposed of at a location acceptable to the Engineer.

- Spraying.** Lime shall be sprayed upon previously prepared seedbeds on which the lime, if required, shall have been worked in already. The mixtures shall be applied using a high-pressure spray which shall always be directed upward into the air so that the mixtures will fall to the ground in a uniform spray. Nozzles or sprays shall never be directed toward the ground in such a manner that might produce erosion or runoff. Particular care shall be exercised to ensure that the application is made uniformly, at the prescribed rate, and to guard against misses and overlapped areas. Predetermined quantities of the mixture shall be used in accordance with specifications to cover specified sections of known areas. To check the rate and uniformity of application, the applicator will observe the degree of wetting of the ground or distribute test sheets of paper or pans over the area at intervals and observe the quantity of material deposited thereon.

On surfaces that are to be mulched as indicated by the plans or designated by the MAA Engineer, seed and fertilizer applied by the spray method need not be raked into the soil

or rolled. However, on surfaces on which mulch is not to be used, the raking and rolling operations will be required after the soil has dried.

903-3.4 MAINTENANCE OF SEEDED AREAS. The contractor shall protect seeded areas against traffic or other use by warning signs or barricades, as approved by the Engineer. Surfaces gullied or otherwise damaged following seeding shall be repaired by regrading and reseeding as directed. The Contractor shall mow, water as directed, and otherwise maintain seeded areas in a satisfactory condition until final inspection and acceptance of the work.

When either the dry or wet application method outlined above is used for work performed out of season, the Contractor will be required to establish a good stand of grass of uniform color and density to the satisfaction of the Engineer. If at the time when the contract has been otherwise completed, it is not possible to make an adequate determination of the color, density, and uniformity of such stand of grass, payment for the unaccepted portions of the areas seeded out of season will be withheld until such time as these requirements have been met.

MULCHING

Mulch shall be applied to all seeded areas immediately after seeding. During the time periods when seeding is not permitted, mulch shall be applied immediately after grading. Mulch shall be applied as per ITEM 905.

TEMPORARY SEEDING

Lime:	100 pounds of dolomitic limestone per 1,000 square feet.
Fertilizer:	15 pounds of 10-10-10 per 1,000 square feet.
Seed:	Per ITEM 903.
Mulch:	Mulch shall be applied as per ITEM 905.

FILL

No fills may be placed on frozen ground. All fill to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8 inches. All fill in roadways and parking areas is to be classified Type 2 as per Anne Arundel County Code – Article 16, Sections 2-307, and compacted to 90% density; compactions to be determined by ASTM D-1557-66T (Modified Proctor). Any fill within the building area is to be compacted to a minimum of 95% density as determined by methods previously mentioned. Fills for pond embankments shall be compacted as per MD-378 Construction Specifications. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.

SODDING

Installation of sod should follow permanent seeding dates. Seedbed preparation for sod shall be as noted above. Lime and fertilizer per permanent seeding specifications and lightly irrigate soil

prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Joins are to be staggered between rows. Water and roll or tamp sod to insure positive root contact with the soil. All slopes steeper than 3:1, as shown, are to be permanently sodded or protected with an approved erosion control netting. Additional watering for establishment may be required. Sod is not to be installed on frozen ground. Sod shall not be transplanted when moisture content (dry or wet) and/or extreme temperature may adversely affect its survival. In the absence of adequate rainfall, irrigation should be performed to ensure establishment of sod. Install sod per ITEM 904.

MINING OPERATIONS

Sediment control plans for mining operations must include the following seeding dates and mixtures:

For seeding dates of: February 1 through April 30 and August 15 through October 31, use seed mixture of tall fescue at the rate of 2 pounds per 1,000 square feet and red top at the minimum rate of 0.5 pounds per 1,000 square feet.

NOTE: Use of this information does not preclude meeting all of the requirements of the current Maryland Standards and Specifications for Soil Erosion and Sediment Control.

PROFESSIONAL CERTIFICATION		SEAL	REVISION				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				
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. 21875 EXPIRATION DATE: 02-12-2028			NO.	DESCRIPTION	BY	DATE	DATE	DATE	DATE	SCALE: AS INDICATED	100% CONSTRUCTION DOCUMENTS
			60% DESIGN DEVELOPMENT	JLA/PVM	09/06/2023	APPROVED	APPROVED	APPROVED	APPROVED	DRAWN BY: JA/GP	
			90% CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023	APPROVED	APPROVED	APPROVED	CHECKED BY: PVM		
			100% CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024	CHIEF ENGINEER	APPROVED	APPROVED	SHEET NO: 018		
						ASSISTANT CHIEF ENGINEER	APPROVED	APPROVED	PROJECT NO. P570003		
						CHIEF, RIGHT OF WAY SERVICES			PROPOSAL NO.: P570003		
										NAAC SPLASH PAD	C018
											EROSION AND SEDIMENT CONTROL NOTES CIP# P570000

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL:

CONSTRUCTION SPECIFICATIONS

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (43 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION
 B.2

DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBOL:

CONSTRUCTION SPECIFICATIONS

- INSTALL 2 3/4 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 3/4 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS. SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION
 E.7

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL:

CONSTRUCTION SPECIFICATIONS

- INSTALL 2 3/4 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 3/4 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS. SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION
 E.24

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL:

CONSTRUCTION SPECIFICATIONS

- USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
- FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAAL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2x4 FRAME AS SHOWN. STRETCH 3/8 INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.
- FOR TYPE B, USE 2 3/4 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE, 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.
- BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
- STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION
 E.25

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE	2011
---	---	------	---	------	---	------	---	------	---	------	---	------

DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL:

MAXIMUM DRAINAGE AREA = 1 ACRE

CONSTRUCTION SPECIFICATIONS

- USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
- PLACE CLEAN 3/4 TO 1 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
- STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT NATURAL RESOURCES CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION
 E.26

TEMPORARY SAFETY FENCE FOR SEDIMENT TRAPPING DEVICES

NOT TO SCALE

Baltimore County Department of Environmental Protection and Resource Management

PROFESSIONAL CERTIFICATION		REVISION			
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. 21875 EXPIRATION DATE: 02-12-2026		NO.	DESCRIPTION	BY	DATE
		60%	DESIGN DEVELOPMENT	JLA/PVM	09/06/2023
		90%	CONSTRUCTION DOCUMENTS	JLA/PVM	12/15/2023
		100%	CONSTRUCTION DOCUMENTS	JLA/PVM	07/01/2024
DRAWN BY: JLA DWG BY: GP CHECK BY: JLA/PVM	DATE: 07/01/24				

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

100% CONSTRUCTION DOCUMENTS

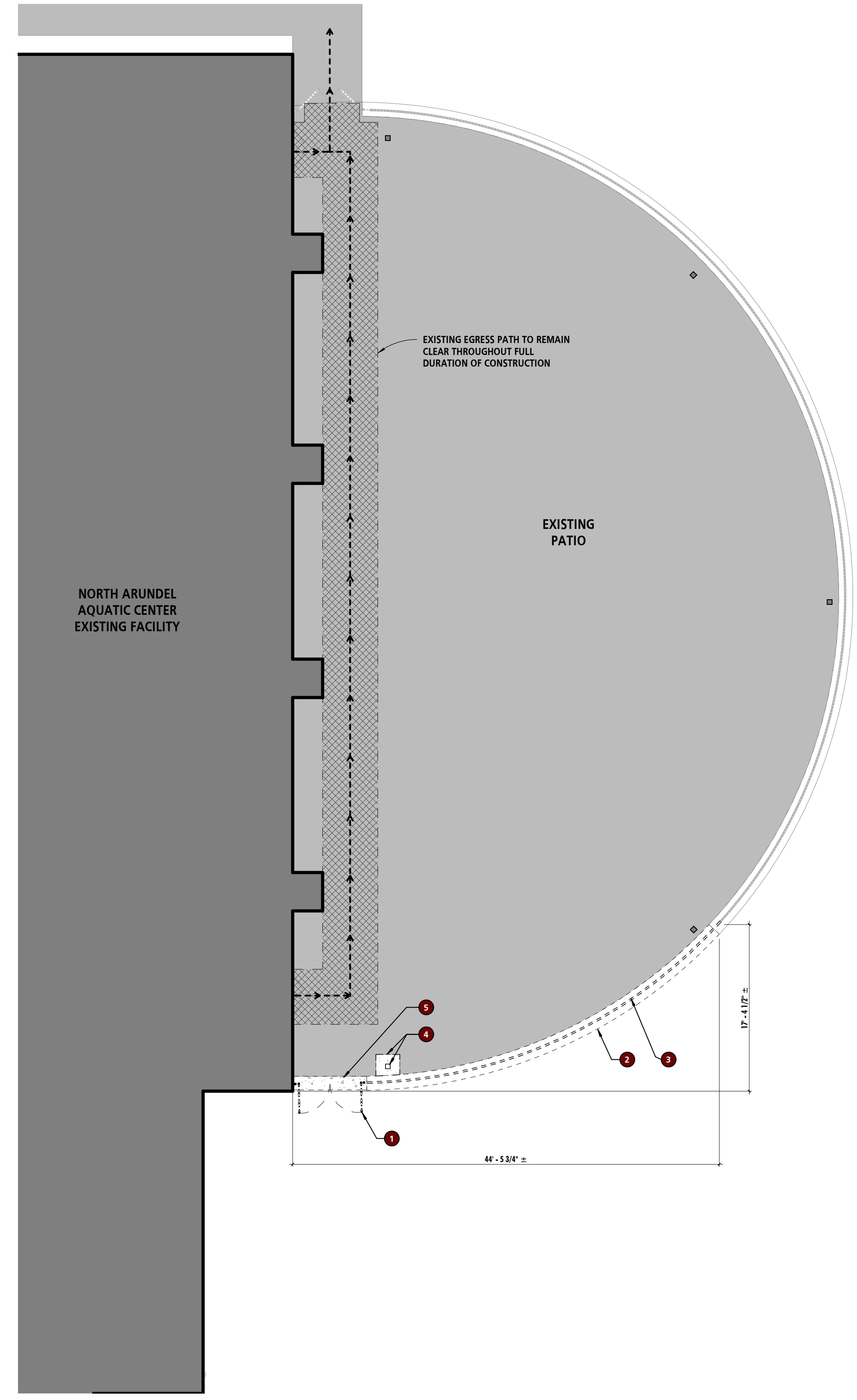
NAAC SPLASH PAD

C019

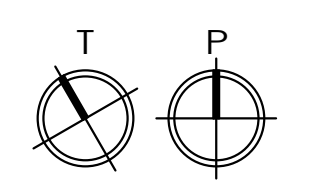
EROSION AND SEDIMENT CONTROL DETAILS CIPP P570000

PROPOSAL NO.: P570003

ARCHITECT PROJECT NO. 45-111
DWG. FILENAME:
7/24/2024 10:40:28 AM



1 ARCHITECTURAL SITE DEMOLITION PLAN
1/8" = 1'-0"



PLAN LEGEND	
	EXISTING WALL TO REMAIN
	EXISTING CONSTRUCTION TO BE DEMOLISHED (SEE DEMO PLANS)
	NEW WALL/PARTITION

GENERAL DEMOLITION NOTES	
1	ALL BIDDERS SHALL MAKE THEMSELVES FAMILIAR WITH THE EXISTING PROJECT CONDITIONS PRIOR TO SUBMITTING A BID. THIS IS INCLUSIVE OF CONDITIONS ABOVE ACCESSIBLE CEILING TO DETERMINE WORKING CONDITIONS.
2	PRIOR TO THE PERFORMANCE OF ANY DEMOLITION WORK THE CONTRACTOR SHALL MAKE THEMSELVES FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, PROVIDING, INSTALLING, AND MAINTAINING ALL TEMPORARY SUPPORT AND BRACING REQUIRED TO COMPLETE THE WORK.
3	THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, DIMENSIONS, CONSTRUCTION ASSEMBLIES AND THE LIKE PRIOR TO FABRICATING, INSTALLING, OR PURCHASING ANY NEW WORK. DETAILS INDICATING EXISTING MATERIALS OF CONDITIONS MAY BE SHOWN WITHIN THE DOCUMENTS BUT ARE NOT INTENDED TO FULLY DEFINE EXISTING CONDITIONS.
4	DEMOLITION WORK MAY BE INDICATED THROUGHOUT THE CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DOCUMENTS FOR ADDITIONAL DEMOLITION WORK.
5	IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN SAFE WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS AS REQUIRED TO PROTECT PERSONS AND PROPERTY AND OTHERWISE MAINTAIN SAFE WORKING CONDITIONS.
6	THE CONTRACTOR SHALL MAINTAIN A CLEAR, CLEAN, USEABLE CONSTRUCTION SITE THROUGH DAILY CLEANUP OF WORK AREAS.
7	THE OWNER SHALL BE MAINTAINING OCCUPANCY OF THE SITE AND PORTIONS OF THE BUILDING DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE OWNER'S PERSONNEL THROUGHOUT THE CONSTRUCTION TO MINIMIZE, TO THE GREATEST EXTENT POSSIBLE, ANY DISRUPTIONS IN THE OWNER'S WORKING PROCEDURES. THE PHASING OF THE PROJECT SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL NOT BE REASON FOR ADDITIONAL FEES. ADDITIONALLY, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER A MINIMUM OF 72 HOURS PRIOR TO ANY DISRUPTION OF SERVICES/UTILITIES REQUIRED TO COMPLETE THE WORK.
8	THE CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND DEBRIS BARRIERS BETWEEN AREAS TO REMAIN IN OPERATION AND WORK AREAS. BARRIERS SHALL BE PROVIDED AT, BUT NOT LIMITED TO HVAC SUPPLY AND RETURN OPENINGS, TRANSFER VENTS, EXHAUST VENTS, AND OTHER SUCH OPENINGS. BARRIERS SHALL BE A MINIMUM OF 10 MIL PLASTIC SHEETING SECURED AND SEALED TO EXISTING CONSTRUCTION AND/OR TEMPORARY FRAMING. PLASTIC SHEETING SHALL BE OVERLAPPED A MINIMUM OF 12" AND TAPED BOTH SIDES.
9	THE CONTRACTOR SHALL PROVIDE PROTECTION FROM THE WEATHER FOR PORTIONS OF EXISTING CONSTRUCTION THAT ARE TO REMAIN OCCUPIED OR USEABLE BY THE OWNER OR TO AREAS THAT CONTAIN ITEMS TO REMAIN THAT WILL BE DAMAGED BY WEATHER.
10	ALL ITEMS INDICATED TO BE REMOVED AND/OR DEMOLISHED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL REVIEW WITH THE OWNER IF ANY ITEMS TO BE REMOVED AND/OR DEMOLISHED ARE TO BE RETAINED BY THE OWNER PRIOR TO ANY DEMOLITION WORK BEING PERFORMED. ALL ITEMS TO BE RETAINED BY THE OWNER SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE OWNER IN THE CONDITION FOUND PRIOR TO ANY WORK BEING PERFORMED. ALL OTHER ITEMS INDICATED TO BE REMOVED AND/OR DEMOLISHED SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR IN A LAWFUL MANNER.
11	THE CONTRACTOR SHALL REPLACE OR REPAIR ANY ITEMS DAMAGED BY THE CONTRACTOR OR ANY OF ITS AGENTS TO A MINIMUM CONDITION MATCHING THE ITEMS' CONDITION AT THE START OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
12	THE CONTRACTOR SHALL REPAIR ANY MATERIALS, SYSTEMS, OR FINISHES WITHIN OR OUTSIDE OF THE GENERAL WORK AREA THAT ARE REQUIRED TO BE DISTURBED TO COMPLETE THE ENTIRE SCOPE OF WORK ASSOCIATED WITH BUILDING SYSTEM CONNECTIVITY.
13	THE CONTRACTOR SHALL PREPARE ALL SURFACES AFFECTED BY DEMOLITION OPERATIONS TO RECEIVE NEW WORK AS BOTH INDICATED WITHIN THESE DRAWINGS AND SPECIFICATIONS/PROJECT MANUAL AND AS RECOMMENDED BY THE MANUFACTURERS' WRITTEN INSTRUCTIONS FOR THE INSTALLATION OF EACH RESPECTIVE PRODUCT.
14	THE CONTRACTOR SHALL REMOVE EXISTING FINISHES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS AND ENSURE THAT SUBSTRATE CONDITIONS ARE SMOOTH AND IN SATISFACTORY CONDITION TO RECEIVE NEW WORK.
15	THE CONTRACTOR SHALL REMOVE ALL ANCHORS, FASTENERS, WALL HANGERS, AND MISCELLANEOUS EXTRUSIONS AND APPURTENANCES OF ITEMS BOTH NO LONGER INSTALLED AND ITEMS REMOVED THROUGH DEMOLITION PROCEDURES.
16	THE CONTRACTOR SHALL COORDINATE ANY SAW CUTS WITHIN THE EXISTING SLABS WITHIN THE NEW WORK AREA AS REQUIRED TO INSTALL NEW ELECTRICAL CONDUIT, PLUMBING, AND/OR STRUCTURAL ELEMENTS. CONTRACTOR SHALL COORDINATE SIZE, LOCATION, AND DEPTH WITH THE FULL SET OF DOCUMENTS. REPLACE AND REPAIR CONCRETE AND FLASH AS REQUIRED TO CREATE A FLUSH SUBSTRATE AFTER COMPLETION OF WORK TASKS.

REFERENCED NOTES - DEMOLITION	
NO.	NOTE
1	EXISTING GATE TO BE DEMOLISHED IN ITS ENTIRETY.
2	PORTION OF EXISTING LOW WALL TO BE DEMOLISHED.
3	PORTION OF EXISTING FENCE TO BE DEMOLISHED.
4	EXISTING LIGHT POLE AND ASSOCIATED SLAB TO BE DEMOLISHED IN ITS ENTIRETY.
5	DEMOLISH PORTION OF CONCRETE SLAB TO ALLOW FOR SMOOTH TRANSITION AT NEW SLAB. SEE NEW CONSTRUCTION FOR DETAILS.

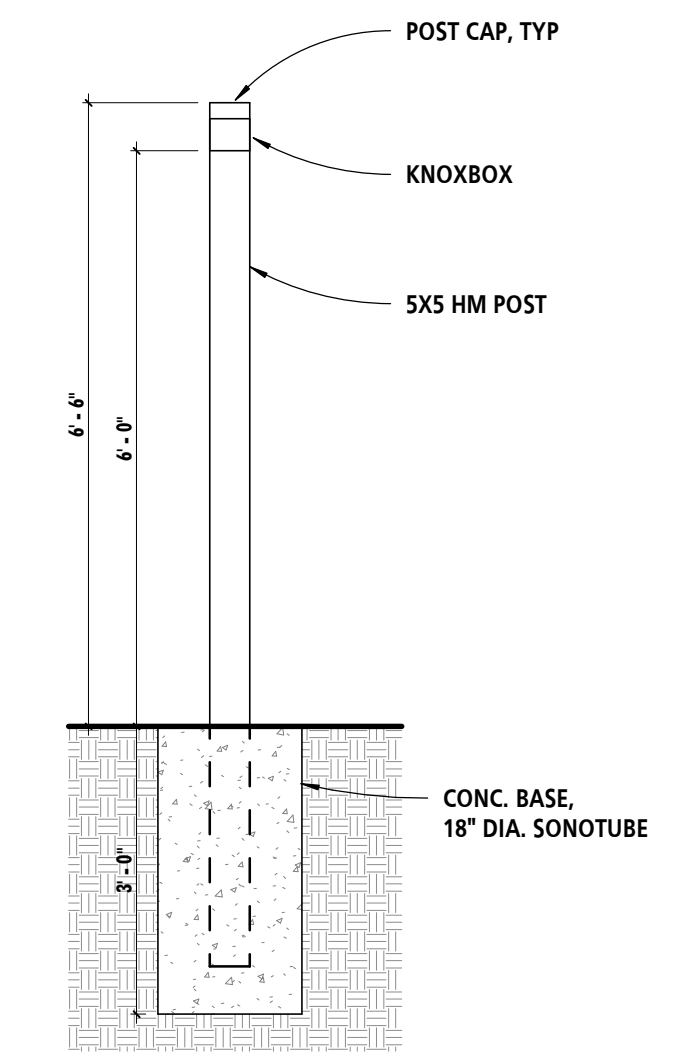
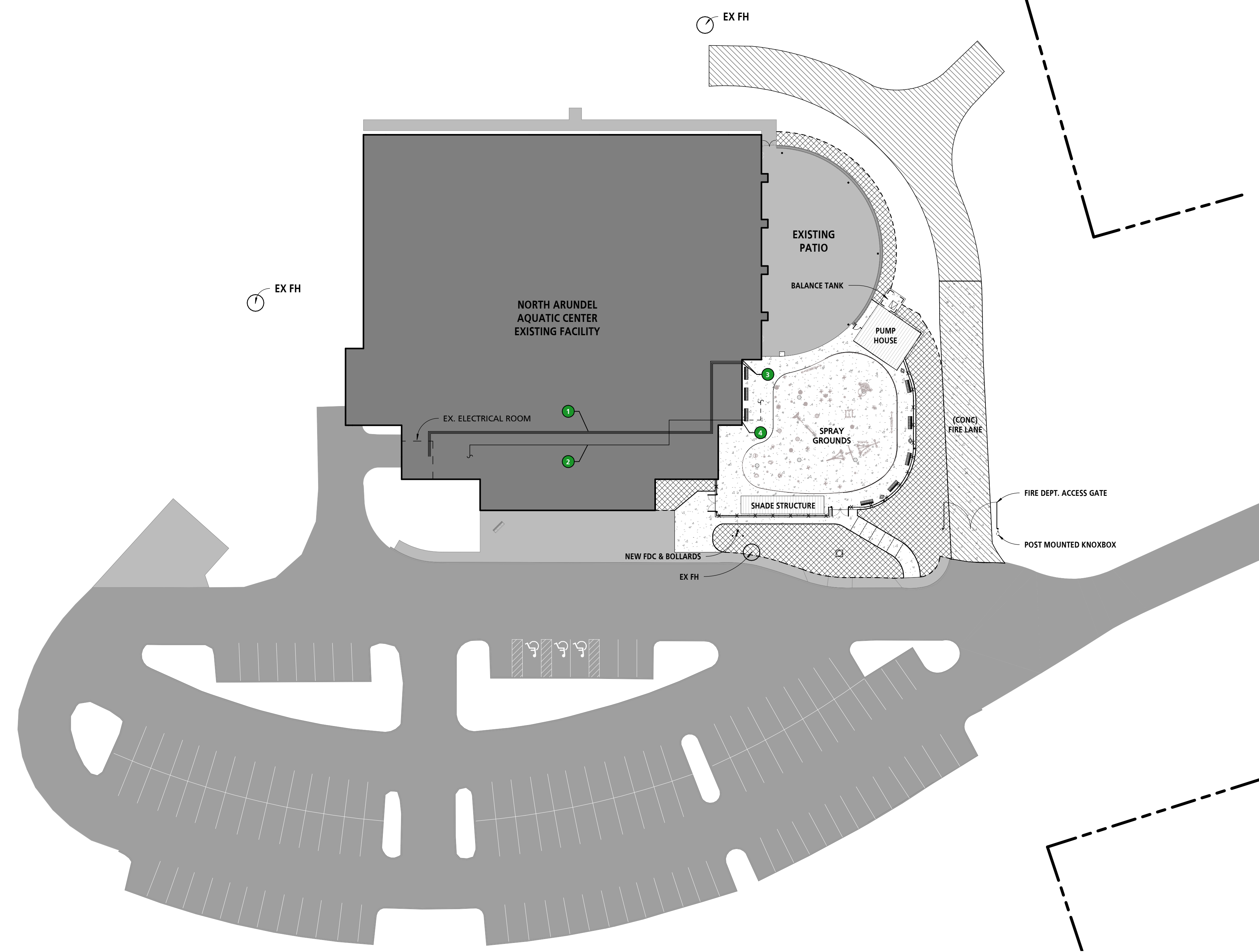
PROFESSIONAL CERTIFICATION		SEAL	REVISION				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.			NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE:
LICENSE NO. 15505	EXPIRATION DATE: 08-18-2024		60% DESIGN DEVELOPMENT			09/06/2023					DRAWN BY:
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT	DGN BY: _____		90% CONSTRUCTION DOCUMENTS			12/15/2023					CHECKED BY:
MANN'S WOODWARD STUDIOS 6000 SANDPIPER CIR, SUITE 11 NOTTINGHAM, MARYLAND 21296 (P) 410-442-1000	DWN BY: _____	100% CONSTRUCTION DOCUMENTS			07/01/2024	CHIEF ENGINEER				PROJECT MANAGER	
	CHRD BY: _____					APPROVED	DATE	APPROVED	DATE	SHEET NO.:	
	DATE: _____					ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES		PROPOSAL NO.: P570000	
										PROPOSAL NO.: P570003	

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.

ARCHIT PROJECT NO. 24-111

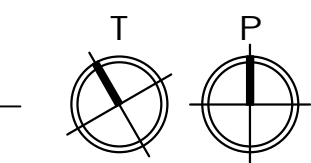
REFERENCED NOTES - SITE DIAGRAM	
NO.	NOTE
1	PUMP HOUSE ELECTRICAL TO ROUT THROUGH EXISTING BUILDING CEILING. REMOVE TILE / GRID AS REQUIRED TO INSTALL NEW ELECTRICAL. REINSTALL CEILING GRID / TILE UPON COMPLETION OF WORK.
2	PUMP HOUSE WATER LINE TO ROUT THROUGH EXISTING BUILDING CEILING. REMOVE TILE / GRID AS REQUIRED TO INSTALL NEW PLUMBING. REINSTALL CEILING GRID / TILE UPON COMPLETION OF WORK.
3	EXTERIOR GRADE / WEATHERPROOF PULLBOX & WATERPROOF CONDUIT SLEEVE, TYP.
4	PLUMBING / FIRE PROTECTION TO COME DOWN INSIDE THE BUILDING THROUGH SLAB AND CONTINUE AS SHOWN (SEE CIVIL). DEMOLISH CEILING, PARTITIONS / CHASE, & SLAB AS REQUIRED FOR INSTALLATION. PATCH AND REPAIR TO MATCH EXISTING UPON COMPLETION.

LEGEND	
	NEW CONCRETE PAVING
	EXST ASPHALT PAVING
	EXST CONCRETE PAVING
	LANDSCAPING
	FIRE LANE
	EXST STRUCTURES
	NEW ORNAMENTAL FENCE



1 ARCHITECTURAL SITE DIAGRAM
1" = 30'-0"

2 DETAIL- KNOXBOX POST @ ACCESS GATE
1/2" = 1'-0"



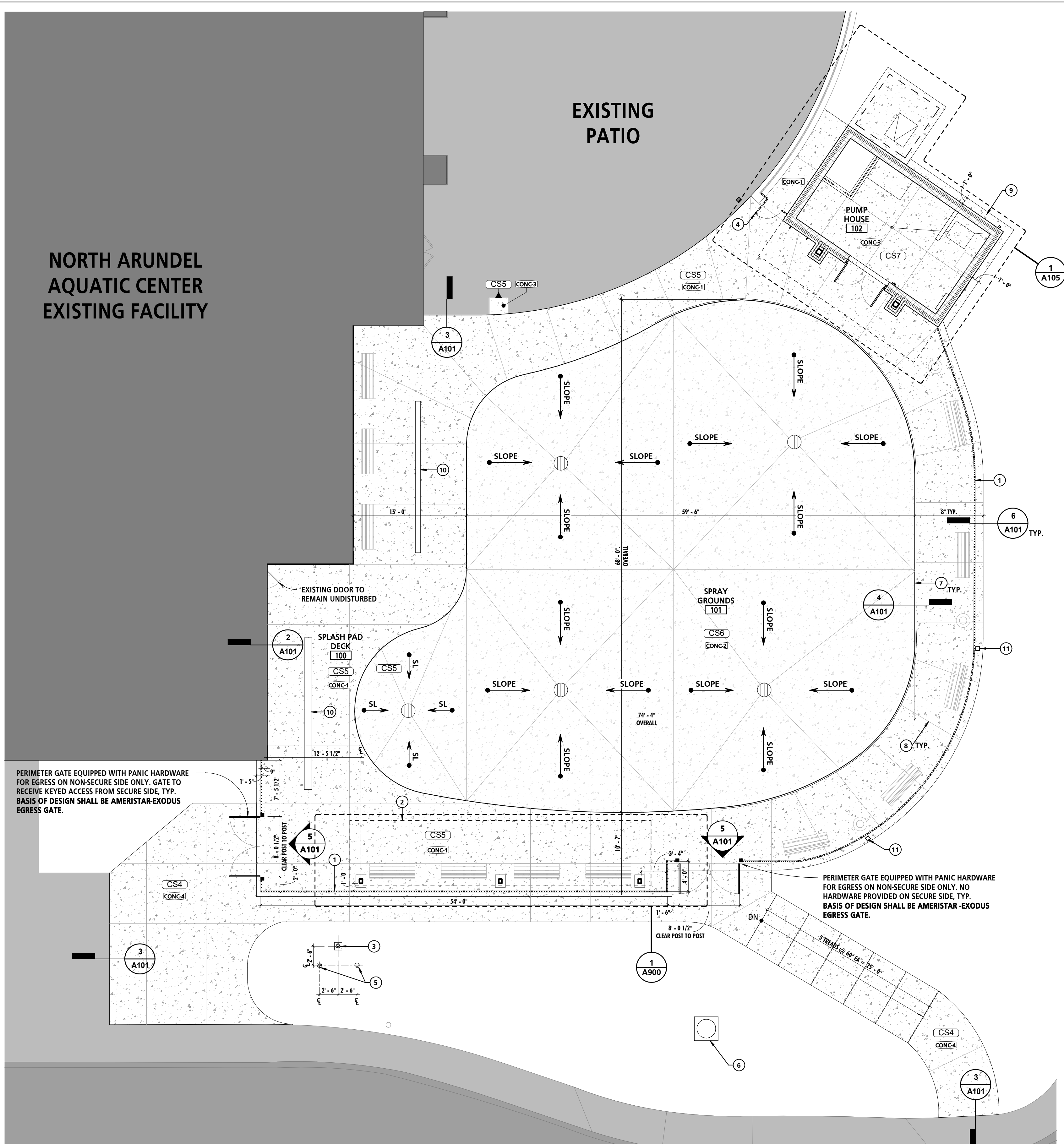
PROFESSIONAL CERTIFICATION		REVISION		ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS					
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024		NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	SCALE	
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS 6000 SANDPIPER CIRCLE, SUITE 111 NOTTINGHAM, MARYLAND 21155 (410) 441-1000		60%	DESIGN DEVELOPMENT		09/06/2023	APPROVED	DATE	ARCHITECTURAL	
DGN BY: _____	SEAL	90%	CONSTRUCTION DOCUMENTS		12/15/2023	PROJECT MANAGER	DATE	N. ARUNDEL SWM CT-SPLASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS	
DWN BY: _____		100%	CONSTRUCTION DOCUMENTS		07/01/2024	CHIEF ENGINEER	DATE		A100 ARCHITECTURAL SITE DIAGRAM
CHD BY: _____	DATE: _____					APPROVED	DATE		
						ASSISTANT CHIEF ENGINEER	DATE		
						CHIEF, RIGHT OF WAY SERVICES	DATE		
							DATE		
							PROPOSAL NO.: P570003		

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.

DWG. FILENAME: 7/24/2024 10:40:13 AM

NORTH ARUNDEL AQUATIC CENTER EXISTING FACILITY

EXISTING PATIO



LEGEND

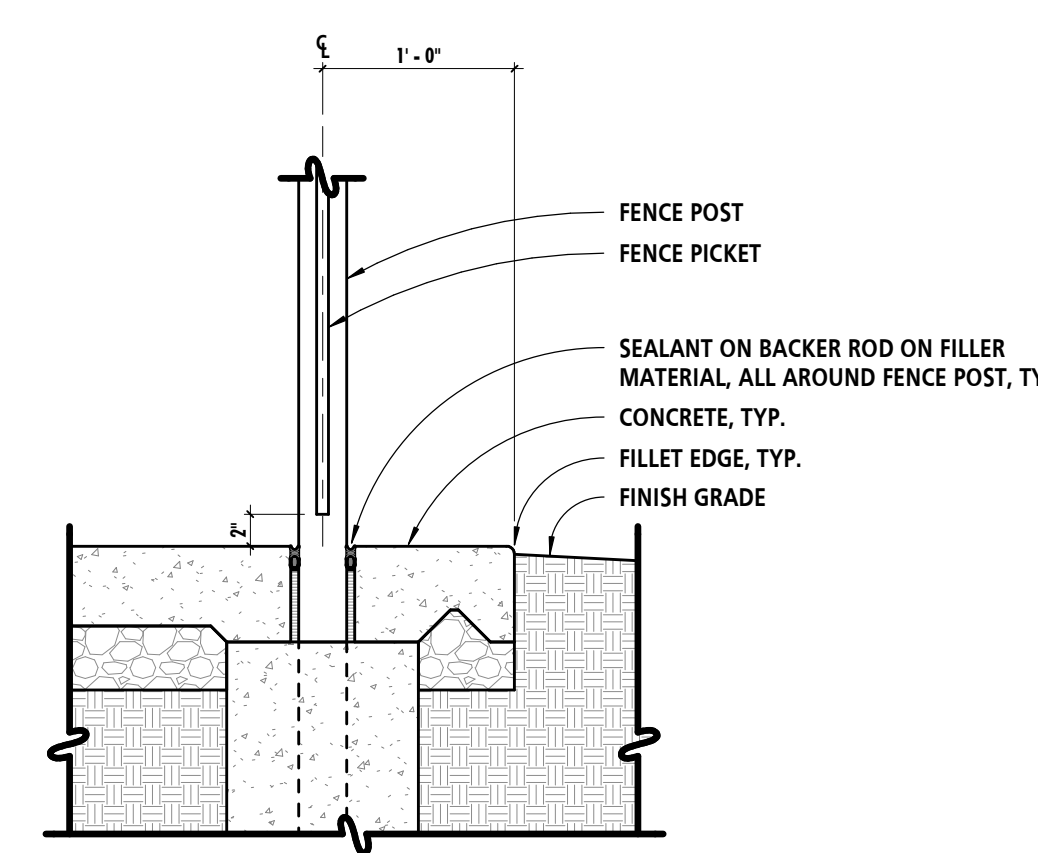
	NEW CONCRETE PAVING
	EXIST CONCRETE PAVING
	EXIST ASPHALT PAVING
	EXIST STRUCTURES

REFERENCED NOTES - NEW CONSTRUCTION

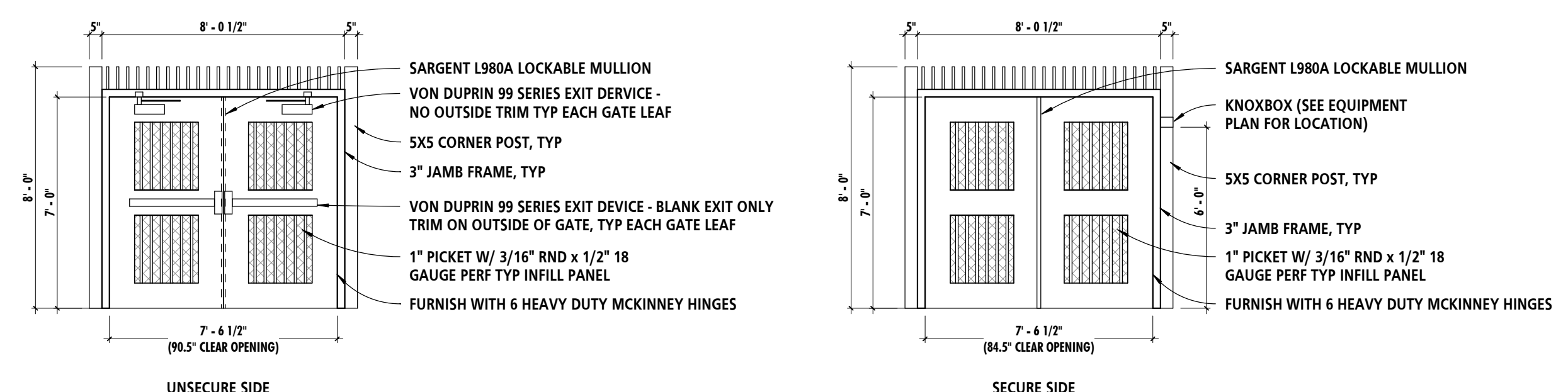
0	
1	8'-0" HIGH, PREFINISHED ALUMINUM FENCING. BASIS OF DESIGN SHALL BE AMERISTAR - ECHELON II MAJESTIC 3-RAIL (4'-0" WIDE SECTIONS, TYP.) POST & POST FOOTING SHALL BE DELEGATED DESIGN, TYP.
2	CANTILEVERED SHADE STRUCTURE - 40' LONG X 8' DEEP X 8' HIGH. BASIS OF DESIGN SHALL BE COVERWORX - CL-0840-SW
3	PEDESTAL MOUNTED FIRE DEPARTMENT CONNECTION (FDC)
4	8'-0" HIGH, PREFINISHED ALUMINUM GATE. BASIS OF DESIGN SHALL BE AMERISTAR - ECHELON II MAJESTIC 3-RAIL SGL GATE.
5	PIPE BOLLARD
6	PROP YARD INLET. SEE CIVIL DRAWINGS.
7	CONCRETE EXPANSION JOINT
8	SAW CUT CONCRETE CONTROL JOINT
9	1'-0" WIDE MOW STRIP
10	TRENCH DRAIN. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
11	LIGHT POLL, SEE ELEC. DRAWINGS FOR DETAILS.

SCHEDULE - MATERIAL FINISH KEY

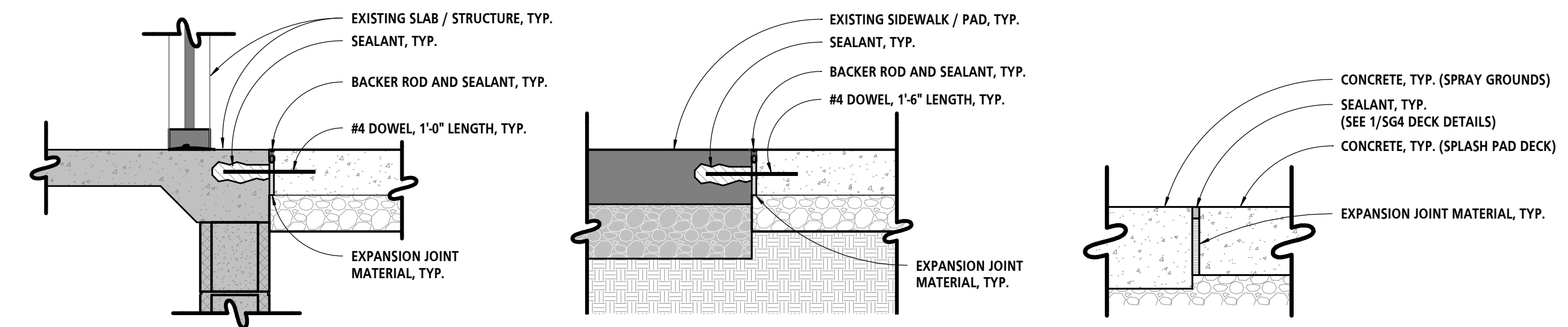
FINISH MARK	DESCRIPTION
CONC-1	CONCRETE W/ BROOM FINISH AND INTEGRAL COLORING PIGMENT - COLOR 1
CONC-2	CONCRETE W/ BROOM FINISH AND INTEGRAL COLORING PIGMENT - COLOR 2
CONC-3	SEALED CONCRETE
CONC-4	CONCRETE W/ BROOM FINISH
HPC-1	HIGH PERFORMANCE COATING (COLOR: TBD)



6 SLAB EDGE DETAIL AT PERIMETER FENCING
1" = 1'-0"



5 PERIMETER GATE ELEVATION & DETAILS
1/4" = 1'-0"

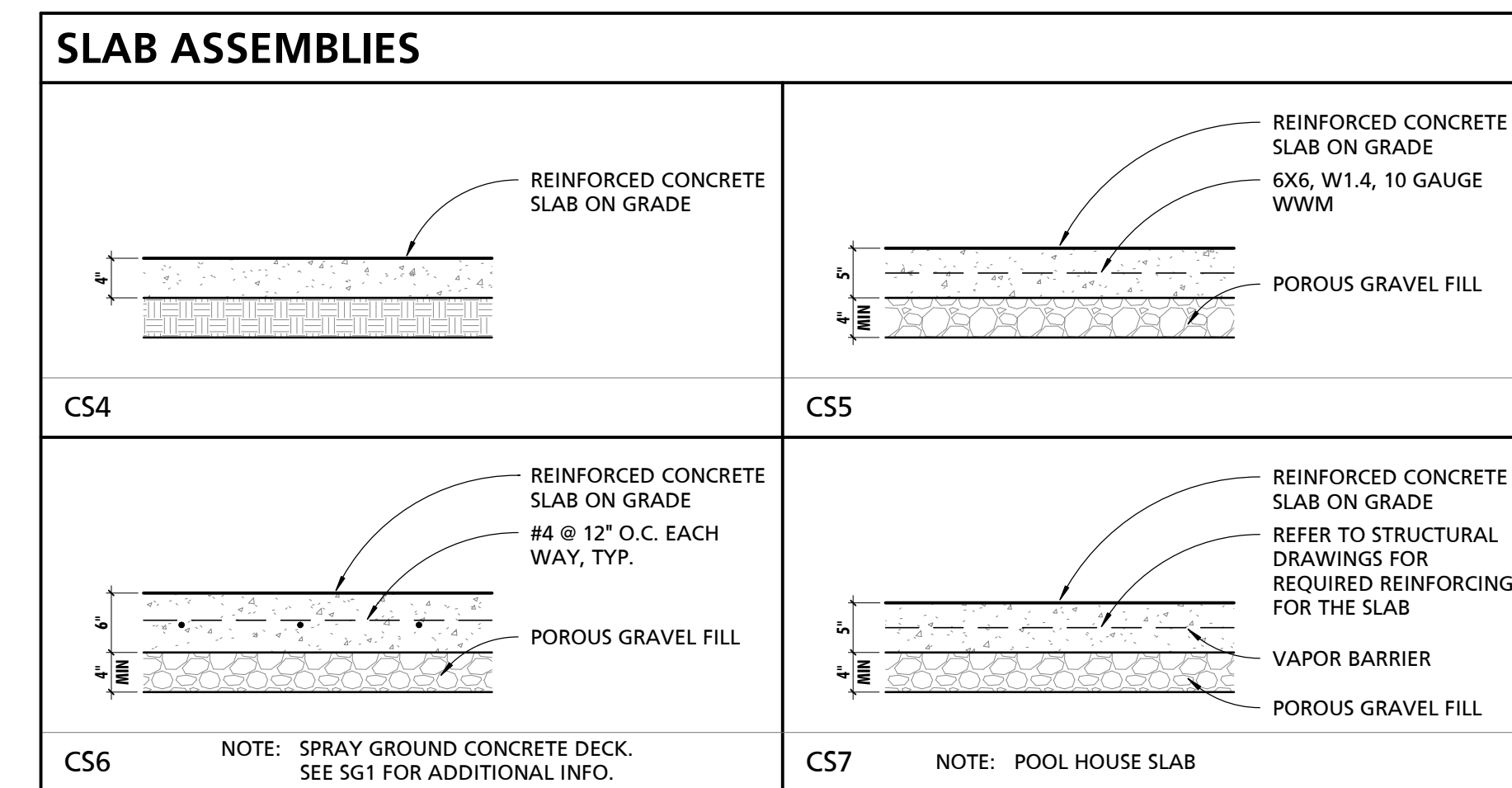
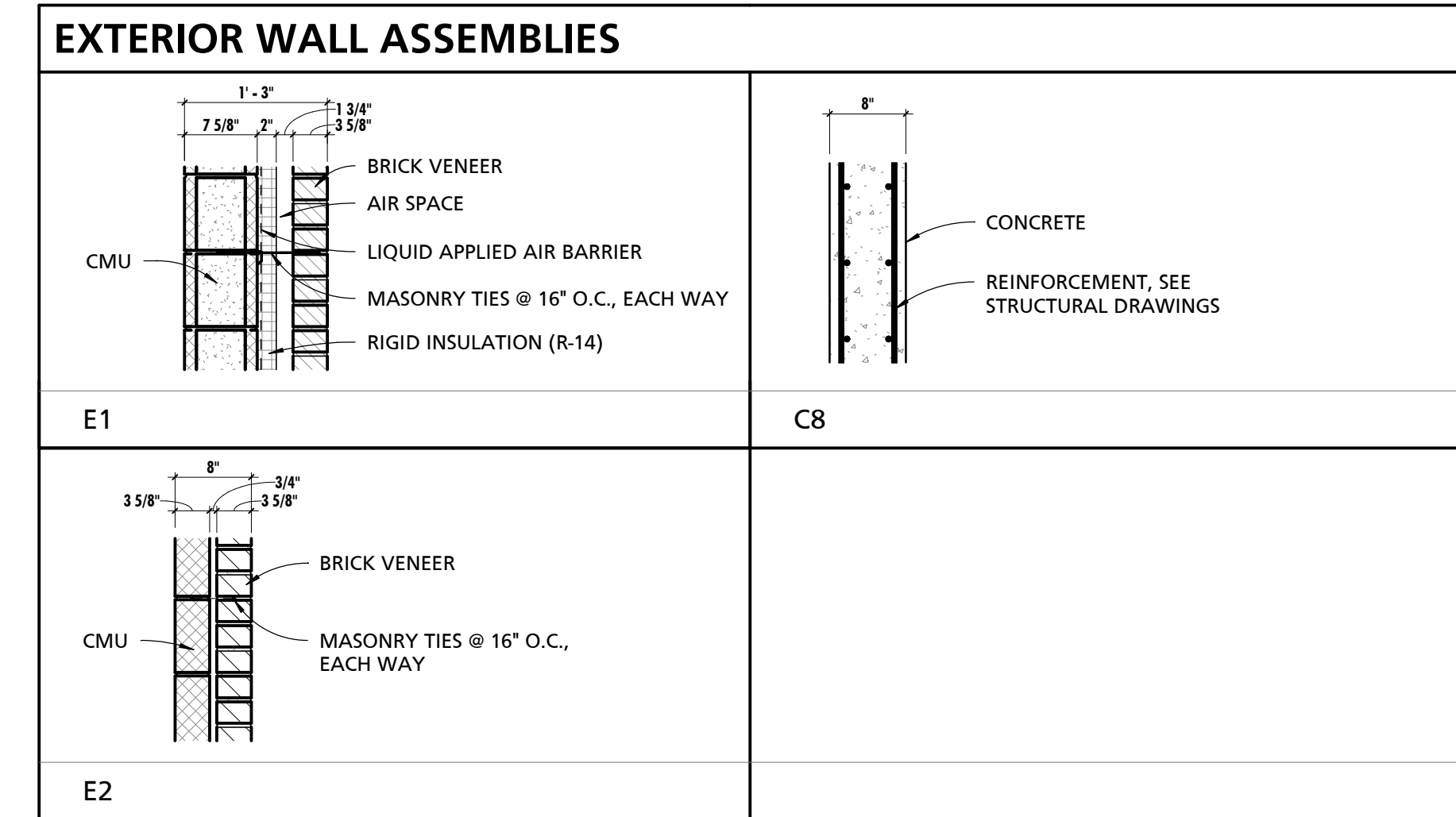
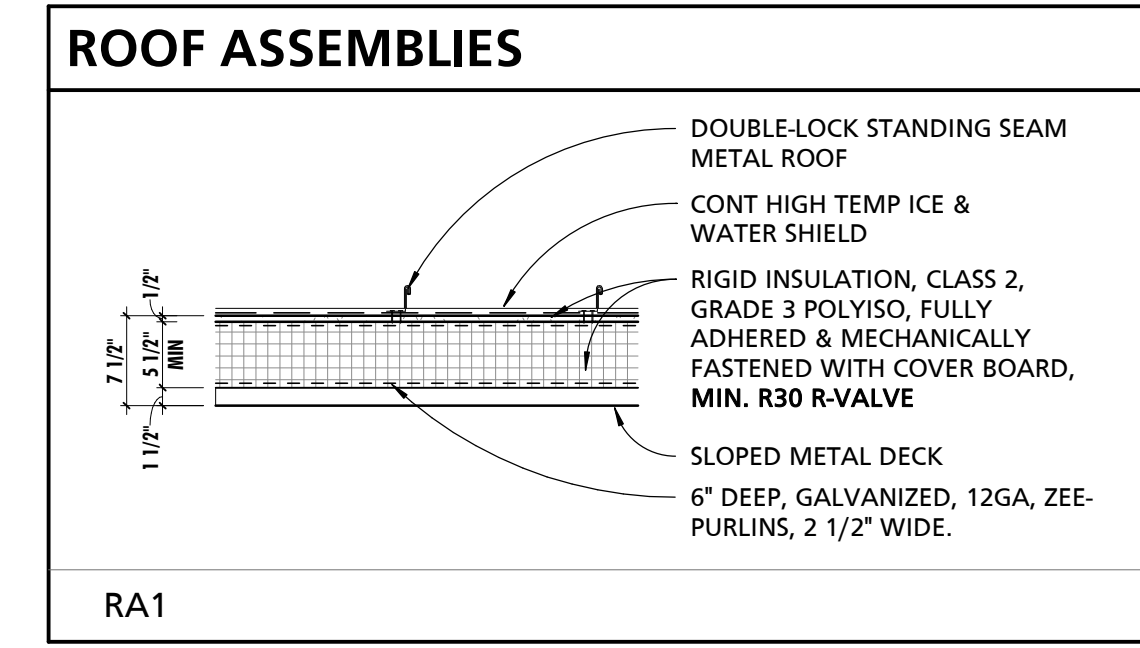


2 SLAB EDGE DETAIL 1" = 1'-0"
3 SLAB EDGE DETAIL 1" = 1'-0"
4 EXPANSION JOINT DETAIL 1 1/2" = 1'-0"

1 REFERENCE PLAN
1/8" = 1'-0"

<p>PROFESSIONAL CERTIFICATION</p> <p>I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024</p> <p>ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS 6000 SANDPIPER CIRCLE, SUITE II NOTTINGHAM, MARYLAND 21095 (P) 410-341-1000</p> <p>DGN BY: _____ DWN BY: _____ CHRD BY: _____</p>		<p>REVISION</p> <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> <tr> <td>60%</td> <td>DESIGN DEVELOPMENT</td> <td></td> <td>09/06/2023</td> </tr> <tr> <td>90%</td> <td>CONSTRUCTION DOCUMENTS</td> <td></td> <td>12/15/2023</td> </tr> <tr> <td>100%</td> <td>CONSTRUCTION DOCUMENTS</td> <td></td> <td>07/01/2024</td> </tr> </table>		NO.	DESCRIPTION	BY	DATE	60%	DESIGN DEVELOPMENT		09/06/2023	90%	CONSTRUCTION DOCUMENTS		12/15/2023	100%	CONSTRUCTION DOCUMENTS		07/01/2024	<p>APPROVED</p> <p>DATE: _____</p> <p>APPROVED: _____</p> <p>DATE: _____</p> <p>APPROVED: _____</p> <p>DATE: _____</p> <p>APPROVED: _____</p> <p>DATE: _____</p> <p>APPROVED: _____</p> <p>DATE: _____</p>		<p>ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>ARCHITECTURAL</p> <p>N. ARUNDEL SWM CT-SPASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS</p> <p>A101 REFERENCE PLAN</p>	
NO.	DESCRIPTION	BY	DATE																				
60%	DESIGN DEVELOPMENT		09/06/2023																				
90%	CONSTRUCTION DOCUMENTS		12/15/2023																				
100%	CONSTRUCTION DOCUMENTS		07/01/2024																				

ARCH PROJECT NO. 45-111
DWG. FILENAME: 7/24/2024 10:40:15 AM

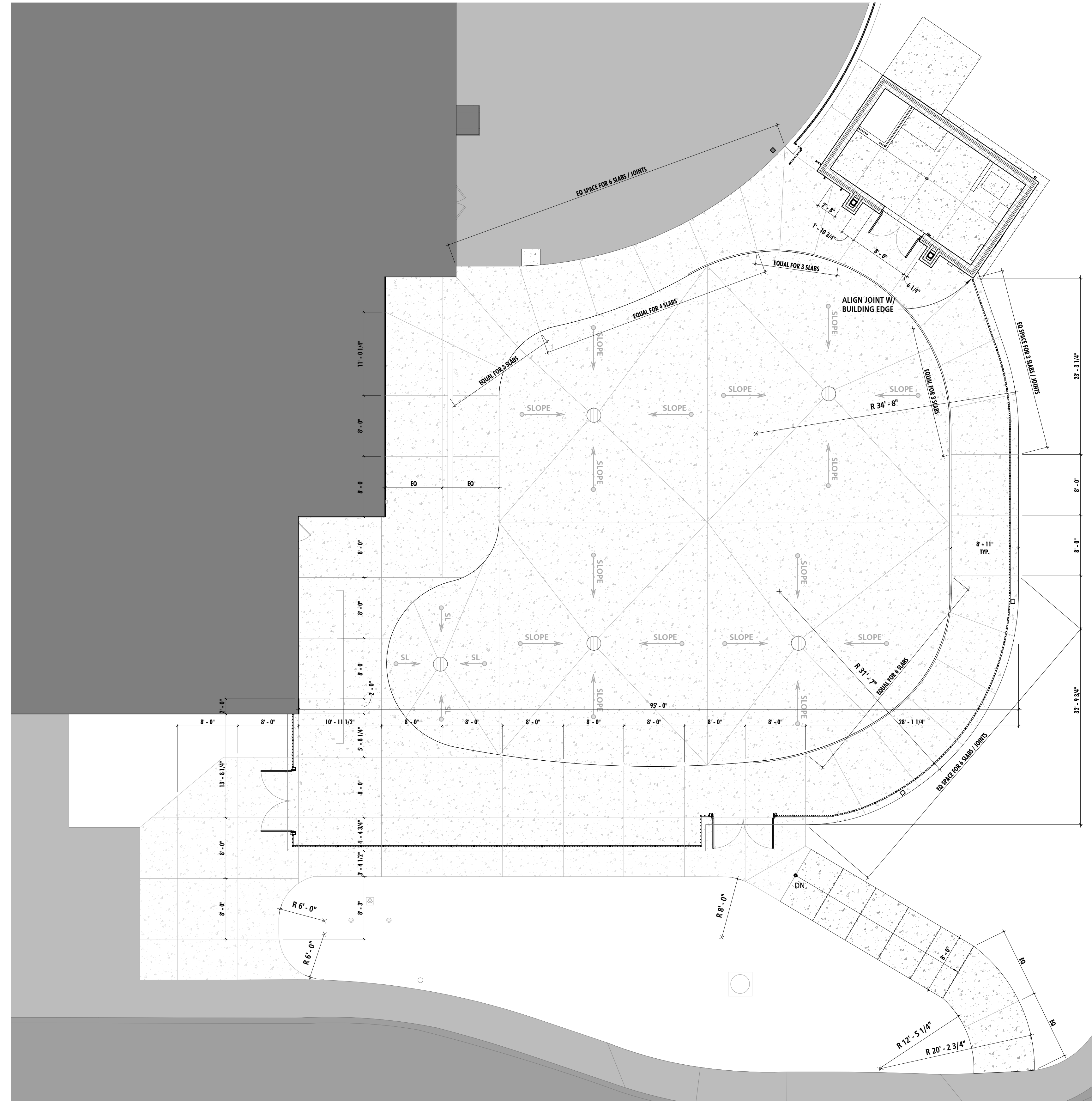


PROFESSIONAL CERTIFICATION		SEAL
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.		
LICENSE NO. 15505	EXPIRATION DATE: 08-18-2024	
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT	DGN BY: _____	
MANN'S WOODWARD STUDIOS 6000 SANDPIPER CTR, SUITE 11 NOTTINGHAM, MARYLAND 21296 (P) 410-440-1400	DWN BY: _____ CHRD BY: _____	

REVISION			
NO.	DESCRIPTION	BY	DATE
	60% DESIGN DEVELOPMENT		09/06/2023
	90% CONSTRUCTION DOCUMENTS		12/15/2023
	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

ARCHITECTURAL	
N. ARUNDEL SWM CT-SPLASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS	
A102	ASSEMBLY TYPES & DETAILS



1 SPLASH PAD - DIMENSION PLAN
1/8" = 1'-0"

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024

ARCHITECT: DAVID WOODWARD, AIA
PRINCIPAL ARCHITECT
MANN'S WOODWARD STUDIOS
6000 SANDPIPER CIRCLE, SUITE II
NOTTINGHAM, MARYLAND 21296
(410) 444-1000

DGN BY: _____
DWN BY: _____
CHD BY: _____

SEAL

DATE: _____

REVISION			
NO.	DESCRIPTION	BY	DATE
	60% DESIGN DEVELOPMENT		09/06/2023
	90% CONSTRUCTION DOCUMENTS		12/15/2023
	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

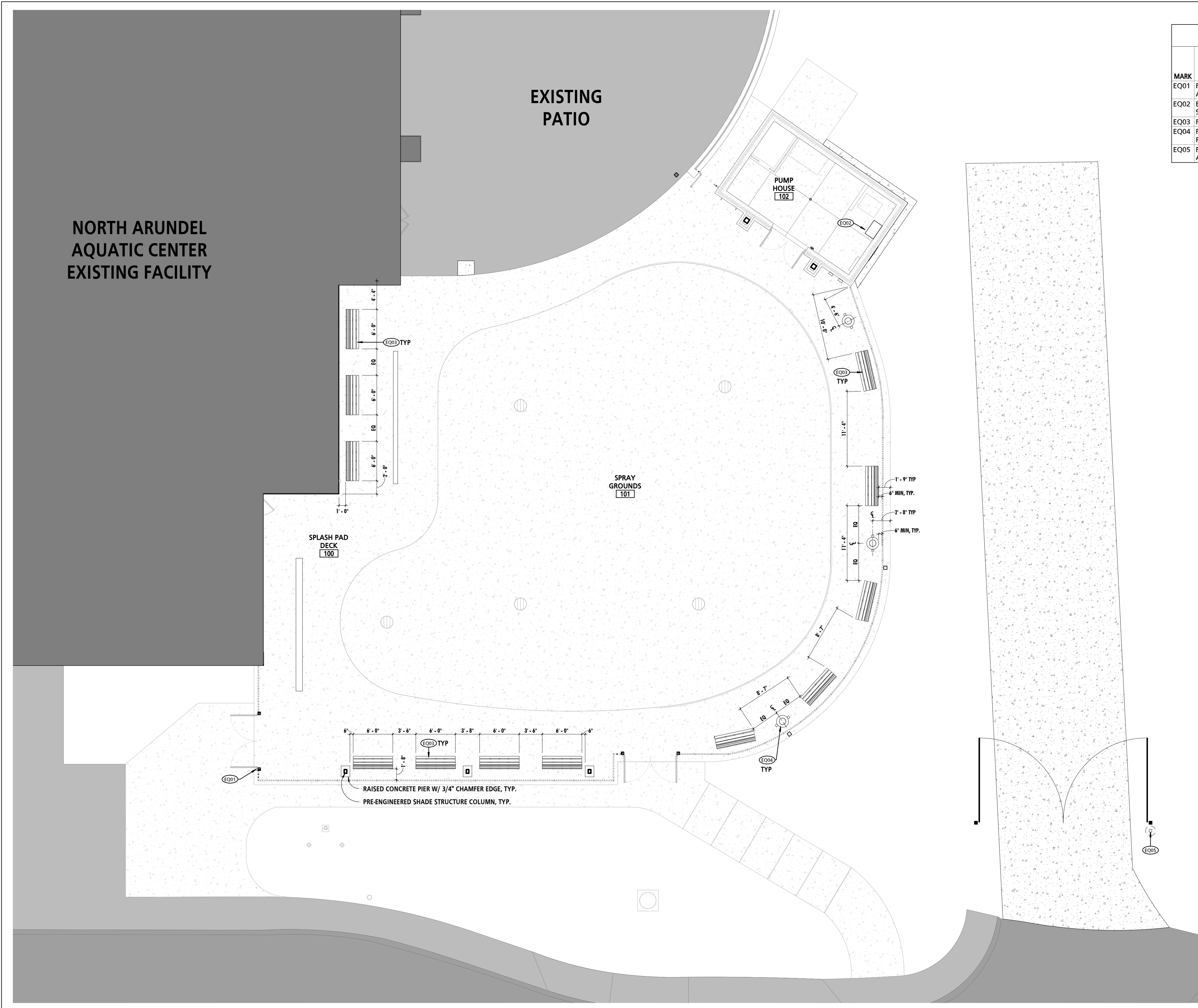
ARCHITECTURAL

N. ARUNDEL SWM CT-SPLASH PADS
ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

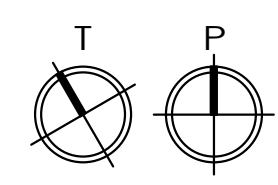
SHEET NO: _____
PROJECT NO: P570000
PROPOSAL NO: P570003

A103
SLAB DIMENSION PLAN

SCHEDULE - EQUIPMENT							
MARK	DESCRIPTION	BOD MANUFACTURER	BOD MODEL	OWNER FURNISH AND INSTALL	OWNER FURNISH CONTRACTOR INSTALL	CONTRACTOR FURNISH AND INSTALL	COMMENTS
EQ01	FIRE DEPARTMENT GATE ACCESS BOX	KNOX	KNOXBOX 3200			●	
EQ02	EMERGENCY EYE WASH STATION	GRAINGER	HONEYWELL 7 GAL. GRAVITY-FED			●	PROVIDED W/ EMERGENCY EYE WASH SINGAGE. WALL-MOUNTED AT ADA-COMPLIANT HEIGHT
EQ03	FIXED COMPOSITE BENCH	THE PARK	RICHMOND			●	LENGTH = 6'-0"
EQ04	FIXED 32 GAL TRASH RECEPTACLE	THE PARK	INGROUND MOUNT RECEPTACLE			●	
EQ05	FIRE DEPARTMENT GATE ACCESS BOX	KNOX	KNOXBOX 3200			●	SURFACE MOUNTED TO POST (SEE A100 FOR DETAILS)



1 EQUIPMENT PLAN
1/8" = 1'-0"



PROFESSIONAL CERTIFICATION		SEAL
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.		
LICENSE NO. 15505	EXPIRATION DATE: 08-18-2024	
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT	DGN BY: _____	
MANN'S WOODWARD STUDIOS 6000 SANDPIPER CIRCLE, SUITE 111 NOTTINGHAM, MARYLAND 21095 (P) 410-441-1000	DWN BY: _____ CHRD BY: _____ DATE: _____	

REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT		09/06/2023
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

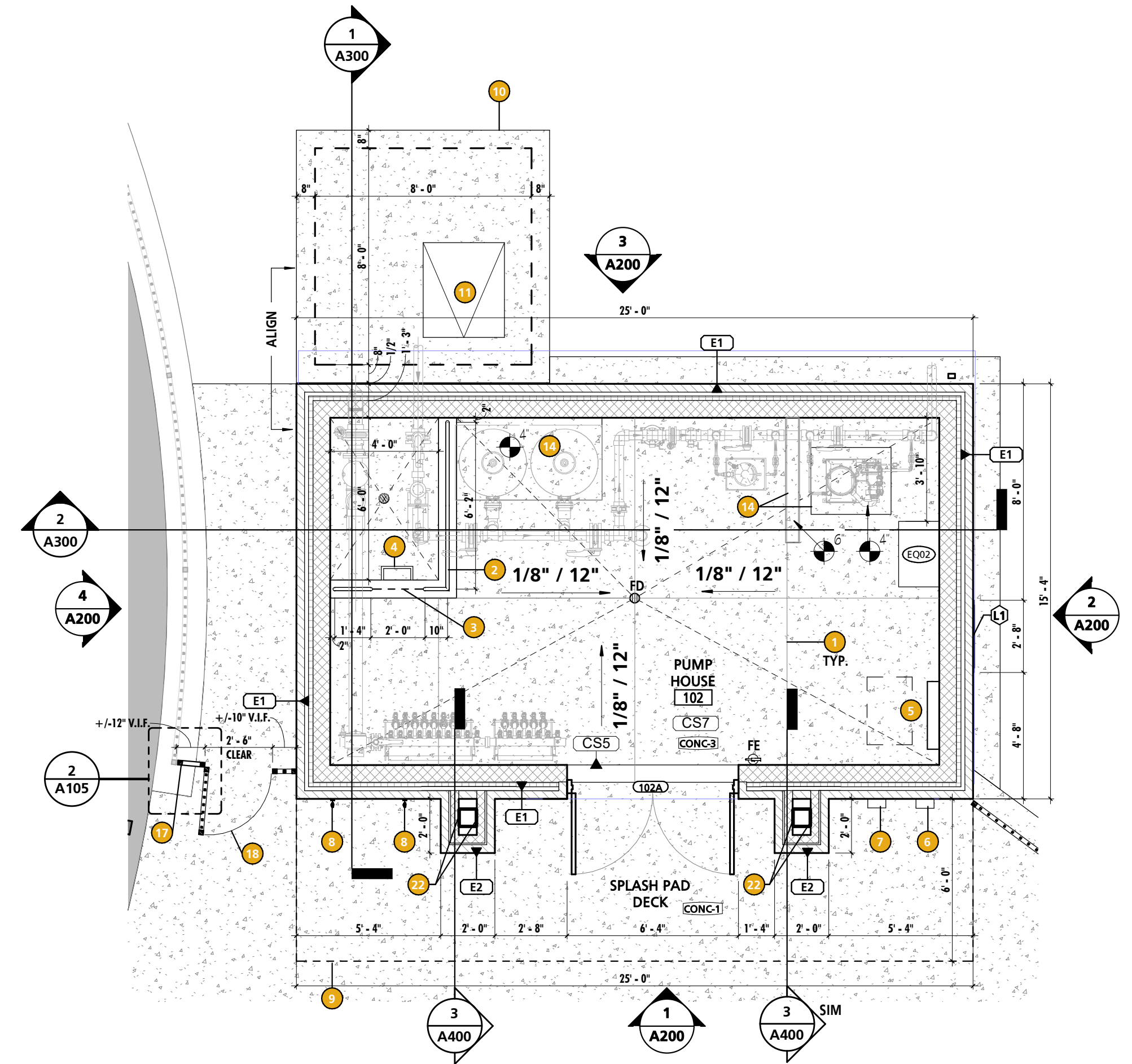
ARCHITECTURAL	
N. ARUNDEL SWM CT-SPLASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS	
A104	EQUIPMENT PLAN

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.

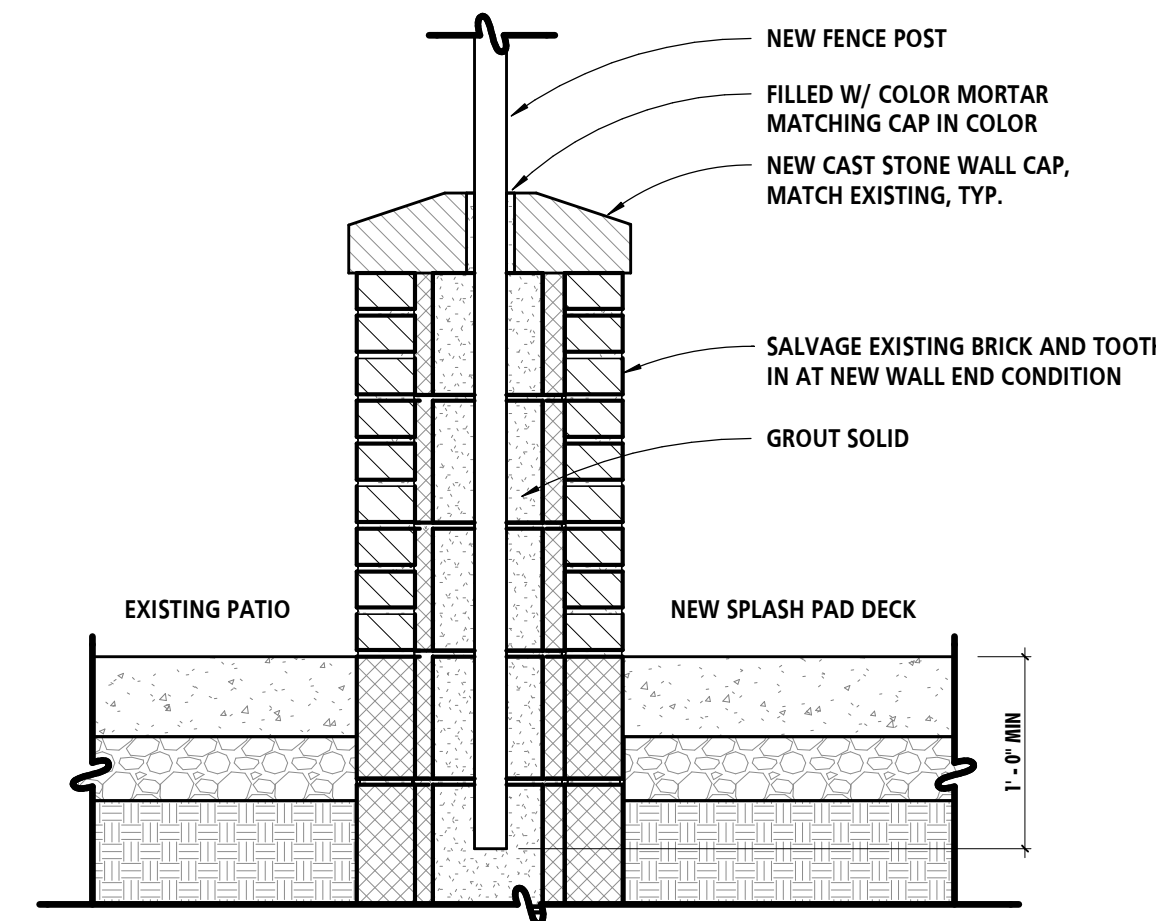
SCHEDULE - FINISHES									
RM #	ROOM INFORMATION ROOM NAME	FLOOR FINISH	BASE	WALL FINISH				CEILING FINISH	REMARKS
				NORTH	SOUTH	EAST	WEST		
102	PUMP HOUSE	CONC-3	--	HPC-1	HPC-1	HPC-1	HPC-1	EXPOSED	

SCHEDULE - MATERIAL FINISH KEY	
FINISH MARK	DESCRIPTION
CONC-1	CONCRETE W/ BROOM FINISH AND INTEGRAL COLORING PIGMENT - COLOR 1
CONC-2	CONCRETE W/ BROOM FINISH AND INTEGRAL COLORING PIGMENT - COLOR 2
CONC-3	SEALED CONCRETE
CONC-4	CONCRETE W/ BROOM FINISH
HPC-1	HIGH PERFORMANCE COATING (COLOR: TBD)

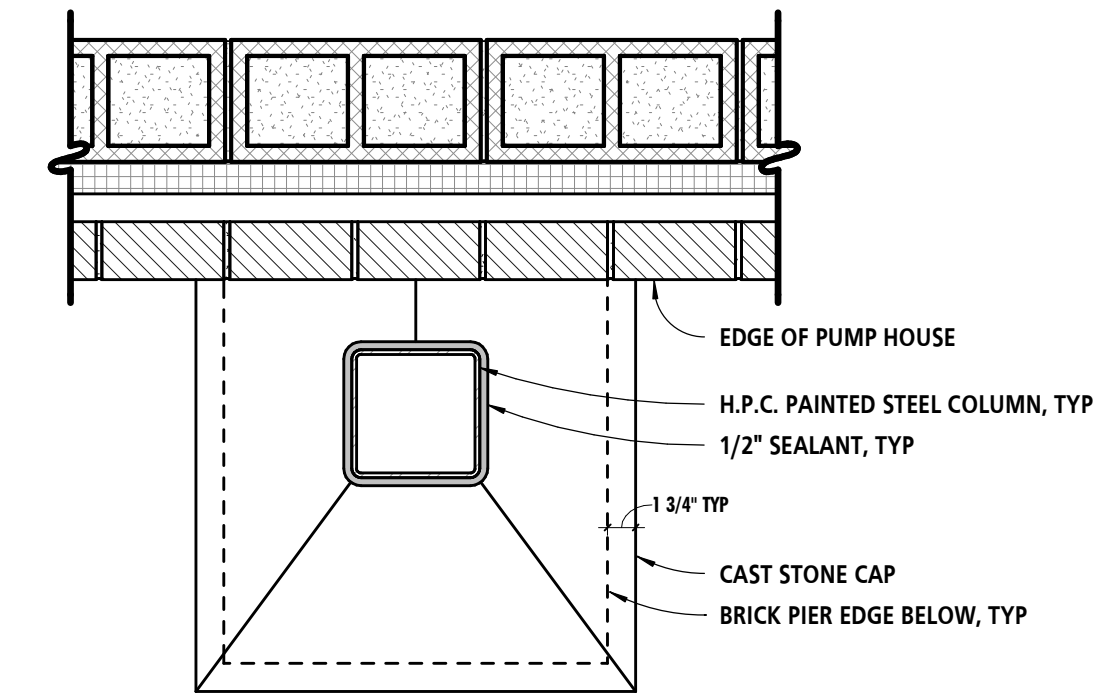
REFERENCED NOTES - PUMP HOUSE	
NO.	NOTE
1	SAW CUT CONTROL JOINT
2	2-3/8" O.D. PAINTED GALV TUBE STEEL GUARDRAIL & 4" RAISED CONCRETE CURB
3	TWO (2) CHAINS ACROSS OPENING W/ LATCH. MOUNT AT 20" A.F.F. & 36" A.F.F.
4	WALL-MOUNTED, STEEL LADDER RUNGS. BASIS OF DESIGN SHALL BE CONCAST - STP-2
5	ELECTRICAL TRANSFORMER AND PANEL
6	BOOSTER PUMP EMERGENCY SHUT OFF SWITCH AND SECURE ENCLOSURE
7	EMERGENCY PHONE AND SECURE WEATHERPROOF ENCLOSURE
8	ADA-COMPLIANT, WALL-MOUNT DECK SHOWERS WITH FOOT RINSE. BASIS OF DESIGN SHALL BE OUTDOOR SHOWER CO - WM-442-ADA-F5
9	ROOF OVERHANG ABOVE
10	8x8x9 CAST-IN-PLACE CONCRETE BALANCE TANK
11	BALANCE TANK ACCESS HATCH
12	EXTERIOR HOSE BIB
13	H.P.C. PAINTED STEEL COLUMN
14	RAISED CONCRETE PAD/CURB. COORDINATE FINAL SIZE AND LOCATION WITH POOL EQUIPMENT REQUIREMENTS.
15	4"x4" PREFINISHED, ALUMINUM GUTTER
16	2"x3" PREFINISHED, ALUMINUM DOWNSPOUT W/ OPEN DISCHARGE TO SPLASHBLOCK
17	8'-0" HIGH, PREFINISHED ALUMINUM FENCING. BASIS OF DESIGN SHALL BE AMERISTAR - ECHELON II MAJESTIC 3-RAIL.
18	8'-0" HIGH, PREFINISHED ALUMINUM GATE W/ 30" CLEAR OPENING. BASIS OF DESIGN SHALL BE AMERISTAR - ECHELON II MAJESTIC 3-RAIL SGL GATE.
19	1" RECESSED BRICK COURSE BANDING
20	4" HIGH CAST STONE CAP
21	CHEMICAL STORAGE SIGNAGE. (SEE MR6 FOR ADDITIONAL INFORMATION.)
22	MASONRY PIERS ATTACHED TO STRUCTURAL STEEL COLUMN W/ GALVANIZED CORRUGATED COLUMN ANCHORS AT 8' O/C VERTICALLY.



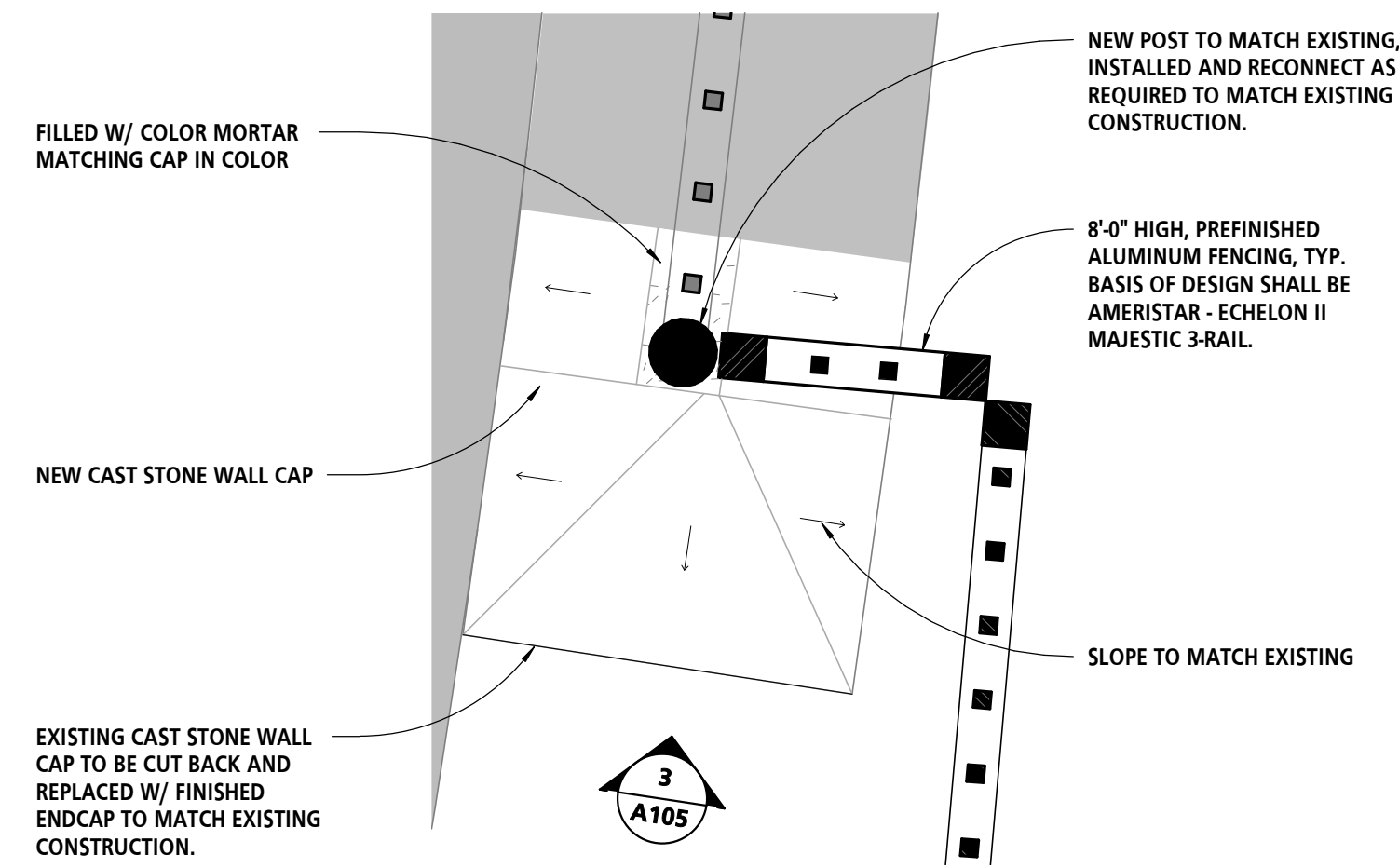
1 PUMP HOUSE FLOOR PLAN
1/4" = 1'-0"



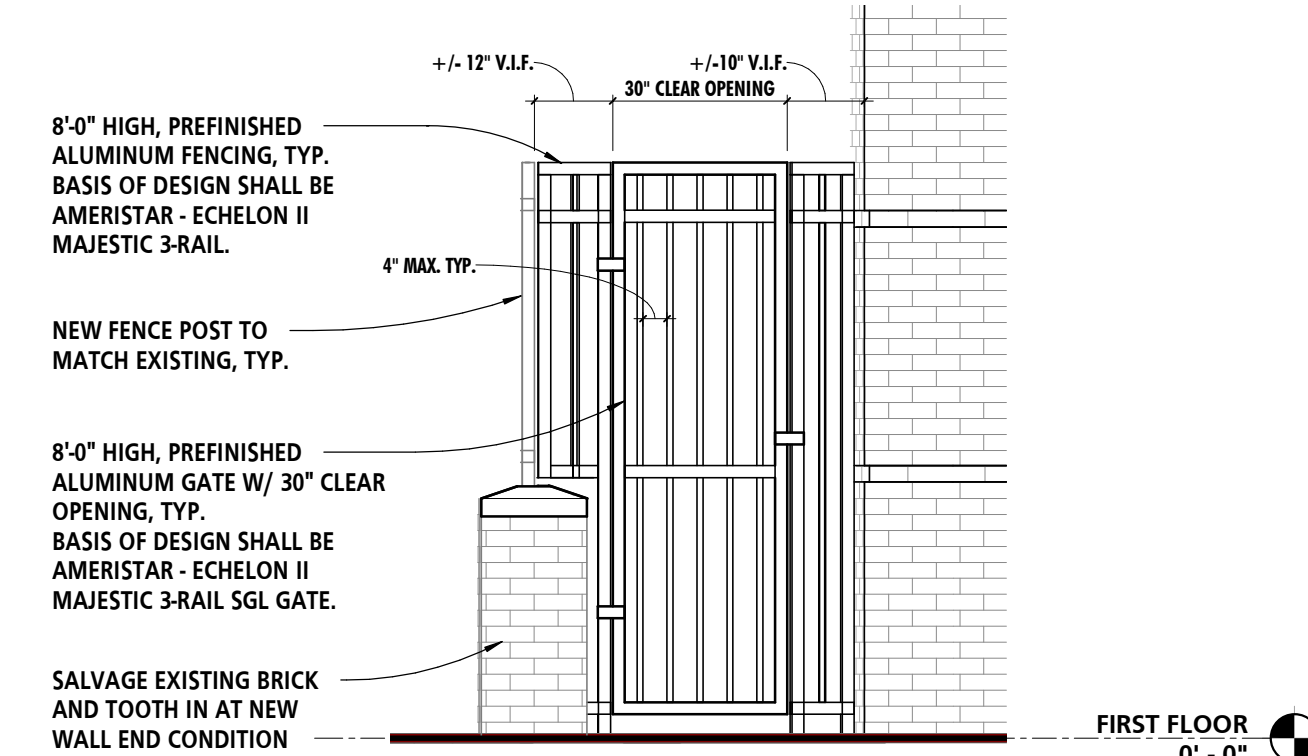
4 SECTION @ FENCE POST
1" = 1'-0"



5 PIER CAP DETAIL
1" = 1'-0"



2 PLAN DETAIL @ EXISTING FENCING
1 1/2" = 1'-0"



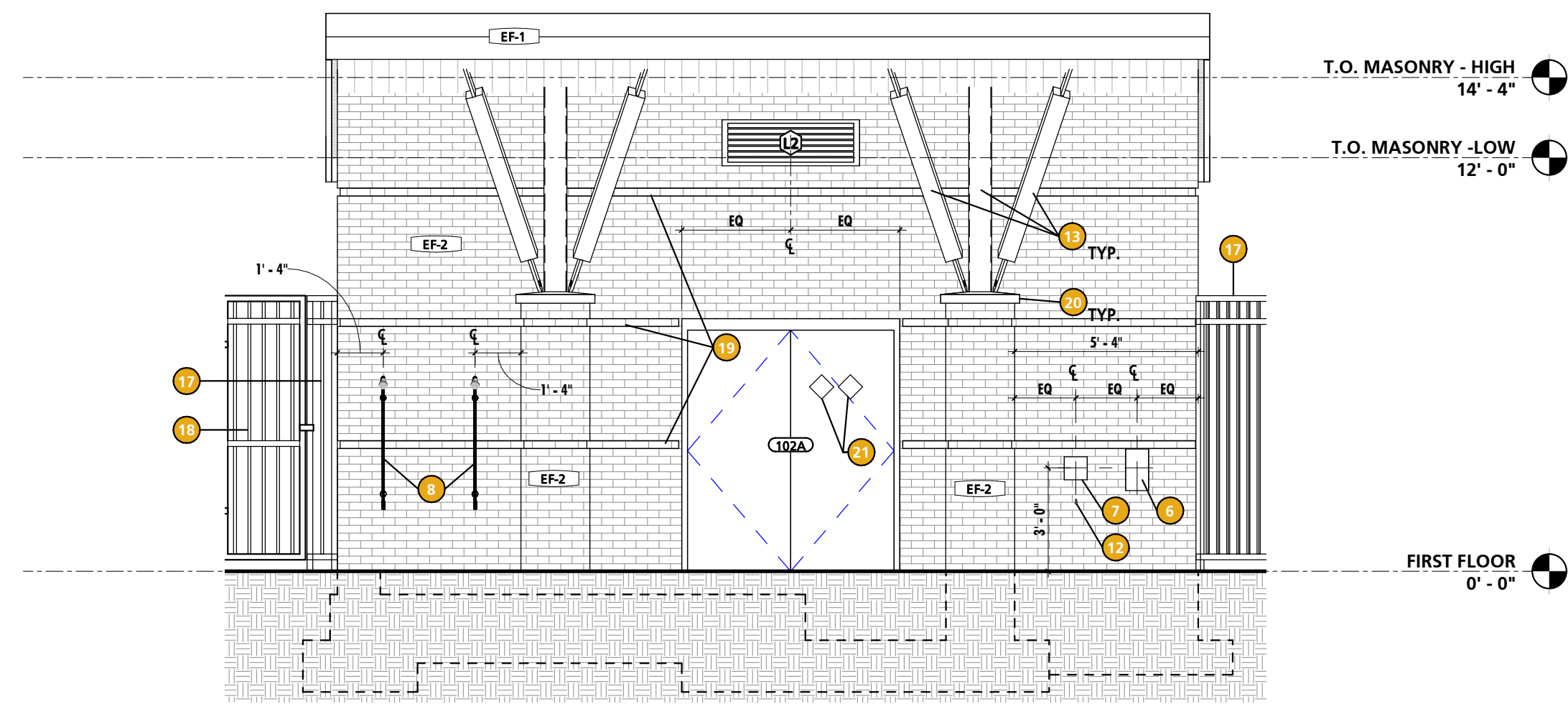
3 ELEVATION DETAIL @ EXISTING FENCING
3/8" = 1'-0"

PROFESSIONAL CERTIFICATION		SEAL		REVISION				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS						
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024				NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE	ARCHITECTURAL	
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT		DGN BY: _____		60% DESIGN DEVELOPMENT		09/06/2023					DRAWN BY: _____	N. ARUNDEL SWM CT-SPLASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS		
MANN'S WOODWARD STUDIOS 6000 SANDPIPER CIRCLE, SUITE 11 NOTTINGHAM, MARYLAND 21150 (410) 441-1000		DWN BY: _____		90% CONSTRUCTION DOCUMENTS		12/15/2023					CHECKED BY: _____			A105 PUMP HOUSE PLAN
		CHD BY: _____		100% CONSTRUCTION DOCUMENTS		07/01/2024					SHEET NO.: _____			
		DATE: _____									PROJECT NO.: P570000			
											PROPOSAL NO.: P570003			

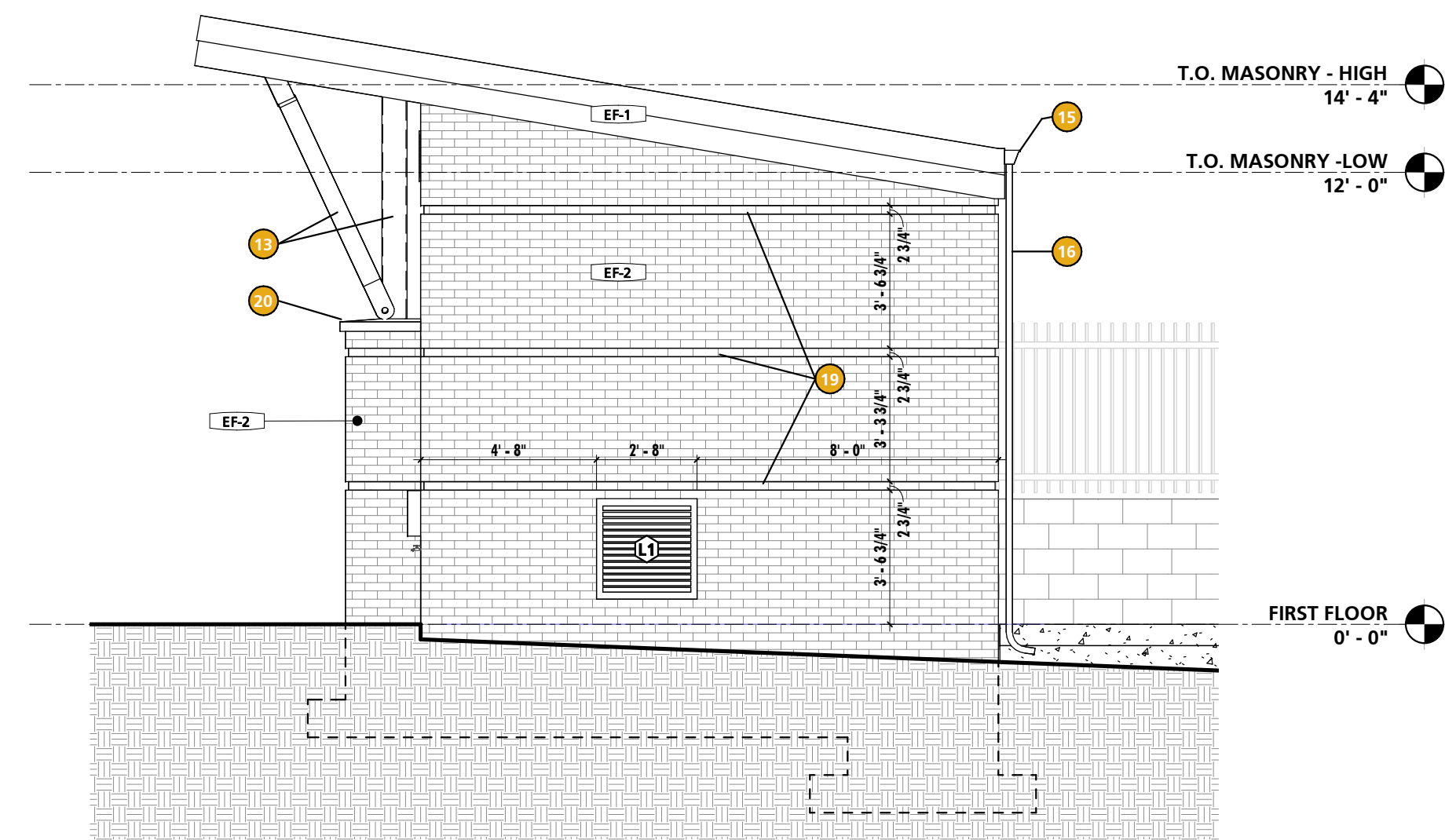
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.

ARCHITECT PROJECT NO. 45-111
DWG. FILENAME: 7/24/2024 10:40:20 AM

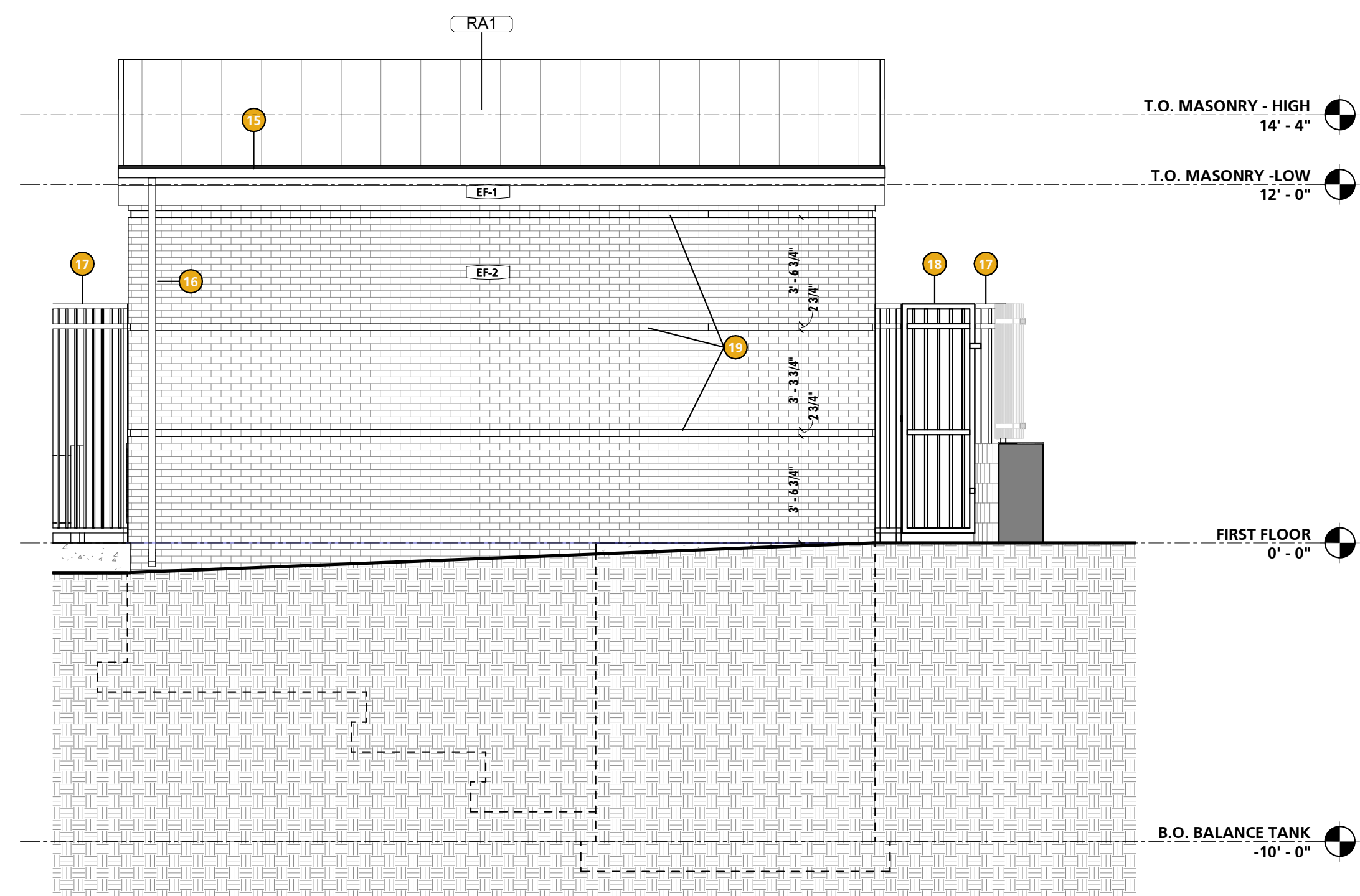
ARCHITECT PROJECT NO. 45-111
DWG. FILENAME:
7/24/2024 10:40:22 AM



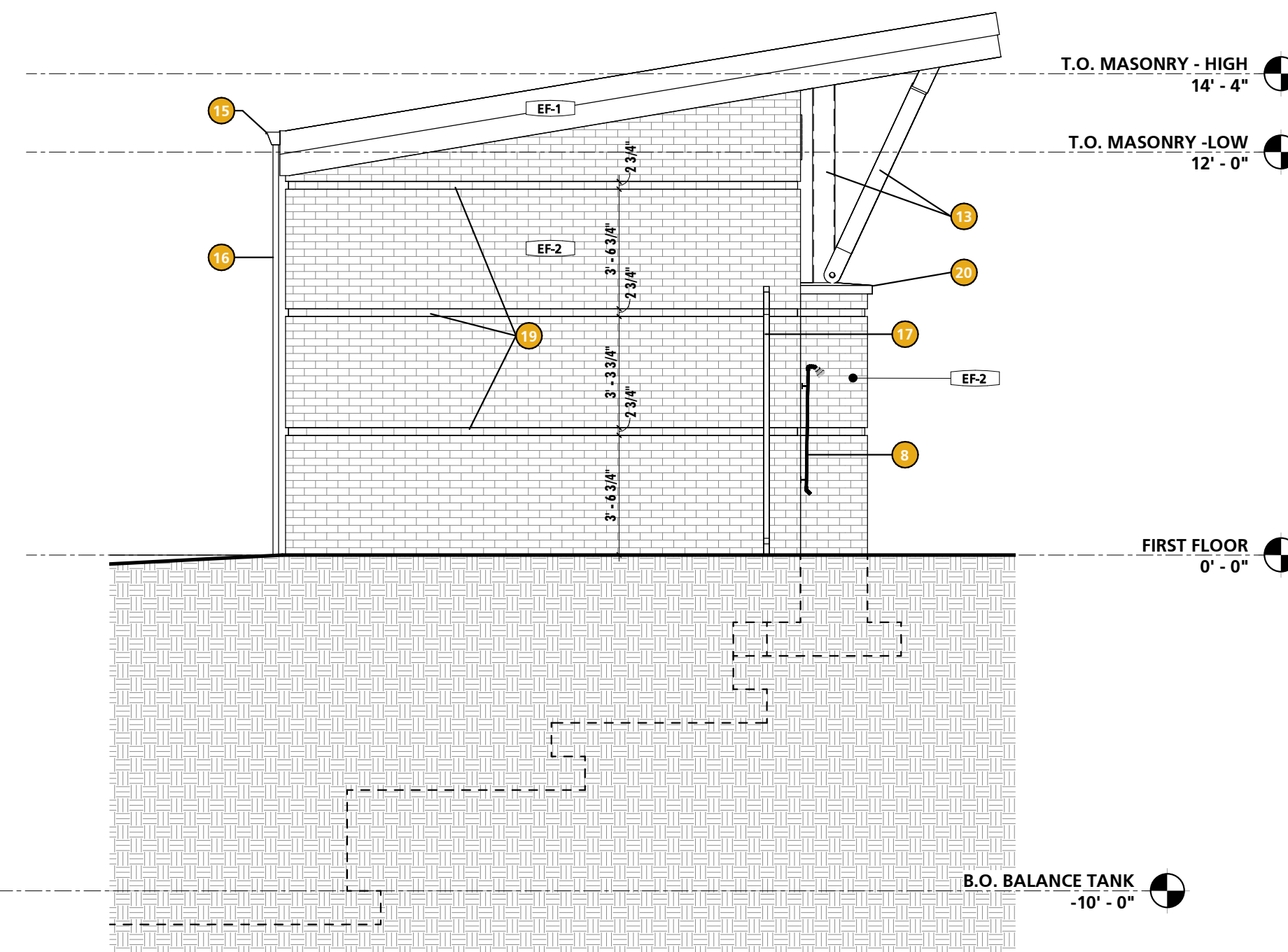
1 SOUTH ELEVATION @ PUMPHOUSE
1/4" = 1'-0"



2 EAST ELEVATION @ PUMPHOUSE
1/4" = 1'-0"



3 NORTH ELEVATION @ PUMPHOUSE
1/4" = 1'-0"



4 WEST ELEVATION @ PUMPHOUSE
1/4" = 1'-0"

REFERENCED NOTES - PUMP HOUSE	
NO.	NOTE
1	SAW CUT CONTROL JOINT
2	2-3/8" O.D. PAINTED GALV TUBE STEEL GUARDRAIL & 4" RAISED CONCRETE CURB
3	TWO (2) CHAINS ACROSS OPENING W/ LATCH. MOUNT AT 20" A.F.F. & 36" A.F.F.
4	WALL-MOUNTED, STEEL LADDER RUNGS. BASIS OF DESIGN SHALL BE CONCAST - STP-2
5	ELECTRICAL TRANSFORMER AND PANEL
6	BOOSTER PUMP EMERGENCY SHUT OFF SWITCH AND SECURE ENCLOSURE
7	EMERGENCY PHONE AND SECURE WEATHERPROOF ENCLOSURE
8	ADA-COMPLIANT, WALL-MOUNT DECK SHOWERS WITH FOOT RINSE. BASIS OF DESIGN SHALL BE OUTDOOR SHOWER CO - WM-442-ADA-FS
9	ROOF OVERHANG ABOVE
10	8x8x9 CAST-IN-PLACE CONCRETE BALANCE TANK
11	BALANCE TANK ACCESS HATCH
12	EXTERIOR HOSE BIB
13	H.P.C. PAINTED STEEL COLUMN
14	RAISED CONCRETE PAD/CURB. COORDINATE FINAL SIZE AND LOCATION WITH POOL EQUIPMENT REQUIREMENTS.
15	4"x4" PREFINISHED, ALUMINUM GUTTER
16	2"x3" PREFINISHED, ALUMINUM DOWNSPOUT W/ OPEN DISCHARGE TO SPLASHBLOCK
17	8'-0" HIGH, PREFINISHED ALUMINUM FENCING. BASIS OF DESIGN SHALL BE AMERISTAR - ECHELON II MAJESTIC 3-RAIL.
18	8'-0" HIGH, PREFINISHED ALUMINUM GATE W/ 30" CLEAR OPENING. BASIS OF DESIGN SHALL BE AMERISTAR - ECHELON II MAJESTIC 3-RAIL SGL GATE.
19	1" RECESSED BRICK COURSE BANDING
20	4" HIGH CAST STONE CAP
21	CHEMICAL STORAGE SIGNAGE. (SEE MR6 FOR ADDITIONAL INFORMATION.)
22	MASONRY PIERS ATTACHED TO STRUCTURAL STEEL COLUMN W/ GALVANIZED CORRUGATED COLUMN ANCHORS AT 8" O/C VERTICALLY.

EXTERIOR SCHEDULE - MATERIAL FINISH KEY	
FINISH MARK	DESCRIPTION
EF-1	PRE-FINISHED BENT METAL FASCIA. (COLOR: SLATE GREY / MATCH COLOR OF EXISTING BUILDING FASCIA)
EF-2	BRICK VENEER (BOD: BELDEN - BEACON GRAY SMOOTH / MORTAR - LEHIGH FLAMINGO C-320)

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024

ARCHITECT:
DAVID WOODWARD, AIA
PRINCIPAL ARCHITECT
MANN'S WOODWARD STUDIOS
6000 SANDPIPER CIRCLE, SUITE 11
NOTTINGHAM, MARYLAND 21095
(410) 341-1000

DGN BY: _____
DWN BY: _____
CHD BY: _____

SEAL

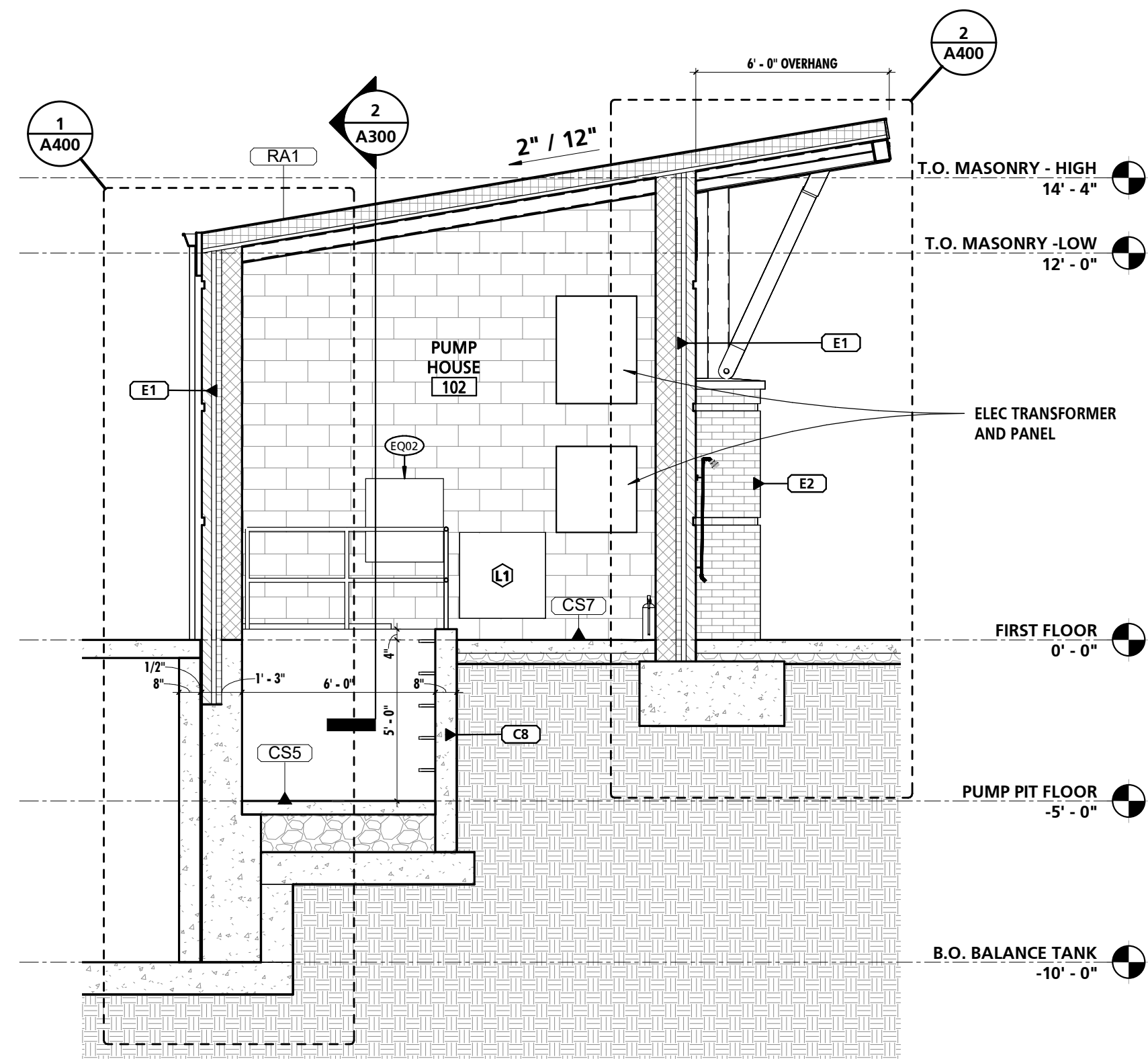
REVISION			
NO.	DESCRIPTION	BY	DATE
1	60% DESIGN DEVELOPMENT		09/06/2023
2	90% CONSTRUCTION DOCUMENTS		12/15/2023
3	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

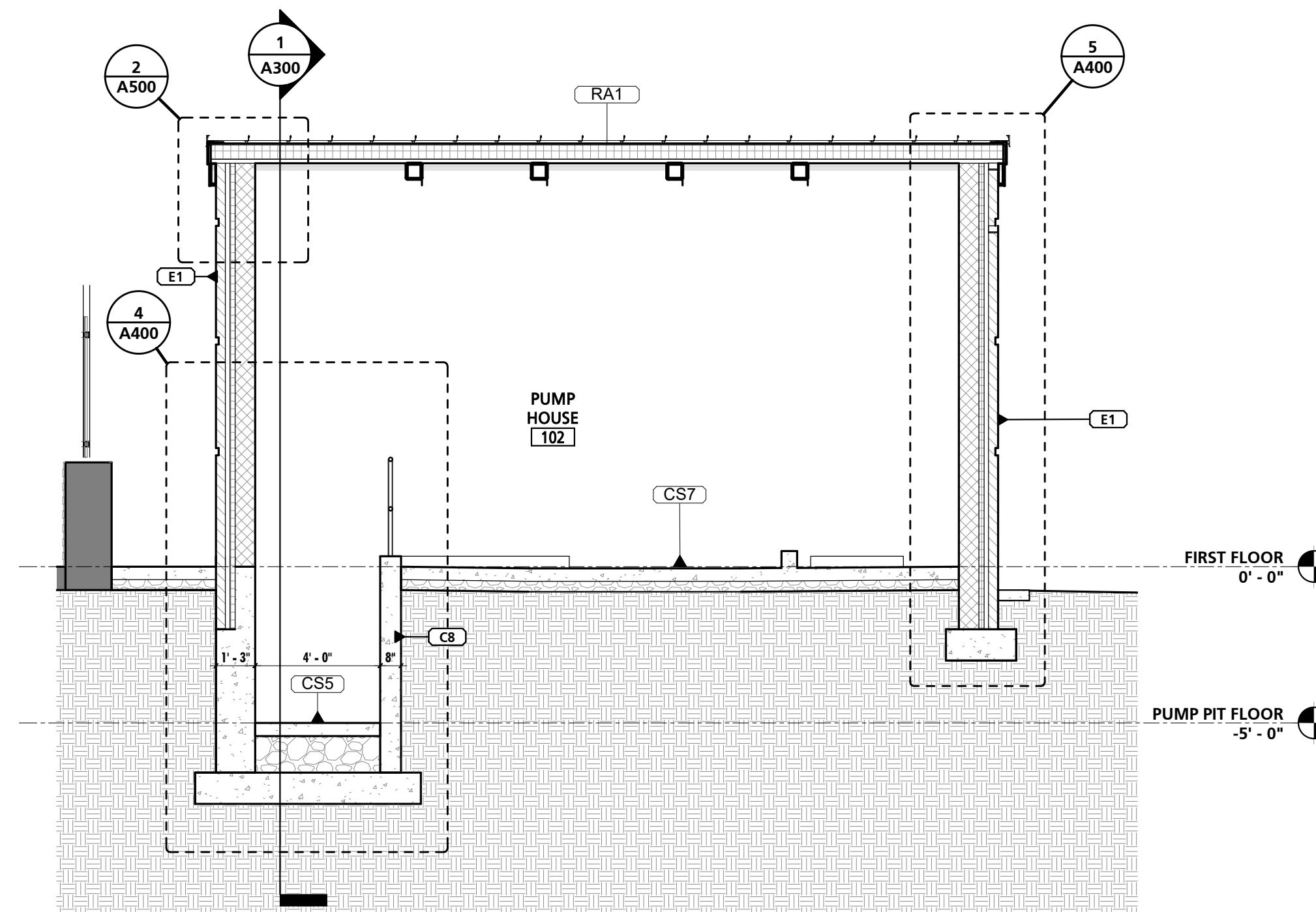
ARCHITECTURAL

N. ARUNDEL SWM CT-SPLASH PADS
ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

A200
EXTERIOR ELEVATIONS



1 TYPICAL TRANSVERSE SECTION
1/4" = 1'-0"

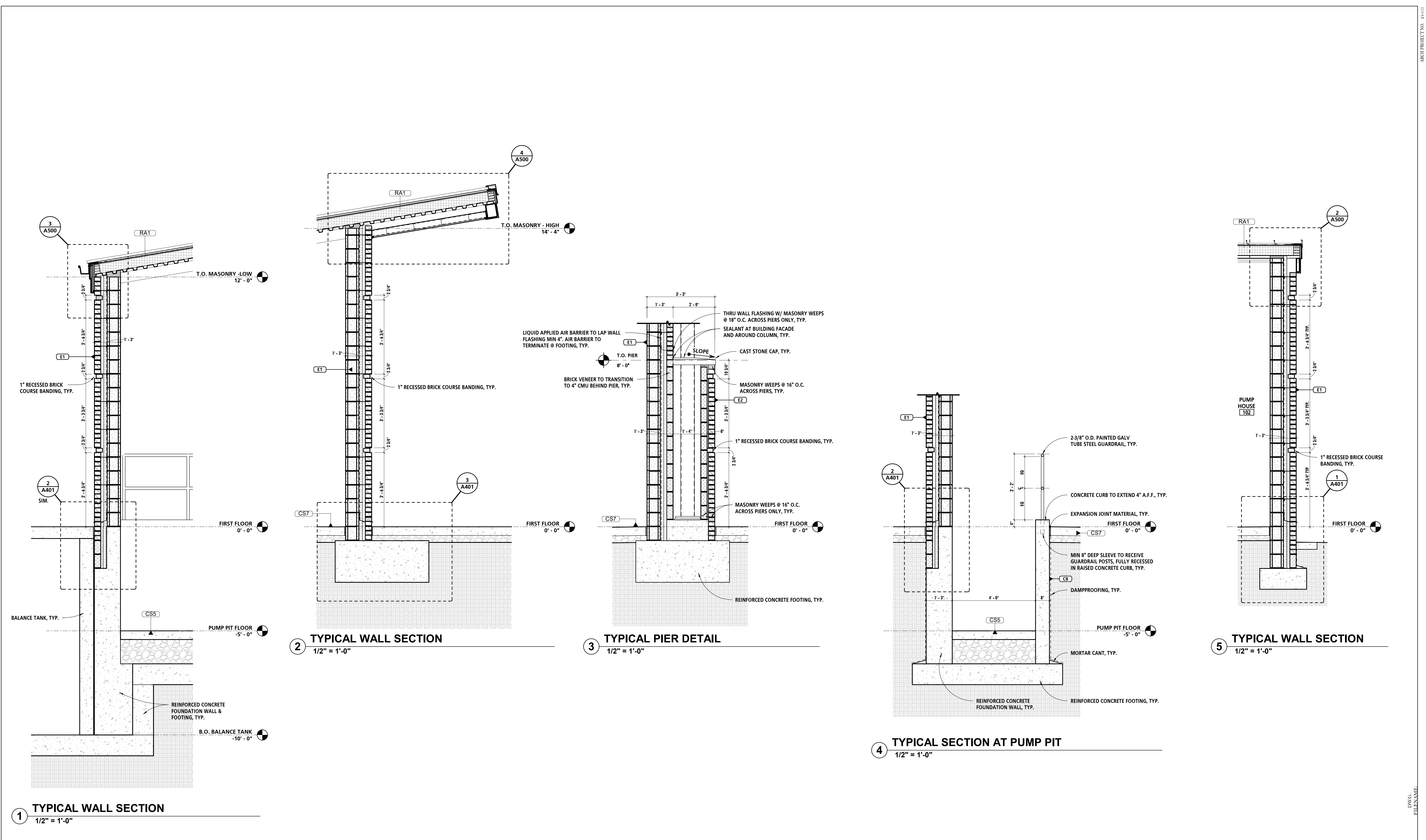


2 TYPICAL LONGITUDINAL SECTION
1/4" = 1'-0"

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024 ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS 6000 SANDPIPER CIRCLE, SUITE 111 NOTTINGHAM, MARYLAND 21155 (P) 410-241-1000		SEAL DGN BY: _____ DWN BY: _____ CHRD BY: _____ DATE: _____	REVISION			ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE:	
	60% DESIGN DEVELOPMENT		09/06/2023					ARCHITECTURAL	
	90% CONSTRUCTION DOCUMENTS		12/15/2023					DRAWN BY:	
	100% CONSTRUCTION DOCUMENTS		07/01/2024	CHIEF ENGINEER		PROJECT MANAGER		CHECKED BY:	
				APPROVED	DATE	APPROVED	DATE	SHEET NO.:	
				ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES		PROJECT NO.: P570000	
								PROPOSAL NO.: P570003	

N. ARUNDEL SWM CT-SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

A300
 BUILDING SECTIONS

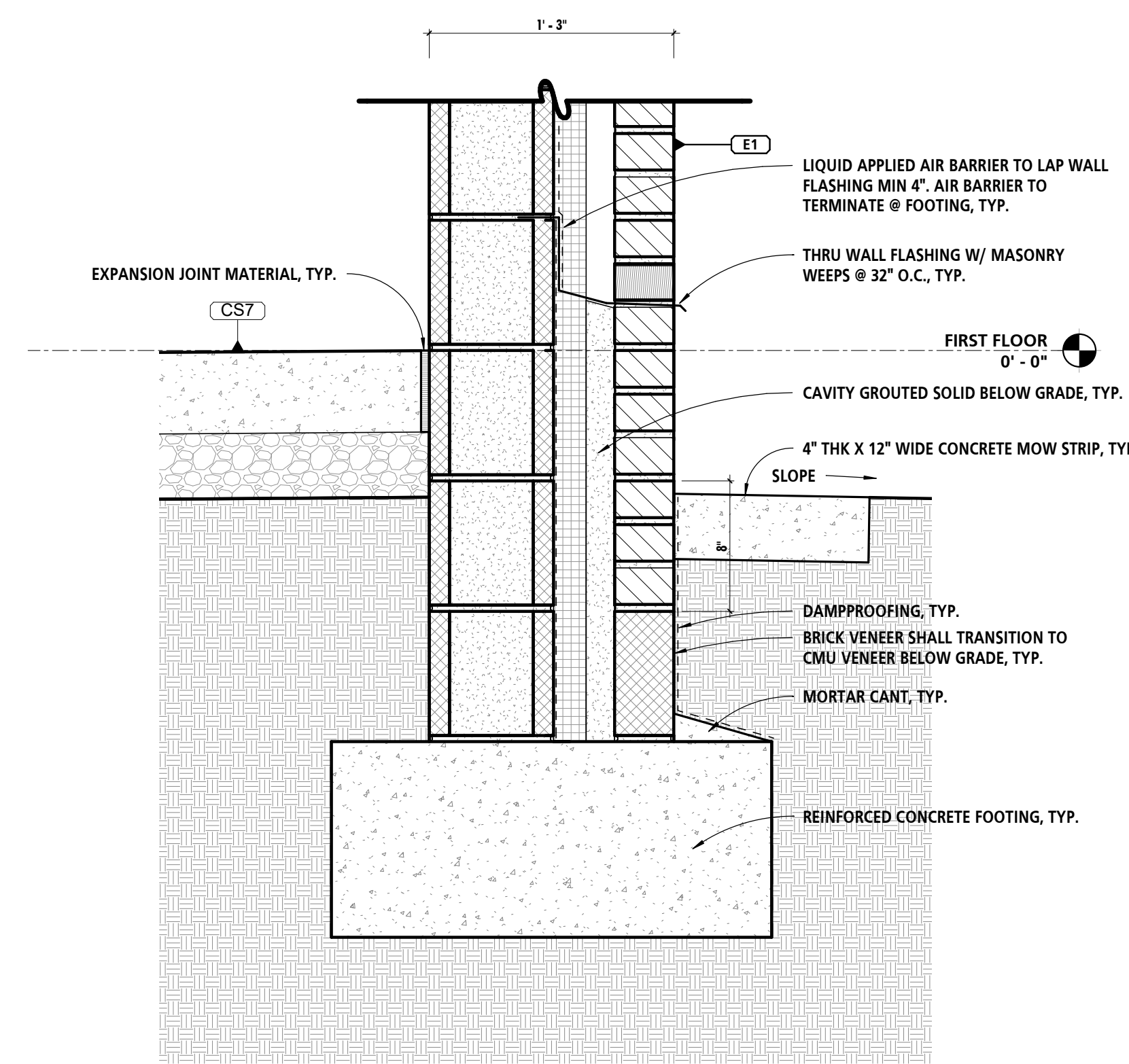


PROFESSIONAL CERTIFICATION		SEAL
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.		
LICENSE NO. 15505	EXPIRATION DATE: 08-18-2024	
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT	DGN BY: _____	
MANN'S WOODWARD STUDIOS 6000 SANDPIPER CIRCLE, SUITE 111 NOTTINGHAM, MARYLAND 21095 (P) 410-441-1000	DWN BY: _____ CHRD BY: _____ DATE: _____	

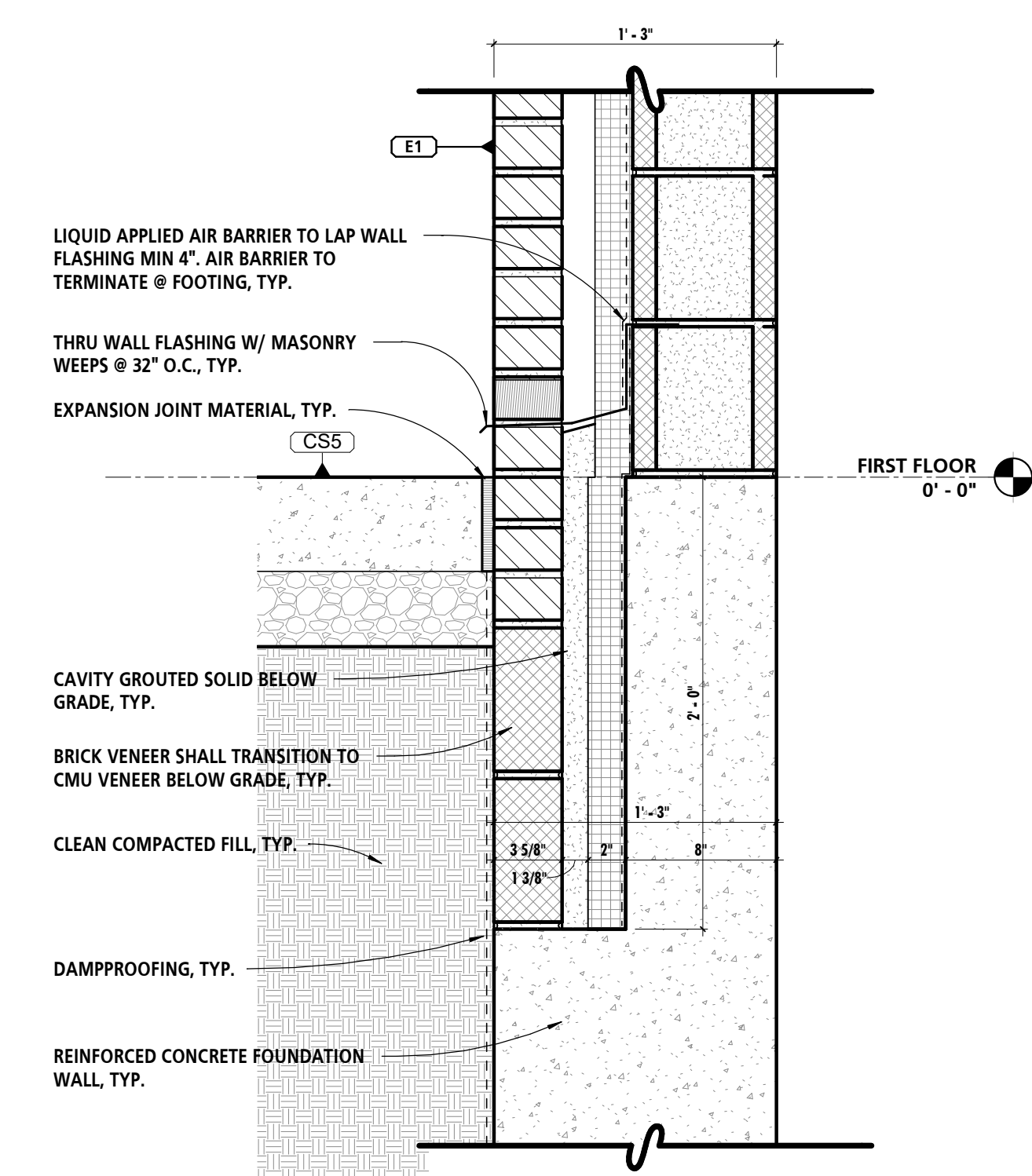
REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT		09/06/2023
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
PROJECT MANAGER		CHIEF ENGINEER	
APPROVED	DATE	APPROVED	DATE
CHIEF, RIGHT OF WAY SERVICES		ASSISTANT CHIEF ENGINEER	

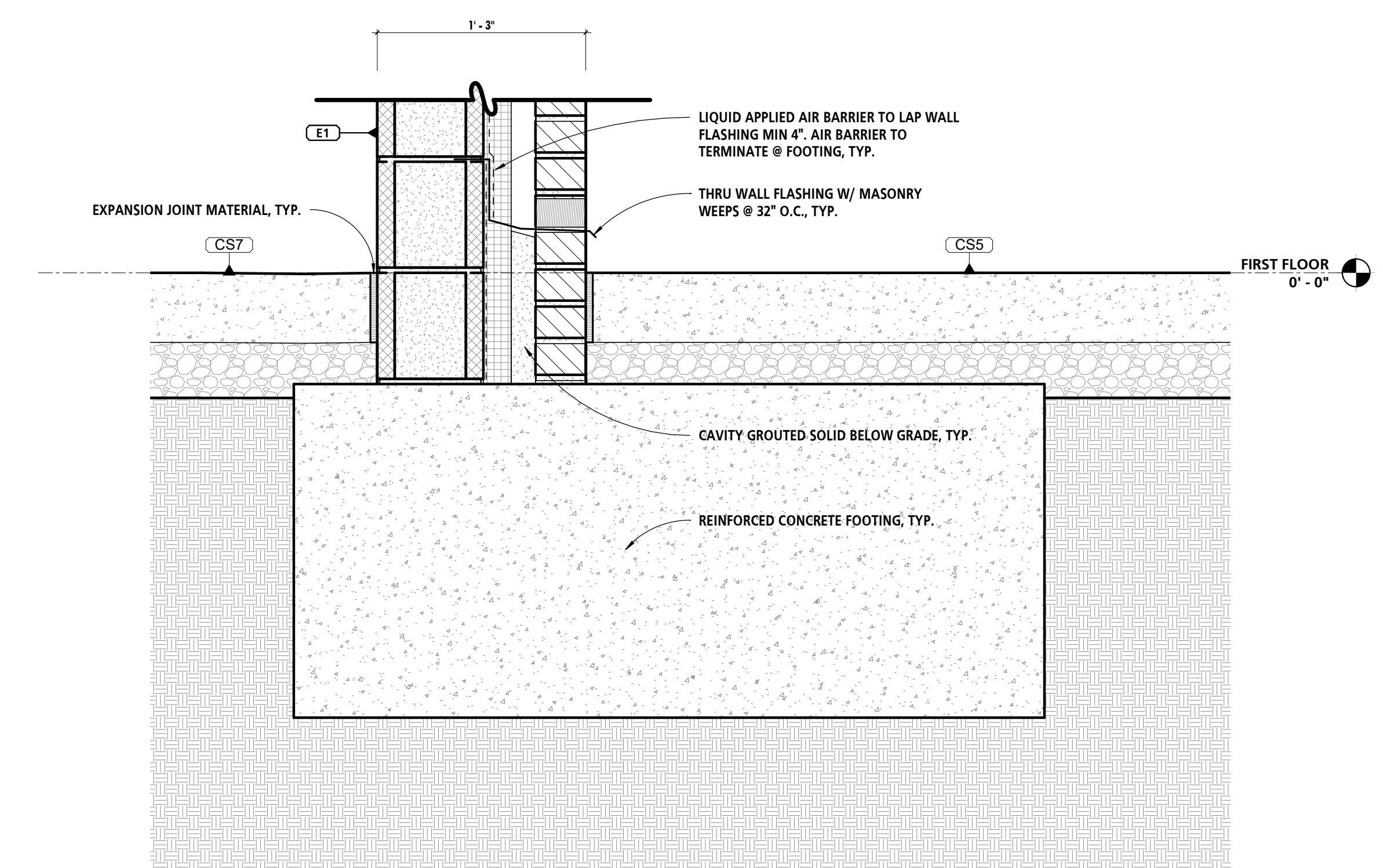
ARCHITECTURAL		A400 WALL SECTIONS
N. ARUNDEL SWM CT-SPLASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS		
SCALE:	DRAWN BY:	
CHECKED BY:	SHEET NO.:	
PROJECT NO.:	PROPOSAL NO.:	



1 TYPICAL FOUNDATION DETAIL
1 1/2" = 1'-0"



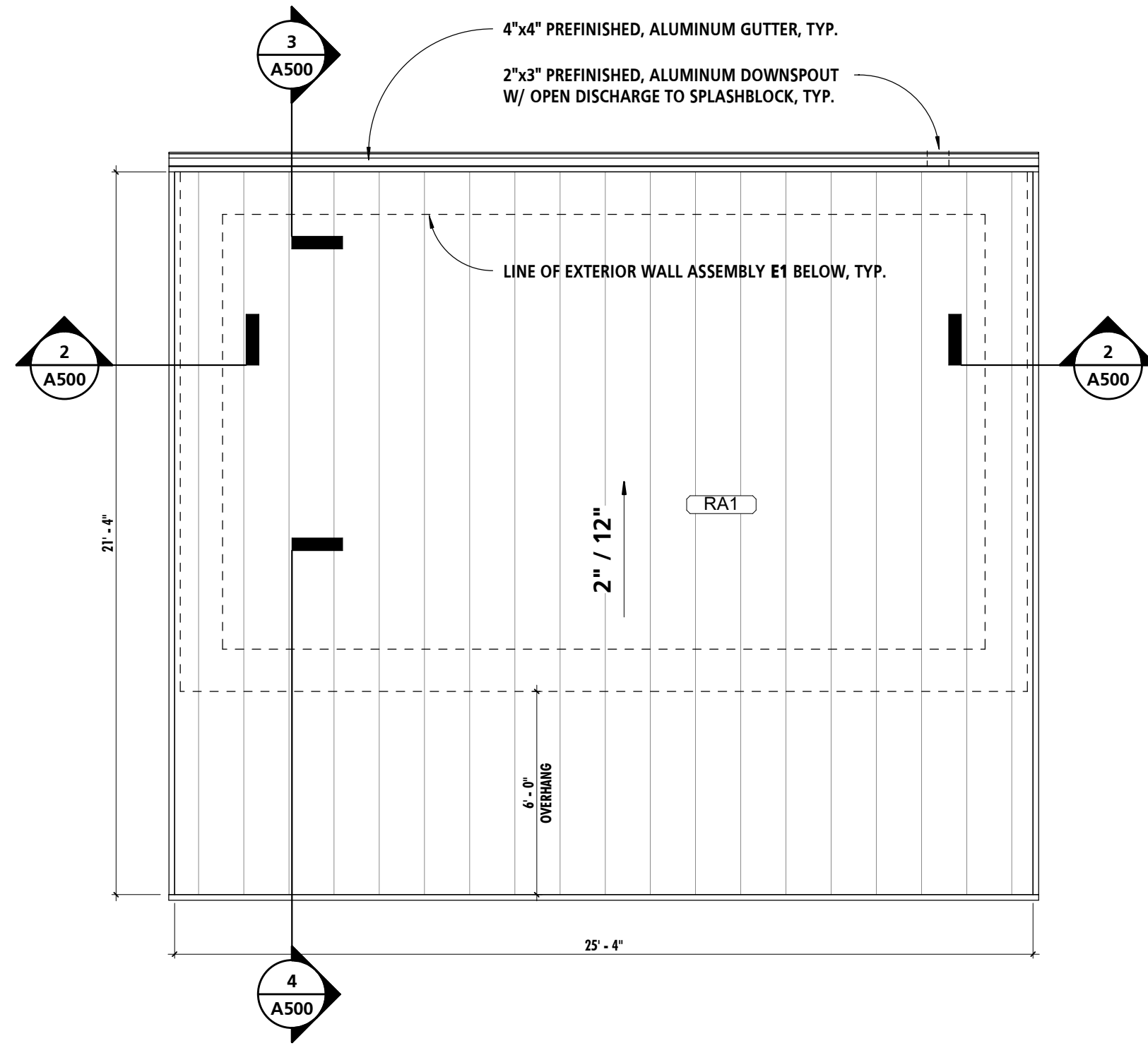
2 FOUNDATION DETAIL @ PUMP PIT
1 1/2" = 1'-0"



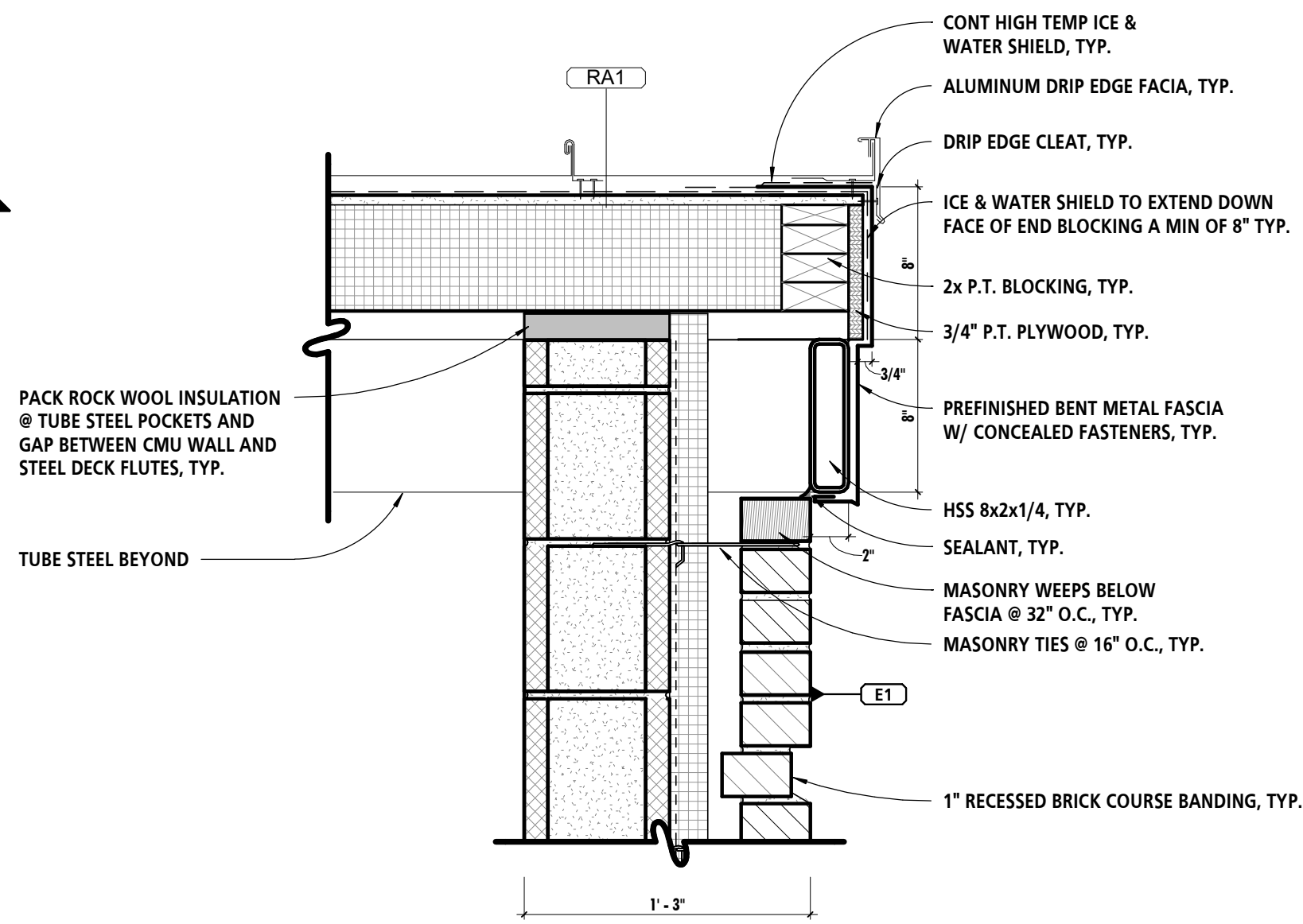
3 TYPICAL FOUNDATION DETAIL
1 1/2" = 1'-0"

PROFESSIONAL CERTIFICATION		SEAL	REVISION				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				ARCHITECTURAL		
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.			NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE		
LICENSE NO. 15505	EXPIRATION DATE: 08-18-2024		60%	DESIGN DEVELOPMENT		09/06/2023							
			90%	CONSTRUCTION DOCUMENTS		12/15/2023							
			100%	CONSTRUCTION DOCUMENTS		07/01/2024							
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT	DGN BY: _____						CHIEF ENGINEER						
MANN'S WOODWARD STUDIOS 6000 SANDPIPER CIRCLE, SUITE 111 NOTTINGHAM, MARYLAND 21095 (P) 410-440-1000	DWN BY: _____						APPROVED	DATE	PROJECT MANAGER	DATE	CHECKED BY: _____		
	CHD BY: _____						ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES		SHEET NO: P570000		
	DATE: _____										PROPOSAL NO: P570003		

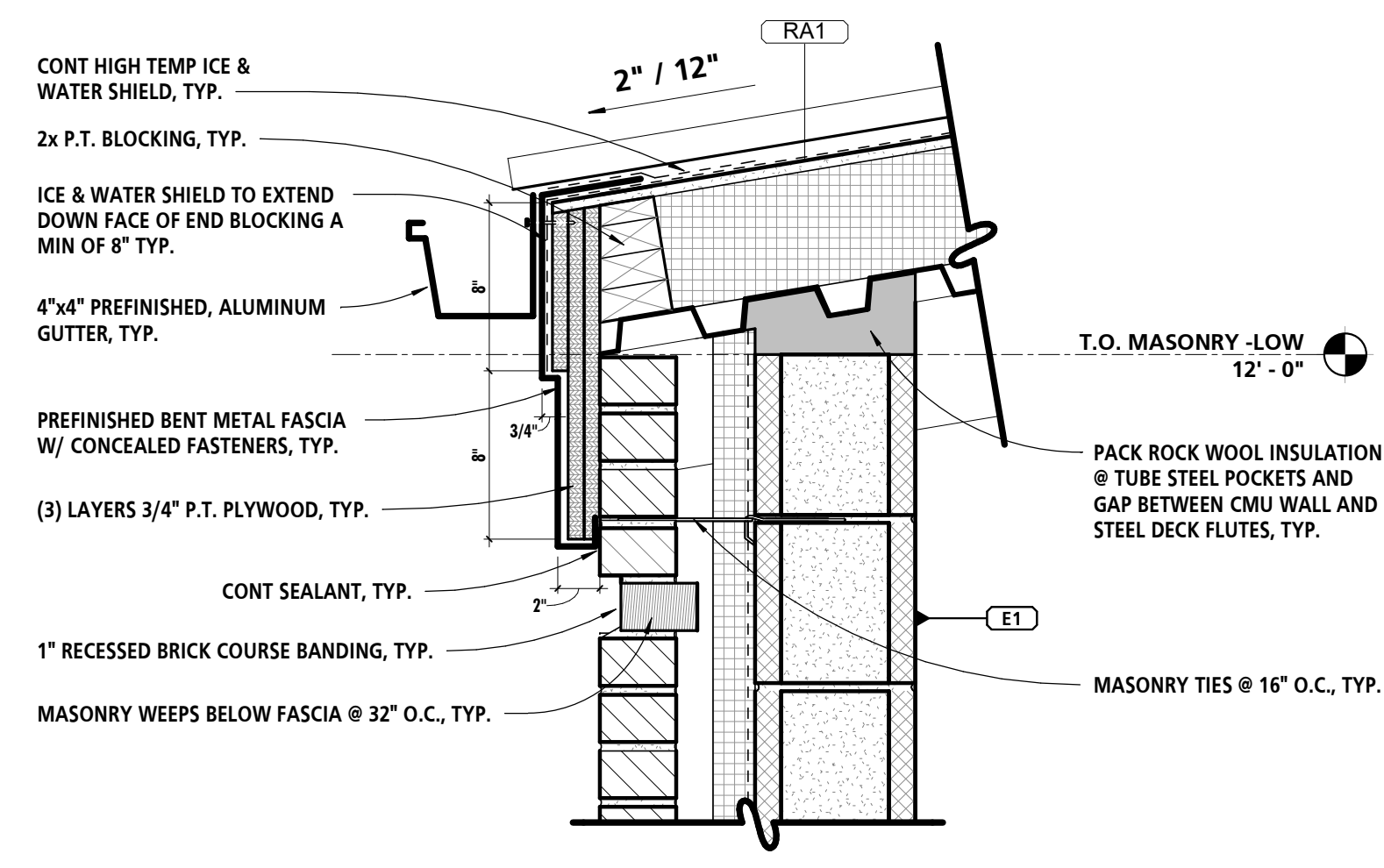
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.



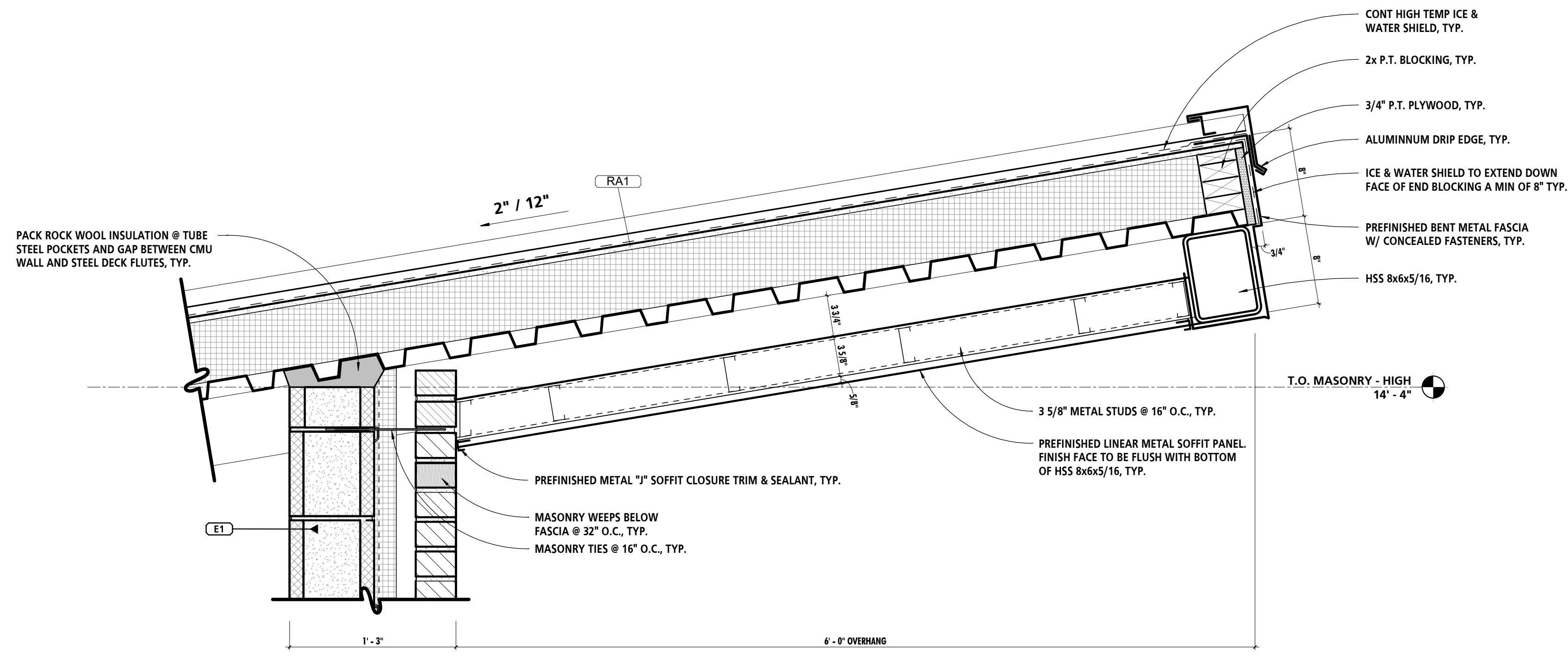
1 PUMP HOUSE ROOF PLAN
1/4" = 1'-0"



2 ROOF EDGE DETAIL @ RAKE
1 1/2" = 1'-0"



3 ROOF EDGE DETAIL @ GUTTER
1 1/2" = 1'-0"



4 ROOF EDGE DETAIL @ HIGH EAVE
1 1/2" = 1'-0"

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 15505 EXPIRATION DATE: 08-18-2023

ARCHITECT: DAVID WOODWARD, AIA
PRINCIPAL ARCHITECT
MANN'S WOODWARD STUDIOS
6000 SANDPIPER CIRCLE, SUITE 11
NOTTINGHAM, MARYLAND 21155
(P) 410-440-1000

DGN BY: _____
DWN BY: _____
CHRD BY: _____

SEAL

DATE: _____

REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT		09/06/2023
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

ARCHITECTURAL

N. ARUNDEL SWM CT-SPLASH PADS
ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

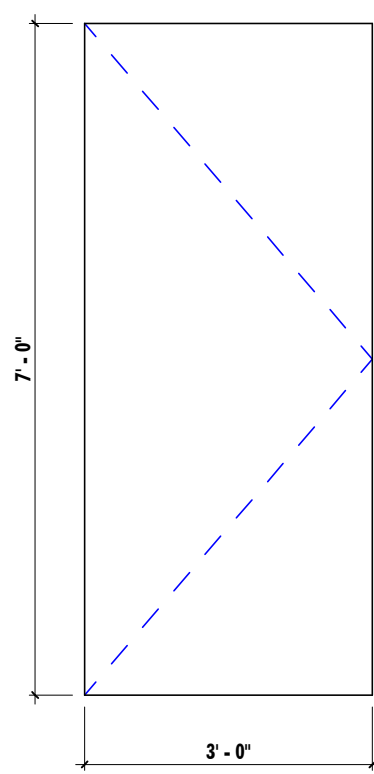
A500
ROOF PLAN & DETAILS

SCALE:
DRAWN BY:
CHECKED BY:
SHEET NO.:
PROJECT NO.: P570000
PROPOSAL NO.: P570003

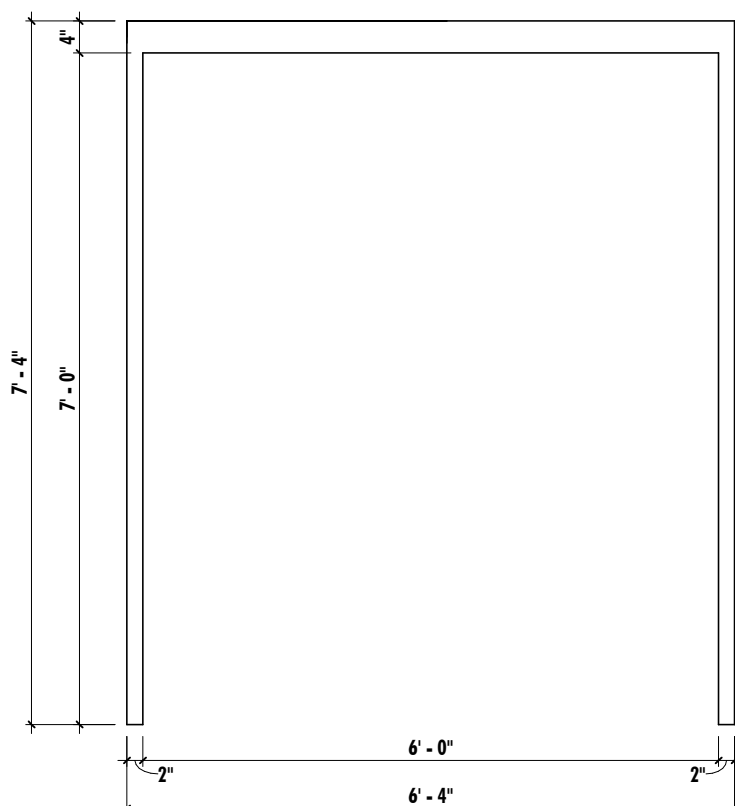
SCHEDULE - DOOR																	
MARK	DOOR PANEL				FRAME					DETAILS			HARDWARE SET				
	SIZE	TYPE	THICKNESS	MATERIAL	FINISH	FRAME TYPE	OVERALL HEIGHT	OVERALL WIDTH	HEAD	JAMB	DEPTH	MATERIAL		FINISH	HEAD	JAMB	THRESHOLD
102A	(2) 3'-0" x 7'-0"	PANEL : F	1 3/4"	INSULATED HOLLOW METAL	H.P.C. PAINT	HM ST	7'-4"	6'-4"	4"	2"	5 7/8"	HOLLOW METAL	H.P.C. PAINT	H1	J1	T1	1

SCHEDULE - LOUVERS									
MARK	OPERATION	WIDTH	HEIGHT	SILL HEIGHT	HEAD	JAMB	SILL	REMARKS	
L1	FIXED	2'-8"	2'-8"	0'-8"	H2	J2	S1	PREFINISHED	
L2	FIXED	4'-0"	1'-4"	11'-4"	H2	J2	S1	PREFINISHED	

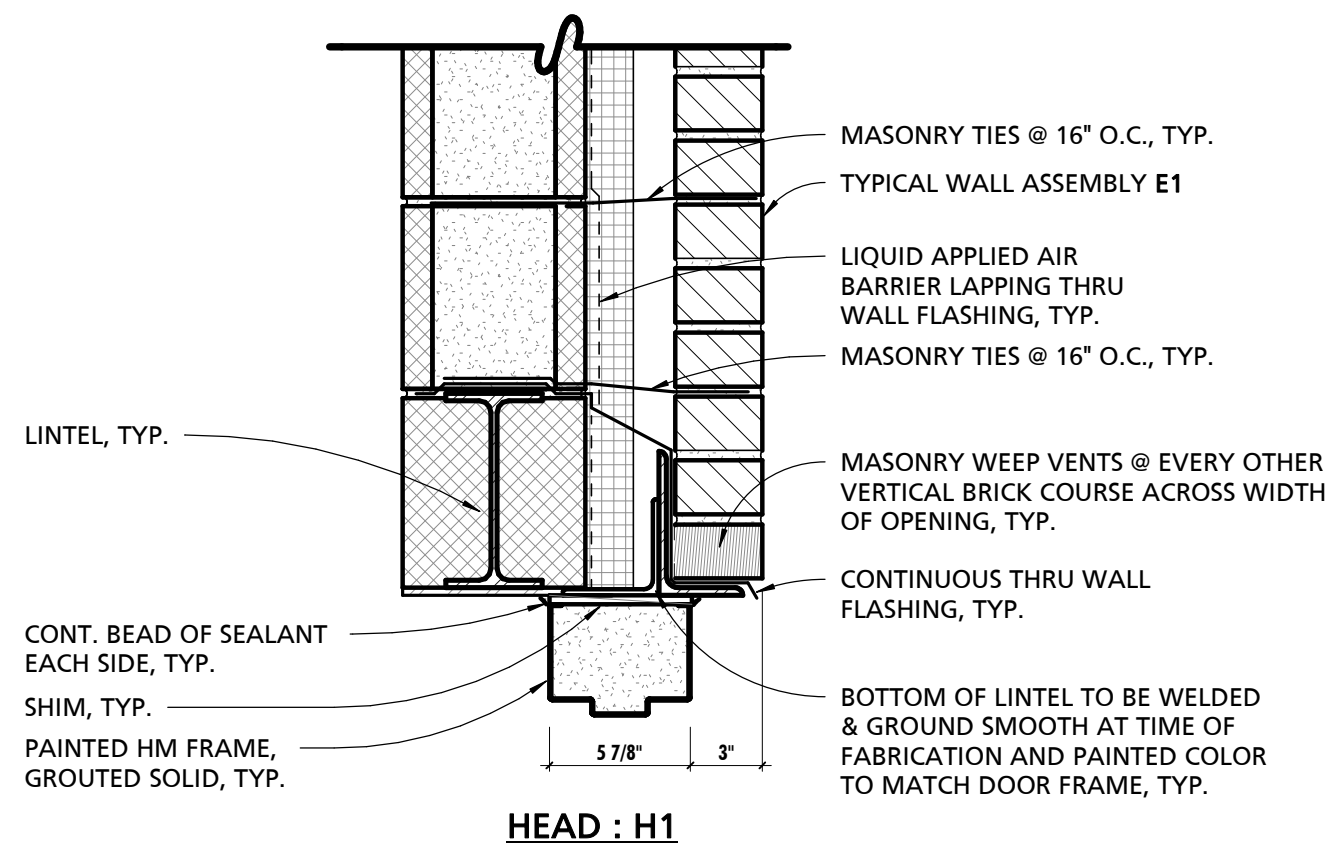
SCHEDULE - DOOR HARDWARE		
SET No.	DESCRIPTION	NOTES
1	DOUBLE EXTERIOR DOOR DOORS: 102A <ul style="list-style-type: none"> • (6) BUTT HINGES • (1) MORTISE LOCKSET W/ ADA LEVER - STOREROOM FUNCTION - ACTIVE LEAF • (2) FLUSH BOLTS - INACTIVE LEAF • (1) THERMALLY BROKEN, ADA COMPLIANT ALUMINUM THRESHOLD • (1) SET PERIMETER GASKETING • (2) DOOR SWEEP • (1) DRIP CAP • (2) KICK PLATES (PUSH SIDE, EACH DOOR) 	FUNCTIONAL NARRATIVE: DOUBLE DOOR - LOCKSET W/ STOREROOM FUNCTION ON ACTIVE LEAF. SECURE SIDE UNLOCKED BY KEY. SECURE SIDE LEVER ALWAYS RIGID. INTERIOR LEVER PROVIDES FREE EGRESS AT ALL TIMES. FLUSH BOLTS ON INACTIVE LEAF.



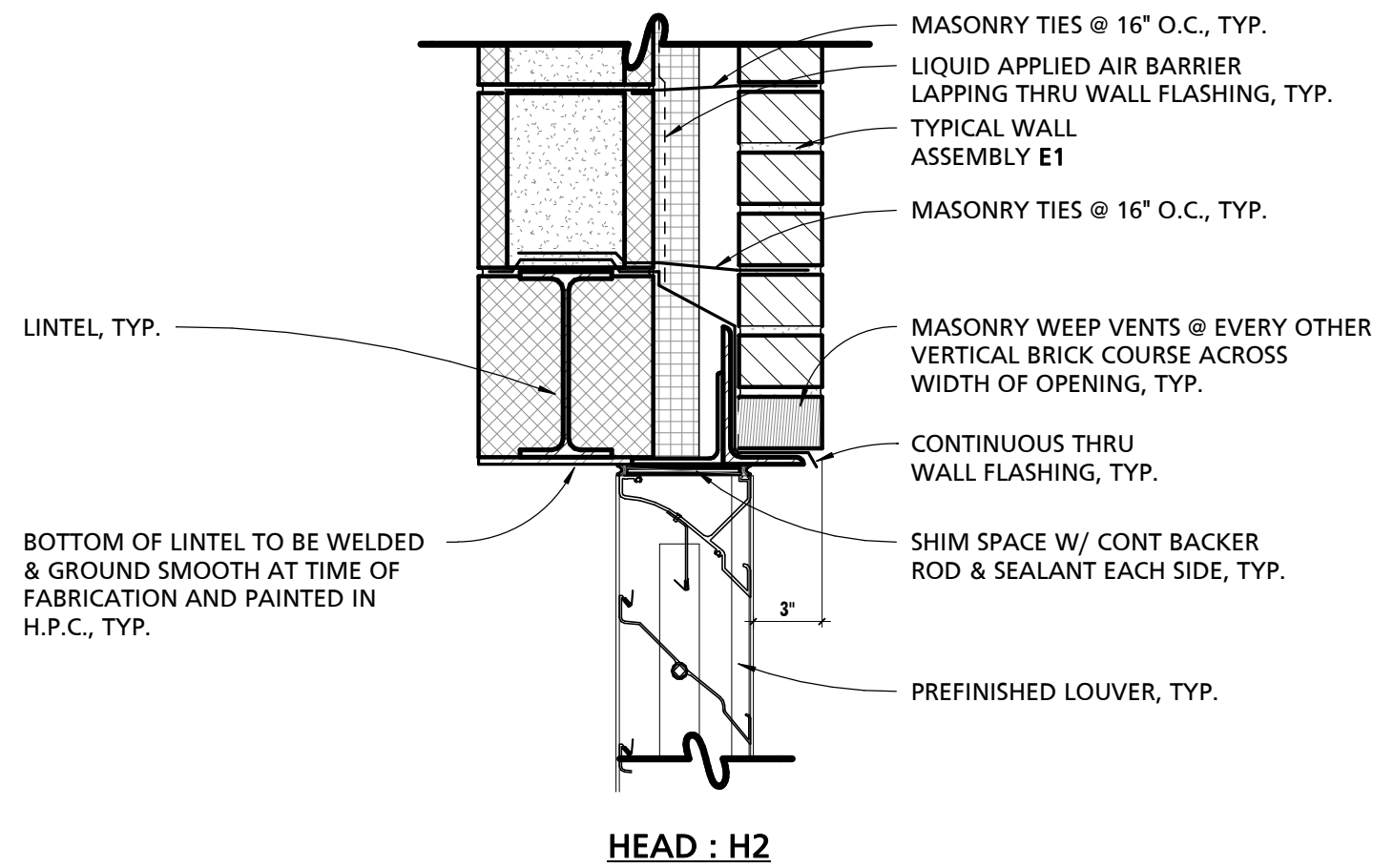
F
DOOR PANEL TYPES
1/2" = 1'-0"



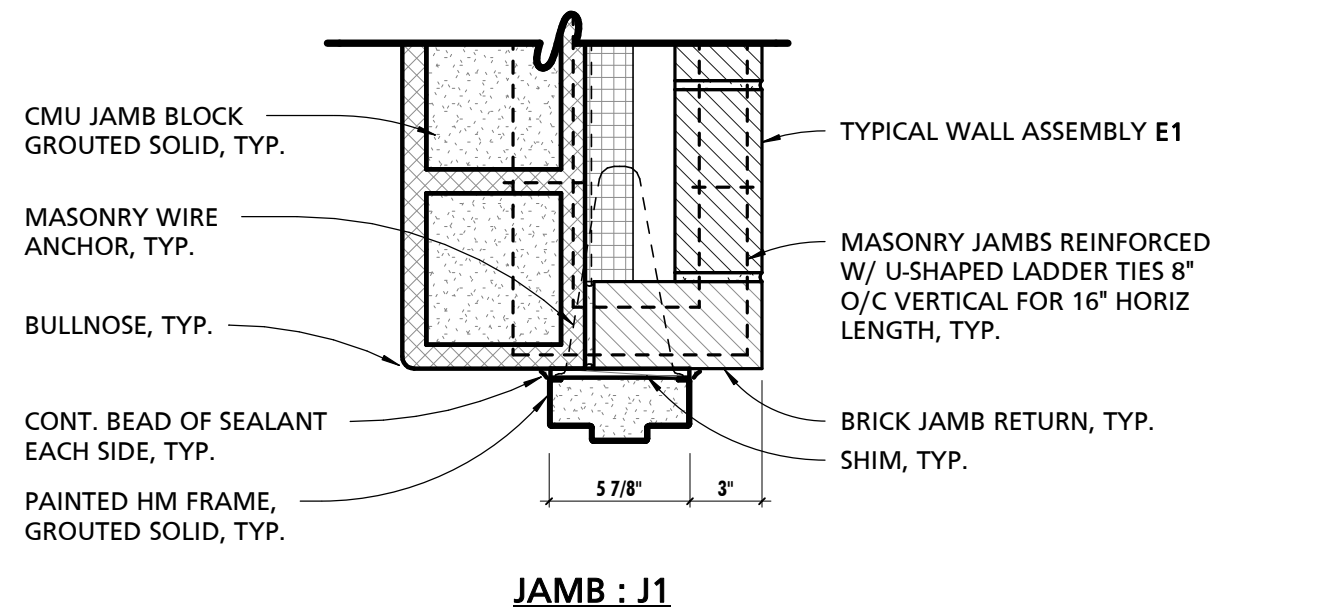
HM ST HOLLOW METAL STANDARD FRAME
DOOR FRAME TYPES
1/2" = 1'-0"



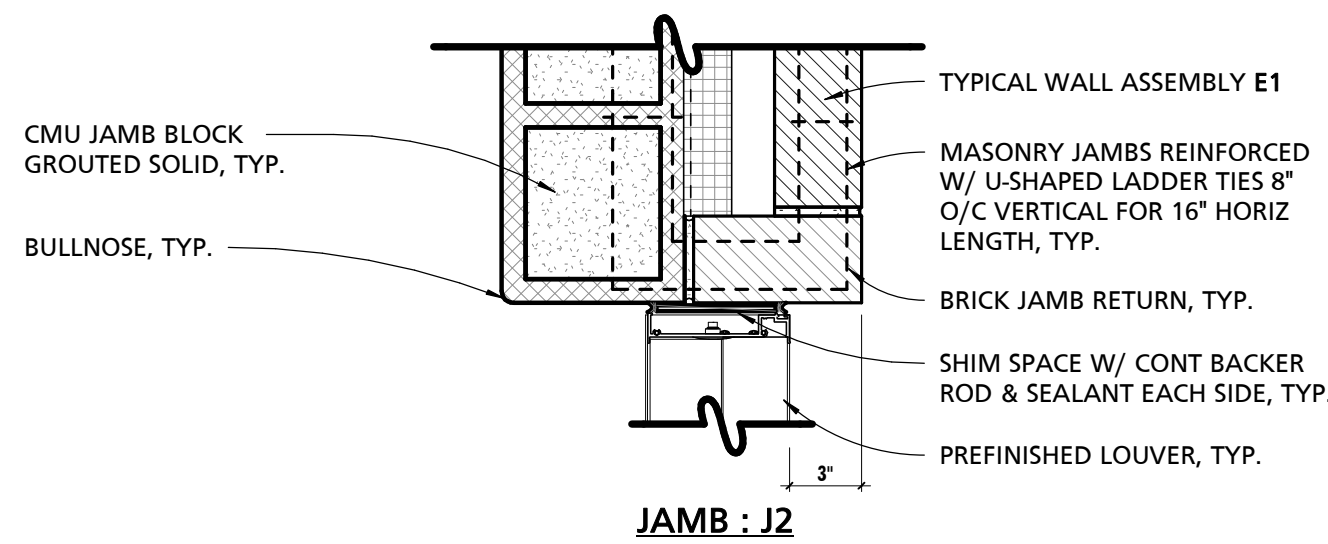
HEAD : H1



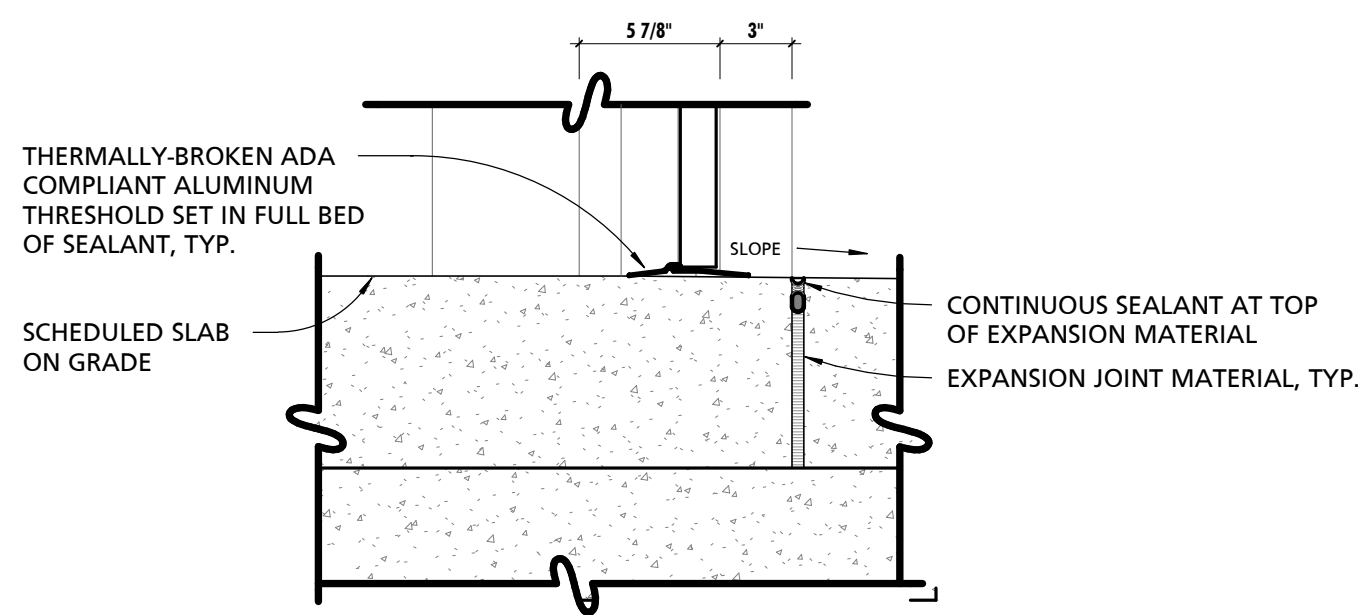
HEAD : H2



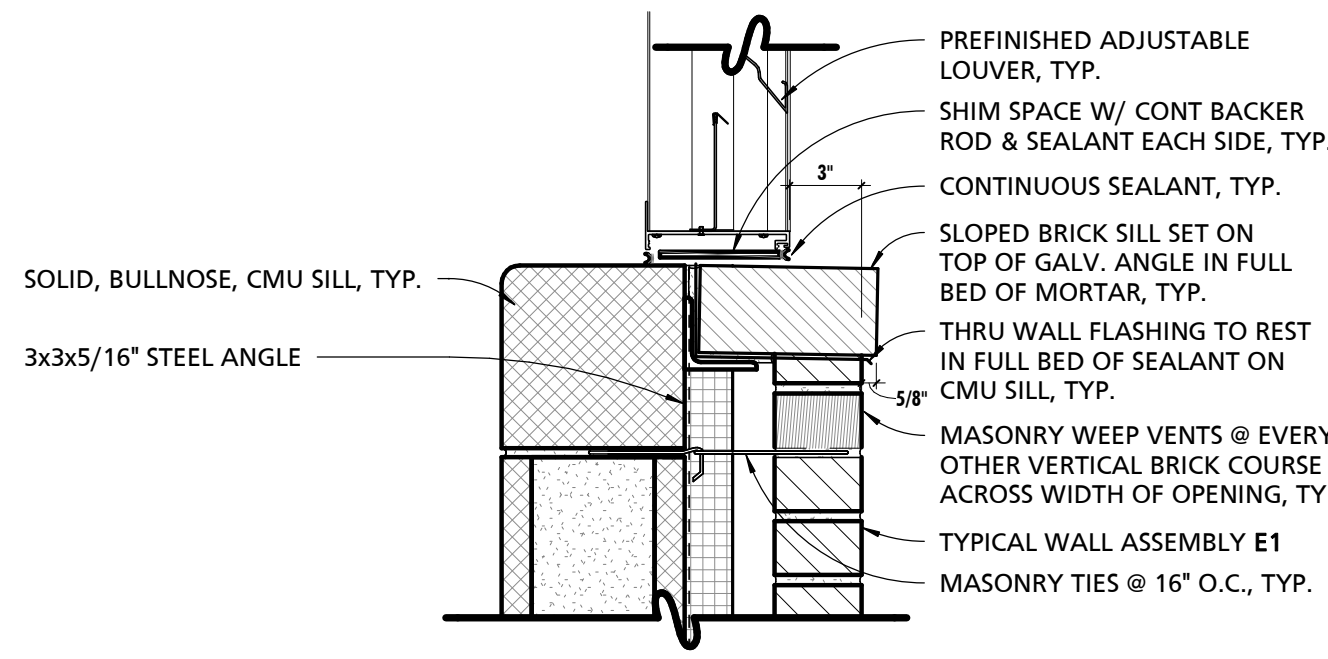
JAMB : J1



JAMB : J2



THRESHOLD : T1



SILL : S1

1 **OPENING DETAILS**
1 1/2" = 1'-0"

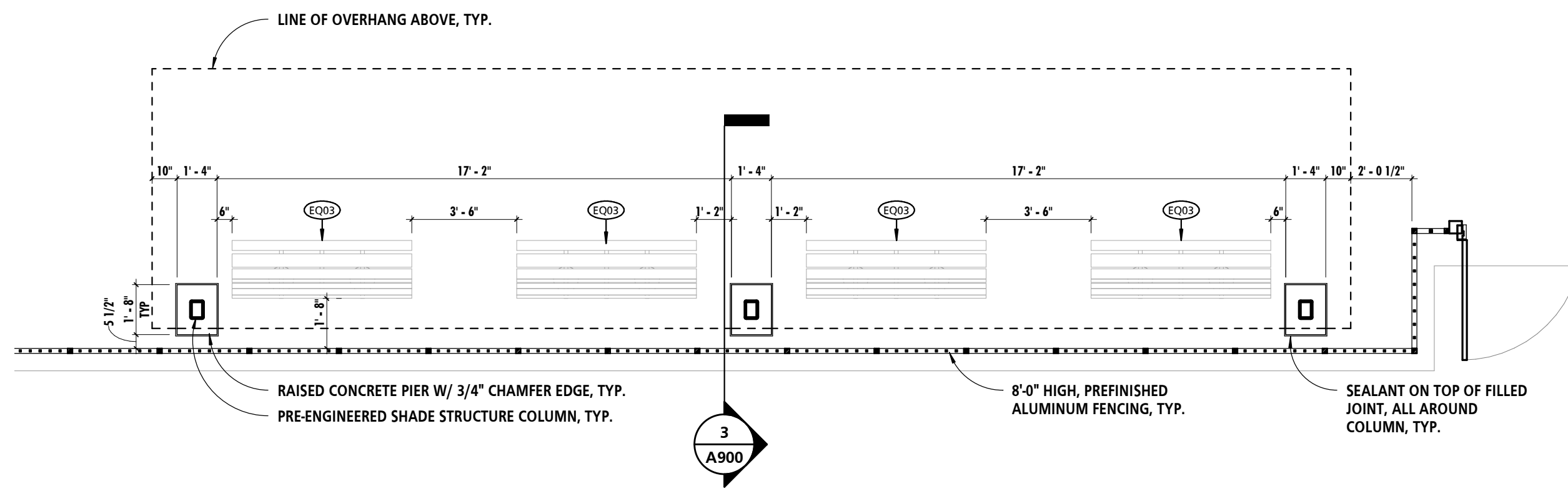
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024
ARCHITECT: DAVID WOODWARD, AIA
PRINCIPAL ARCHITECT
MANN'S WOODWARD STUDIOS
6000 SANDPIPER CIRCLE, SUITE 111
NOTTINGHAM, MARYLAND 21296
P: 410-444-1400

SEAL
DGN BY: _____
DWN BY: _____
CHD BY: _____
DATE: _____

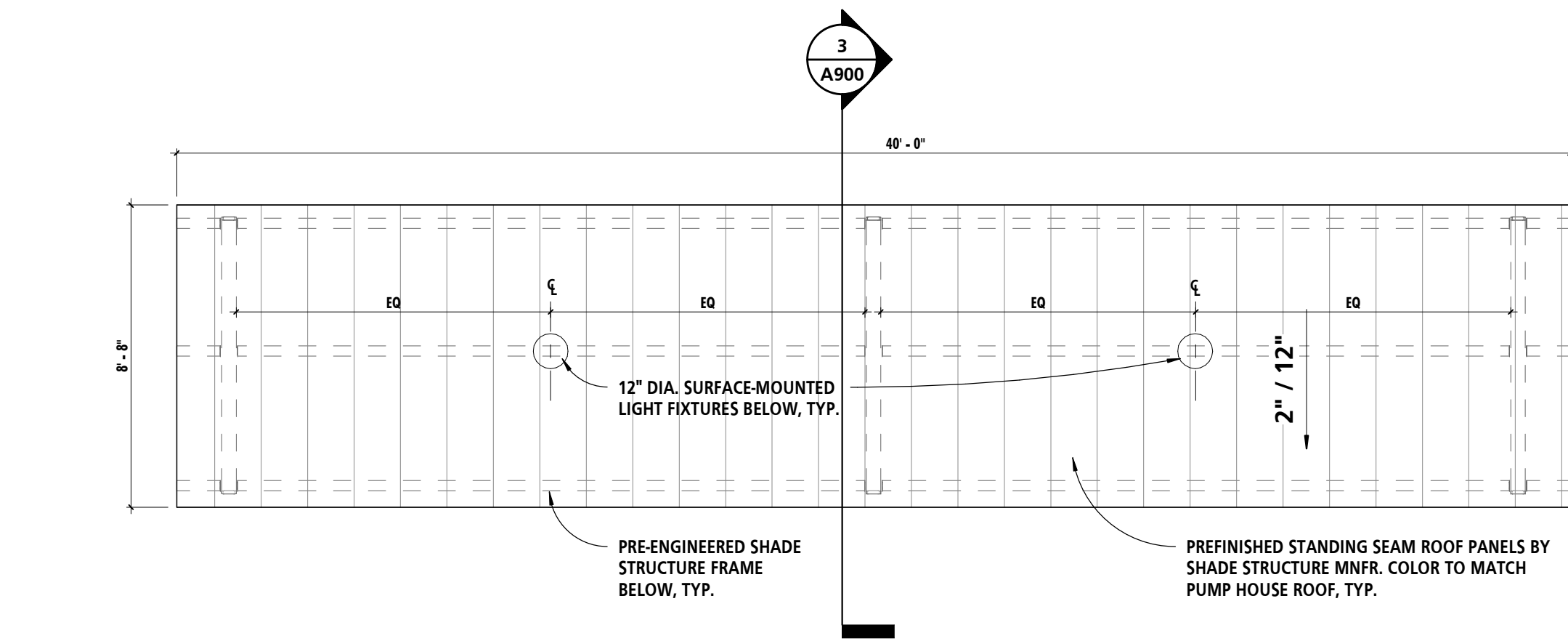
REVISION			
NO.	DESCRIPTION	BY	DATE
60%	DESIGN DEVELOPMENT		09/06/2023
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
_____ CHIEF ENGINEER	_____ DATE	_____ PROJECT MANAGER	_____ DATE
_____ APPROVED	_____ DATE	_____ CHIEF, RIGHT OF WAY SERVICES	_____ DATE
_____ ASSISTANT CHIEF ENGINEER	_____ DATE	_____ PROPOSAL NO.: P570003	_____ DATE

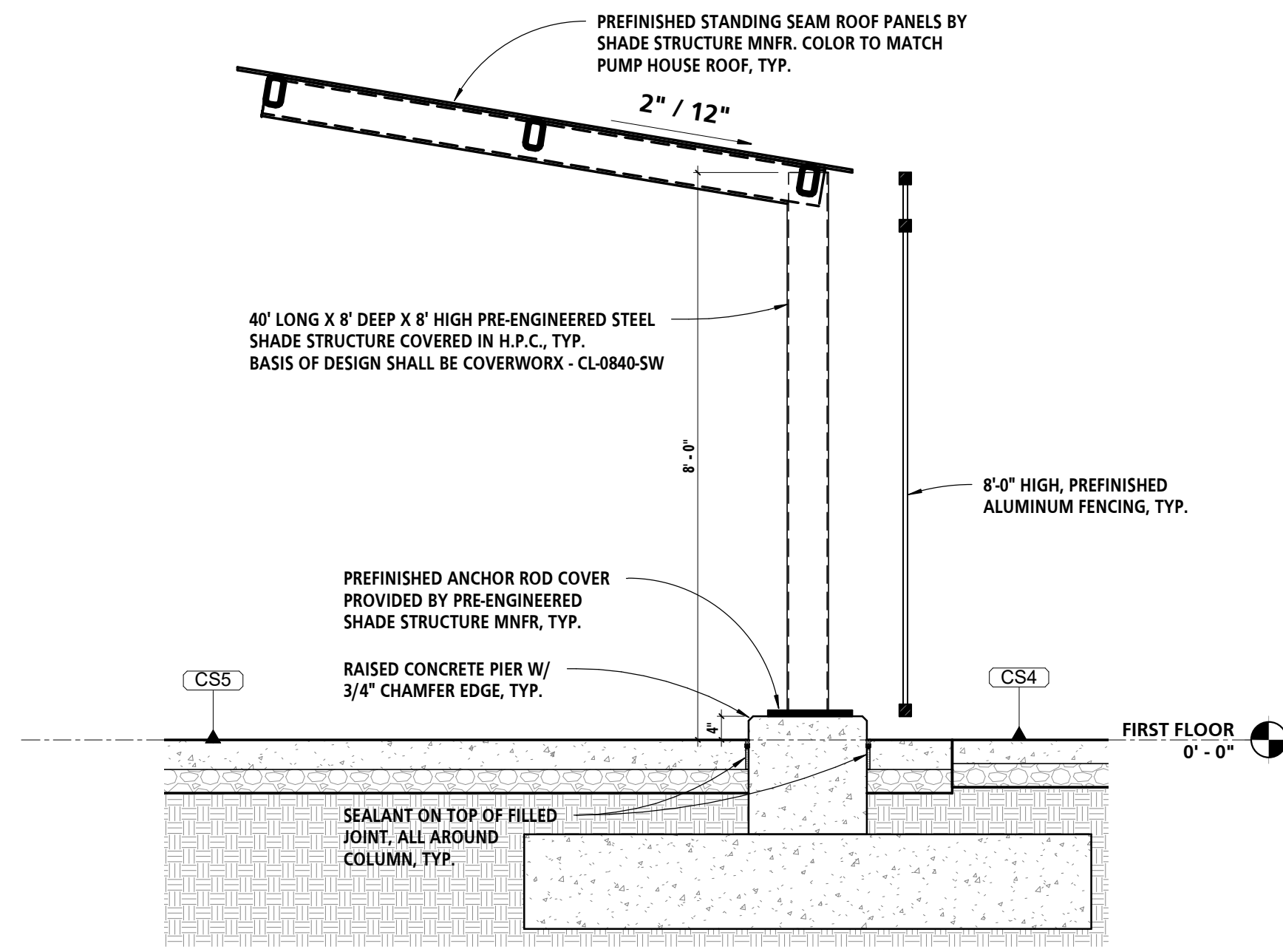
ARCHITECTURAL
N. ARUNDEL SWM CT-SPLASH PADS
ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS
A600
PUMP HOUSE OPENING TYPES & DETAILS



1 CANOPY PLAN - POST DIMENSION PLAN
1/4" = 1'-0"



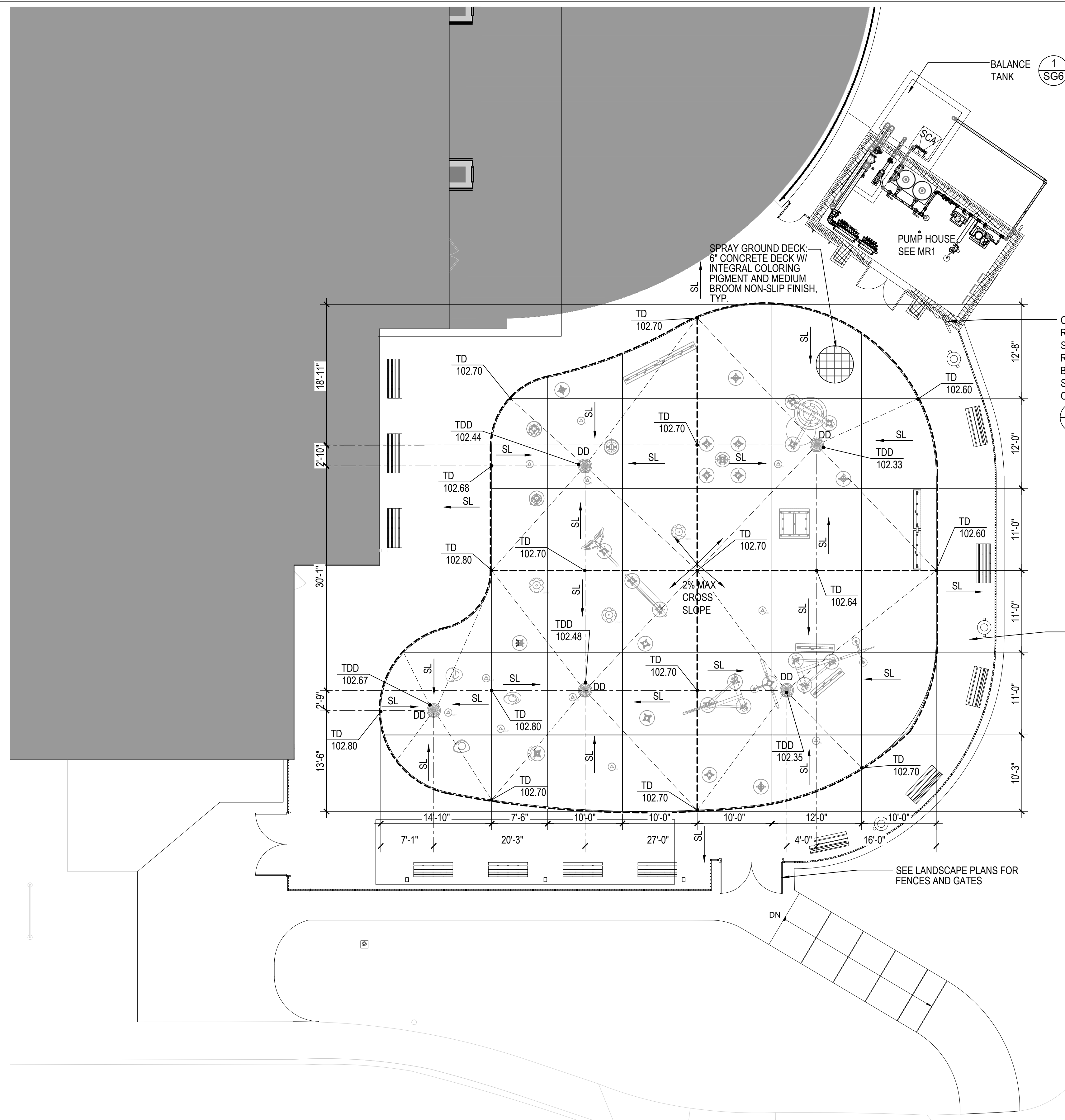
2 PRE-ENGINEERED SHADE STRUCTURE ROOF PLAN
1/4" = 1'-0"



3 CANOPY SECTION
1/2" = 1'-0"

CANOPY NOTE:
CANOPY IS PRE-ENGINEERED AND DELEGATED DESIGN. CONTRATOR SHALL SUBMIT SIGNED & SEALED SHOP DRAWINGS TO ARCHITECT OF RECORD. SHOP DRAWINGS SHALL BE ENGINEERED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND. DO NOT FABRICATE CANOPY WITHOUT APPROVED SHOP DRAWINGS.

PROFESSIONAL CERTIFICATION		REVISION				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024		NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS 6000 SANDPIPER CTR, SUITE 11 NOTTINGHAM, MARYLAND 21155 (P) 410-241-1000		60%	DESIGN DEVELOPMENT		09/06/2023				
DCN BY: _____	SEAL	90%	CONSTRUCTION DOCUMENTS		12/15/2023	CHIEF ENGINEER	PROJECT MANAGER	SCALE:	ARCHITECTURAL
DWN BY: _____		100%	CONSTRUCTION DOCUMENTS		07/01/2024	APPROVED	APPROVED	DRAWN BY:	
CHRD BY: _____						DATE	DATE	CHECKED BY:	
DATE: _____								SHEET NO.:	
					ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	PROJECT NO.: P570000	
								PROPOSAL NO.: P570003	



SPRAY GROUND DATA

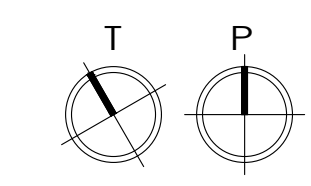
SURFACE AREA	=	3,833 SQ. FT.
PERIMETER	=	237 FT.
DEPTH	=	0'-0"
VOLUME	=	4,069 GAL.
30MIN TURNOVER	=	135 GPM

LEGEND

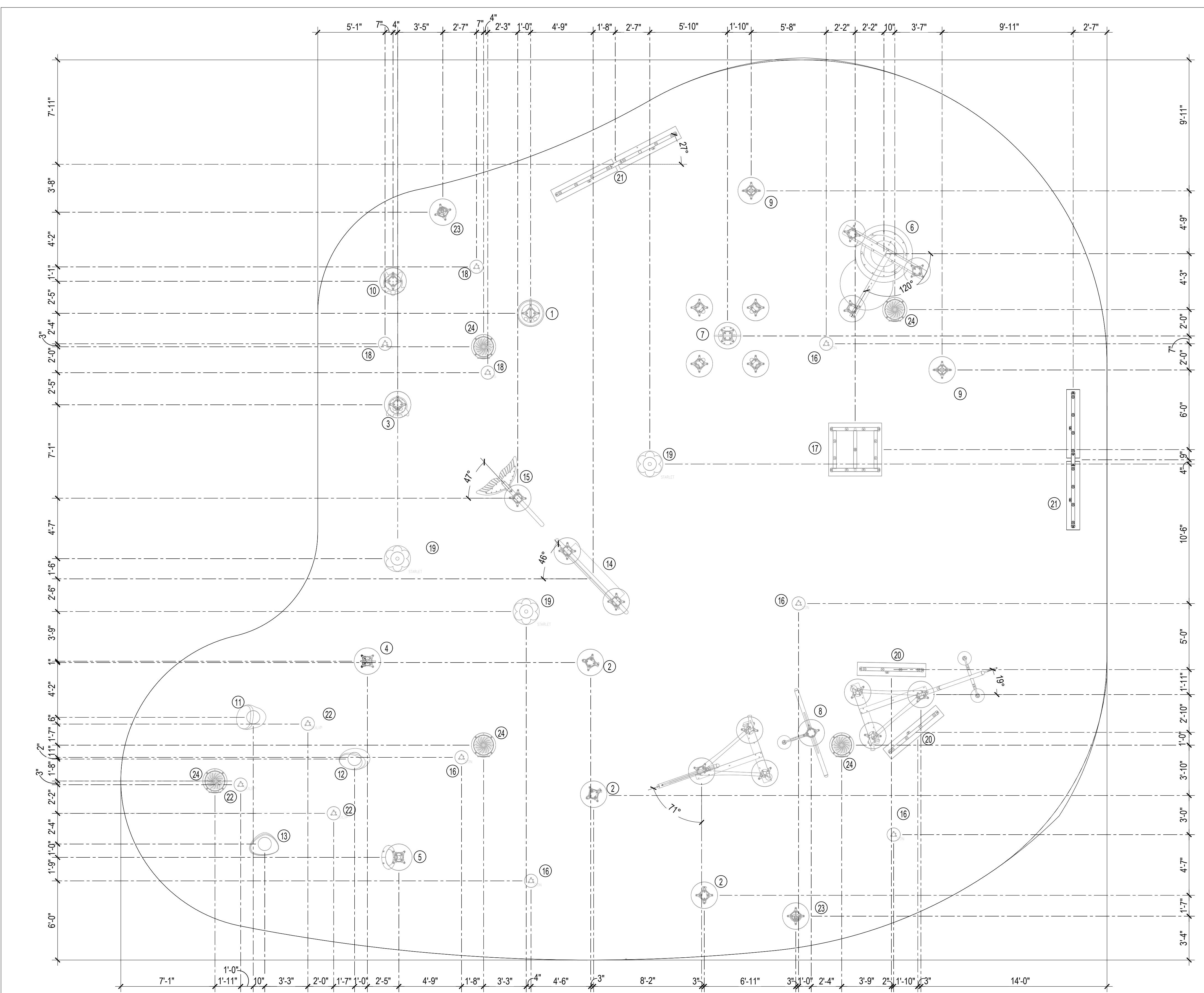
---EJ---	=	EXPANSION JOINT	1 SG4
—CJ—	=	CONTROL JOINT	1 SG4
TDD	=	TOP OF DECK DRAIN	
TD	=	TOP OF DECK	
SL	=	SLOPE	
SCA	=	BALANCE TANK ACCESS	2 SG6
DD	=	DECK DRAIN	3 SG4

- GENERAL NOTES**
- WET DECK SHALL HAVE NON-SLIP MEDIUM BROOM FINISH AND SHALL HAVE 1% MIN. SLOPE AND 2% MAX. SLOPE TO DRAINS.
 - SEE LANDSCAPE PLANS FOR DRAINAGE AND BENCH DETAILS OUTSIDE THE SPRAY GROUND. ALL DECKS SHALL SLOPE PER CODE WITH A MIN 1% AND MAX 2% DECK SLOPE. SPRAY GROUND CONCRETE DECK SHALL BE 6" THICK WITH #4 @ 12" O.C.E.W. WITH MEDIUM BROOM NON-SLIP FINISH SEE CONCRETE SPECIFICATIONS SECTION 13 11 02.
 - PROVIDE SIGNAGE PER CODE.

1 SPRAY GROUND - AREA PLAN
1/8" = 1'-0"



PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024 ARCHITECT: DAVID WOODWARD, AIA, PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS 60800 PINEBELLE DRIVE WHITE MARSH, MARYLAND 21152 (P) 410-343-1400		SEAL 	REVISION <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>00%</td> <td>DESIGN DEVELOPMENT</td> <td></td> <td>09/06/2022</td> </tr> <tr> <td>90%</td> <td>CONSTRUCTION DOCUMENTS</td> <td></td> <td>12/15/2023</td> </tr> <tr> <td>100%</td> <td>CONSTRUCTION DOCUMENTS</td> <td></td> <td>07/01/2024</td> </tr> </tbody> </table>	NO.	DESCRIPTION	BY	DATE	00%	DESIGN DEVELOPMENT		09/06/2022	90%	CONSTRUCTION DOCUMENTS		12/15/2023	100%	CONSTRUCTION DOCUMENTS		07/01/2024	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS ARCHITECTURAL NORTH ARUNDEL SWIM CENTER - SPLASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS SG1 SPRAY GROUND AREA PLAN	<table border="1"> <tr> <td>APPROVED</td> <td>DATE</td> <td>APPROVED</td> <td>DATE</td> </tr> <tr> <td>CHIEF ENGINEER</td> <td></td> <td>PROJECT MANAGER</td> <td></td> </tr> <tr> <td>APPROVED</td> <td>DATE</td> <td>APPROVED</td> <td>DATE</td> </tr> <tr> <td>ASSISTANT CHIEF ENGINEER</td> <td></td> <td>CHIEF, RIGHT OF WAY SERVICES</td> <td></td> </tr> </table>	APPROVED	DATE	APPROVED	DATE	CHIEF ENGINEER		PROJECT MANAGER		APPROVED	DATE	APPROVED	DATE	ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES		<table border="1"> <tr> <td>SCALE: AS INDICATED</td> </tr> <tr> <td>DRAWN BY:</td> </tr> <tr> <td>CHECKED BY:</td> </tr> <tr> <td>SHEET NO.:</td> </tr> <tr> <td>PROJECT NO.: P570000</td> </tr> <tr> <td>PROPOSAL NO.: P570003</td> </tr> </table>	SCALE: AS INDICATED	DRAWN BY:	CHECKED BY:	SHEET NO.:	PROJECT NO.: P570000	PROPOSAL NO.: P570003
NO.	DESCRIPTION	BY	DATE																																									
00%	DESIGN DEVELOPMENT		09/06/2022																																									
90%	CONSTRUCTION DOCUMENTS		12/15/2023																																									
100%	CONSTRUCTION DOCUMENTS		07/01/2024																																									
APPROVED	DATE	APPROVED	DATE																																									
CHIEF ENGINEER		PROJECT MANAGER																																										
APPROVED	DATE	APPROVED	DATE																																									
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES																																										
SCALE: AS INDICATED																																												
DRAWN BY:																																												
CHECKED BY:																																												
SHEET NO.:																																												
PROJECT NO.: P570000																																												
PROPOSAL NO.: P570003																																												



SPRAY GROUND DATA

SURFACE AREA = 3,833 SQ. FT.
 PERIMETER = 237 FT.
 DEPTH = 0'-0"
 VOLUME = 4,069 GAL.
 30MIN TURNOVER = 135 GPM

SPRAY GROUND PRODUCT LEGEND				
	PRODUCT CODE	QTY	TOTAL GPM	DETAIL
①	BLOW FISH (0011-0885) - 'WATERPLAY'	1	3	① SG8
②	CARRONADE (0010-0428) - 'WATERPLAY'	3	18	② SG8
③	CRABBIE 1 (0011-0590) - 'WATERPLAY'	1	14	③ SG8
④	FISH (0010-9269) - 'WATERPLAY'	1	14	④ SG8
⑤	MAGNIF-EYE (0010-0497) - 'WATERPLAY'	1	3	⑤ SG10
⑥	MEGA SOAKER (0010-3618) - 'WATERPLAY'	1	40	⑥ SG9
⑦	OCTOPUS (0010-0602) - 'WATERPLAY'	1	12	⑦ SG10
⑧	SCHOONER 2 (0010-3705) - 'WATERPLAY'	1	59	⑧ SG11
⑨	SHARK (0011-0096) - 'WATERPLAY'	2	4	⑨ SG10
⑩	SNAPPER 1 (0011-0589) - 'WATERPLAY'	1	14	⑩ SG10
⑪	SURF STONE 1 (0010-7471) - 'WATERPLAY'	1	5	⑪ SG10
⑫	SURF STONE 2 (0010-7472) - 'WATERPLAY'	1	5	⑫ SG10
⑬	SURF STONE 3 (0010-7473) - 'WATERPLAY'	1	5	⑬ SG10
⑭	WATER-O (0010-0369) - 'WATERPLAY'	1	10	⑭ SG8
⑮	WHALE TAIL (0010-8038) - 'WATERPLAY'	1	10	⑮ SG11
⑯	CONFETTI SPRAY (0010-7476) - 'WATERPLAY'	5	25	⑯ SG8
⑰	GROUP VOLCANO (0010-7495) - 'WATERPLAY'	1	10	⑰ SG8
⑱	MONSTER 5 (0010-7480) - 'WATERPLAY'	3	30	⑱ SG8
⑲	LILY PAD STARLET SPRAY (0010-7491) - 'WATERPLAY'	3	15	⑲ SG8
⑳	SPRAY TUNNEL 4 THE WAVE (0010-7496) - 'WATERPLAY'	2	24	⑳ SG9
㉑	SPRAY TUNNEL 8 WAVE (0010-7497) - 'WATERPLAY'	2	48	㉑ SG9
㉒	TULIP (0010-7489) - 'WATERPLAY'	3	18	㉒ SG8
㉓	ACTIVATOR: POWER POST (0010-1854) - 'WATERPLAY'	2		㉓ SG7
㉔	DRAIN CIRCULAR STAINLESS STEEL (0010-4133) - 'WATERPLAY'	5		㉔ SG4
TOTAL			386 GPM	

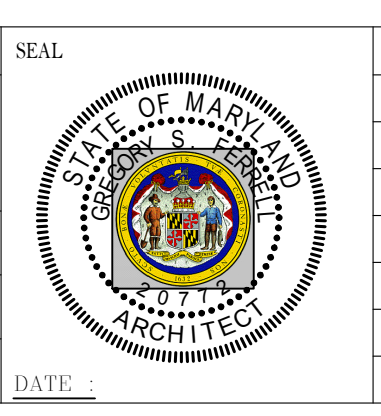
1 SPRAY GROUND LAYOUT
 1/4" = 1'-0"

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024

ARCHITECT:
 DAVID WOODWARD, AIA
 PRINCIPAL ARCHITECT

DGN BY: _____
 DWN BY: _____
 CHKD BY: _____

MANNS WOODWARD STUDIOS
 6880 PINE LAKE DRIVE
 WHITE MARSH, MARYLAND 21152
 (410) 341-1000



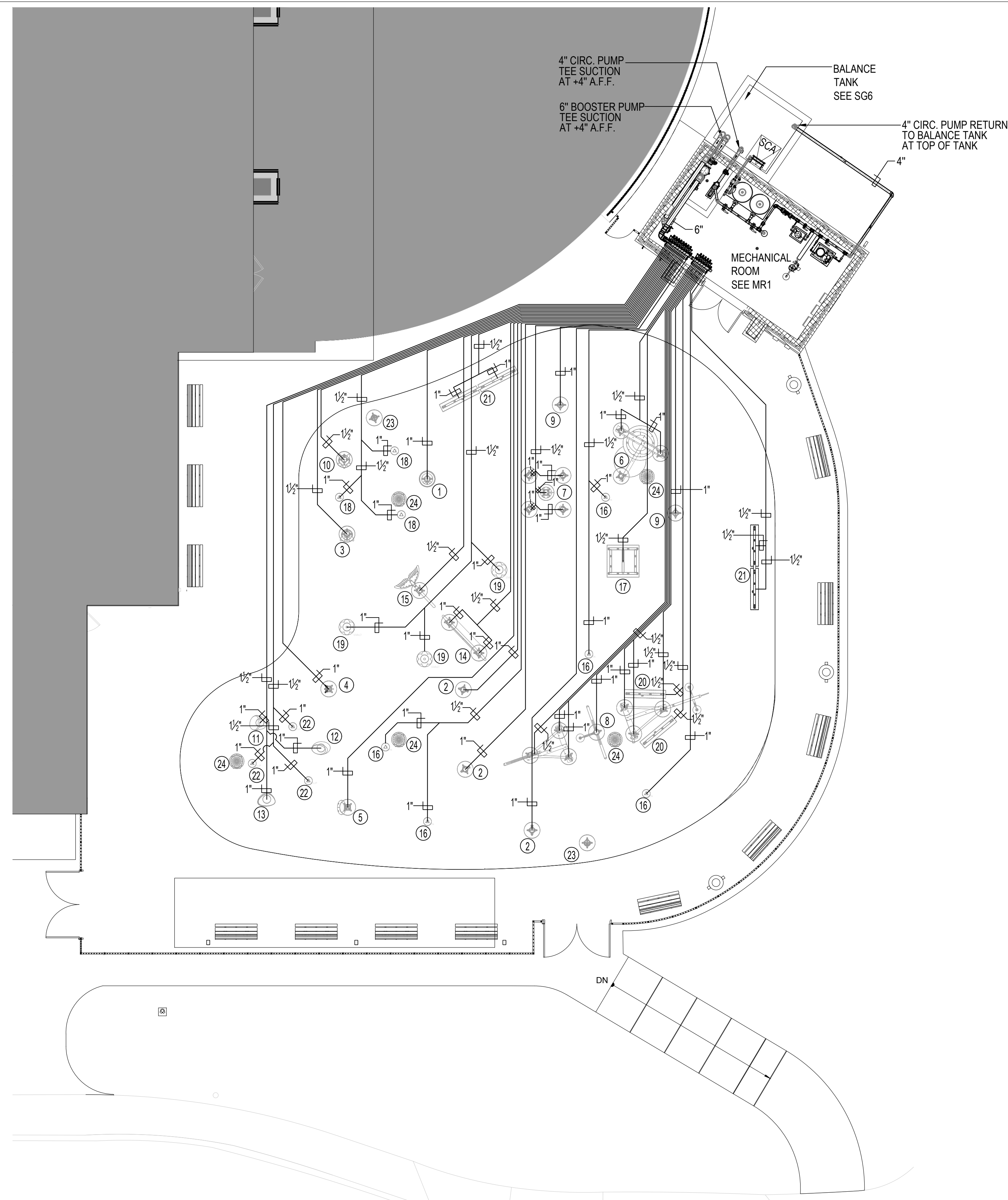
REVISION			
NO.	DESCRIPTION	BY	DATE
001	60% DESIGN DEVELOPMENT		09/06/2022
002	90% CONSTRUCTION DOCUMENTS		12/15/2023
003	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

ARCHITECTURAL

NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

SG2
 SPRAY GROUND LAYOUT PLAN

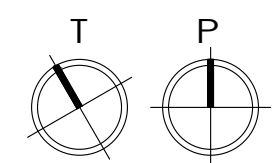


SPRAY GROUND PRODUCT LEGEND				
	PRODUCT CODE	QTY	TOTAL GPM	DETAIL
①	BLOW FISH (0011-0885) - 'WATERPLAY'	1	3	① SG8
②	CARRONADE (0010-0428) - 'WATERPLAY'	3	18	② SG8
③	CRABBIE 1 (0011-0590) - 'WATERPLAY'	1	14	③ SG8
④	FISH (0010-9269) - 'WATERPLAY'	1	14	④ SG8
⑤	MAGNIF-EYE (0010-0497) - 'WATERPLAY'	1	3	⑤ SG10
⑥	MEGA SOAKER (0010-3618) - 'WATERPLAY'	1	40	⑥ SG9
⑦	OCTOPUS (0010-0602) - 'WATERPLAY'	1	12	⑦ SG10
⑧	SCHOONER 2 (0010-3705) - 'WATERPLAY'	1	59	⑧ SG11
⑨	SHARK (0011-0096) - 'WATERPLAY'	2	4	⑨ SG10
⑩	SNAPPER 1 (0011-0589) - 'WATERPLAY'	1	14	⑩ SG10
⑪	SURF STONE 1 (0010-7471) - 'WATERPLAY'	1	5	⑪ SG10
⑫	SURF STONE 2 (0010-7472) - 'WATERPLAY'	1	5	⑫ SG10
⑬	SURF STONE 3 (0010-7473) - 'WATERPLAY'	1	5	⑬ SG10
⑭	WATER-O (0010-0369) - 'WATERPLAY'	1	10	⑭ SG8
⑮	WHALE TAIL (0010-8038) - 'WATERPLAY'	1	10	⑮ SG11
⑯	CONFETTI SPRAY (0010-7476) - 'WATERPLAY'	5	25	⑯ SG8
⑰	GROUP VOLCANO (0010-7495) - 'WATERPLAY'	1	10	⑰ SG8
⑱	MONSTER 5 (0010-7480) - 'WATERPLAY'	3	30	⑱ SG8
⑲	LILY PAD STARLET SPRAY (0010-7491) - 'WATERPLAY'	3	15	⑲ SG8
⑳	SPRAY TUNNEL 4 THE WAVE (0010-7496) - 'WATERPLAY'	2	24	⑳ SG9
㉑	SPRAY TUNNEL 8 WAVE (0010-7497) - 'WATERPLAY'	2	48	㉑ SG9
㉒	TULIP (0010-7489) - 'WATERPLAY'	3	18	㉒ SG8
㉓	ACTIVATOR: POWER POST (0010-1854) - 'WATERPLAY'	2		㉓ SG7
㉔	DRAIN CIRCULAR STAINLESS STEEL (0010-4133) - 'WATERPLAY'	5		㉔ SG4
TOTAL			386 GPM	

SPRAY GROUND DATA		
SURFACE AREA	=	3,833 SQ. FT.
PERIMETER	=	237 FT.
DEPTH	=	0'-0"
VOLUME	=	4,069 GAL.
30MIN TURNOVER (PER ISPSC 612.5.2)	=	135 GPM

SPRAY GROUND BALANCE TANK DATA		
BOOSTER PUMP RATE	=	386 GPM
386 GPM X 10 (PER ISPSC 612.5.1)	=	3,860 GAL.
8'-0" X 8'-0" X 9'-6" BALANCE TANK CAPACITY	=	4,547 GAL.
4,547 GAL. > 3,860 GAL. + 15% = 4,439 GAL.		OK
(PER ISPSC 612.5.1)		

1 SPRAY GROUND - PLUMBING PLAN
1/8" = 1'-0"



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024

ARCHITECT:
DAVID WOODWARD, AIA
PRINCIPAL ARCHITECT
MANN'S WOODWARD STUDIOS
60800 PHILADELPHIA ROAD
WHITE MARSH, MARYLAND 21152
(P) 410-343-1400

DGN BY: _____
DWN BY: _____
CHKD BY: _____
DATE: _____



REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

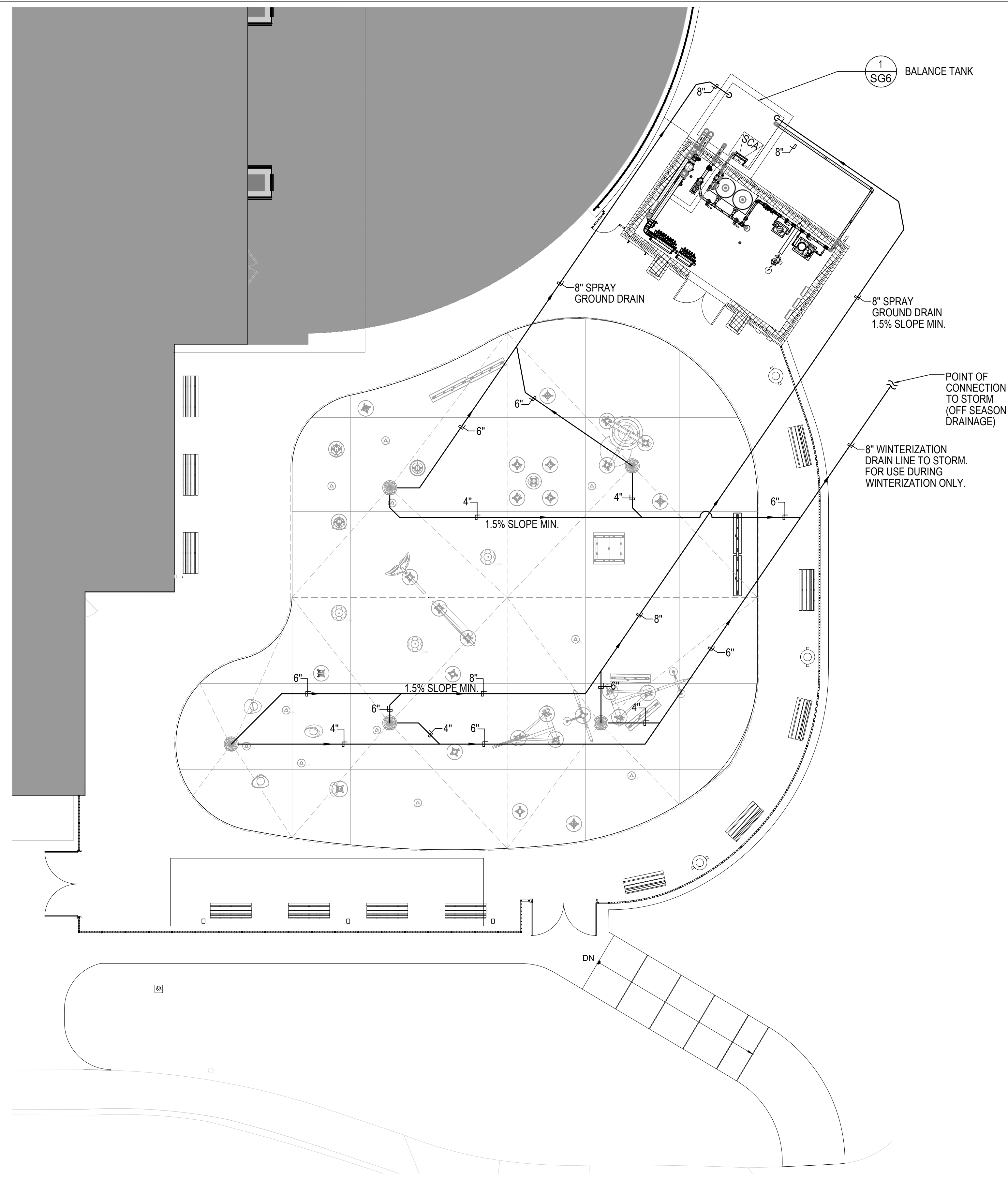
ARCHITECTURAL

NORTH ARUNDEL SWIM CENTER - SPLASH PADS
ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

SG3
SPRAY GROUND PLUMBING PLAN

SCALE: AS INDICATED
DRAWN BY: _____
CHECKED BY: _____
SHEET NO.: _____
PROJECT NO.: P570000
PROPOSAL NO.: P570003

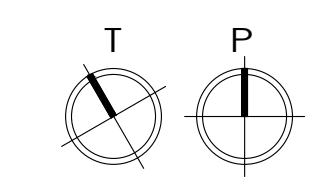
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.



SPRAY GROUND DATA		
SURFACE AREA	=	3,833 SQ. FT.
PERIMETER	=	237 FT.
DEPTH	=	0'-0"
VOLUME	=	4,069 GAL.
30MIN TURNOVER	=	135 GPM

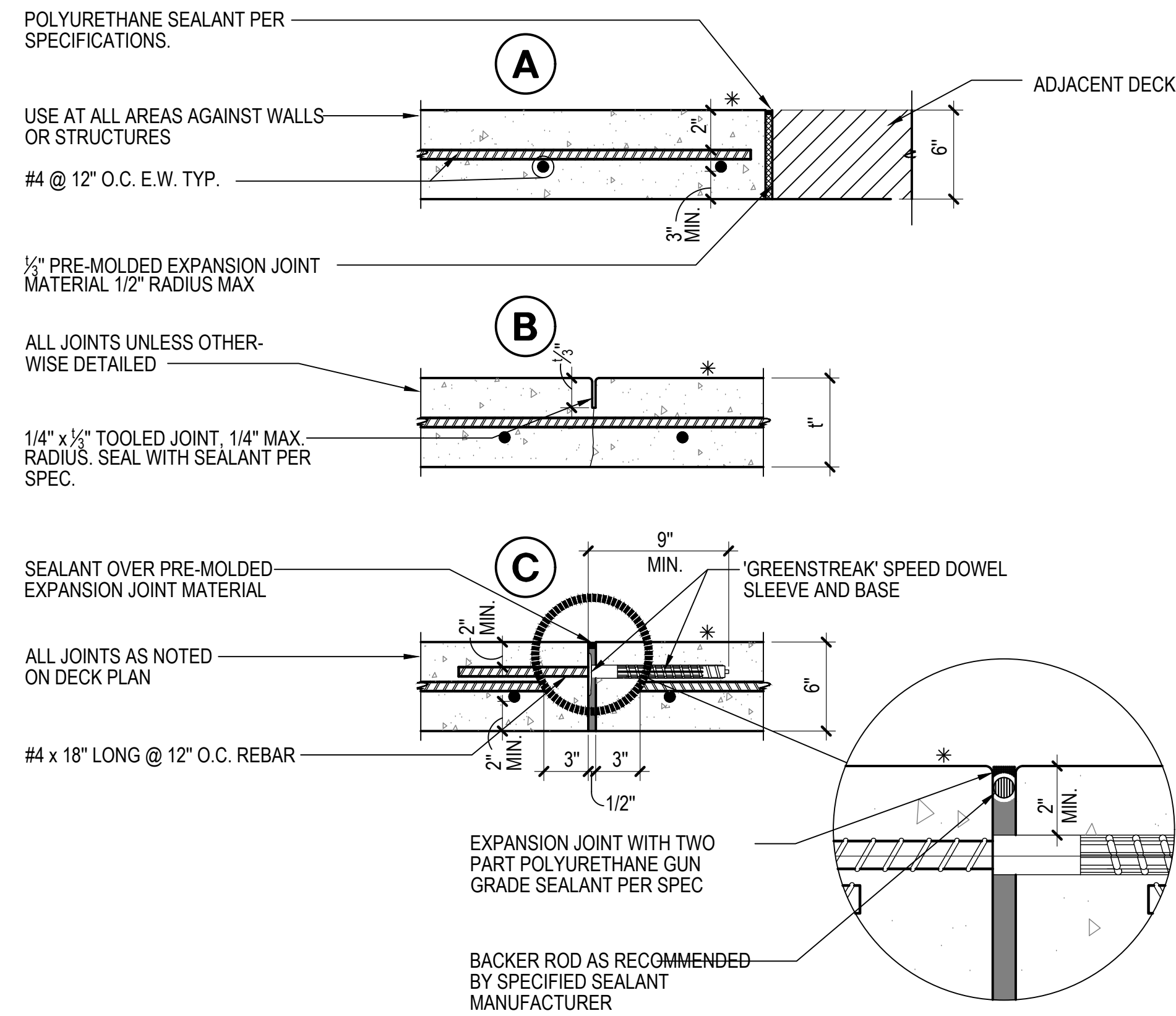
SPRAY GROUND BALANCE TANK DATA		
BOOSTER PUMP RATE	=	386 GPM
386 GPM X 10 (PER ISPSC 612.5.1)	=	3,860 GAL.
8'-0" X 8'-0" X 9'-6" BALANCE TANK CAPACITY	=	4,547 GAL.
4,547 GAL. > 3,860 GAL. + 15% = 4,439 GAL.		<u>OK</u>
(PER ISPSC 612.5.1)		

1 SPRAY GROUND - DRAINAGE PLAN
1/8" = 1'-0"

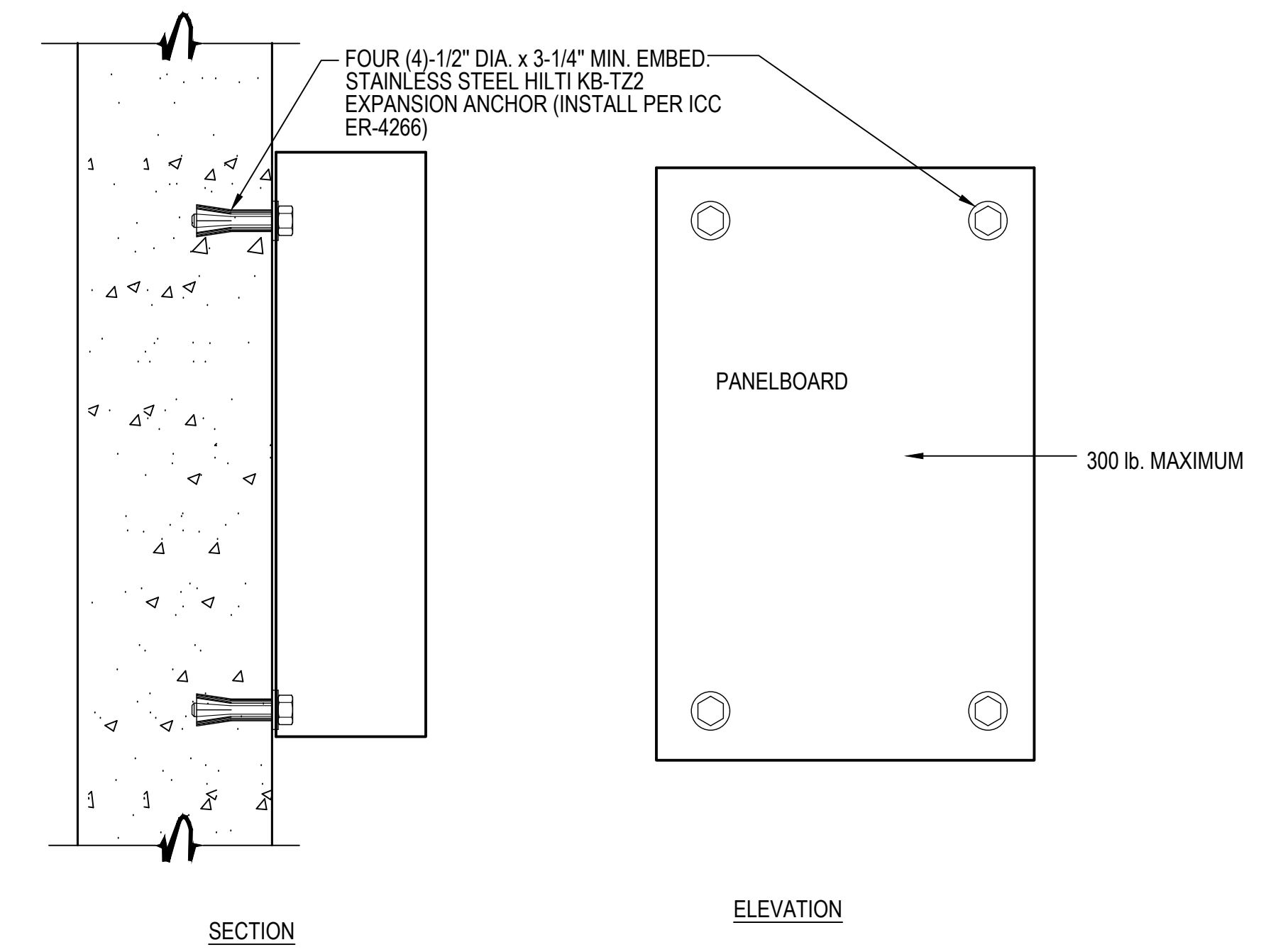


PROFESSIONAL CERTIFICATION		REVISION		ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024 ARCHITECT: DAVID WOODWARD, AIA, PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS, 6080 PHILADELPHIA ROAD, WHITE MARSH, MARYLAND 21152 (P) 410-343-1400 DGN BY: _____ DWN BY: _____ CHKD BY: _____ DATE: _____		NO. DESCRIPTION BY DATE	APPROVED DATE APPROVED DATE	SCALE: AS INDICATED ARCHITECTURAL			
		00% DESIGN DEVELOPMENT 09/06/2022 90% CONSTRUCTION DOCUMENTS 12/15/2023 100% CONSTRUCTION DOCUMENTS 07/01/2024	CHIEF ENGINEER PROJECT MANAGER APPROVED DATE APPROVED DATE	SHEET NO.: _____ PROJECT NO.: P570000 PROPOSAL NO.: P570003			
			ASSISTANT CHIEF ENGINEER CHIEF, RIGHT OF WAY SERVICES	NORTH ARUNDEL SWIM CENTER - SPLASH PADS ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS			
				SG3.1 SPRAY GROUND DRAINAGE PLAN			

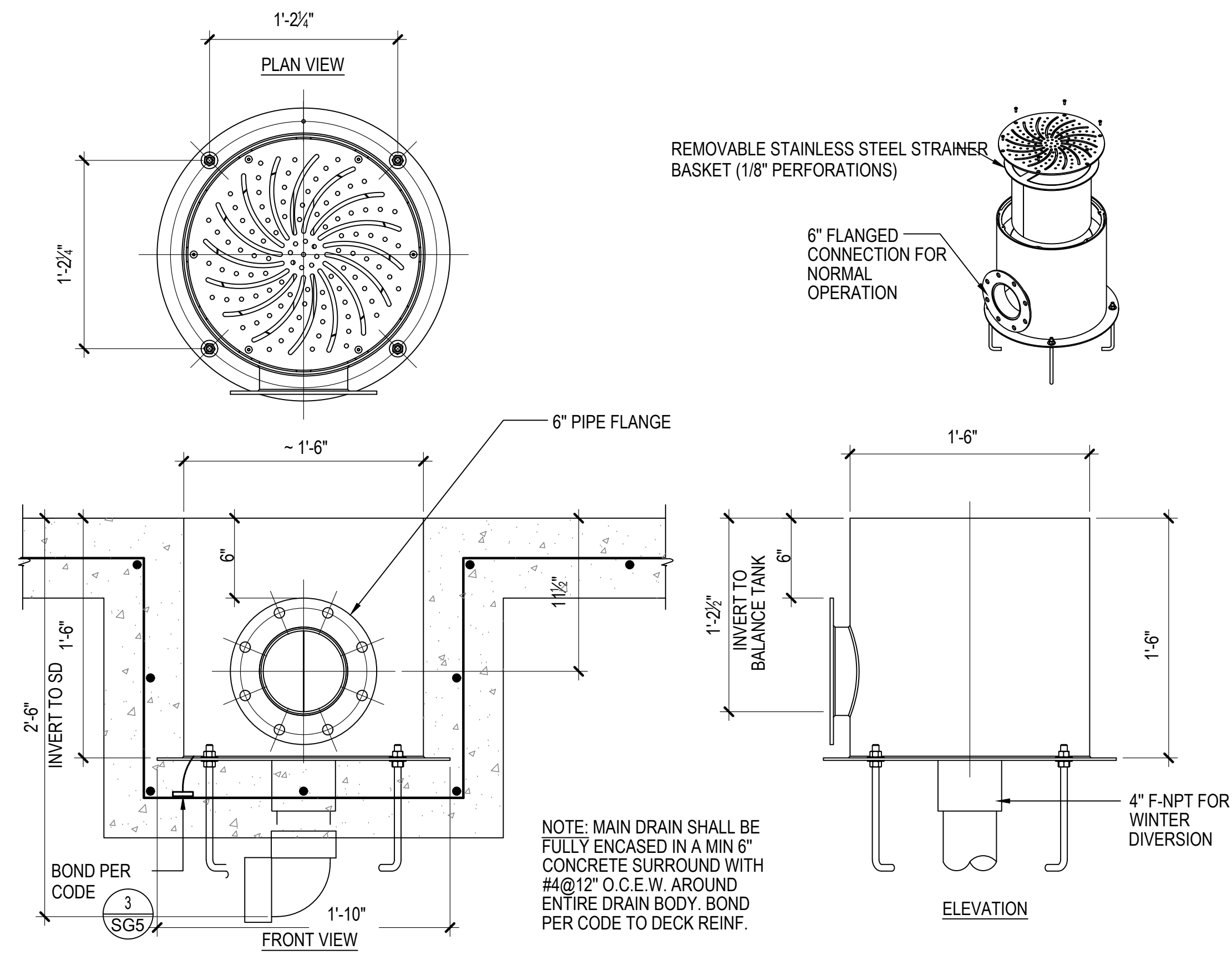
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.



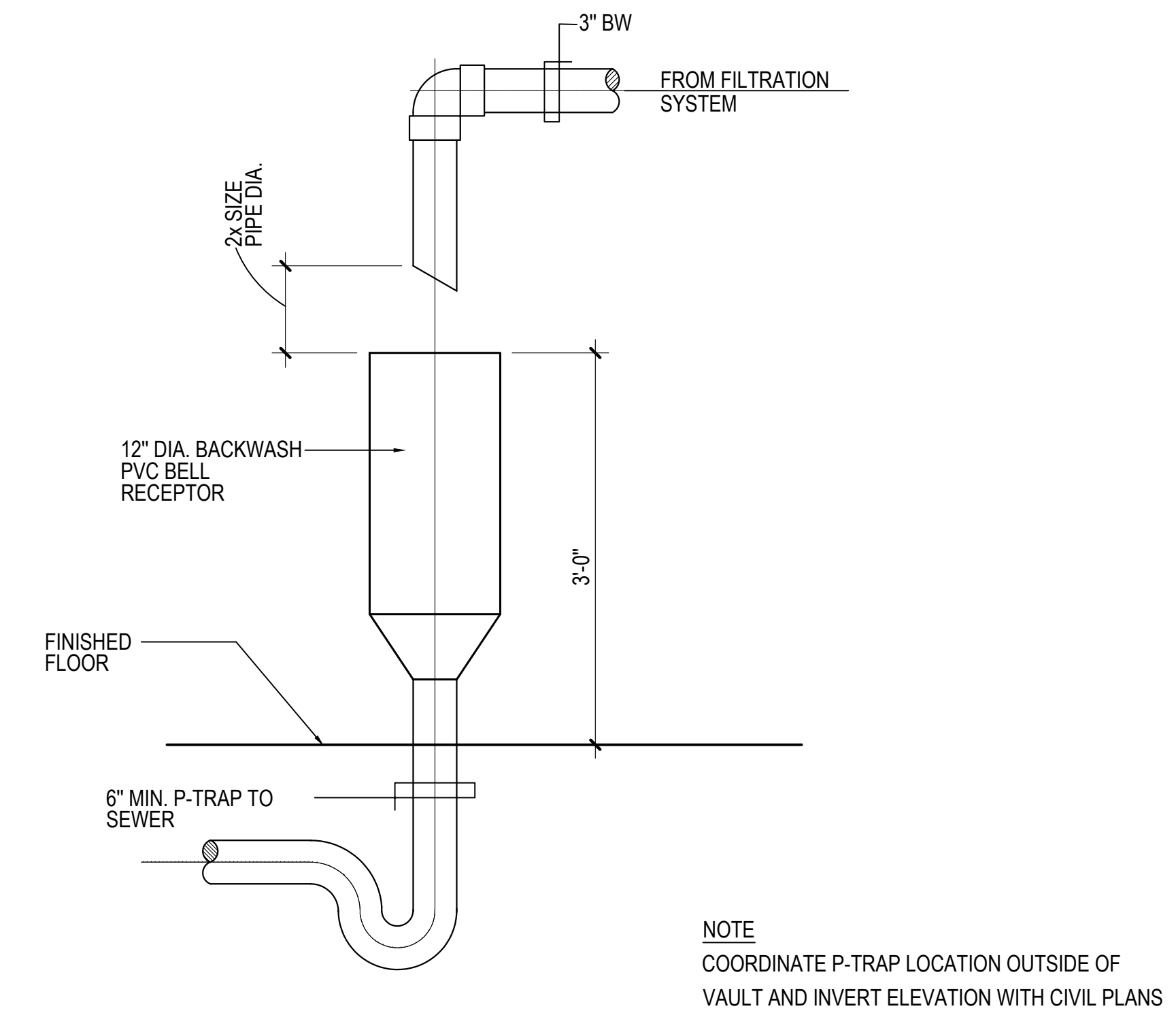
1 SPRAY GROUND DECK 1-1/2"=1'-0"



2 PANELBOARD MOUNTING DETAIL NO SCALE



3 DRAIN DETAIL 1-1/2"=1'-0"



4 BELL RECEPTOR DETAIL 1"=1'-0"

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024

ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT

MANN'S WOODWARD STUDIOS 6800 PINEBELLE ROAD WHITE MARSH, MARYLAND 21152 (P) 410-541-1000

DGN BY: _____

DWN BY: _____

CHKD BY: _____

DATE: _____

SEAL

REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE
PROJECT MANAGER	DATE	APPROVED	DATE
CHIEF ENGINEER	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER	DATE	CHIEF, RIGHT OF WAY SERVICES	DATE

SCALE: AS INDICATED

DRAWN BY: _____

CHECKED BY: _____

SHEET NO.: _____

PROJECT NO.: P570000

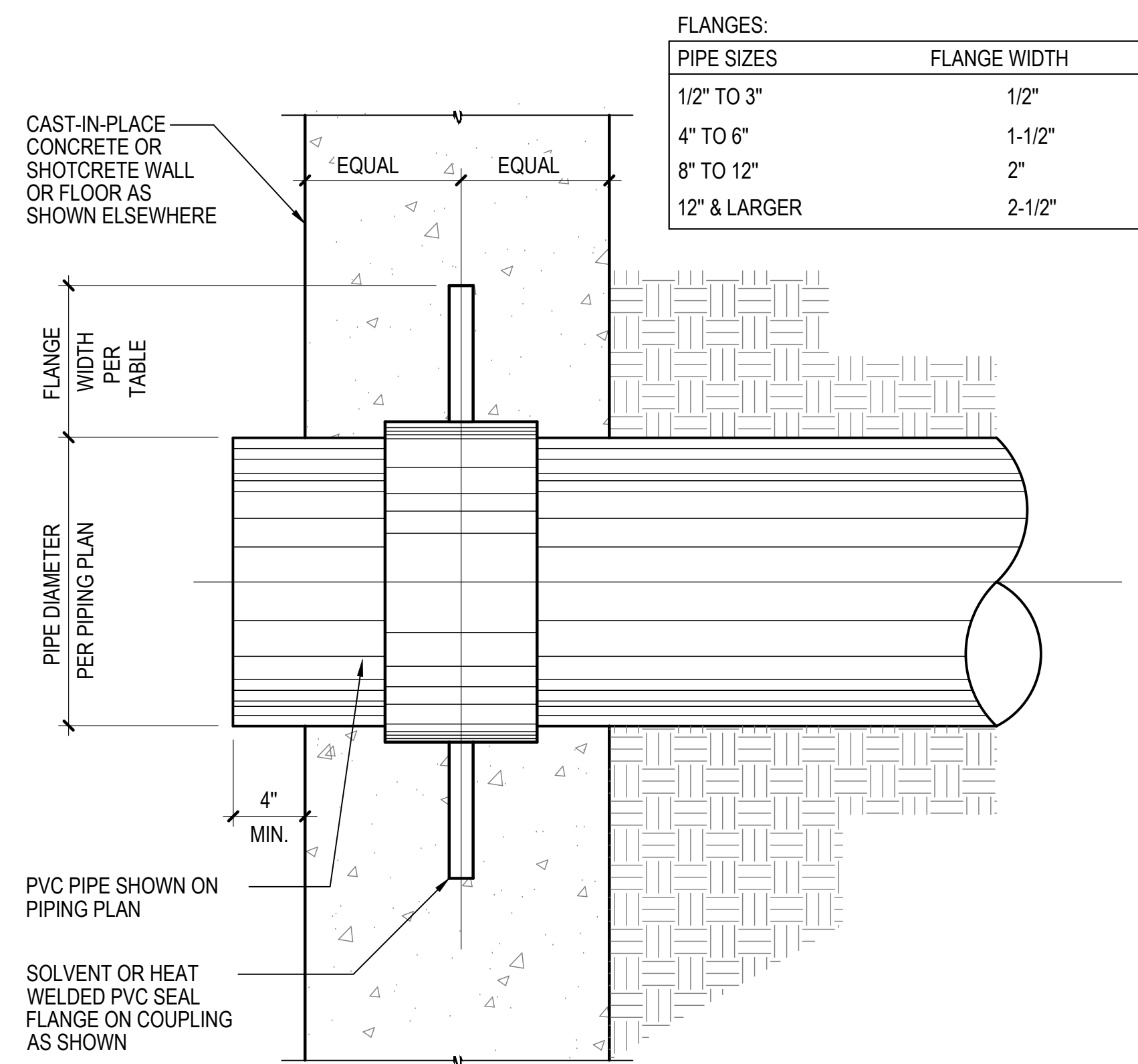
PROPOSAL NO.: P570003

ARCHITECTURAL

NORTH ARUNDEL SWIM CENTER - SPLASH PADS
ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

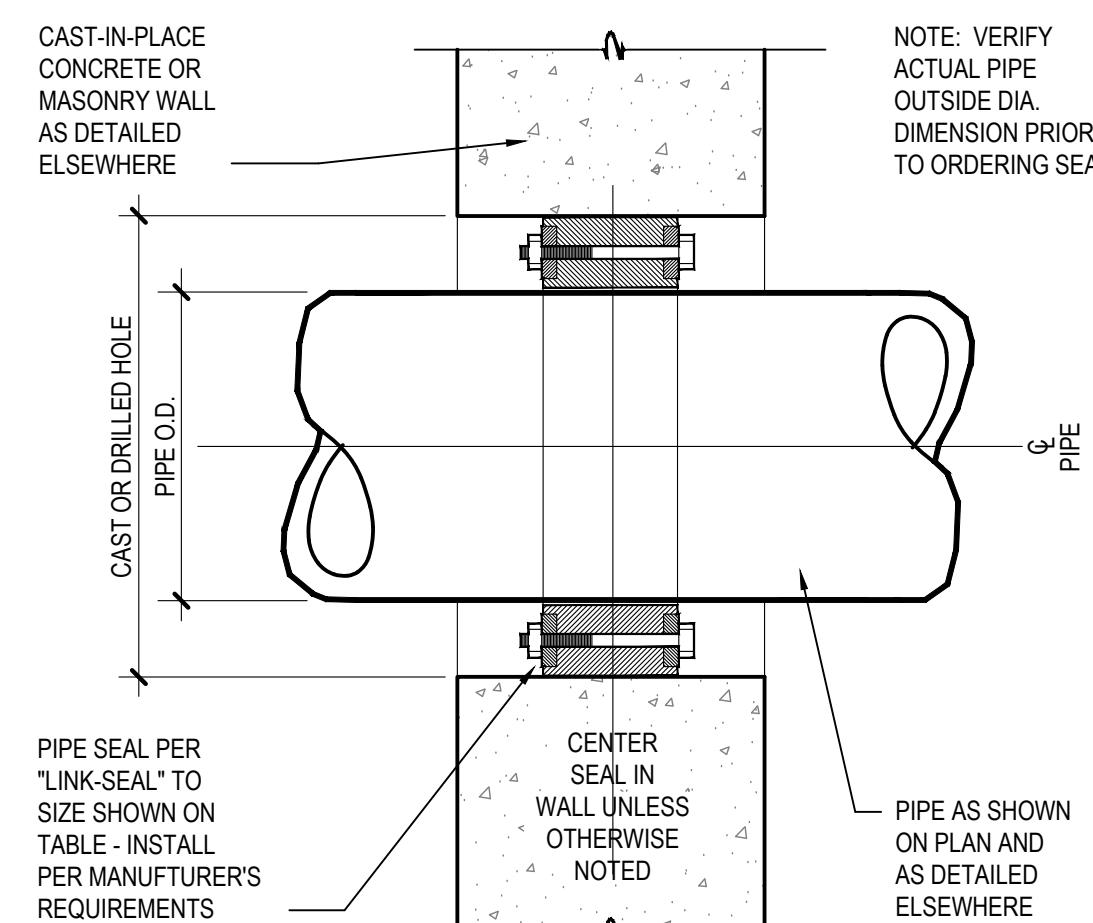
SG4

DETAILS



FLANGES:

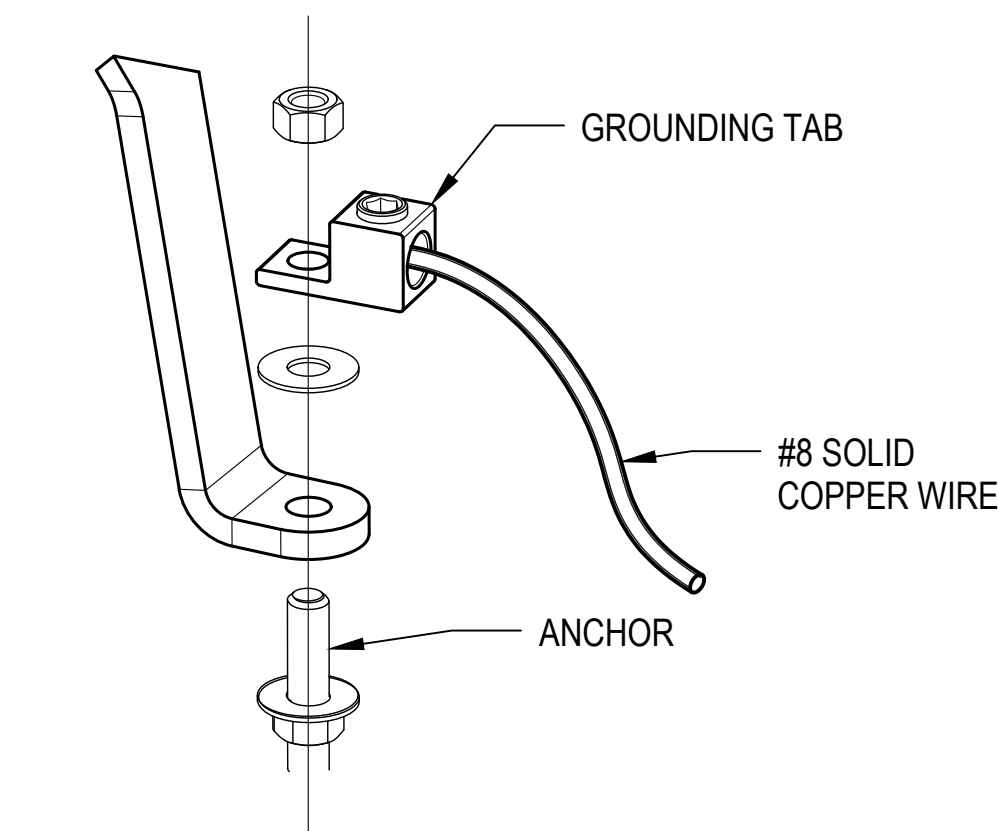
PIPE SIZES	FLANGE WIDTH
1/2" TO 3"	1/2"
4" TO 6"	1-1/2"
8" TO 12"	2"
12" & LARGER	2-1/2"



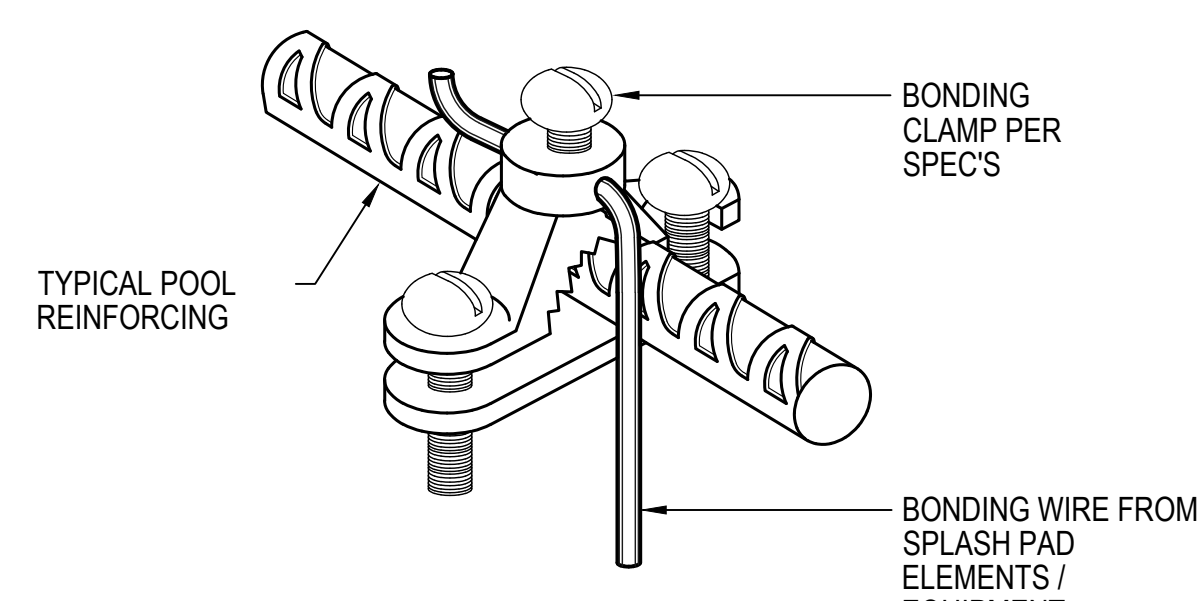
PIPE SIZE (NOMINAL)	OUTSIDE DIAMETER (PIPE O.D.)	CAST OR DRILLED CONCRETE HOLE INSIDE DIA. (I.D.)	LINK SEAL SIZE NO.	NO. OF LINKS PER SEAL
1/2"	0.840	2.0	LS-200	4
3/4"	1.050	2.5	LS-275	5
1"	1.315	3.0	LS-300	4
1-1/4"	1.660	3.0	LS-275	7
1-1/2"	1.900	3.5	LS-300	5
2"	2.375	4.0	LS-300	6
2-1/2"	2.875	4.0	LS-200	9
3"	3.50	5.0	LS-300	8
3-1/2"	4.00	6.0	LS-325	5
4"	4.50	6.0	LS-300	10
5"	5.563	8.0	LS-425	6
6"	6.625	10.0	LS-475	10
8"	8.625	12.0	LS-475	12
10"	10.75	14.0	LS-400	10
12"	12.75	16.0	LS-400	12
14"	14.00	16.0	LS-325	15
16"	16.00	18.0	LS-325	17
18"	18.00	23.0	LS-500	16
20"	20.00	25.0	LS-500	18
22"	22.00	27.0	LS-500	19
24"	24.00	29.0	LS-500	21
26"	26.00	31.0	LS-500	23
28"	28.00	33.0	LS-500	24
30"	30.00	35.0	LS-500	26
32"	32.00	37.0	LS-500	28
34"	34.00	39.0	LS-500	29
36"	36.00	41.0	LS-500	30

1 WATER STOP DETAIL NO SCALE

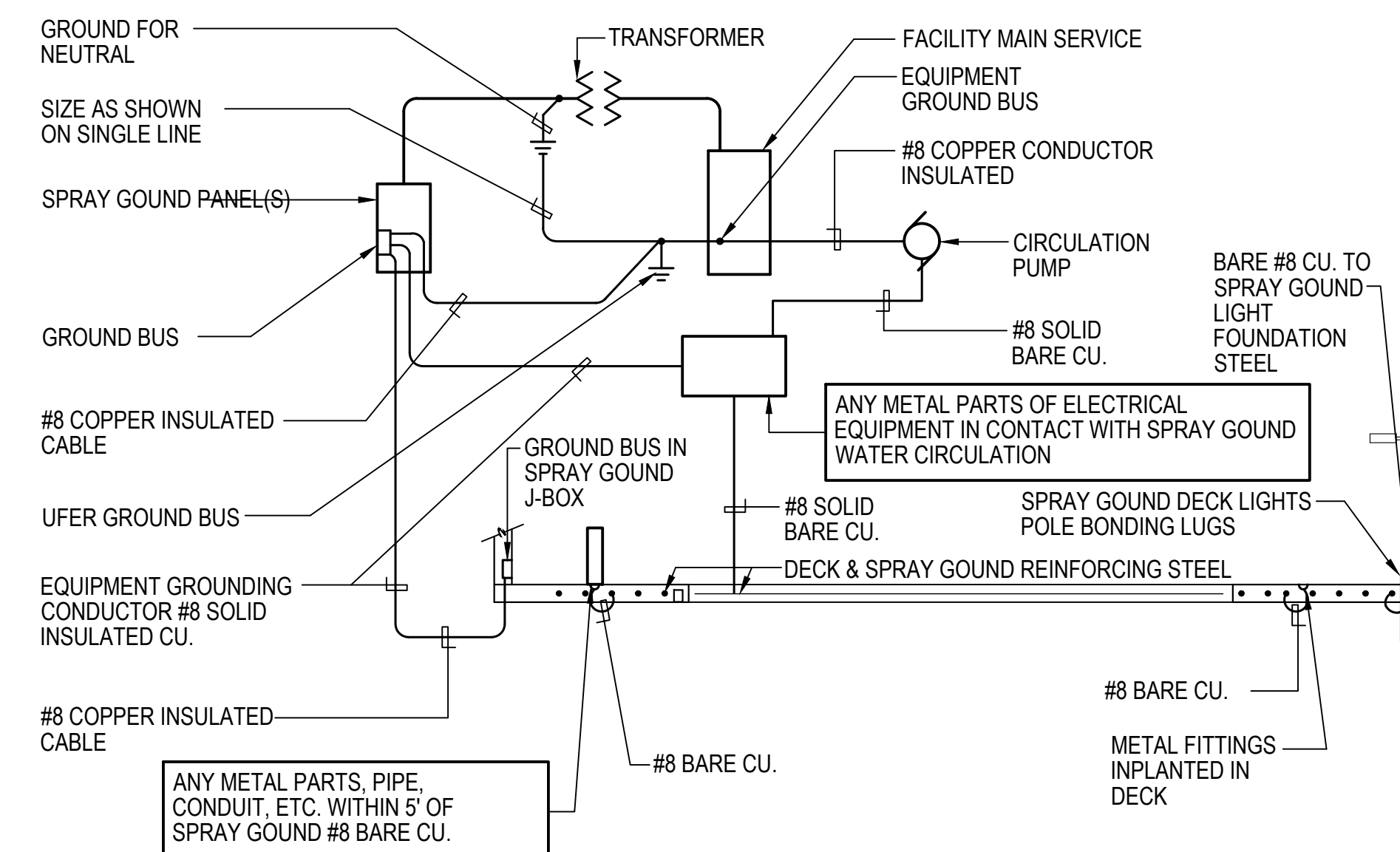
2 PIPE SEAL TO WALL / FLOOR NO SCALE



PLAYPHASE ANCHOR BONDING NO SCALE



BONDING CLAMP NO SCALE



- NOTE:
- STRUCTURAL STEEL IN SPRAY GOUND DECK AND SPRAY GOUND SHALL BE BONDED TOGETHER (TIGHTLY MADE STEEL TIE-WIRES ARE APPROVED FOR BONDING STRUCTURAL ELEMENTS).
 - BONDING CONNECTOR TO COMMON GRID, (SPRAY GOUND STEEL MAY BE USED FOR THAT PURPOSE) SHALL BE MADE BY PRESSURE CONNECTORS OR CLAMPS OF BRASS, COPPER, OR COPPER ALLOY.
 - ALL GROUND BUSES SHALL BE SIZED FOR CONNECTION TO AWG SIZE 8 WIRE PROVIDING ONE SPARE TERMINAL.
 - GROUND AND BOND IN ACCORDANCE WITH ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE. ie. LADDERS, FENCING, POLE LIGHTS, DIVING, ETC.
 - PROVIDE BONDING OF AUTOMATIC SPRAY GOUND COVER MOTORS REGARDLESS OF PROXIMITY TO SPRAY GOUND.

3 BONDING DETAIL NO SCALE

4 TYPICAL POOL BONDING AND GROUND DETAIL NO SCALE

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024
 ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS 60800 PEARLDALE ROAD WHITE MARSH, MARYLAND 21152 (P) 410-343-1400
 DGN BY: _____
 DWN BY: _____
 CHKD BY: _____
 DATE: _____



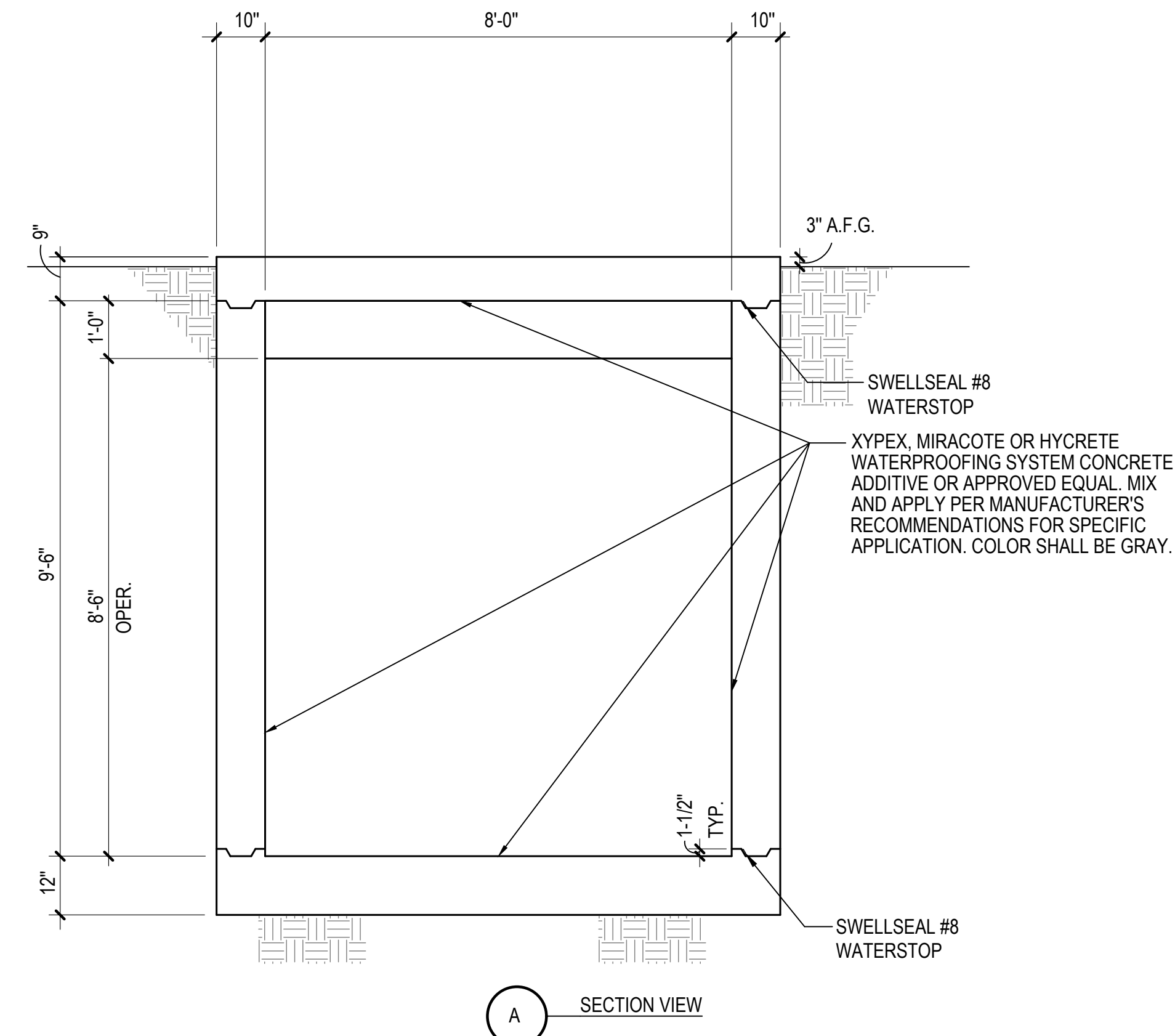
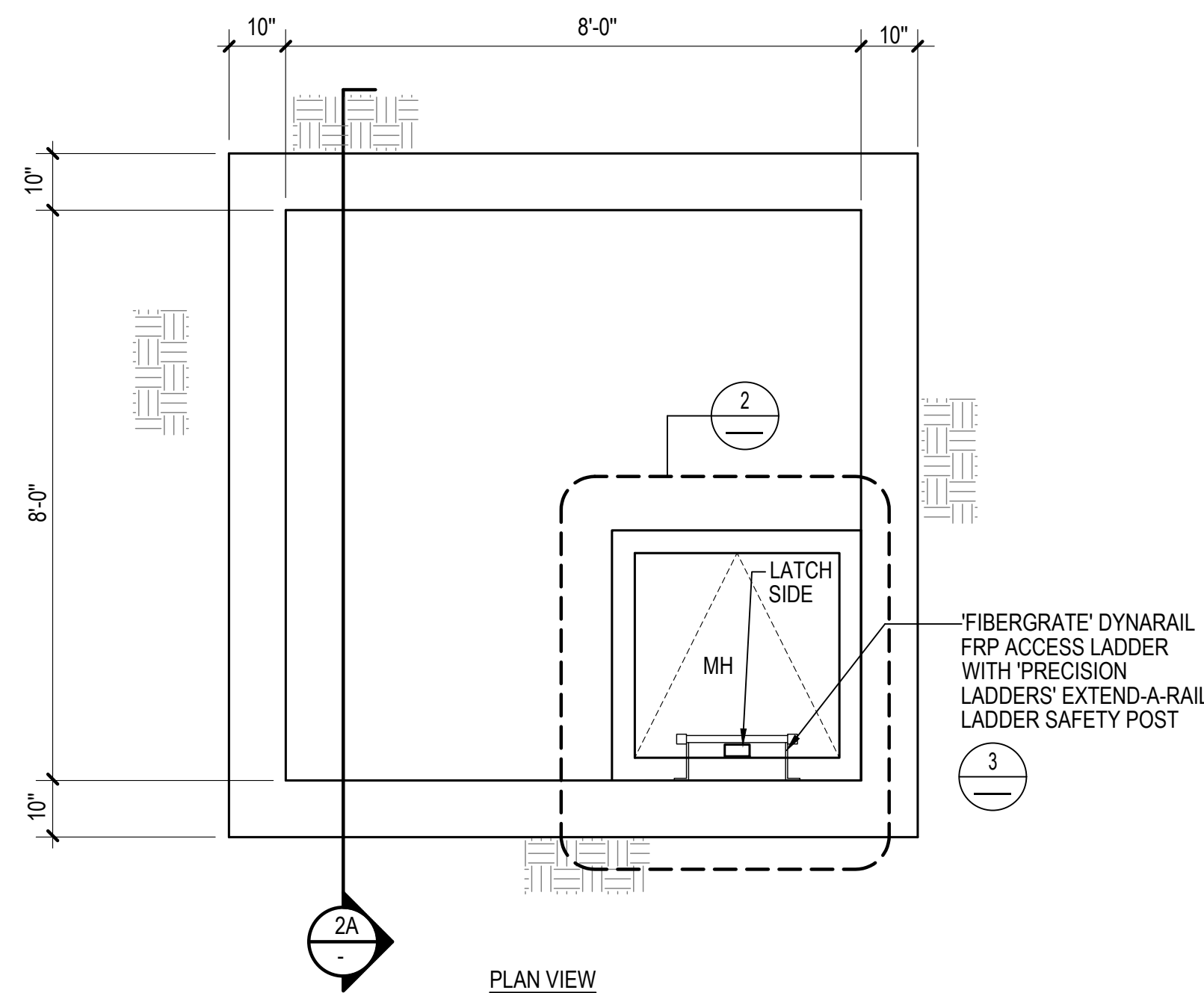
REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

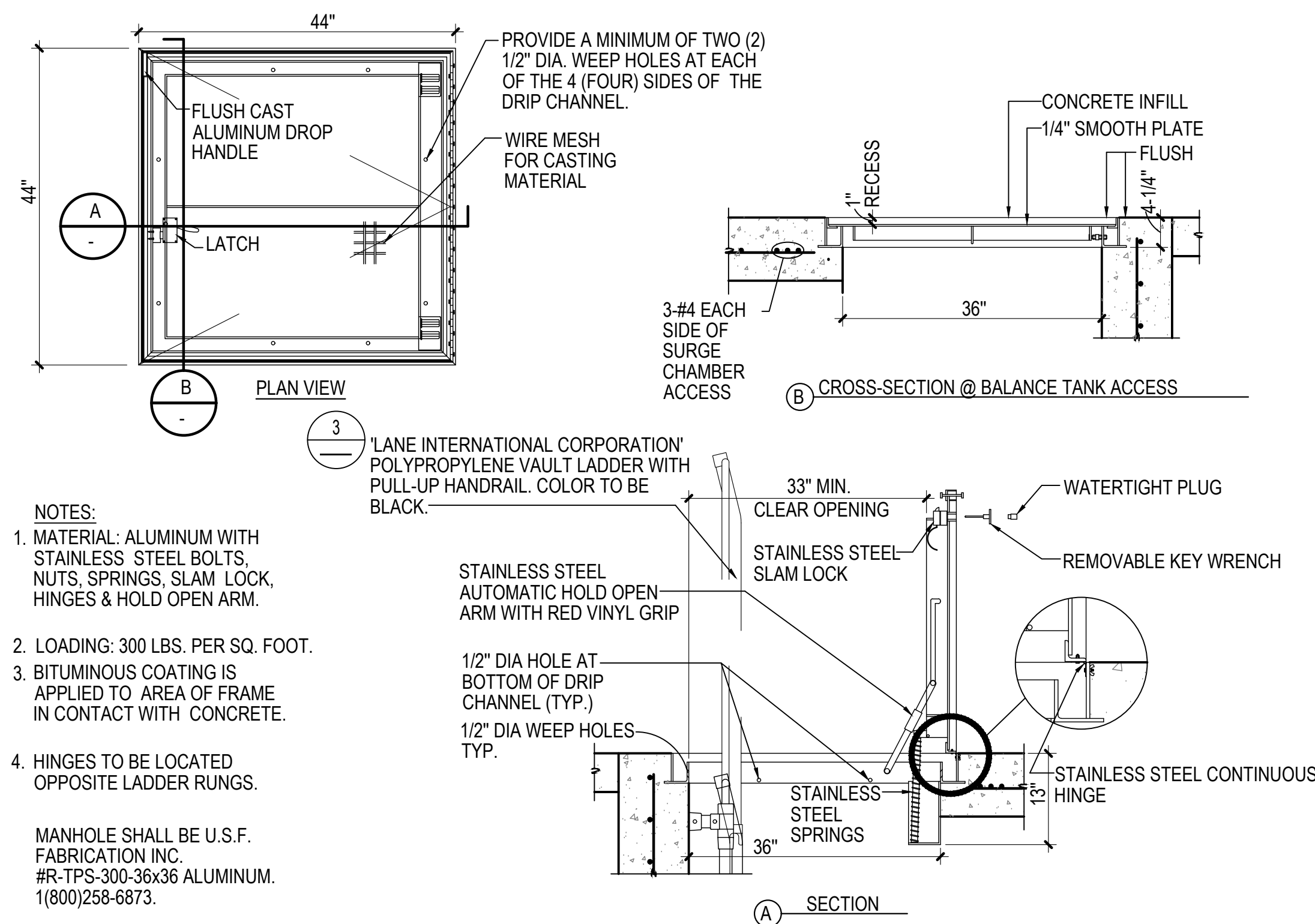
SCALE: AS INDICATED
 DRAWN BY: _____
 CHECKED BY: _____
 SHEET NO.: _____
 PROJECT NO.: P570000
 PROPOSAL NO.: P570003
 ARCHITECTURAL
 NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

SG5
 DETAILS

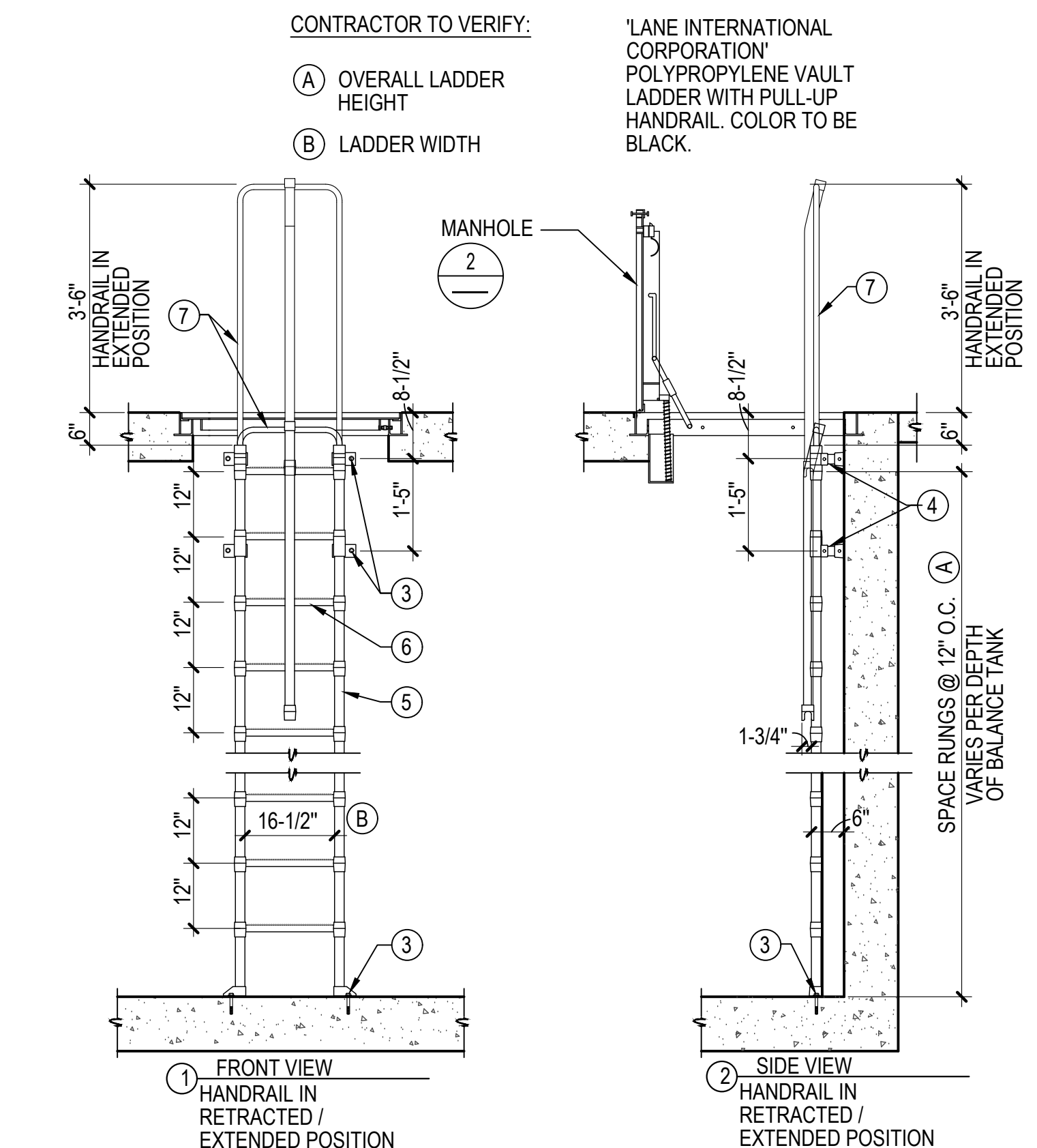
LEGEND
 O.C. = ON CENTER
 E.W. = EACH WAY
 A.F.F. = ABOVE FINISHED FLOOR



1 SPRAY GROUND BALANCE TANK 1/2" = 1'-0"



- NOTES:**
- MATERIAL: ALUMINUM WITH STAINLESS STEEL BOLTS, NUTS, SPRINGS, SLAM LOCK, HINGES & HOLD OPEN ARM.
 - LOADING: 300 LBS. PER SQ. FOOT.
 - BITUMINOUS COATING IS APPLIED TO AREA OF FRAME IN CONTACT WITH CONCRETE.
 - HINGES TO BE LOCATED OPPOSITE LADDER RUNGS.
- MANHOLE SHALL BE U.S.F. FABRICATION INC. #R-TPS-300-36x36 ALUMINUM. 1(800)258-6873.



- CONTRACTOR TO VERIFY:**
- OVERALL LADDER HEIGHT
 - LADDER WIDTH

- NOTES:**
- LADDERS WITH PULL-UP HANDRAIL AVAILABLE IN 5 RUNG THROUGH 25 RUNG.
 - POLYPROPYLENE CONFORMS TO ASTM D-4101. LADDERS MEET ALL ASTM C-497 LOAD REQUIREMENTS AND OSHA 1910.26 AND 1910.27 SPECIFICATIONS.
 - FASTEN LADDER TO FLOOR AND WALL WITH 1/2" DIA. STAINLESS STEEL HILTI KB T22 (ESR 4266) W/ 2" MIN. EMBED TYP.
 - STANDARD ADJUSTABLE MOUNTING BRACKET - 8" O.D.
 - ALUMINUM REINFORCED COPOLYMER POLYPROPYLENE RAIL 1-3/4" x 1-3/4" DIA.
 - STEEL REINFORCED COPOLYMER POLYPROPYLENE RUNG 1-3/8" x 1-1/4" DIA. WITH MOLDED FINGER GRIPS, 12" C.C.
 - ALUMINUM AND STEEL REINFORCED COPOLYMER POLYPROPYLENE PULL-UP HANDRAIL.

2 BALANCE TANK ACCESS COVER 1"=1'-0"

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024

ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS
 68800 PEARLDALE PIKE ROAD
 WHITE MARSH, MARYLAND 21152
 (P) 410-541-9491

DGN BY: _____
 DWN BY: _____
 CHKD BY: _____
 DATE: _____

REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

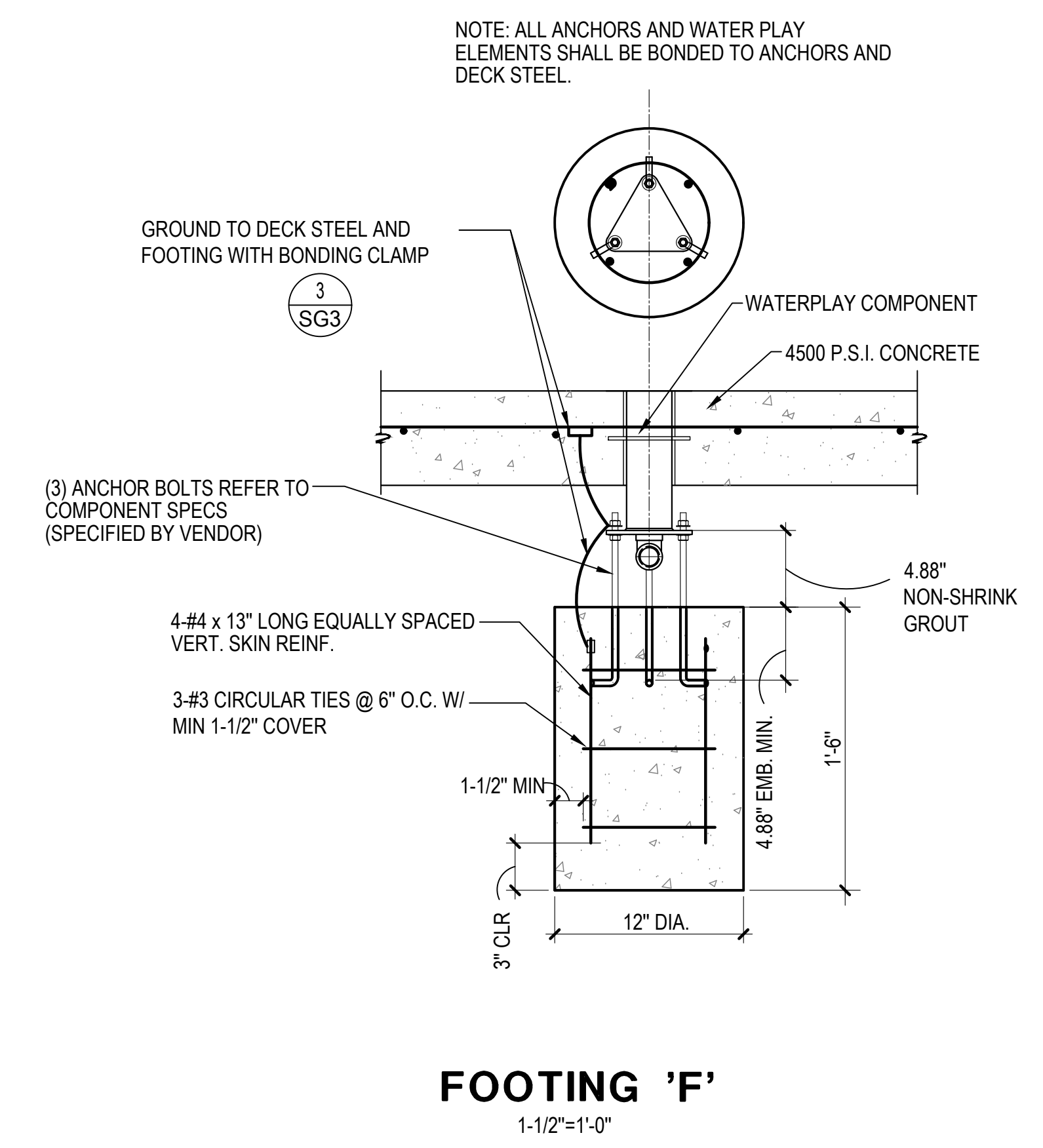
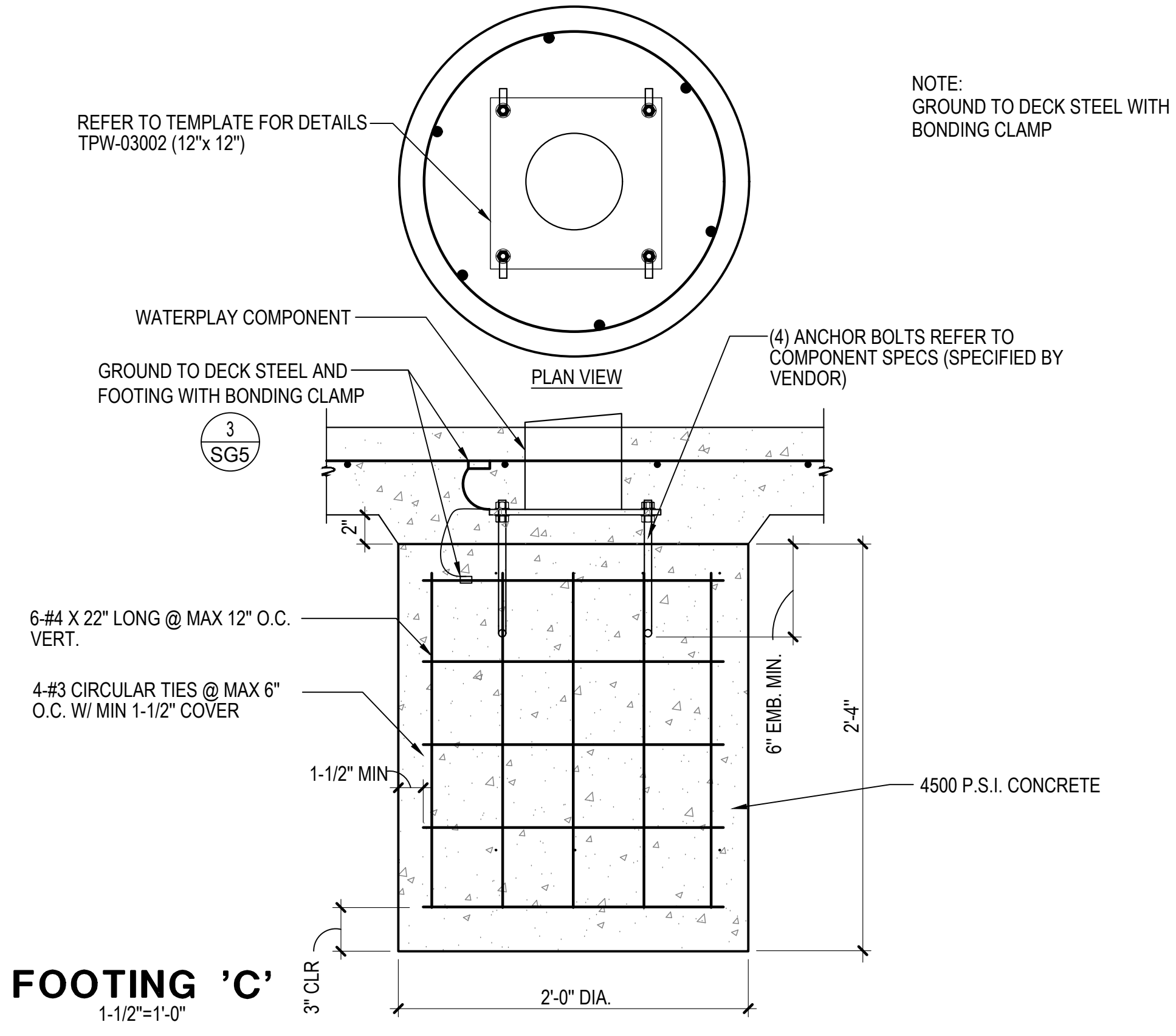
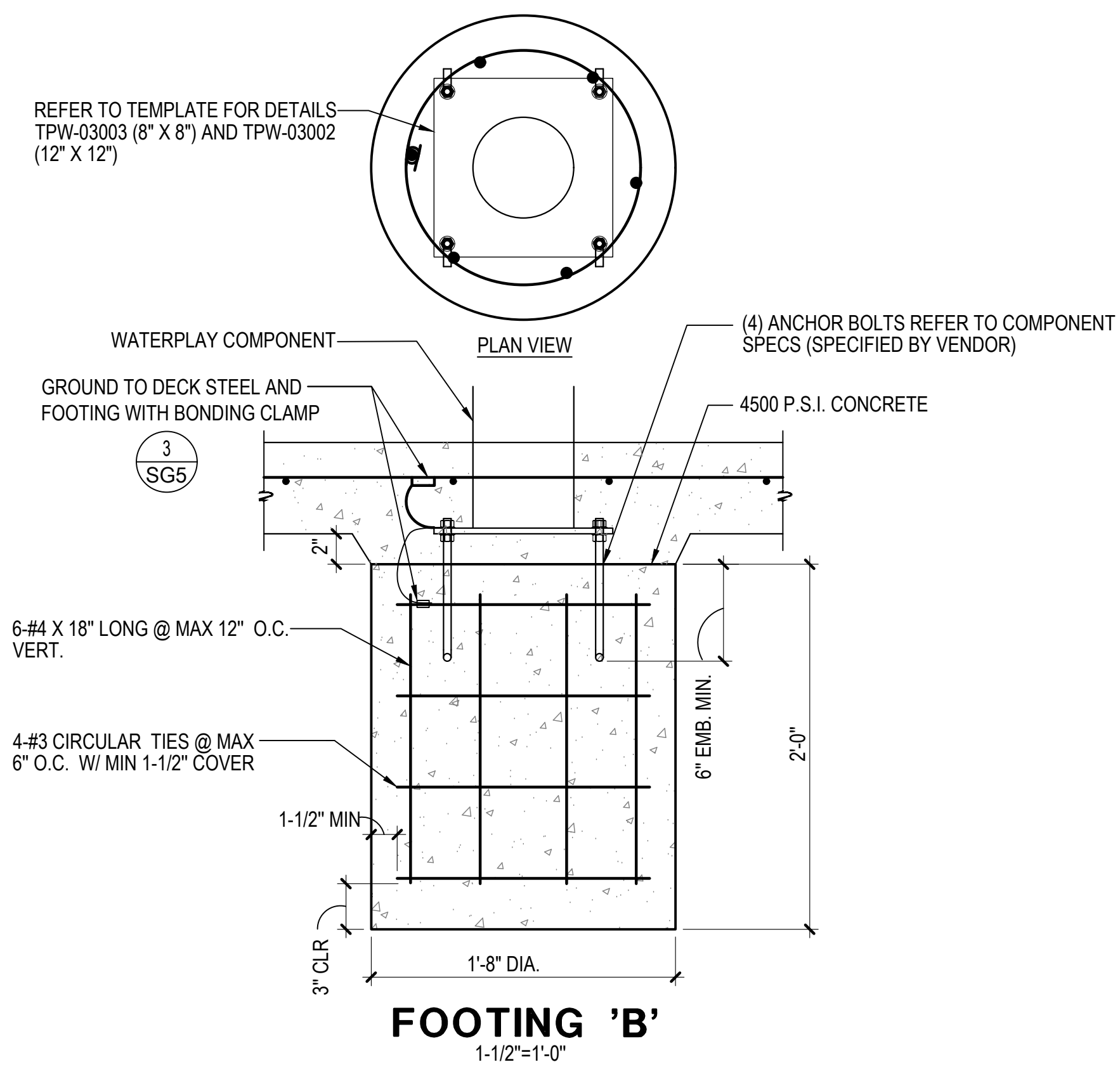
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

SCALE: AS INDICATED
 DRAWN BY: _____
 CHECKED BY: _____
 SHEET NO.: _____
 PROJECT NO.: P570000
 PROPOSAL NO.: P570003

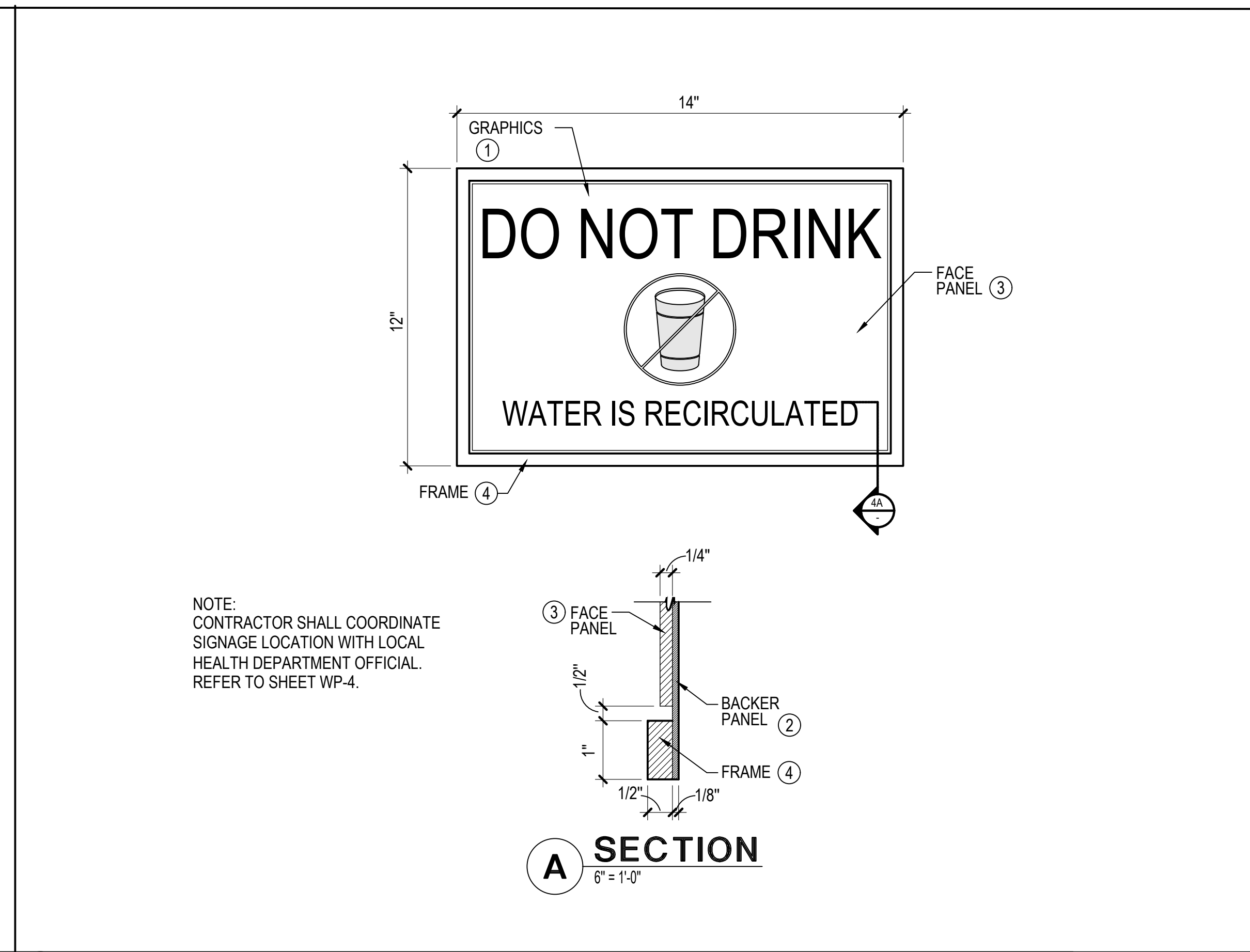
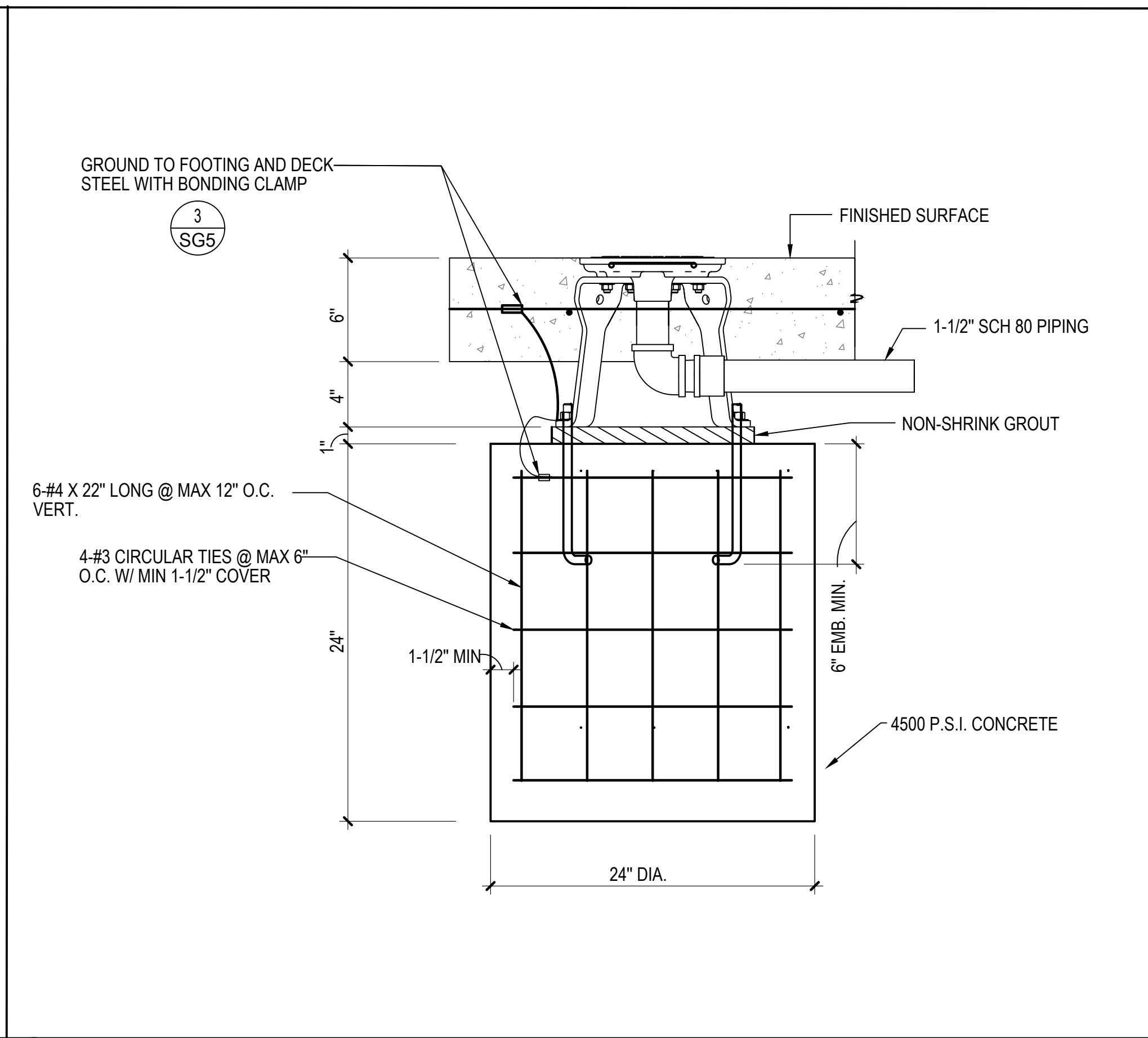
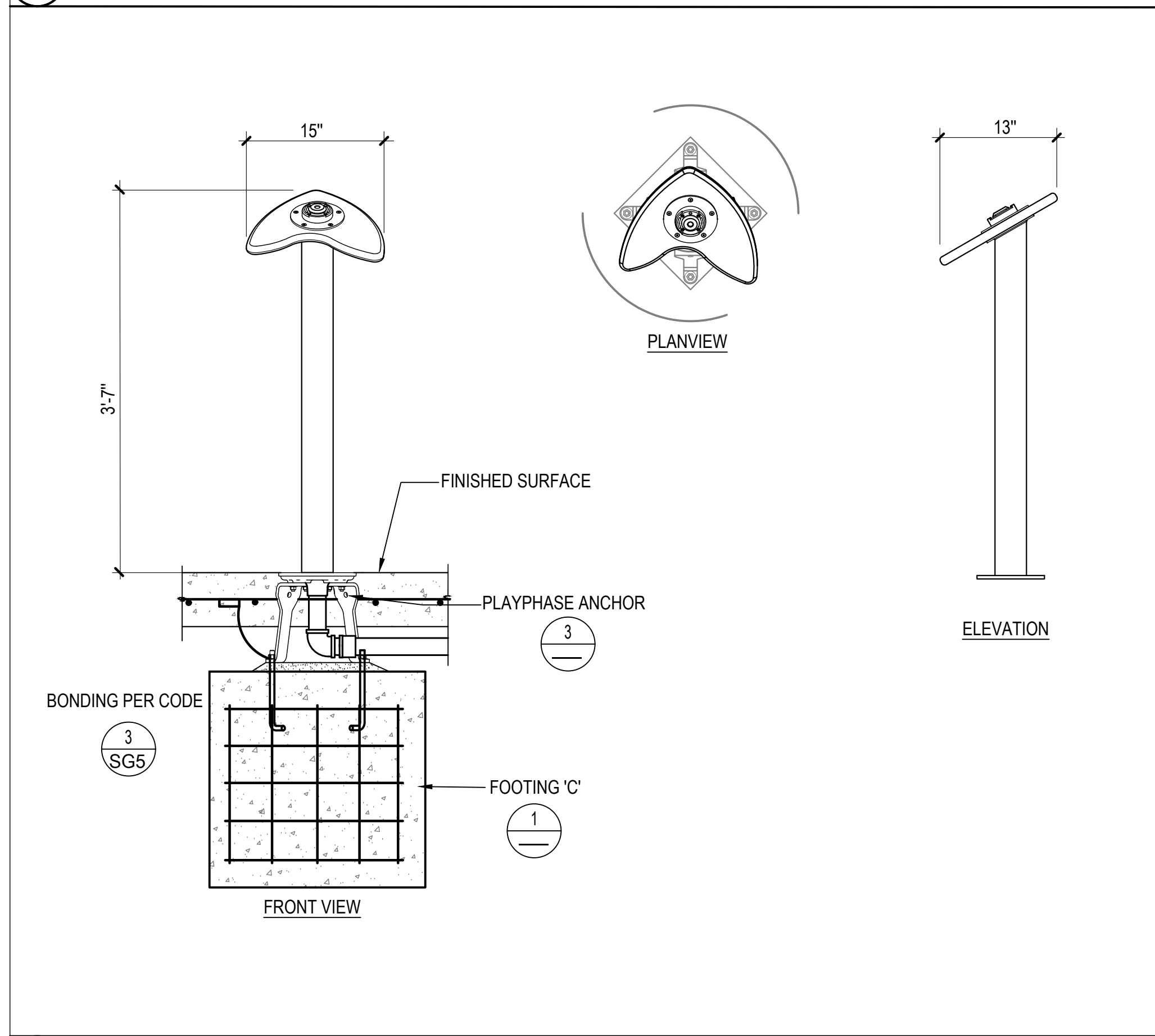
ARCHITECTURAL

NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

SG6
 DETAILS



1 WATER ELEMENT FOOTINGS 1-1/2"=1'-0"



2 POLE MOUNTED ACTIVATOR 1"=1'-0"

3 PLAYPHASE ANCHOR SYSTEM 1"=1'-0"

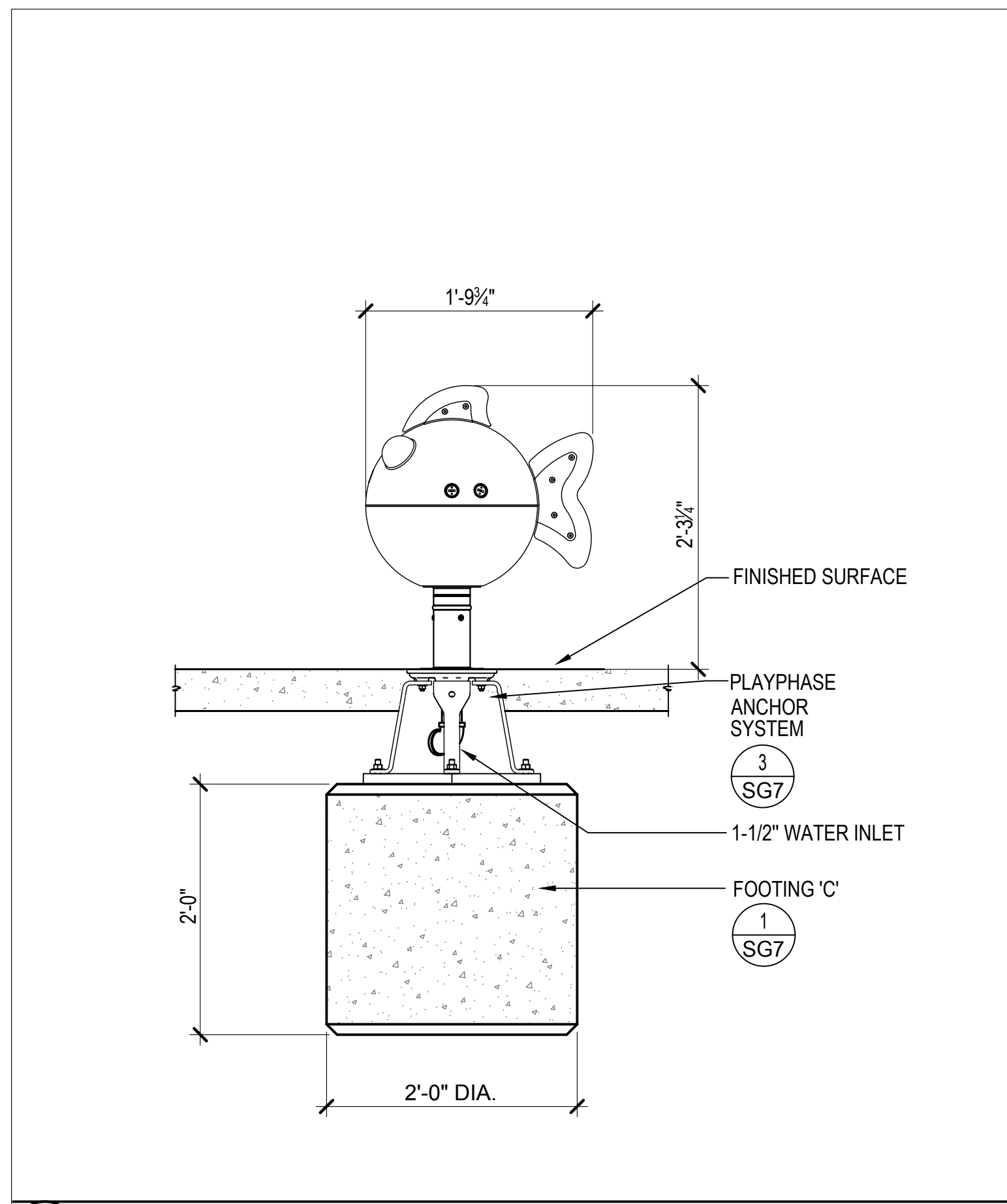
4 WET PLAY SIGN 3/4"=1'-0"

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024
 ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS 6800 PINE LAKE DRIVE WHITE MARSH, MARYLAND 21152 (301) 484-1400
 DGN BY: _____
 DWN BY: _____
 CHKD BY: _____ DATE: _____

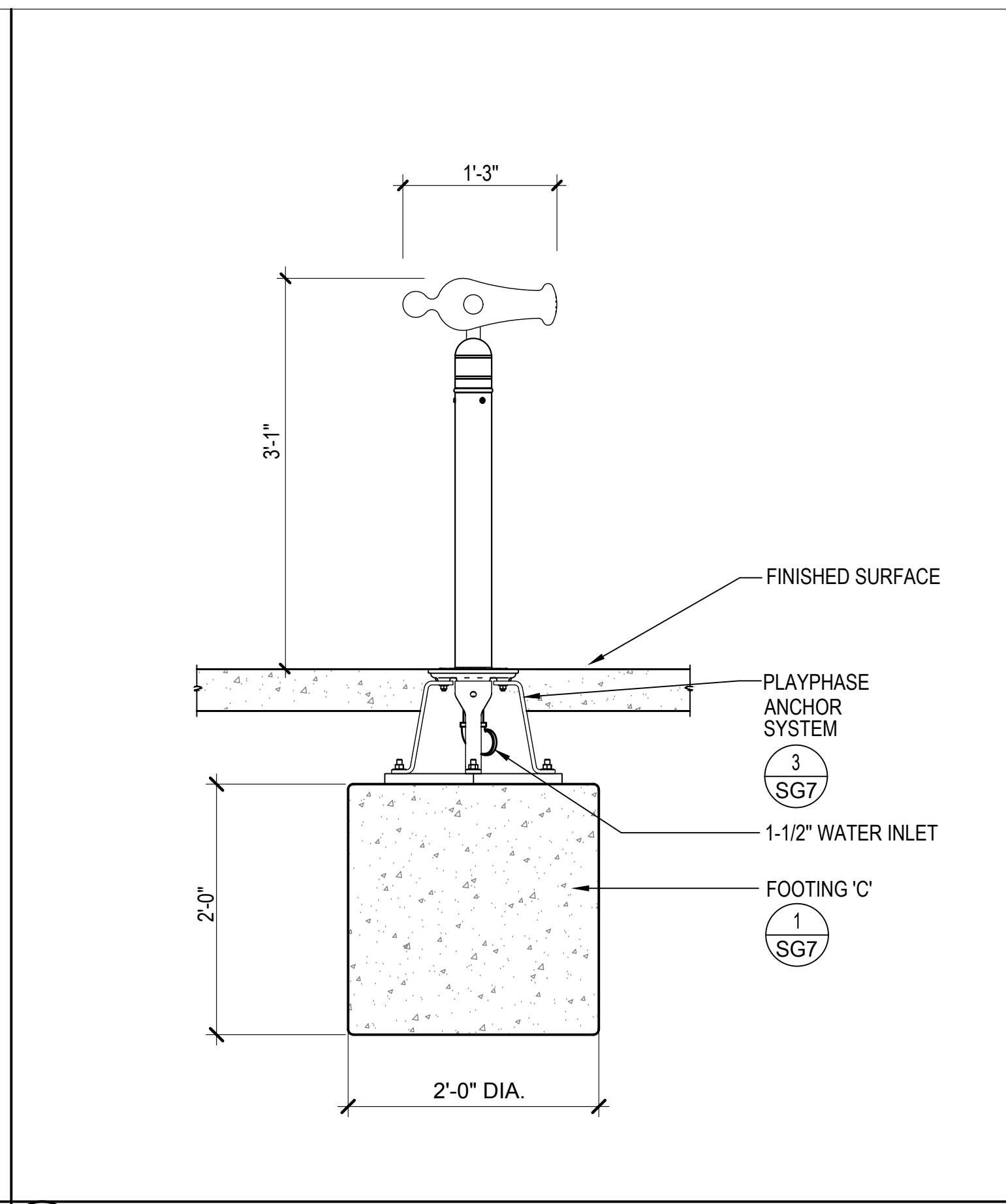


REVISION		NO.	DESCRIPTION	BY	DATE
		00	DESIGN DEVELOPMENT		09/06/2022
		90	CONSTRUCTION DOCUMENTS		12/15/2023
		100	CONSTRUCTION DOCUMENTS		07/01/2024

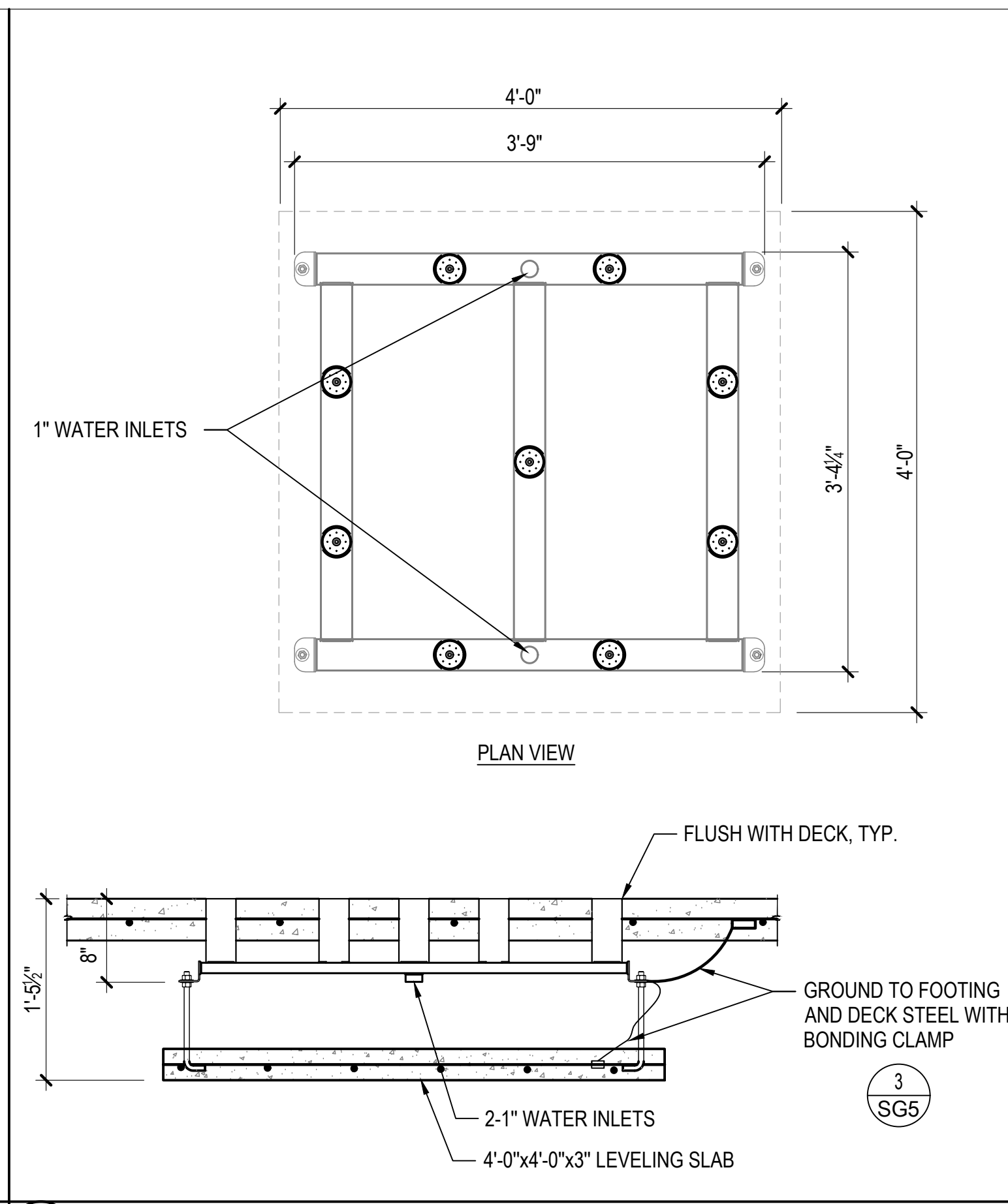
APPROVED		DATE	APPROVED	DATE
_____ CHIEF ENGINEER	_____ PROJECT MANAGER	_____ DATE	_____ APPROVED	_____ DATE
_____ APPROVED	_____ CHIEF, RIGHT OF WAY SERVICES	_____ DATE	_____ APPROVED	_____ DATE



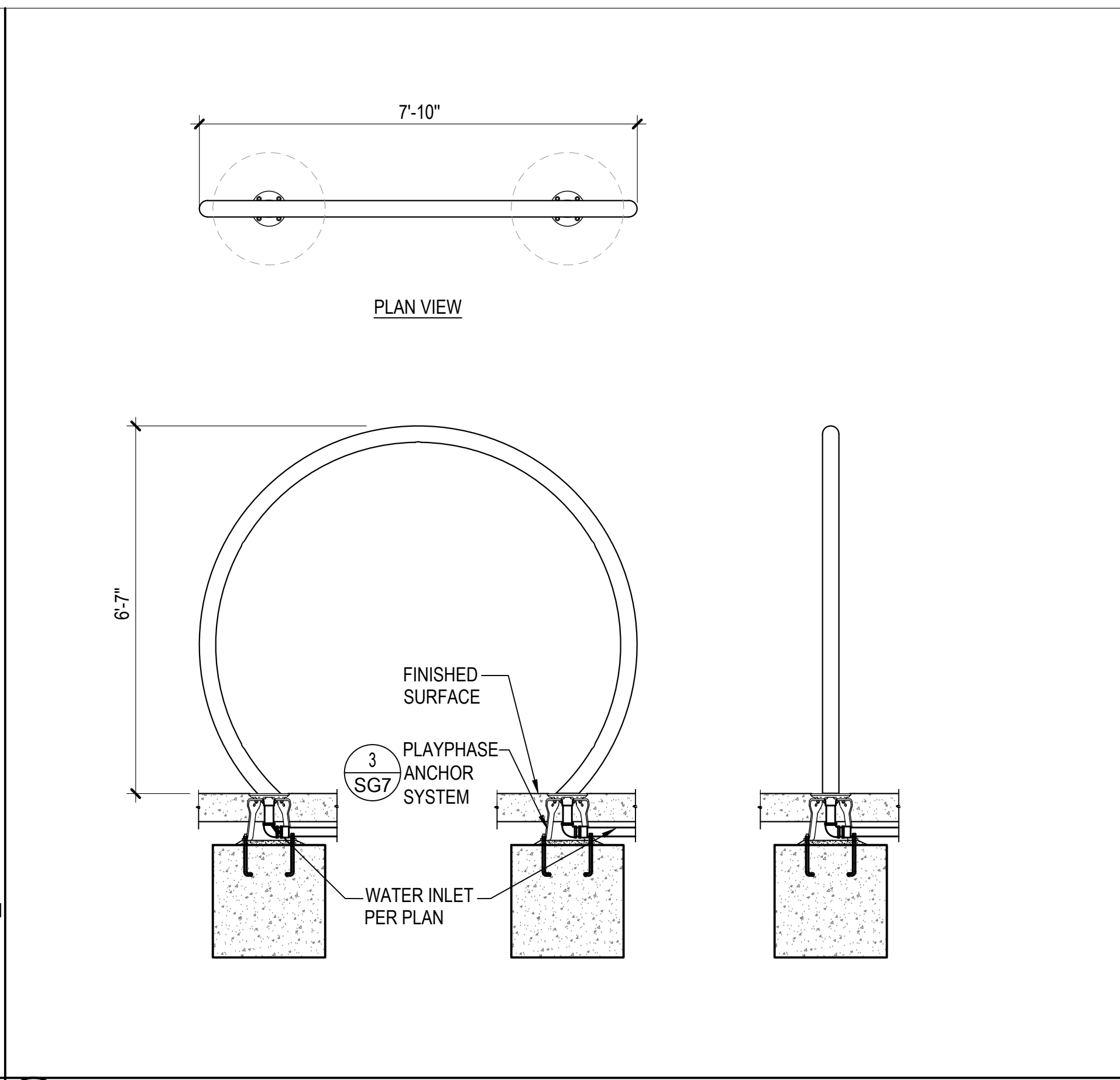
1 BLOWFISH 1" = 1'-0"



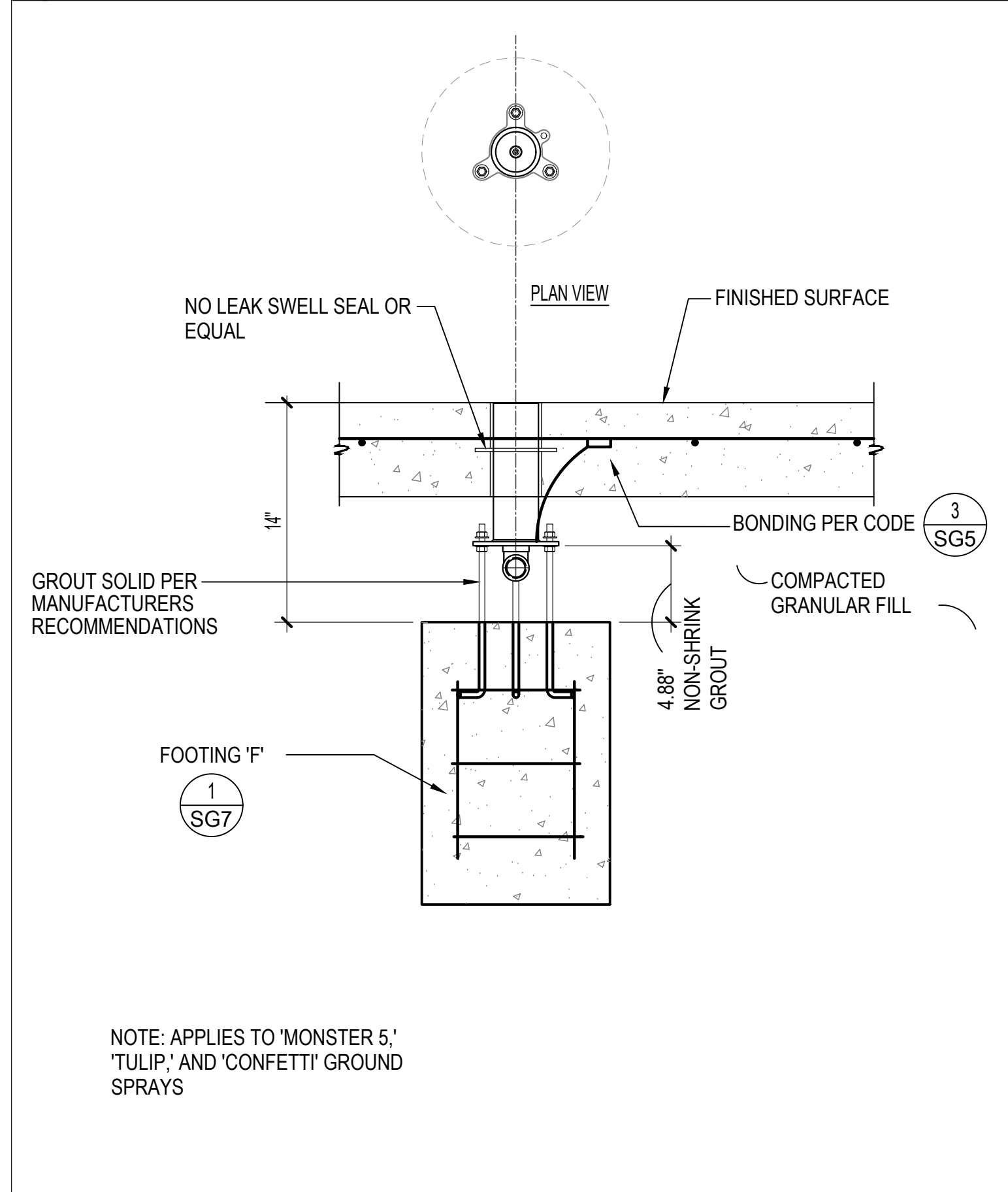
2 CARRONADE 1" = 1'-0"



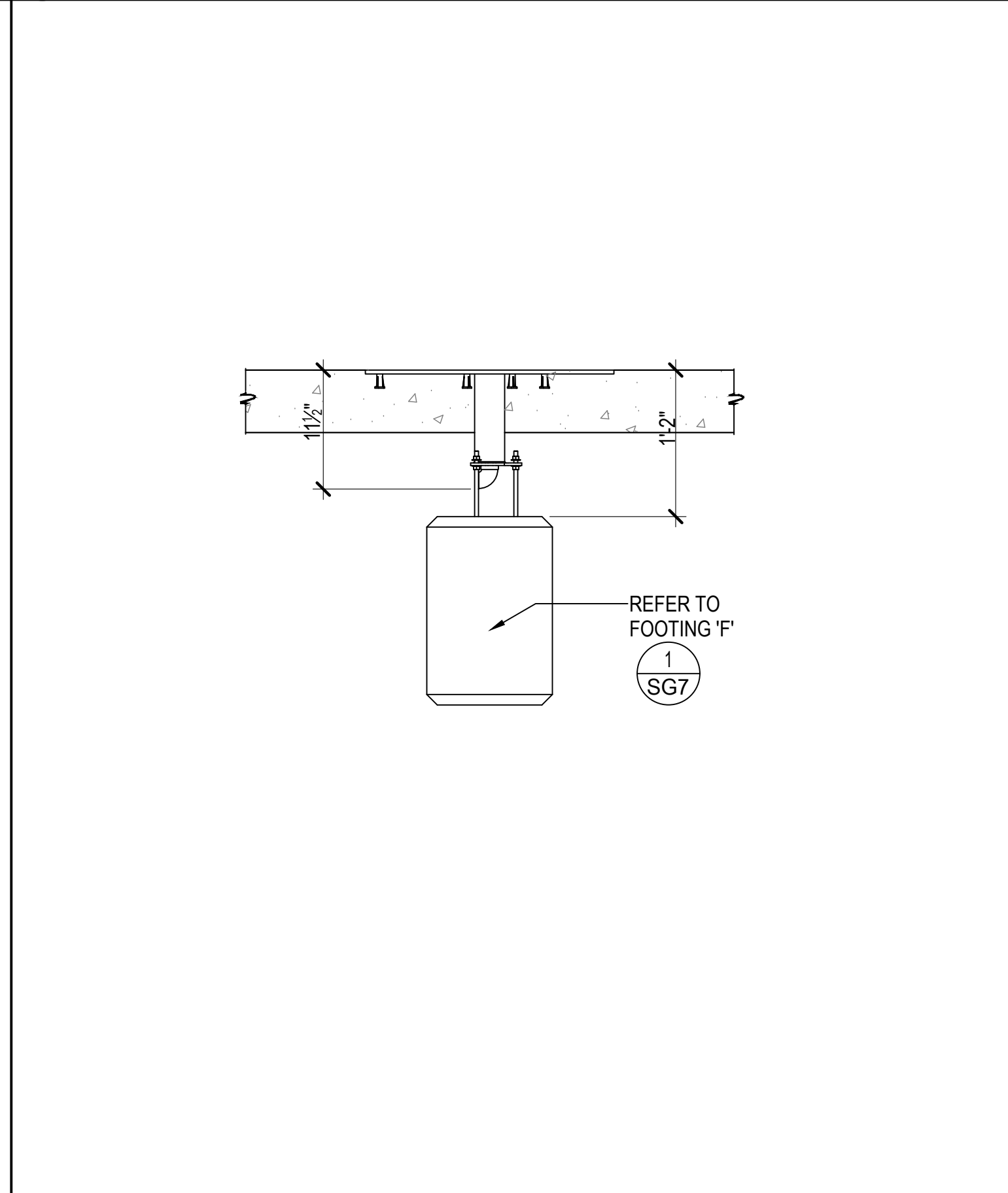
3 GROUP VOLCANO SPRAY 1" = 1'-0"



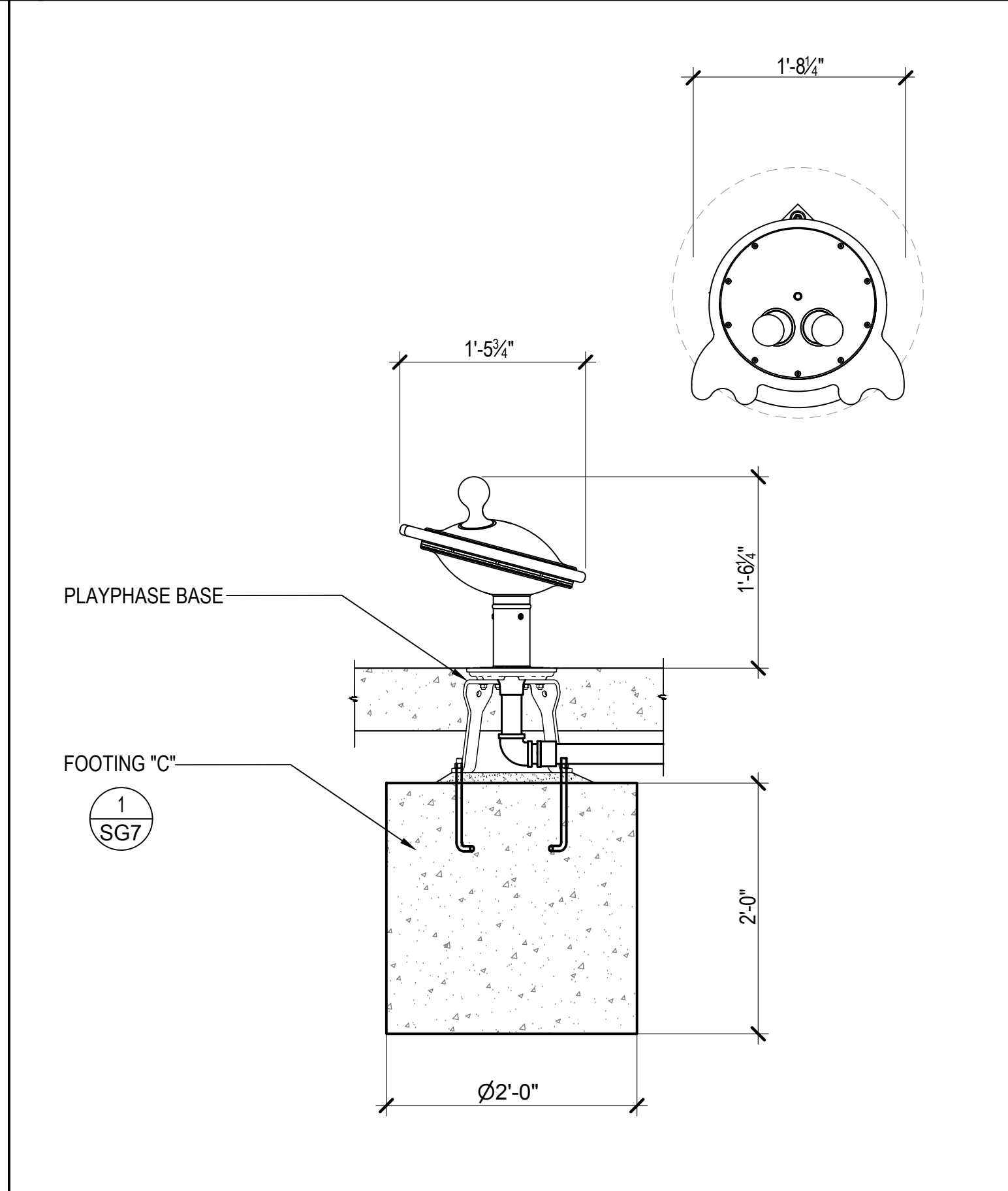
4 WATER-O 1/2" = 1'-0"



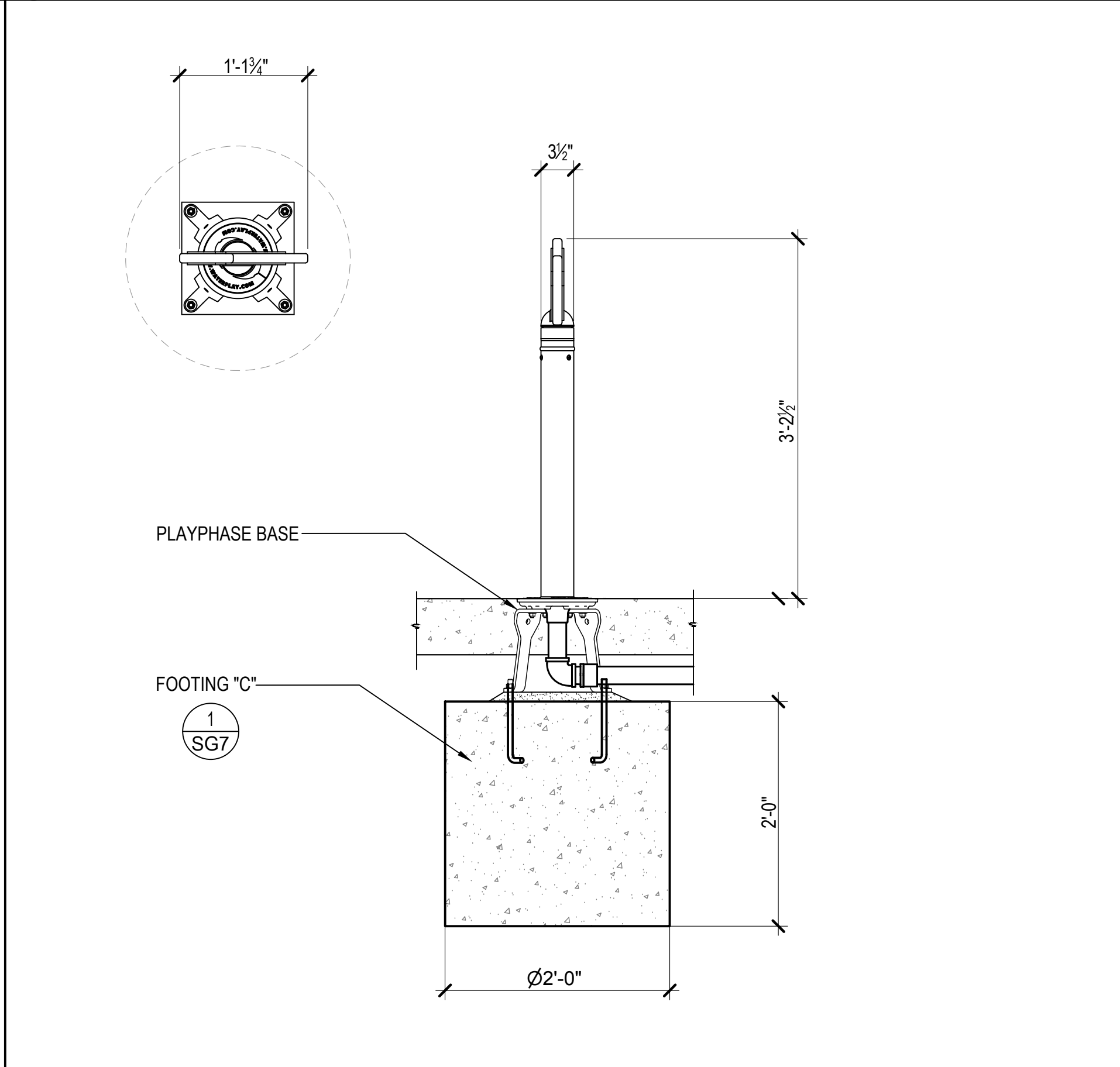
5 GROUND SPRAYS 1-1/2" = 1'-0"



6 LILY PAD 1" = 1'-0"

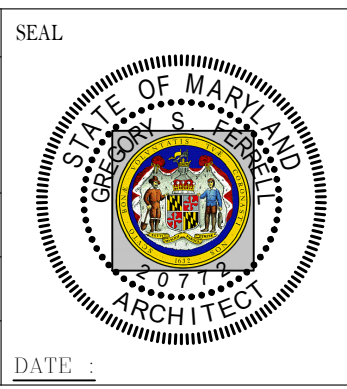


7 CRABBIE 1 1" = 1'-0"



8 FISH 1" = 1'-0"

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024
 ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS 60800 PEARLBERG ROAD WHITE MARSH, MARYLAND 21152 (P) 410-343-1400
 DGN BY: _____
 DWN BY: _____
 CHKD BY: _____ DATE: _____

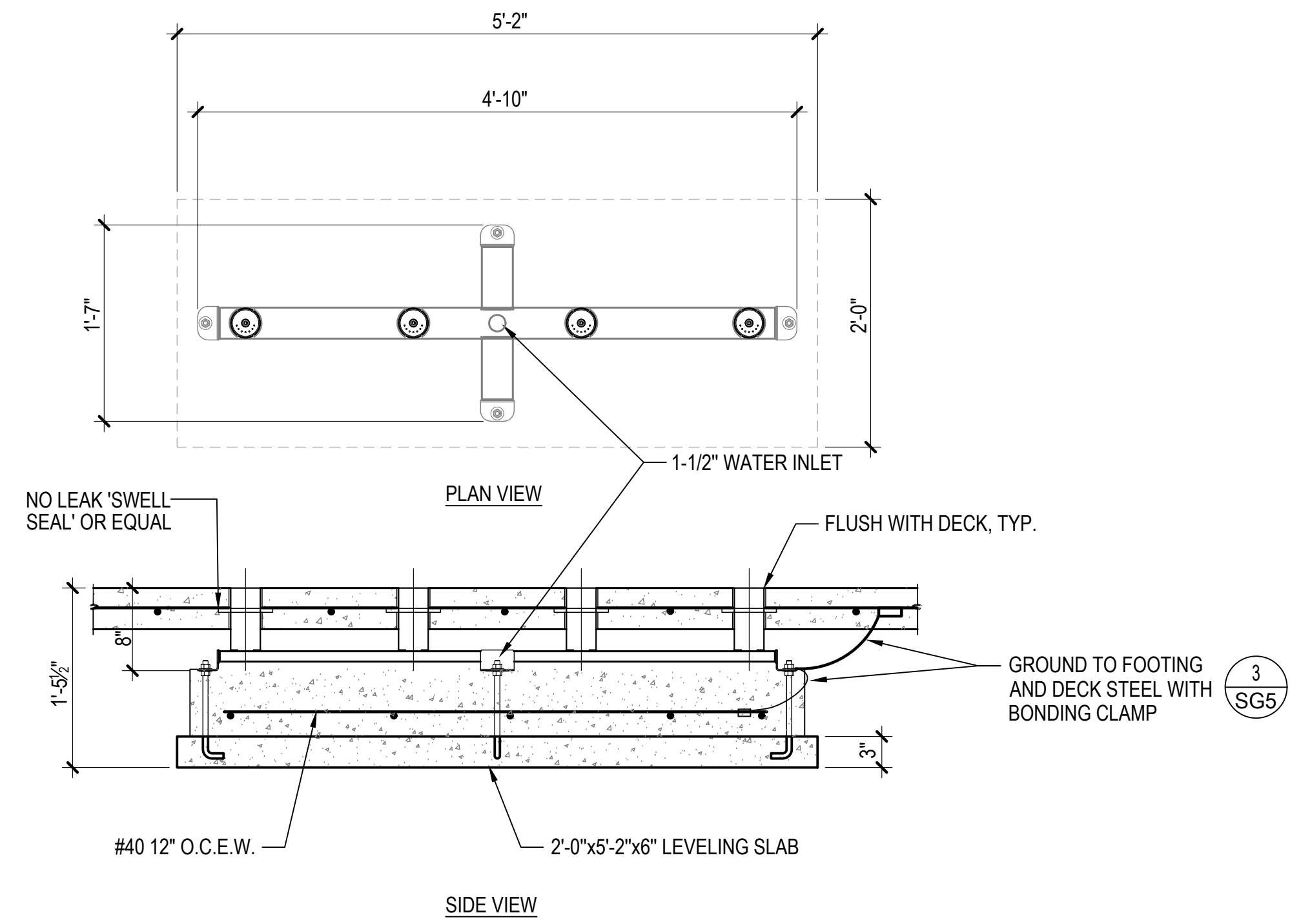


NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

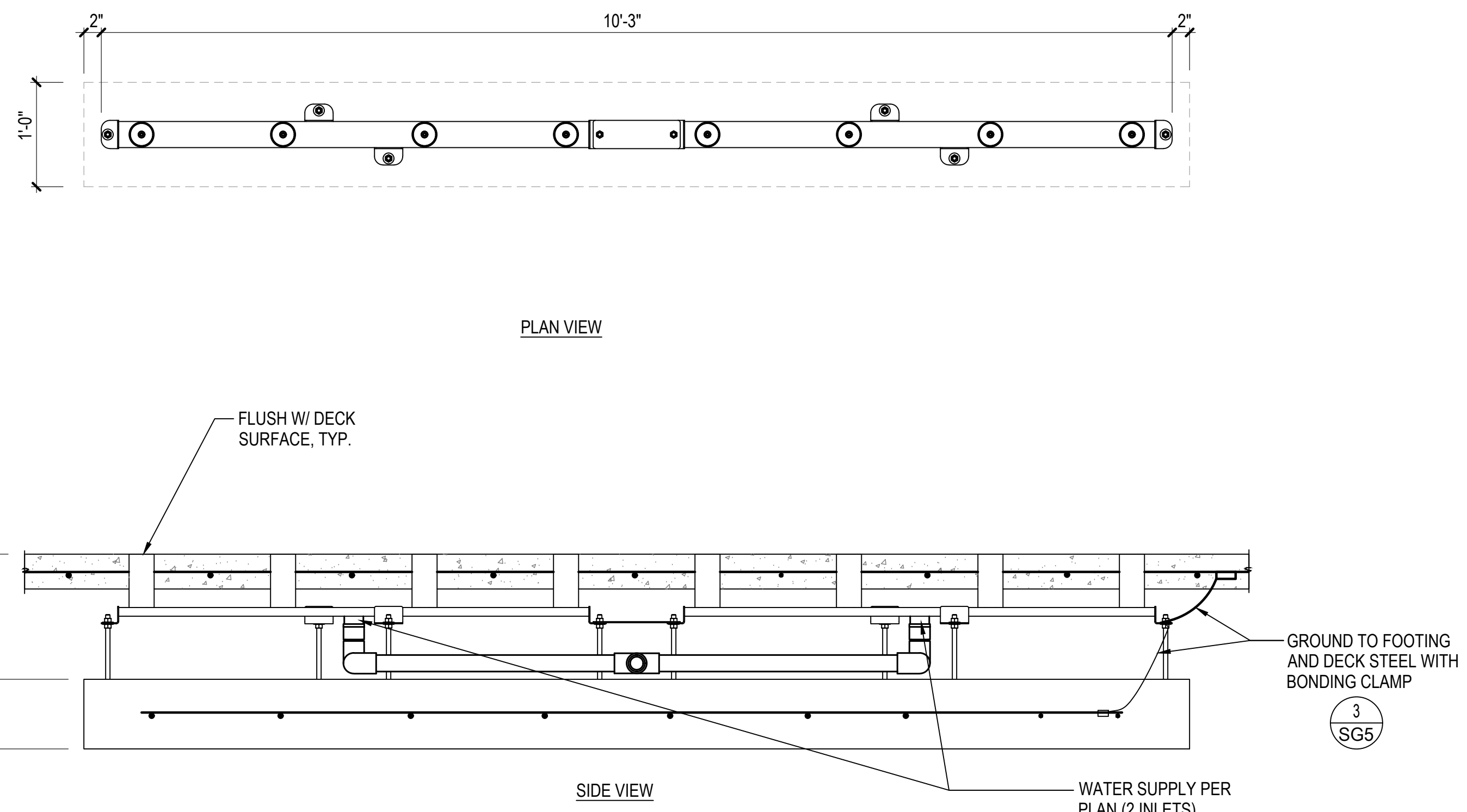
DATE	APPROVED	DATE	APPROVED
	APPROVED		APPROVED
	PROJECT MANAGER		APPROVED
	APPROVED		APPROVED
	ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES

SCALE: AS INDICATED	DATE
DRAWN BY:	
CHECKED BY:	
SHEET NO.:	
PROJECT NO.:	P570000
PROPOSAL NO.:	P570003

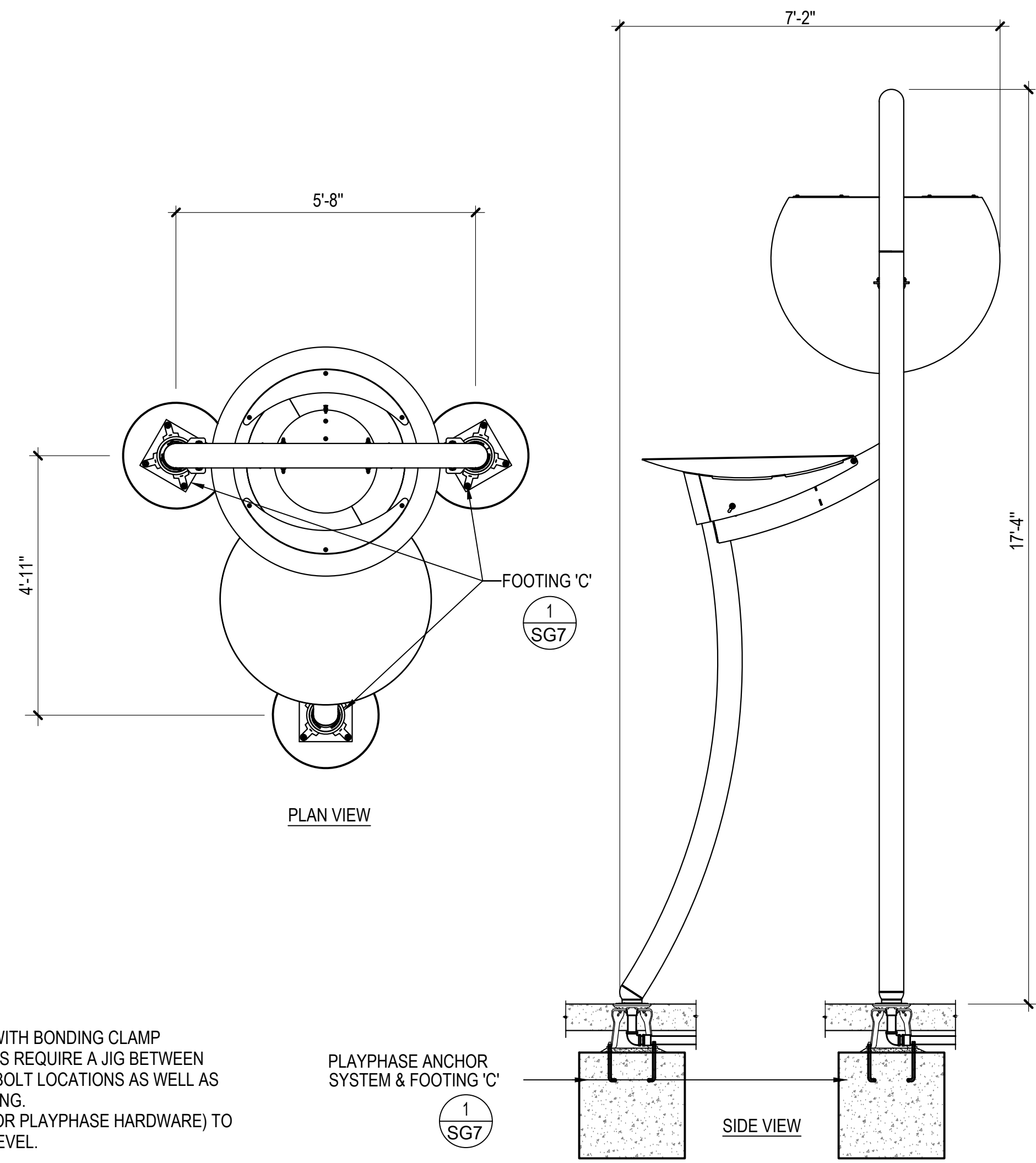
ARCHITECTURAL
 NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS
SG8
 DETAILS



1 **SPRAY TUNNEL 4** 1" = 1'-0"



2 **SPRAY TUNNEL 8** 1" = 1'-0"



- NOTE:
- GROUND TO DECK STEEL WITH BONDING CLAMP
 - DOUBLE FOOTED FEATURES REQUIRE A JIG BETWEEN FOOTINGS FOR CORRECT BOLT LOCATIONS AS WELL AS CENTER TO CENTER SPACING.
 - USE HOLES LABELED 'B' (FOR PLAYPHASE HARDWARE) TO ENSURE THE BASES ARE LEVEL.

3 **MEGA SOAKER** 1/2" = 1'-0"

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024

ARCHITECT: DAVID WOODWARD, AIA
 PRINCIPAL ARCHITECT

MANN'S WOODWARD STUDIOS
 60800 PEARL RIVER ROAD
 WHITE MARSH, MARYLAND 21152
 (P) 410-341-9400

DGN BY: _____
 DWN BY: _____
 CHKD BY: _____

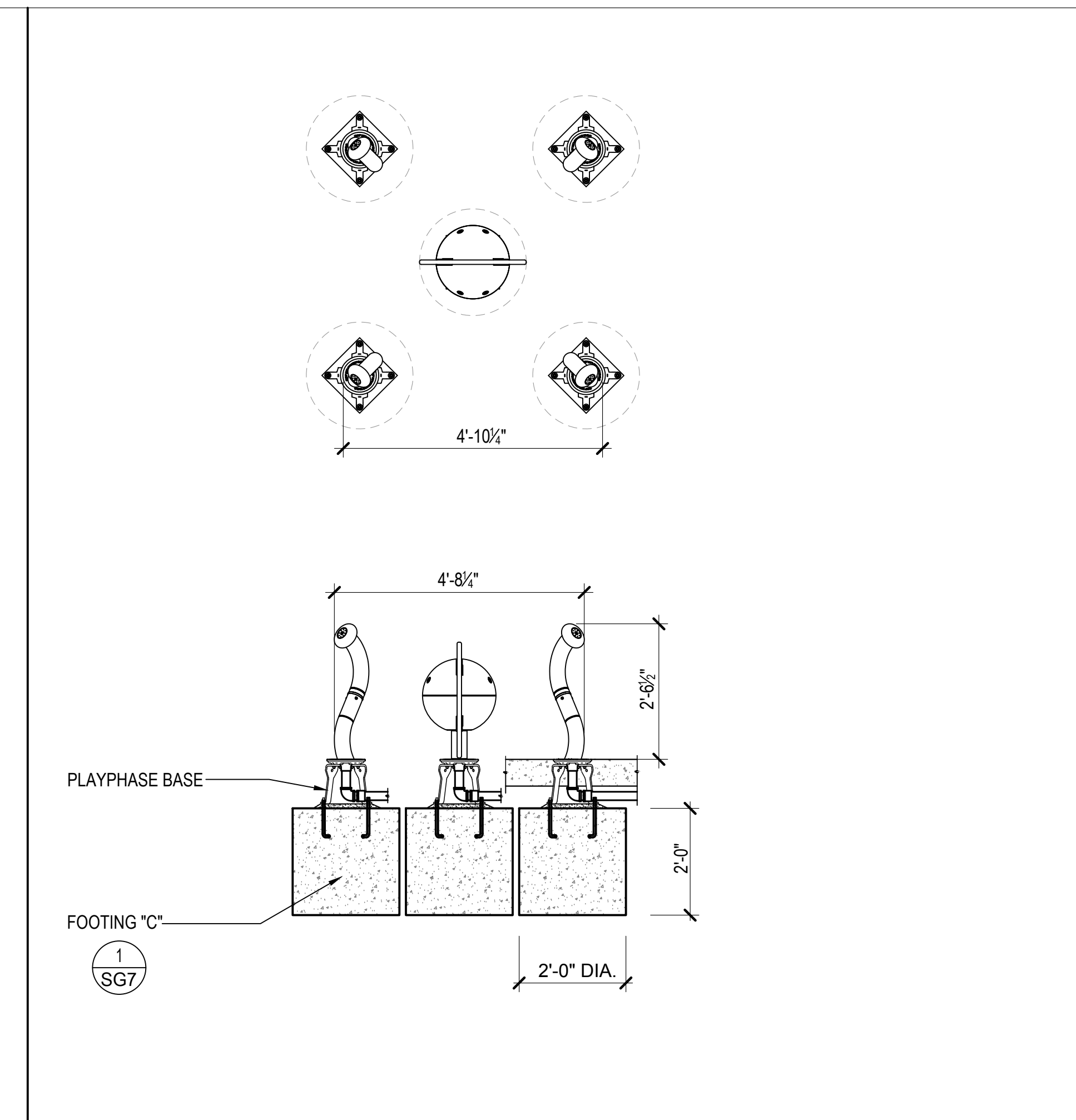
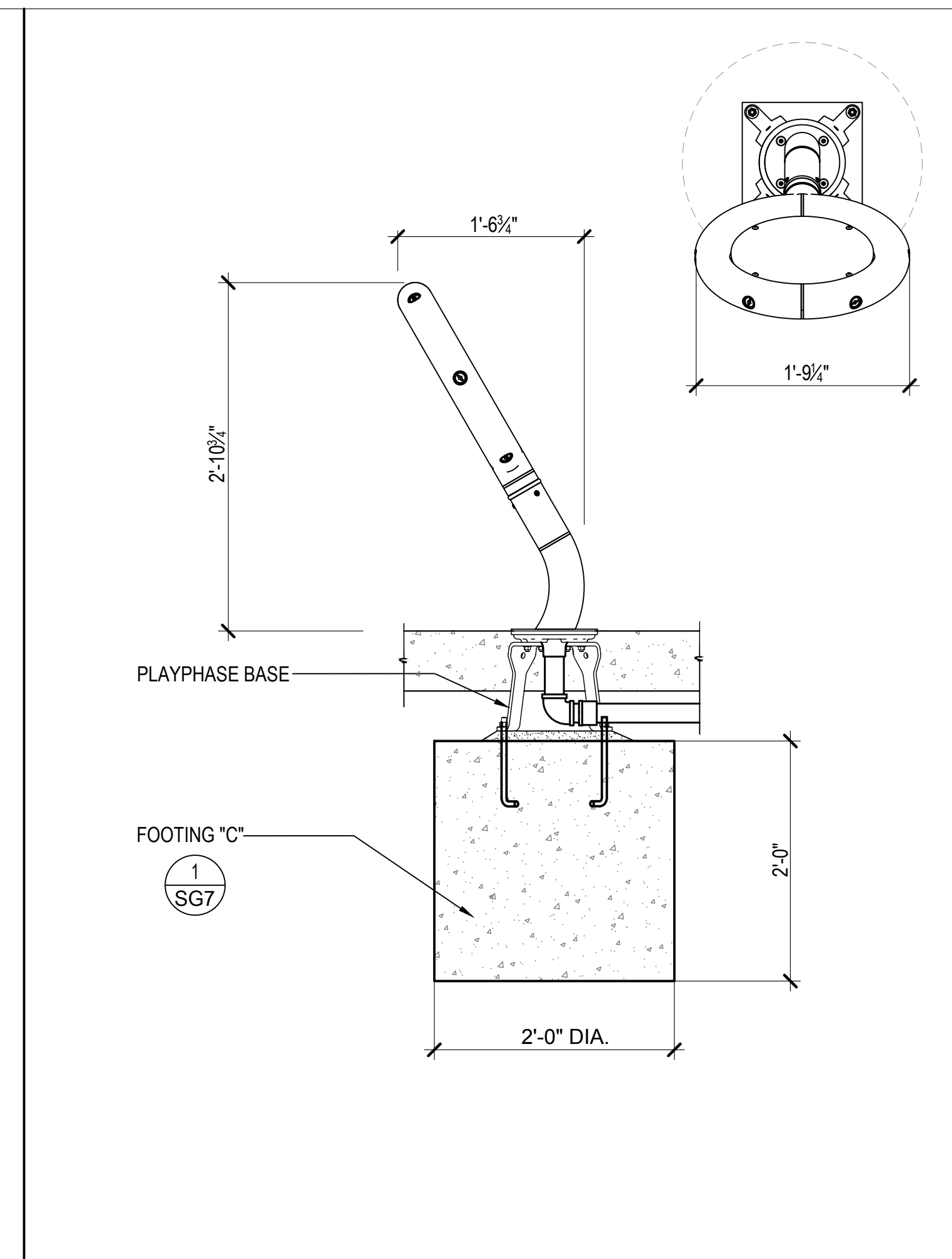
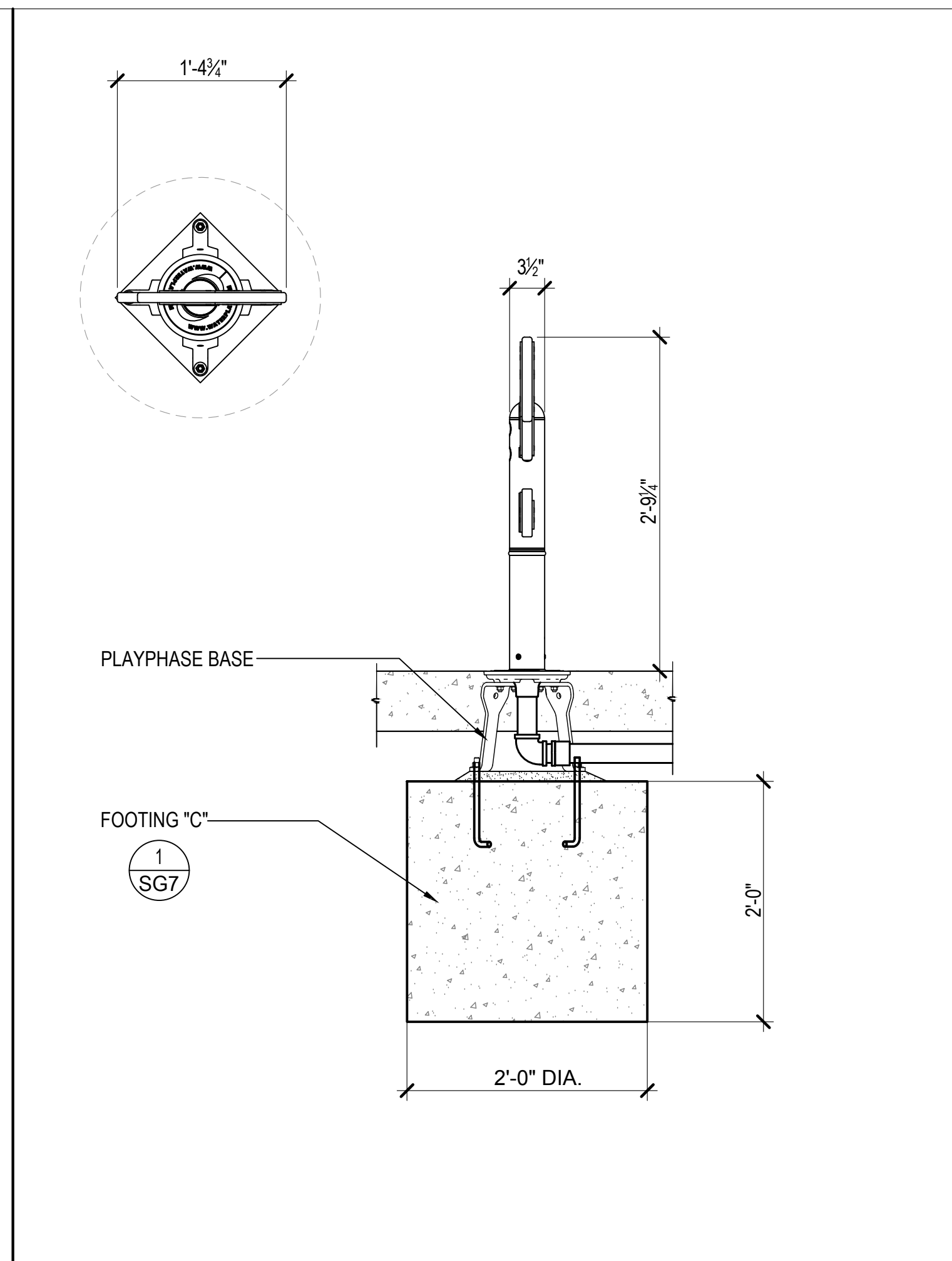
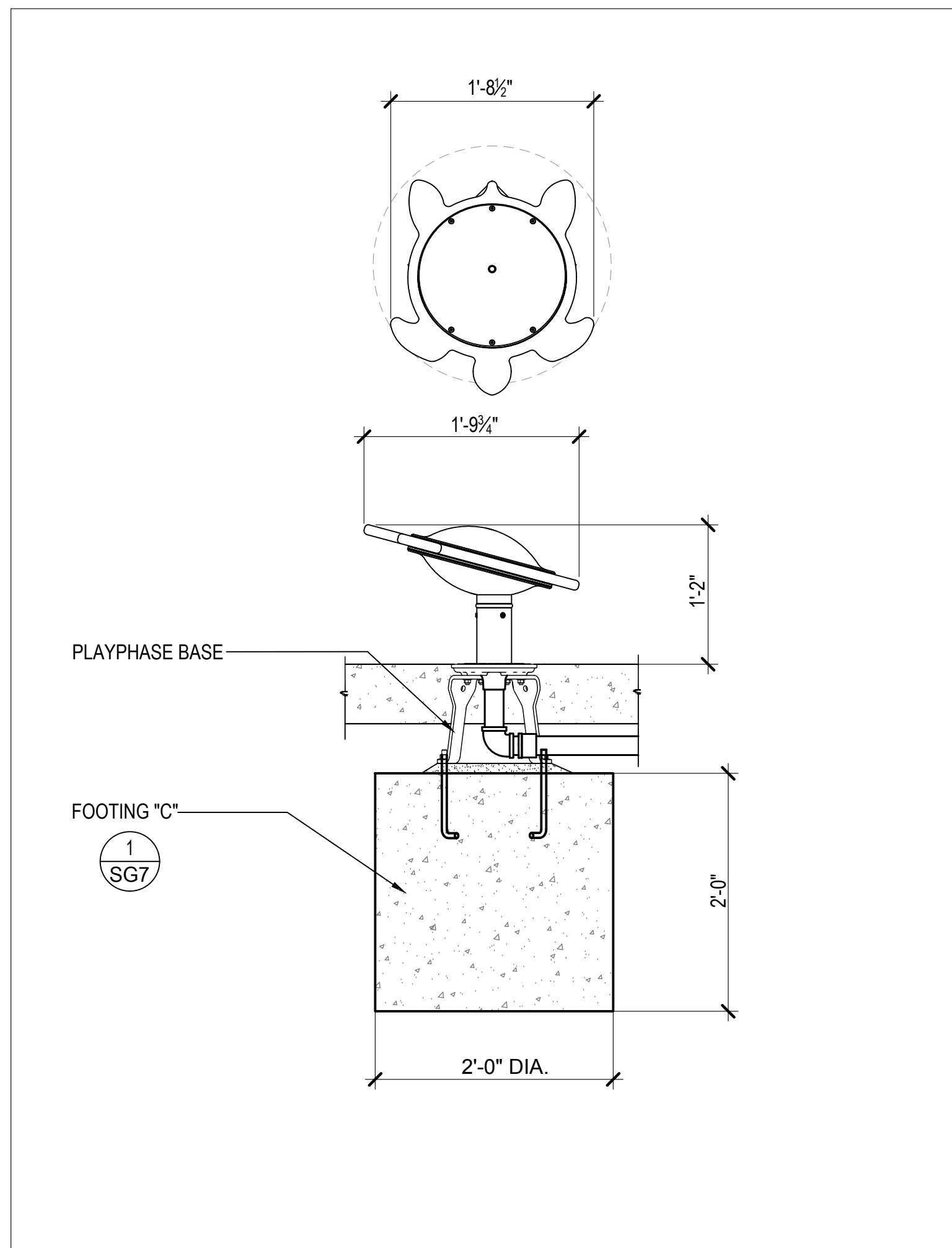
DATE: _____

REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
ARCHITECTURAL			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	
SCALE: AS INDICATED		DRAWN BY:	
CHECKED BY:		SHEET NO.:	
PROJECT NO.: P570000		PROPOSAL NO.: P570003	

NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

SG9
 DETAILS

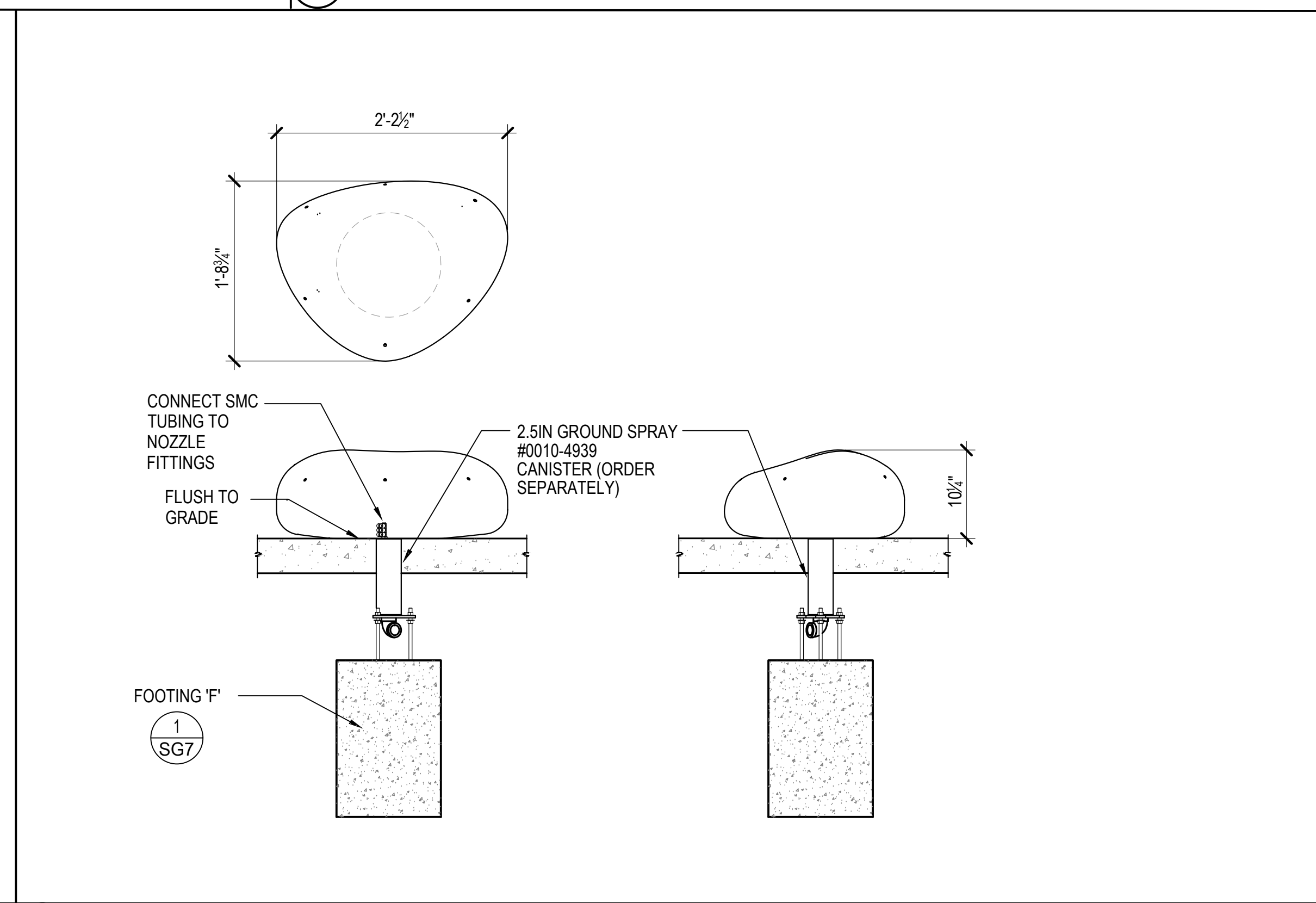
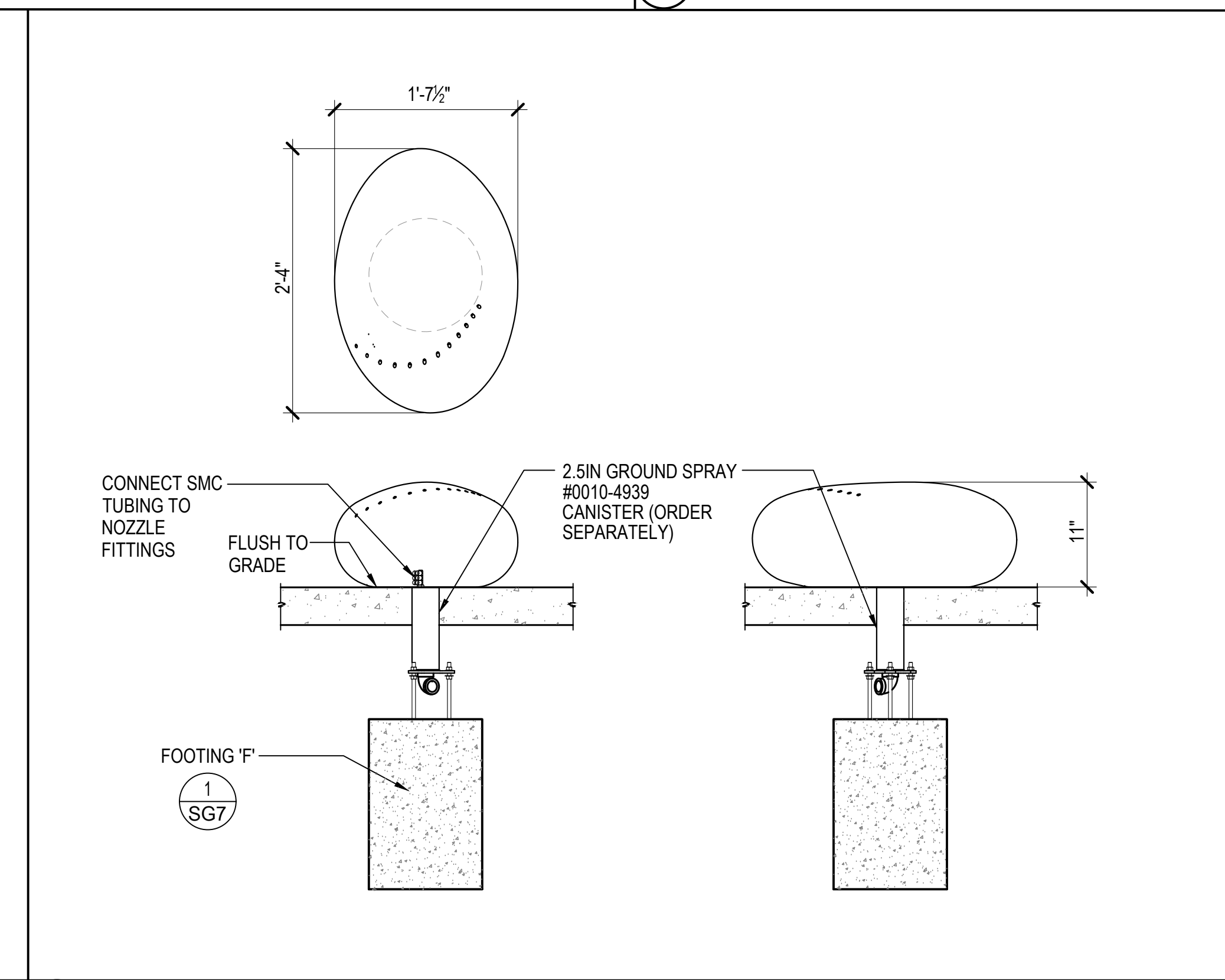
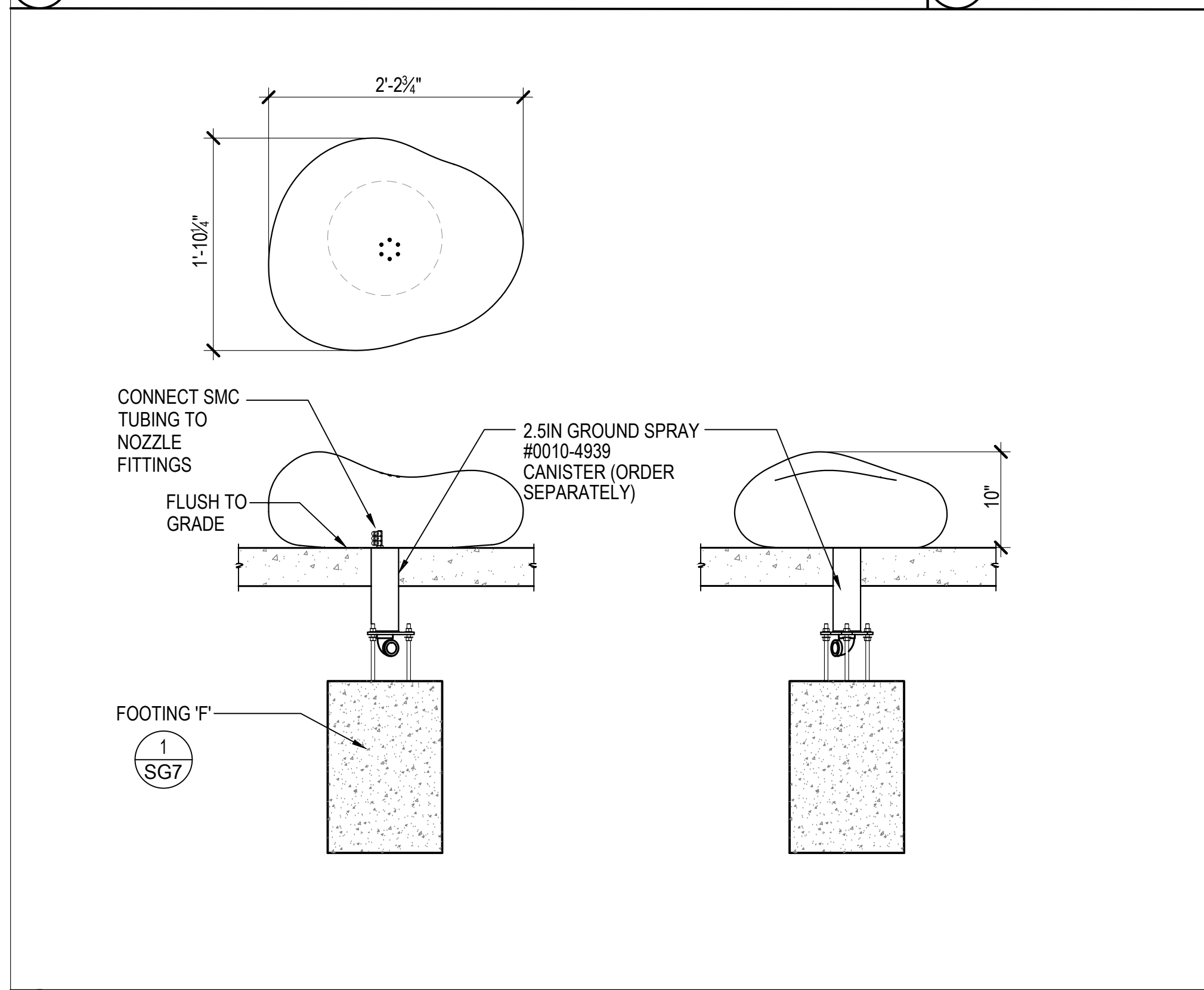


1 SNAPPER 1 1"=1'-0"

2 SHARK 1"=1'-0"

3 MAGNIFEYE 1"=1'-0"

4 OCTOPUS 1/2"=1'-0"

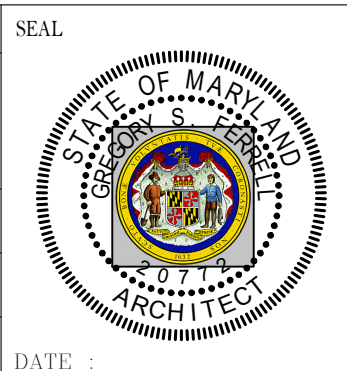


5 SURF STONE 1 1"=1'-0"

6 SURF STONE 2 1"=1'-0"

7 SURF STONE 3 1"=1'-0"

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024
 ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS 6880 PINELAKE DRIVE WHITE MARSH, MARYLAND 21152 (P) 301-441-9400
 DGN BY: _____
 DWN BY: _____
 CHKD BY: _____ DATE: _____



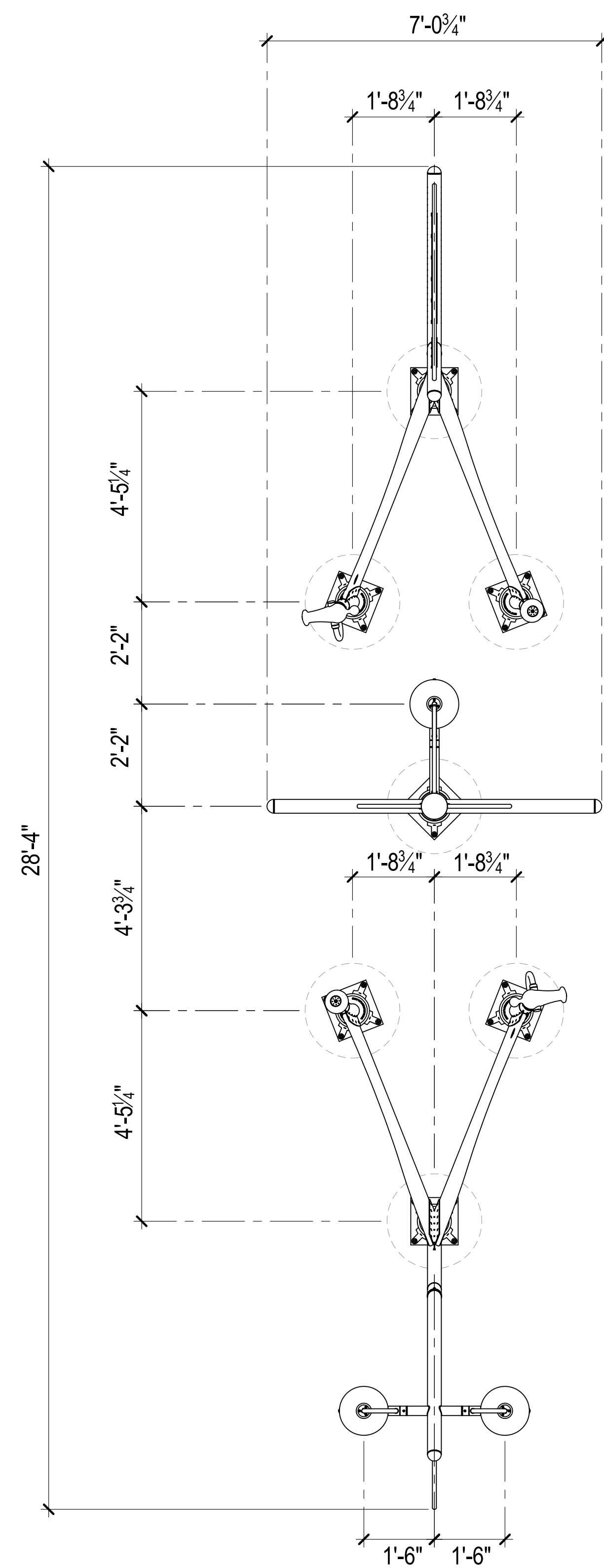
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

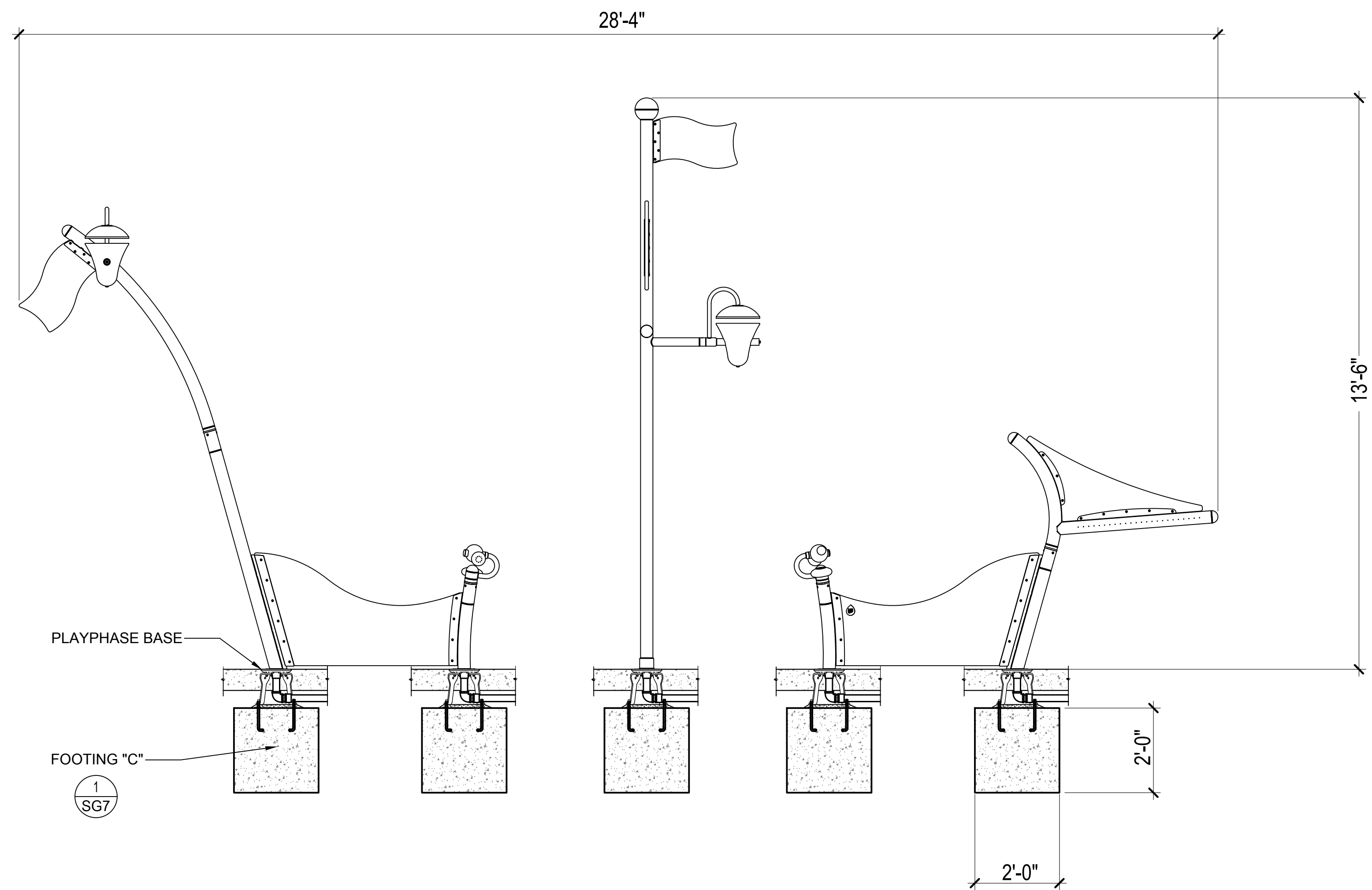
SCALE, AS INDICATED	DATE
ARCHITECTURAL	
DRAWN BY:	
CHECKED BY:	
SHEET NO.:	
PROJECT NO.: P570000	
PROPOSAL NO.: P570003	

NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

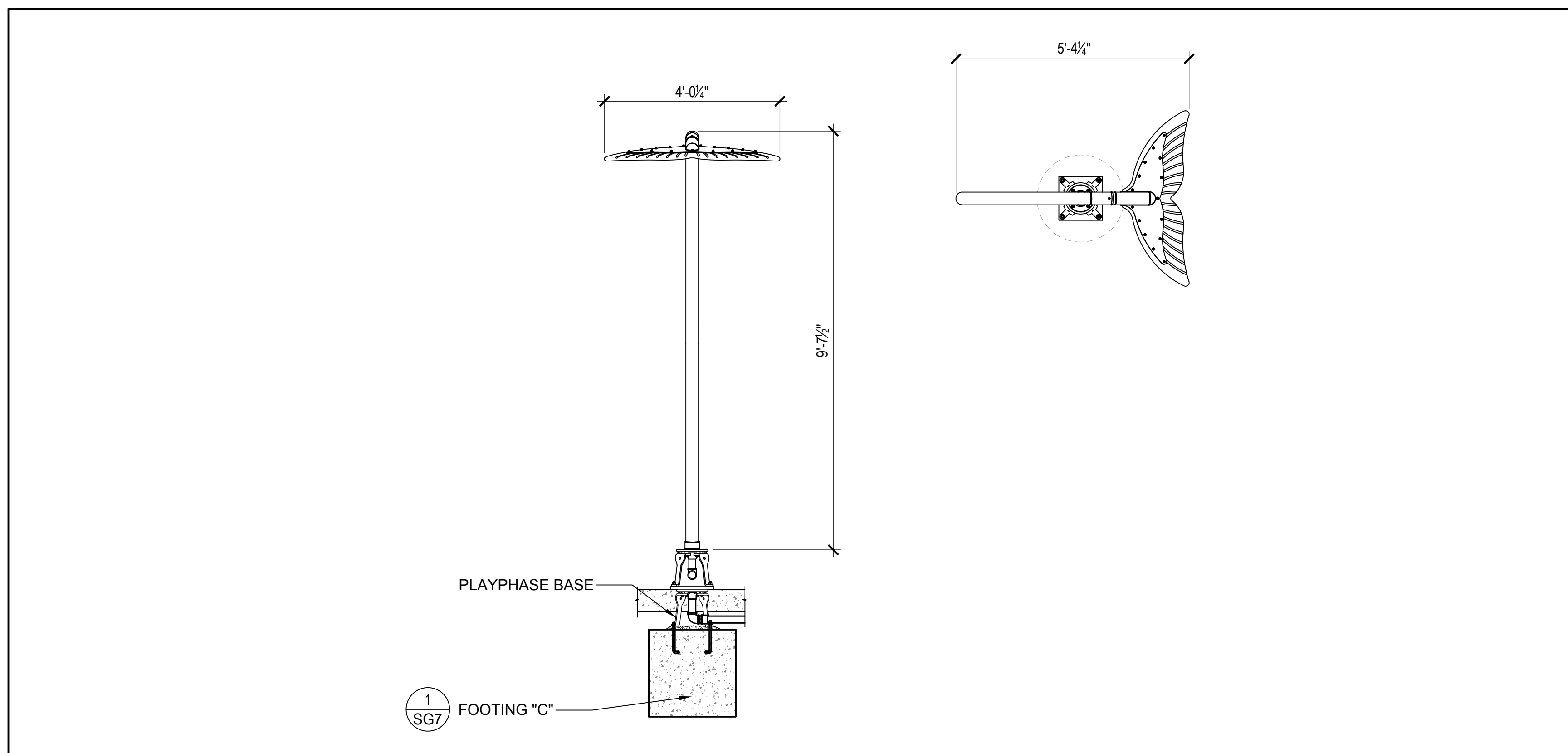
SG10
 DETAILS



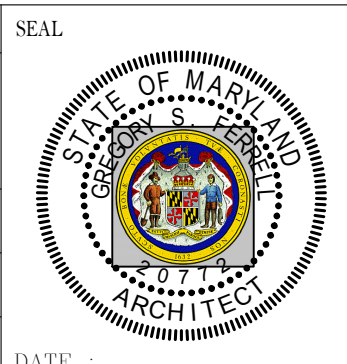
1 **SCHOONER 2** 1/2"=1'-0"



2 **WHALE TAIL** 1/2"=1'-0"



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024
 ARCHITECT: DAVID WOODWARD, AIA
 PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS
 60800 PEARL RIVER ROAD
 WHITE MARSH, MARYLAND 21152
 (P) 410-343-1400
 DGN BY: _____
 DWN BY: _____
 CHKD BY: _____
 DATE: _____



REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

APPROVED			
DATE	APPROVED	DATE	APPROVED
	PROJECT MANAGER		APPROVED
	CHIEF ENGINEER		APPROVED
	ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	
SCALE: AS INDICATED	ARCHITECTURAL
DRAWN BY:	
CHECKED BY:	
SHEET NO.:	
PROJECT NO.: P570000	
PROPOSAL NO.: P570003	

NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

SG11

DETAILS

LEGEND

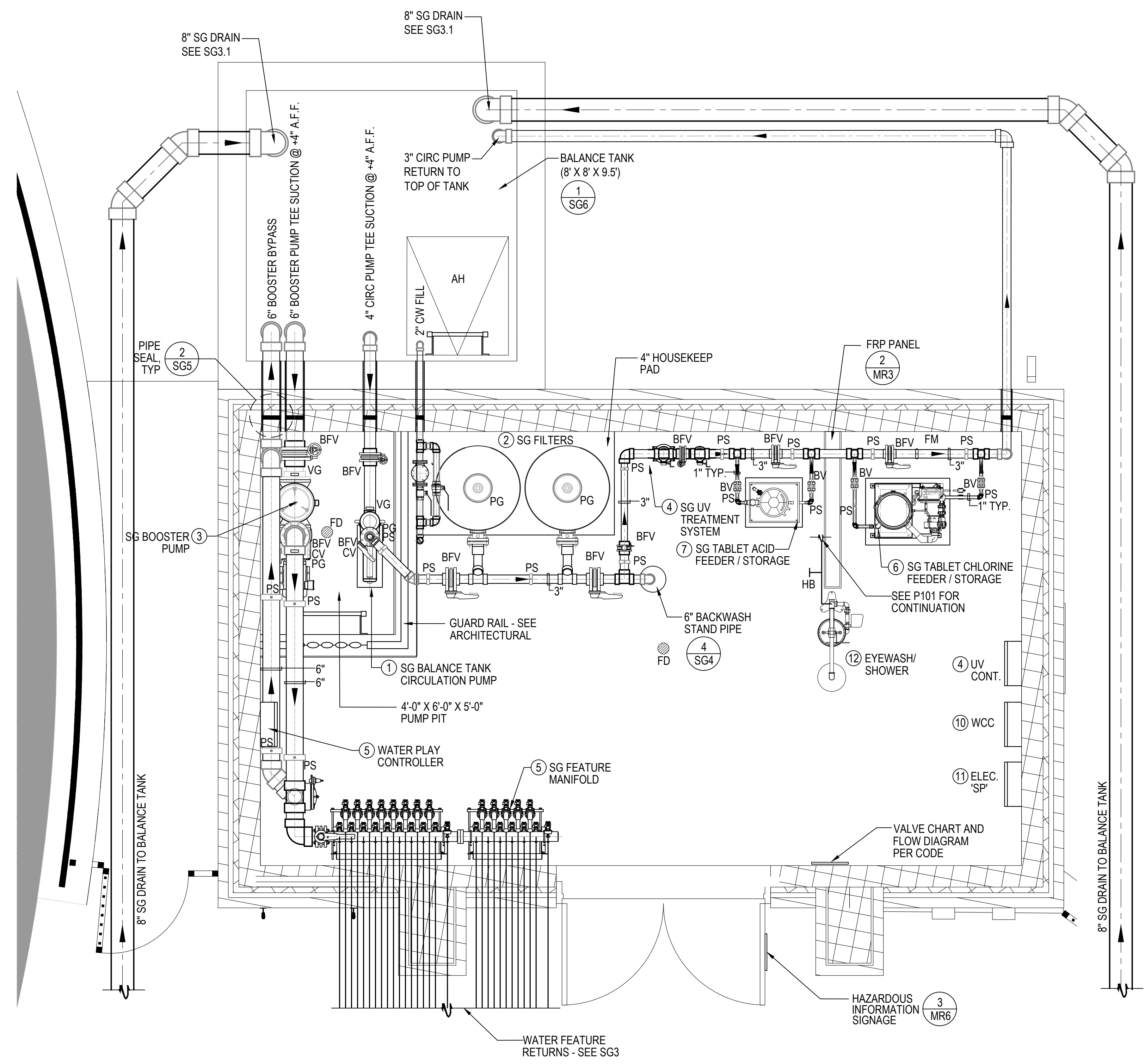
- BV = BALL VALVE
- BFV = BUTTERFLY VALVE
- CV = CHECK VALVE
- BW = BACKWASH
- HB = HOSE BIB
- FM = FLOWMETER
- AI = ACID INJECTION
- CI = CHLORINE INJECTION
- PS = PIPE SUPPORT
- PG/VG = VACUUM / PRESSURE GAUGE
- FD = FLOOR DRAIN
- SG = SPRAY GROUND
- AH = ACCESS HATCH

GENERAL NOTES

1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS MOUNTED WITHIN THE MECHANICAL ROOM.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME
4. ALL PLUMBING BELOW GRADE SHALL BE SCH 40 PVC AND ALL PLUMBING ABOVE GRADE SHALL BE SCH. 80 PVC PIPE, UNLESS NOTED OTHERWISE.
5. MECHANICAL ROOM AND PLUMBING IS SCHEMATIC IN NATURE. POOL CONTRACTOR TO COORDINATE MECHANICAL EQUIPMENT PLACEMENT, UTILITIES, EQUIPMENT PADS, DISCONNECTS, EQUIPMENT INTERCONNECTIONS, PLUMBING SUPPORTS AND ALL NECESSARY APPURTENANCES FOR A FULLY FUNCTIONAL, CODE COMPLIANT SYSTEM
6. MECHANICAL ROOM SHALL BE EXHAUSTED A MIN. 8-10 AIR CHANGES PER HOUR AND SHALL EXHAUST WITHIN 18" A.F.F.

EQUIPMENT LIST

- 1 SPRAY GROUND BALANCE TANK CIRCULATION PUMP: 'JANDY' SHP SERIES SHPF3.0; 3PH, 3HP, 208V; RATED AT 176 GPM AT 60 FT TDH WITH INTEGRAL STRAINER. ONE (1) PUMP TOTAL W/ TWO (2) STRAINER BASKETS. (201 lbs.) PROVIDE WITH ACCU-DRIVE 3HP VARIABLE FREQUENCY DRIVE #AD030X-2303-N4X WITH DISCONNECT AND FLOW SENSOR KIT. ONE (1) TOTAL. VFD SHALL BE FACTORY PROGRAMMED WITH A USER LOCKOUT AND THE FOLLOWING FLOW RATES
 - A NORMAL OPERATING SPEED OF 133 GPM
 - A EVENING ENERGY SAVING MODE FOR AFTER HOURS USE ONLY
 - A BACKWASH FLOW RATE OF 270 GPM.
- 2 SPRAY GROUND BALANCE TANK FILTER(S): 'JANDY' ASTER #27802-S3 HI-RATE PERMANENT MEDIA FILTERS WITH 9.5 SQ. FT. OF FILTER AREA RATED AT 142 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 3" MANIFOLD AND VALVED TOGETHER, 3" BACKWASH, W/ 4" EQUIPMENT PAD AND ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING, ETC. TWO (2) TANKS TOTAL. (530 LBS. EACH)
- 3 SPRAY GROUND BOOSTER PUMP: 'JANDY' JCP SERIES. JCP 07-3AT-S, 7.5HP, 208V 3PH. SELF PRIMING PUMP, 3450 RPM RATED AT 390 GPM AT 60 FT. TDH. WITH INTEGRAL STRAINER. ONE (1) TOTAL. (346lbs.) INTERCONNECT WITH CIRCULATION PUMP SO IT CAN ONLY OPERATE WHEN CIRCULATION PUMP IS ON
- 4 SPRAY GROUND ULTRA VIOLET TREATMENT SYSTEM: 'EVOQUA' WAFER UV MODEL WF-115-3-N. VALIDATED AT 242 GPM, 3" FLANGED CONNECTION IN-LINE UV WITH ONE (1) LAMP @ 1,500 WATTS, 208V 1PH. CONTROL UNIT: 208V 1PH, 20"x20"x10" DEEP. (121lbs.) PROVIDE PIPING BYPASS, VALVING, ETS EZ VALVE STRAINER AND INSTALLATION AND PIPING PER MANUFACTURER'S RECOMMENDATIONS. ONE (1) SYSTEM TOTAL.
- 5 SPRAY GROUND FEATURE MANIFOLD (LOCATED AT REMOTE MECHANICAL ROOM ADJACENT TO WET PLAY): STAINLESS STEEL 30 STATION MANIFOLD WITH SOLENOID VALVES, INDIVIDUAL ISOLATION VALVES AND 6" PRESSURE SUSTAINING SOLENOID VALVE. ENTIRE SYSTEM MUST BE PROVIDED WITH LEAK DOWN WINTERIZATION MEASURES AND PRE-PROGRAMMED WATER SHOW CONTROLLER.
- 6 SPRAY GROUND TABLET CHLORINE FEEDER / STORAGE: 'PPG' ACCU-TAB POWERBASE CHLORINATION UNIT MODEL 1030 AT WITH 67.2lbs/DAY OUTPUT, 30 lb. STORAGE. COMPLETE WITH PIPING, VALVING, VENTURI INJECTION AND 3/4 HP BOOSTER PUMP. NSF 50 CERTIFIED. ONE (1) TOTAL.
- 7 SPRAY GROUND TABLET ACID FEEDER / STORAGE: PPG 'ACID-RITE' UNIT MODEL AR-450, 45lb. STORAGE. COMPLETE WITH PIPING, VALVING, VENTURI INJECTION AND 3/4HP BOOSTER PUMP. NSF 50 CERTIFIED. ONE (1) TOTAL.
- 8 SPRAY GROUND FILL SYSTEM: SPRAY GROUND FILL SYSTEM: 2" LEVELOR' FILL SYSTEM TO INCLUDE 2" SOLENOID CONTROL VALVE W/ BRONZE BODY, 12V. SOLENOID WIRING SHALL BE WIRED TO AND CONTROLLED BY LEVELOR KI1100 WATER LEVEL CONTROLLER WITH WATER LEVEL SENSOR TO BALANCE TANK, PROVIDE 2" AIR GAP AT FILL POINT.
- 9 FLOWMETER(S): 'SIGNET' #515 DIGITAL FLOW METER WITH WALL MOUNTED READOUT INTEGRATED INTO PUMP VFD CONTROLLER. ONE (1) TOTAL.
- 10 SPRAY GROUND WATER CHEMISTRY CONTROLLER: PROVIDE ONE (1) BECSysRCM COMMUNICATION MODULE AND DEDICATED ETHERNET LINE FOR ONE (1) 'BECSys 5'. INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. ONE (1) TOTAL. CONTRACTOR TO COORDINATE WITH OWNER TO SUPPLY A NEW ETHERNET LINE FROM EXISTING SITE INFRASTRUCTURE OR PULL NEW SERVICE FROM INTERNET PROVIDER.
- 11 ELECTRICAL: 100AMP PANEL 'SP' - PROVIDE ALL ELECTRICAL WIRING, CONDUIT, PANEL(S), STARTER/DISCONNECT INTERCONNECT(S) ETC. AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS AND SHOP DRAWINGS. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED. REFER TO ELEC. PLANS FOR ALL ADDITIONAL INFO. ALL UNDERWATER LIGHTS TO BE CONTROLLED VIA 24HR. TIME CLOCK. SWIMMING POOL.
- 12 EYEWASH/SHOWER: HAWS MODEL #8309WC BARRIER FREE COMBINATION SHOWER AND EYE/FACE WASH WITH CORROSION RESISTANT PROTECTION. SEE MEP SHEETS FOR SUPPLY PIPING. ONE (1) TOTAL. FOR REFERENCE ONLY. 'SP' PANEL SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 SPRAY GROUND - MECHANICAL ROOM LAYOUT
1/2" = 1'-0"

PROFESSIONAL CERTIFICATION	
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.	
LICENSE NO. 15505	EXPIRATION DATE: 08-18-2024
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT	DGN BY: _____
MANN'S WOODWARD STUDIOS 60800 PINEBELLE DRIVE WHITE MARSH, MARYLAND 21152 (P) 410-343-1400	DWN BY: _____
	CHKD BY: _____
	DATE: _____



REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

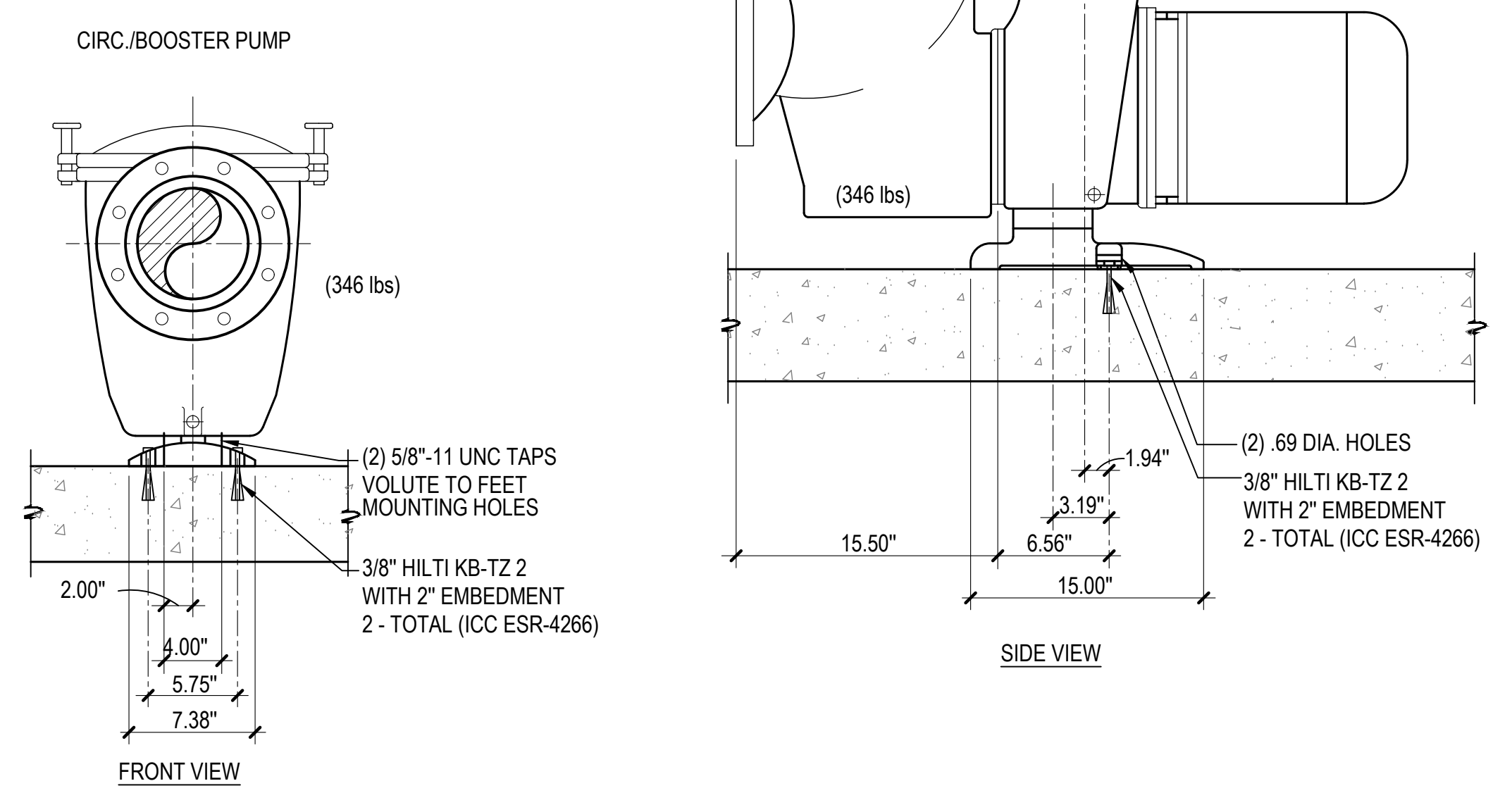
APPROVED			
DATE	APPROVED	DATE	APPROVED
	CHIEF ENGINEER		PROJECT MANAGER
	APPROVED		APPROVED
	ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

ARCHITECTURAL

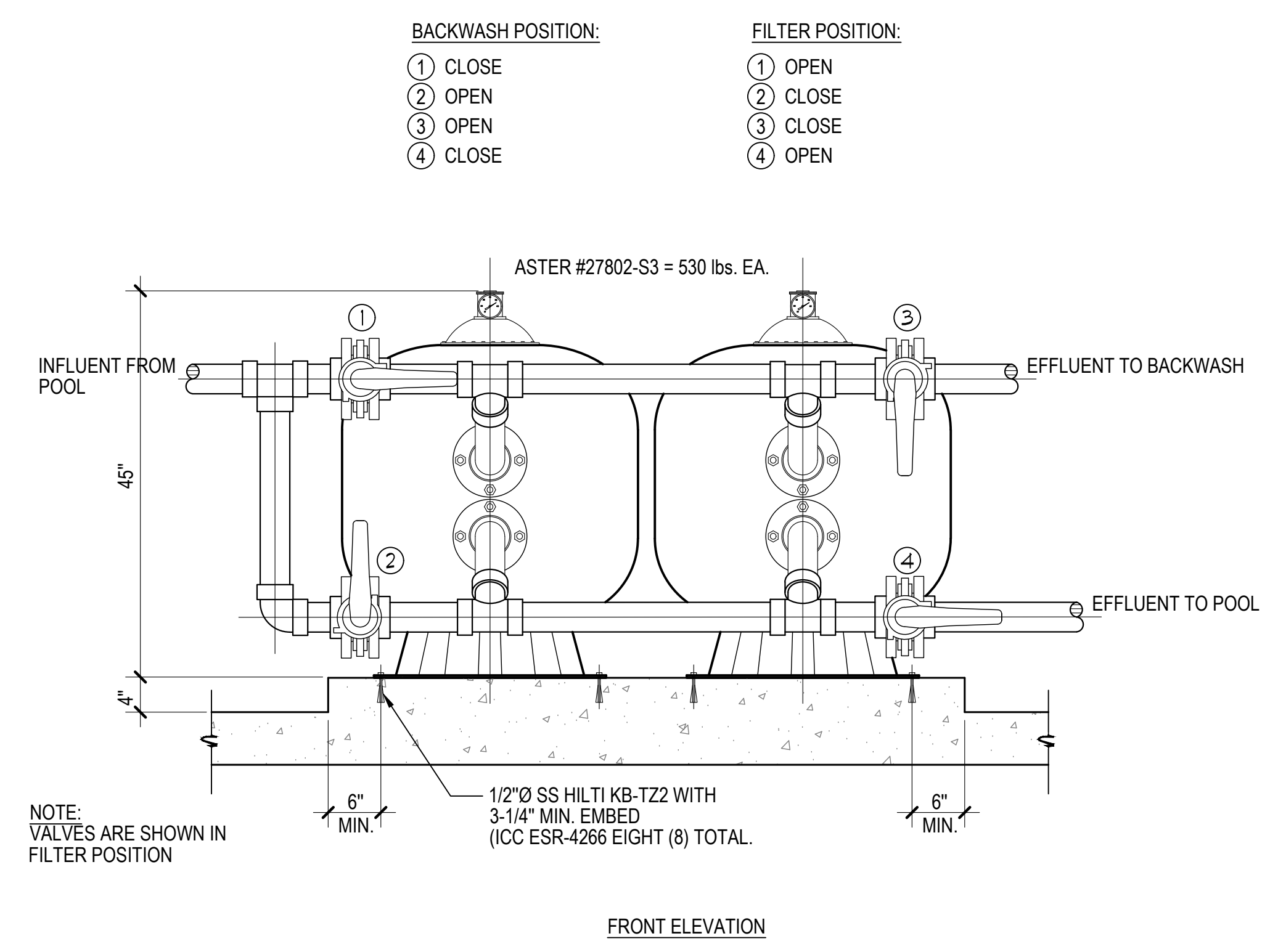
NORTH ARUNDEL SWIM CENTER - SPLASH PADS
ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

MR1
MECHANICAL ROOM LAYOUT



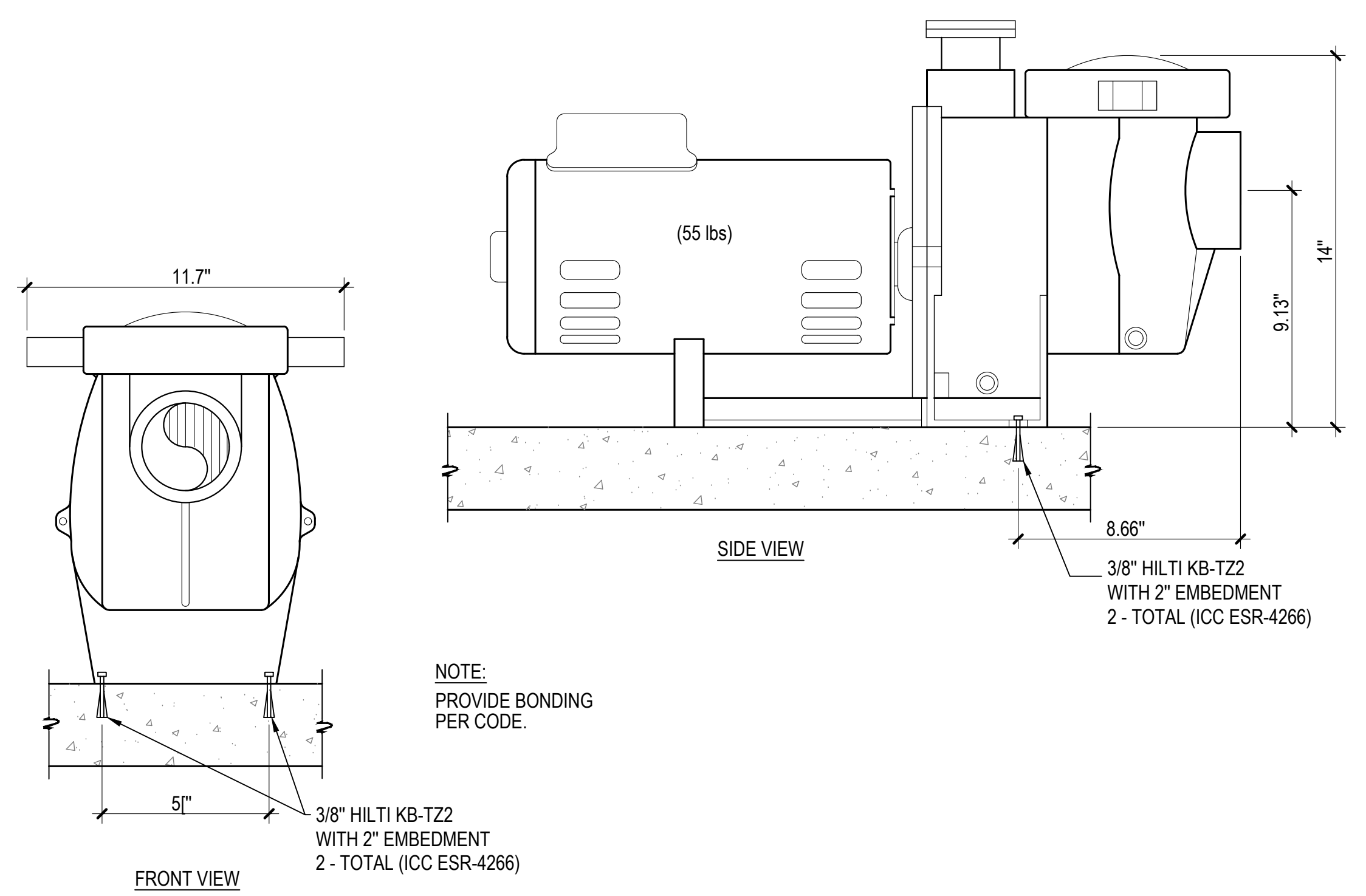
1 BOOSTER PUMP ANCHORAGE

NO SCALE



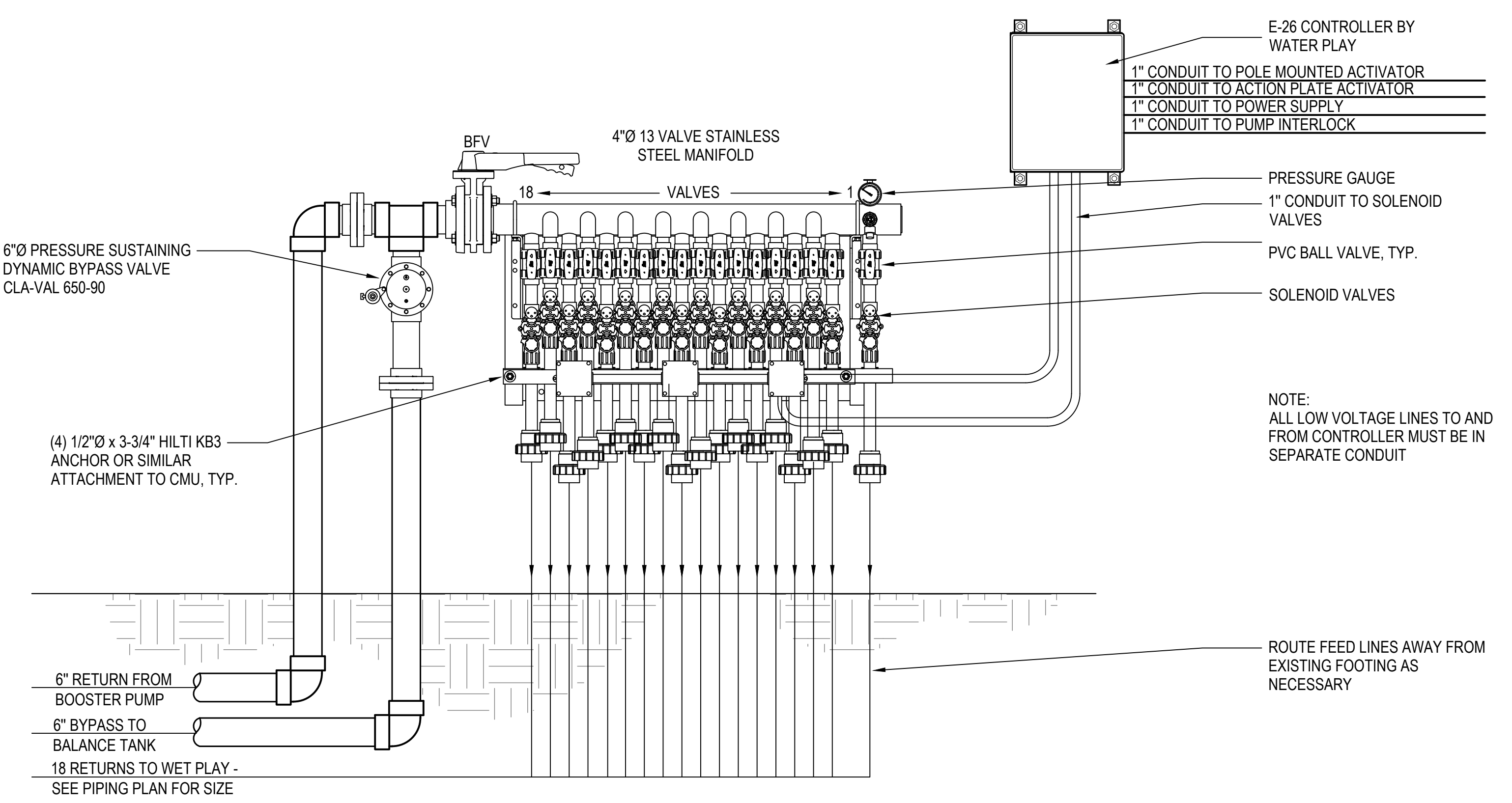
2 FILTER ANCHORAGE

NO SCALE



3 CIRCULATION PUMP ANCHORAGE

NO SCALE



4 WALL MOUNTED COMMAND CENTER AND MANIFOLD

3/4"=1'-0"

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024
 ARCHITECT: DAVID WOODWARD, AIA, PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS, 6800 PINEBELLE DRIVE, WHITE MARSH, MARYLAND 21152
 DGN BY: _____
 DWN BY: _____
 CHKD BY: _____
 DATE: _____

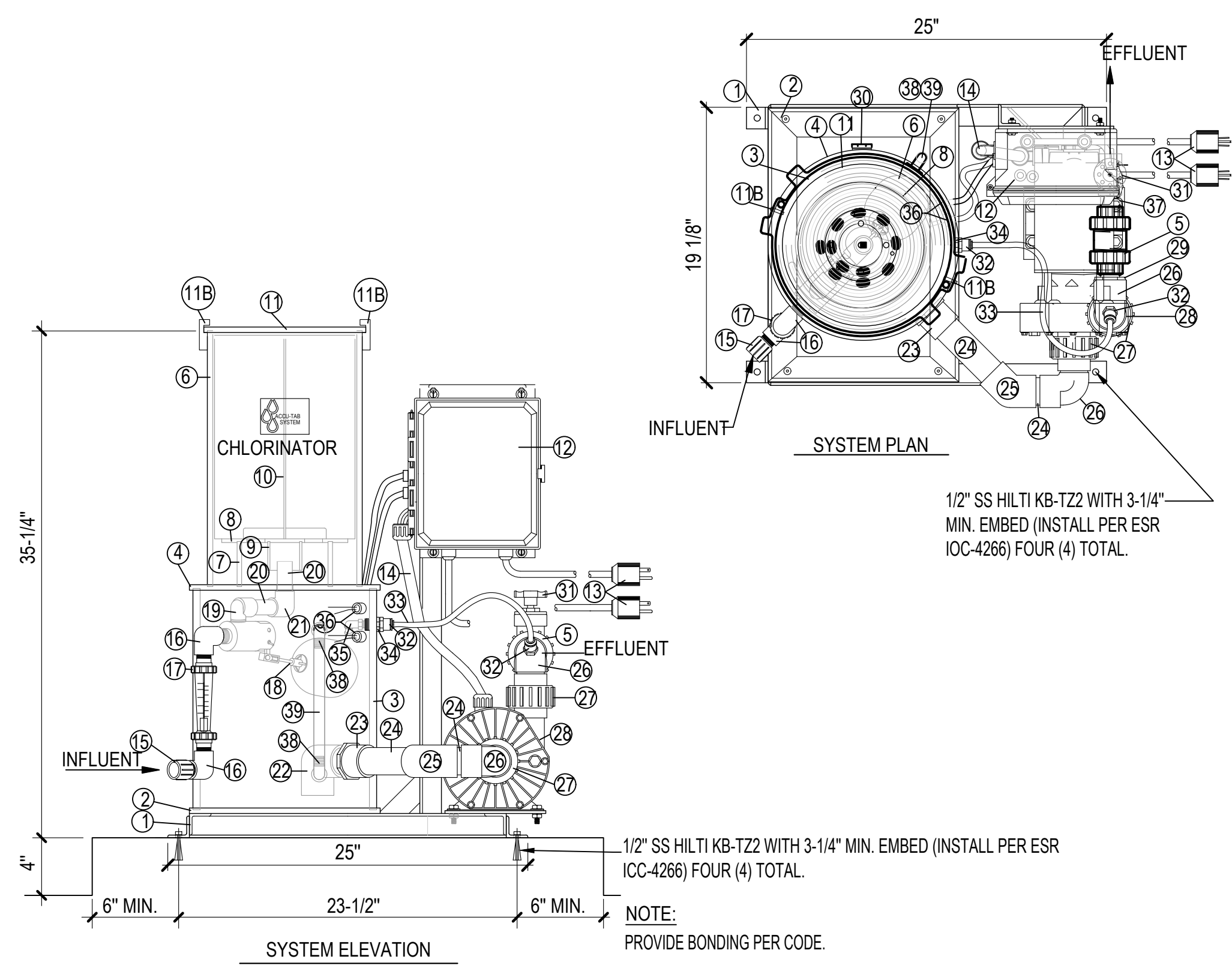


REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

APPROVED		DATE	
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

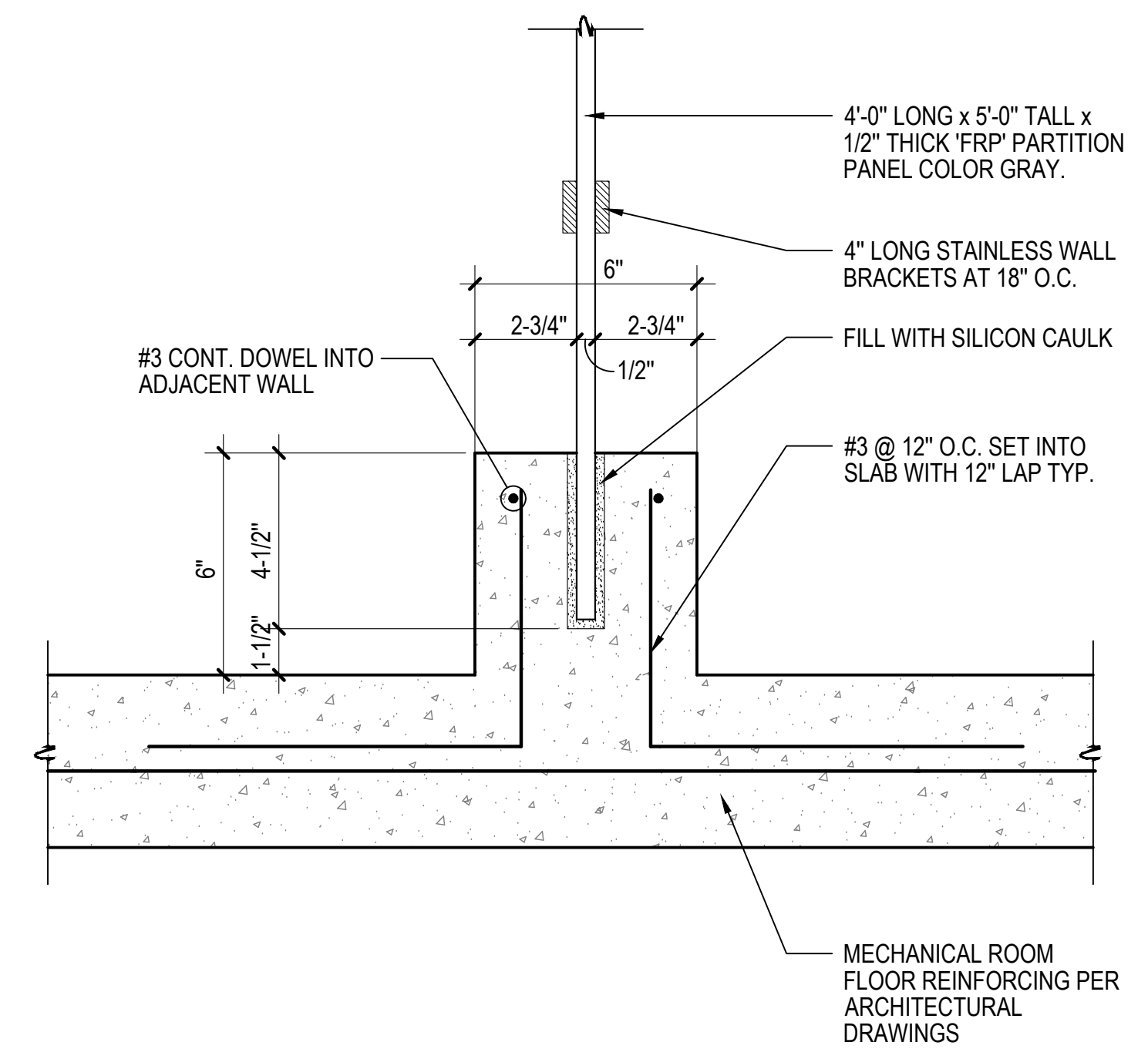
ANNE ARUNDEL COUNTY
 DEPARTMENT OF PUBLIC WORKS
 ARCHITECTURAL
 NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

MR2
 DETAILS



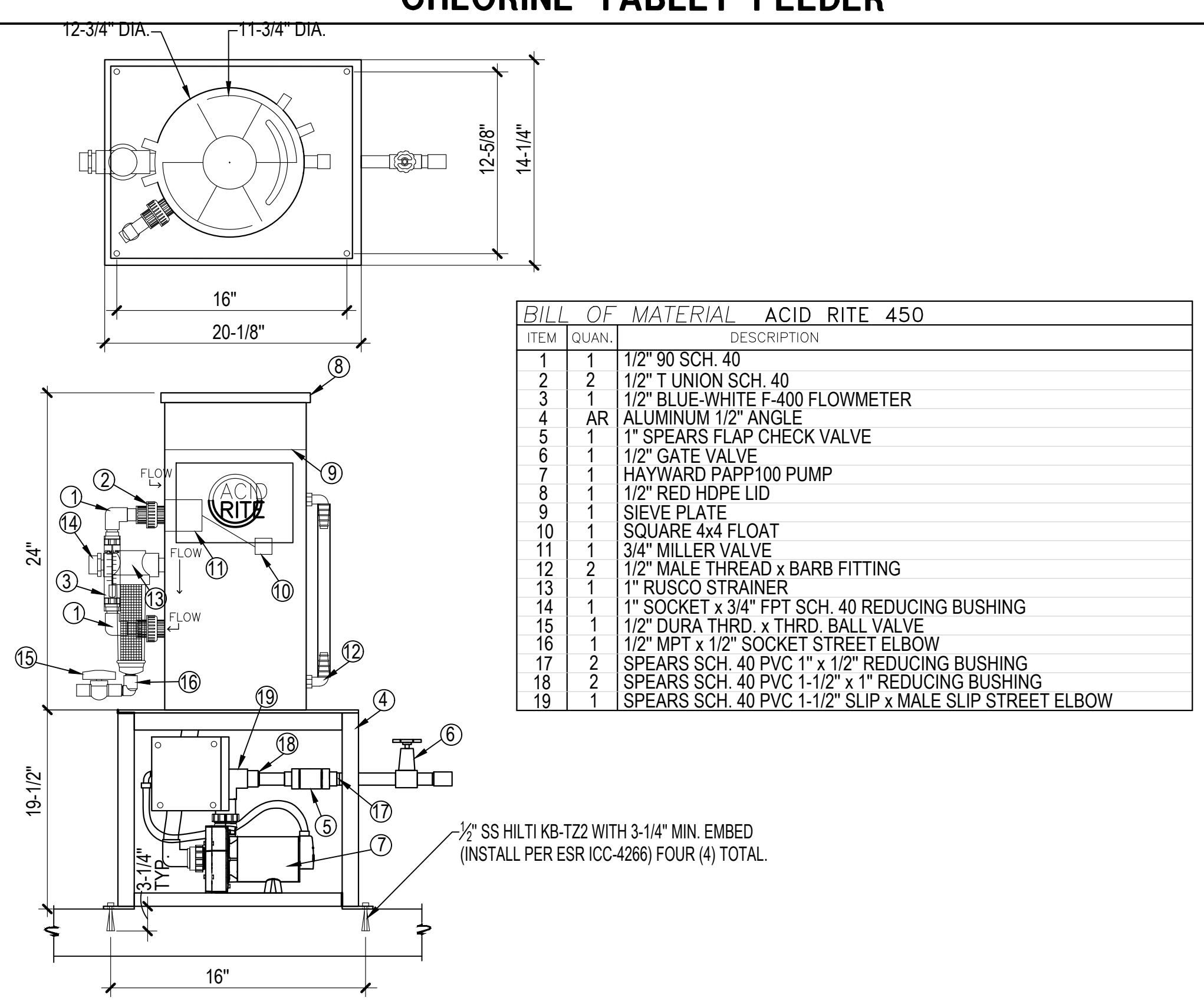
BILL OF MATERIAL		PowerBase1030
ITEM	QUAN.	DESCRIPTION
1	1	19-1/2" x 22" ALUMINUM 1-1/2" ANGLE FRAME WITH ELECTRICAL PANEL & MOTOR BRACKETS & ANCHOR ANGLES
2	1	13-1/4"x19"x3/8" PVC TANK BASE W/ 4 FASTENERS
3	1	12" SCH 40 PVC PIPE SOLUTION TK. BODY x +/- 15-3/8" LG.
4	1	13-1/4" DIA. x 3/8" PVC DIVIDER PLATE
5	1	1" SPEARS FLAP CHECK VALVE
6	1	10" SCH 40 PVC PIPE CHLORINATOR TK. BODY X ;17-1/2"LG.
7	1	6" SCH 40 PVC PIPE SIEVE PLATE SUPPORT x +/- 3-1/8"LG.
8	1	3/4" SPIRAL SIEVE PLATE
9	1	2" SCH 40 PVC PIPE DIVERTER X +/- 2"LG.
10	1	STACKING CARTRIDGE
11	1	11-1/4" DIA. x 3/8" PVC CHLORINATOR LID PLATE
11B	2	LOCKING TABS
12	1	ELECTRICAL CONTROL PANEL W/ 4 BOLTS, WASHERS & NUTS
13	2	+/- 8FT ELECTRICAL CORD WITH 3-PRONG PLUG
14	1	ELECTRICAL CONDUIT WITH (2) CONNECTORS
15*	1	SPEARS SCH. 40 PVC 1" x 3/4" MALE ADAPTOR
16*	2	SPEARS SCH. 40 PVC 3/4" THD. x TRD. 90 DEG. ELBOW
17*	1	3/4" BLUE & WHITE FLOWMETER MODEL F-44750LH-12
18	1	3/4" MILLER TANK MOUNT FLOAT VALVE W/ 4" BALL FLOAT
19	1	SPEARS SCH. 40 PVC 3/4" STREET ELBOW
20	2 PCS	3/4" SCH. 40 PVC PIPE
21	1	SPEARS SCH. 40 PVC 3/4" SLIP X SLIP 90° ELBOW BOOSTER PUMP PIPING
22	1	SPEARS SCH. 40 PVC 1-1/2" SLIP X THREAD 90 DEG. ELBOW
23	1	SPEARS SCH. 40 PVC 1-1/2" MALE ADAPTOR
24	AR	1-1/2" SCH. 40 PVC PIPE (+/- 10" TOTAL)
25	1	SPEARS SCH 40 PVC 1 1/2" SLIP X SLIP 45 DEG. ELBOW
26	2	SPEARS SCH. 40 PVC 1-1/2" SLIP X MALE SLIP STREET ELBOW
27	2	SPA-RITE PVC PUMP UNION HALF
28	1	HAYWARD 1 H.P., PAPP100, CHLORINE BOOSTER PUMP
29	1	SPEARS SCH. 40 PVC 1-1/2" x 1" REDUCING BUSHING
30	1	1" SCH. 40 PVC THD OVERFLOW DRAIN PLUG
31*	1	1" KBI PVC GATE VALVE
32	2	1/4" NPT. x 3/8" COMPRESSION SPEED FITTING
33	1	3/8" x 1/4" AIR VENT TUBING (+/- 16" LG.)
34	1	1/2" x 1/4" THD. x THD. PVC BUSHING
35	1	1/4" NPT. x 1/2" BARB 90 DEG. ELBOW
36	2	LEVEL SWITCHES
37	AR	1" PVC SCH. 40 PIPE
38	2	3/4" THREAD x BARB PVC ELBOWS
39	AR	3/4" CLEAR TUBING

NOTE * = SHIPS LOOSE

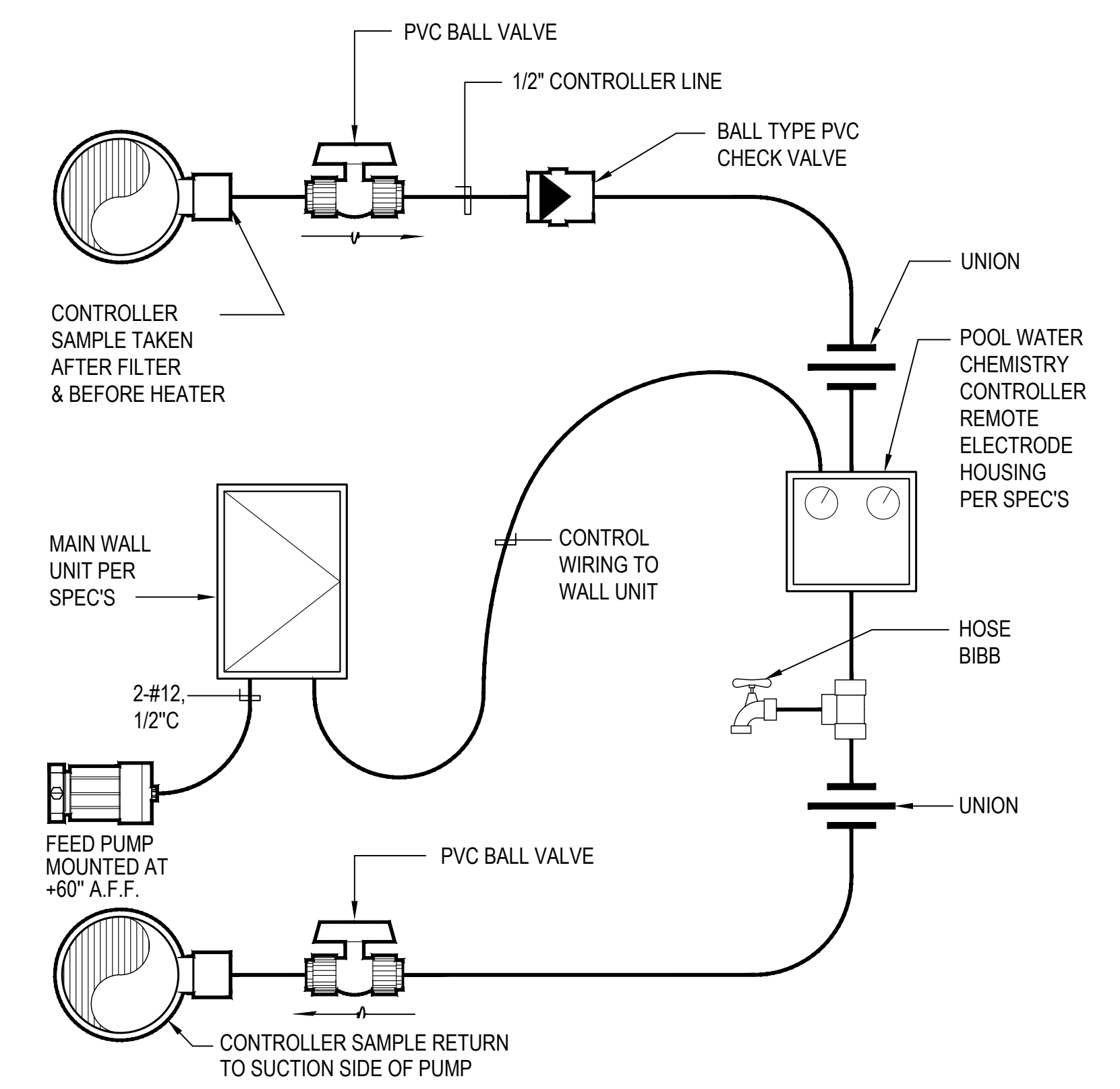


1 CHLORINE TABLET FEEDER 1-1/2"-1'-0"

2 FRP PANEL AND CURB DETAIL NO SCALE



BILL OF MATERIAL		ACID RITE 450
ITEM	QUAN.	DESCRIPTION
1	1	1/2" 90 SCH. 40
2	2	1/2" T UNION SCH. 40
3	1	1/2" BLUE-WHITE F-400 FLOWMETER
4	AR	ALUMINUM 1/2" ANGLE
5	1	1" SPEARS FLAP CHECK VALVE
6	1	1/2" GATE VALVE
7	1	HAYWARD PAPP100 PUMP
8	1	1/2" RED HDPE LID
9	1	SIEVE PLATE
10	1	SQUARE 4x4 FLOAT
11	1	3/4" MILLER VALVE
12	2	1/2" MALE THREAD x BARB FITTING
13	1	1" RUSCO STRAINER
14	1	1" SOCKET x 3/4" FPT SCH. 40 REDUCING BUSHING
15	1	1/2" DURA THRD. x THRD. BALL VALVE
16	1	1/2" MPT x 1/2" SOCKET STREET ELBOW
17	2	SPEARS SCH. 40 PVC 1" x 1/2" REDUCING BUSHING
18	2	SPEARS SCH. 40 PVC 1-1/2" x 1" REDUCING BUSHING
19	1	SPEARS SCH. 40 PVC 1-1/2" SLIP x MALE SLIP STREET ELBOW



3 ACID TABLET FEEDER NO SCALE

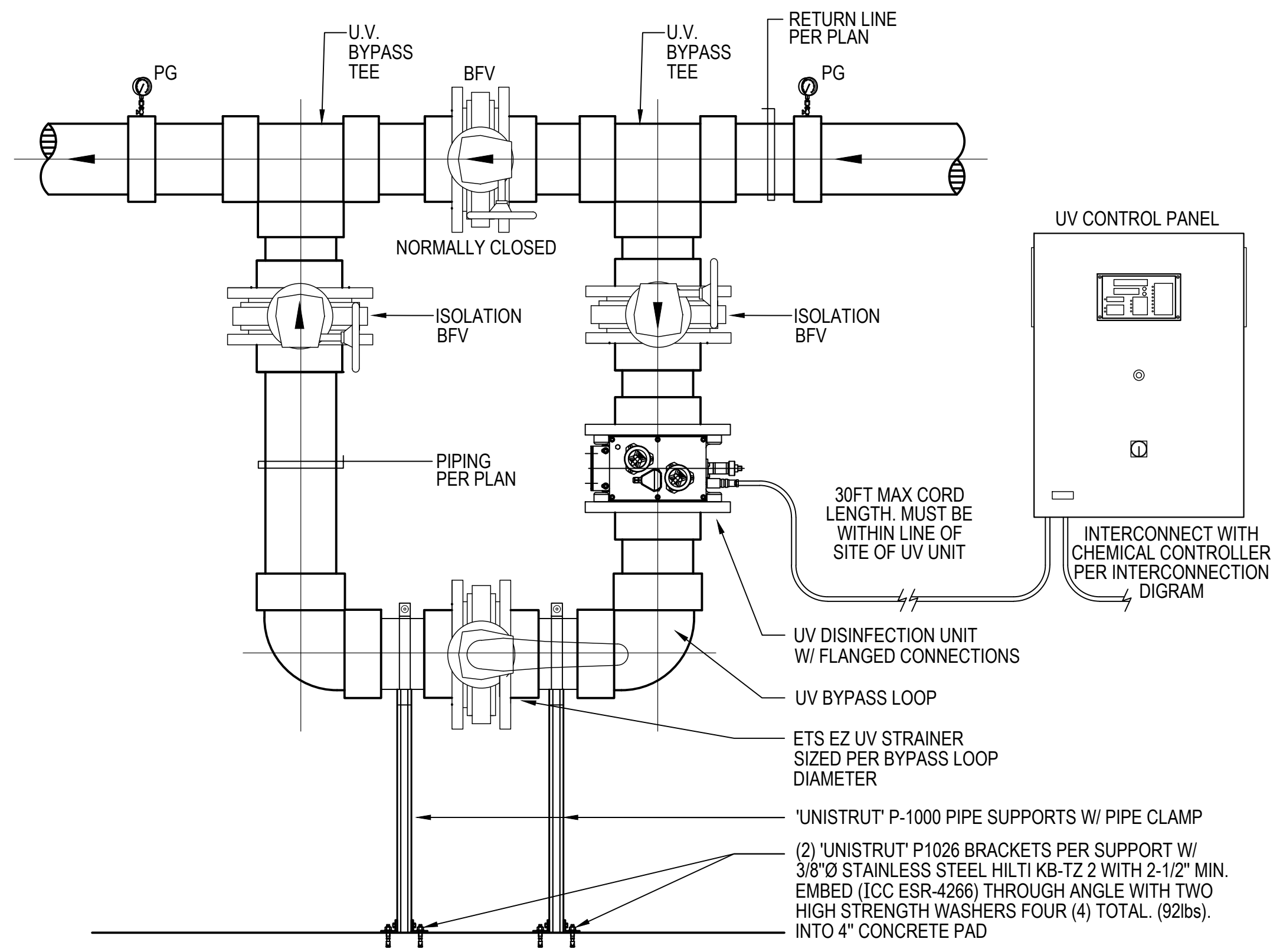
4 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024
 ARCHITECT: DAVID WOODWARD, AIA, PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS, 6800 PINEGAP DRIVE, WHITE MARSH, MARYLAND 21152
 DGN BY: _____
 DWN BY: _____
 CHKD BY: _____
 DATE: _____

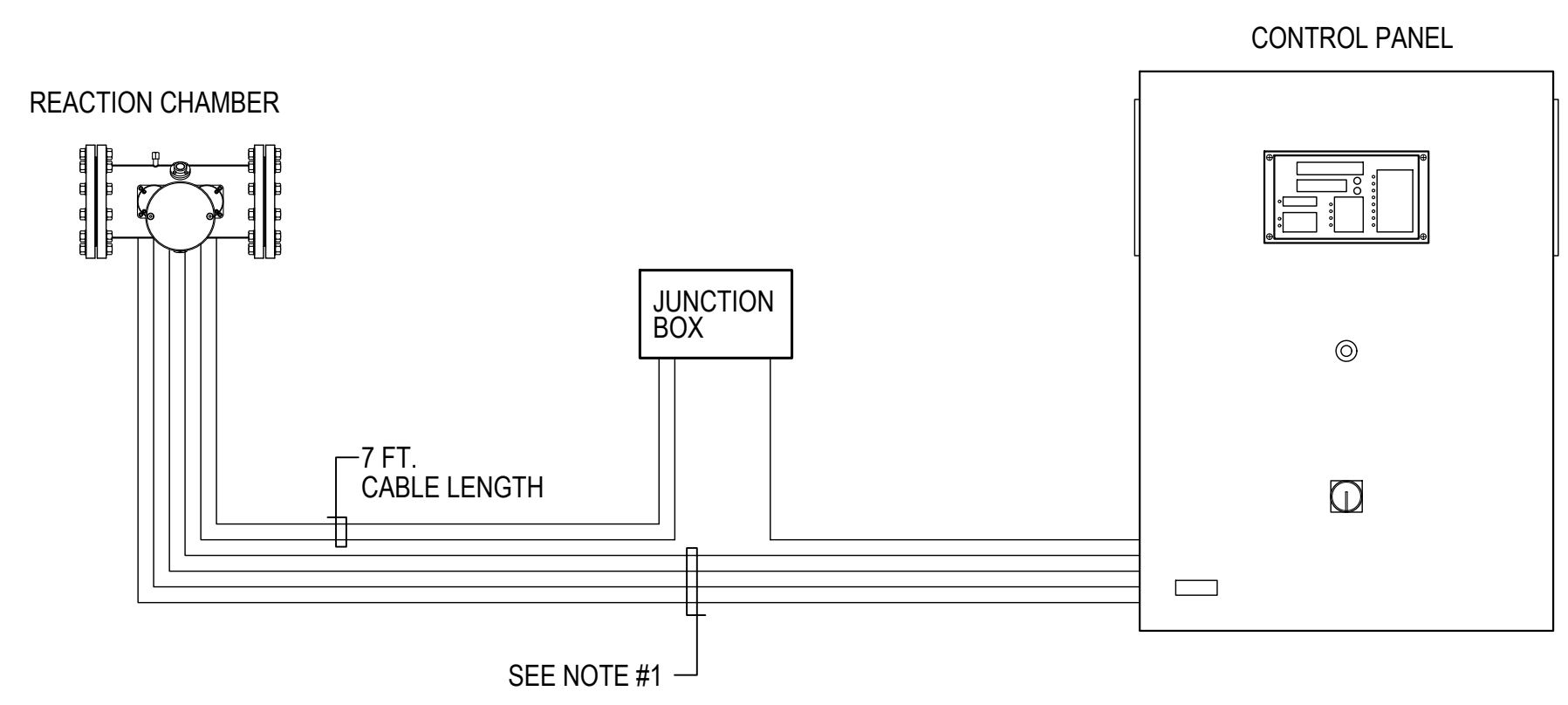
REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

SCALE: AS INDICATED
 DRAWN BY: _____
 CHECKED BY: _____
 SHEET NO.: _____
 PROJECT NO.: P570000
 PROPOSAL NO.: P570003
ARCHITECTURAL
 NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS
MR3
DETAILS

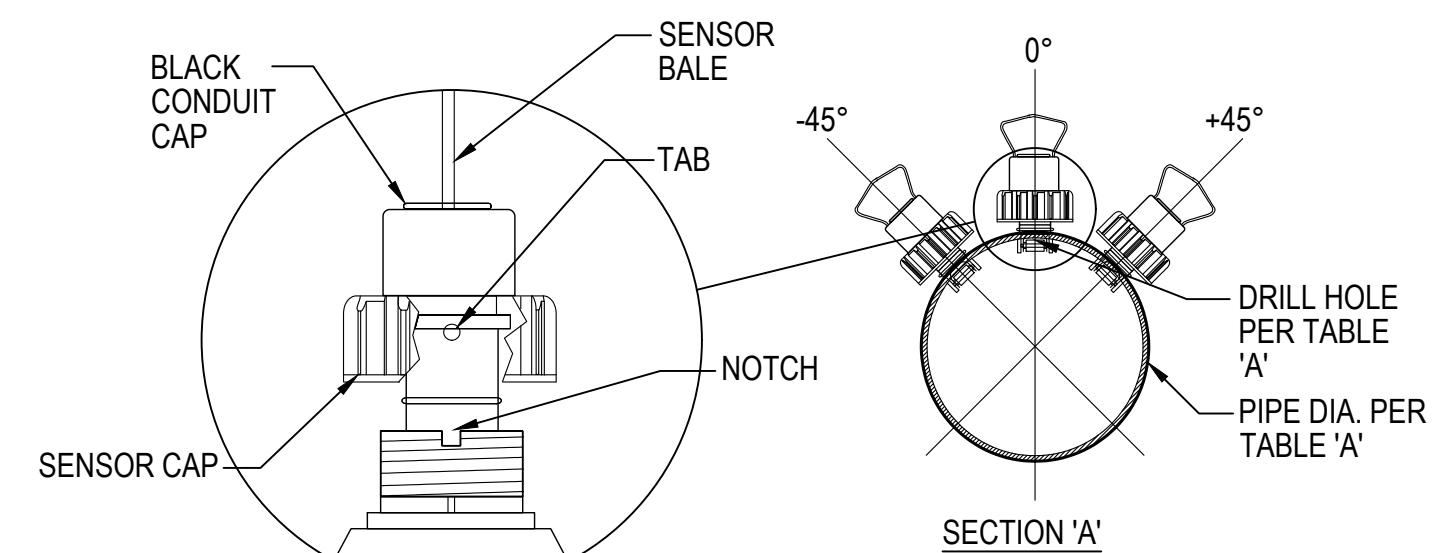


1 U.V. DISINFECTION UNIT INSTALLATION DETAIL NO SCALE



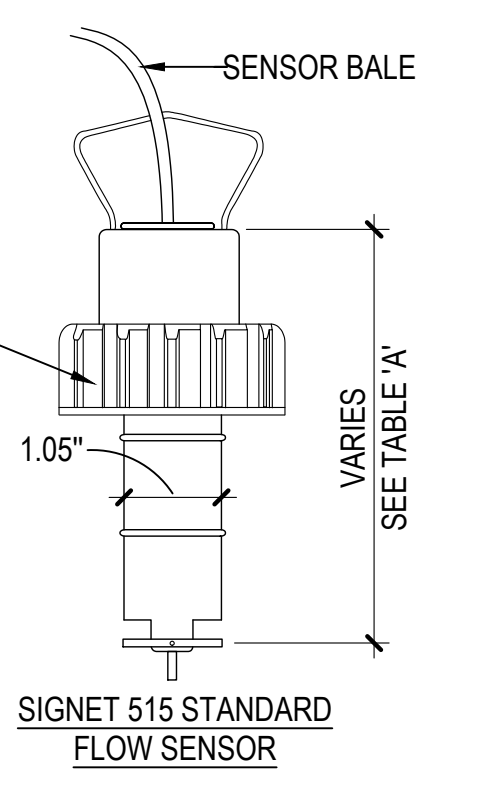
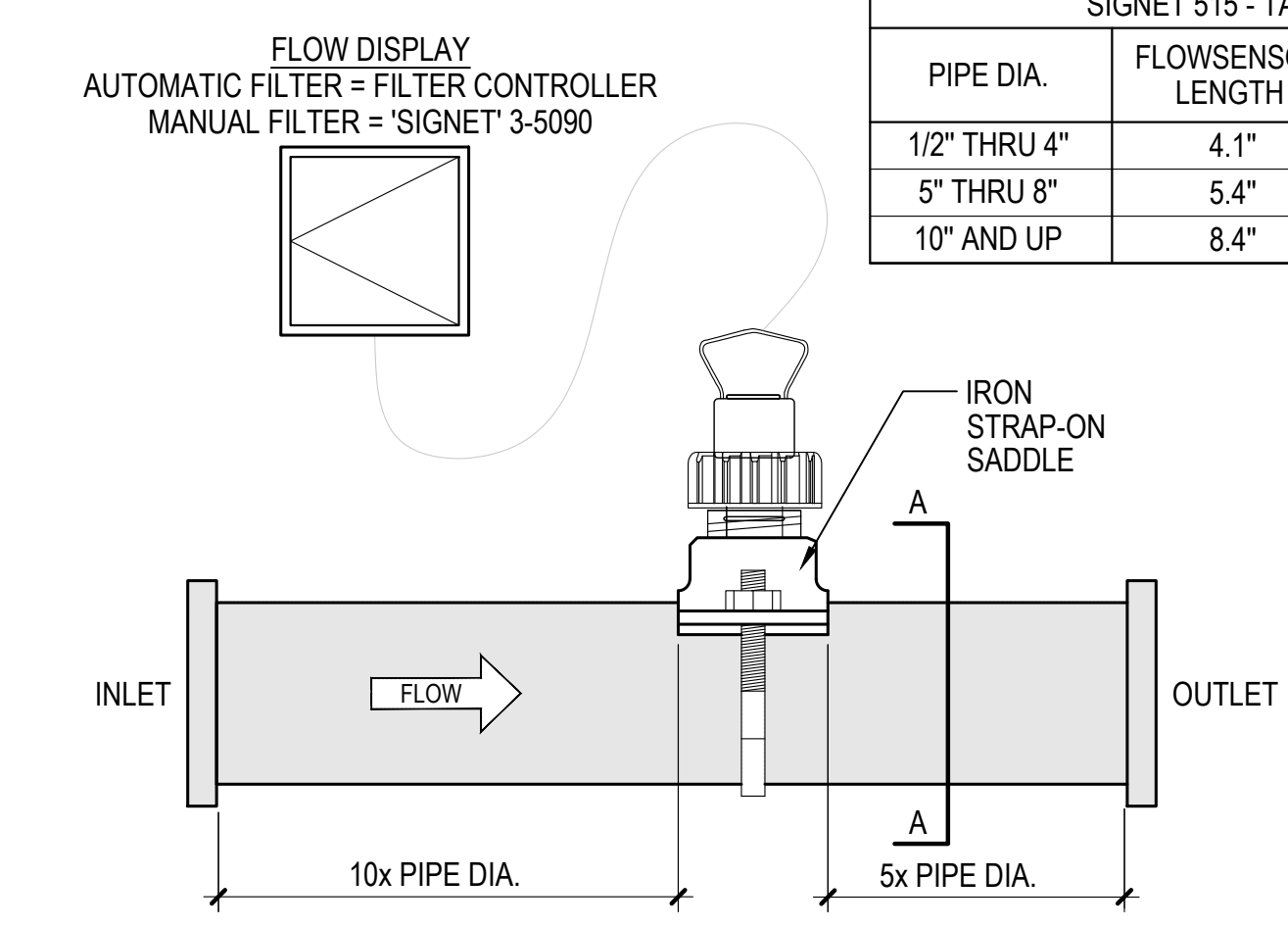
NOTES:
 1. STANDARD CABLE LENGTH FROM REACTION CHAMBER TO CONTROL PANEL IS 16 FEET. OPTIONAL CABLE LENGTHS AVAILABLE IN 33 FT, 66 FT, AND 164 FT.
 2. SEE SPECIFICATIONS FOR BARRIER M UNIT, CONTROL PANEL, AND JUNCTION BOX DIMENSIONS.

2 U.V. DISINFECTION UNIT TYPICAL INSTALLATION NO SCALE

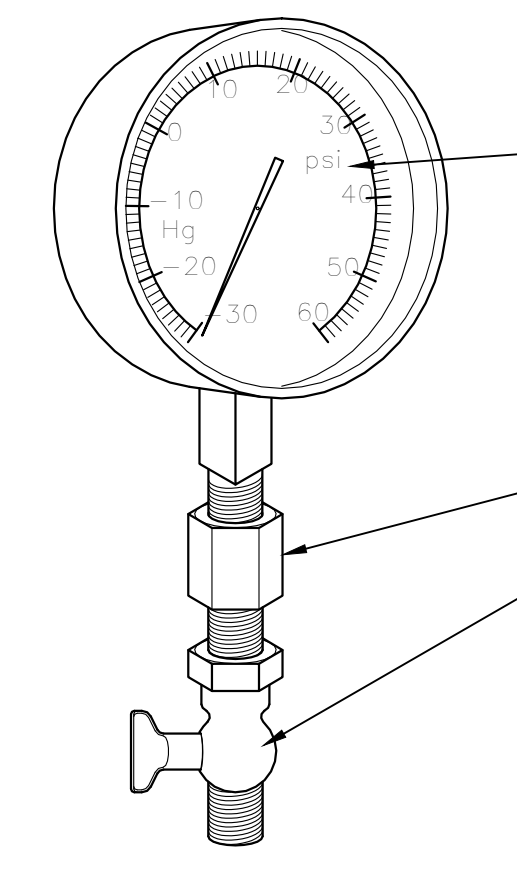


NOTES:
 1. HORIZONTAL PIPE RUNS: MOUNT SENSOR IN -45°, 0°, OR +45° POSITION PER MANUFACTURER'S RECOMMENDATIONS.
 2. VERTICAL PIPE RUNS: MOUNT SENSOR IN ANY ORIENTATION PER MANUFACTURER'S RECOMMENDATIONS.
 3. FLOW SENSOR LOCATION PER PLAN

SIGNET 515 - TABLE 'A'		
PIPE DIA.	FLWSENSOR LENGTH	DRILL HOLE
1/2" THRU 4"	4.1"	1 1/8"
5" THRU 8"	5.4"	2-1/4"
10" AND UP	8.4"	2-1/4"



3 SIGNET FLOWMETER NO SCALE



4-1/2" S/S CASED LIQUID FILLED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60psi AND VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2psi AND VACUUM OF 2" Hg. 1/4" NPT PER SPECIFICATIONS.

NOTES:
 1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING AND TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER AND PET COCK.
 2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.

4 PRESSURE/VACUUM GAUGE

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024
 ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS 68000 PINEAPPLES ROAD WHITE MARSH, MARYLAND 21152 (P) 410-541-9400
 DGN BY: _____ DATE: _____
 DWN BY: _____
 CHKD BY: _____



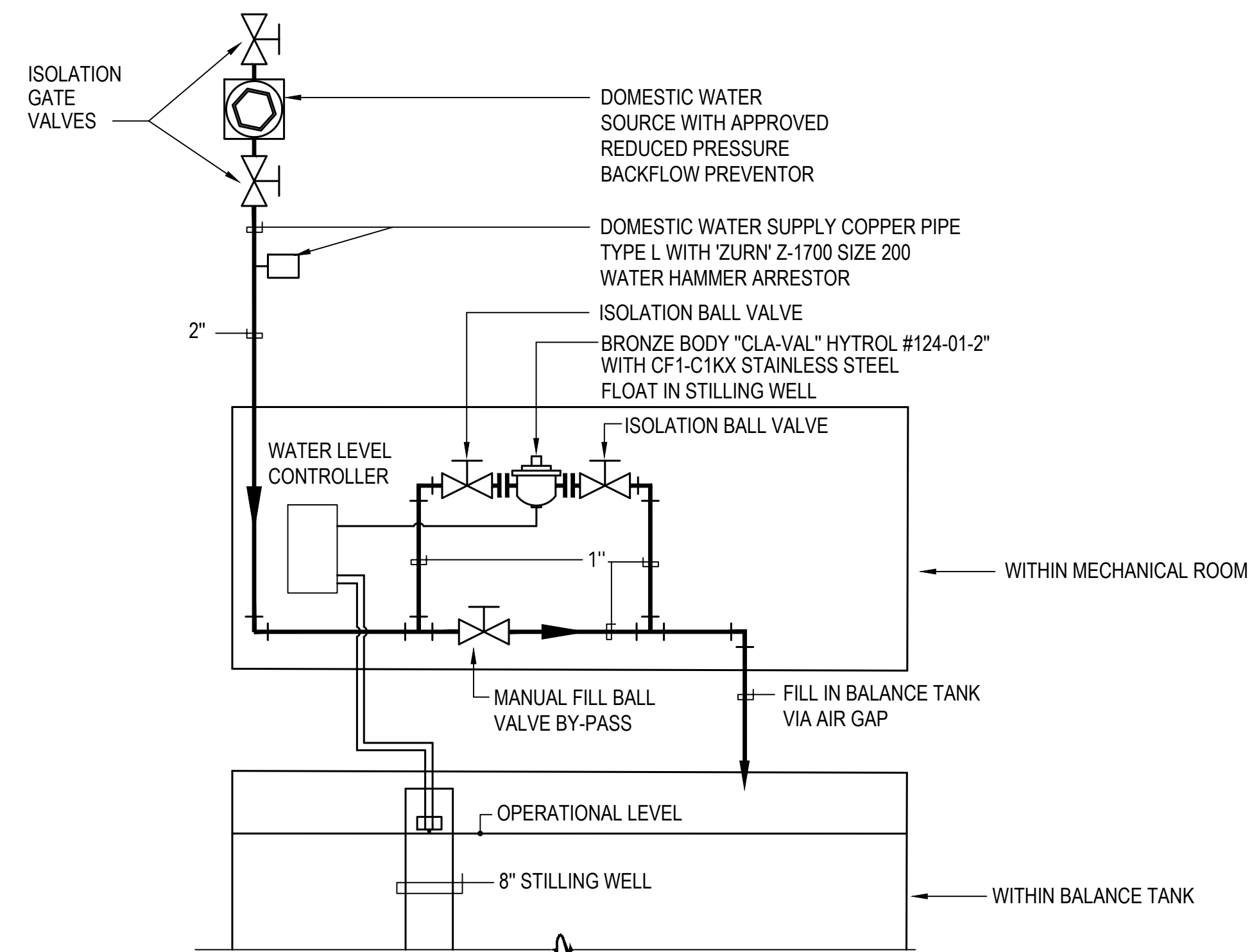
REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

APPROVED			
DATE	DATE	DATE	DATE
APPROVED	APPROVED	APPROVED	APPROVED
CHIEF ENGINEER	PROJECT MANAGER	CHIEF ENGINEER	PROJECT MANAGER
APPROVED	APPROVED	APPROVED	APPROVED
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT OF WAY SERVICES		

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	
SCALE: AS INDICATED	ARCHITECTURAL
DRAWN BY:	
CHECKED BY:	
SHEET NO.:	
PROJECT NO.: P570000	
PROPOSAL NO.: P570003	

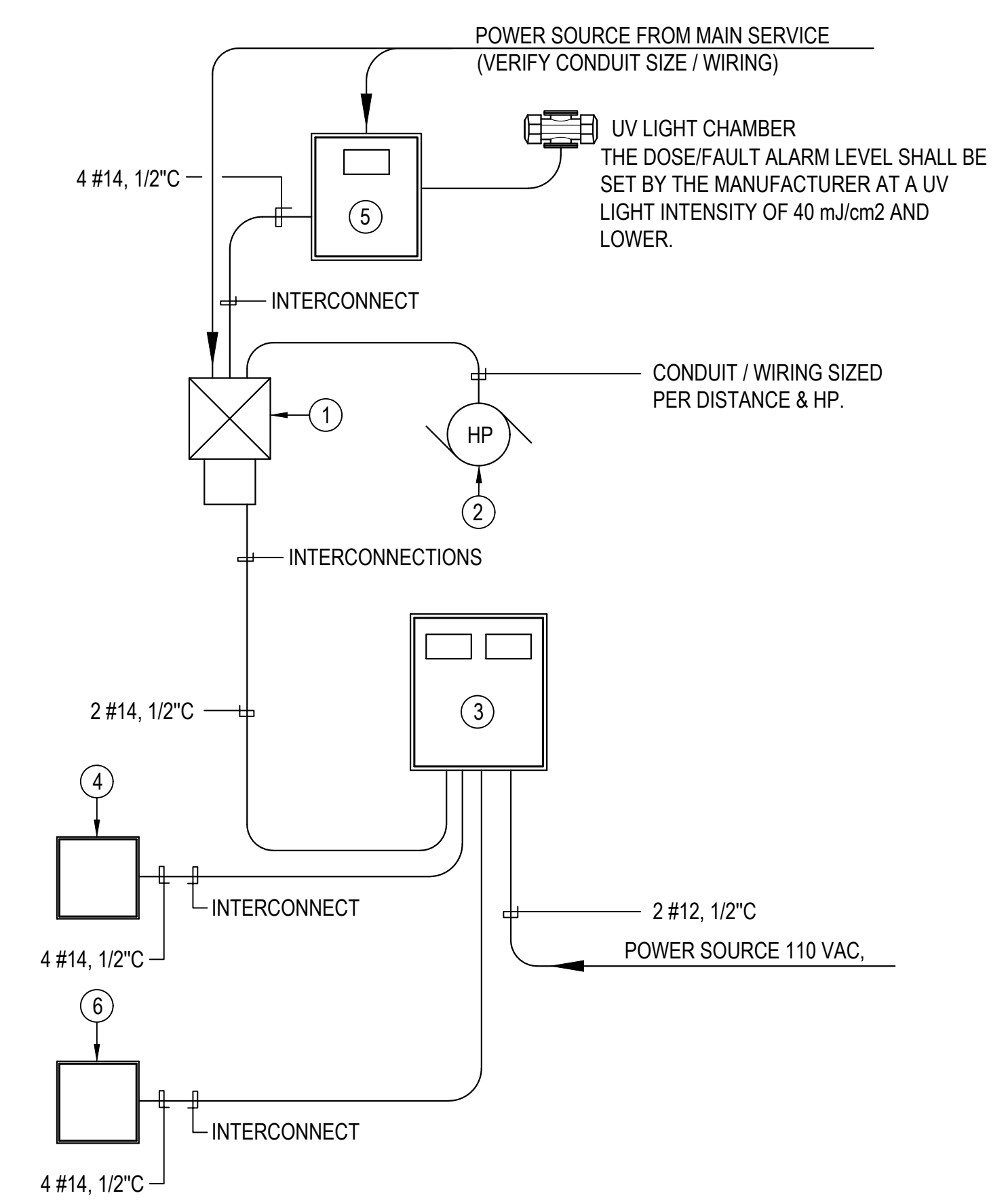
NORTH ARUNDEL SWIM CENTER - SPLASH PADS
 ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

MR4
 DETAILS

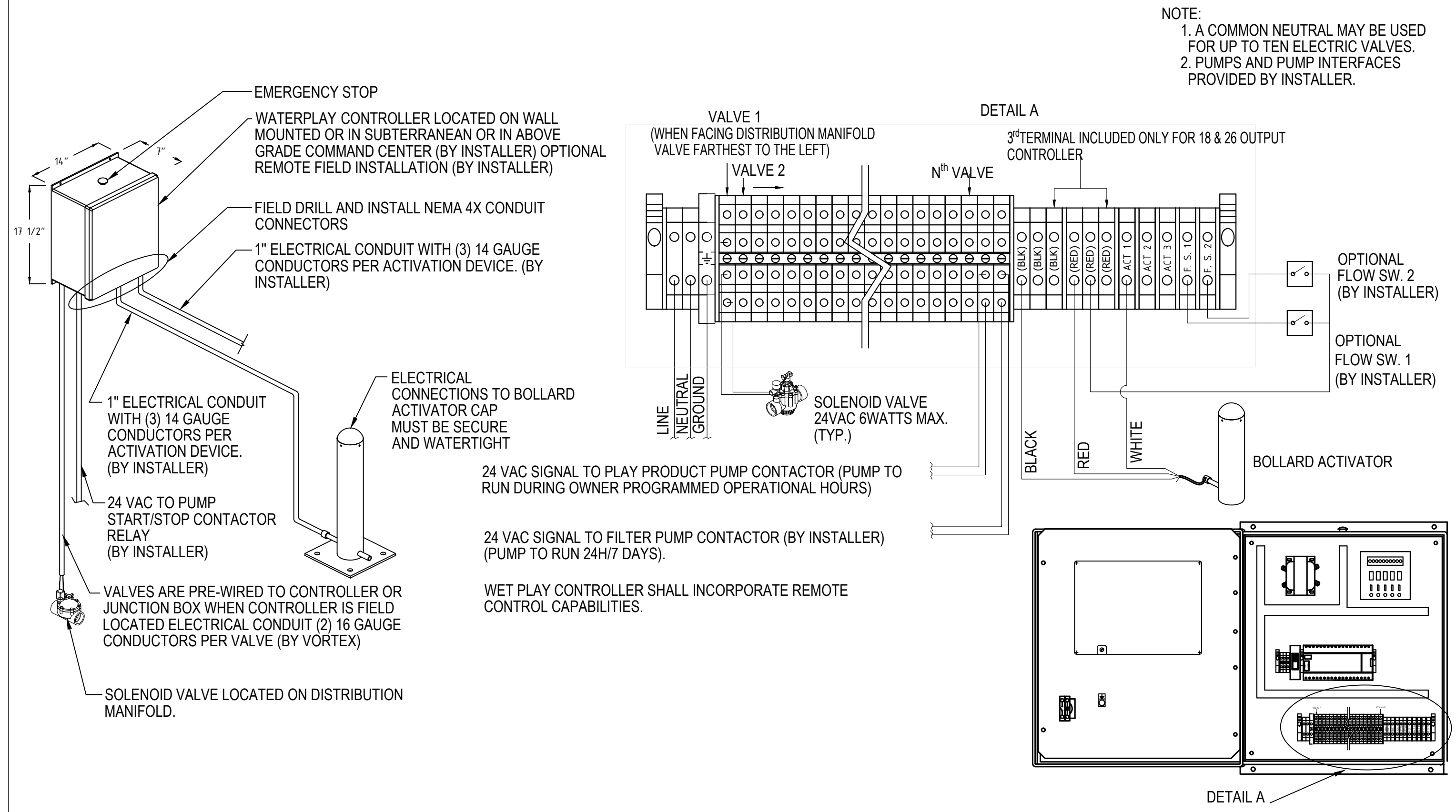


1 AUTOMATIC/MANUAL WATER MAKE-UP SCHEMATIC NO SCALE

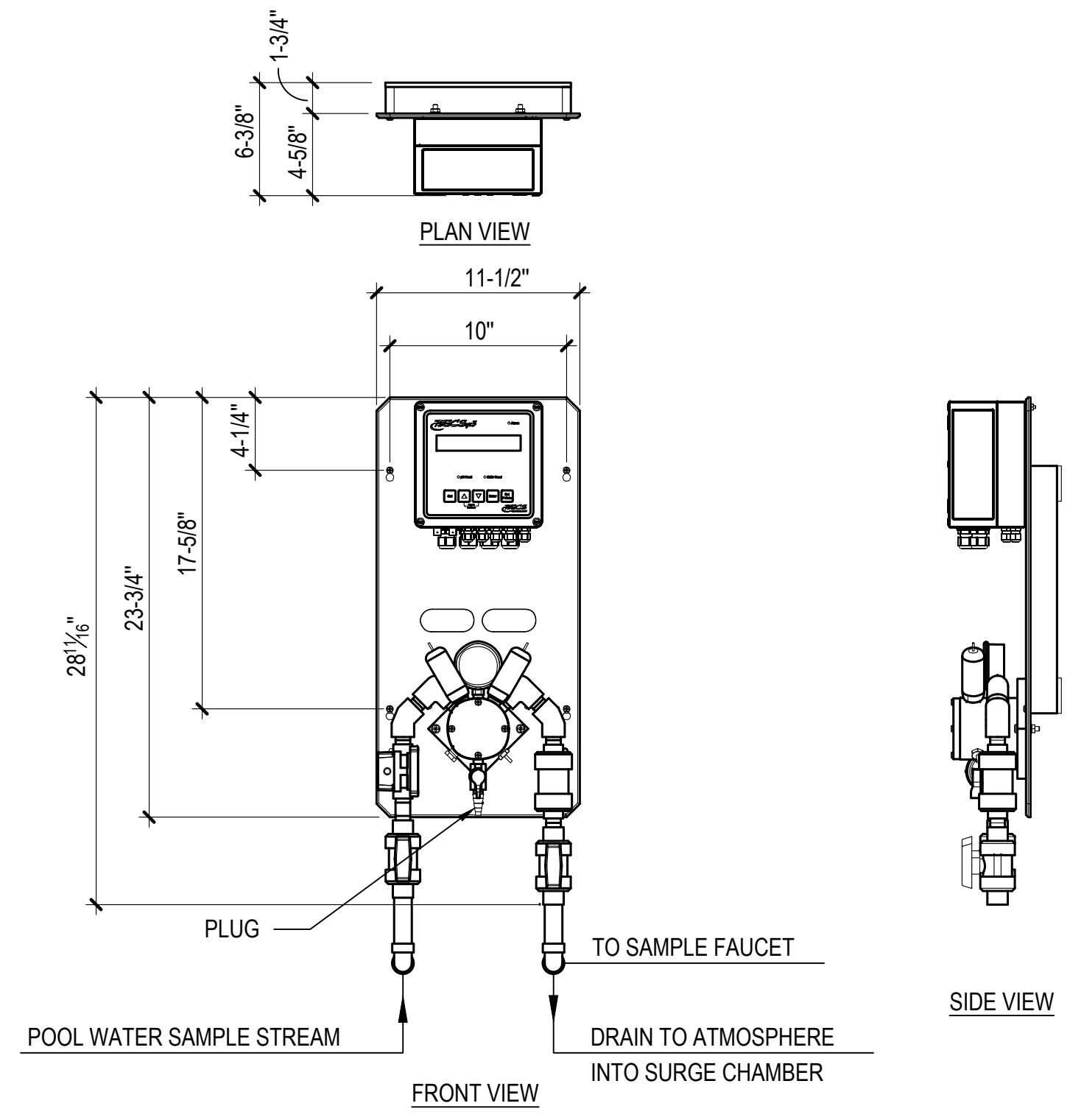
- LEGEND**
- ① COMBINATION MAG. STARTER
 - ② CIRCULATION PUMP
 - ③ WATER CHEMISTRY CONTROLLER
 - ④ CHLORINE TABLET FEED SYSTEM
 - ⑤ UV CONTROL PANEL
 - ⑥ ACID TABLET FEED SYSTEM
- NOTES:**
1. INSTALL 1 #12 GROUND CONDUCTOR IN ALL CONDUITS
 2. ALL CONDUITS SHALL BE RIGID OR INTERMEDIATE GALVANIZED METAL.
 3. REFER TO FILTER "OWNER'S MANUAL" FOR INSTALLATION/ OPERATING INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR A FULLY OPERATIONAL SYSTEM.
 4. ALL WORK SHALL BE IN ACCORDANCE WITH 2019 C.E.C. FURNISH ALL LABOR, MATERIALS AND COORDINATION OF WORK HERE ON SHOWN/IMPLIED.
 5. THE UV LIGHT DISINFECTION SYSTEM MUST BE EQUIPPED WITH AN AUTOMATIC SHUTDOWN SYSTEM THAT INACTIVATES THE WATER FEATURE PUMP IF THE UV DOSAGE RATE DROPS BELOW 40 mJ/cm².
 6. AUTOMATIC DISINFECTANT FEEDERS AND FILTRATION PUMP SHALL BE INTERLOCKED SO THAT WHEN FILTRATION PUMP SHUTS OFF THE WHOLE SYSTEM SHUTS DOWN.



2 ELECTRICAL INTERCONNECTION SINGLE LINE DIAGRAM NO SCALE



3 WATERPLAY CONTROLLER INSTALLATION DETAIL NO SCALE



4 BECSYS 3 WATER CHEMISTRY CONTROLLER 1-1/2"=1'-0"

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024

ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT

MANN'S WOODWARD STUDIOS 68000 PEARLDALE PARK ROAD WHITE MARSH, MARYLAND 21152 (P) 410-341-9400

DGN BY: _____ DATE: _____

DWN BY: _____

CHKD BY: _____



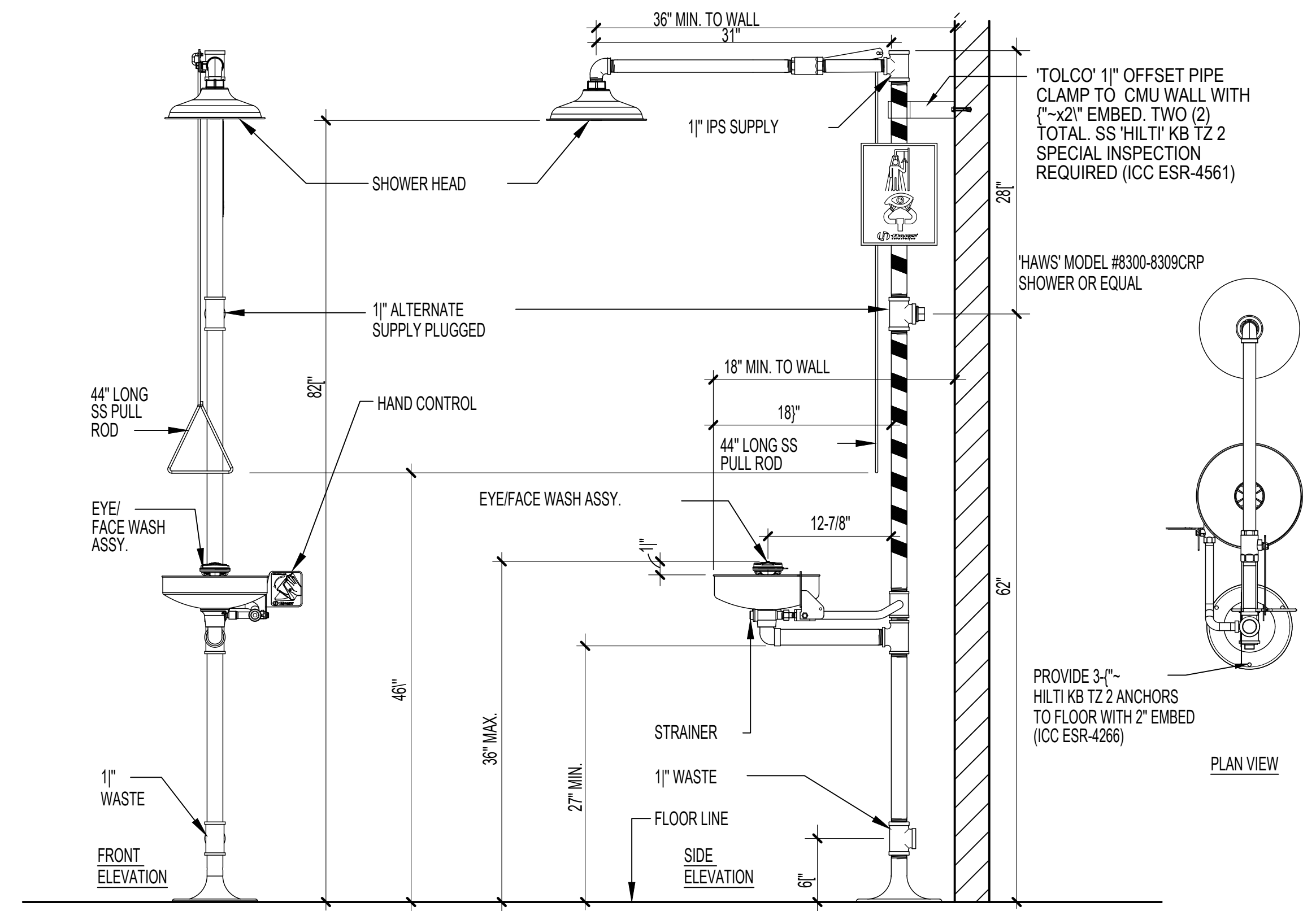
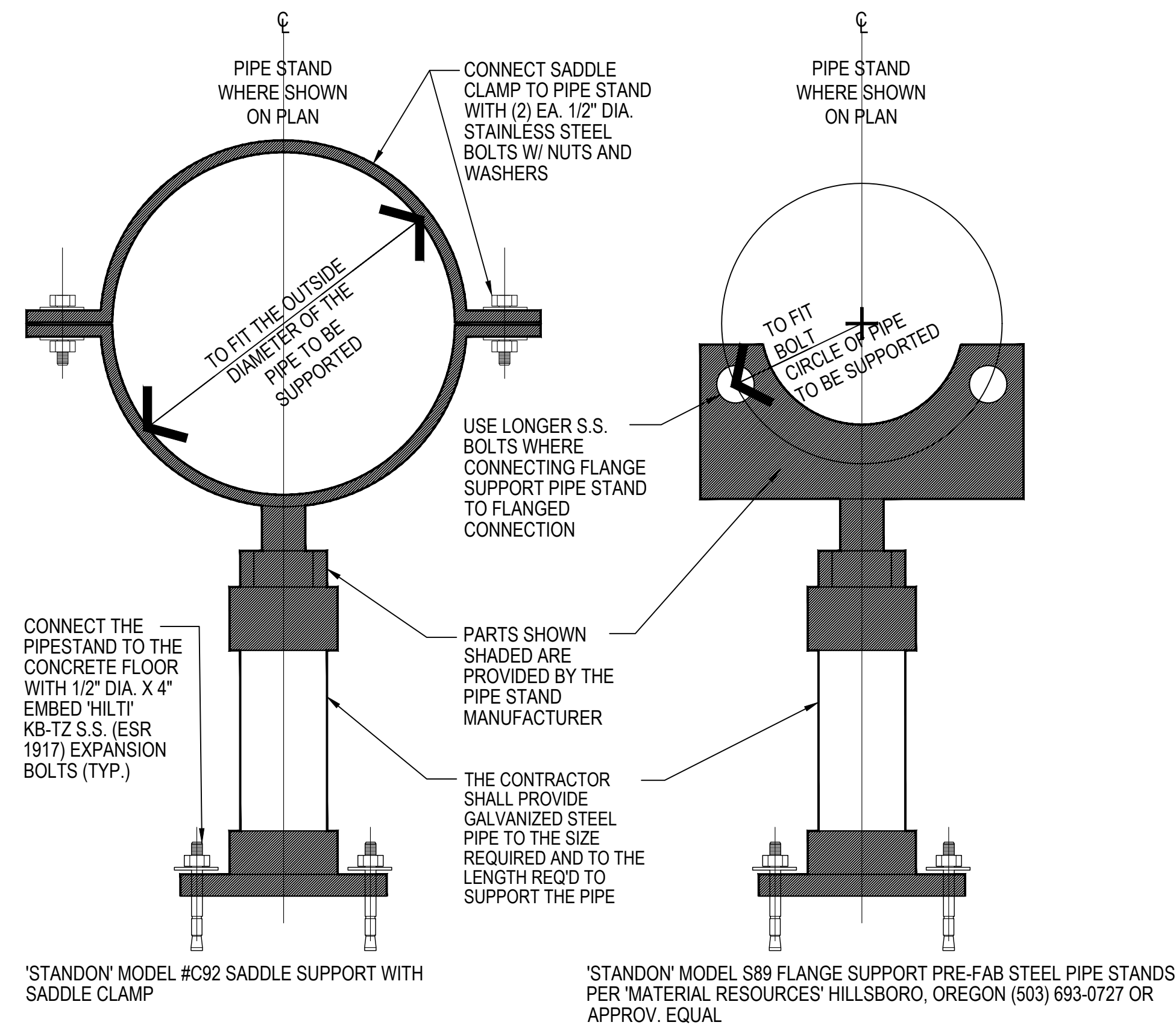
REVISION				
NO.	DESCRIPTION	BY	DATE	
00%	DESIGN DEVELOPMENT		09/06/2022	APPROVED
90%	CONSTRUCTION DOCUMENTS		12/15/2023	
100%	CONSTRUCTION DOCUMENTS		07/01/2024	CHIEF ENGINEER APPROVED
				ASSISTANT CHIEF ENGINEER

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
SCALE: AS INDICATED	DATE	APPROVED	DATE
ARCHITECTURAL			
DRAWN BY:		PROJECT MANAGER	
CHECKED BY:		APPROVED	
SHEET NO.:		DATE	
PROJECT NO.: P570000		CHIEF, RIGHT OF WAY SERVICES	
PROPOSAL NO.: P570003			

NORTH ARUNDEL SWIM CENTER - SPLASH PADS
ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

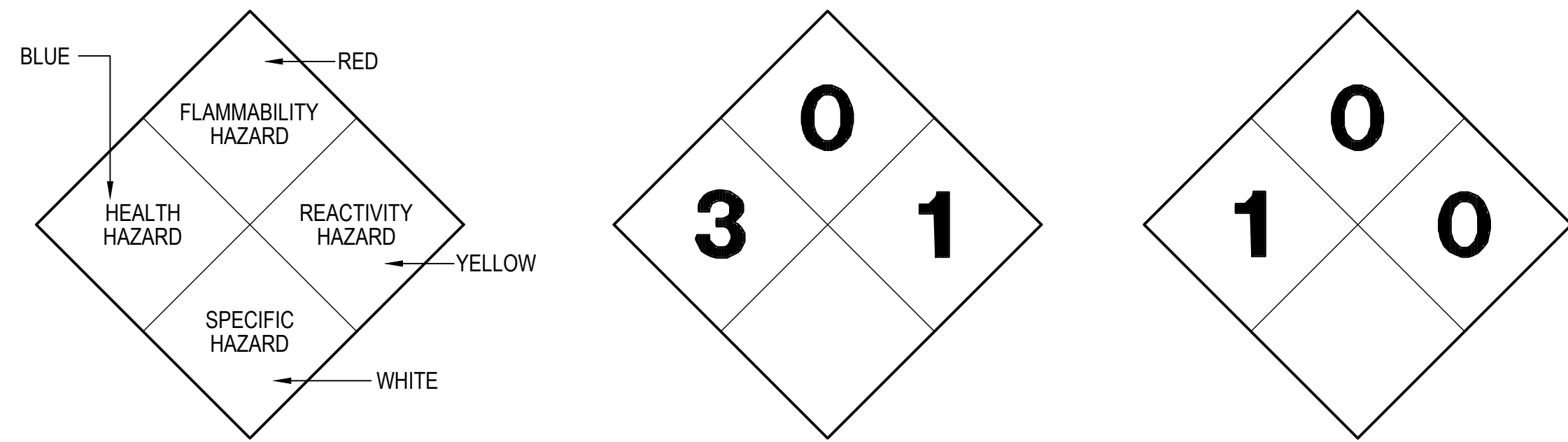
MR5
DETAILS

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.



1 PIPE FLOOR STAND SUPPORT NO SCALE

2 TYPICAL EYEWASH/SHOWER DETAIL NO SCALE



LEGEND

CALCIUM HYPOCHLORITE SODIUM BISULFATE

RATING EXPLANATION GUIDE				
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	REACTIVITY HAZARD	SPECIFIC HAZARD
4	CAN BE LETHAL	EXTREMELY FLAMMABLE. IGNITES AT BELOW 73° F.	MAY EXPLODE AT NORMAL TEMPERATURES AND PRESSURES	OXIDIZER: OX ACID: ACID
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	IGNITES AT ABOVE 73° F. BELOW 100° F.	MAY EXPLODE AT HIGH TEMPERATURES OR SHOCK	CORROSIVE: COR
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	IGNITES AT ABOVE 100° F. BELOW 200° F.	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES	ALKALI: ALK USE NO WATER: -- RADIATION HAZARDS: ☸ POLYMERIZES: P
1	CAN CAUSE SIGNIFICANT IRRITATION	IGNITES AT ABOVE 200° F.	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE	
0	NO HAZARD	WILL NOT BURN	STABLE	

NOTES:

- CONFIRM SIGNAGE WITH LOCAL FIRE MARSHALL AND/OR BUILDING CODES PRIOR TO INSTALLATION. SIGNS SHALL CONFORM TO NFPA 704.
- SIGNS SHALL BE SIZES AND COLORS PER CODE MOUNTED AT +60" A.F.F. ON DOORS AT CHEMICAL ROOMS.

CHEMICAL CLASSIFICATION TABLE										
COMMON NAME	CHEMICAL NAME	% COMP.	CAS #	FORM	QUANT. STORED (NOT USED)	QUANT. IN USE (USE-CLOSED)	MAXIMUM ALLOWABLE QUANTITY	LOCATION (STORAGE & USE)	HAZ. CLASSES	JUSTIFICATION
CALCIUM HYPOCHLORITE	CALCIUM HYPOCHLORITE	65%	7778-54-3	TABLET	45 lbs.	60 lbs.	1,350 lbs.	MECH. ROOM	OXIDIZER	MSDS
SODIUM BISULFATE	SODIUM BISULFATE	93%	7681-38-1	TABLET	45 lbs.	45 lbs.	NO LIMIT	CHEM. ROOM	IRRITANT	MSDS

QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN IBC TABLES 307.1 (1) AND 307.1 (2).

3 HAZARDOUS INFORMATION SIGNAGE

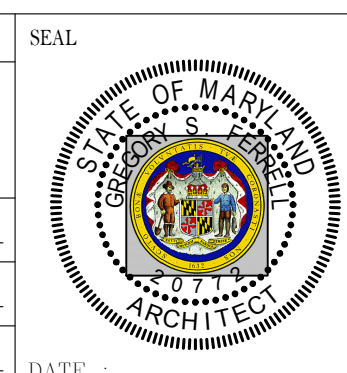
PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 15505 EXPIRATION DATE: 08-18-2024

ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT
MANN'S WOODWARD STUDIOS
68000 PEARLDALEPIKE ROAD
WHITE MARSH, MARYLAND 21152
(410) 541-1400

DGN BY: _____
DWN BY: _____
CHKD BY: _____



REVISION			
NO.	DESCRIPTION	BY	DATE
00%	DESIGN DEVELOPMENT		09/06/2022
90%	CONSTRUCTION DOCUMENTS		12/15/2023
100%	CONSTRUCTION DOCUMENTS		07/01/2024

NO SCALE	
DATE	APPROVED
	APPROVED
	CHIEF ENGINEER
	APPROVED
	ASSISTANT CHIEF ENGINEER

NO SCALE	
DATE	APPROVED
	APPROVED
	PROJECT MANAGER
	APPROVED
	CHIEF, RIGHT OF WAY SERVICES

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

ARCHITECTURAL

NORTH ARUNDEL SWIM CENTER - SPLASH PADS
ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS

MR6
DETAILS

GENERAL NOTES

DIMENSIONS

THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS INDICATED ON THESE DRAWINGS AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.

COORDINATION

THE CONTRACTOR SHALL VERIFY/COORDINATE FLOOR SLAB DEPRESSIONS, ROOF OPENINGS, FLOOR OPENINGS, WALL OPENINGS, DUCT AND PIPE OPENINGS, EQUIPMENT PADS, ETC. WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.

STABILITY

- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETELY CONSTRUCTED.
- STABILITY DURING CONSTRUCTION, AND CONSTRUCTION MEANS AND METHODS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR MUST DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE NEED FOR TEMPORARY SHEETING, SHORING AND/OR BRACING, AND IS RESPONSIBLE FOR THEIR DESIGN AND INSTALLATION.
- MATERIALS AND METHODS USED FOR TEMPORARY SHEETING, SHORING AND/OR BRACING ARE NOT INCLUDED ON THE CONTRACT DRAWINGS OR IN THE CONTRACT SPECIFICATIONS.
- MINCIN PATEL MILANO, INC. IS NOT AN INSPECTION AGENCY AND DOES NOT SUPERVISE CONSTRUCTION.
- MINCIN PATEL MILANO, INC. DOES NOT HAVE ANY EXPERTISE IN CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY.
- PROCESSING AND APPROVING THE CONTRACTOR'S SUBMITTALS WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY, OR PARTICIPATING IN MEETINGS WHERE SUCH ISSUES ARE DISCUSSED, SHALL NOT BE CONSTRUED AS AN ASSUMPTION OF ANY RESPONSIBILITY FOR THESE ITEMS BY MINCIN PATEL MILANO, INC.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE APPLICATION AND ADHERENCE TO ALL APPLICABLE SAFETY PROCEDURES, CODES AND REGULATIONS THROUGHOUT CONSTRUCTION.

EARTHWORK

REFER TO THE GEOTECHNICAL REPORT PREPARED FOR THIS SITE BY HILLIS-CARNES ENGINEERING ASSOCIATES, DATED OCTOBER 19, 2023 FOR ALL EARTHWORK RECOMMENDATIONS AND REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO:

- STRIPPING AND GRUBBING
- PROOFROLLING
- DEWATERING
- STRUCTURAL FILL PLACEMENT AND COMPACTION
- ACCEPTABLE MATERIALS FOR USE AS STRUCTURAL FILL

FOUNDATIONS

DESIGN CRITERIA FOR THIS PROJECT PER THE GEOTECHNICAL REPORT:

- FOOTING DESIGN BEARING CAPACITY: 2,000 PSF
- FOOTING FROST PROTECTION BELOW FINISHED GRADE: 2'-6" MINIMUM

CAST IN PLACE CONCRETE AND REINFORCING

- ALL CONCRETE SHALL CONFORM TO ACI 301, ACI 318, ACI 315.
- CONCRETE SHALL HAVE THE FOLLOWING 28 DAY COMPRESSIVE STRENGTH (f'_c):
SLAB ON GRADE, FOUNDATION WALLS, COLUMN PIERS: 4,000 PSI
FOOTINGS: 3,000 PSI
EXTERIOR FLAT WORK: 4,500 PSI
- REINFORCING: ASTM A615, GRADE 60.
- WELDED WIRE FABRIC: ASTM A 185.
- SPLICE LAPS FOR ALL REINFORCING SHALL BE CLASS "B" SPLICE.
- PROVIDE ACCESSORIES AND BAR SUPPORTS FOR ALL REINFORCING IN ACCORDANCE WITH ACI 315 (LATEST EDITION).
- ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE 6% AIR ENTRAINMENT.
- MAXIMUM SLUMP FOR CONCRETE AT POINT OF PLACEMENT TO BE 4".
- THE CONTRACTOR SHALL MAINTAIN A SET OF COMPRESSIVE TEST CYLINDERS FOR EACH 20 CU.YD. PLACED, AND/OR ONE SET FOR EACH DAY'S POUR, FOR EACH CLASS OF CONCRETE. COMPRESSIVE STRENGTH TESTING OF THE CYLINDERS, AS WELL AS SLUMP TESTS SHALL BE PERFORMED BY A TESTING LABORATORY APPROVED BY MINCIN PATEL MILANO, INC.
- CONTRACTOR SHALL COMPLY WITH THE APPLICABLE RECOMMENDATIONS AND REQUIREMENTS OF THE ACI REGARDING COLD AND HOT WEATHER PLACEMENT OF CONCRETE, AND CONSTRUCTION OF FORMWORK.

MASONRY

- MASONRY WORK SHALL COMPLY WITH ACI 530.1/ASCE 6 "SPECIFICATIONS FOR MASONRY STRUCTURES".
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90.
- CONCRETE MASONRY UNITS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI AND A MINIMUM PRISM STRENGTH OF F_m = 1,500 PSI.
- MORTAR SHALL CONFORM TO ASTM C 210, TYPE S.
- ALL MASONRY WALLS SHALL BE CONTINUOUSLY REINFORCED WITH TRUSS TYPE DUR-O-WAL SPACED AT 16" ON CENTER MAXIMUM VERTICALLY. ALL SPLICES IN REINFORCEMENT SHALL BE LAPPED 6" MINIMUM AND ALL INTERSECTIONS OF WALLS AND CORNERS SHALL BE PROVIDED WITH PREFABRICATED "T" AND CORNER PIECES.
- ALL MORTAR JOINTS IN MASONRY WALLS (HORIZONTAL AND VERTICAL) SHALL BE FILLED 100% WITH MORTAR.
- REINFORCED MASONRY WALLS SHALL HAVE CELLS FILLED SOLID WITH PEA GRAVEL CONCRETE IN FOUR COURSE MAXIMUM LIFTS.
- PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AS DIRECTED ON THE ARCHITECTURAL DRAWINGS.
- SPLICE LAPS FOR MASONRY REINFORCEMENT SHALL BE 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

- STEEL FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECIFICATIONS AND AISC D11.
- ALL STRUCTURAL STEEL IN SHAPES SHALL BE ASTM A992, GRADE 50.
- PIPE SECTIONS: ASTM A 53, GRADE B.
- TUBE SECTIONS: ASTM A 500, GRADE B.
- ALL OTHER STEEL SHALL BE ASTM A 36.
- WELDING ELECTRODES: E70XX
- HIGH STRENGTH BOLTS: ASTM A 325
- ANCHOR RODS: ASTM F1554, GRADE 55.
- SHOP COAT ALL STRUCTURAL STEEL WITH APPROVED PRIMER, UNLESS OTHERWISE NOTED.

METAL DECK

- FABRICATION AND ERECTION OF STEEL DECK SHALL CONFORM TO STEEL DECK INSTITUTE SPECIFICATIONS.
- STEEL DECK: ASTM A 653 (50), GRADE 33.
- GALVANIZING: ASTM A 924, G 60 GALVANIZED COATING.
- PLACE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- FASTEN DECK TO SUPPORTING STRUCTURE AS INDICATED IN PLAN NOTES.

SHOP DRAWINGS

- ORIGINALLY PREPARED SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER'S REVIEW FOR THE FOLLOWING ITEMS:
CONCRETE AND MASONRY REINFORCING STEEL
STRUCTURAL STEEL, AND METAL DECK
- IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE FIRM, MINCIN PATEL MILANO, INC. WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S INTERPRETATION OF THE INTENT OF THE STRUCTURAL DRAWINGS.
- AT THE TIME OF THE SHOP DRAWING SUBMISSION, THE GENERAL CONTRACTOR SHALL STATE IN WRITING ANY DEVIATION OR OMISSIONS FROM THE CONTACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE A/E AND SHALL MAKE ALL CORRECTIONS AS HE DEEMS NECESSARY.

INSPECTION

- AN INDEPENDENT INSPECTION AGENCY, APPROVED BY THE ARCHITECT/ENGINEER, SHALL INSPECT/MONITOR/TEST THE FOLLOWING ITEMS:
EARTHWORK OPERATIONS & VERIFICATION OF SOIL BEARING CAPACITY
CAST IN PLACE CONCRETE AND REINFORCING STEEL
STRUCTURAL STEEL, AND METAL DECK
- COPIES OF THE INSPECTOR'S WEEKLY LOGS AND FINAL REPORTS CERTIFYING THAT THE ITEMS INSPECTED HAVE BEEN INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER.

LIVE LOADS

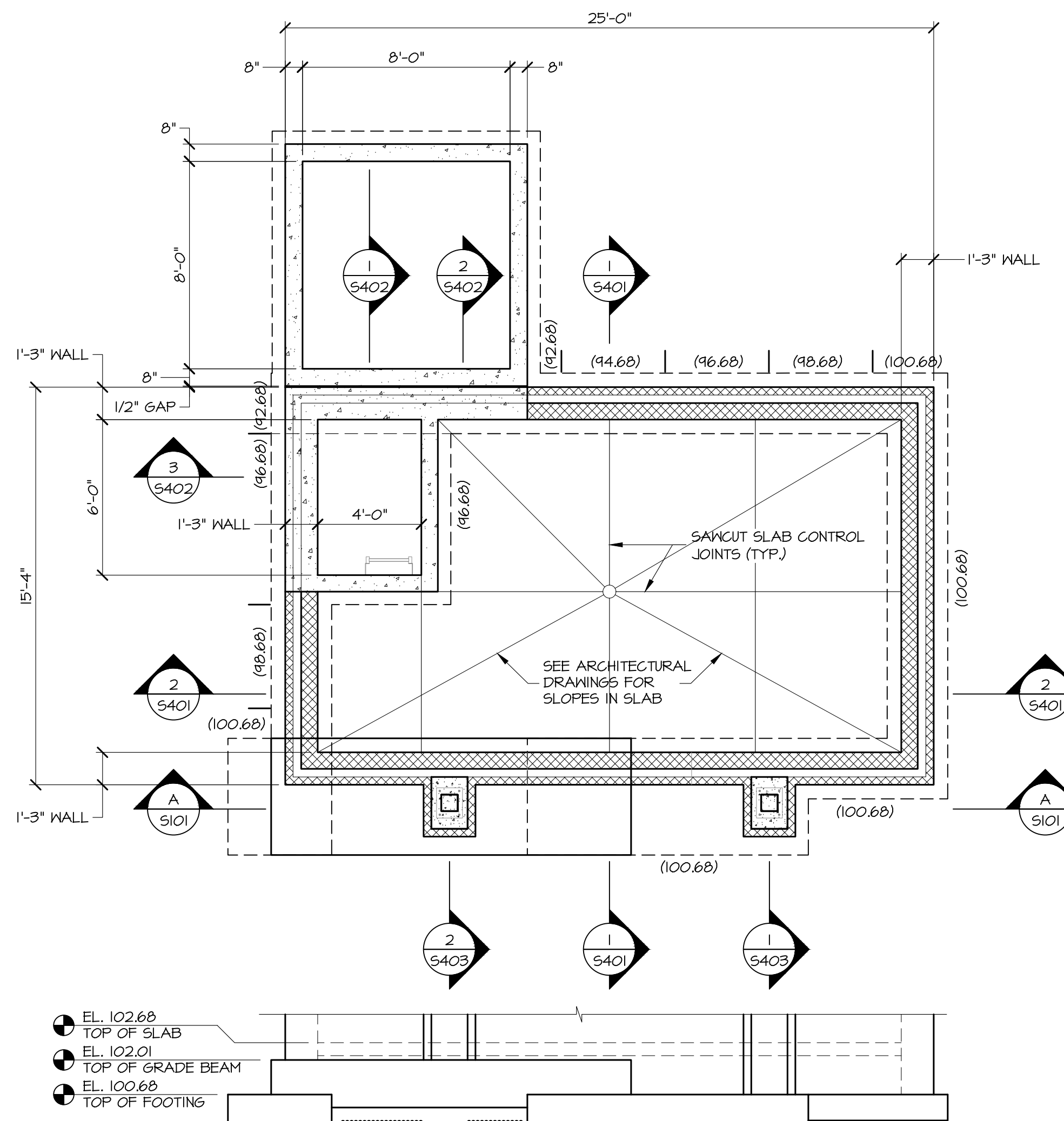
THIS BUILDING HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS (BASED ON IBC 2018, & ASCE 7-16):

- ROOF: 30 PSF, MINIMUM
- SNOW LOAD: GROUND SNOW P_s = 30 PSF
SNOW IMPORTANCE FACTOR = 1.0
EXPOSURE FACTOR = 1.0
THERMAL FACTOR = 1.00
FLAT ROOF SNOW LOAD = 21.0 PSF
- FLOOR LOAD = 125 PSF
- WIND LOAD: BASIC WIND SPEED (3 SECOND GUST) = 115 MPH
EXPOSURE = B
RISK CATEGORY II BUILDING
INTERNAL PRESSURE COEFFICIENT = 0.18 AND -0.18

- SEISMIC IMPORTANCE FACTOR = 1.0
- RISK CATEGORY = II
- MAPPED STRUCTURAL RESPONSE ACCELERATIONS: S_{DS} = .134
S₁ = .043

- SITE CLASS = D
- SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = .143
S₁ = .068

- SEISMIC DESIGN CATEGORY = B
- BASIC SEISMIC FORCE RESISTING SYSTEMS:
ORDINARY REINFORCED MASONRY SHEAR WALLS: R = 1.5
- ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE



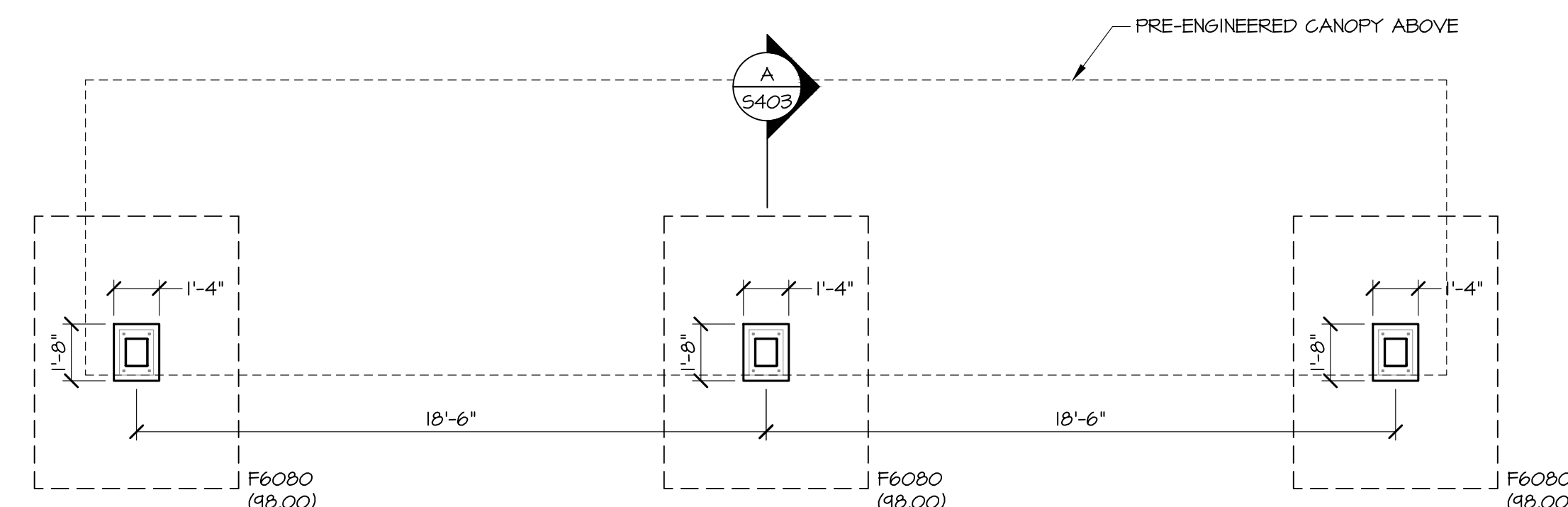
ELEVATION A-A 1/4"=1'-0"
SEE SECTION 4/5402 FOR ENLARGED VIEW

PUMP HOUSE FOUNDATION PLAN 1/4"=1'-0"

- FLOOR CONSTRUCTION TO BE A 5" THICK CONCRETE SLAB ON GRADE REINFORCED W/ 6x6 - #14 x #14 W/F. PLACE SLAB OVER A 4" WASHED GRAVEL SUB-BASE.
- TOP OF SLAB ON GRADE REFERENCE ELEVATION = EL102.68.
- TOP OF FOOTING ELEVATIONS INDICATED (00.00) IN PLAN.
- COORDINATE RAISED SLABS AND/OR EQUIPMENT HOUSEKEEPING PADS WITH SPLASH PAD CONSULTANT.
- STEP FOOTING IN ACCORDANCE WITH DETAIL B/5403 AT ALL UTILITIES PASSING THRU FOUNDATION WALL. COORDINATE NUMBER, INVERT ELEVATIONS, AND LOCATIONS WITH PLUMBING AND SPLASH PAD CONSULTANT'S DRAWINGS.

PUMP HOUSE ROOF FRAMING PLAN 1/4"=1'-0"

- ROOF TO BE 1/2"x22 G60, G90 GALVANIZED, TYPE 'B' METAL DECK, TYPE 15 B 5 MANUFACTURED BY VULCRAFT, OR APPROVED EQUIVALENT. FASTEN DECK TO ALL SUPPORTS W/ 5/8"φ RUDDLE WELDS AT 36/4 PATTERN. FASTEN SIDE LAPS W/ #10 TEK SCREWS AT 3'-0" o.c. MAX.
- TOP OF ROOF STEEL ELEVATION VARIES, SEE SECTIONS.



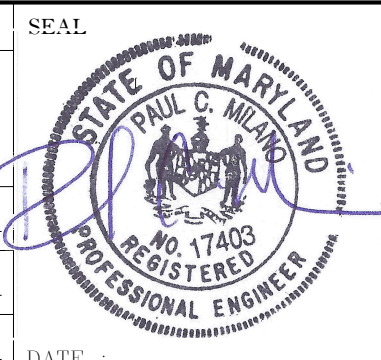
CANOPY FOUNDATION PLAN 1/4"=1'-0"

- TOP OF FOOTING ELEVATIONS INDICATED (00.00) IN PLAN.

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.

ENGINEER:
PAUL MILANO, PE
PRINCIPAL ENGINEER
MINCIN PATEL MILANO, INC.
801 HARBOR ROAD
BALTIMORE, MARYLAND 21211
P: 410-543-7500

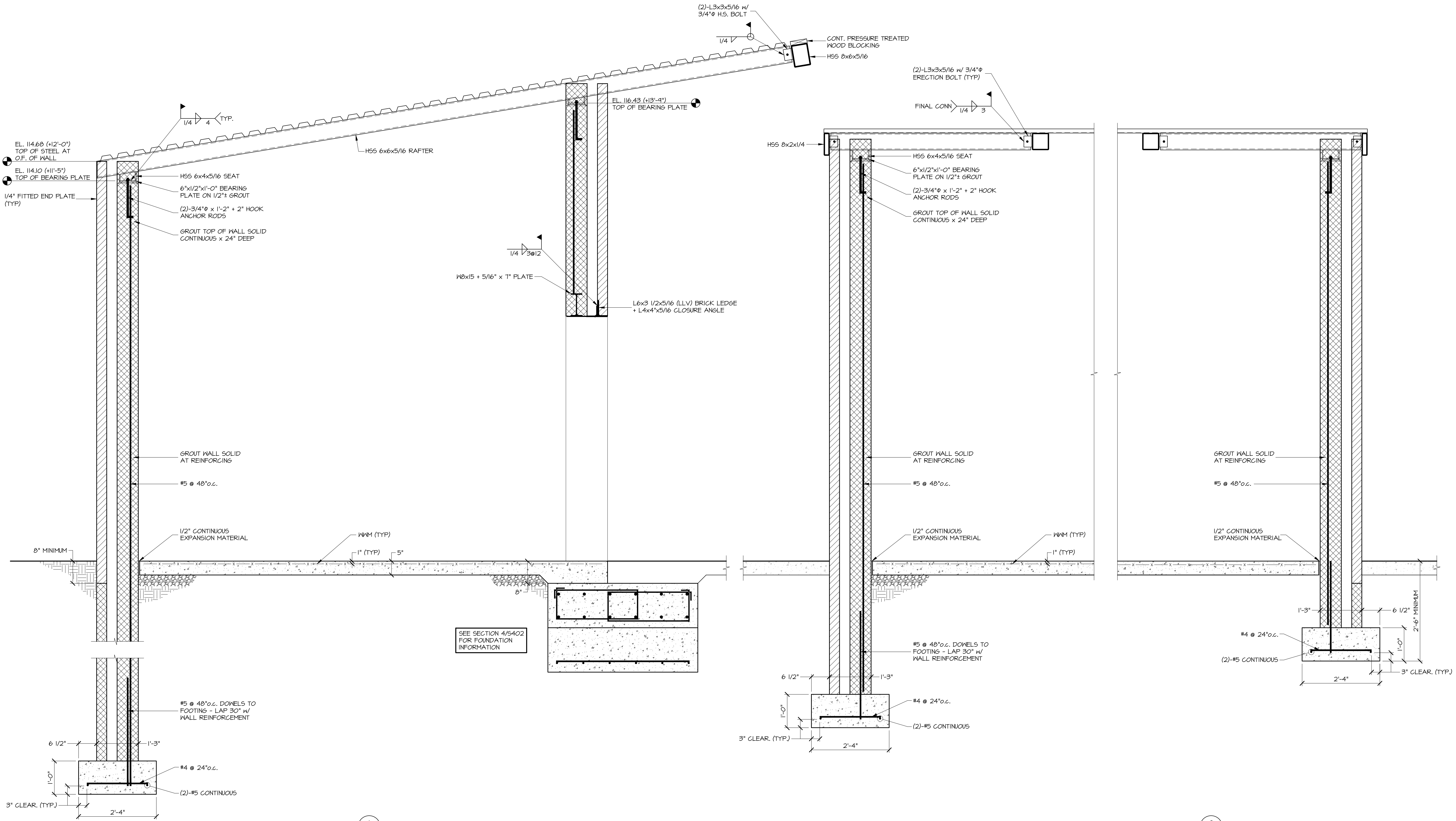


NO.	DESCRIPTION	BY	DATE
DD Progress Submission			08/21/2023
90% CD Submission			12/15/2023
Building Permit			02/09/2024
100% Construction Documents			07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
PROJECT MANAGER		CHEF ENGINEER	
APPROVED		APPROVED	
CHEF, RIGHT OF WAY SERVICES			

SCALE	
DRAWN BY:	
CHECKED BY:	
SHEET NO.:	
PROJECT NO. F6080	
PROPOSAL NO. F6010	

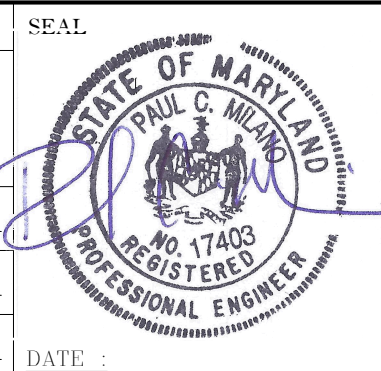
STRUCTURAL	
NAAC SPLASH PAD	
S101	
STRUCTURAL PLANS	



SECTION 1 3/4"=1'-0"

SECTION 2 3/4"=1'-0"

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. 17403 EXPIRATION DATE: 09-28-2025



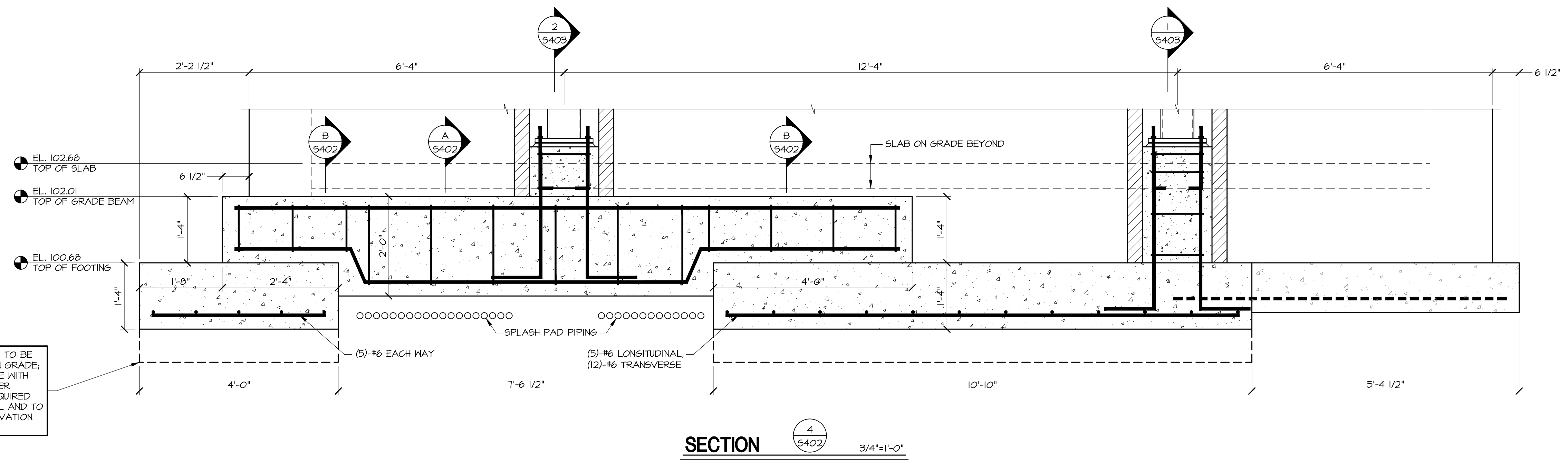
REVISION			
NO.	DESCRIPTION	BY	DATE
DD	Progress Submission		08/21/2023
90%	CD Submission		12/15/2023
	Building Permit		02/09/2024
	100% Construction Documents		07/01/2025

APPROVED			
DATE	DATE	DATE	DATE

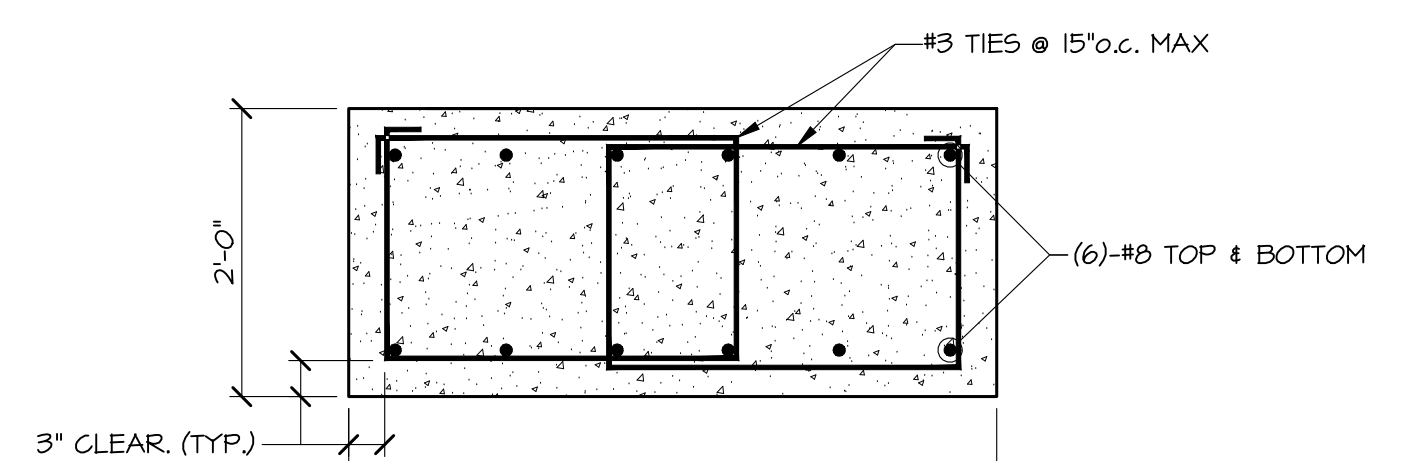
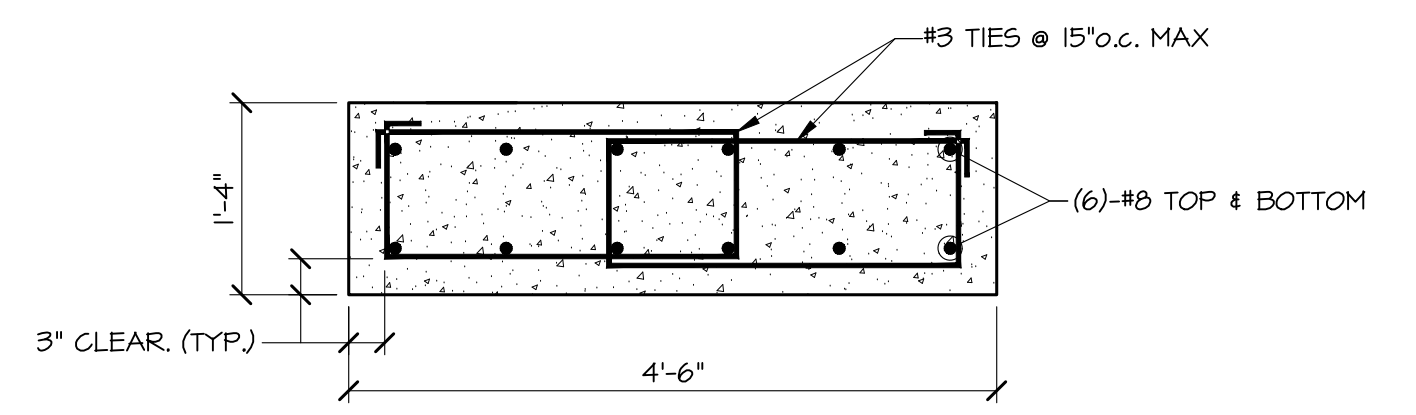
ANNE ARUNDEL COUNTY
 DEPARTMENT OF PUBLIC WORKS

STRUCTURAL
 NAAC SPLASH PAD
S401
 STRUCTURAL SECTIONS

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.

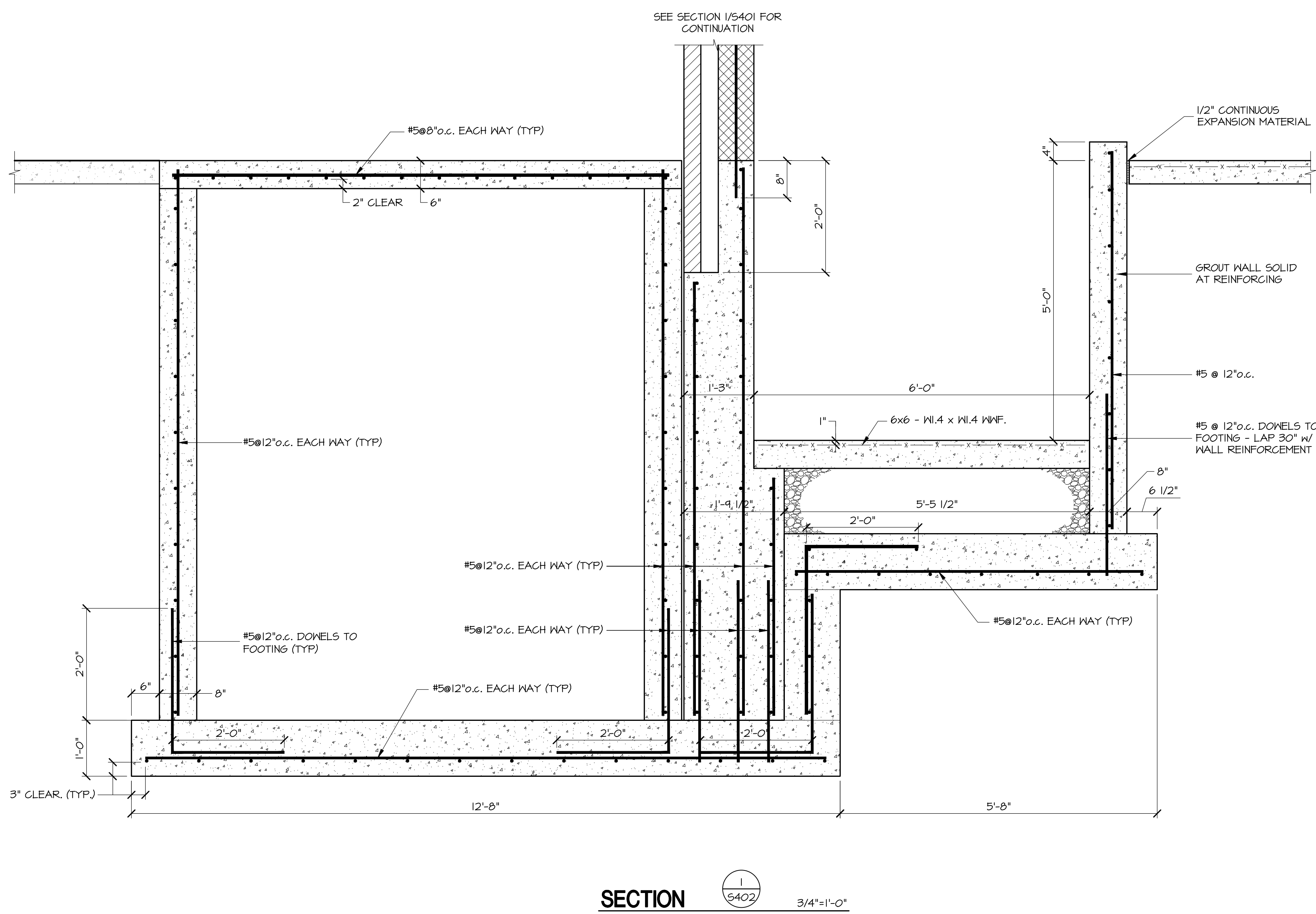


SPLASH PAD PIPING ASSUMED TO BE APPROXIMATELY 3'-0" BELOW GRADE; CONTRACTOR TO COORDINATE WITH SPLASH PAD PROVIDER. LOWER BOTTOM OF FOOTINGS AS REQUIRED TO BEAR IN UNDISTURBED SOIL AND TO BEAR BELOW THE INVERT ELEVATION OF THE PIPING.

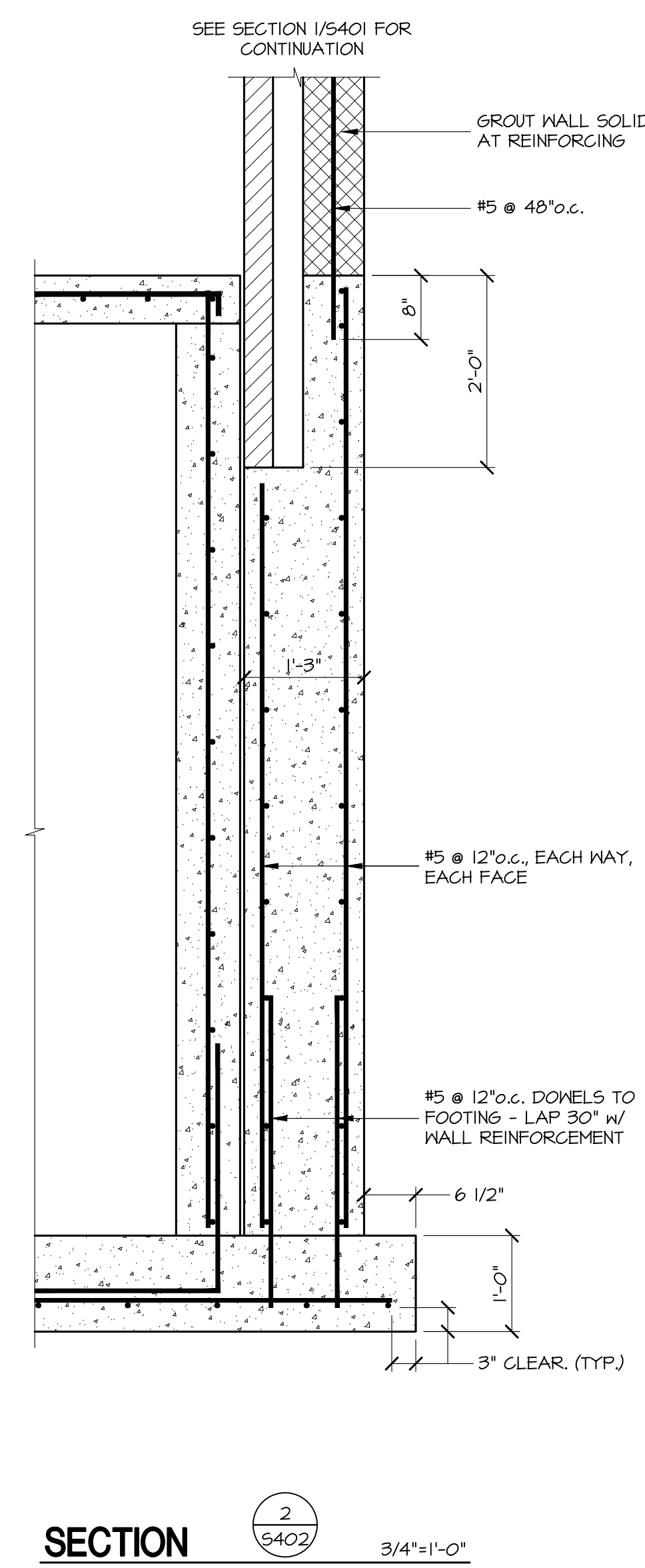


SECTION 4/5402 3/4"=1'-0"

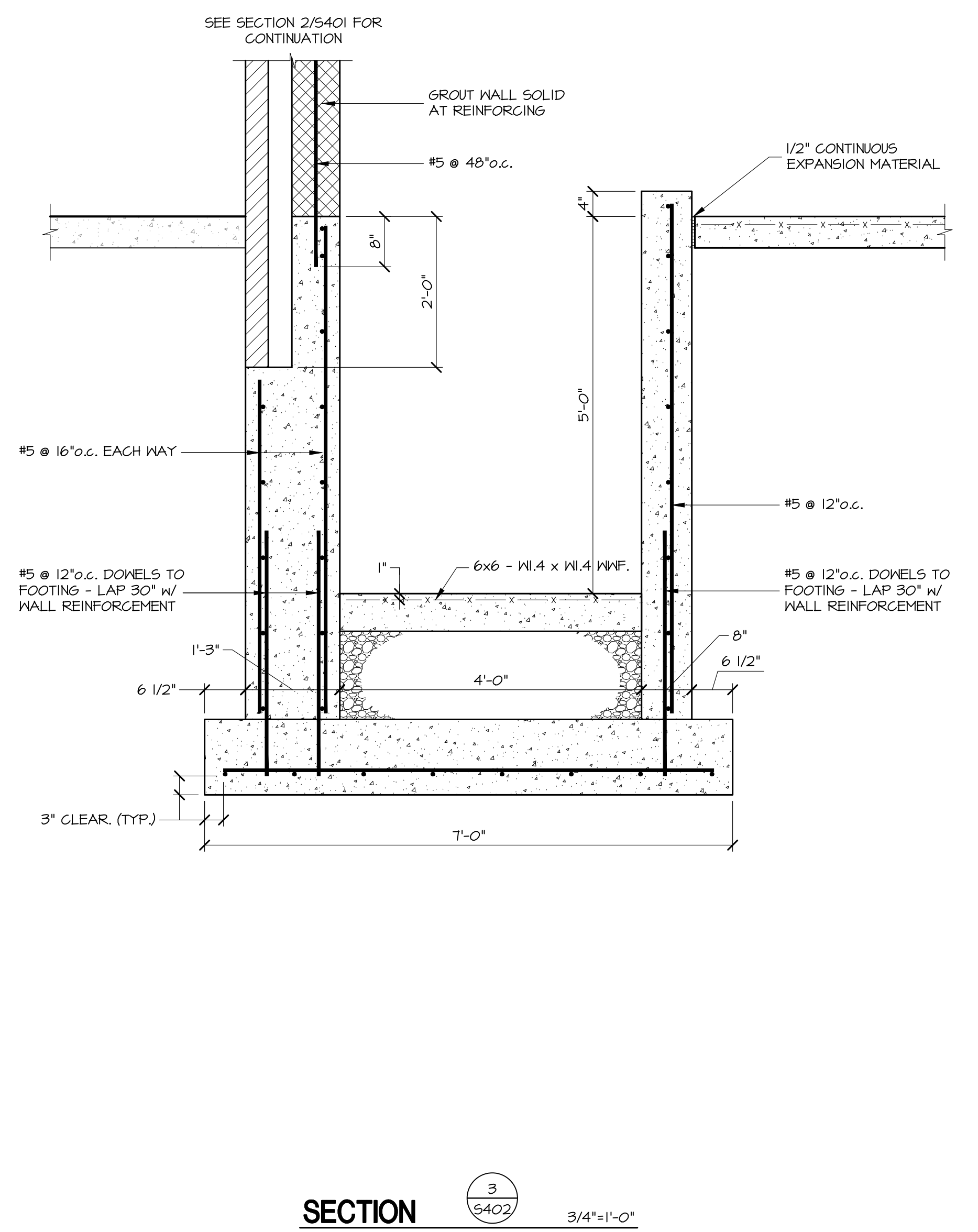
DETAIL A/5402 3/4"=1'-0"



SECTION 1/5402 3/4"=1'-0"

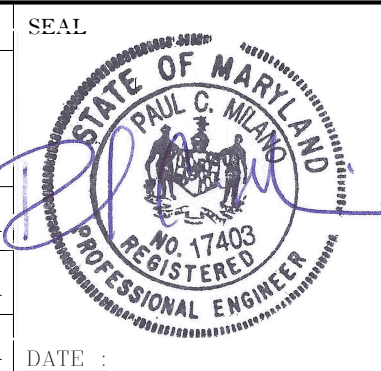


SECTION 2/5402 3/4"=1'-0"



SECTION 3/5402 3/4"=1'-0"

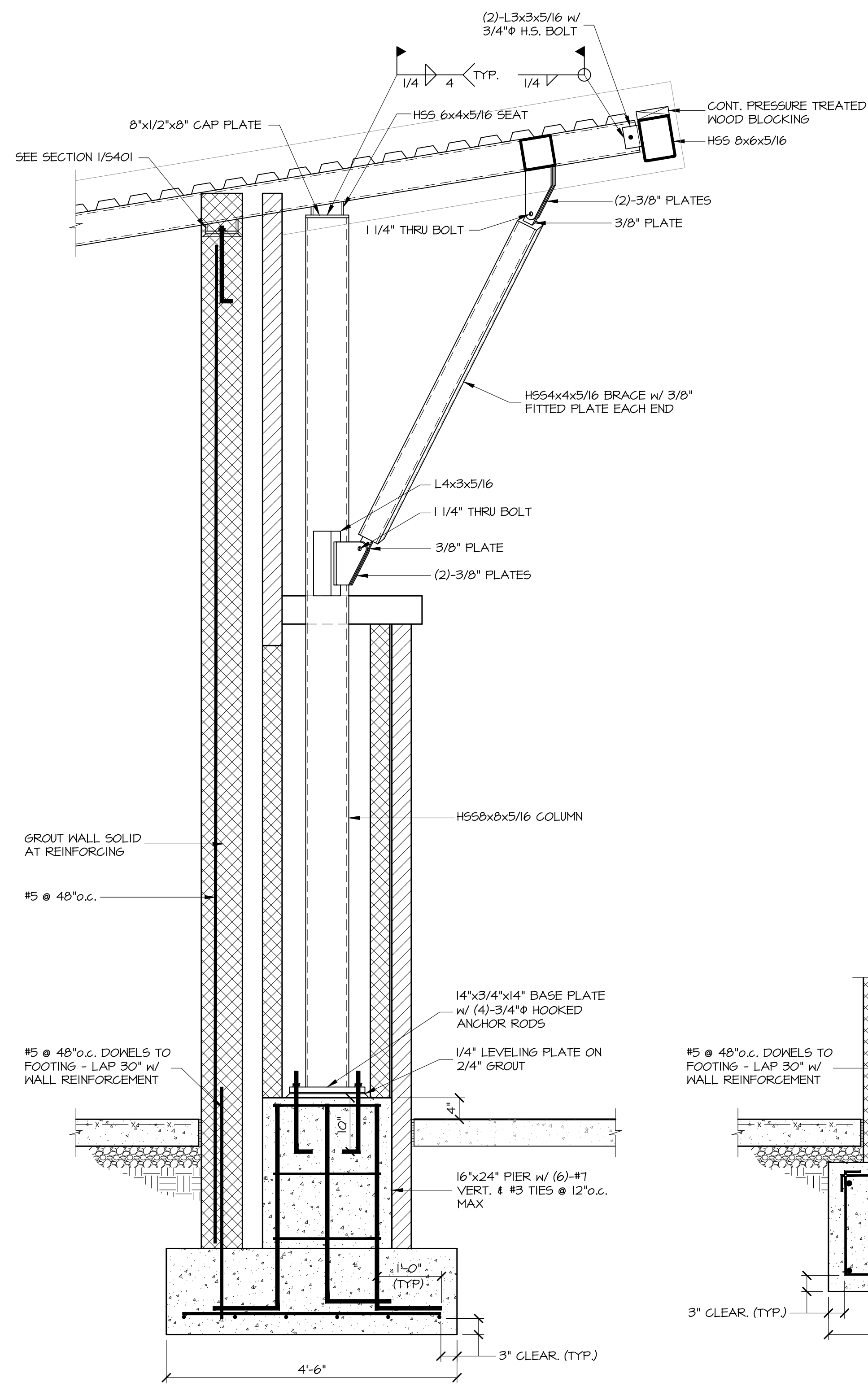
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 17403 EXPIRATION DATE: 09-29-2025
ENGINEER: PAUL MILANO, PE, PRINCIPAL ENGINEER
 MENVIN PATEL MILANO, INC.
 801 HARBOR ROAD
 BALTIMORE, MARYLAND 21111
 P 410-594-7500



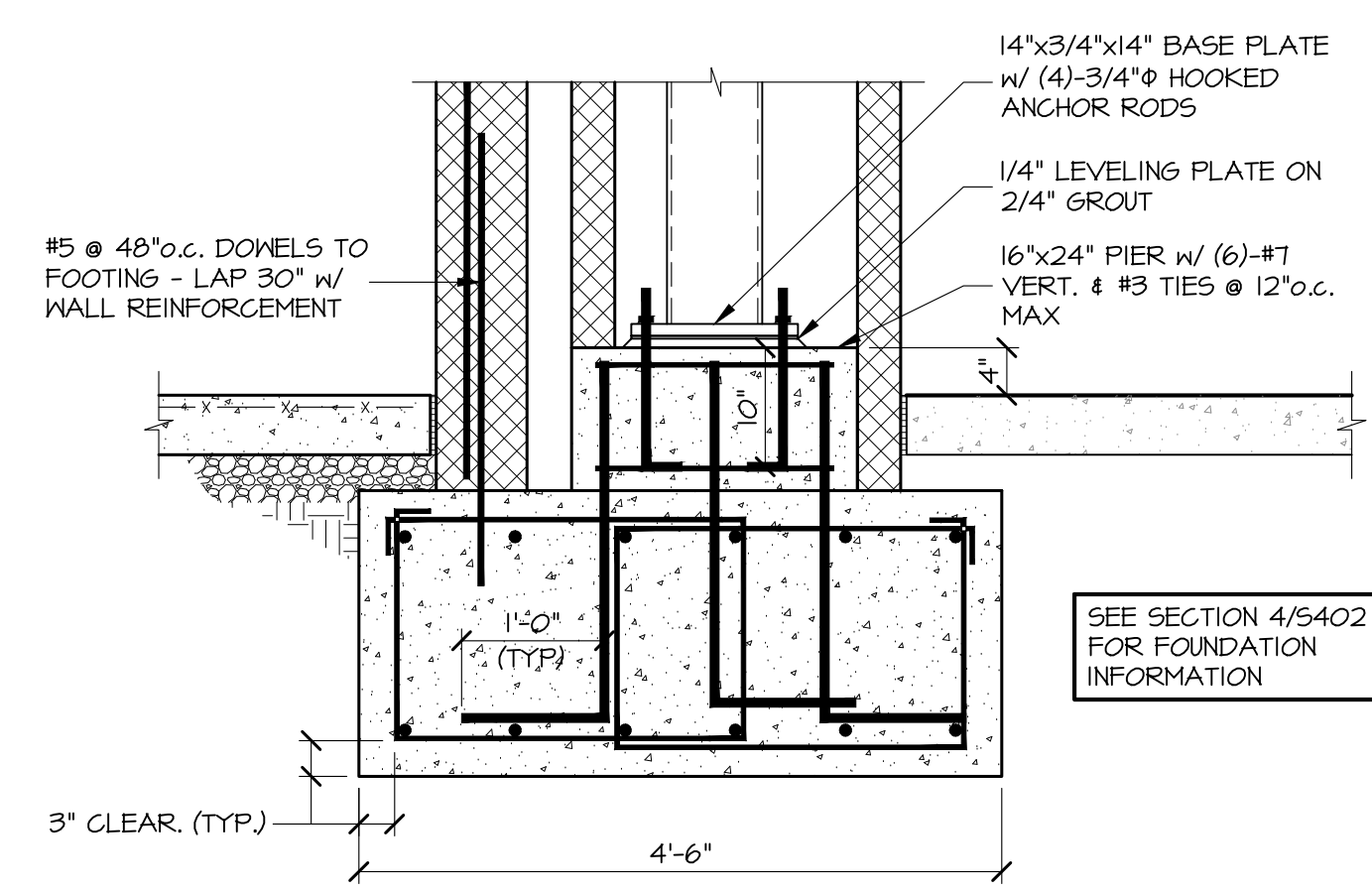
REVISION			
NO.	DESCRIPTION	BY	DATE
DD	Progress Submission		08/21/2023
90%	CD Submission		12/15/2023
	Building Permit		02/09/2024
	100% Construction Documents		07/01/2025

APPROVED			
DATE	DATE	DATE	DATE

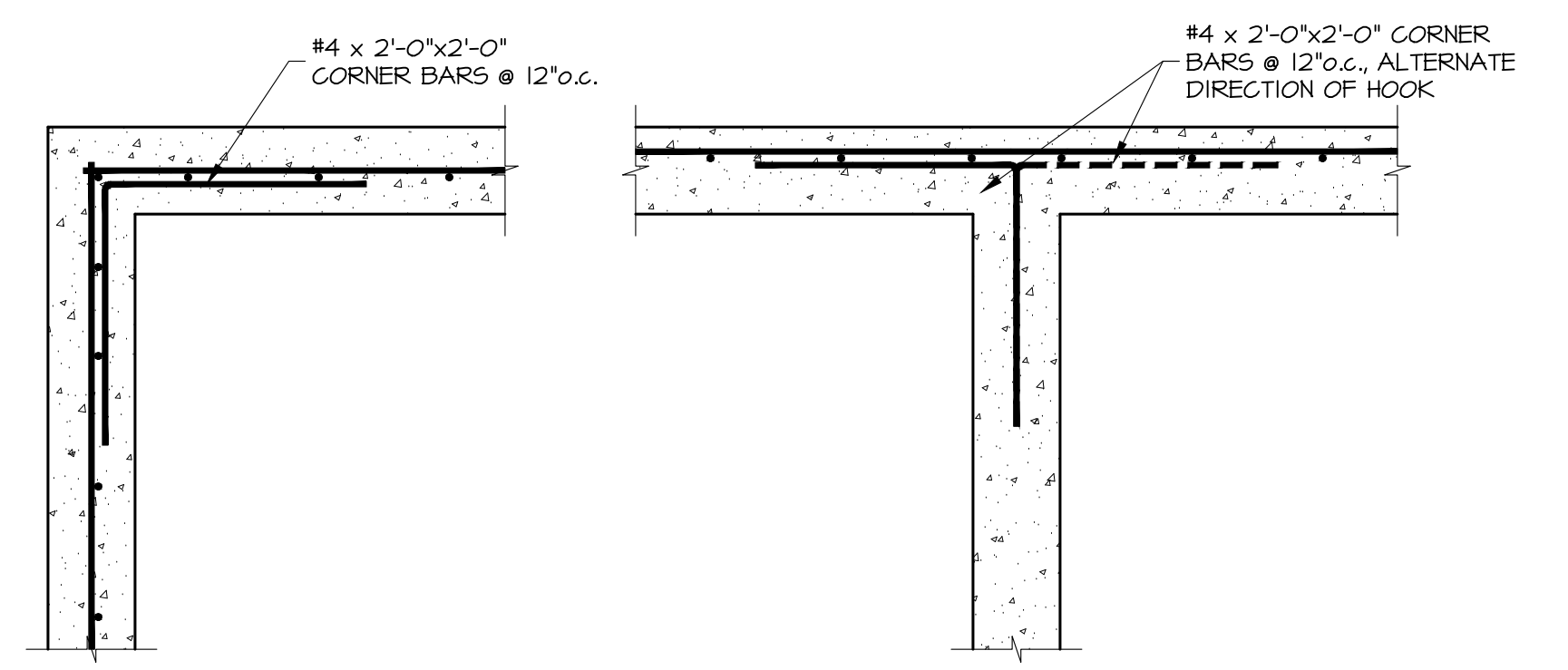
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	
SCALE	STRUCTURAL
DRAWN BY:	
CHECKED BY:	
SHEET NO.:	S402
PROJECT NO. F563100	NAAC SPLASH PAD
PROPOSAL NO. F563101	STRUCTURAL SECTIONS



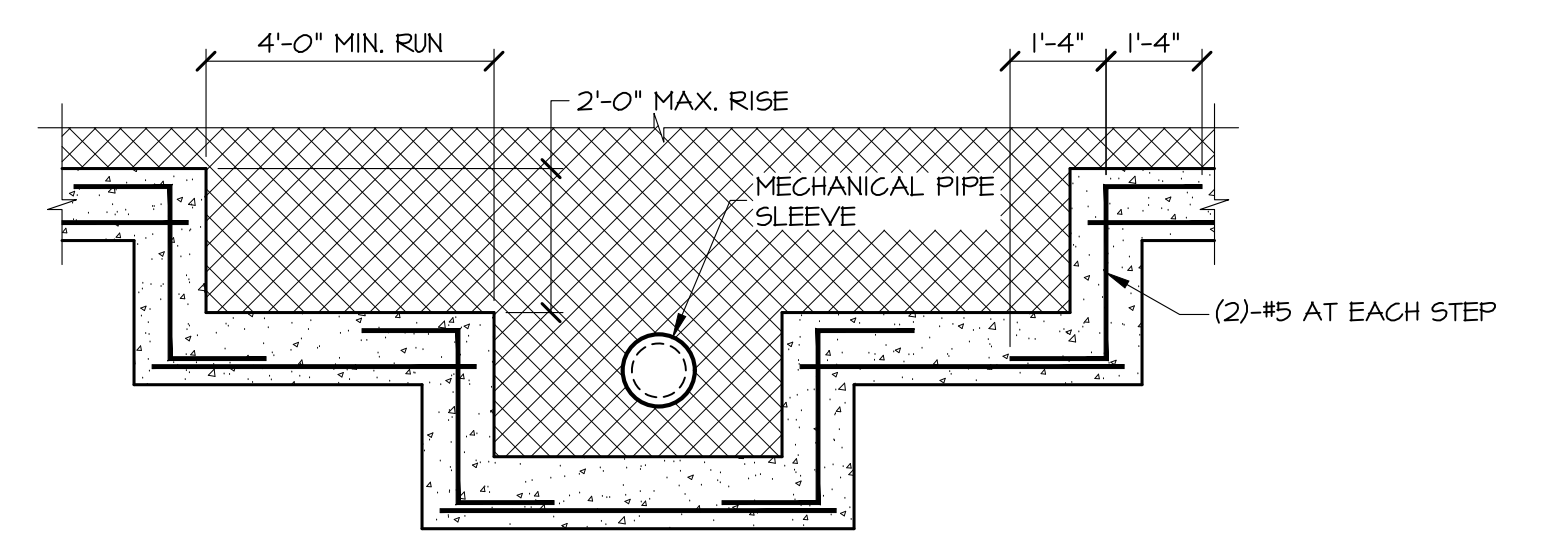
SECTION 1
5403 3/4"=1'-0"



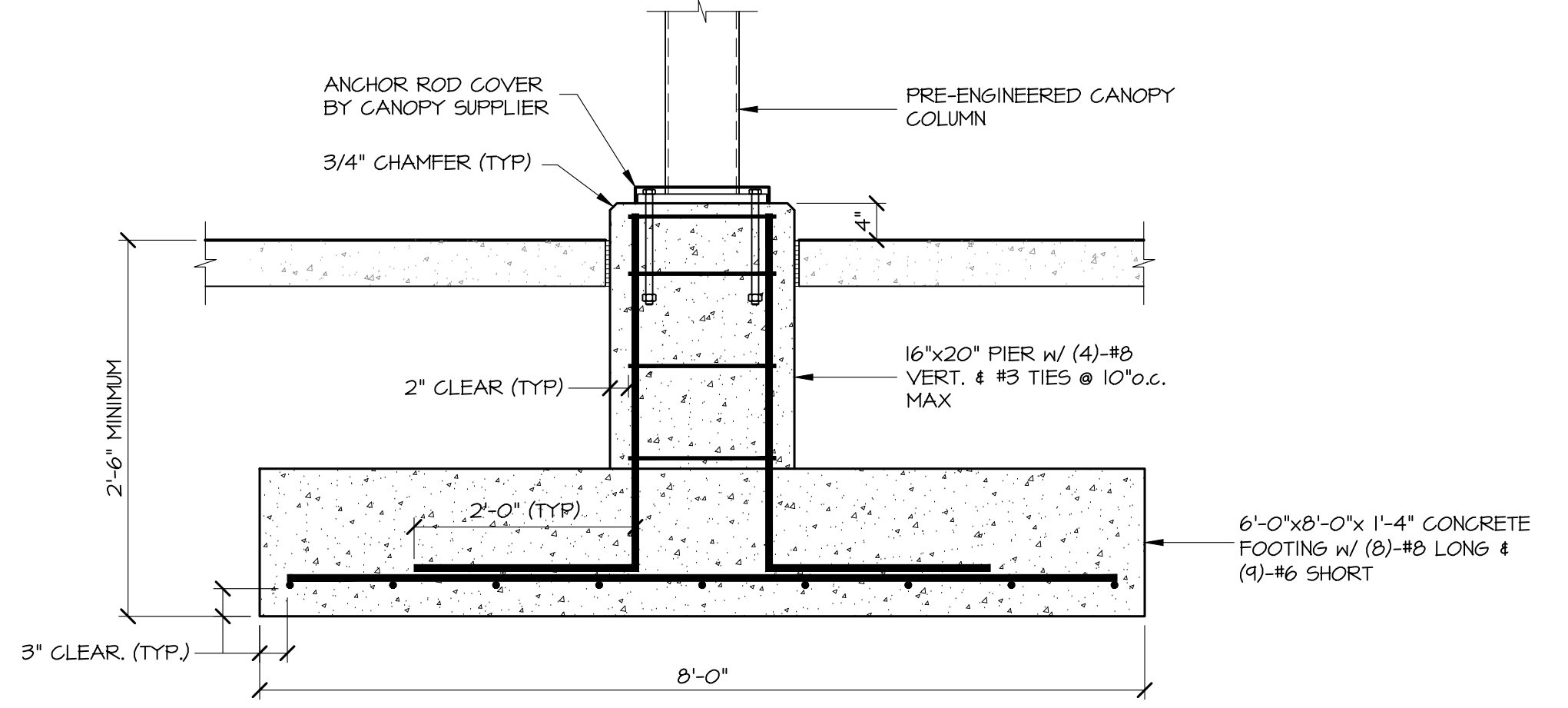
SECTION 2
5403 3/4"=1'-0"



DETAIL D
5403 3/4"=1'-0"
TYPICAL CORNER AND INTERSECTING
CONCRETE WALL REINFORCING



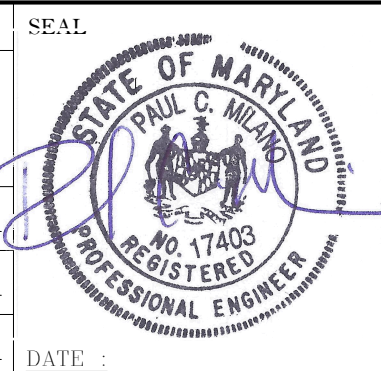
DETAIL B
5403 3/4"=1'-0"
TYPICAL STEPPED FOOTING



DETAIL A
5403 3/4"=1'-0"
TYPICAL CANOPY COLUMN FOOTING

- FOOTING TO STEP AS REQUIRED TO MAINTAIN FROST PROTECTION (BOTTOM OF FOOTING MINIMUM 2'-6" BELOW FINISHED GRADE), AND TO PASS BELOW ALL UTILITIES ENTERING/EXITING THE BUILDING.
- COORDINATE NUMBER AND LOCATION OF STEPS IN FOOTINGS WITH FINAL GRADES SHOWN ON THE CIVIL DRAWINGS AND PIPE/CONDUIT INVERT ELEVATIONS SHOWN ON THE MECHANICAL DRAWINGS.

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. 17403 EXPIRATION DATE: 09-29-2025
ENGINEER: PAUL MILANO, PE
PRINCIPAL ENGINEER
MENCIN PATEL MILANO, INC.
801 HARBOR ROAD
BALTIMORE, MARYLAND 21211
P: 410-494-7500



NO.	DESCRIPTION	BY	DATE
DD	Progress Submission		08/21/2023
90%	CD Submission		12/15/2023
	Building Permit		02/09/2024
	100% Construction Documents		07/01/2025

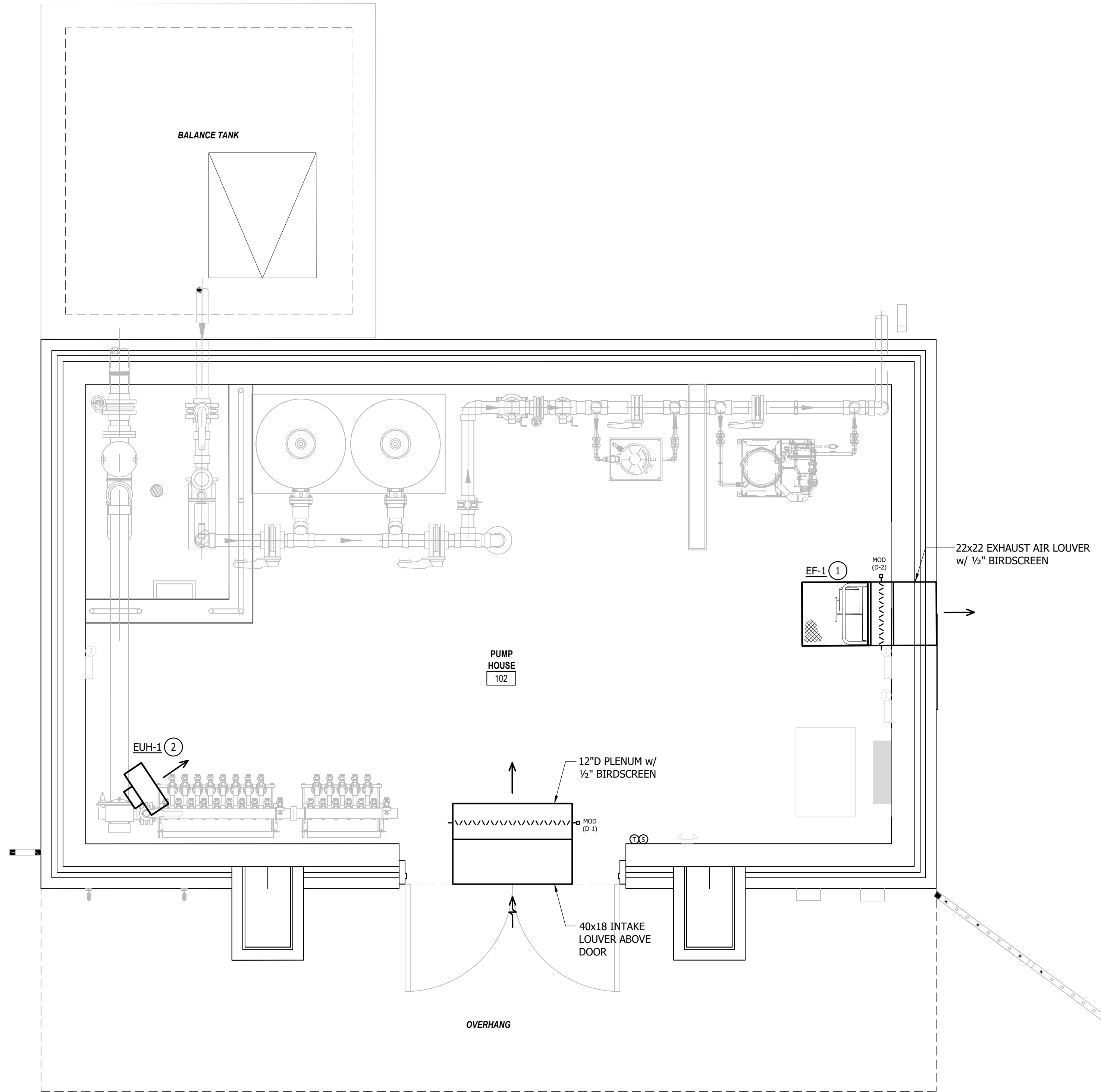
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	
SCALE	STRUCTURAL
DRAWN BY:	
CHECKED BY:	
SHEET NO.:	NAAC SPLASH PAD
PROJECT NO. F563100	S403
PROPOSAL NO. F563101	STRUCTURAL SECTIONS

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANN'S WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANN'S WOODWARD STUDIOS.

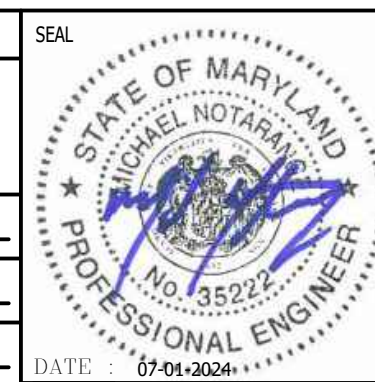
DRAWING NOTES:

- ① EXHAUST FAN w/ FACTORY INSTALLED OSHA GUARD HOUSING AND FAN SHALL BE MOUNTED A MAXIMUM OF 18" AFF.
- ② WASH-DOWN STYLE. MOUNTED AT 12'-0" AFF.



PUMP HOUSE FLOOR PLAN
SCALE: 1/2" = 1'-0"

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. 35222 EXPIRATION DATE: 01-05-2026



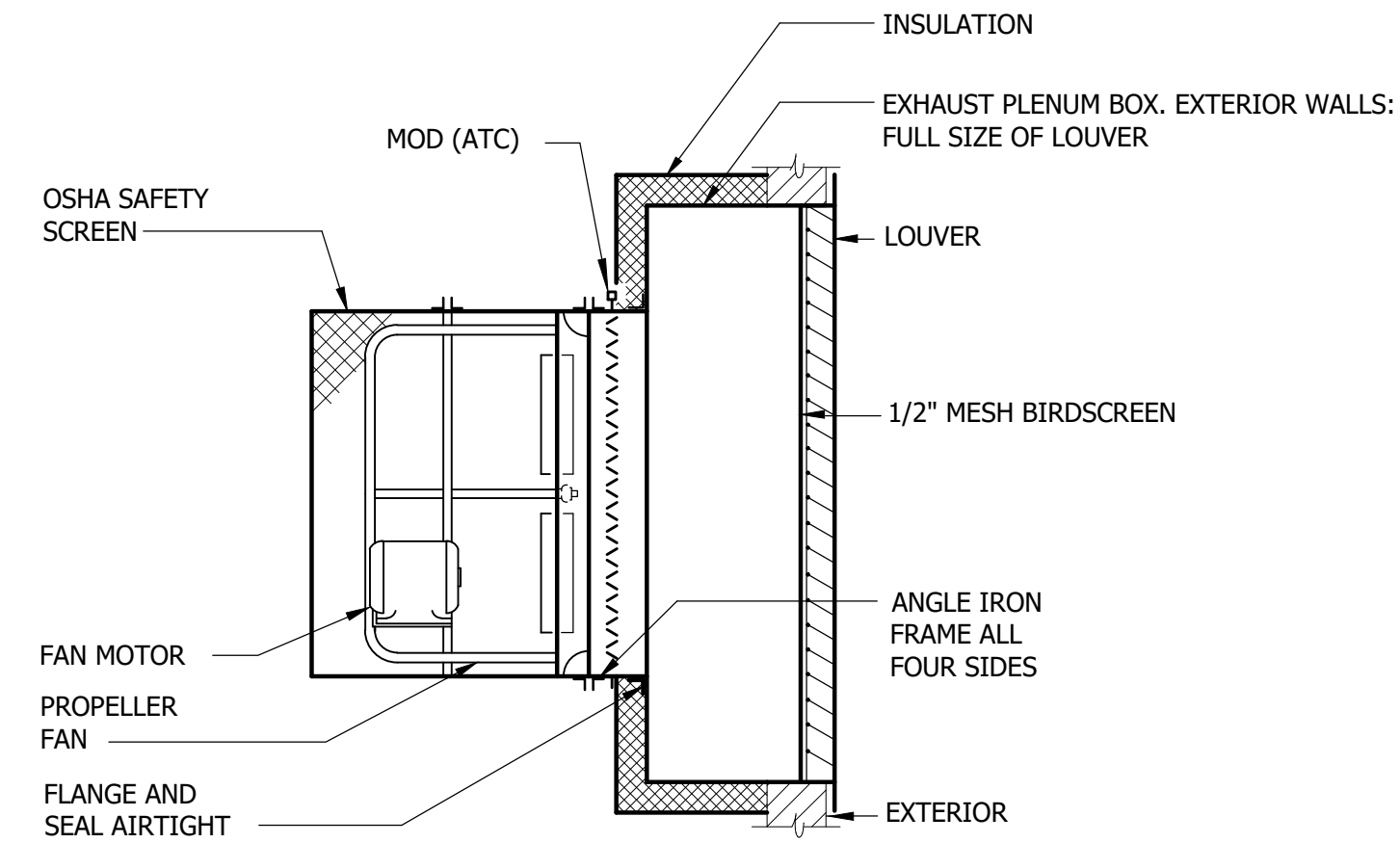
REVISION			
NO.	DESCRIPTION	BY	DATE
30%	SCHEMATIC DESIGN		06/22/2023
DD	PROGRESS SUBMISSION		08/21/2023
90%	CD		12/15/2023
	BUILDING PERMIT		02/09/2024
	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

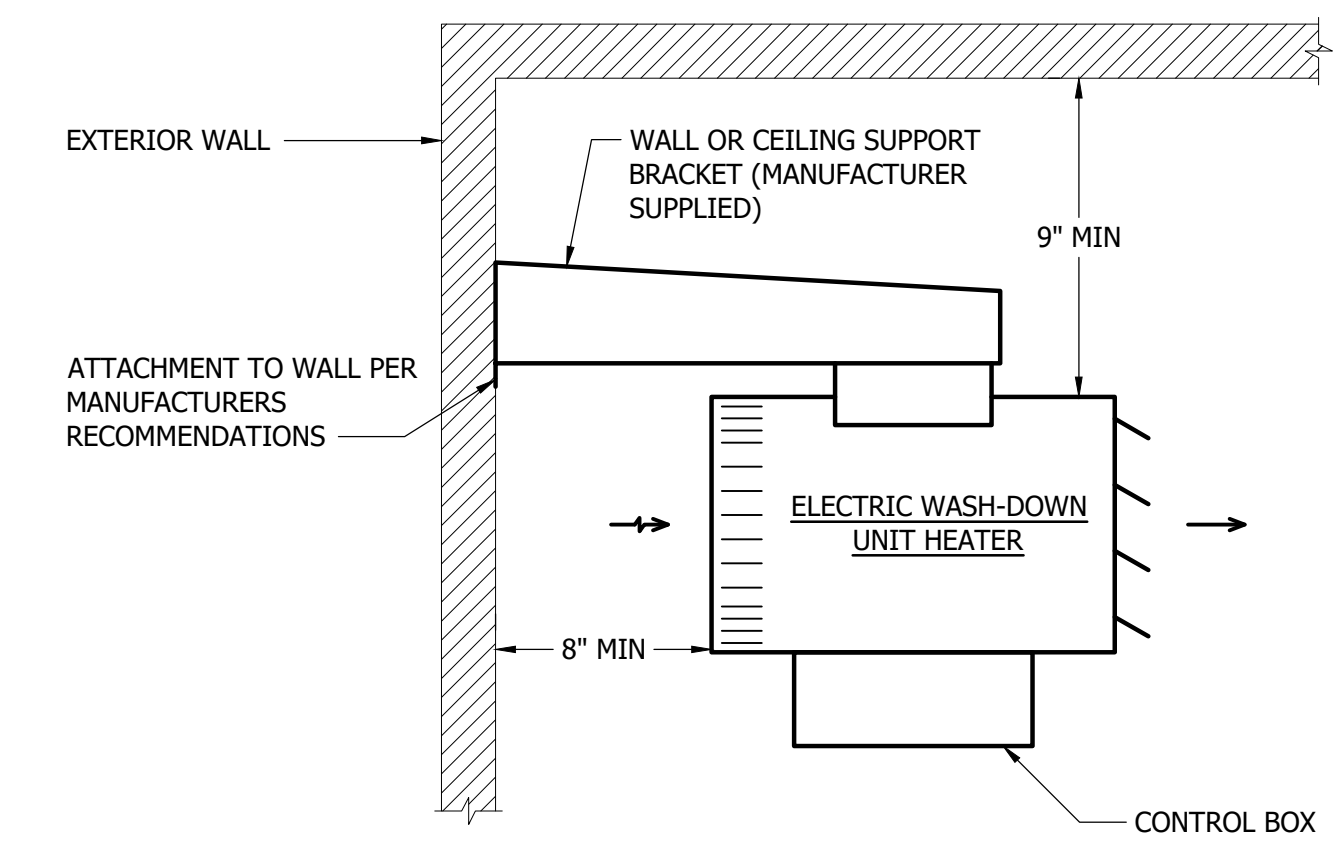
MECHANICAL	
SCALE: AS INDICATED	
DRAWN BY: TMF	
CHECKED BY: MPN	
SHEET NO.:	
PROJECT NO. F563100	
PROPOSAL NO.: F563101	

NORTH ARUNDEL AQUATIC CENTER
SPLASH PAD EXPANSION
7888 S. CRAIN HIGHWAY
GLEN BURNIE, MD 21061

M101
Sheet Name
PUMP HOUSE
FLOOR PLAN

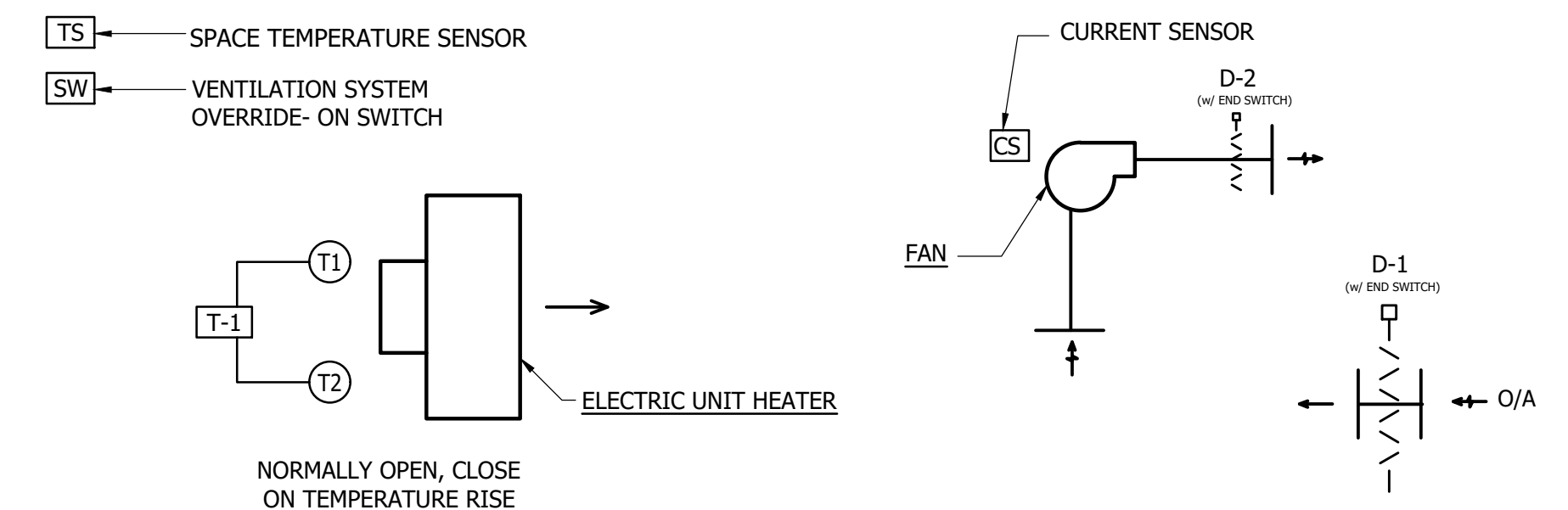


SIDEWALL DIRECT DRIVE EXHAUST FAN DETAIL
SCALE: NONE



- NOTES:
- CONTROL BOX SUPPLIED WITH MODE OF OPERATION, DISCONNECT AND INTEGRAL THERMOSTAT
 - MOUNTING HEIGHT SHALL BE NO HIGHER THAN 12'-0" AFF.
 - REFER TO MANUFACTURER INSTALLATION MANUAL FOR BRACKET ATTACHMENT RECOMMENDATIONS.

ELECTRIC WASH-DOWN UNIT HEATER DETAIL
SCALE: NONE



SEQUENCE OF OPERATION

- VENTILATION: SPACE TEMPERATURE SENSOR SHALL ON A RISE IN TEMPERATURE TO 90°F (ADJ), OPEN OUTSIDE AIR DAMPER 'D-1' & EXHAUST AIR MOTOR OPERATED DAMPER 'D-2' AND ENERGIZE FAN ONCE DAMPERS ARE PROVED OPEN BY ASSOCIATED END SWITCH. IN A FALL IN TEMPERATURE TO BELOW 85°F (ADJ), FAN NUMBER 3 SHALL DE-ENERGIZE AND DAMPERS 'D-1' AND 'D-2' SHALL CLOSE. PROVIDE A 5°F DEADBAND BETWEEN ENERGIZING/DE-ENERGIZING FANS TO PREVENT SHORT CYCLING.
- BAS - HIGH (105°F) AND LOW (40°F) TEMPERATURE ALARMS SHALL BE SENT TO BAS.
- ON A FALL IN ROOM TEMPERATURE TO 60°F (ADJUSTABLE), ROOM THERMOSTAT (OR A SEPARATE THERMOSTAT) SHALL START THE UNIT HEATER. INTEGRAL UNIT HEATER THERMOSTAT 'T-1' CYCLES HEATING SECTION TO MAINTAIN MINIMUM SPACE TEMPERATURE OF 65°F (ADJUSTABLE). ON A RISE IN TEMPERATURE TO 65°F (ADJUSTABLE), THE UNIT HEATER FAN SHALL STOP.

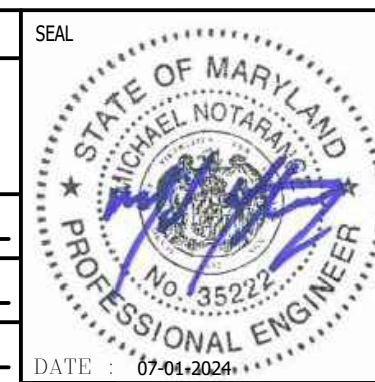
MECHANICAL EQUIPMENT ROOM HEATING & VENTILATION CONTROL DIAGRAM
SCALE: NONE

EXHAUST FAN SCHEDULE										
No. (EP-X)	SERVICE	LOCATION	CFM	MOTOR HP	TYPE	ESP (in w.g.)	FAN RPM	ELEC CHAR	REMARKS	BASIS OF DESIGN
								V/φ/Hz		
1	PUMP HOUSE	PUMP HOUSE	1150	1/4	STD	0.30	1696	120/1/60	SIDEWALL DIRECT DRIVE	GREENHECK SE1-12-432-A4

ELECTRIC UNIT HEATER SCHEDULE										
No. (EHP-X)	SERVICE	MOTOR TYPE	HEATER CAPACITY				ELEC. CHAR.		REMARKS	BASIS OF DESIGN
			CFM	kw	MBH	TEMP RISE	AMPS	V/φ/Hz		
1	PUMP HOUSE	PSC	700	3.0	10.2	14°	14.4	208/1/60	HORIZONTAL BLOW	QMARK QWD03812

- NOTES: 1. PROVIDE INTEGRAL THERMOSTAT & DISCONNECT SWITCH FOR EACH UNIT HEATER.

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. 35222 EXPIRATION DATE: 01-05-2026



REVISION			
NO.	DESCRIPTION	BY	DATE
	30% SCHEMATIC DESIGN		06/22/2023
	DD PROGRESS SUBMISSION		08/21/2023
	90% CD		12/15/2023
	BUILDING PERMIT		02/09/2024
	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

MECHANICAL

NORTH ARUNDEL AQUATIC CENTER
 SPLASH PAD EXPANSION
 7888 S. CRAIN HIGHWAY
 GLEN BURNIE, MD 21061

M201
 Sheet Name
 MECHANICAL DETAILS,
 CONTROLS & SCHEDULES

PLUMBING ABBREVIATIONS	
ABBREV	DESCRIPTION
AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR
ADA	AMERICAN DISABILITIES ACT
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AV	AIR VENT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BFP	BACKFLOW PREVENTOR
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACK WATER VALVE
CA	COMPRESSED AIR
CAP	CAPACITY
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CIP	CAST IRON PIPE
CL	CENTERLINE
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
D	DEEP/DIAMETER/DRAIN/DROP
DEG	DEGREES
DFU	DRAINAGE FIXTURE UNITS
DESIG	DESIGNATION
DIA	DIAMETER
DN	DOWN
DST	DEEP SEAL TRAP
DWG(S)	DRAWING(S)
E	EAST/ELECTRICAL
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATION/ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EXT	EXTERIOR
F	FAHRENHEIT/FIRE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FM	FLOW METER/FACTORY MUTUAL GLOBAL
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FT	FEET/FOOT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRADE
H	HEIGHT/HIGH/HUMIDITY SENSOR
HB	HOSE BIBB
HD	HEAD
HED	HOSE END DRAIN
HOA	HAND-OFF-AUTOMATIC SWITCH
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ
IN	INCH/INCHES
INSUL	INSULATION/INSULATED
INT	INTERIOR
INV	INVERT
IPS	IRON PIPE SIZE
KW	KILOWATT
L	LENGTH
LAV	LAVATORY
M	MECHANICAL
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL

PLUMBING ABBREVIATIONS	
ABBREV	DESCRIPTION
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
N	NORTH
N/A	NOT APPLICABLE
NC	NOISE CRITERIA/NORMALLY CLOSED
NFWH	NON-FREEZE WATER HYDRANT
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN/NUMBER
NOM	NOMINAL
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OC	ON CENTER
OHD	OPEN HUB DRAIN
OPP	OPPOSITE
OS&Y	OUTSIDE STEM & YOKE VALVE
P	PIPE/PLUMBING FIXTURE TYPE/PROJECT(NORTH)
PC	PUMPED CONDENSATE
PD	PRESSURE DROP/PUMP DISCHARGE
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSF	POUNDS PER SQUARE FOOT
PSI	PRESSURE-POUNDS PER SQUARE INCH
PSIG	PRESSURE-POUNDS PER SQUARE INCH, GAGE
PVC	POLYVINYL CHLORIDE
R	RADIUS/REFRIGERANT/REGISTER/RISE/RISER
REFRIG	REFRIGERANT/REFRIGERATION
REG	REGISTER/REGULATOR
REQD	REQUIRED
RET	RETURN
RL	RAIN LEADER/REFRIGERANT LIQUID
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
RX	REMOVE EXISTING
S	SANITARY/SOIL/SOUTH/SWITCH
SAN	SANITARY
SCH	SCHEDULE
SF	SQUARE FEET/SQUARE FOOT
SH	SHOWER
SP	SPRINKLER PIPING/STATIC PRESSURE SENSOR
SP	SPRINKLER LINE
SQ	SQUARE
SS	SERVICE SINK/STAINLESS STEEL
SSW	SECONDARY STORM WATER
STD	STANDARD
STL	STEEL
SW	STORM WATER
SWV	SECONDARY STORM WATER VENT
T	TEMPERATURE SENSOR/TRUE(NORTH)
TD	TRENCH DRAIN
TEMP	TEMPERATURE/TEMPORARY
TOP	TOP OF PIPE
TOT	TOTAL
TP	TOTAL PRESSURE
TS	TAMPER SWITCH
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
V	VACUUM/VALVE/VENT/VOLTS
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WASTE/WATER/WATTS/WEST/WIDTH
WC	WATER CLOSET/WATER COLUMN/WHEELCHAIR ACCESSIBLE
WCO	WALL CLEANOUT
WH	WALL HYDRANT/WATER HEATER/WALL-HUNG
WHA	WATER HAMMER ARRESTOR
WPD	WATER PRESSURE DROP
WSFU	WATER SUPPLY FIXTURE UNITS
WT	WEIGHT

GENERAL PLUMBING LEGEND	
SYMBOL	DEFINITION
∅	DIAMETER (OR ELECTRICAL PHASE)
⊕	CONNECT TO EXISTING
⊖	DEMOLITION ENDS HERE
②	DRAWING NOTE DESIGNATION
	PART PLAN NUMBER
	SHEET NUMBER
	SECTION NUMBER
	DRAWING SECTION APPEAR ON

PIPING LEGEND	
SYMBOL	DEFINITION
	CONDENSATE DRAIN LINE
	NON-POTABLE WATER
	PITCH OF PIPE, % SLOPE
	PIPE-TURN DOWN
	PIPE-TURN UP
	PIPE DROP INTO
	PIPE TAP INTO BOTTOM
	2-LINE PIPE DOWN
	2-LINE PIPE UP
	END CAP
	DIRECTION OF FLOW
	BALL VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF OR SAFETY VALVE
	UNION
	FLANGE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	MANUAL AIR VENT
	THERMOMETER
	PRESSURE GAUGE W/NEEDLE VALVE

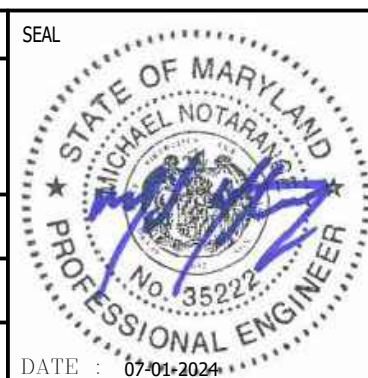
PLUMBING LEGEND	
SYMBOL	DEFINITION
	COLD WATER
	SANITARY
	VENT
	FLOOR CLEANOUT
	CLEANOUT
	PIPE UP & DOWN
	FLOOR DRAIN
	TRAP (ELEVATION)
	VENT THROUGH ROOF (ELEVATION)
	VENT THROUGH ROOF (PLAN)
	NON-FREEZE WALL HYDRANT/ROOF HYDRANT
	HOSE BIBB (ELEV.)
	HOSE END DRAIN
	WATER HAMMER ARRESTOR
	POINT OF CONN. TO SITE UTILITIES
	AUTOMATIC AIR VENT

GENERAL NOTES	
1.	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE, COUNTY AND LOCAL CODES, REGULATIONS AND ORDINANCES. MATERIAL, EQUIPMENT, INSTALLATION, AND PROCEDURES SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST CURRENT EDITION OF THE REFERENCED DOCUMENTATION. A. REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION. B. NFPA-NATIONAL FIRE PROTECTION ASSOCIATION. C. ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS. D. ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS. E. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION & AIR CONDITIONING ENGINEERS, INC. LATEST EDITION OF STANDARD 90.1. F. INTERNATIONAL BUILDING CODE - 2018. G. INTERNATIONAL ENERGY CONSERVATION CODE - 2018. H. INTERNATIONAL FIRE CODE - 2018. I. INTERNATIONAL GREEN CONSTRUCTION CODE - 2018. J. INTERNATIONAL MECHANICAL CODE - 2018. K. INTERNATIONAL PLUMBING CODE - 2018.
2.	CONTRACTORS SHALL BE RESPONSIBLE TO VERIFY AND FAMILIARIZE THEMSELVES WITH ACTUAL FIELD CONDITIONS ASSOCIATED WITH WORK UNDER THIS CONTRACT PRIOR TO SUBMITTING THEIR BID.
3.	THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
4.	RUN ALL SOIL, WASTE, AND DRAIN PIPING WITH 2% MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.
5.	ELEVATIONS NOTED ARE TO CENTER LINES OF PIPES FOR ALL PRESSURE LINES AND TO INVERT FOR ALL GRAVITY FLOW LINES.
6.	ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN-LINE WHERE PIPE SIZE CHANGES.
7.	MAINTAIN MINIMUM OF 3'-0" COVER OVER UNDERGROUND WATER MAINS.
8.	PROVIDE SHUT-OFF VALVES IN DOMESTIC BRANCH WATER PIPES SERVING TWO OR MORE FIXTURES.
9.	UNLESS OTHERWISE NOTED, WHERE HOT AND COLD PIPING DROPS INTO PIPE CHASE, THE SIZE INDICATED SHALL BE PROVIDED TO THE LAST FIXTURE RUNOUT.
10.	PROVIDE ISOLATION VALVES AS INDICATED ON THE DRAWINGS, DETAILS AND AS REQUIRED SO THAT EQUIPMENT AND INSTRUMENTS IN THE SYSTEM CAN BE ISOLATED FOR SERVICE AND MAINTENANCE.
11.	UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB AND STRUCTURE, WITH SPACE FOR INSULATION, IF REQUIRED.
12.	INSTALL PIPING SO THAT ALL VALVES ARE ACCESSIBLE.
13.	COORDINATE ALL PLUMBING WORK WITH MECHANICAL WORK, FIRE PROTECTION, AND ELECTRICAL WORK ETC., SHOWN ON OTHER DRAWINGS.
14.	MAINTAIN MINIMUM 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, SUSPENDED EQUIPMENT, ETC.
15.	CERTAIN ITEMS SUCH AS CLEAN-OUTS, ACCESS DOORS, RISES AND DROPS IN PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THOSE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
16.	EQUIPMENT CONNECTION SIZES MAY DIFFER FROM INDICATED PIPE SIZES. PROVIDE APPROPRIATE TRANSITIONS AT THE EQUIPMENT WHERE REQUIRED.
17.	THE DRAWINGS ARE DIAGRAMMATIC AND ALL OFFSETS, FITTINGS, TRANSITIONS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. COORDINATE THE INSTALLATION OF ALL PIPING, EQUIPMENT AND OTHER WORK WITH ALL OTHER TRADES.
18.	IT IS THE INTENT THAT ALL WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT MATERIAL OR WORK SPECIFICALLY NOT INDICATED ON THE DRAWINGS, BUT NECESSARY TO COMPLETE THE WORK, SHALL BE PROVIDED.
19.	EXPOSED PIPING SHALL BE FINISHED AND PAINTED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
20.	PROVIDE A MINIMUM OF 36-INCHES OF CLEARANCE TO ALL EQUIPMENT THE ELECTRICAL COMPONENT LOCATIONS.
21.	CONTRACTOR IS PROHIBITED FROM ATTACHING TO THE ROOF DECK AND LOWER CHORD OF JOISTS AS A SUPPORT SYSTEM FOR DEVICES AND BUILDING SYSTEMS.
22.	ALL PIPE PENETRATIONS IN EXPOSED AREAS SHALL HAVE ESCUTCHEON PLATES.
23.	FIXTURES SUBJECT TO INTERMITTENT OR CONTINUOUS BACK-SIPHONAGE SHALL BE PROVIDED WITH A REQUIRED BACKFLOW PREVENTION DEVICE.
24.	PROVIDE ALL NECESSARY COMPONENTS FOR U.L. LISTED THROUGH PENETRATION SYSTEM AT RATED FLOORS, CEILING AND WALL PENETRATIONS IN ORDER TO MAINTAIN THE REQUIRED ASSEMBLY RATING. REFER TO ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS AND CONSTRUCTION.
25.	ALL PLUMBING FIXTURES, EQUIPMENT, AND DEVICES THAT CONTACT POTABLE WATER MUST BE LEAD FREE PER STATE REQUIREMENTS. POTABLE WATER SYSTEMS AND COMPONENTS SHALL COMPLY WITH NSF 61 - ANNEX G AND NSF-372.

PLUMBING FIXTURE SCHEDULE							
DESIG.	FIXTURE	ROUGH-IN		WSFU/DFU		FLOW RATE (GPM)	REMARKS
		CW	SAN	CW	SAN		
P1	OUTDOOR SHOWER	1/2"	-	10	-	2.0	EXTERIOR WALL HUNG - ADA COMPLIANT
FDR-1	FLOOR DRAIN	-	4"	-	6	-	MECHANICAL & UTILITY ROOMS

NOTE: 1. REFER TO DRAWINGS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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. 35222 EXPIRATION DATE: 01-05-2026



REVISION			
NO.	DESCRIPTION	BY	DATE
30%	SCHEMATIC DESIGN		06/22/2023
DD	PROGRESS SUBMISSION		08/21/2023
90%	CD		12/15/2023
	BUILDING PERMIT		02/09/2024
	100% CONSTRUCTION DOCUMENTS		07/01/2024

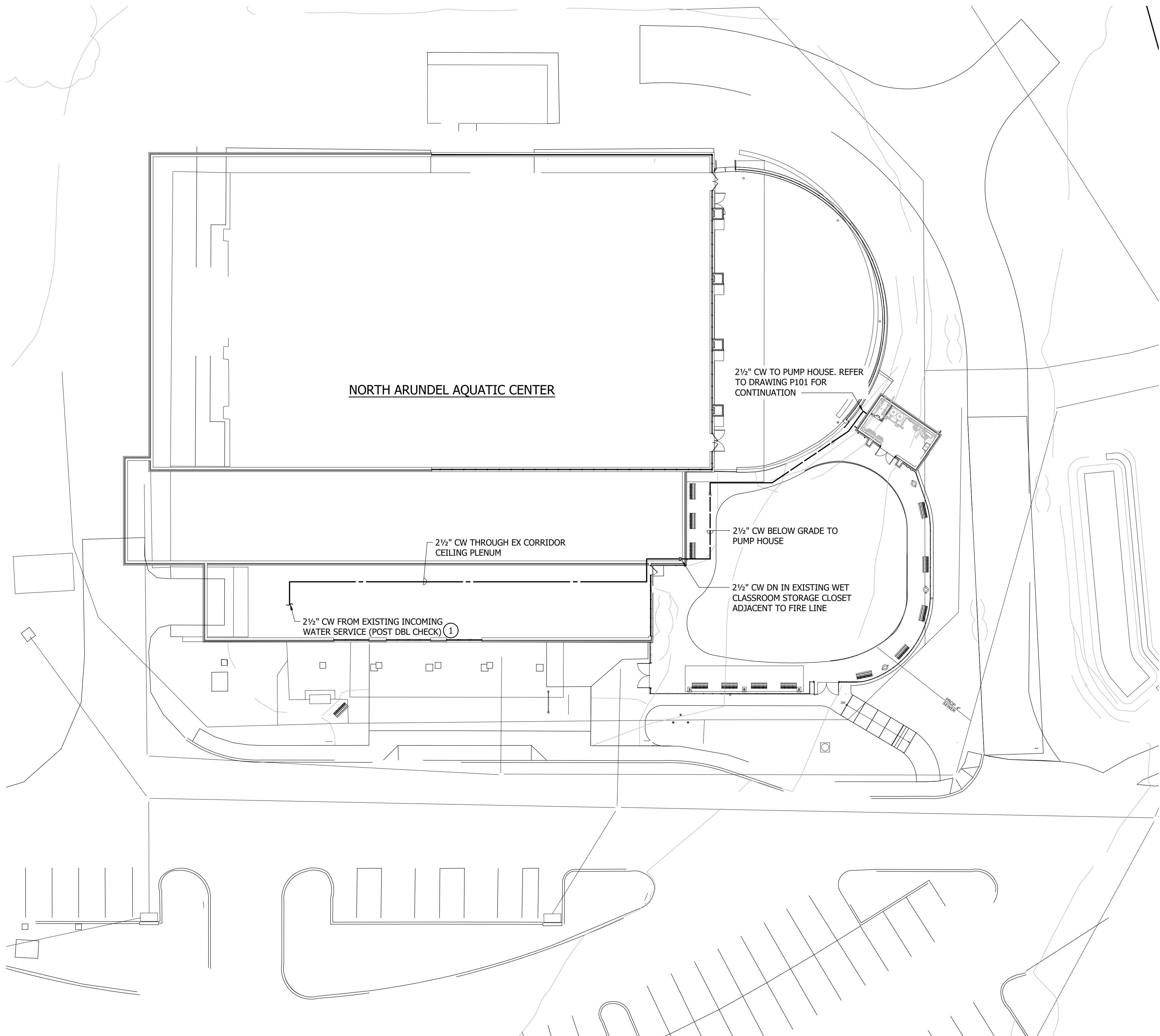
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

PLUMBING	
SCALE:	AS INDICATED
DRAWN BY:	TMF
CHECKED BY:	MPN
SHEET NO.:	
PROJECT NO.:	F563100
PROPOSAL NO.:	F563101

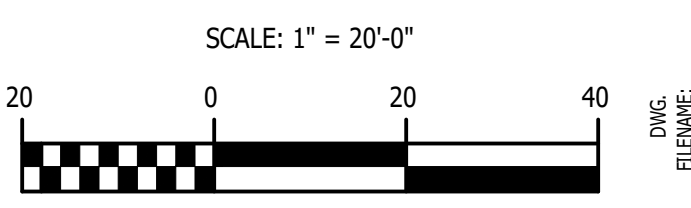
NORTH ARUNDEL AQUATIC CENTER
 SPLASH PAD EXPANSION
 7888 S. CRAIN HIGHWAY
 GLEN BURNIE, MD 21061

P001
 Sheet Name
 PLUMBING LEGEND &
 GENERAL NOTES

DRAWING NOTES:
 ① REFER TO DOMESTIC COLD WATER RISER DIAGRAM, DETAIL 8/P201 FOR ADDITIONAL INFORMATION.



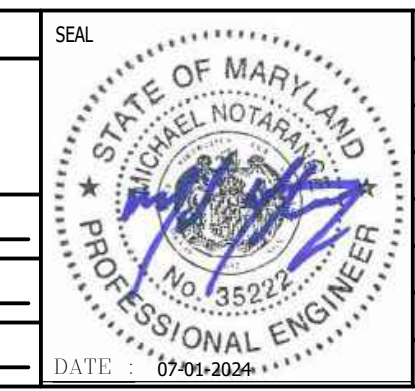
PLUMBING SITE PLAN
 SCALE: 1" = 20'-0"



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. 35222 EXPIRATION DATE: 01-05-2026

ARCHITECT:
 DAVID WOODWARD, AIA
 PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS
 10825 O PHILADELPHIA ROAD
 WHITE HANGS, MARYLAND 21162
 (P) 410-341-1400

DGN BY: _____
 DWN BY: _____
 CHKD BY: _____



REVISION			
NO.	DESCRIPTION	BY	DATE
1	30% SCHEMATIC DESIGN		06/22/2023
2	DD PROGRESS SUBMISSION		08/21/2023
3	90% CD		12/15/2023
4	BUILDING PERMIT		02/09/2024
5	100% CONSTRUCTION DOCUMENTS		07/01/2024

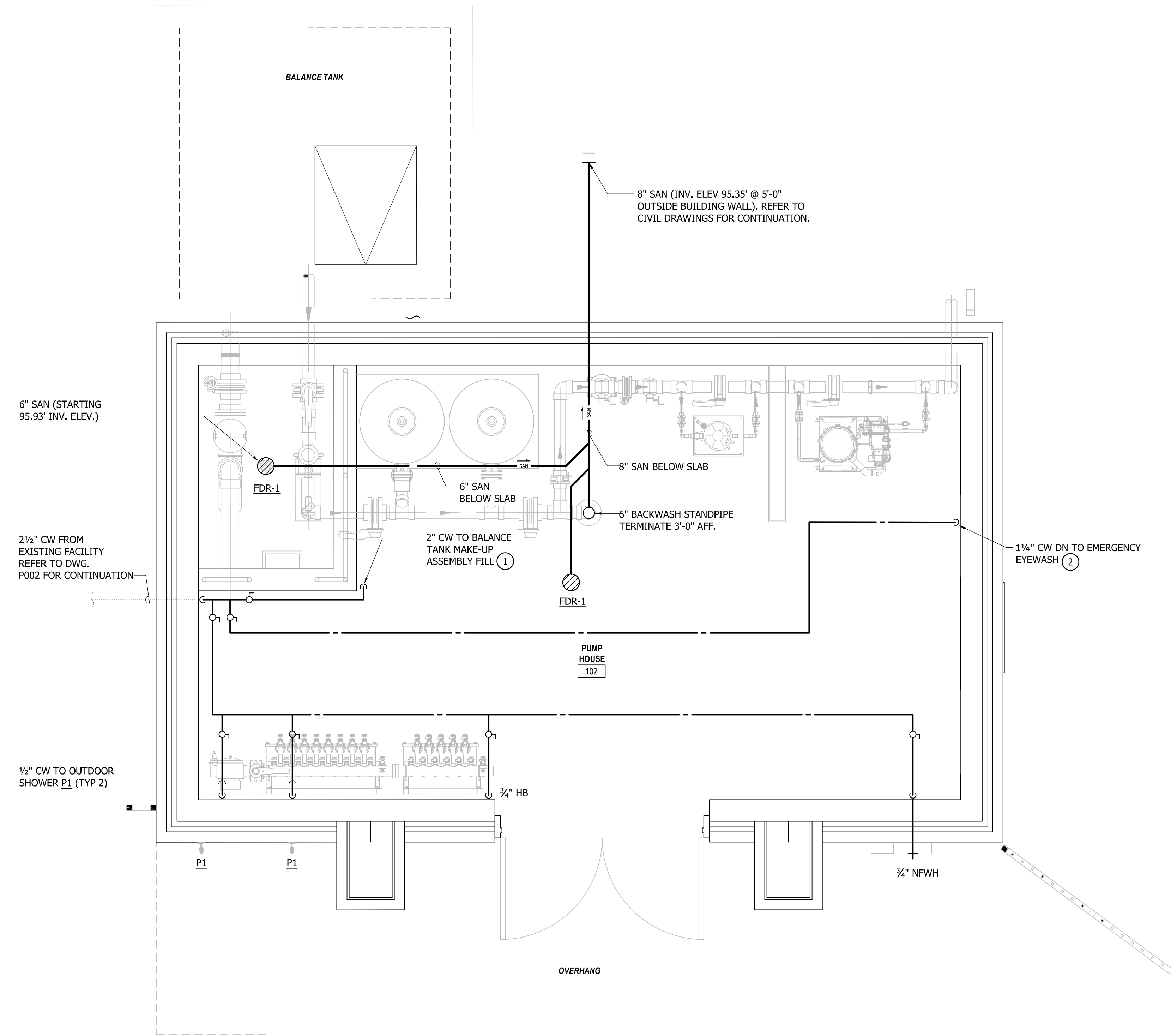
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

PLUMBING	
SCALE: AS INDICATED	
DRAWN BY: TMF	
CHECKED BY: MPN	
SHEET NO.:	
PROJECT NO. F563100	
PROPOSAL NO.: F563101	

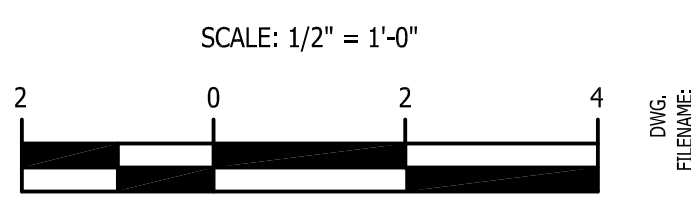
NORTH ARUNDEL AQUATIC CENTER SPLASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061	P002 Sheet Name PLUMBING SITE PLAN
--	---

DRAWING NOTES:

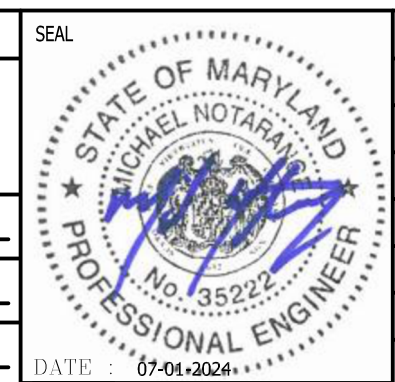
- ① REFER TO "MR" SERIES DRAWINGS FOR COORDINATION OF EQUIPMENT LAYOUT AND CONNECTION POINTS.
- ② REFER TO ARCHITECTURAL DRAWINGS FOR FINAL LOCATION AND DIVISION 13 SPECIFICATION FOR ADDITIONAL INFORMATION.



PUMP HOUSE FLOOR PLAN
 SCALE: 1/2" = 1'-0"
 PUMP HOUSE FF ELEV: 102.68; PIT FF ELEV: 97.68'



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. 35222 EXPIRATION DATE: 01-05-2026
 ARCHITECT: DAVID WOODWARD, AIA
 PRINCIPAL ARCHITECT
 MANN'S WOODWARD STUDIOS
 10820 PHILADELPHIA ROAD
 WHITE HARBOR, MARYLAND 21162
 (410) 340-4400



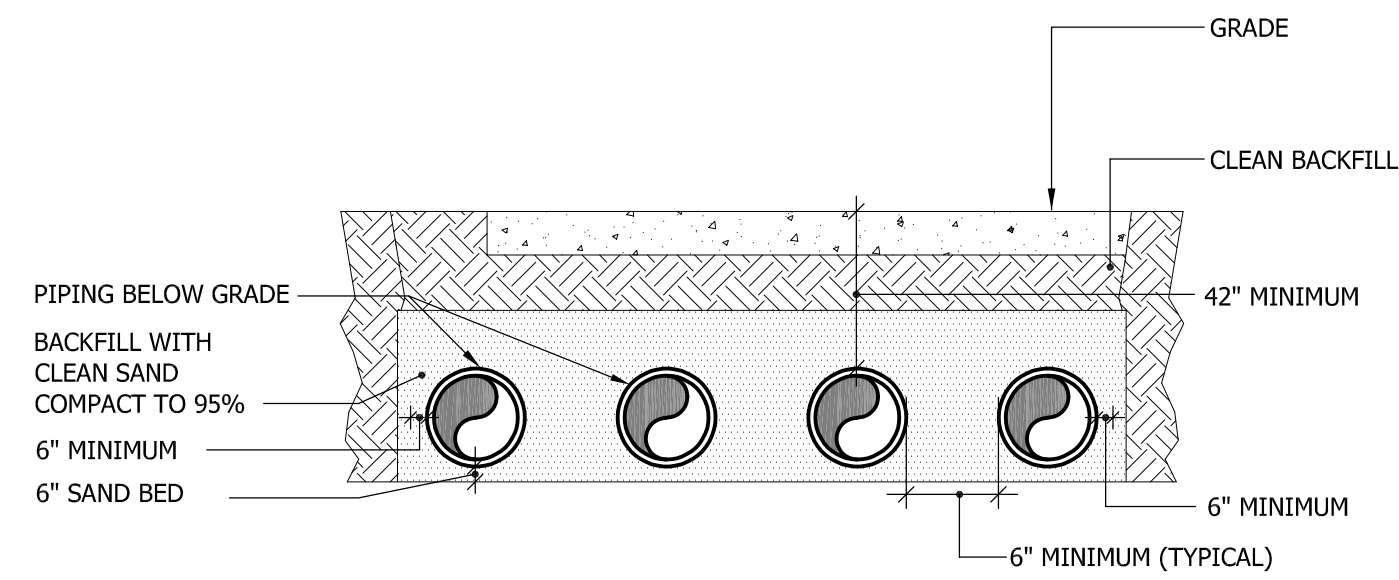
REVISION			
NO.	DESCRIPTION	BY	DATE
1	30% SCHEMATIC DESIGN		06/22/2023
2	DD PROGRESS SUBMISSION		08/21/2023
3	90% CD		12/15/2023
4	BUILDING PERMIT		02/09/2024
5	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

PLUMBING	
SCALE: AS INDICATED	
DRAWN BY: TMF	
CHECKED BY: MPM	
SHEET NO.:	
PROJECT NO. F563100	
PROPOSAL NO.: F563101	

NORTH ARUNDEL AQUATIC CENTER
 SPLASH PAD EXPANSION
 7888 S. CRAIN HIGHWAY
 GLEN BURNIE, MD 21061

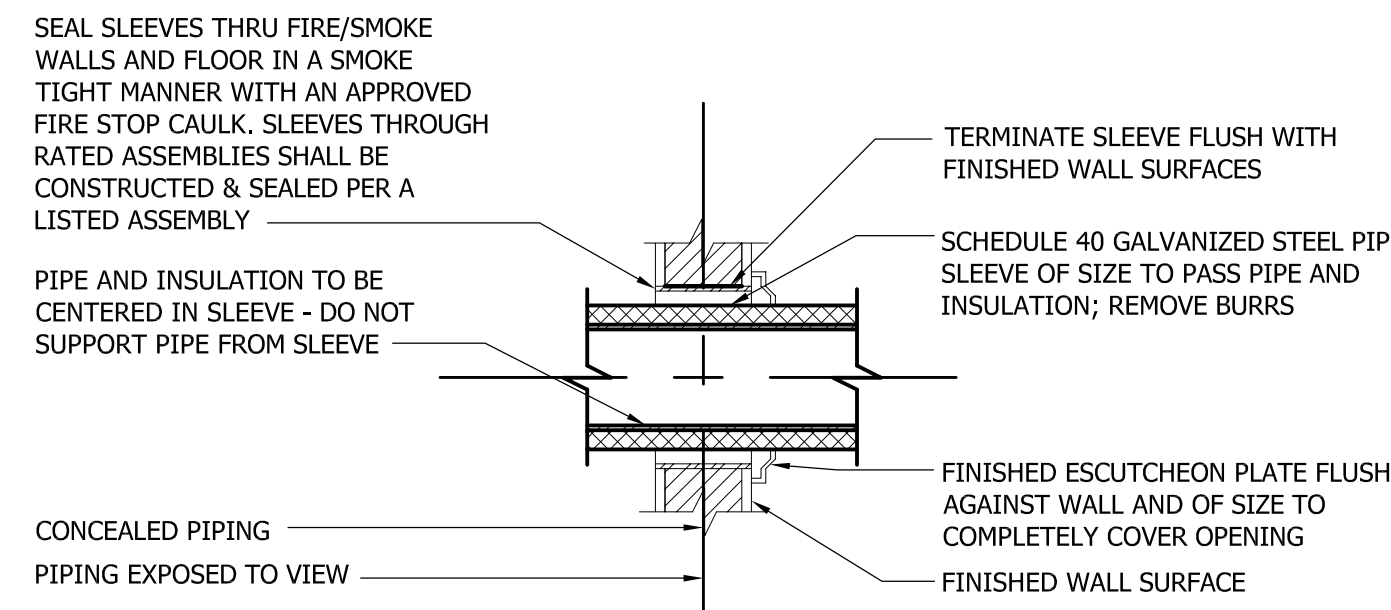
P101
 Sheet Name
 PUMP HOUSE
 FLOOR PLAN



- NOTES:
1. INSTALL THRUST BLOCKS AT ALL FITTINGS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.
 2. ADJUST PROFILES TO PROVIDE 42" MIN. DEPTH BELOW GRADE FOR INSTALLATION OF UNDERGROUND PIPES.
 3. INSTALL GALVANIZED PIPE SLEEVES AND LINK SEALS AT ALL WALL/BUILDING PENETRATIONS.

1 TYPICAL UNDERGROUND PIPING DETAIL

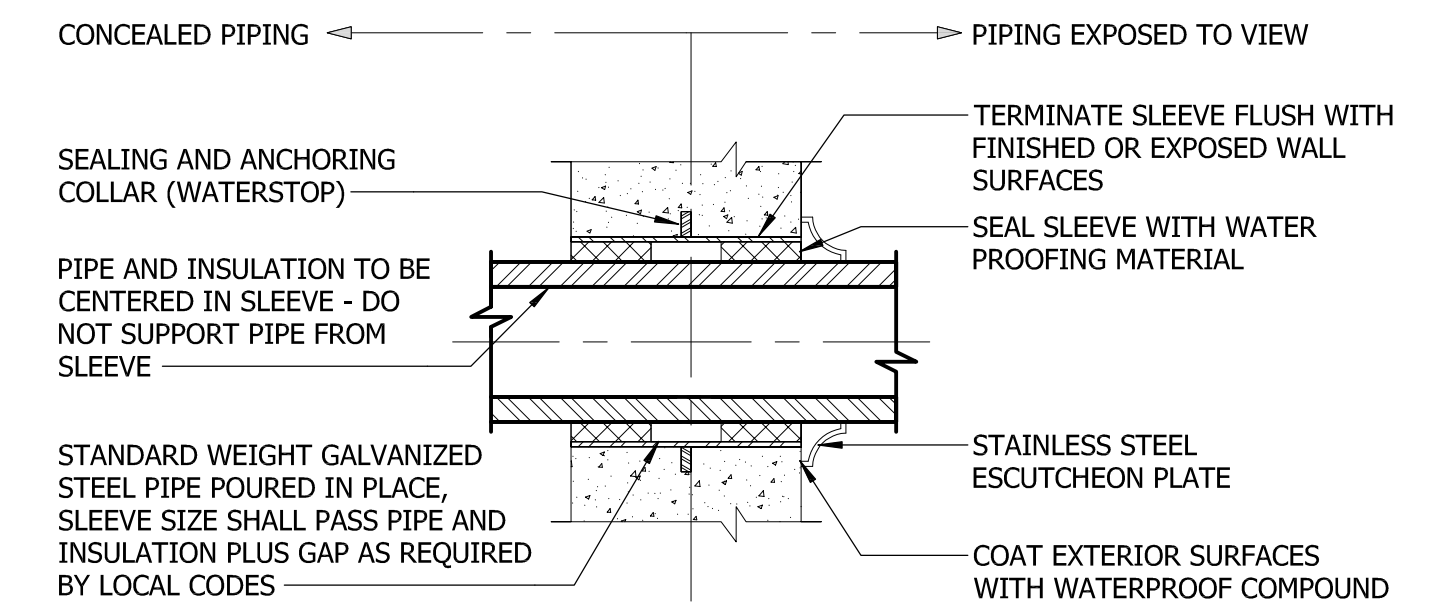
SCALE: NONE



NOTE:
FOR INTERIOR FRAME PARTITIONS-PIPE SLEEVES MAY BE FABRICATED FROM GALVANIZED SHEET METAL; ROUND TUBE CLOSED WITH SNAPLOCK JOINT, WELDED SPIRAL SEAMS, OR WELDED LONGITUDINAL JOINT. FABRICATE FROM THE FOLLOWING GAUGES: 3" AND SMALLER, 20 GAUGE; 4" TO 6", 16 GAUGE; OVER 6", 14 GAUGE.

2 TYPICAL PIPE SLEEVE THRU INTERIOR WALL DETAIL

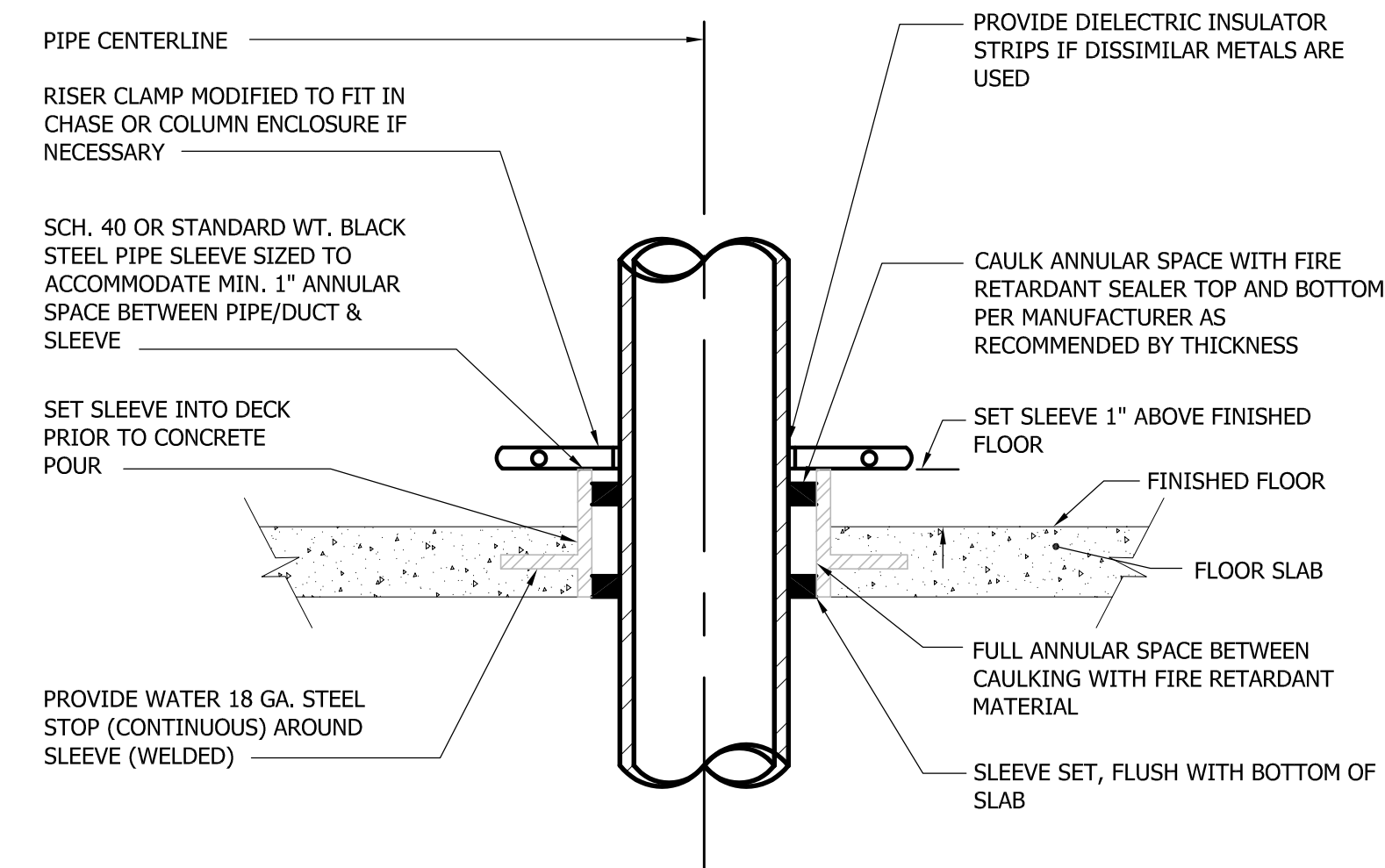
SCALE: NONE



NOTE: IF PIPING IS EXPOSED ON EACH SIDE OF WALL, PROVIDE STAINLESS-STEEL ESCUTCHEON PLATE ON EACH SIDE

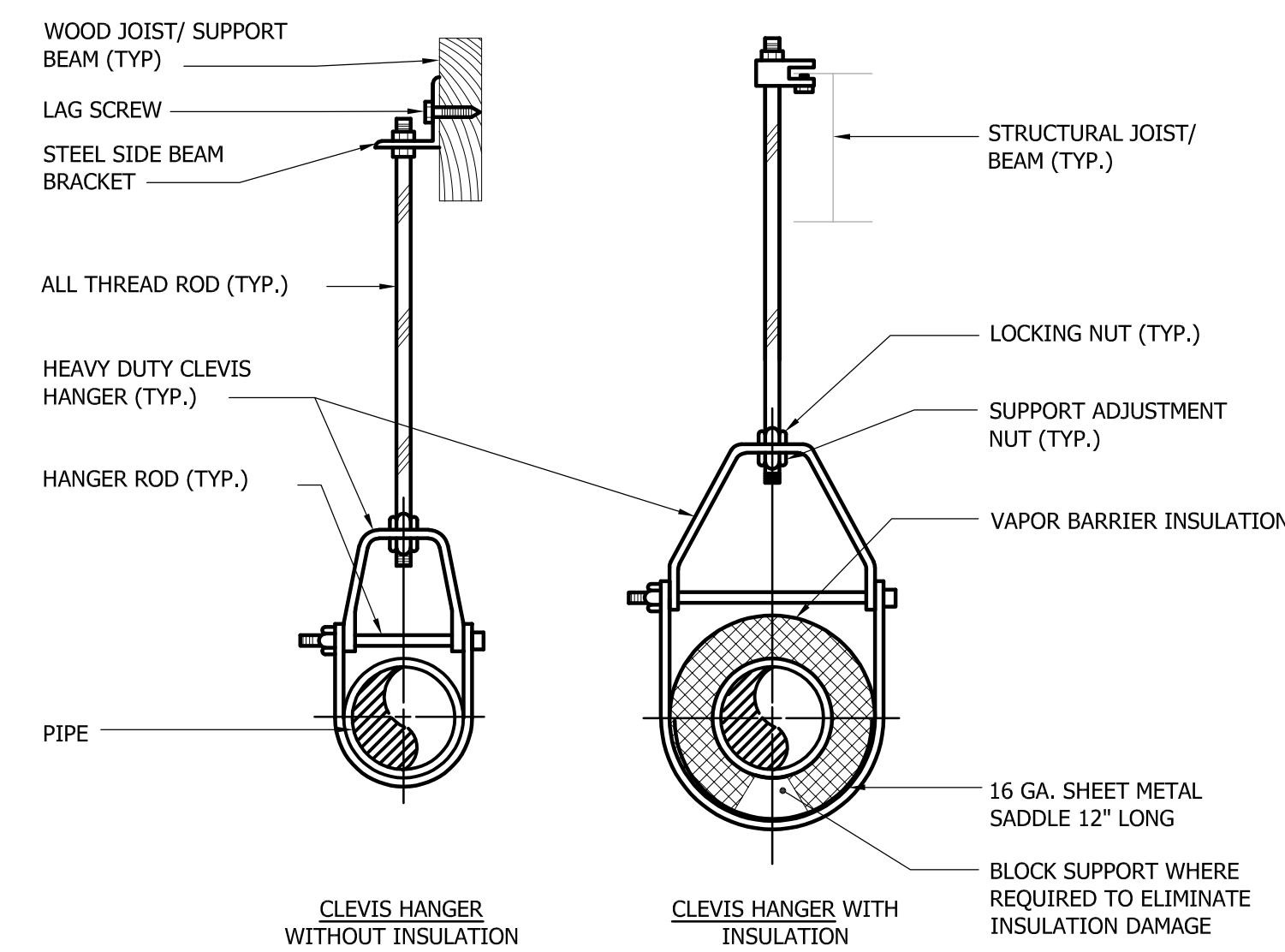
3 TYPICAL PIPE SLEEVE THRU EXTERIOR WALL ABOVE GRADE DETAIL

SCALE: NONE



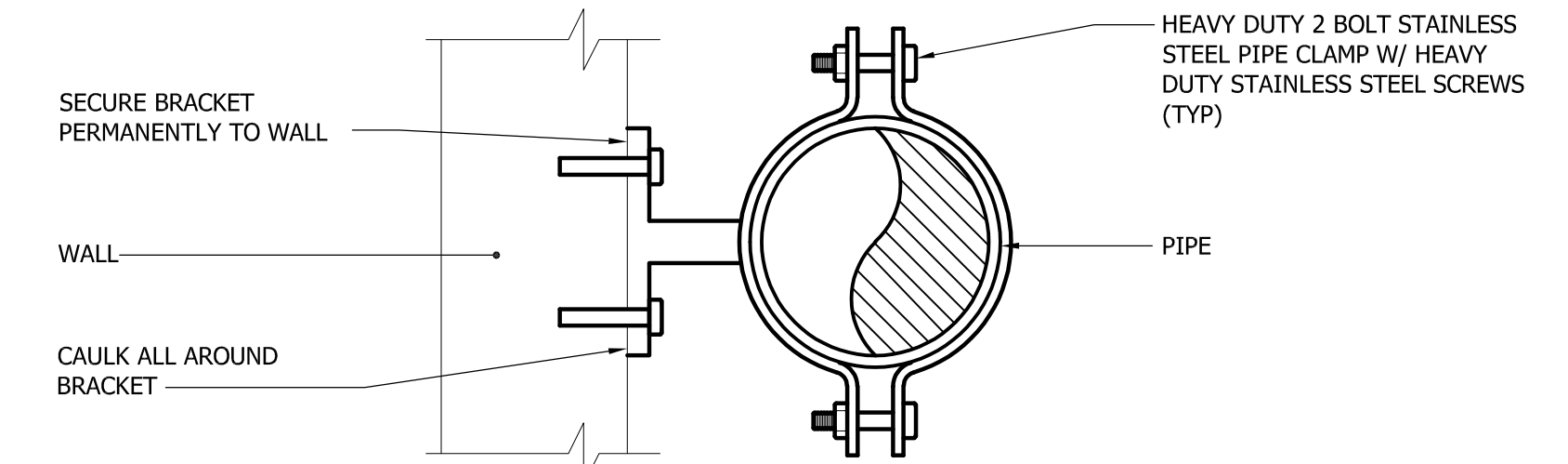
4 TYPICAL PIPE SLEEVE THRU FLOOR DETAIL

SCALE: NONE



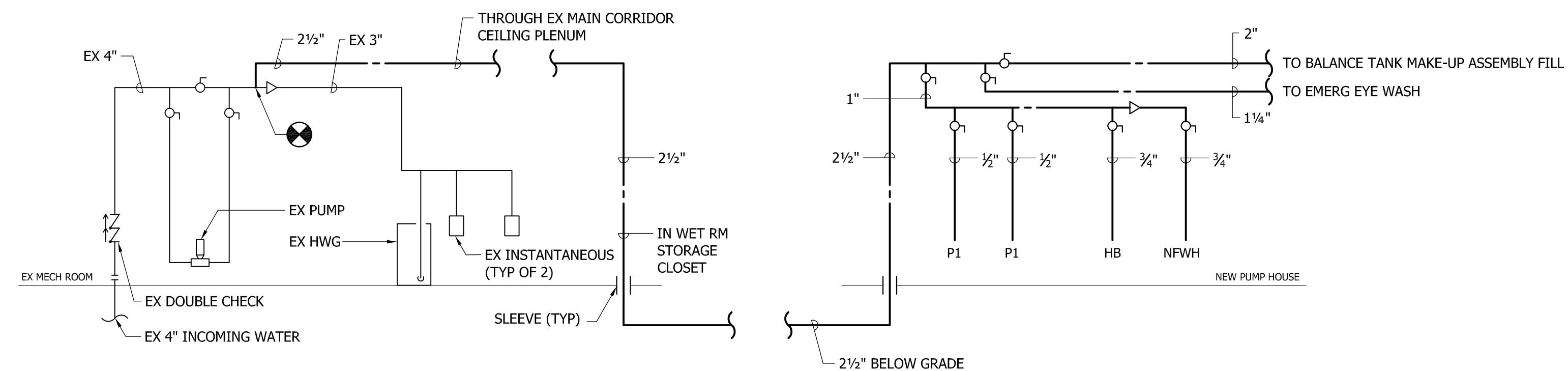
5 TYPICAL PIPE SUPPORT HANGER DETAIL

SCALE: NONE



6 TYPICAL VERTICAL PIPE SUPPORT DETAIL

SCALE: NONE



NOTE: REFER TO DRAWING P101 FOR ADDITIONAL INFORMATION.

8 DOMESTIC COLD WATER RISER DIAGRAM

SCALE: NONE

7 NOT USED

SCALE: NONE

PROFESSIONAL CERTIFICATION		REVISION				APPROVED				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS		
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. 35222 EXPIRATION DATE: 01-05-2026		NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE: AS INDICATED	PLUMBING	
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS 10830 PHILADELPHIA ROAD WHITE HARBOR, MARYLAND 21162 P: 410-240-4400		30%	SCHEMATIC DESIGN		06/22/2023					DRAWN BY: TMF	NORTH ARUNDEL AQUATIC CENTER SPLASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061	
DGN BY: _____		DD	PROGRESS SUBMISSION		08/21/2023				CHECKED BY: MPN	P201		
DWN BY: _____		90%	CD		12/15/2023				SHEET NO.:			
CHKD BY: _____			BUILDING PERMIT		02/09/2024				PROJECT NO. F563100	Sheet Name PLUMBING DETAILS & RISER DIAGRAMS		
			100% CONSTRUCTION DOCUMENTS		07/01/2024				PROPOSAL NO.: F563101			
						ASSISTANT CHIEF ENGINEER						

FIRE PROTECTION ABBREVIATIONS	
ABBREV	DESCRIPTION
AD	ACCESS DOOR
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BFP	BACKFLOW PREVENTOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
CL	CENTERLINE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CW	COLD WATER
CX	CONNECT TO EXISTING
D	DAMPER/DEEP/DIAMETER/DIFFUSER/DRAIN/DROP
DN	DOWN
DWG	DRAWING
DWGS	DRAWINGS
E	EAST/ELECTRICAL
EA	EACH/EXHAUST AIR
EL	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATION/ELEVATOR
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EX	EXISTING
F	FAHRENHEIT/FAN/FIRE/FIRE LINE/FREEZESTAT
FACP	FIRE ALARM CONTROL PANEL
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FM	FLOW METER/FACTORY MUTUAL GLOBAL
FPM	FEET PER MINUTE
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
H	HEIGHT/HIGH/HUMIDITY SENSOR
HD	HEAD
HOA	HAND-OFF-AUTOMATIC SWITCH
HP	HIGH PRESSURE/HORSEPOWER
HZ	HERTZ
IN	INCH/INCHES
INV	INVERT
KW	KILOWATT
L	LENGTH
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN/NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
P	PIPE/PLUMBING FIXTURE TYPE/PRESSURE
PD	PRESSURE DROP/PUMP DISCHARGE
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	PRESSURE-POUNDS PER SQUARE INCH
PSIG	PRESSURE-POUNDS PER SQUARE INCH, GAGE
PVC	POLYVINYL CHLORIDE
R	RADIUS/REFRIGERANT/REGISTER/RISE/RISER
REQD	REQUIRED
RM	ROOM
RBPB	REDUCED PRESSURE BACKFLOW PREVENTOR
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
RX	REMOVE EXISTING
SD	SINGLE DUCT/SMOKE DAMPER/SMOKE DETECTOR
SF	SQUARE FEET/SQUARE FOOT
SP	SPRINKLER PIPING/STATIC PRESSURE SENSOR
SQ	SQUARE
STL	STEEL
TYP	TYPICAL
V	VACUUM/VALVE/VENT/VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
WC	WATER CLOSET/WATER COLUMN/WHEELCHAIR ACCESSIBLE
WPD	WATER PRESSURE DROP
WT	WEIGHT

GENERAL FIRE PROTECTION LEGEND	
SYMBOL	DEFINITION
∅	DIAMETER (OR ELECTRICAL PHASE)
⊙	CONNECT TO EXISTING
⊘	DEMOLITION ENDS HERE
②	DRAWING NOTE DESIGNATION
	DETAIL NUMBER DRAWING DETAIL APPEARS ON
	SECTION NUMBER DRAWING SECTION APPEAR ON

PIPING LEGEND	
SYMBOL	DEFINITION
	COLD WATER
	FIRE LINE
	SPRINKLER PIPING
	PIPE-TURN DOWN
	PIPE-TURN UP
	PIPE DROP INTO
	PIPE TAP INTO BOTTOM
	2-LINE PIPE DOWN
	2-LINE PIPE UP
	OUTSIDE STEM & YOKE VALVE
	NON-RISING STEM & YOKE
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE SWITCH
	FIRE DEPT HOSE CONNECTION
	FLOOR CONTROL VALVE ASSEMBLY
	"Y" STRAINER

- | GENERAL NOTES | |
|---------------|--|
| 1. | ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE, COUNTY AND LOCAL CODES, REGULATIONS AND ORDINANCES. MATERIAL, EQUIPMENT, INSTALLATION, AND PROCEDURES SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE LATEST CURRENT EDITION OF THE REFERENCED DOCUMENTATION. <ul style="list-style-type: none"> A. REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION. B. NFPA-NATIONAL FIRE PROTECTION ASSOCIATION. C. ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS. D. ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS. E. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION & AIR CONDITIONING ENGINEERS, INC. LATEST EDITION OF STANDARD 90.1. F. INTERNATIONAL BUILDING CODE - 2018. G. INTERNATIONAL ENERGY CONSERVATION CODE - 2018. H. INTERNATIONAL EXISTING BUILDING CODE - 2018. I. INTERNATIONAL FIRE CODE - 2018. J. INTERNATIONAL GREEN CONSTRUCTION CODE - 2018. K. INTERNATIONAL MECHANICAL CODE - 2018. L. INTERNATIONAL PLUMBING CODE - 2018. |
| 2. | CONTRACTORS SHALL BE RESPONSIBLE TO VERIFY AND FAMILIARIZE THEMSELVES WITH ACTUAL FIELD CONDITIONS ASSOCIATED WITH WORK UNDER THIS CONTRACT PRIOR TO SUBMITTING THEIR BID. |
| 3. | THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. |
| 4. | ELEVATIONS NOTED ARE TO CENTER LINES OF PIPES FOR ALL PRESSURE LINES AND TO INVERT FOR ALL GRAVITY FLOW LINES. |
| 5. | ALL SIZES INDICATED ARE MINIMUM REQUIREMENTS, FINAL SIZES SHALL BE CALCULATED BY THE SPRINKLER CONTRACTOR. |
| 6. | ALL FIRE PROTECTION VALVES SHALL BE SUPERVISED. |
| 7. | COORDINATE ROUTING OF SPRINKLER PIPING THROUGH ELECTRICAL ROOMS WITH EQUIPMENT LOCATIONS TO AVOID INSTALLING PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT. |
| 8. | COORDINATE ALL FIRE PROTECTION WORK WITH MECHANICAL WORK, PLUMBING, AND ELECTRICAL WORK ETC., SHOWN ON OTHER DRAWINGS. |
| 9. | MAINTAIN MINIMUM 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL AND ELECTRICAL ROOMS. |
| 10. | CERTAIN ITEMS SUCH AS RISES AND DROPS IN PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THOSE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS. |
| 11. | EQUIPMENT CONNECTION SIZES MAY DIFFER FROM INDICATED PIPE SIZES. PROVIDE APPROPRIATE TRANSITIONS WHERE REQUIRED. |
| 12. | IT IS THE INTENT THAT ALL WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT MATERIAL OR WORK SPECIFICALLY NOT INDICATED ON THE DRAWINGS, BUT NECESSARY TO COMPLETE THE WORK, SHALL BE PROVIDED. |
| 13. | EXPOSED PIPING SHALL BE FINISHED AND PAINTED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. |
| 14. | PROVIDE A MINIMUM OF 36-INCHES OF CLEARANCE TO ALL EQUIPMENT AT THE ELECTRICAL COMPONENT LOCATIONS. |
| 15. | CONTRACTOR IS PROHIBITED FROM ATTACHING TO THE ROOF DECK AND LOWER CHORD OF JOISTS AS A SUPPORT SYSTEM FOR DEVICES AND BUILDING SYSTEMS. |
| 16. | ALL PIPE PENETRATIONS IN EXPOSED AREAS SHALL HAVE ESCUTCHEON PLATES. |
| 17. | PROVIDE ALL NECESSARY COMPONENTS FOR U.L. LISTED THROUGH PENETRATION SYSTEM AT RATED FLOORS, CEILING AND WALL PENETRATIONS IN ORDER TO MAINTAIN THE REQUIRED ASSEMBLY RATING. REFER TO ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS AND CONSTRUCTION. |

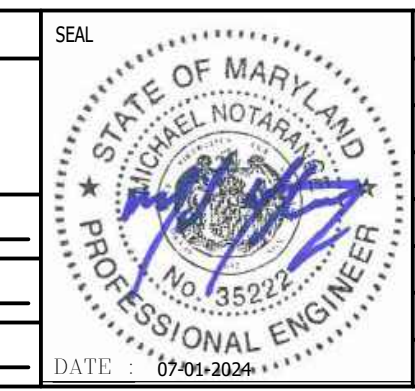
PROFESSIONAL CERTIFICATION

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. 35222 EXPIRATION DATE: 01-05-2026

ARCHITECT: DAVID WOODWARD, AIA
PRINCIPAL ARCHITECT
MANN'S WOODWARD STUDIOS
10830 PHELADAPHA ROAD
WHITE HARBOR, MARYLAND 21162
P: 410-341-4400

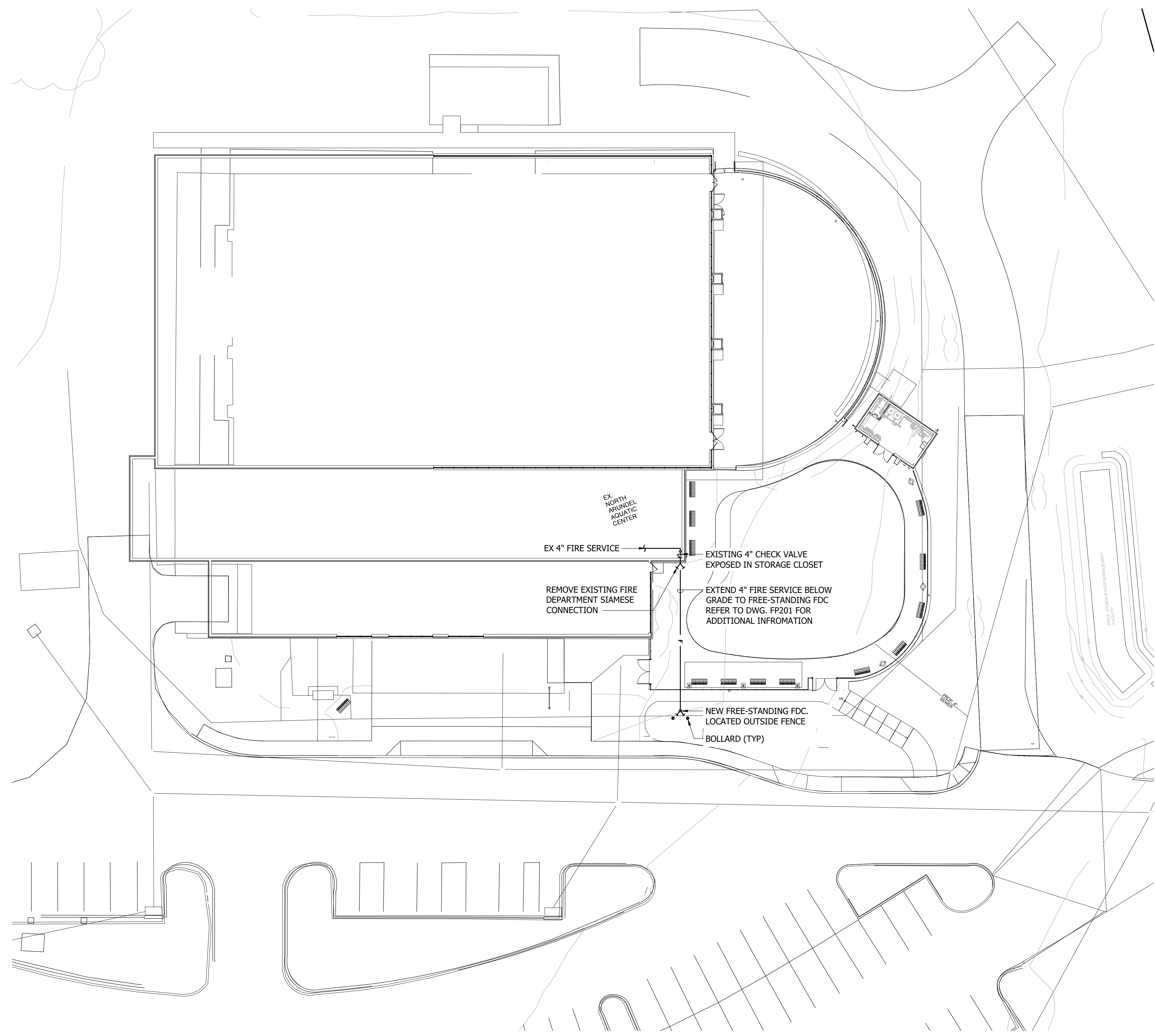
DGN BY: _____
DWN BY: _____
CHKD BY: _____



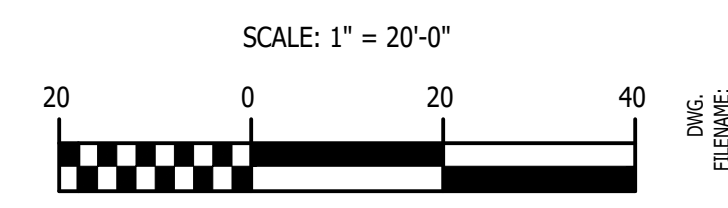
REVISION			
NO.	DESCRIPTION	BY	DATE
30%	SCHEMATIC DESIGN		06/22/2023
DD	PROGRESS SUBMISSION		08/21/2023
90%	CD		12/15/2023
	BUILDING PERMIT		02/09/2024
	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
_____ CHIEF ENGINEER	_____ DATE	_____ PROJECT MANAGER	_____ DATE
_____ APPROVED	_____ DATE	_____ APPROVED	_____ DATE
_____ ASSISTANT CHIEF ENGINEER	_____ DATE	_____ CHIEF, RIGHT OF WAY SERVICES	_____ DATE

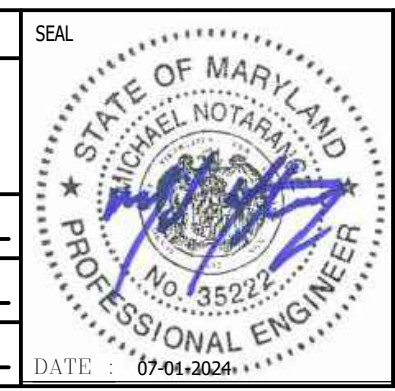
FIRE PROTECTION	
NORTH ARUNDEL AQUATIC CENTER SPLASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061	FP001
SCALE: AS INDICATED	DRAWN BY: TMF
CHECKED BY: MPN	SHEET NO.:
PROJECT NO. F563100	PROPOSAL NO.: F563101
Sheet Name FP LEGEND & GENERAL NOTES	



FIRE PROTECTION SITE PLAN
SCALE: 1" = 20'-0"



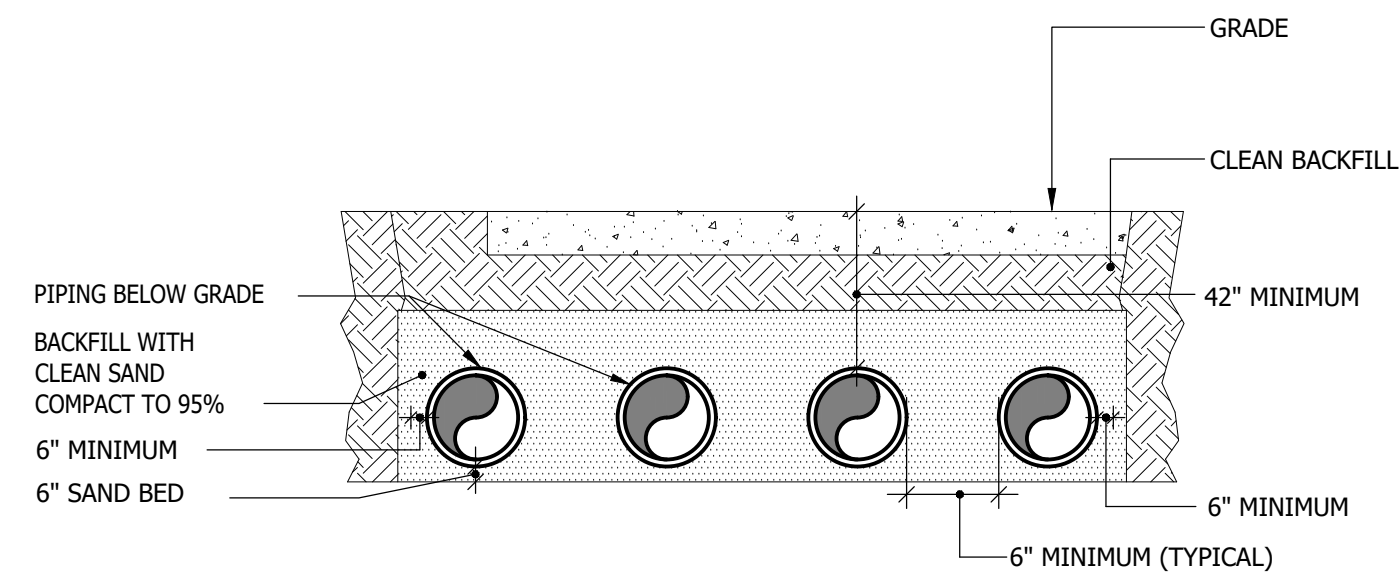
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 35222 EXPIRATION DATE: 01-05-2026



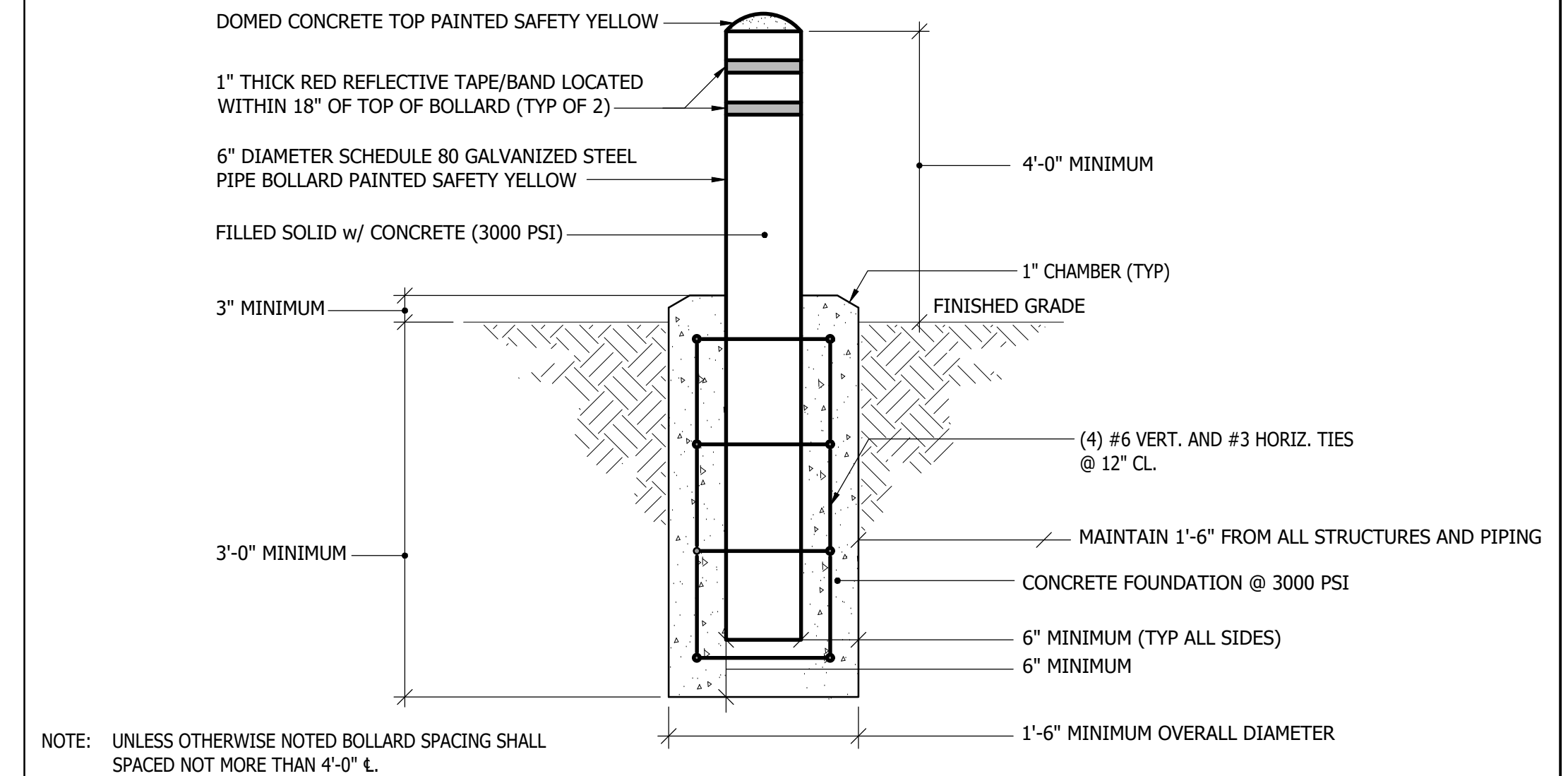
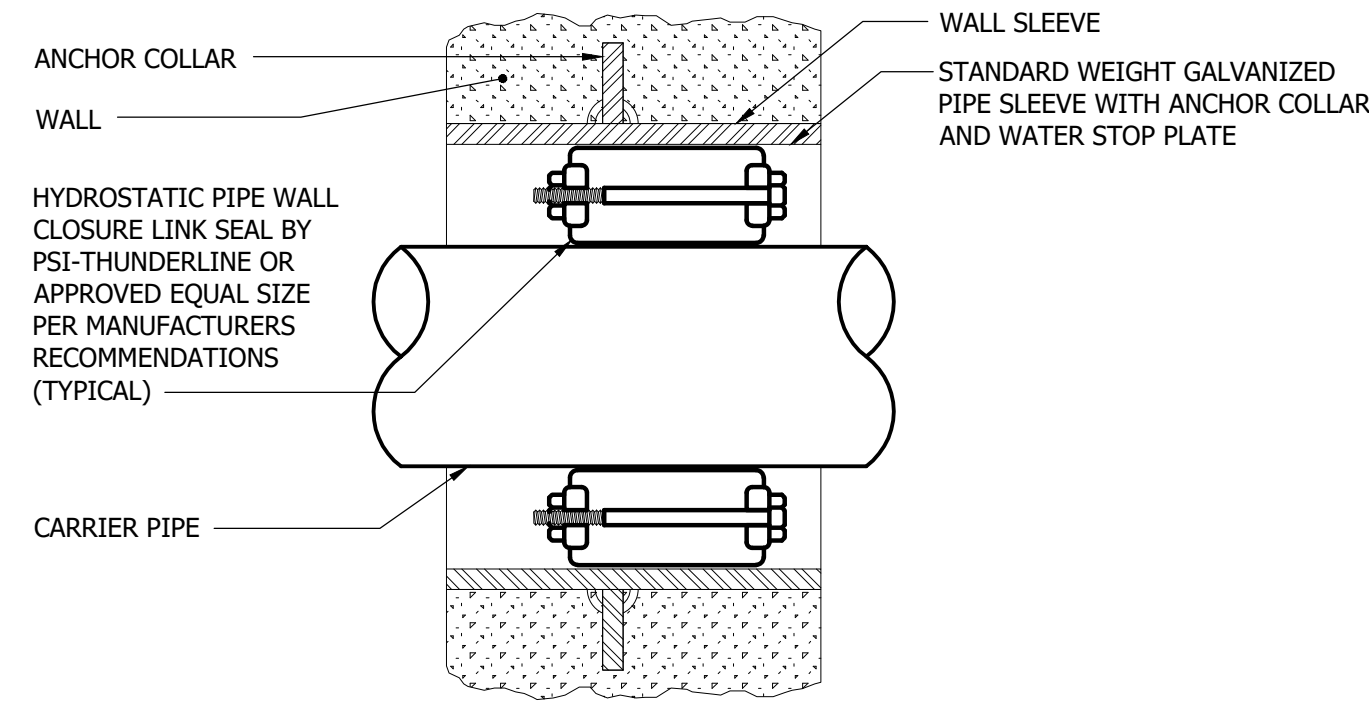
REVISION			
NO.	DESCRIPTION	BY	DATE
1	30% SCHEMATIC DESIGN		06/22/2023
2	DD PROGRESS SUBMISSION		08/21/2023
3	90% CD		12/15/2023
4	BUILDING PERMIT		02/09/2024
5	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED		APPROVED	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

FIRE PROTECTION	
SCALE: AS INDICATED	NORTH ARUNDEL AQUATIC CENTER SPLASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061
DRAWN BY: TMF	
CHECKED BY: MPN	
SHEET NO.:	
PROJECT NO. F563100	
PROPOSAL NO.: F563101	FP002 Sheet Name FP SITE PLAN



- NOTES:
1. INSTALL THRUST BLOCKS AT ALL FITTINGS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.
 2. ADJUST PROFILES TO PROVIDE 42" MIN. DEPTH BELOW GRADE FOR INSTALLATION OF UNDERGROUND PIPES.
 3. INSTALL GALVANIZED PIPE SLEEVES AND LINK SEALS AT ALL WALL/BUILDING PENETRATIONS.



1 TYPICAL UNDERGROUND PIPING DETAIL

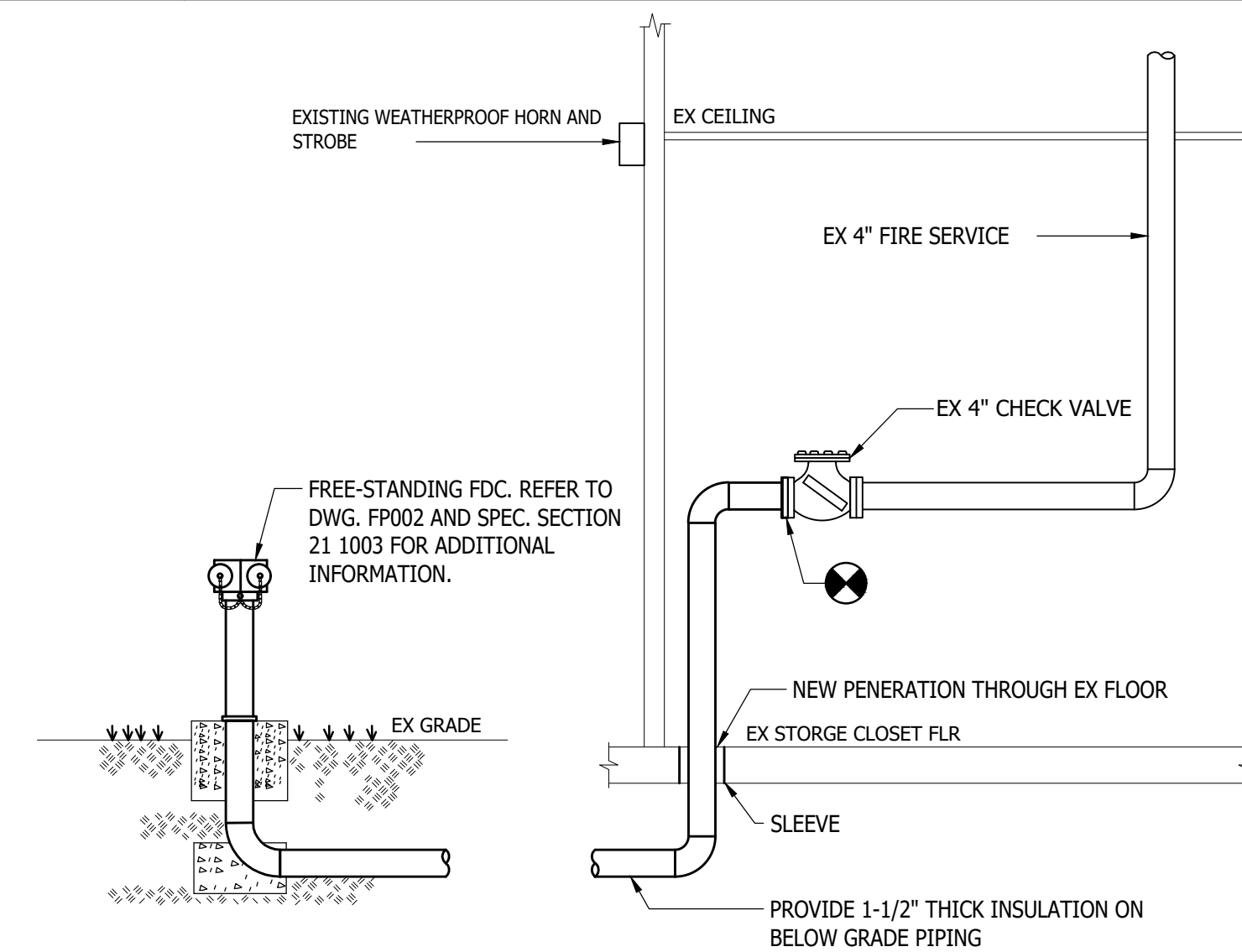
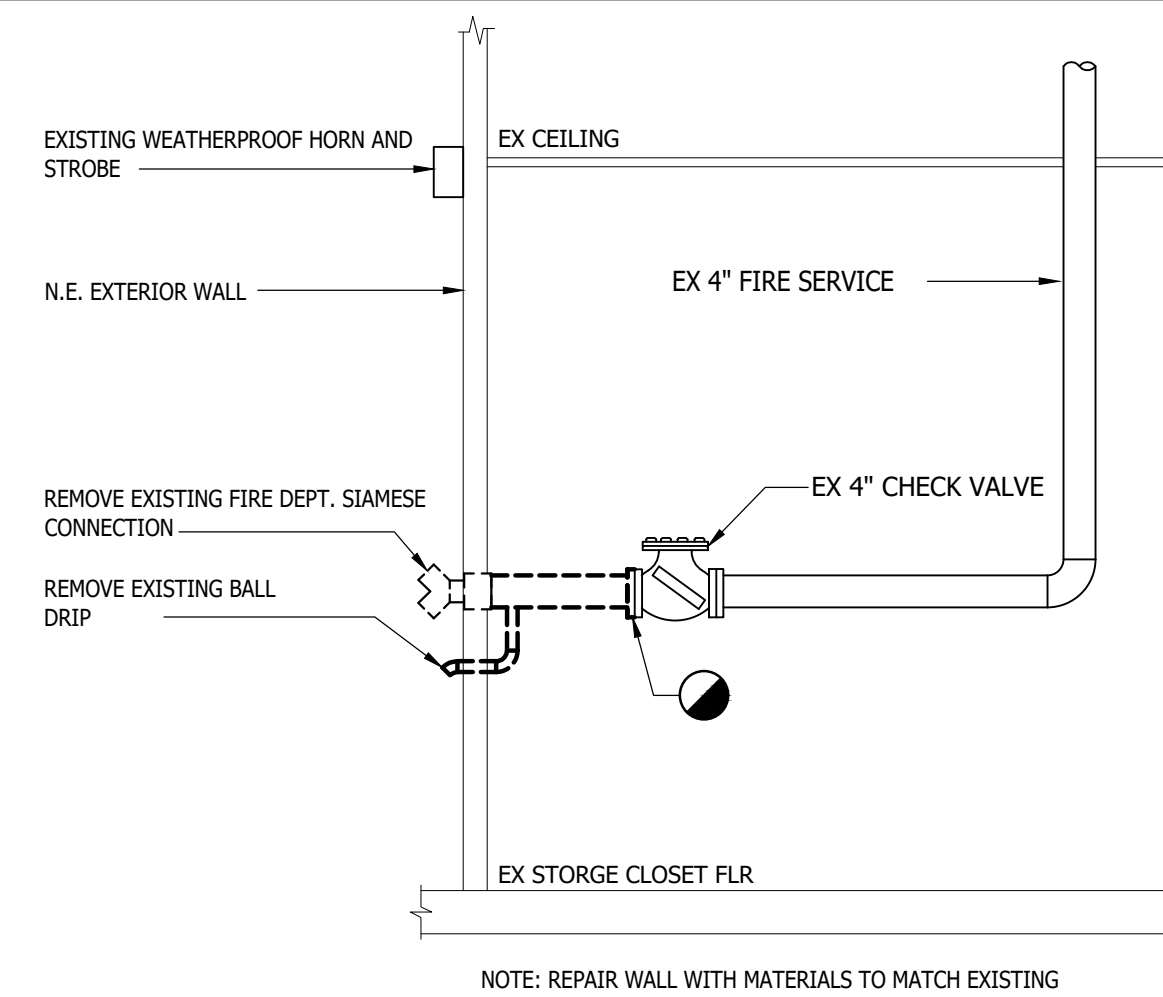
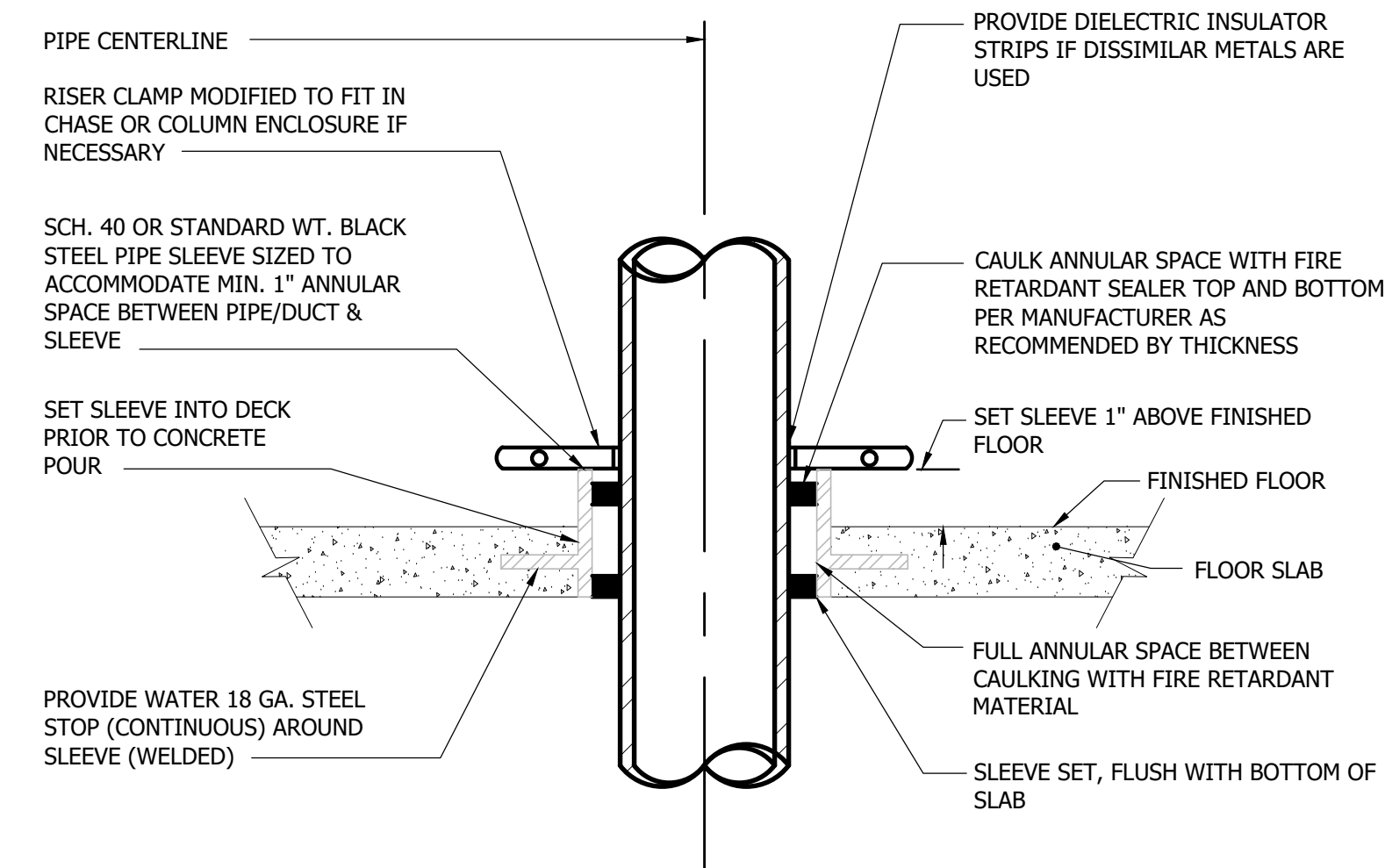
SCALE: NONE

2 TYPICAL PIPE SLEEVE THRU EXTERIOR WALL BELOW GRADE DETAIL

SCALE: NONE

3 TYPICAL BOLLARD DETAIL

SCALE: NONE

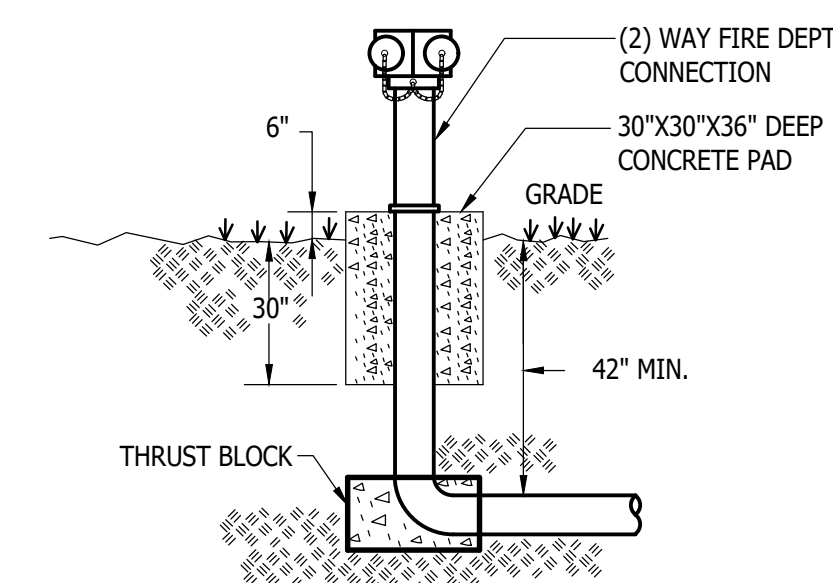


4 TYPICAL PIPE SLEEVE THRU FLOOR DETAIL

SCALE: NONE

5 FIRE DEPARTMENT CONNECTION DEMOLITION & NEW WORK DETAIL

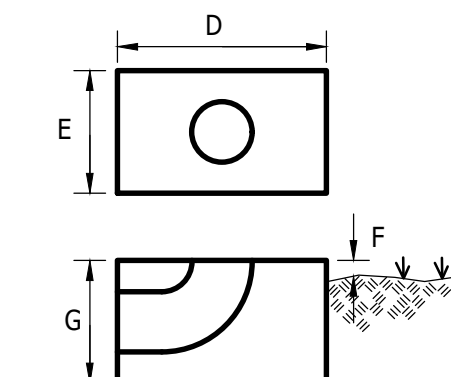
SCALE: NONE



NOTE: PROVIDE AUTOMATIC BALL DRIP AND FRENCH DRAIN TO FIRE DEPARTMENT CONNECTION FOR DRAINAGE OF PIPE.

BEND TYPE	PIPE DIA. INCH	THRUST BLOCK DIMENSIONS			
		D	E	F	G
1/4\"/>					

1. PROVIDE INCOMING WATER SERVICE AND ALL BURIED FIRE PROTECTION PIPING WITH A THRUST BLOCK PROTECTION.
2. ALL PIPING AND APPURTENANCES SHALL CONFORM TO N.F.P.A.



6 NOT USED

SCALE: NONE

7 FREE-STANDING FIRE DEPARTMENT CONNECTION DETAIL

SCALE: NONE

8 TYPICAL THRUST BLOCK DETAIL

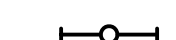



SCALE: NONE

<p>PROFESSIONAL CERTIFICATION</p> <p>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.</p> <p>LICENSE NO. 35222 EXPIRATION DATE: 01-05-2026</p> <p>ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS 18875 PHELADELPHIA ROAD WHITE HARBOR, MARYLAND 21162 P: 410-341-4600</p> <p>DGN BY: _____ DWN BY: _____ CHKD BY: _____</p>		<p>SEAL</p>		<p>REVISION</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>30%</td> <td>SCHEMATIC DESIGN</td> <td></td> <td>06/22/2023</td> </tr> <tr> <td>DD</td> <td>PROGRESS SUBMISSION</td> <td></td> <td>08/21/2023</td> </tr> <tr> <td>90%</td> <td>CD</td> <td></td> <td>12/15/2023</td> </tr> <tr> <td></td> <td>BUILDING PERMIT</td> <td></td> <td>02/09/2024</td> </tr> <tr> <td></td> <td>100% CONSTRUCTION DOCUMENTS</td> <td></td> <td>07/01/2024</td> </tr> </tbody> </table>				NO.	DESCRIPTION	BY	DATE	30%	SCHEMATIC DESIGN		06/22/2023	DD	PROGRESS SUBMISSION		08/21/2023	90%	CD		12/15/2023		BUILDING PERMIT		02/09/2024		100% CONSTRUCTION DOCUMENTS		07/01/2024	<p>APPROVED _____ DATE _____</p> <p>CHIEF ENGINEER _____ PROJECT MANAGER _____</p> <p>APPROVED _____ DATE _____</p> <p>ASSISTANT CHIEF ENGINEER _____ CHIEF, RIGHT OF WAY SERVICES _____</p>				<p>ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>SCALE: AS INDICATED</p> <p>DRAWN BY: TMF</p> <p>CHECKED BY: MPN</p> <p>SHEET NO.: _____</p> <p>PROJECT NO. F563100</p> <p>PROPOSAL NO.: F563101</p>				<p>FIRE PROTECTION</p> <p>NORTH ARUNDEL AQUATIC CENTER SPASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061</p>		<p>FP201</p> <p>Sheet Name FP DETAILS</p>	
NO.	DESCRIPTION	BY	DATE																																								
30%	SCHEMATIC DESIGN		06/22/2023																																								
DD	PROGRESS SUBMISSION		08/21/2023																																								
90%	CD		12/15/2023																																								
	BUILDING PERMIT		02/09/2024																																								
	100% CONSTRUCTION DOCUMENTS		07/01/2024																																								

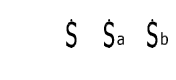

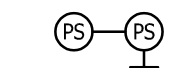
ELECTRICAL LEGEND

(MOUNTING HEIGHTS ARE TO CENTERLINE OF WALL MOUNTED DEVICES AND TO THE BOTTOM OF LIGHTING FIXTURES UNLESS OTHERWISE NOTED.)

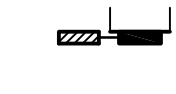






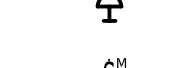

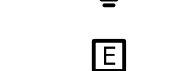
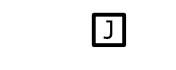
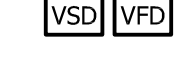

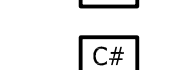

LIGHTING

-  LIGHTING FIXTURE - LINEAR, STRIP LIGHT, WALL MOUNTED; TYPE AS NOTED.
-  EXIT SIGN WITH EMERGENCY LAMP HEADS - CEILING, WALL MOUNTED, WITH INTEGRAL EMERGENCY BATTERY.
-  POLE MOUNTED SITE LIGHTING FIXTURE; TYPE AS NOTED.
-  BUILDING MOUNTED LIGHT FIXTURE; TYPE AS NOTED.






SWITCHES

-  LINE VOLTAGE TOGGLE SWITCH; SINGLE POLE, 3-WAY, 4-WAY; SUBSCRIPT INDICATES FIXTURES/OUTLETS CONTROLLED; MOUNT AT 4'-0" AFF TO TOP.
-  PHOTOELECTRIC SWITCH (OUTDOOR) - MOUNT 12'-0" AFG
-  PHOTOELECTRIC SWITCH (INDOOR); CEILING, WALL MOUNTED

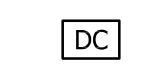
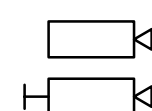
POWER

-  PANELBOARD - SURFACE, RECESSED MOUNTED, M.H. 6'-6" AFF TO TOP OF PANEL
-  ENCLOSED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE UON. MOUNT 5'-6" AFF TO TOP UON. SIZE AS NOTED.
-  SAFETY SWITCH, FUSED OR NON-FUSED, SIZE AS INDICATED ON DRAWINGS. ENCLOSURE SHALL BE NEMA 1 UNLESS OTHERWISE NOTED, MOUNT 5'-6" AFF TO TOP UNLESS OTHERWISE NOTED
-  STARTER, COMBINATION STARTER FVNR TYPE NEMA SIZE 1 UNLESS OTHERWISE NOTED, WITH NON-FUSED DISCONNECT SWITCH, H.O.A. SELECTOR SWITCH, RED & GREEN INDICATING LIGHTS AND CONTROL POWER TRANSFORMER IN NEMA 1 ENCLOSURE UON, M.H. 5'-6" AFF TO TOP.
-  MOTOR
-  JUNCTION BOX - CEILING, WALL MOUNTED
-  EMERGENCY POWER OFF BUTTON - MOUNT 42" AFF UON
-  MANUAL MOTOR STARTER WITH H.O.A. SELECTOR SWITCH IN NEMA 1 ENCLOSURE. MOUNT 4'-0" AFF TO TOP UNLESS OTHERWISE NOTED.
-  TO GROUND
-  UTILITY SPLICE BOX
-  EXTERIOR JUNCTION BOX (IN-GRADE)
-  VARIABLE SPEED/FREQUENCY DRIVE FURNISHED UNDER MECH DIVISION, INSTALLED UNDER ELECTRICAL DIVISION.
-  SURGE PROTECTION DEVICE
-  TIME CLOCK
-  CONTACTOR; # INDICATES QUANTITY OF POLES

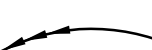



OUTLETS

-  DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; MOUNT 1'-6" AFF UON; NUMBER INDICATES CIRCUIT DESIGNATION.
-  DOUBLE DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; MOUNT 1'-6" AFF UON. NUMBER INDICATES CIRCUIT DESIGNATION.
-  DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; GROUND FAULT INTERRUPTING, WEATHERPROOF LOCKING COVER; MOUNT 1'-6" AFG UON. NUMBER INDICATES CIRCUIT DESIGNATION.
-  DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V, NEMA 5-20R; GROUND FAULT INTERRUPTING; MOUNT 1'-6" AFF UON. NUMBER INDICATES CIRCUIT DESIGNATION.
-  SLASH INDICATES DEVICE TO BE MOUNTED AT 42" AFF OR 6" ABOVE COUNTER UON. NUMBER INDICATES CIRCUIT DESIGNATION.

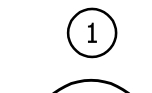

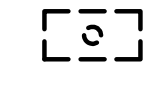
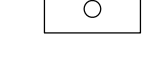

SECURITY

-  DOOR CONTACT BACKBOX. PROVIDE CONCEALED 3/4" CONDUIT WITH PULLSTRINGS UP TO ACCESSIBLE CEILING SPACE.
-  CCTV CAMERA BACKBOX, PROVIDE CONCEALED 3/4" CONDUIT WITH PULLSTRINGS UP TO ACCESSIBLE CEILING SPACE. MOUNT 12'-0" AFG TO CENTERLINE.

CONDUIT

-  HOMERUN TO PANELBOARD; NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES
-  BRANCH CIRCUIT CONDUIT AND WIRING CONCEALED IN CEILING OR WALL SPACE, OR SURFACE MOUNTED WHERE NO CEILING OR WALL SPACE EXISTS; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES
-  BRANCH CIRCUIT CONDUIT AND WIRING IN SLAB, UNDER FLOOR OR UNDERGROUND; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES
-  CONDUIT SLEEVE. REFER TO FLOOR PLANS FOR SIZES AND QUANTITIES.

MISCELLANEOUS

-  DENOTES REFERENCE TO DRAWING NOTE
-  DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER
-  ITEMS SHOWN DASHED/HEAVY ARE TO BE REMOVED
-  ITEMS SHOWN SOLID/LIGHT ARE EXISTING TO REMAIN
-  ITEMS SHOWN SOLID/HEAVY ARE NEW

ABBREVIATIONS

- A AMPERE, AMPERES
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- AHJ AUTHORITY HAVING JURISDICTION
- AIC AMPERE INTERRUPTING CAPACITY
- AL ALUMINUM
- AWG AMERICAN WIRE GAUGE
- BDA BIDIRECTIONAL AMPLIFIER
- BF BALLAST FACTOR
- CATV CABLE TELEVISION
- CCTV CLOSED CIRCUIT TELEVISION
- CONDUIT CONDUIT
- CB CIRCUIT BREAKER
- CFUO CEILING FAN COIL UNIT
- CLG CEILING, CEILING MOUNTED
- CTR COUNTER TOP RECEPTACLE
- DIA DIAMETER
- DWG DRAWING
- E EMERGENCY
- EC ELECTRICAL CONTRACTOR
- ECB ENCLOSED CIRCUIT BREAKER
- EF EXHAUST FAN
- EMCS ENERGY MANAGEMENT CONTROL SYSTEM
- EPO EMERGENCY POWER OFF
- ETR EXISTING TO REMAIN
- EWC ELECTRIC WATER COOLER
- EX EXISTING
- EX EXISTING
- FA FIRE ALARM
- FA FIRE ALARM ANNUNCIATOR PANEL
- FAFP FIRE ALARM CONTROL PANEL
- FACP FULL LOAD AMPERES
- FLA FIBER OPTIC
- FO FUSED SAFETY SWITCH
- FSS GROUND FAULT INTERRUPTING
- GFI GROUND
- GW GROUND WIRE
- GV HIGH
- H HOA HAND-OFF-AUTOMATIC
- HP HORSEPOWER
- IDF INTERMEDIATE DISTRIBUTION FRAME
- IDF INTERMEDIATE METAL CONDUIT
- IMC KELVIN
- K THOUSAND CIRCULAR MILS
- KCMIL KILOVOLT-AMPERES
- KVA KILOWATT
- KW LOW
- L LOCKED ROTOR AMPERES
- LRA MINIMUM CIRCUIT AMPERES
- MCA MAIN CIRCUIT BREAKER
- MCB MAIN DISTRIBUTION FRAME
- MDF MAIN LUGS ONLY
- MLO MAXIMUM OVERCURRENT PROTECTION
- MOCF MAIN POINT OF PRESENCE
- MPOP MOUNTED
- MTD MOUNTING HEIGHT/MANHOLE
- MH NATIONAL ELECTRICAL CODE
- NEC NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NEMA NONFUSED SAFETY SWITCH
- NF/SS NOT IN CONTRACT
- NIC NUMBER
- NO ON CENTERS
- OC POLE, POLES
- P PA SYSTEM
- PA PHASE
- φ PANEL
- PNL PAN TILT ZOOM
- PTZ POLYVINYL CHLORIDE
- PVC RETURN AIR FAN
- RAF RIGID GALVANIZED STEEL
- RGS RELOCATED
- RL REMOVE RE-INSTALL
- RR REMOVE EXISTING
- RX SURGE PROTECTION DEVICE
- SPD TAP SECTION
- TAP TOE KICK
- TK TAMPER RESISTANT
- TR TYPICAL
- TYP UNIT HEATER
- UH VOLT, VOLTS
- V VERTICAL FAN COIL UNIT
- VFCU VANDAL RESISTANT
- VR WEATHERPROOF
- WP WATTS, WIRE, WIRES
- W TRANSFORMER
- XFMR TELEPHONE TERMINAL BOARD
- TTB UNSHIELDED TWISTED PAIR
- UTP UNLESS OTHERWISE NOTED
- UON

GENERAL NOTES:

- THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS OF ALL OTHER TRADES ON THE PROJECT. ELECTRICAL OR SYSTEMS CONNECTIONS INDICATED ON ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, KITCHEN AND ALL OTHER DRAWINGS WHICH ARE PART OF THIS PROJECT, SHALL BE CONSIDERED A PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH SHALL NOT BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND EQUIPMENT AND DIMENSIONAL INFORMATION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF SERVICE EQUIPMENT AND WIRING.
- COORDINATE MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL PLANS, SECTIONS, ELEVATIONS AND CASEWORK DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTING OF WIRING AND CONDUITS AND SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING TO LIMIT VOLTAGE DROP TO 3%. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE WIRING PER NEC. 20 AMPERE CIRCUITS SHALL BE SIZED AS FOLLOWS:


20 AMPERE CIRCUITS				
120 VOLT		277 VOLT		MINIMUM CONDUIT SIZE
WIRING LENGTH	WIRE SIZE	WIRING LENGTH	WIRE SIZE	
0' - 60'	#12	0' - 130'	#12	3/4"
60' - 100'	#10	130' - 210'	#10	3/4"
100' - 150'	#8	210' - 340'	#8	3/4"
150' - 240'	#6	340' - 540'	#6	3/4"
OVER 240'	#4	OVER 540'	#4	1"

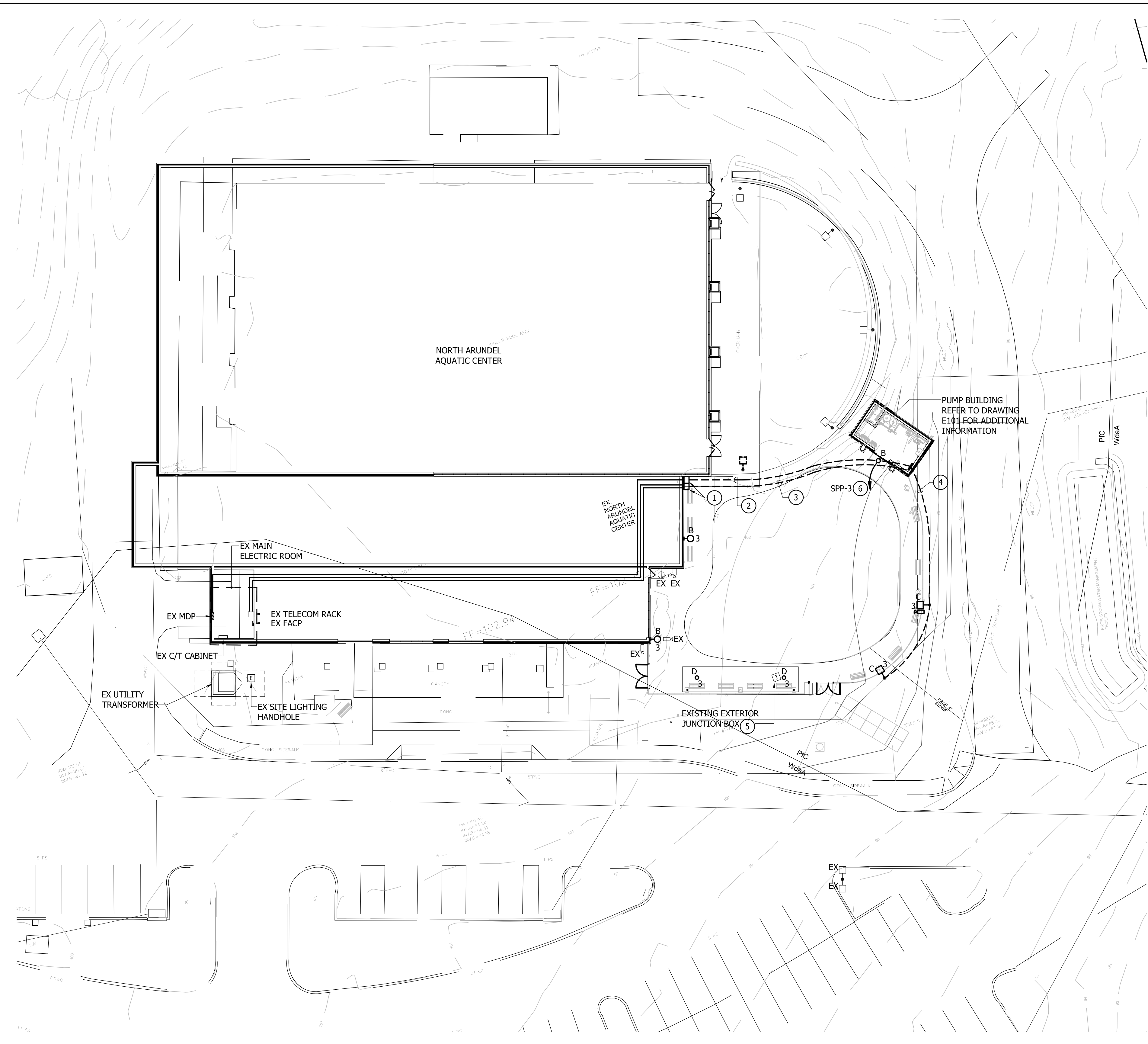
NOTES:
BRANCH CIRCUITS IN PANELBOARDS WITH 200% RATED NEUTRAL BUS, ECM MOTORS AND ALL DIMMED LIGHTING CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.

- WIRING AND CONDUIT SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT WIRING AND CONDUIT SIZES. CONTRACTOR SHALL PROVIDE SPLICE BLOCKS AND REDUCING PINS AS REQUIRED TO TERMINATE WIRING AND MAKE FINAL CONNECTIONS.
- ELECTRICAL BOXES IN FIRE RATED PARTITIONS SHALL NOT EXCEED 16 SQUARE INCHES IN AREA (IF 4"x4"), SHALL BE MADE OF STEEL, AND SHALL BE SUCH THAT THE CUMULATIVE AREA OF BOX "CUTOUPS" IN THE FIREWALL DOES NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF WALL AREA. ELECTRICAL BOXES ON OPPOSITE SIDES OF THE SAME FIREWALL SHALL BE SEPARATED BY A HORIZONTAL AND VERTICAL DISTANCE OF NOT LESS THAN 24 INCHES. THE ELECTRICAL CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS, AS NECESSARY, TO ELECTRICAL BOX LOCATIONS TO ENSURE COMPLIANCE WITH THIS REQUIREMENT SINCE BOX LOCATIONS ARE TYPICALLY NOT DIMENSIONED ON THE DRAWINGS. CONSULT ARCHITECT IF CLARIFICATION IS REQUIRED.
 - FIRE ALARM EQUIPMENT SHALL BE RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED, INCLUDING WATER INGRESS, TEMPERATURE AND HUMIDITY.
 - EXTEND HOMERUNS TO DEVICES WITH SAME CIRCUIT NUMBER DESIGNATIONS.
 - CONTRACTOR SHALL PROVIDE WIREMOLD FOR EXISTING WALLS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS.
 - COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXISTING WALLS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING MOUNTING OF DEVICES WITH WALL TYPES.

DEMOLITION NOTES:

- DEMOLITION DRAWINGS ARE DIAGRAMMATIC IN NATURE; NO ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING ELECTRICAL WORK. IN AREAS INDICATED TO BE RENOVATED, ALL EXISTING ELECTRICAL WORK SHALL BE REMOVED REMAIN UNLESS OTHERWISE NOTED. WHEN AN ITEM IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED ELECTRICAL WORK BACK TO POINT OF SOURCE. DISCONNECT AND REMOVE ELECTRICAL WORK ASSOCIATED WITH HVAC EQUIPMENT INDICATED TO BE REMOVED. REMOVAL OF EQUIPMENT SHALL BE BY OTHERS.
- WHERE WORK PASSES THROUGH THE RENOVATION AREA TO SERVE OTHER PORTIONS OF THE BUILDING, OR WORK IN THE RENOVATION AREA INDICATED TO REMAIN, IT SHALL BE SUITABLY RELOCATED AND THE SYSTEMS RESTORED TO NORMAL. COORDINATE ANY OUTAGES WITH OWNER 7 DAYS IN ADVANCE.
- WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED AGAINST DAMAGE.

PROFESSIONAL CERTIFICATION	SEAL	REVISION	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS					
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. 34699 EXPIRATION DATE: 07-16-2025		NO. DESCRIPTION BY DATE	APPROVED DATE	APPROVED DATE	SCALE: AS INDICATED	ELECTRICAL		
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS 10820 PINEBELLS ROAD WHITE HARBOR, MARYLAND 21152 P: 410-246-4460		30% SCHEMATIC DESIGN 06/22/2023	PROJECT MANAGER	DRAWN BY: TLB	CHECKED BY: KTC		NORTH ARUNDEL AQUATIC CENTER SPLASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061	
DGN BY: _____		DD PROGRESS SUBMISSION 08/21/2023	APPROVED DATE	PROJECT NO. F563100	SHEET NO.:			E001 <small>Sheet Name LEGEND, SCHEDULES & ABBREVIATIONS</small>
DWN BY: _____		90% CD 12/15/2023	CHIEF ENGINEER	PROPOSAL NO.: F563101				
CHKD BY: _____		BUILDING PERMIT 02/09/2024	APPROVED DATE					
DATE: 07-01-2024	100% CONSTRUCTION DOCUMENTS 07/01/2024	ASSISTANT CHIEF ENGINEER						



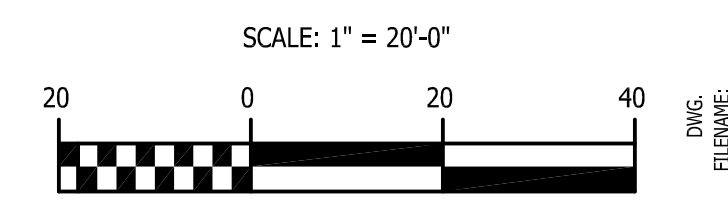
GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES IN THE AREA OF WORK ON SITE BEFORE PROCEEDING WITH SITEWORK. FOR LOCATION OF UTILITIES "MISS UTILITY", 24 HOURS A DAY, 1-800-247-7777. CALL 48 HOURS IN ADVANCE. ALL COSTS ASSOCIATED WITH FIELD VERIFICATION SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL PROVIDE ALL NECESSARY PRECAUTIONS (HAND DIGGING, ETC.) WHERE WORK IS TO BE DONE NEAR EXISTING UTILITIES.
3. PROVIDE PULLSTRINGS AND TRACER WIRE IN ALL EMPTY CONDUITS.

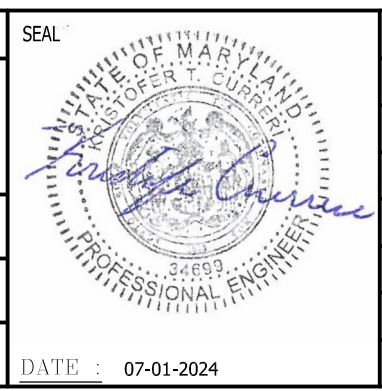
DRAWING NOTES:

- ① WEATHERPROOF EXTERIOR PULLBOX, SIZE AS REQUIRED.
- ② ELECTRICAL FEEDER. REFER TO POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- ③ (4) 1" CONDUITS FOR ROUTING OF TELECOMMUNICATIONS, FIRE ALARM & SECURITY CABLING.
- ④ PROVIDE 1" CONDUIT TO LIGHT POLE FOR CCTV CAMERA.
- ⑤ ADJUST ELEVATION OF EXISTING EXTERIOR JUNCTION BOX AND ASSOCIATED CONDUITS AS REQUIRED TO NEW ELEVATION AS INDICATED ON CIVIL DRAWINGS.
- ⑥ VIA CONTACTOR LCI.

ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"



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. 34699 EXPIRATION DATE: 07-16-2025
ARCHITECT: DAVID WOODWARD, AIA
PRINCIPAL ARCHITECT
MANN'S WOODWARD STUDIOS
10820 PHILADELPHIA ROAD
WHITE HALL, MARYLAND 21152
P: 410-240-4400



REVISION			
NO.	DESCRIPTION	BY	DATE
30%	SCHEMATIC DESIGN		06/22/2023
DD	PROGRESS SUBMISSION		08/21/2023
90%	CD		12/15/2023
	BUILDING PERMIT		02/09/2024
	100% CONSTRUCTION DOCUMENTS		07/01/2024

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

ELECTRICAL	
SCALE: AS INDICATED	
DRAWN BY: TLB	
CHECKED BY: KTC	
SHEET NO.:	
PROJECT NO. F563100	
PROPOSAL NO.: F563101	

NORTH ARUNDEL AQUATIC CENTER
SPLASH PAD EXPANSION
7888 S. CRAIN HIGHWAY
GLEN BURNIE, MD 21061

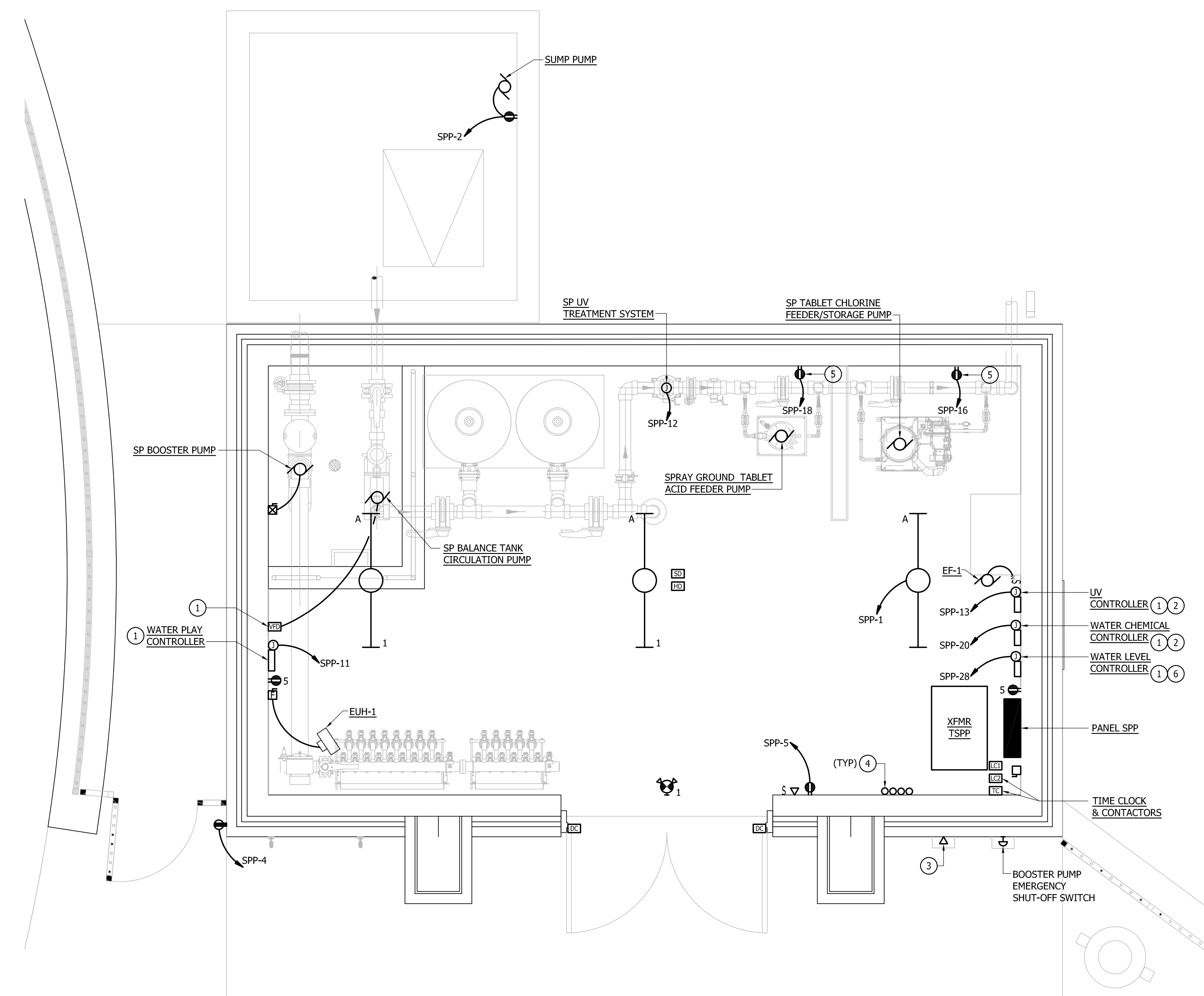
E002
Sheet Name
ELECTRICAL SITE PLAN

GENERAL NOTES:

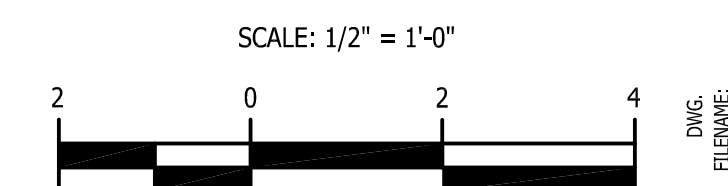
1. REFER TO POOL & MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E401 FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

1. COORDINATE EXACT LOCATION OF POOL EQUIPMENT CONTROLLER WITH POOL CONTRACTOR.
2. PROVIDE ALL CONNECTIONS BETWEEN POOL EQUIPMENT, INCLUDING BUT NOT LIMITED TO CONTROLLERS, ACID FEEDER, CHLORINE FEEDER, UV TREATMENT SYSTEM, AND PUMPS. REFER TO THE POOL MECHANICAL ROOM "MR" DRAWINGS FOR ADDITIONAL INFORMATION AND INTERCONNECT REQUIREMENTS.
3. EMERGENCY HANDSET PHONE WITH NEMA 4 WATERTIGHT ENCLOSURE.
4. TELECOMMUNICATIONS, FIRE ALARM AND SECURITY CONDUITS.
5. PROVIDE KINDORF SUPPORTS AS REQUIRED. COORDINATE MOUNTING LOCATION WITH EQUIPMENT PRIOR TO INSTALLATION.
6. REWIRE FROM 220V TO 110V PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

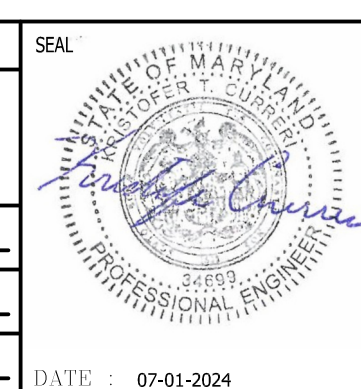


PUMP HOUSE FLOOR PLAN - POWER
SCALE: 1/2" = 1'-0"



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. 34699 EXPIRATION DATE: 07-16-2025



ARCHITECT: DAVID WOODWARD, AIA
PRINCIPAL ARCHITECT
MANN WOODWARD STUDIOS
10820 PHELAGELSA ROAD
WHITE MARSH, MARYLAND 21152
P: 410-240-4400
DGN BY: _____
DWN BY: _____
CHKD BY: _____
DATE: 07-01-2024

REVISION			
NO.	DESCRIPTION	BY	DATE
30%	SCHEMATIC DESIGN		06/22/2023
DD	PROGRESS SUBMISSION		08/21/2023
90%	CD		12/15/2023
	BUILDING PERMIT		02/09/2024
	100% CONSTRUCTION DOCUMENTS		07/01/2024

APPROVED				APPROVED			
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE

ANNE ARUNDEL COUNTY		DEPARTMENT OF PUBLIC WORKS	
SCALE: AS INDICATED			
DRAWN BY: TLB			
CHECKED BY: KTC			
SHEET NO.:			
PROJECT NO. F563100			
PROPOSAL NO. F563101			
ELECTRICAL		NORTH ARUNDEL AQUATIC CENTER SPLASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061	
E101		Sheet Name PUMP HOUSE FLOOR PLAN - POWER	

GENERAL NOTES:

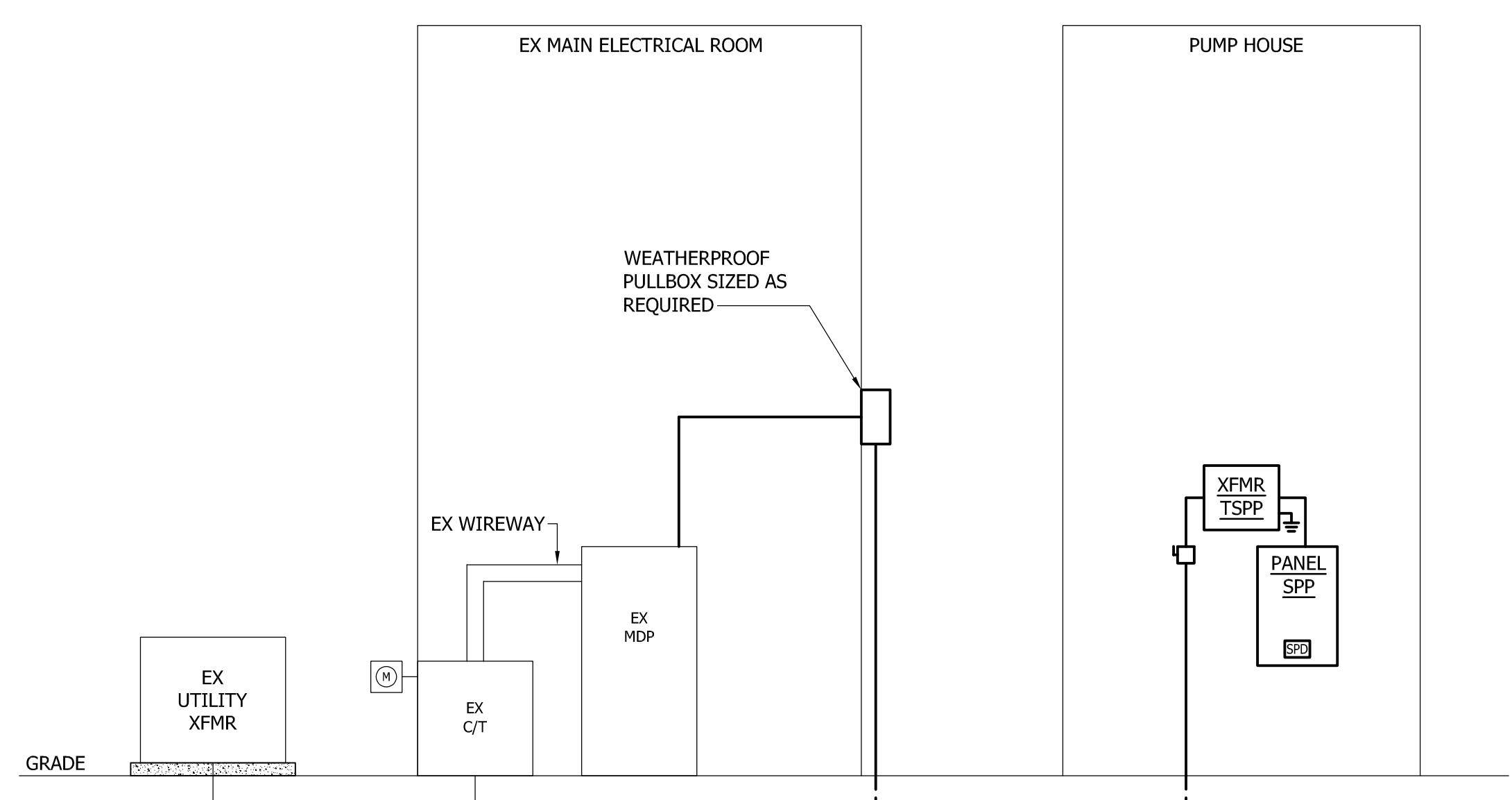
- REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL REDUCE FEEDER SIZE (IF REQUIRED) WITHIN 5'-0" OF EQUIPMENT TO ACCOMMODATE LUG SIZES.
- PROVIDE TRANSFORMER PRIMARY DISCONNECTS WHERE INDICATED, SIZED TO MATCHED (OR EXCEED) THE RATING OF THE PRIMARY CIRCUIT BREAKER INDICATED IN THE DRY TYPE TRANSFORMER SCHEDULE.

FIRE ALARM GENERAL NOTES:

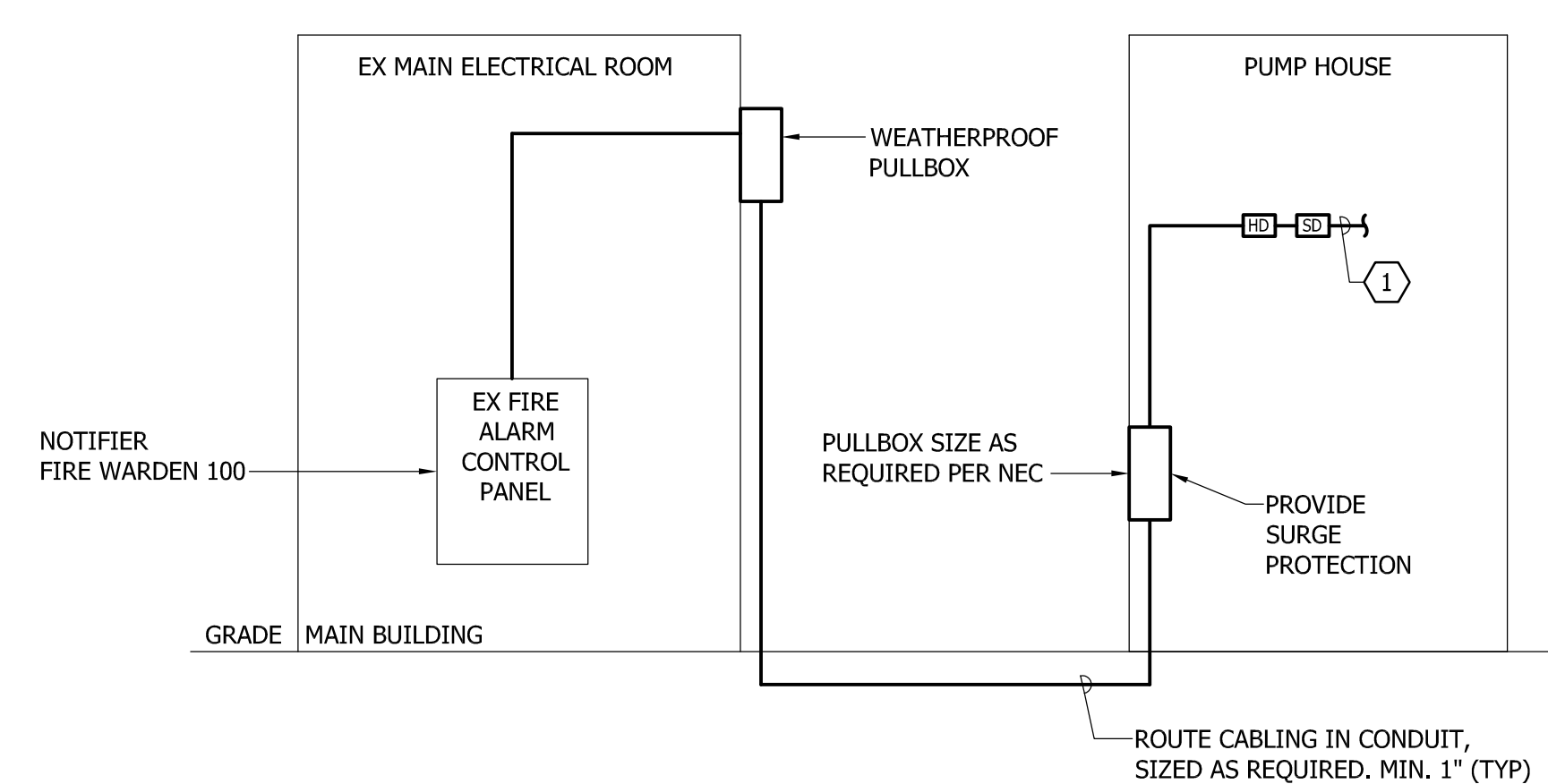
- REFER TO FLOOR PLANS FOR EXACT DEVICE COUNT AND LOCATIONS. PROVIDE WIRING AS REQUIRED BY SYSTEM MANUFACTURER IN CONDUIT.

FIRE ALARM DRAWING NOTES:

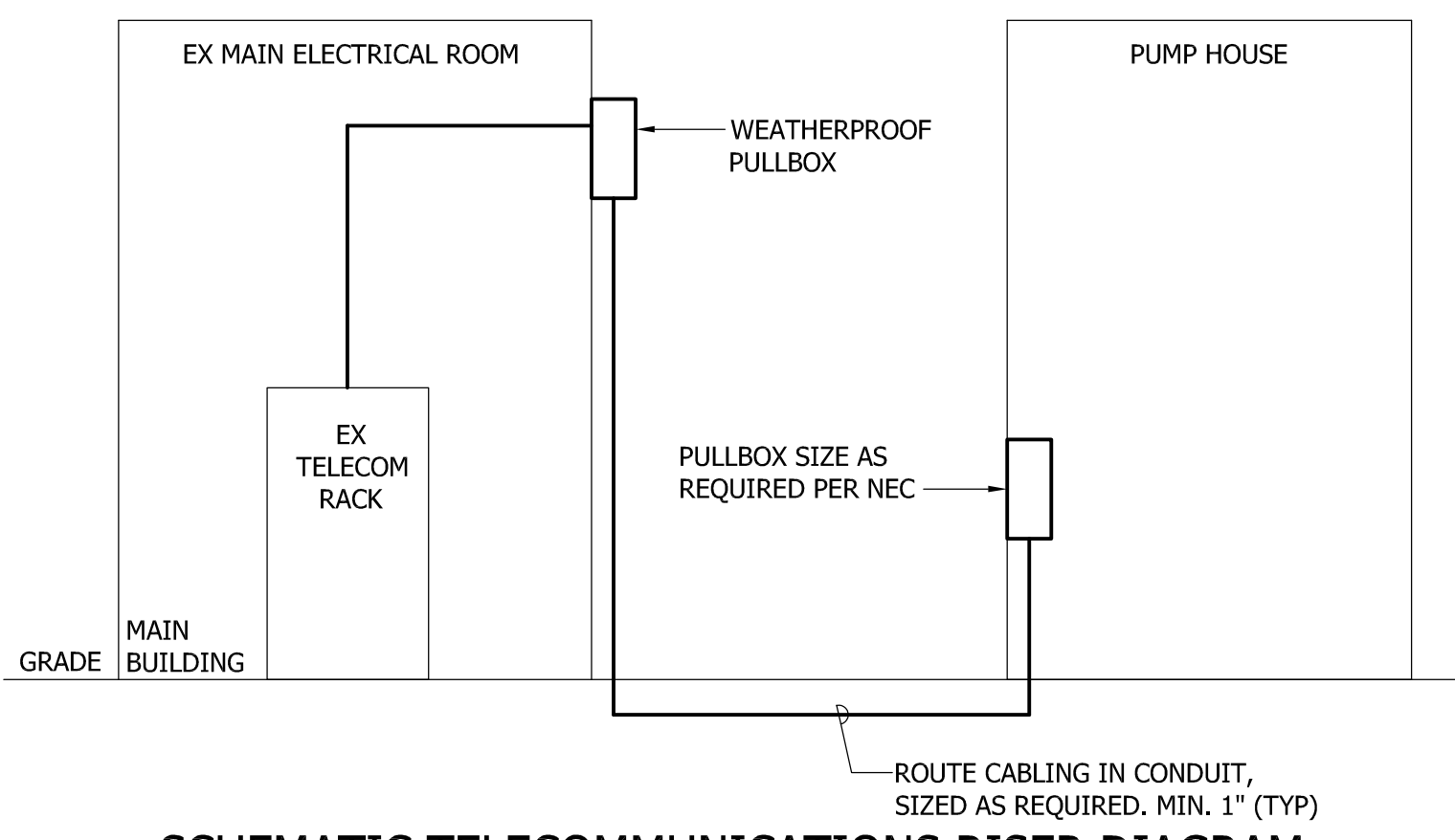
- TO OTHER ALARM INITIATING DEVICES IN THIS ZONE.



SCHEMATIC POWER RISER DIAGRAM
SCALE: 1/8" = 1'-0"

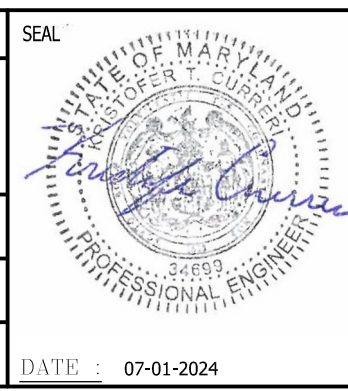


SCHEMATIC FIRE ALARM RISER DIAGRAM
NO SCALE



SCHEMATIC TELECOMMUNICATIONS RISER DIAGRAM
NO SCALE

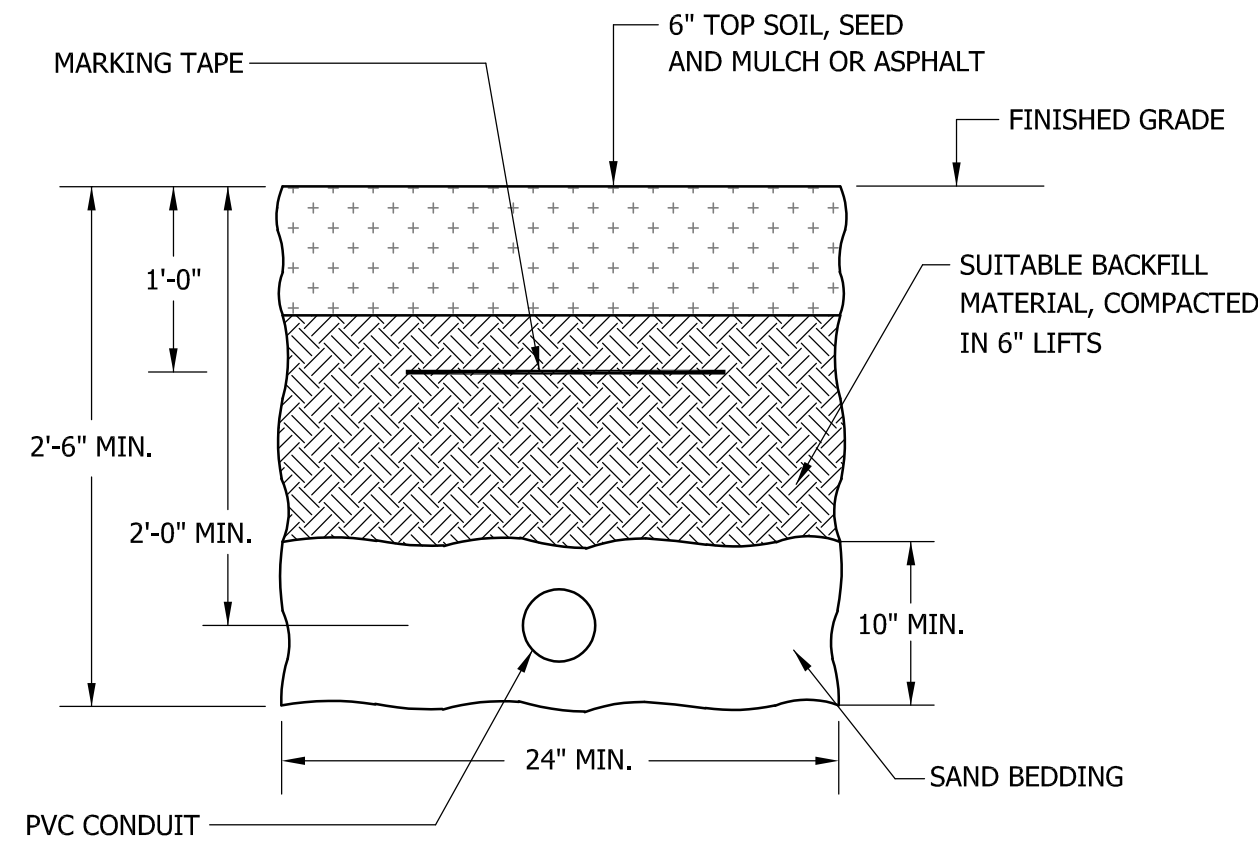
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 34699 EXPIRATION DATE: 07-16-2025
ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT
MANN'S WOODWARD STUDIOS 10820 PHILADELPHIA ROAD WHITE HARBOR, MARYLAND 21152 410-240-4400
DGN BY: _____
DWN BY: _____
CHKD BY: _____
DATE: 07-01-2024



REVISION			
NO.	DESCRIPTION	BY	DATE
30%	SCHEMATIC DESIGN		06/22/2023
DD	PROGRESS SUBMISSION		08/21/2023
90%	CD		12/15/2023
	BUILDING PERMIT		02/09/2024
	100% CONSTRUCTION DOCUMENTS		07/01/2024

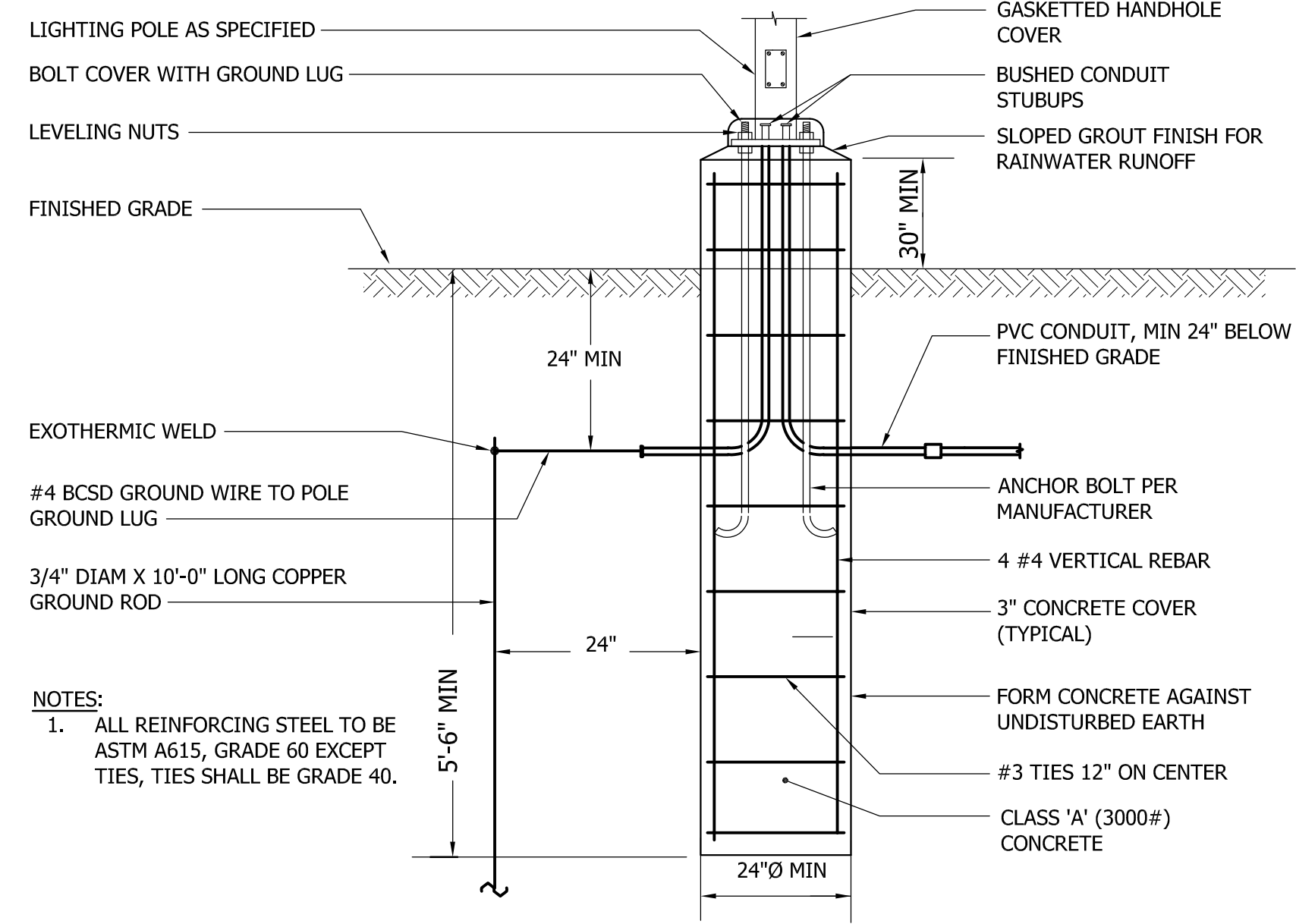
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES	

ELECTRICAL	
SCALE: AS INDICATED	NORTH ARUNDEL AQUATIC CENTER SPLASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061
DRAWN BY: TLB	
CHECKED BY: KTC	
SHEET NO.:	
PROJECT NO. F563100	E201
PROPOSAL NO.: F563101	
Sheet Name SCHEMATIC POWER RISER DIAGRAM	



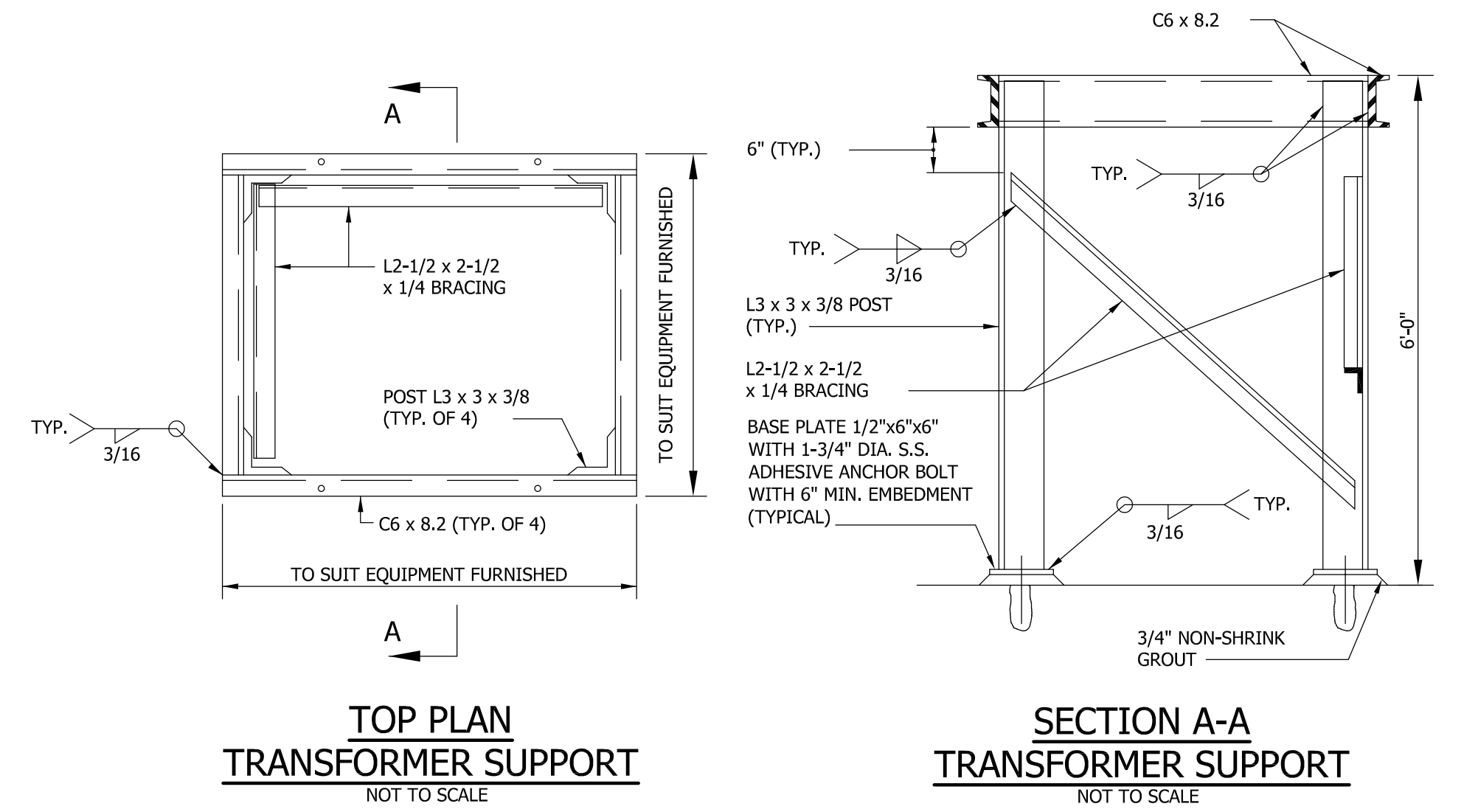
1 TYPICAL DIRECT BURIED PVC CONDUIT

SCALE: NONE



2 SITE LIGHTING AREA POLE BASE AND FOUNDATION

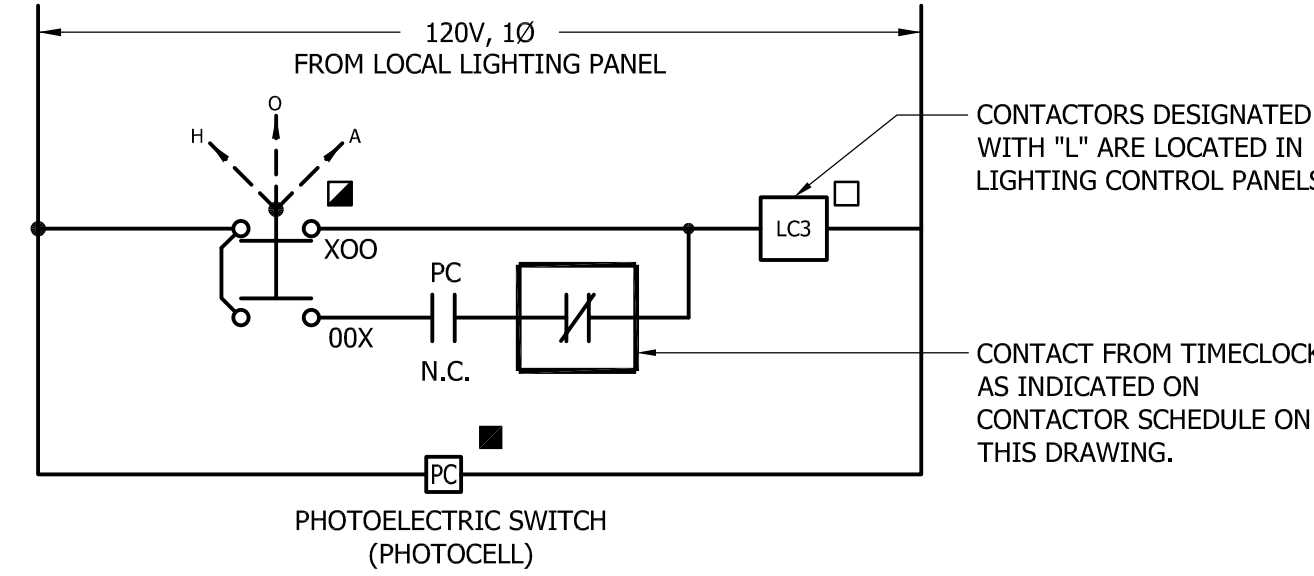
SCALE: NONE



3 WALL MOUNTED TRANSFORMER SUPPORT

SCALE: NONE

- CONTROL DIAGRAMS LEGEND:**
- MOUNT ON FRONT OF RESPECTIVE LIGHTING CONTROL PANEL TO BE LOCATED ADJACENT TO ASSOCIATED LIGHTING PANEL IN RESPECTIVE ELECTRICAL ROOM.
 - MOUNT WITHIN RESPECTIVE LIGHTING CONTROL PANEL TO BE LOCATED ADJACENT TO ASSOCIATED LIGHTING PANEL IN RESPECTIVE ELECTRICAL ROOM.
 - LOCATE PHOTOCELL UNOBSTRUCTED ON ROOF. COORDINATE EXACT LOCATION IN FIELD.

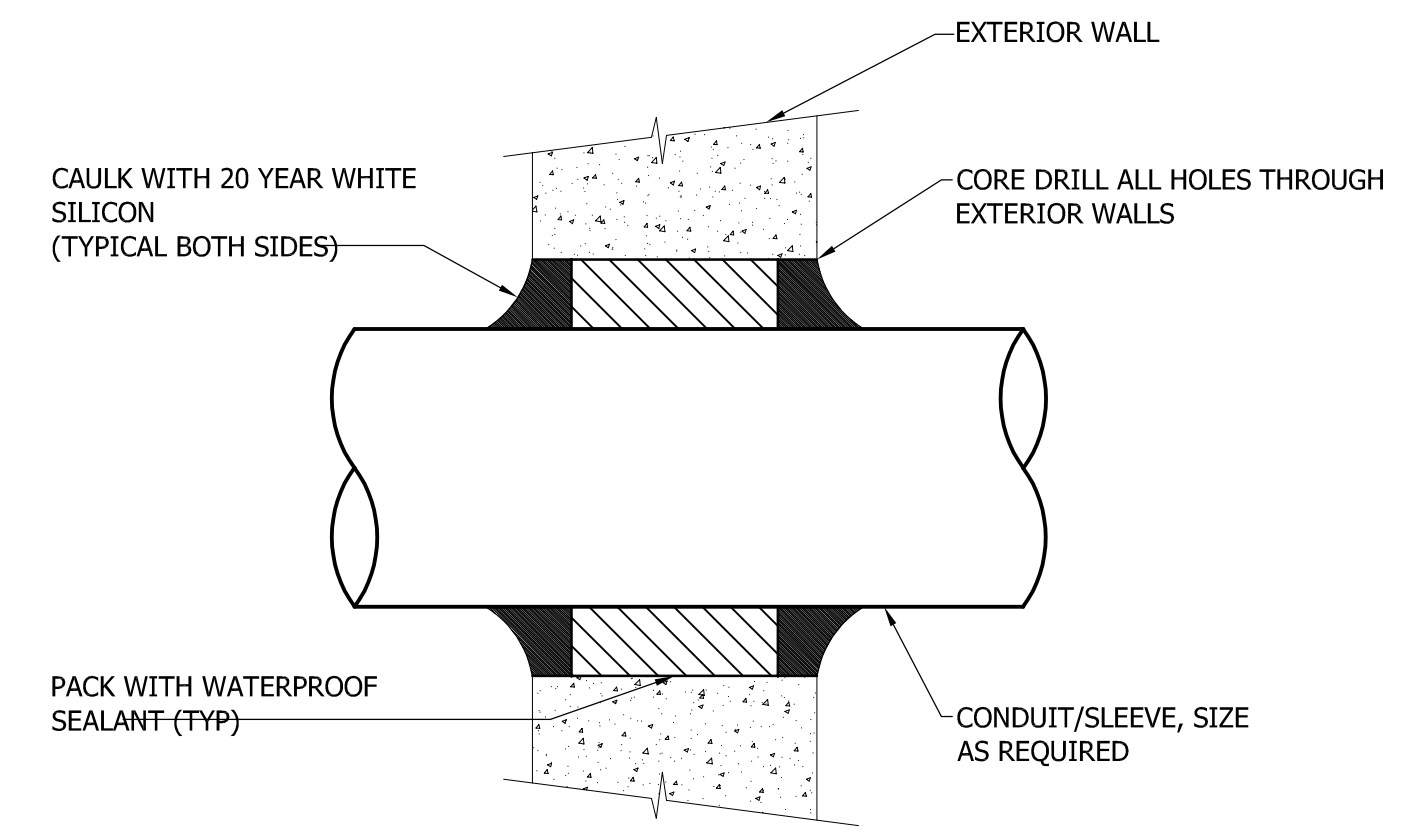


4 TYPICAL EXTERIOR LIGHTING CONTROL DIAGRAM

SCALE: NONE

5 LIGHTING CONTACTOR SCHEDULE

SCALE: NONE



6 TYPICAL CONDUIT THROUGH EXTERIOR WALL - ABOVE GRADE

SCALE: NONE

7 NOT USED

SCALE: NONE

8 NOT USED

SCALE: NONE

9 NOT USED

SCALE: NONE

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. 34699 EXPIRATION DATE: 07-16-2025 ARCHITECT: DAVID WOODWARD, AIA PRINCIPAL ARCHITECT MANN'S WOODWARD STUDIOS 10820 PHILADELPHIA ROAD WHITE HARBOR, MARYLAND 21152 (P) 410-240-4400 DGN BY: _____ DWN BY: _____ CHKD BY: _____ DATE: 07-01-2024		REVISION <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> <tr> <td>30%</td> <td>SCHEMATIC DESIGN</td> <td></td> <td>06/22/2023</td> </tr> <tr> <td>DD</td> <td>PROGRESS SUBMISSION</td> <td></td> <td>08/21/2023</td> </tr> <tr> <td>90%</td> <td>CD</td> <td></td> <td>12/15/2023</td> </tr> <tr> <td></td> <td>BUILDING PERMIT</td> <td></td> <td>02/09/2024</td> </tr> <tr> <td></td> <td>100% CONSTRUCTION DOCUMENTS</td> <td></td> <td>07/01/2024</td> </tr> </table>				NO.	DESCRIPTION	BY	DATE	30%	SCHEMATIC DESIGN		06/22/2023	DD	PROGRESS SUBMISSION		08/21/2023	90%	CD		12/15/2023		BUILDING PERMIT		02/09/2024		100% CONSTRUCTION DOCUMENTS		07/01/2024	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS <table border="1"> <tr> <td>APPROVED</td> <td>DATE</td> <td>APPROVED</td> <td>DATE</td> </tr> <tr> <td>CHIEF ENGINEER</td> <td></td> <td>PROJECT MANAGER</td> <td></td> </tr> <tr> <td>APPROVED</td> <td>DATE</td> <td>APPROVED</td> <td>DATE</td> </tr> <tr> <td>ASSISTANT CHIEF ENGINEER</td> <td></td> <td>CHIEF, RIGHT OF WAY SERVICES</td> <td></td> </tr> </table>				APPROVED	DATE	APPROVED	DATE	CHIEF ENGINEER		PROJECT MANAGER		APPROVED	DATE	APPROVED	DATE	ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES		<table border="1"> <tr> <td>SCALE: AS INDICATED</td> <td></td> </tr> <tr> <td>DRAWN BY: TLB</td> <td></td> </tr> <tr> <td>CHECKED BY: KTC</td> <td></td> </tr> <tr> <td>SHEET NO.:</td> <td></td> </tr> <tr> <td>PROJECT NO. F563100</td> <td></td> </tr> <tr> <td>PROPOSAL NO. F563101</td> <td></td> </tr> </table>				SCALE: AS INDICATED		DRAWN BY: TLB		CHECKED BY: KTC		SHEET NO.:		PROJECT NO. F563100		PROPOSAL NO. F563101	
NO.	DESCRIPTION	BY	DATE																																																														
30%	SCHEMATIC DESIGN		06/22/2023																																																														
DD	PROGRESS SUBMISSION		08/21/2023																																																														
90%	CD		12/15/2023																																																														
	BUILDING PERMIT		02/09/2024																																																														
	100% CONSTRUCTION DOCUMENTS		07/01/2024																																																														
APPROVED	DATE	APPROVED	DATE																																																														
CHIEF ENGINEER		PROJECT MANAGER																																																															
APPROVED	DATE	APPROVED	DATE																																																														
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT OF WAY SERVICES																																																															
SCALE: AS INDICATED																																																																	
DRAWN BY: TLB																																																																	
CHECKED BY: KTC																																																																	
SHEET NO.:																																																																	
PROJECT NO. F563100																																																																	
PROPOSAL NO. F563101																																																																	
PROFESSIONAL SEAL 		ELECTRICAL NORTH ARUNDEL AQUATIC CENTER SPLASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061				E301 Sheet Name ELECTRICAL DETAILS																																																											

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	VOLTS	INPUT WATTS	LAMP	MOUNTING	REMARKS
A	4' LONG LED SEALED AND GASKETED FIXTURE WITH FIBERGLASS AND STEEL HOUSING, WHITE POWDERCOAT FINISH, DIFFUSE ACRYLIC LENS, UL RATED FOR WET LOCATIONS, IP65 RATED, ELECTRONIC DRIVER	ALBEO	ALR2-0-4T05-T48-1D-SQQQ-ST-W	120	34	LED 4000K, 5100 LUMENS	SUSPENDED 9'-0" AFF TO BOTTOM, UON	PROVIDE ALL MOUNTING ACCESSORIES FOR A COMPLETE INSTALLATION
B	14" WIDE X 7" HEIGHT X 12.5" DEEP ARCHITECTURAL LED WALL SCONCE WITH DIE CAST ALUMINUM HOUSING, DARK BRONZE MATTE POWDERCOAT FINISH, TYPE IV FORWARD OPTICS, ELECTRONIC DRIVER, WET LOCATION, EMERGENCY OPTION	BEACON	TRV-D-24L-27-4K7-4F-UNV-DBT	120	27	LED 4000K, 3726 LUMENS B1-U0-G1	SURFACE/WALL 12'-6" AFF, UON	
C	12" WIDE X 14" LONG X 3.25" HEIGHT LED POLE MOUNTED AREA LIGHT WITH DIE CAST HOUSING, DARK BRONZE MATTE POWDER COAT FINISH, SEALED OPTICS, ELECTRONIC DRIVER, IES TYPE IV FORWARD THROW DISTRIBUTION, IP66 RATING	KIM LIGHTING	RAR1-80L-25-4K7-4F-UNV-A3-DBT	120	25.4	LED 4000K, 3412 LUMENS B1-U0-G1	16 FOOT POLE	PROVIDE CONFIGURATIONS AS INDICATED ON SITE PLAN
D	4" ROUND STRAIGHT STEEL POLE, 11 GAUGE (.120") WALL, THICKNESS, FINISH TO MATCH FIXTURE	ARCHITECTURAL AREA LIGHTING	RSS-A-16-40-A-1*					
	12" DIAMETER X 3" DEEP LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, DARK BRONZE MATTE POWDERCOAT FINISH, EDGE-LIT FLAT LENS, TYPE V SQUARE WIDE OPTICS, ELECTRONIC DRIVER, WET LOCATION	BEACON	SRT1-15-4K8-5QW-UNV-DBT	120	15	LED 4000K, 2367 LUMENS B1-U0-G1	SURFACE/WALL 8'-0" AFF, UON	
EXT	LED EMERGENCY EXIT SIGN WITH PVC ENCLOSURE, POLYCARBONATE FACEPLATE, RED STENCIL LETTERS, CHEVRON KNOCKOUTS, WHITE FINISH, FULLY GASKETED, SINGLE OR TWIN FACE AND UNIVERSAL MOUNTING AS INDICATED, NEMA 4X RATED, LiFePO BATTERY	DUALITE	DYNC-S-R-W-6	120	12	(2) 3W LED HEADS 331 LUMENS PER HEAD	WALL	

LIGHTING FIXTURE SCHEDULE NOTES

- COORDINATE LIGHTING FIXTURES INDICATED ON DRAWINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS. VERIFY CEILING CONSTRUCTION IN ALL AREAS WITH ARCHITECTURAL DRAWINGS AND PROVIDE ALL MOUNTING FRAMES AND HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION, SUITABLE FOR THE CEILING TYPE AND CONFIGURATION.
- REFER TO INTERIOR/EXTERIOR LIGHTING SPECIFICATIONS FOR ADDITIONAL LAMP AND DRIVER INFORMATION. PROVIDE DRIVERS FOR VOLTAGE AS INDICATED.
- FIRST NAMED PRODUCT IS BASIS OF DESIGN. PROVIDE PRODUCTS WHICH INCLUDE ALL FEATURES AND ACCESSORIES AS INDICATED IN THE DESCRIPTION AND MODEL NUMBER OF DESIGN PRODUCT.
- ALTERNATE MANUFACTURERS INCLUDE, BUT ARE NOT LIMITED TO, THOSE LISTED BELOW. BEING LISTED DOES NOT GUARANTEE APPROVAL OF SUBMITTED FIXTURES; FIXTURE MUST COMPLY WITH PROJECT REQUIREMENTS AND MEET OR EXCEED BASIS OF DESIGN FIXTURE PERFORMANCE.
- ALL FINISH SELECTIONS SHALL BE AS APPROVED BY THE ARCHITECT. COLOR TO BE SELECTED FROM THE MANUFACTURER'S FULL RANGE, INCLUDING CUSTOM COLOR AS NOTED.
- MOUNTING HEIGHTS ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED.

POOL AND MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT	LOCATION	KW	LOAD HP	AMPS	SERVICE VOLTS	PH	CIRCUIT DESIGNATION	NEMA SIZE STARTER	DISCONNECT			NOTES	
									POLE	AMPS	FUSE VERIFY W/ NAMEPLATE		NEMA ENCLOSURE
SP BALANCE TANK CIRCULATION PUMP			3.0		208	3	SPP-22					3	
SP BOOSTER PUMP			7 1/2		208	3	SPP-6	1	3	30	30	NEMA 4X	1,2
SP UV TREATMENT SYSTEM		1.5			208	1	SPP-12						5
SP TABLET CHLORINE FEEDER/STORAGE PUMP			3/4		120	1	SPP-16						5
SPRAY GROUND TABLET ACID FEEDER PUMP			3/4		120	1	SPP-18						5
SUMP PUMP			1/3		120	1	SPP-2						
EF-1			1/4		120	1	SPP-21					NEMA 4X	4
EUH-1		3.0			208	1	SPP-23		2	30	20	NEMA 4X	1

MECHANICAL SCHEDULE NOTES:

- SINGLE POINT CONNECTION. MAKE ALL CONNECTIONS TO UNIT AS REQUIRED
- PROVIDE COMBINATION TYPE MOTOR STARTER FVNR WITH CONTROL TRANSFORMER, RED AND GREEN INDICATING LIGHTS, AND DISCONNECT.
- INSTALL VFD (FURNISHED UNDER POOL DIVISION) MAKE ALL CONNECTIONS TO MOTOR AS REQUIRED
- PROVIDE FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH HOA SWITCH IN NEMA 4X ENCLOSURE.
- MAKE CONNECTION TO CONTROL PANEL FURNISHED WITH UNIT AS REQUIRED.

DRY TYPE TRANSFORMER SCHEDULE

XFMR	KVA	PRIMARY Ø [VOLTS]	WIRING	PRIMARY CB	SECONDARY Ø [VOLTS]	WIRING	SECONDARY CB	NEUTRAL & CASE GRD	MOUNTING	NOTES	
TSPP	30	3	480	3#4+10GW-1" C	60	3	208/120	4#3+8GW-1 1/4" C	100	#6	SUSPENDED

EX MAIN DISTRIBUTION PANEL MDP

EATON / CUTLER HAMMER
MOUNTING: PAD MOUNTED **A.I.C. RATING: 65,000** **LOCATION: ELEC RM**
VOLTAGE: 480/277, 3PHASE, 4 WIRE **1200 AMPERE MAIN BUS** **1200 AMPERE MCB**

FDR NO	SERVES	CIRCUIT BREAKER			WIRING				REMARKS	CONN KVA
		P	FRAME	TRIP	SETS	NO	SIZE	GND		
1	EXISTING CIRCUIT	3	200	150					EXISTING CIRCUITING	
2	DHU-1 (POOL PAK)	3	200	175					EXISTING CIRCUITING	
3	PANEL L1 VIA XFMR	3	200	125					REFER TO XFMR SCHEDULE	
4	SPACE	3	200	-						
5	EXISTING CIRCUIT	3	200	175					EXISTING CIRCUITING	
6	SPACE	3	200	-						
7	UH-3	3	200	60					EXISTING CIRCUITING	
8	RTU-2	3	200	50					EXISTING CIRCUITING	
9	LEISURE POOL PUMP	3	200	40					EXISTING CIRCUITING	
10	RTU-1	3	200	30					EXISTING CIRCUITING	
11	ACC-2	3	200	20					EXISTING CIRCUITING	
12	ACC-1	3	200	20					EXISTING CIRCUITING	
13	PANEL H1	3	400	400					EXISTING CIRCUITING	
14	SPACE	3	400	-						1.0

PROVIDE GROUND FAULT PROTECTION AT MAIN CIRCUIT BREAKER **TOTAL CONNECTED LOAD** **1 KVA**

EX MAIN DISTRIBUTION PANEL MDP (MODIFIED)

EATON / CUTLER HAMMER
MOUNTING: PAD MOUNTED **A.I.C. RATING: 65,000** **LOCATION: ELEC RM**
VOLTAGE: 480/277, 3PHASE, 4 WIRE **1200 AMPERE MAIN BUS** **1200 AMPERE MCB**

FDR NO	SERVES	CIRCUIT BREAKER			WIRING				REMARKS	CONN KVA
		P	FRAME	TRIP	SETS	NO	SIZE	GND		
1	EXISTING CIRCUIT	3	200	150					EXISTING CIRCUITING	
2	DHU-1 (POOL PAK)	3	200	175					EXISTING CIRCUITING	
3	PANEL L1 VIA XFMR	3	200	125					REFER TO XFMR SCHEDULE	
4	PANEL SPP (VIA XFMR TSP)	3	200	60					REFER TO XFMR SCHEDULE	29.1
5	EXISTING CIRCUIT	3	200	175					EXISTING CIRCUITING	
6	SPACE	3	200	-						
7	UH-3	3	200	60					EXISTING CIRCUITING	
8	RTU-2	3	200	50					EXISTING CIRCUITING	
9	LEISURE POOL PUMP	3	200	40					EXISTING CIRCUITING	
10	RTU-1	3	200	30					EXISTING CIRCUITING	
11	ACC-2	3	200	20					EXISTING CIRCUITING	
12	ACC-1	3	200	20					EXISTING CIRCUITING	
13	PANEL H1	3	400	400					EXISTING CIRCUITING	
14	SPACE	3	400	-						1.0

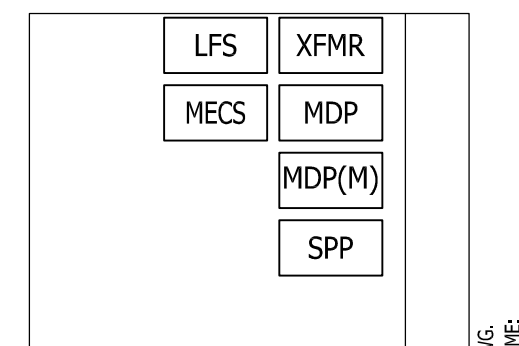
PROVIDE GROUND FAULT PROTECTION AT MAIN CIRCUIT BREAKER **TOTAL CONNECTED LOAD** **30 KVA**

PANEL SPP

VOLTAGE: 208/120V, 3PH, 4W **MOUNTING: SURFACE**
200A MAIN BUS **100 A MCB** **100% RATED NEUTRAL BUS** **22,000 A.I.C.**
LOCATION: PUMP ROOM

CONN KVA	CKT	DESCRIPTION	BREAKER				CIRCUIT WIRING				DESCRIPTION	BREAKER				CIRCUIT WIRING				CONN KVA		
			P	AMPS	NO	SIZE	GND	C	P	AMPS		NO	SIZE	GND	C							
1.0	1	LIGHTING	1	20	2	12	12	3/4					2	SUMP PUMP	1	20	2	12	12	3/4	1.1	
1.0	3	OUTDOOR LIGHTING	1	20	2	12	12	3/4					4	EXTERIOR RECEPTACLE	1	20	2	12	12	3/4	0.2	
0.8	5	RECEPTACLES	1	20	2	12	12	3/4					6	SP BOOSTER PUMP	3	30	3	10	10	3/4	2.9	
0.2	7	UNDER WATER LTG	1	20	2	12	12	3/4					8	-	-	-	-	-	-	-	2.9	
0.2	9	TIME CLOCK & CONTACTOR	1	20	2	12	12	3/4					10	-	-	-	-	-	-	-	2.9	
1.2	11	WATERPLAY CONTROLLER	1	20*	2	12	12	3/4					12	UV TREATMENT SYSTEM	2	15	2	12	12	3/4	1.0	
0.5	13	UV CONTROLLER	1	20	2	12	12	3/4					14	-	-	-	-	-	-	-	1.0	
	15	SPARE	1	20									16	CHLORINE FEEDER	1	20	2	12	12	3/4	1.5	
	17	SPARE	1	20									18	ACID FEEDER	1	20	2	12	12	3/4	1.5	
	19	SPARE	1	20									20	CHEMICAL CONTROLLER	1	20	2	12	12	3/4	1.2	
0.6	21	EF-1	1	20	2	12	12	3/4					22	SP BALANCE TANK	3	15	3	12	12	3/4	1.2	
1.5	23	EUH-1	2	20	2	12	12	3/4					24	RECIRCULATION PUMP	-	-	-	-	-	-	-	1.2
1.5	25	-	-	-	-	-	-	-					26	-	-	-	-	-	-	-	1.2	
	27	SPACE	1										28	WATER LEVELER CMTR	1	20	2	12	12	3/4	0.5	
	29	SPACE	1										30	SPACE	1							
	31	SPACE	1										32	SPACE	1							
	33	SPACE	1										34	SPACE	1							
	35	SPACE	1										36	SPACE	1							
	37	SPACE	1										38	SPD	3	30	4	10	10	1		0.1
	39	SPACE	1										40	-	-	-	-	-	-	-		0.1
	41	SPACE	1										42	-	-	-	-	-	-	-		0.1

TOTAL CONNECTED LOAD **29 KVA** **KVA PER PHASE** **A 10.7 B 8.2 C 10.2**



GENERAL NOTES:

- PROVIDE NEW CIRCUIT BREAKERS IN EXISTING TO REMAIN PANELS (SHOWN BOLD IN SCHEDULE). NEW CIRCUIT BREAKER SHALL MATCH EXISTING MANUFACTURER, STYLE, TYPE AND SHORT CIRCUIT RATING.

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. 34699 EXPIRATION DATE: 07-16-2025 ARCHITECT: DAVID WOODWARD, AIA DGN BY: _____ PRINCIPAL ARCHITECT DWN BY: _____ MANN WOODWARD STUDIOS CHKD BY: _____ 18820 PHILADELPHIA ROAD DATE: 07-01-2024 WHITE MARSH, MARYLAND 21162 P# 410-240-6400		SEAL 		REVISION <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td>30</td><td>SCHEMATIC DESIGN</td><td></td><td>06/22/2023</td></tr> <tr><td>DD</td><td>PROGRESS SUBMISSION</td><td></td><td>08/21/2023</td></tr> <tr><td>90%</td><td>CD</td><td></td><td>12/15/2023</td></tr> <tr><td></td><td>BUILDING PERMIT</td><td></td><td>02/09/2024</td></tr> <tr><td></td><td>100% CONSTRUCTION DOCUMENTS</td><td></td><td>07/01/2024</td></tr> </tbody> </table>				NO.	DESCRIPTION	BY	DATE	30	SCHEMATIC DESIGN		06/22/2023	DD	PROGRESS SUBMISSION		08/21/2023	90%	CD		12/15/2023		BUILDING PERMIT		02/09/2024		100% CONSTRUCTION DOCUMENTS		07/01/2024	APPROVED DATE APPROVED DATE CHIEF ENGINEER PROJECT MANAGER ASSISTANT CHIEF ENGINEER CHIEF, RIGHT OF WAY SERVICES				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS SCALE: AS INDICATED DRAWN BY: TLB CHECKED BY: KTC SHEET NO.: PROJECT NO. F563100 PROPOSAL NO.: F563101				ELECTRICAL NORTH ARUNDEL AQUATIC CENTER SPLASH PAD EXPANSION 7888 S. CRAIN HIGHWAY GLEN BURNIE, MD 21061 E401 Sheet Name ELECTRICAL SCHEDULES			
NO.	DESCRIPTION	BY	DATE																																								
30	SCHEMATIC DESIGN		06/22/2023																																								
DD	PROGRESS SUBMISSION		08/21/2023																																								
90%	CD		12/15/2023																																								
	BUILDING PERMIT		02/09/2024																																								
	100% CONSTRUCTION DOCUMENTS		07/01/2024																																								