

TOWN OF FOXBOROUGH, MASSACHUSETTS CHESTNUT STREET PFAS WATER TREATMENT PLANT DWSRF PROJECT NO:12535

PERMITTING SET MARCH 2024

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ARCHITECTURAL

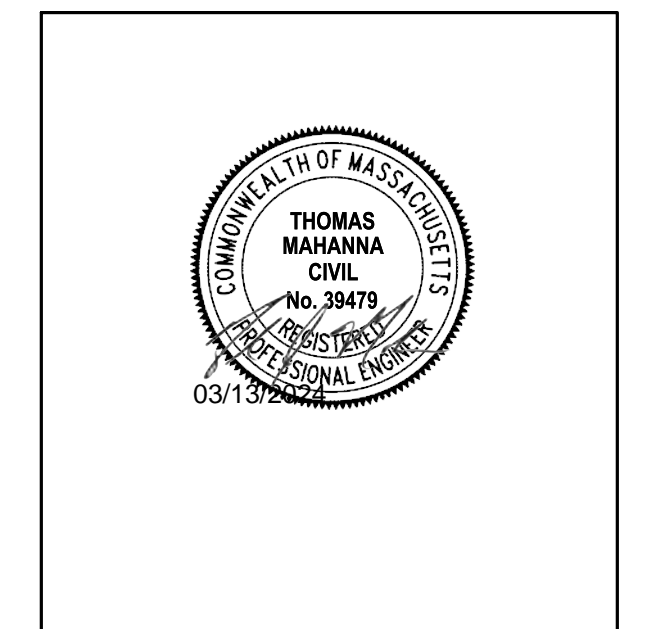
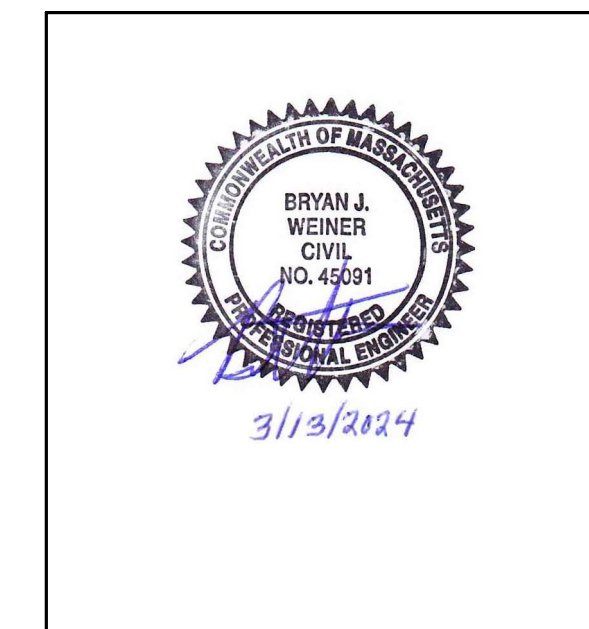
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LOCATION MAP
SCALE: 1" = 2000'

PREPARED BY:

Tighe&Bond



PREPARED FOR:

TOWN OF FOXBOROUGH, MA
WATER AND SEWER DIVISION

DPW Director: Christopher Gallagher
Superintendent: Robert B. Worthley
Assistant DPW Director/Town Engineer: Lance DePriore

BOARD MEMBERS

Chair: Michael P. Stanton
Vice Chair: Richard M. Pacella, Jr.
Clerk: Robert P. Garber

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COMPLETE SET 12 SHEETS

LEGEND

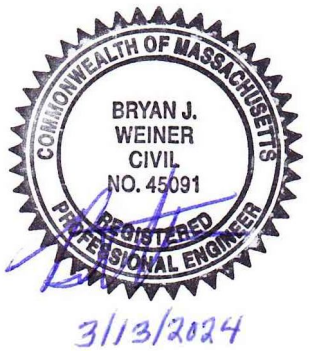
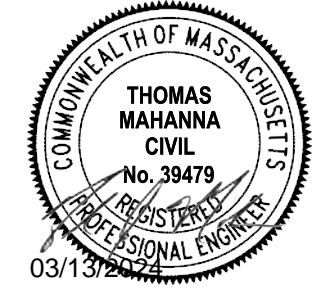
DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE	---	---
PROPERTY LINE ADJACENT	---	---
RIGHT-OF-WAY LINE	---	---
EASEMENT LINE	---	---
LIMITS OF WORK	---	---
INTERMEDIATE CONTOURS	--- 25 ---	--- 25 ---
INDEX CONTOURS	--- 25 ---	--- 25 ---
SPOT GRADE	X 141.2	+ 32.0
MAGNITUDE & DIRECTION OF SLOPE	--- SD ---	--- SD --- 0.0%
STORM DRAIN	--- SD ---	--- SD ---
STORM UNDERDRAIN	--- UD ---	--- UD ---
GRAVITY SANITARY SEWER	--- SS ---	--- SS ---
SANITARY SEWER FORCE MAIN	--- SFM ---	--- SFM ---
SANITARY SEWER LOW PRESSURE	--- SSLP ---	--- SSLP ---
SANITARY SEWER COMBINED	--- COMB ---	--- COMB ---
WATER SERVICE	--- W ---	--- W ---
POTABLE WATER	--- PW ---	--- PW ---
FIRE SERVICE	--- F ---	--- F ---
HIGH PRESSURE FIRE SERVICE	--- F-HP ---	--- F-HP ---
UNDERGROUND ELECTRIC	--- E ---	--- E ---
PRIMARY ELECTRIC SERVICE	--- PE ---	--- PE ---
SECONDARY ELECTRIC	--- SE ---	--- SE ---
OVERHEAD ELECTRIC	--- OE ---	--- OE ---
TELEPHONE SERVICE	--- T ---	--- T ---
TEL-DATA SERVICE	--- T-D ---	--- T-D ---
COMMUNICATIONS SERVICE	--- T-C ---	--- T-C ---
CABLE TV SERVICE	--- CTV ---	--- CTV ---
GAS SERVICE	--- G ---	--- G ---
OXYGEN SERVICE	--- O ---	--- O ---
OVERHEAD UTILITY (UNSPECIFIED)	--- OHW ---	--- OHW ---
CURB	---	---
EDGE OF PAVEMENT	---	---
DIRT ROAD	---	---
SIDEWALK	---	---
RETAINING WALL	---	---
STONE WALL	---	---
FENCE - UNSPECIFIED	--- X ---	--- X ---
FENCE - CHAIN LINK	--- X X X X X ---	--- X X X X X X X X X X ---
FENCE - WOOD POST	--- O ---	--- O ---
GUARDRAIL	---	---
STORM DRAIN STRUCTURES	MANHOLE (D) CATCH BASIN (B) [Symbol]	MANHOLE (D) AREA DRAIN (A) CATCH BASIN (B) [Symbol]
SANITARY SEWER STRUCTURES	MANHOLE (S) [Symbol]	MANHOLE (S) TANK (T) [Symbol]
WATER SERVICE STRUCTURES	HYDRANT (H) VALVE (W) [Symbol]	HYDRANT (H) MANHOLE (W) VALVE (W) [Symbol]
GAS SERVICE STRUCTURES	MANHOLE (G) VALVE (GG) [Symbol]	MANHOLE (G) VALVE [Symbol]
ELECTRIC SERVICE STRUCTURES	UTILITY POLE (P) MANHOLE (E) LIGHT (L) [Symbol]	UTILITY CO. POLE # (P) MANHOLE (E) LIGHT (L) [Symbol]
TREELINE	---	---
TREE	EVERGREEN (G) DECIDUOUS (D) [Symbol]	EVERGREEN (G) DECIDUOUS (D) [Symbol]

ABBREVIATIONS

ABDN('D)	ABANDON(ED)
AC	ASBESTOS CEMENT PIPE
BC	BITUMINOUS CURB
BFP	BACK FLOW PREVENTOR
BIT	BITUMINOUS
BL	BASELINE
BLDG	BUILDING
BND	BOUND
BOC	BOTTOM OF CURB
BOT	BOTTOM
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
CATV	CABLE TELEVISION
CB	CATCH BASIN
CCW	CEMENT CONCRETE WALK
CEM	CEMENT
CI	CAST IRON PIPE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CPP	CORRUGATED POLYETHYLENE PIPE
CY	CUBIC YARD
DH	DRILL HOLE
DI	DUCTILE IRON PIPE
DIA	DIAMETER
DMH	DRAIN MANHOLE
E	EAST
EF	EACH FACE
EG	EXISTING GRADE
EL/ELEV	ELEVATION
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FES	FLARED END SECTION
FF	FINISH FLOOR
FM	FORCE MAIN
G	GAS
GG	GAS GATE
GRAN	GRANITE
HC	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HYD	HYDRANT
IN	INCHES
INV	INVERT
IP	IRON PIN
L	LENGTH OF CURB
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
MJ	MECHANICAL JOINT

ABBREVIATIONS CONT'D

N	NORTH
NITC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
N/F	NOW OR FORMERLY
OC	ON CENTER
OCS	OUTLET CONTROL STRUCTURE
OH	OVERHEAD
PB	PLANT BED
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCPP	PERFORATED CORRUGATED POLYETHYLENE PIPE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PROT	PROTECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYLCHLORIDE
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REV	REVISION
ROW	RIGHT OF WAY
RT	RIGHT
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SF	SQUARE FOOT
SMH	SEWER MANHOLE
SS	STAINLESS STEEL
STA	STATION
STL	STEEL
STRM	STORM
T	TANGENT LENGTH
TC	TOP OF CURB
TEL	TEL-DATA
TP	TEST PIT
TS	TOP OF STEP
TW	TOP OF WALL
TYP	TYPICAL
UP	UTILITY POLE
W	WATER
WG	WATER GATE
WV	WATER VALVE
XFMR	TRANSFORMER



PERMITTING SET

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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

Foxborough, MA

MARK	DATE	DESCRIPTION

LEGEND & ABBREVIATIONS

SCALE: AS SHOWN

G-002

BASE PLAN NOTES

- THE EXISTING CONDITIONS INFORMATION SHOWN ON THE DRAWINGS IS BASED ON THE FOLLOWING:
 - SURVEY DRAWINGS PROVIDED BY OUTBACK ENGINEERING CORP TITLED 3038 TOPOGRAPHICAL PLAN 2023-11-20 AND DATED 11/20/23
 - DRAWINGS TITLED CIVIL_SHEETS_FOXBOROUGH WTF RECORD PLANS, PREPARED BY AECOM AND DATED 02/08/21
 - DRAWINGS PROVIDED BY LOCAL UTILITY COMPANIES
 - FIELD INVESTIGATIONS PERFORMED BY TIGHE & BOND ON NOVEMBER & DECEMBER 2023
- THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION (E.G., EXISTING UTILITIES) SHOWN ON THESE DRAWINGS IS NOT GUARANTEED AND SOME SUBSURFACE INFORMATION MAY NOT BE SHOWN. DETERMINE THE LOCATIONS AND ELEVATIONS OF ALL SUBSURFACE FEATURES WHICH MAY AFFECT CONSTRUCTION OPERATIONS BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND OTHER SUBSURFACE FEATURES, AND/OR INTERRUPTIONS IN UTILITY SERVICE. PROVIDE DATA COLLECTED THROUGH THESE INVESTIGATIONS TO THE ENGINEER PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS.
- SUB-SURFACE EXPLORATIONS WERE PERFORMED BY SOIL EXPLORATION CORPORATION ON 11/20/23. BORING LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND BORING INFORMATION IS NOT GUARANTEED IN ANY WAY TO REPRESENT EXISTING CONDITIONS. BORING LOGS ARE INCLUDED IN THE PROJECT MANUAL FOR THE CONTRACTORS INFORMATION ONLY.
- THE DRAWINGS ARE BASED ON THE FOLLOWING DATUMS: HORIZONTAL- NAD83, MASSACHUSETTS STATE PLANE, MAINLAND, US SURVEY FEET ; VERTICAL - NAVD88.
- THE EXISTING CONDITIONS SHOWN ARE APPROXIMATE. FIELD VERIFY EXISTING CONDITIONS.
- THE PROPERTY LINES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE NOT BASED ON DEED OR PLAN RESEARCH.

GENERAL NOTES

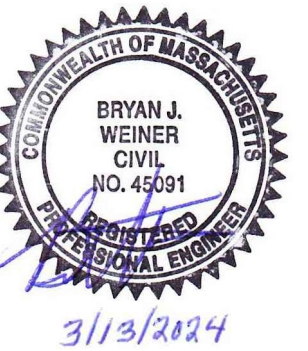
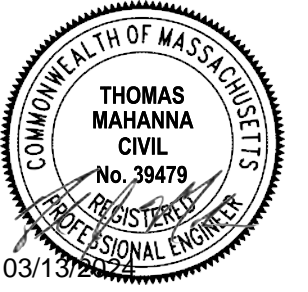
- NOTIFY DIGSAFE AT 1-888-344-7233 AND OTHER UTILITY OWNERS IN THE AREA NOT ON THE LIST AT LEAST 72 HOURS PRIOR TO ANY DIGGING, TRENCHING, ROCK REMOVAL, DEMOLITION, BORING, BACKFILLING, GRADING, LANDSCAPING, OR ANY OTHER EARTH MOVING OPERATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXISTING UTILITIES AND REPAIR OR REPLACEMENT COSTS OF UTILITIES DAMAGED DURING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE. REPLACE DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER AND AT NO COST TO THE PROPERTY OWNER
- NOT ALL OF THE UTILITY SERVICES TO BUILDINGS ARE SHOWN. THE CONTRACTOR SHALL ANTICIPATE THAT EACH PROPERTY HAS SERVICE CONNECTIONS FOR THE VARIOUS UTILITIES.
- BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
- TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES, LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM TIGHE & BOND.
- EXCAVATE ADDITIONAL TEST PITS TO LOCATE EXISTING UTILITIES AS DIRECTED OR APPROVED BY THE ENGINEER.
- NOTIFY THE ENGINEER OF ANY UTILITIES IDENTIFIED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE DRAWINGS OR THAT DIFFER IN SIZE OR MATERIAL.
- THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY; COORDINATION WITH THE OWNER, ALL SUBCONTRACTORS, AND WITH OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF WORK, THE MEANS AND METHODS OF CONSTRUCTING THE PROPOSED WORK.
- OBTAIN, PAY FOR AND COMPLY WITH PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK. ARRANGE AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE JURISDICTIONAL AUTHORITIES.
- SHORE UTILITY TRENCHES WHERE FIELD CONDITIONS DICTATE AND/OR WHERE REQUIRED BY LOCAL, STATE AND FEDERAL HEALTH AND SAFETY CODES.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF FIELD CONDITIONS ARE OBSERVED THAT VARY SIGNIFICANTLY FROM THOSE SHOWN ON THE DRAWINGS, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING FOR RESOLUTION OF THE CONFLICTING INFORMATION.
- PROTECT AND MAINTAIN ALL UTILITIES IN THE AREAS UNDER CONSTRUCTION DURING THE WORK. LEAVE ALL PIPES AND STRUCTURES WITHIN THE LIMITS OF THE CONTRACT IN A CLEAN AND OPERABLE CONDITION AT THE COMPLETION OF THE WORK. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SAND AND SILT FROM DISTURBED AREAS FROM ENTERING THE DRAINAGE SYSTEM.
- NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WITH THE PLANS OR BETWEEN THE PLANS AND ANY APPLICABLE LAW, REGULATION, CODE, STANDARD SPECIFICATION, OR MANUFACTURER'S INSTRUCTIONS.
- EXCAVATE WITH EQUIPMENT SELECTED TO MINIMIZE DAMAGE TO EXISTING UTILITIES OR OTHER FACILITIES. HAND EXCAVATE AS NECESSARY TO LOCATE UTILITIES AND AVOID DAMAGE.
- TAKE NECESSARY MEASURES AND PROVIDE CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL WORK AND STAGING AREAS AT THE COMPLETION OF EACH DAYS WORK.
- NO OPEN TRENCHES WILL BE ALLOWED OVER NIGHT. THE USE OF ROAD PLATES TO PROTECT THE EXCAVATION WILL BE CONSIDERED UPON REQUEST, BUT BACKFILLING IS PREFERRED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL/SAFETY DEVICES TO ENSURE SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH THE WORK AREA, OR FOR SAFELY IMPLEMENTING DETOURS AROUND THE WORK AREA. PERFORM TRAFFIC CONTROL IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN.
- MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
- WHEN WORKING IN THE ROAD, PROVIDE THE OWNER AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES A DETAILED PLAN OF APPROACH INDICATING METHODS OF PROPOSED TRAFFIC ROUTING ON A DAILY BASIS. PROVIDE COORDINATION TO ENSURE COMMUNICATION AND COORDINATION BETWEEN THE OWNER, CONTRACTOR AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES THROUGHOUT THE CONSTRUCTION PERIOD.
- REMOVE AND DISPOSE OF ALL CONSTRUCTION-RELATED WASTE MATERIALS AND DEBRIS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
- THE TERM "DEMOLISH" USED ON THE DRAWINGS MEANS TO REMOVE AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- THE TERM "ABANDON" USED ON THE DRAWINGS MEANS TO LEAVE IN PLACE AND TAKE APPROPRIATE MEASURES TO DECOMMISSION AS SPECIFIED OR NOTED ON THE DRAWINGS.
- ALL PROPOSED WORK MAY BE ADJUSTED IN THE FIELD BY THE OWNER'S PROJECT REPRESENTATIVE TO MEET EXISTING CONDITIONS.

EROSION CONTROL AND RESOURCE AREA PROTECTION NOTES

- PROVIDE ALL EROSION CONTROL MEASURES SHOWN, SPECIFIED, REQUIRED BY PERMIT, AND/OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR IMMEDIATELY UPON REQUEST. MAINTAIN SUCH CONTROL MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL PERMANENT VEGETATION IS ESTABLISHED. INSPECT AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO CONFIRM THAT ALL SEDIMENTATION AND EROSION CONTROL MEASURES REQUIRED ARE IN PLACE AND EFFECTIVE.
- PRIOR TO STARTING WORK, CLEARLY STAKE WORK LIMITS. DO NOT DISTURB VEGETATION AND TOPSOIL BEYOND THE PROPOSED LIMITS. COORDINATE WITH THE ENGINEER FOR LOCATIONS OF TEMPORARY STOCKPILING OF TOPSOIL DURING CONSTRUCTION.
- INSTALL SILT SACKS OR OTHER APPROVED SEDIMENTATION BARRIERS IN/AT ALL CATCH BASINS IN THE PROJECT AREA.
- COMPACT, STABILIZE, AND LOAM AND SEED SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND AS REQUIRED BY PERMITS. GRADE SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS TO A MAXIMUM SLOPE OF 3 HORIZONTAL TO 1 VERTICAL (3H:1V), WHERE POSSIBLE. PROVIDE BIODEGRADABLE EROSION CONTROL BLANKETS TO PREVENT EROSION WHERE SLOPES ARE STEEPER THAN 3H:1V.
- SETTLE OR FILTER ALL SILT-LADEN WATER FROM DEWATERING ACTIVITIES IN A SEDIMENTATION OR FILTER BAG TO REMOVE SEDIMENTS PRIOR TO RELEASE USING A SEDIMENTATION OR FILTER BAG LOCATED DOWN-GRADIENT OF THE DEWATERED AREA.
- REMOVE AND PROPERLY DISPOSE OF SILT TRAPPED AT BARRIERS IN UPLAND AREAS OUTSIDE BUFFER ZONES. REMOVE MATERIALS DEPOSITED IN ANY TEMPORARY SETTLING BASINS AT THE COMPLETION OF THE PROJECT. RESTORE ALL DISTURBED AREAS TO THEIR PRECONSTRUCTION CONDITION.
- SWEEP, COLLECT, REMOVE AND DISPOSE OF ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.
- LOAM AND SEED ALL DISTURBED VEGETATED AREAS TO ESTABLISH COVER AND STABILIZATION AS SOON AS POSSIBLE FOLLOWING DISTURBANCE.
- MAINTAIN AN ADDITIONAL SUPPLY OF EROSION CONTROL MEASURES ON-SITE FOR EMERGENCY REPAIRS.
- STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE TO A SECURE LOCKED AND COVERED AREA DURING NON-WORK HOURS.
- PROVIDE A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS SUCH AS BOOMS, BLANKETS, AND OIL ABSORBENT MATERIALS AT THE CONSTRUCTION SITE AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS. IMMEDIATELY REPORT SPILLS OF HAZARDOUS MATERIALS TO THE STATE ENVIRONMENTAL AGENCY AND THE MUNICIPALITY WHERE THE WORK IS OCCURRING.

SURFACE RESTORATION NOTES

- ALL PAVEMENT DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PROVIDE SITE GRADING AT ACCESSIBLE SIDEWALK RAMPS, SIDEWALKS, AND BUILDING ENTRANCES THAT IS CONSISTENT WITH THE RELEVANT ACCESS REQUIREMENTS OF THE ARCHITECTURAL BARRIERS ACT (ABA), THE AMERICANS WITH DISABILITIES ACT (ADA), AND MA ARCHITECTURAL ACCESS BOARD REQUIREMENTS (AAB). SMALL CHANGES IN GRADE OVER RELATIVELY SHORT DISTANCES (E.G. AT PARKING SPACES, ACCESSIBLE ROUTES, AND RAMPS) MIGHT NOT BE CLEARLY DEPICTED WITHIN THE CONTOUR INTERVAL SHOWN. COMPLY WITH THE CRITERIA IN THESE STANDARDS. SELECT MAXIMUM SLOPE CRITERIA ARE REPRODUCED BELOW:
 - ACCESSIBLE PARKING STALL AND PASSENGER LOADING ZONE (ANY DIRECTION) SLOPE < 2.0%
 - LONGITUDINAL SLOPE ALONG ACCESSIBLE ROUTES < 5.0%
 - CROSS SLOPE ALONG ACCESSIBLE ROUTES < 2.0%
- PROTECT PROJECT FEATURES (E.G., WALLS, FENCES, MAIL BOXES, SIGNS, SIDEWALKS, CURBING, STAIRS, WALKWAYS, TREES, ETC.) FROM DAMAGE DURING CONSTRUCTION, INCLUDING PROVIDING TEMPORARY SUPPORTS, WHEN APPROPRIATE.
- IF REMOVAL OF PROJECT FEATURES IS REQUIRED IN ORDER TO PERFORM THE PROPOSED WORK, REMOVE THOSE SITE FEATURES ONLY UPON APPROVAL OF ENGINEER. REPLACE ALL REMOVED PROJECT FEATURES; NEW ITEMS SHALL BE EQUAL OR BETTER IN QUALITY AND CONDITION TO THE ITEMS REMOVED.
- EXISTING SURVEY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY A LAND SURVEYOR LICENSED IN THE STATE IN WHICH THE WORK IS PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE THE ADJUSTMENT OF EXISTING UTILITY STRUCTURES WITH EACH RESPONSIBLE UTILITY OWNER PRIOR TO RECONSTRUCTION AND/OR PAVING OPERATIONS. RAISE ALL STRUCTURES TO FINISHED GRADES PRIOR TO THE END OF THE CONSTRUCTION SEASON AND PRIOR TO FINISHED PAVING.
- PLACE TEMPORARY BITUMINOUS CONCRETE PAVEMENT AT DISTURBED PORTLAND CEMENT CONCRETE SIDEWALKS AND DRIVEWAYS AT THE END OF EACH WORK WEEK, UNLESS OTHERWISE APPROVED/REQUIRED BY THE OWNER.
- TRANSFER ALL TEMPORARY BENCHMARKS, AS NECESSARY.
- ACCOMMODATE PEDESTRIAN TRAFFIC WHERE A SIDEWALK IS TO BE CLOSED FOR SAFETY. "SIDEWALK CLOSED HERE" SIGNS SHALL BE USED AT THE NEAREST SAFE INTERSECTION. SEE TRAFFIC CONTROL DETAILS FOR SIGN INFORMATION.
- RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE PAYLINE LIMITS TO ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- REGRADE ALL UNPAVED AREAS DISTURBED BY THE WORK AS REQUIRED. REPAIR/REPLACE PAVED SURFACES DISTURBED BY THE WORK IN-KIND, UNLESS OTHERWISE NOTED. RESTORE SURFACES TO EXISTING OR PROPOSED CONDITIONS AS INDICATED ON THE DRAWINGS.
- PROVIDE A SMOOTH, FLUSH TRANSITION BETWEEN ALL NEW AND EXISTING PAVEMENTS AND WALKING SURFACES.



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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

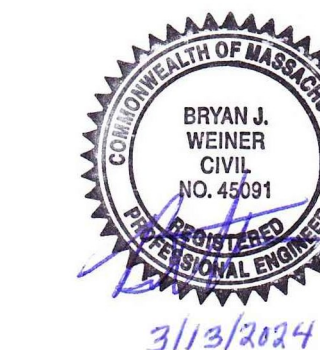
Foxborough, MA

MARK	DATE	DESCRIPTION
PROJECT NO:		F5008-004
DATE:		12/29/2023
FILE:		F5008-004-G-002
DRAWN BY:		K.BERNIER
DESIGNED/CHECKED BY:		MI/PNP
APPROVED BY:		CG

GENERAL NOTES

SCALE: AS SHOWN

G-003



PERMITTING SET

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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

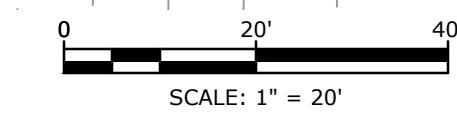
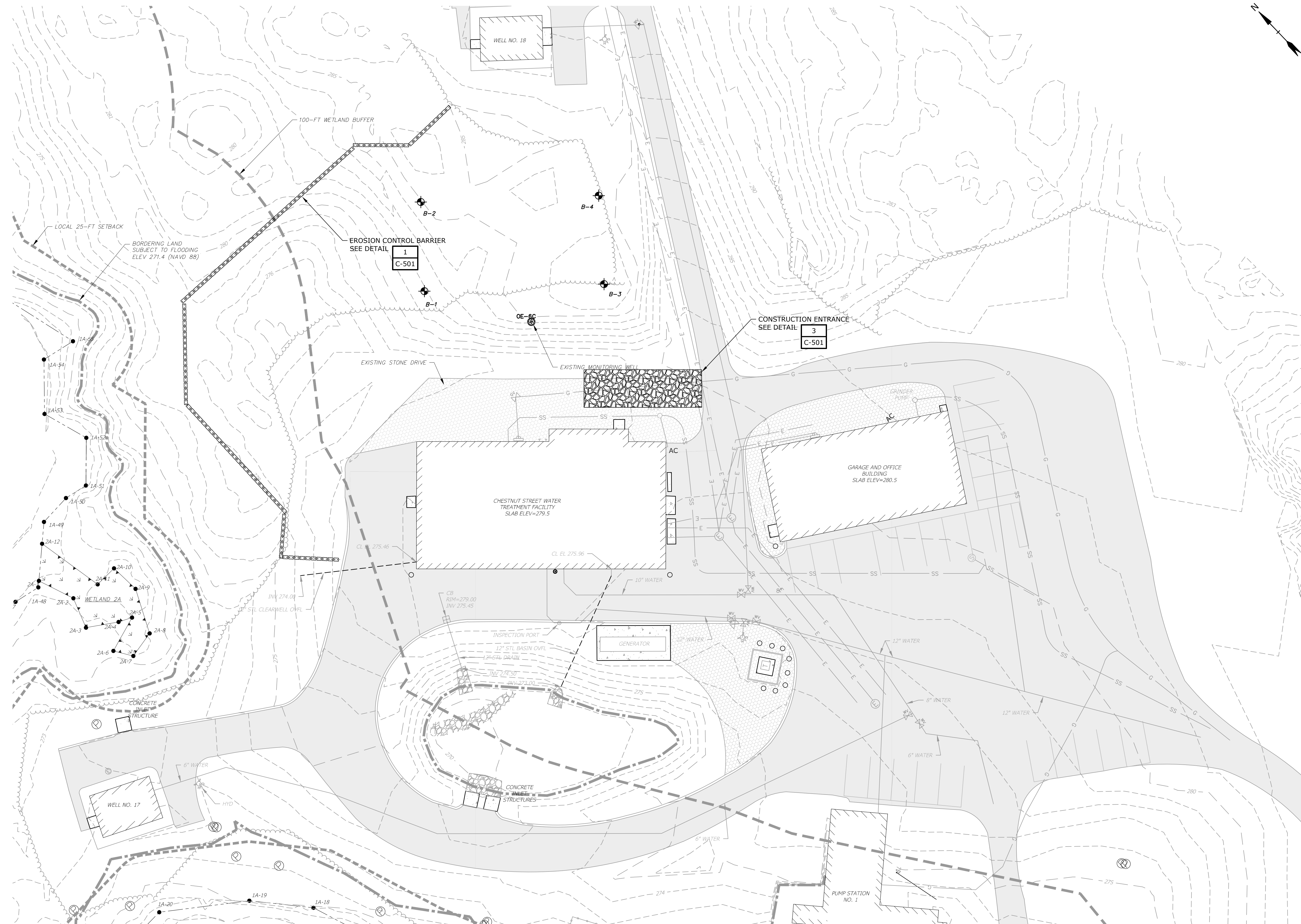
Foxborough, MA

MARK	DATE	DESCRIPTION
PROJECT NO:	F5008-004	
DATE:	12/29/2023	
FILE:	F5008-004-C-101	
DRAWN BY:	MJC	
DESIGNED/CHECKED BY:	MJC/DAP	
APPROVED BY:	CG	

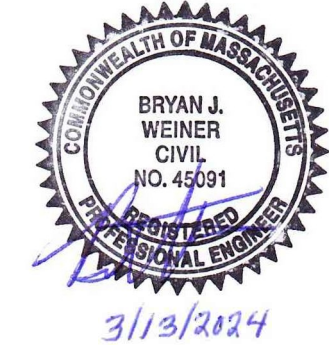
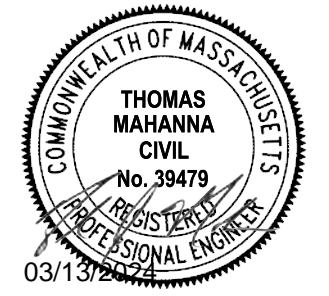
EXISTING CONDITIONS AND SITE PREPARATIONS PLAN

SCALE: 1" = 20'

C-101

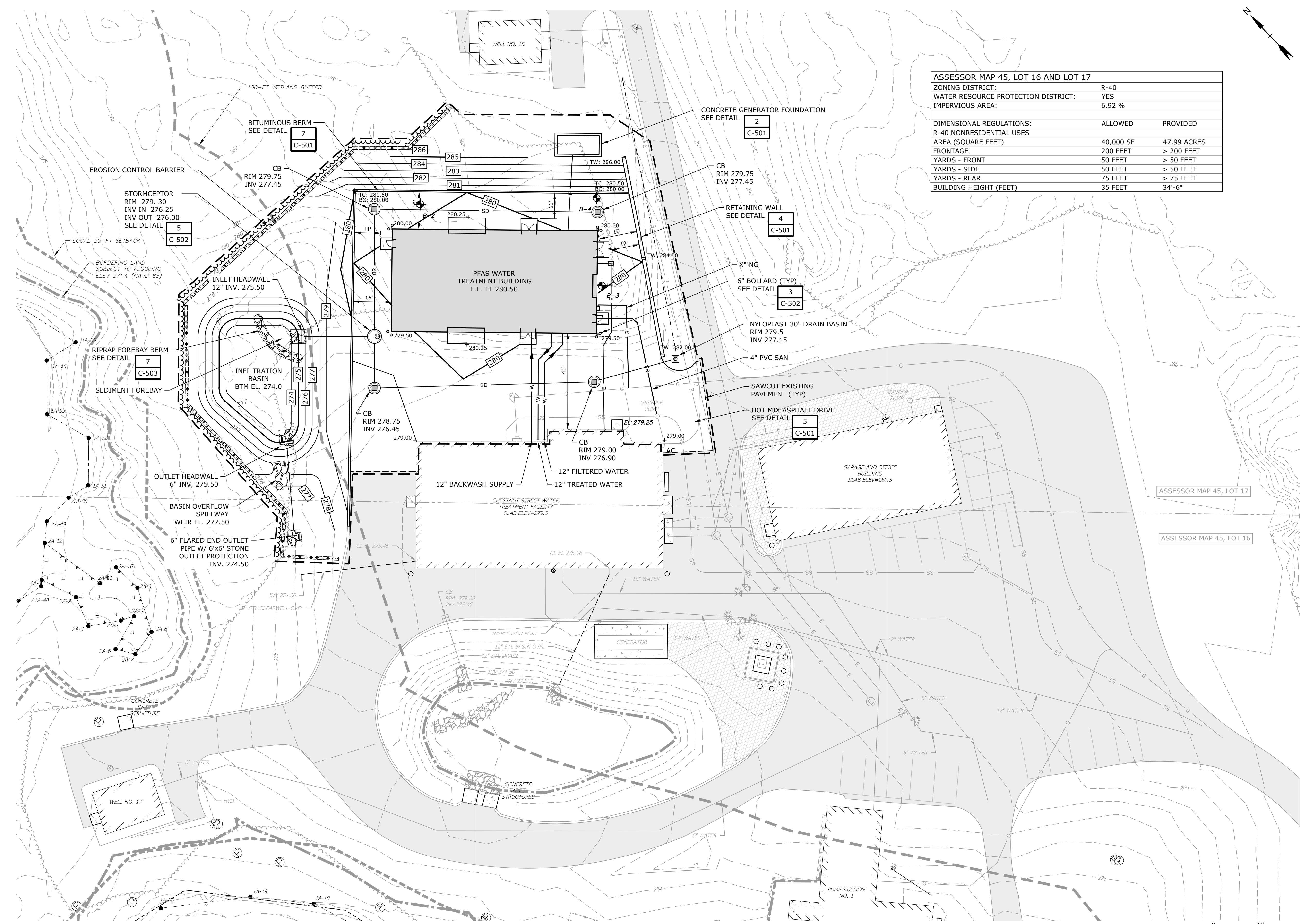


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 Plotted On: Mar 13, 2024 10:14am By: MCurran
 Tighe & Bond | 123 Main St | Foxborough, MA 01908 | F5008-004 PFAS Treatment Design Drawings | Figures/AutoCAD/Sheet/01-101.dwg



ASSESSOR MAP 45, LOT 16 AND LOT 17

ZONING DISTRICT:	R-40	
WATER RESOURCE PROTECTION DISTRICT:	YES	
IMPERVIOUS AREA:	6.92 %	
DIMENSIONAL REGULATIONS:		
	ALLOWED	PROVIDED
R-40 NONRESIDENTIAL USES		
AREA (SQUARE FEET)	40,000 SF	47.99 ACRES
FRONTAGE	200 FEET	> 200 FEET
YARDS - FRONT	50 FEET	> 50 FEET
YARDS - SIDE	50 FEET	> 50 FEET
YARDS - REAR	75 FEET	> 75 FEET
BUILDING HEIGHT (FEET)	35 FEET	34'-6"



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Foxborough, MA

MARK	DATE	DESCRIPTION

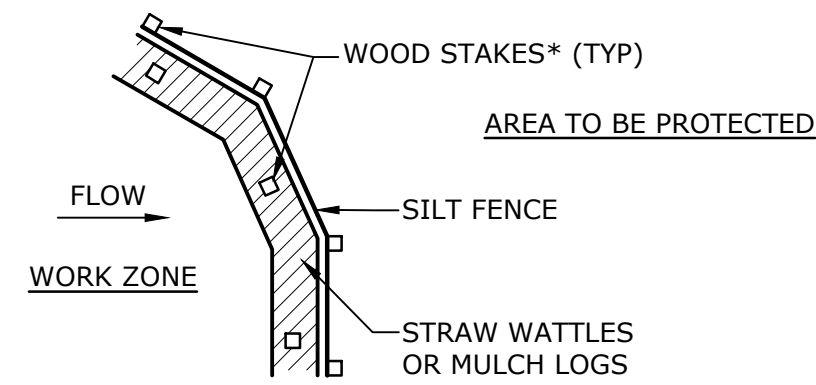
PROJECT NO:	F5008-004
DATE:	12/29/2023
FILE:	F5008-004-C-102
DRAWN BY:	MJC
DESIGNED/CHECKED BY:	MJC/DAP
APPROVED BY:	CG

SITE LAYOUT AND GRADING PLAN

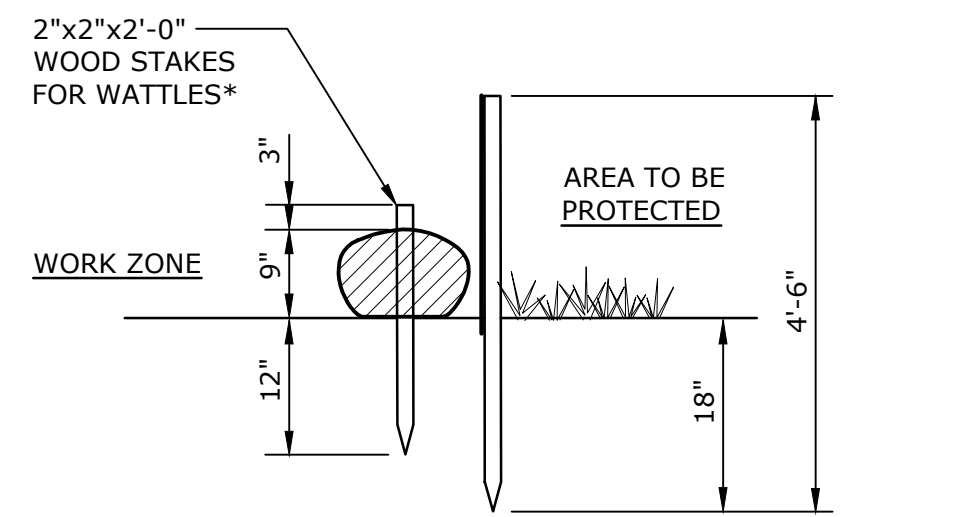
SCALE: 1" = 20'

C-102

Last Saved: 3/8/2024
 Plotted On: Mar 13, 2024 10:14am By: MCurran
 Tighe & Bond | 231VF5008 - Foxborough 004 - PFAS Treatment - Design | Drawings - Tighe & Bond | 231VF5008 - Foxborough 004 - PFAS Treatment - Design | 004 - C-102.dwg



PLAN

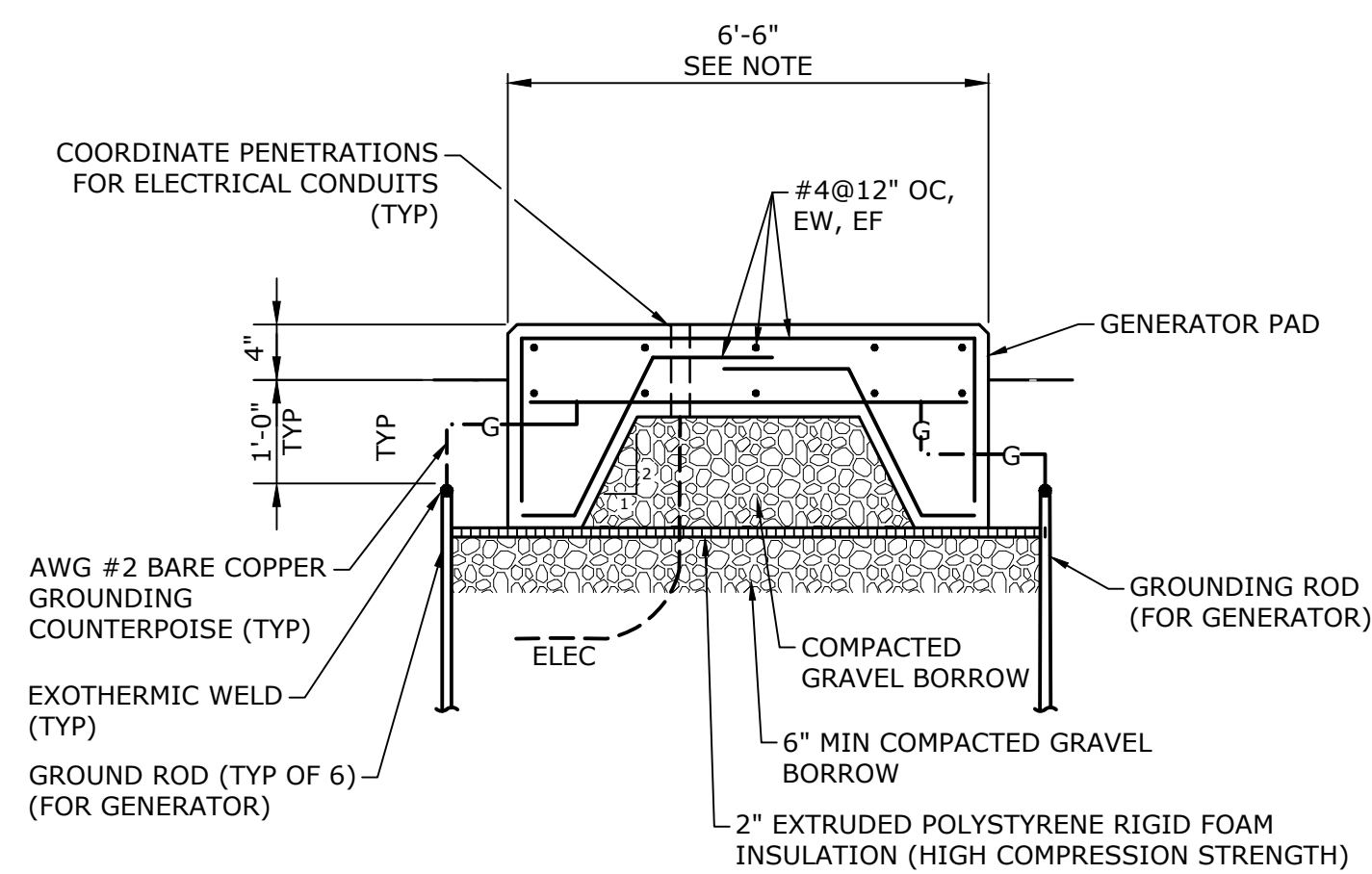


SECTION

*-STAKES TO BE SPACED AT 4'-5' O.C. STAGGER STAKES BETWEEN STRAW WATTLES AND SILT FENCE

EROSION CONTROL BARRIER

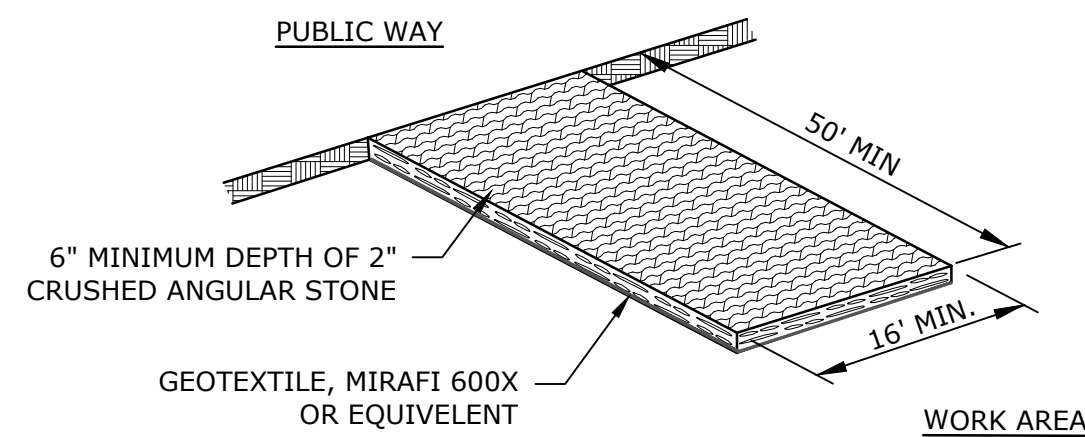
DETAIL	1
NO SCALE	C-102



NOTE: COORDINATE THE SIZE OF THE EQUIPMENT PAD WITH THE EQUIPMENT SHOP DRAWING

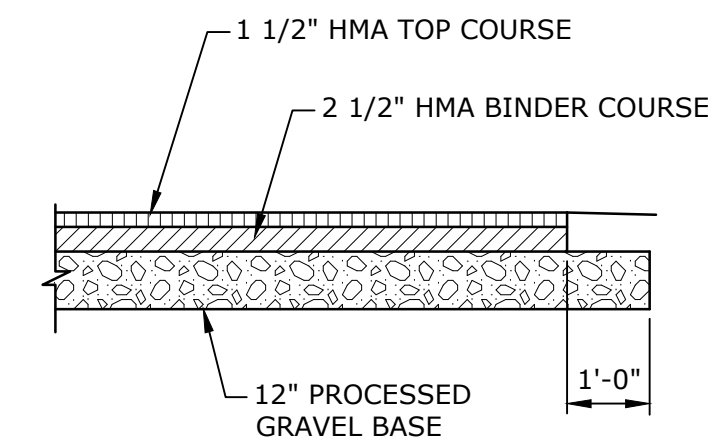
GENERATOR PAD DETAIL

DETAIL	2
NO SCALE	C-102



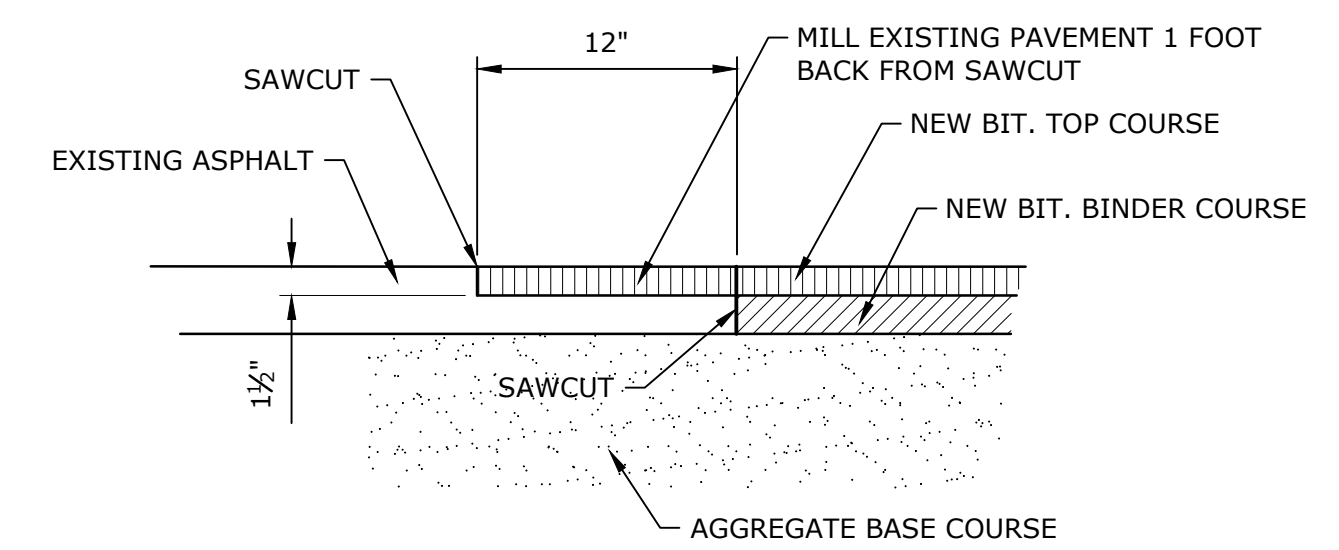
CONSTRUCTION ENTRANCE

DETAIL	3
NO SCALE	C-101



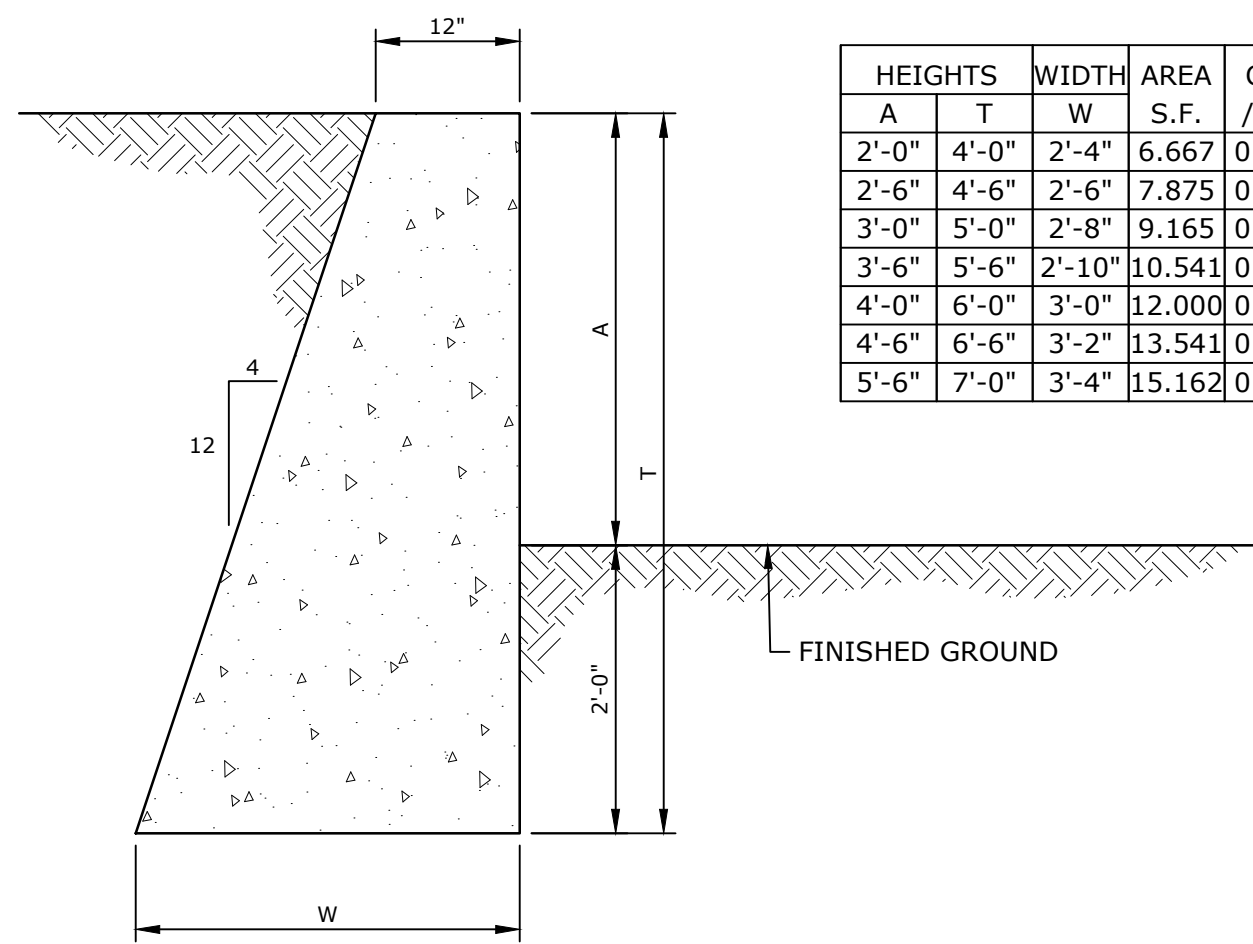
HMA DRIVEWAYS

DETAIL	5
NO SCALE	C-102



TYPICAL BUTT JOINT TO EXISTING PAVEMENT

DETAIL	6
NO SCALE	C-102

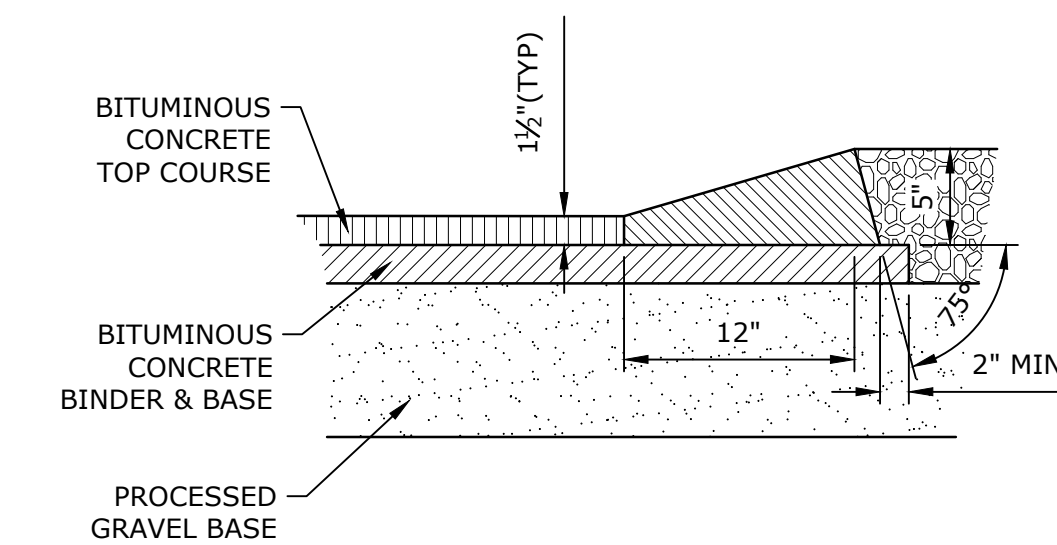


HEIGHTS	WIDTH	AREA	C.Y.
A	T	W	S.F. /L.F.
2'-0"	4'-0"	2'-4"	6.667 0.247
2'-6"	4'-6"	2'-6"	7.875 0.292
3'-0"	5'-0"	2'-8"	9.165 0.339
3'-6"	5'-6"	2'-10"	10.541 0.390
4'-0"	6'-0"	3'-0"	12.000 0.444
4'-6"	6'-6"	3'-2"	13.541 0.502
5'-6"	7'-0"	3'-4"	15.162 0.652

- NOTES:
1. CLASS "A" CEMENT CONCRETE TO BE USED.
 2. EXPANSION JOINTS TO BE PLACED AT 30' O.C. MAXIMUM.
 3. ALL CONCRETE DIMENSIONS ARE MINIMUM
 4. APPROXIMATE QUANTITIES ARE SHOWN FOR REFERENCE ONLY.

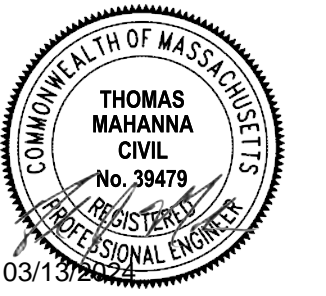
LOW RETAINING WALLS

DETAIL	4
NO SCALE	C-102



MODIFIED BITUMINOUS BERM - TYPE "A"

DETAIL	7
NO SCALE	C-102



PERMITTING SET

NOT FOR CONSTRUCTION

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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

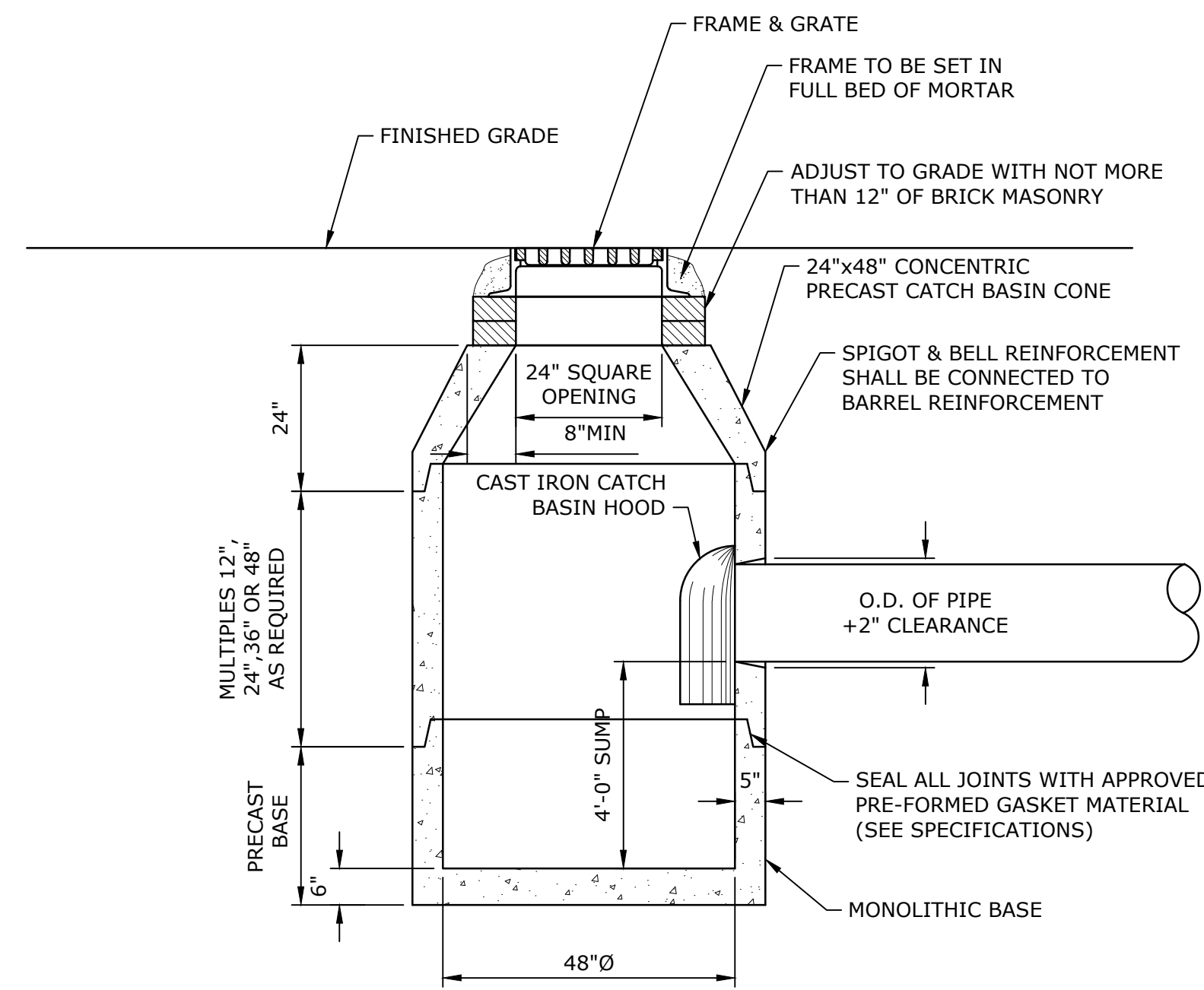
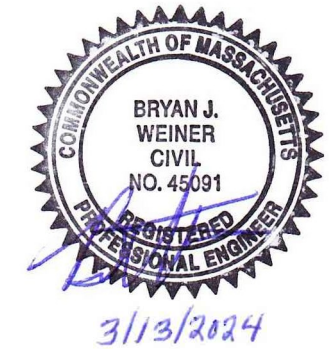
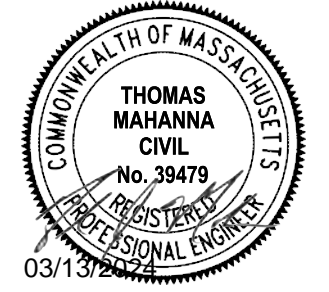
Foxborough, MA

MARK	DATE	DESCRIPTION
PROJECT NO:	F5008-004	
DATE:	12/29/2023	
FILE:	F5008-004-C-501-503	
DRAWN BY:	MJC	
DESIGNED/CHECKED BY:	MJC/BJW	
APPROVED BY:	CG	

CIVIL DETAILS - 1

SCALE: NO SCALE

C-501
SHEET # OF #

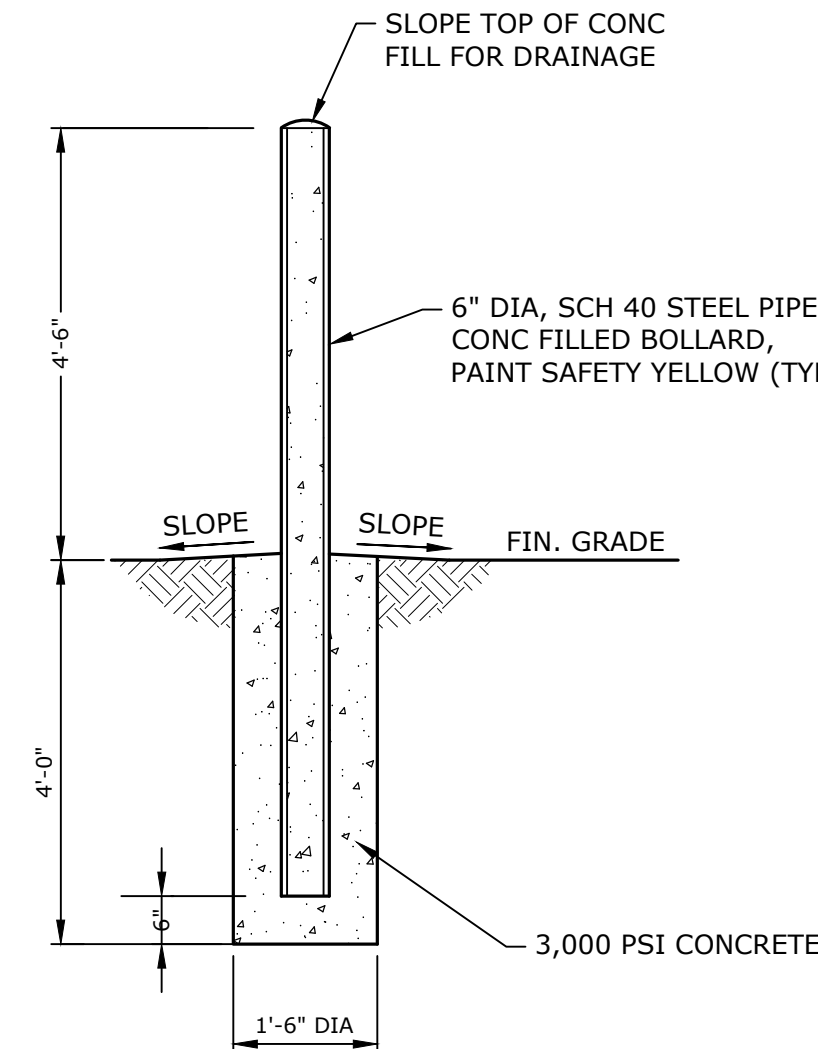


NOTES:

1. FOR USE WITH PVC PIPE, PROVIDE RUBBER BOOT SIMILAR TO MANHOLE DETAIL.
2. FOR USE WITH OTHER TYPES OF PIPE, SEAL JOINT BETWEEN PIPE AND CATCH BASIN WITH GROUT.

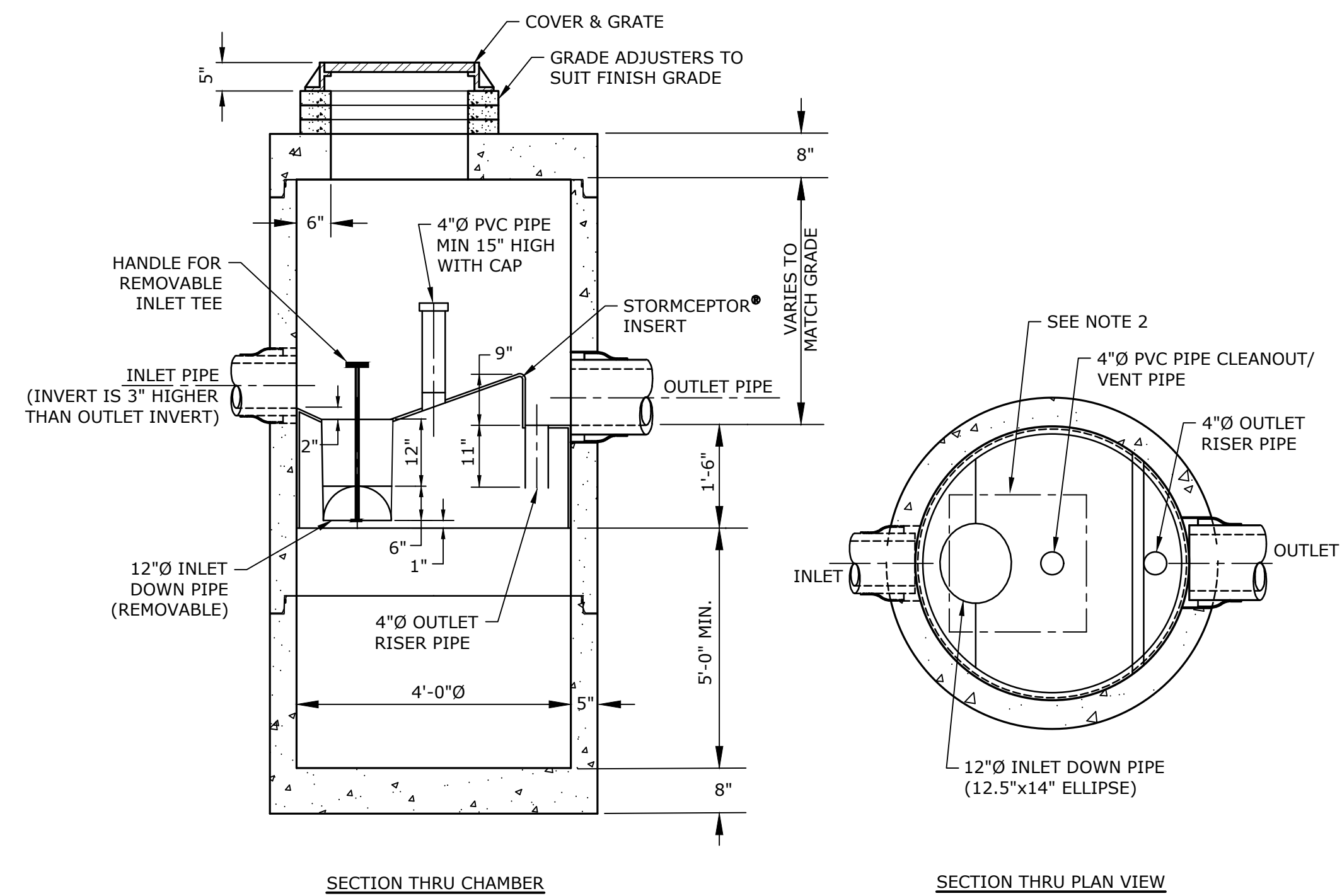
PRECAST CONCRETE CATCH BASIN

DETAIL	1
NO SCALE	C-102



6" DIAMETER STEEL BOLLARD

DETAIL	3
NO SCALE	C-102

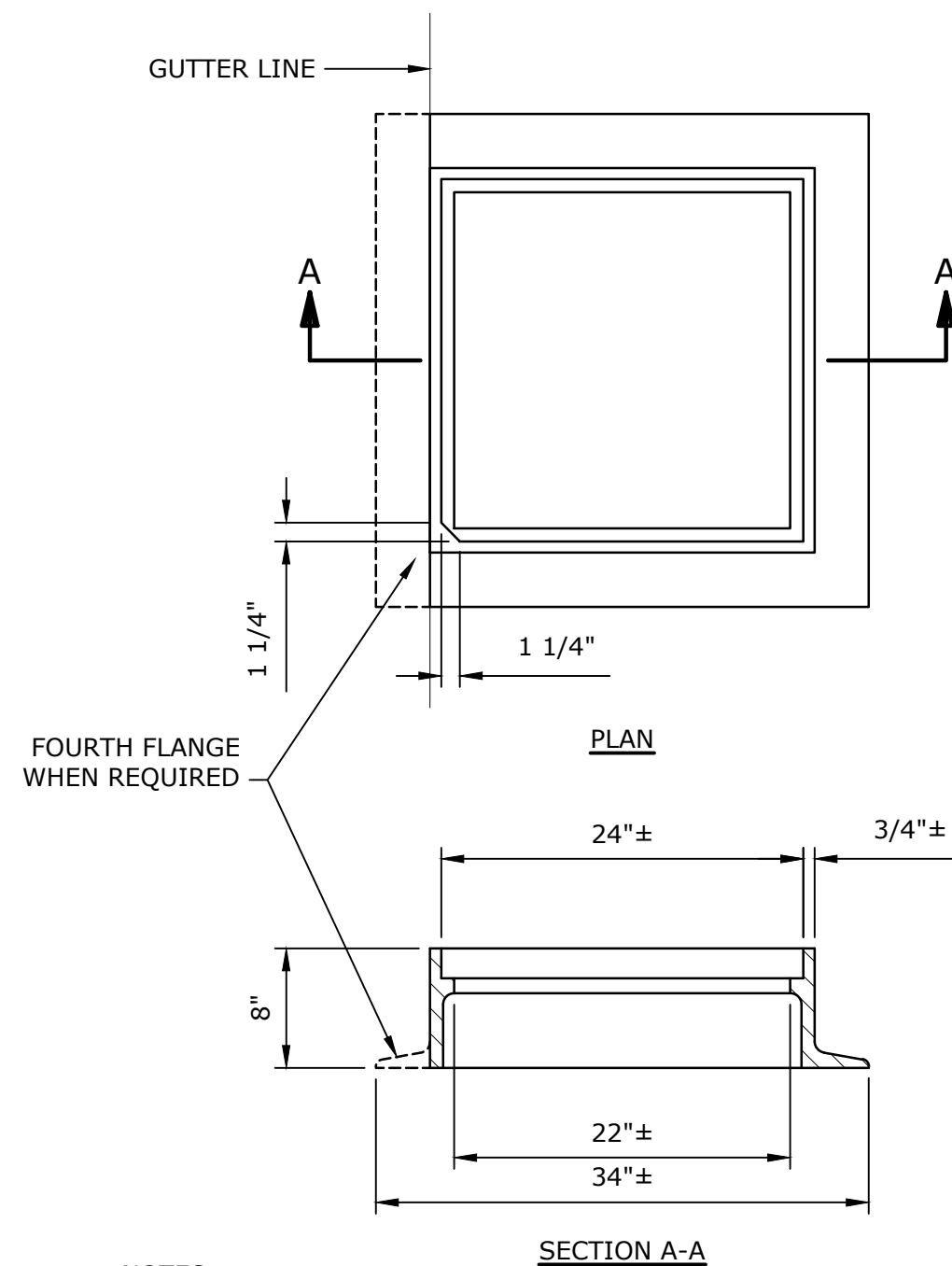


NOTES:

1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE CLEANOUT/ VENT PIPE.
3. THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181.

STORMCEPTOR (STC-450i)

DETAIL	5
NO SCALE	C-102

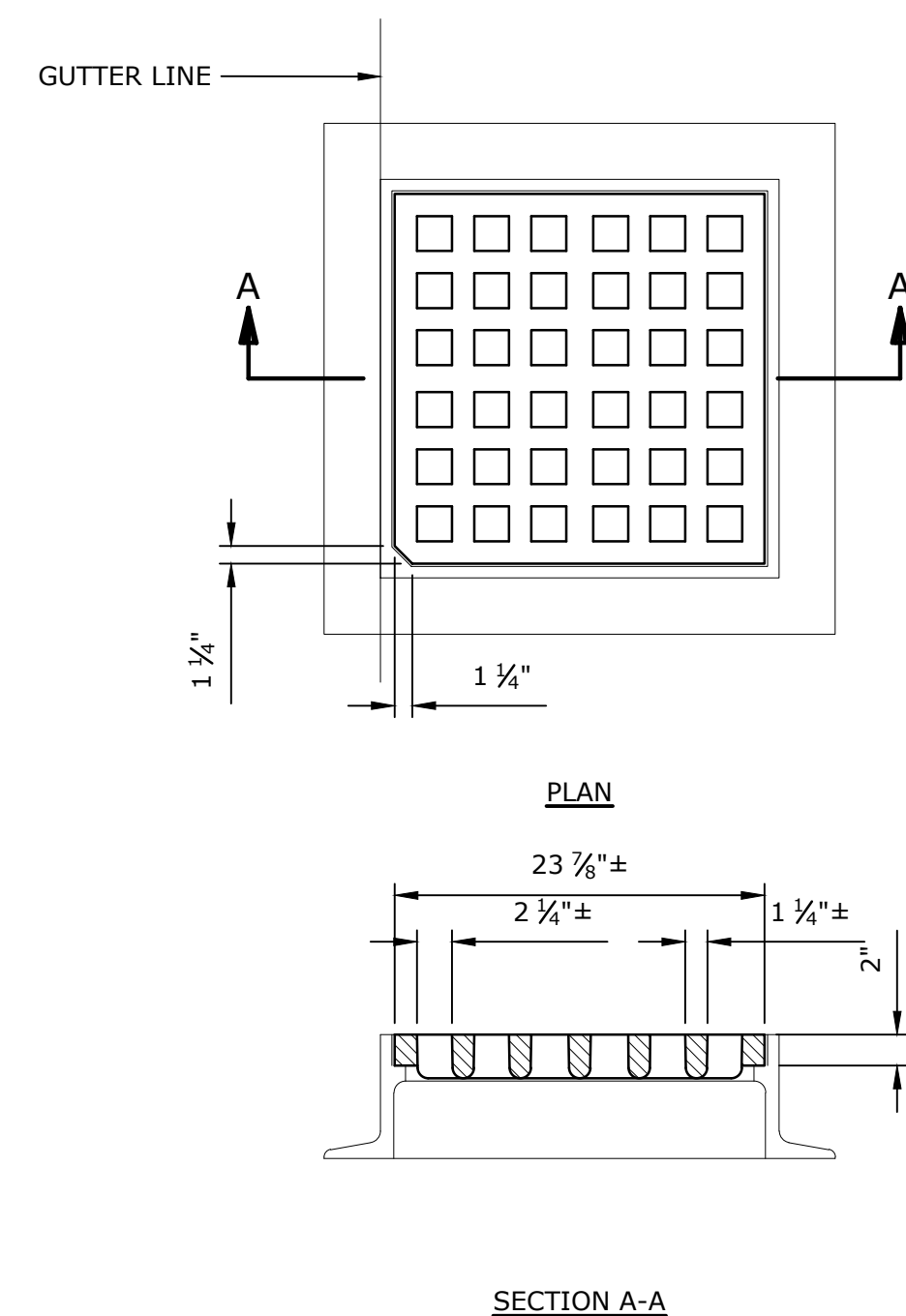


NOTES:

1. MINIMUM FRAME WEIGHT:
4 FLANGE - 295± LBS
3 FLANGE - 265± LBS
2. MATERIAL - CAST IRON, SEE SPECIFICATIONS
3. FOR ADDITIONAL INFORMATION SEE MHD 201.6.0

CATCH BASIN FRAME

DETAIL	2
NO SCALE	C-102

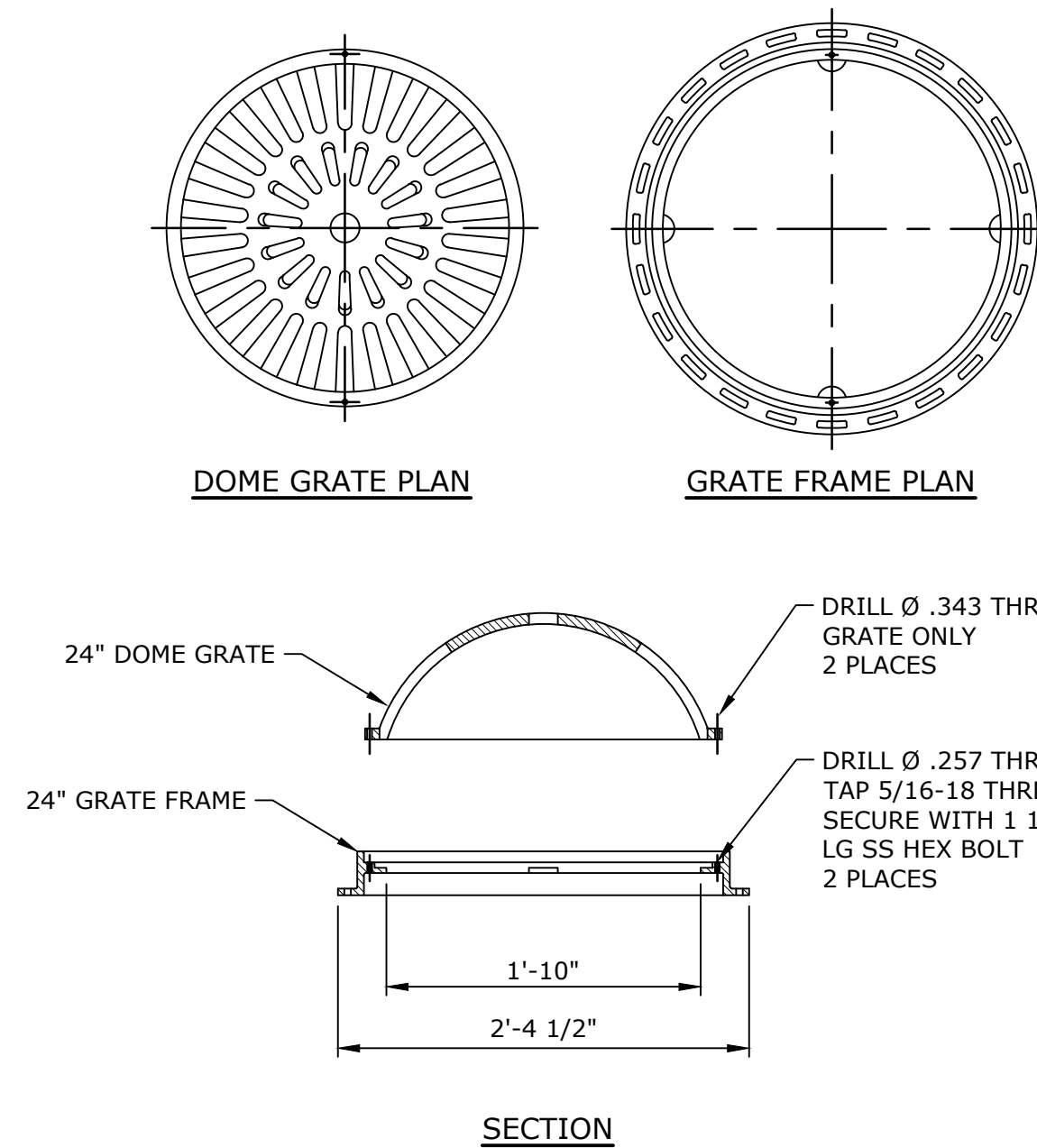


NOTES:

1. MINIMUM WEIGHT OF GRATE - 190 LBS.
2. MATERIAL - CAST IRON, SEE SPECIFICATIONS.

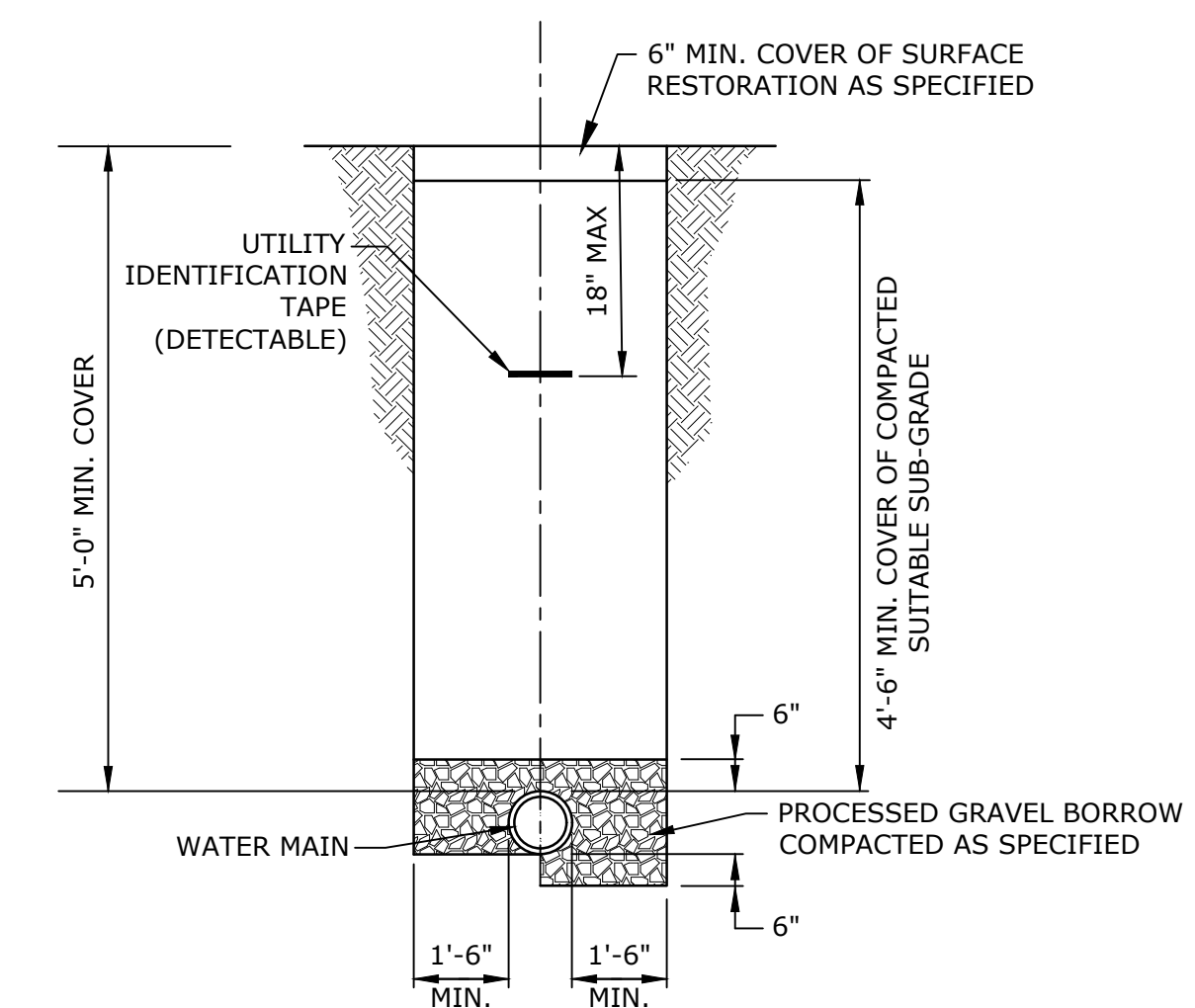
CATCH BASIN GRATE

DETAIL	4
NO SCALE	C-102



NYLOPLAST 2499CGDL YARD BASIN FRAME AND COVER

DETAIL	6
NO SCALE	C-102



- NOTE:**
ALL WATER MAIN INSTALLATIONS WILL MEET THE MINIMUM REQUIRED SETBACK DISTANCES FROM OTHER UTILITIES AND STRUCTURES.

TYPICAL WATER MAIN TRENCH

DETAIL	7
NO SCALE	C-102

PERMITTING SET

NOT FOR CONSTRUCTION

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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

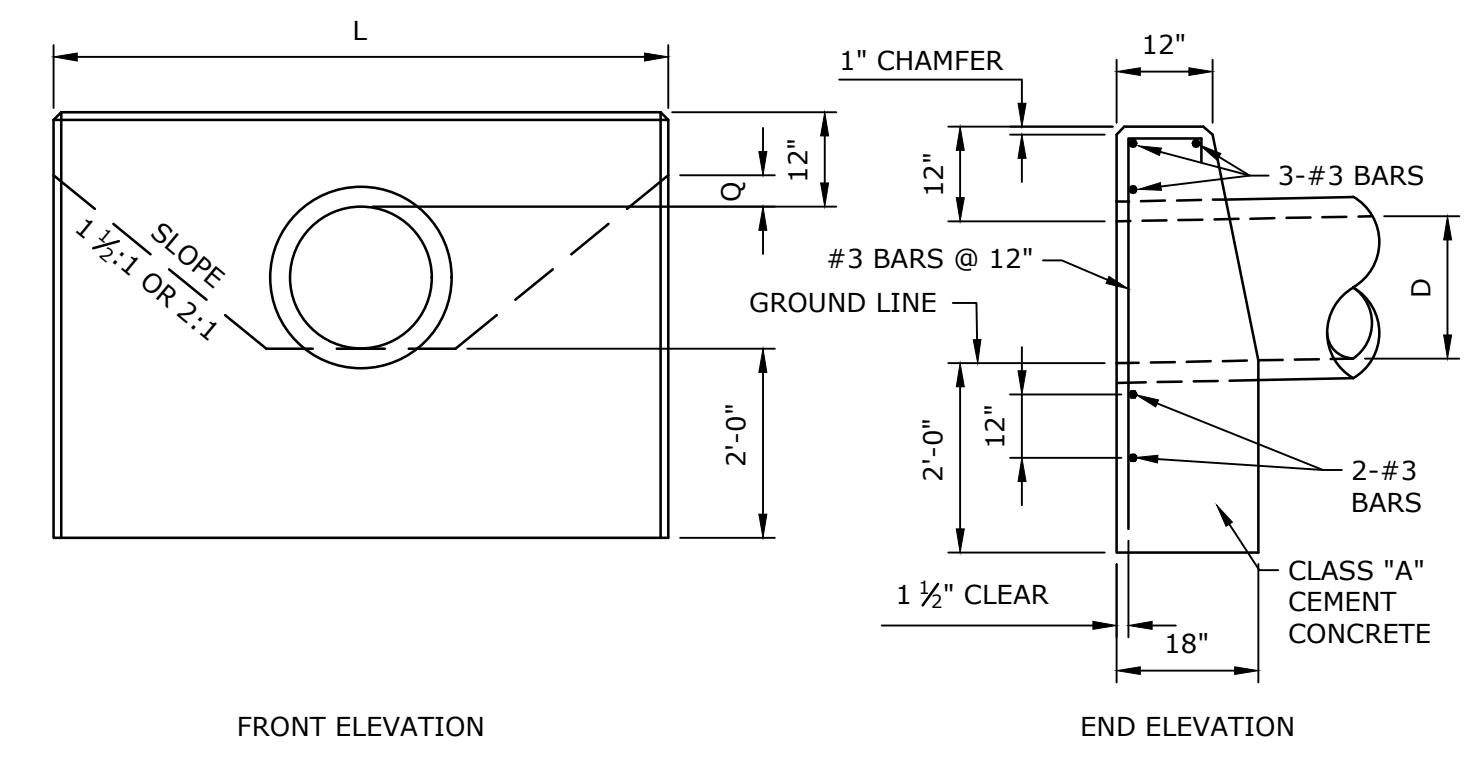
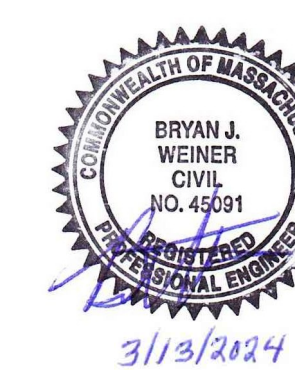
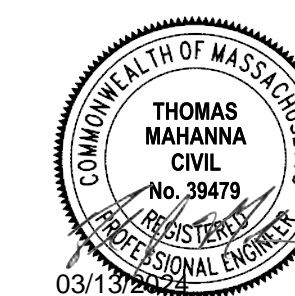
Foxborough, MA

MARK	DATE	DESCRIPTION
PROJECT NO:	F5008-004	
DATE:	12/29/2023	
FILE:	F5008-004-C-501-503	
DRAWN BY:	MJC	
DESIGNED/CHECKED BY:	MJC/BJW	
APPROVED BY:	CG	

CIVIL DETAILS - 2

SCALE: NO SCALE

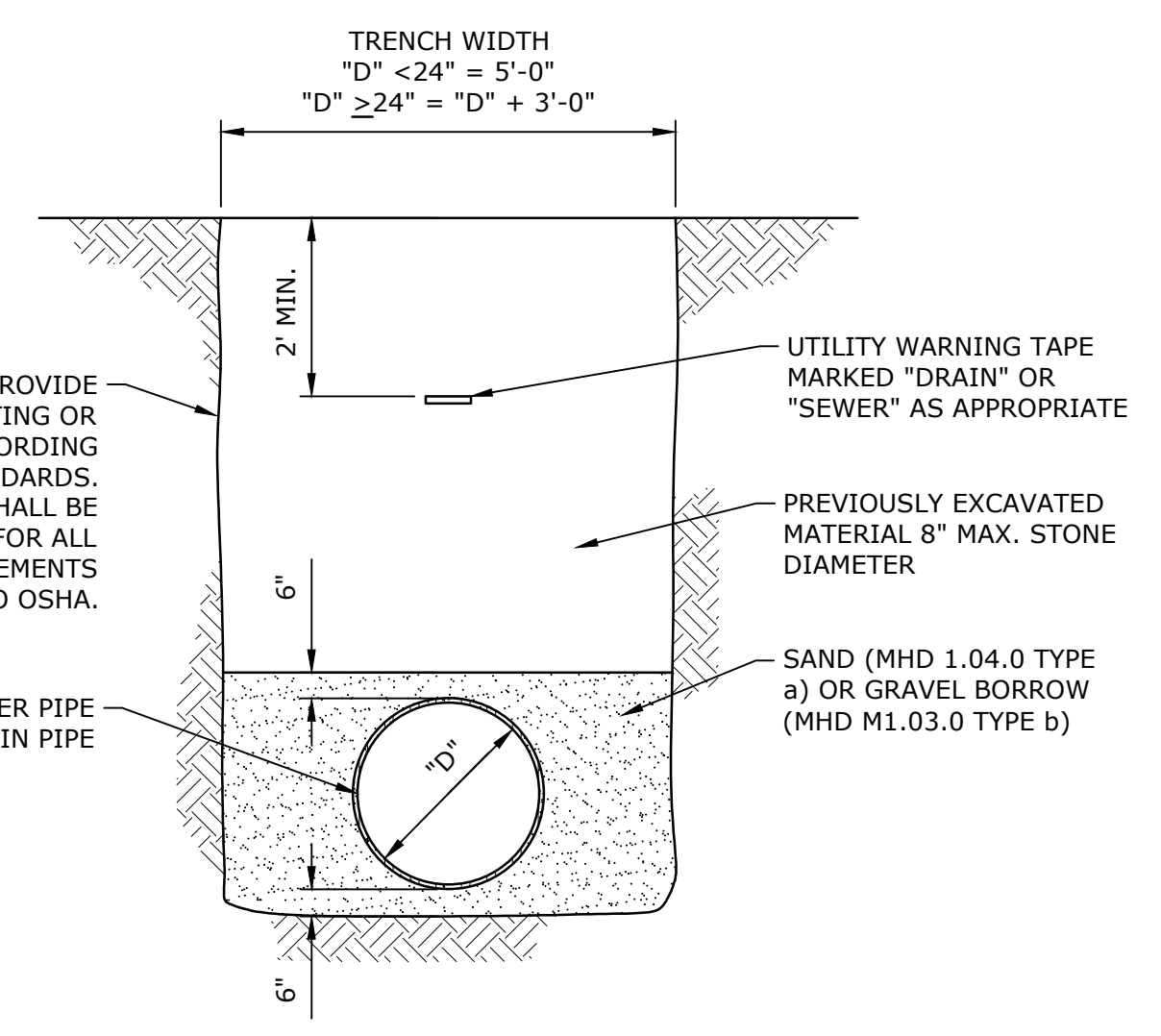
C-502
SHEET # OF #



PIPE DIAM.	1 1/2:1 SLOPE				2:1 SLOPE			
	D	L	CONC. OR F.S.M. CU. YDS.	STEEL LBS.	D	L	CONC. OR F.S.M. CU. YDS.	STEEL LBS.
8"	4'-2"	0.77	15	21.60	5'-10"	1.08	21	27.40
10"	4'-10"	0.92	20	23.91	6'-8"	1.28	23	30.35
12"	5'-6"	1.08	21	26.25	7'-6"	1.49	29	33.25
15"	6'-6"	1.34	24	29.75	8'-9"	1.82	32	37.63
18"	7'-6"	1.61	30	33.25	10'-0"	2.18	39	42.00
21"	8'-6"	1.95	34	37.35	11'-6"	2.62	43	47.25
24"	9'-3"	2.16	35	39.38	12'-6"	2.97	50	50.75
30"	10'-6"	2.63	44	43.75	15'-0"	3.86	62	59.50
Q	4" FOR 1 1/2:1 SLOPE				6" FOR 2:1 SLOPE			

HEADWALL DETAIL

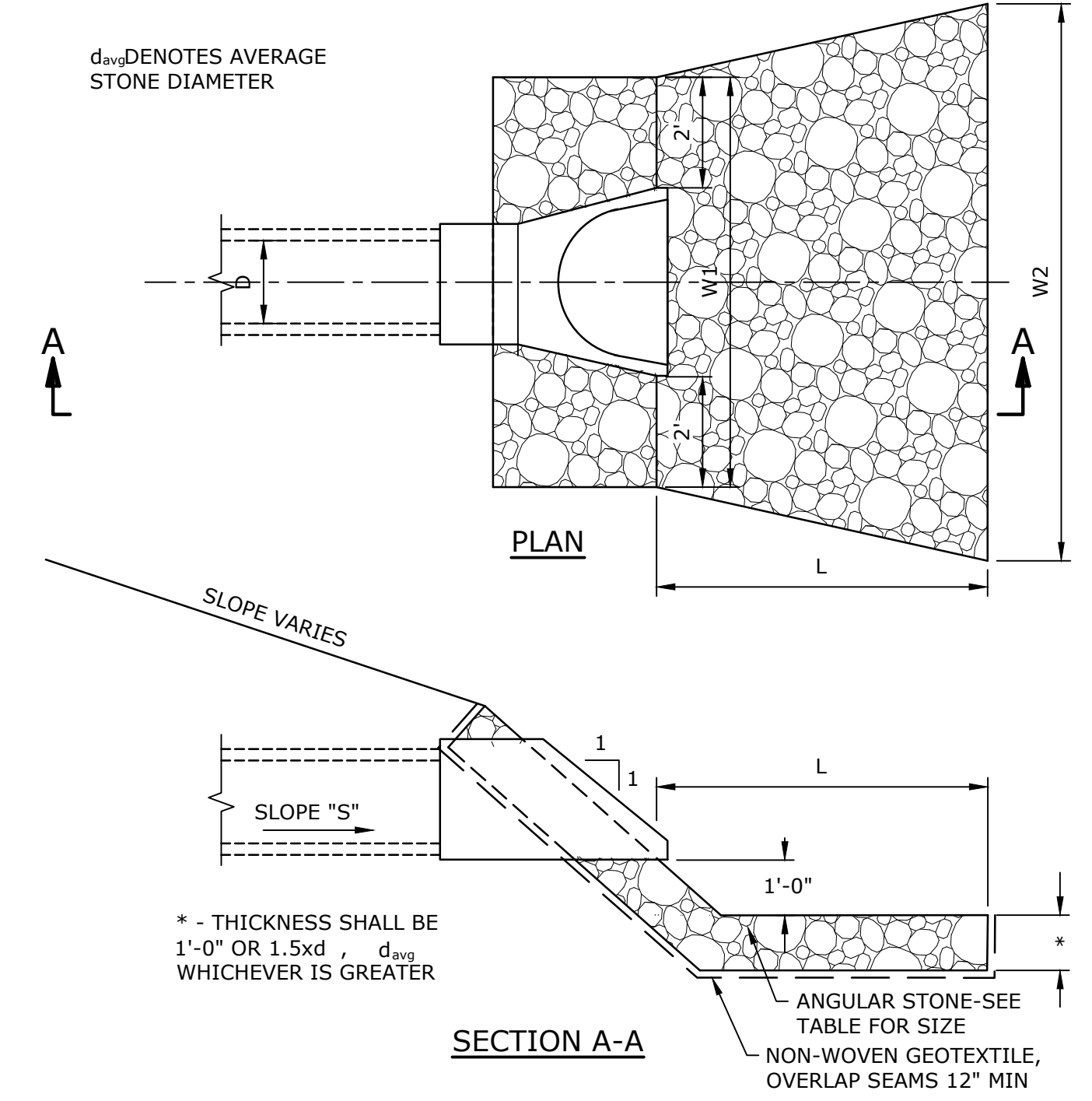
DETAIL	1
NO SCALE	C-102



TYPICAL DRAIN LINE AND SEWER TRENCH SECTION

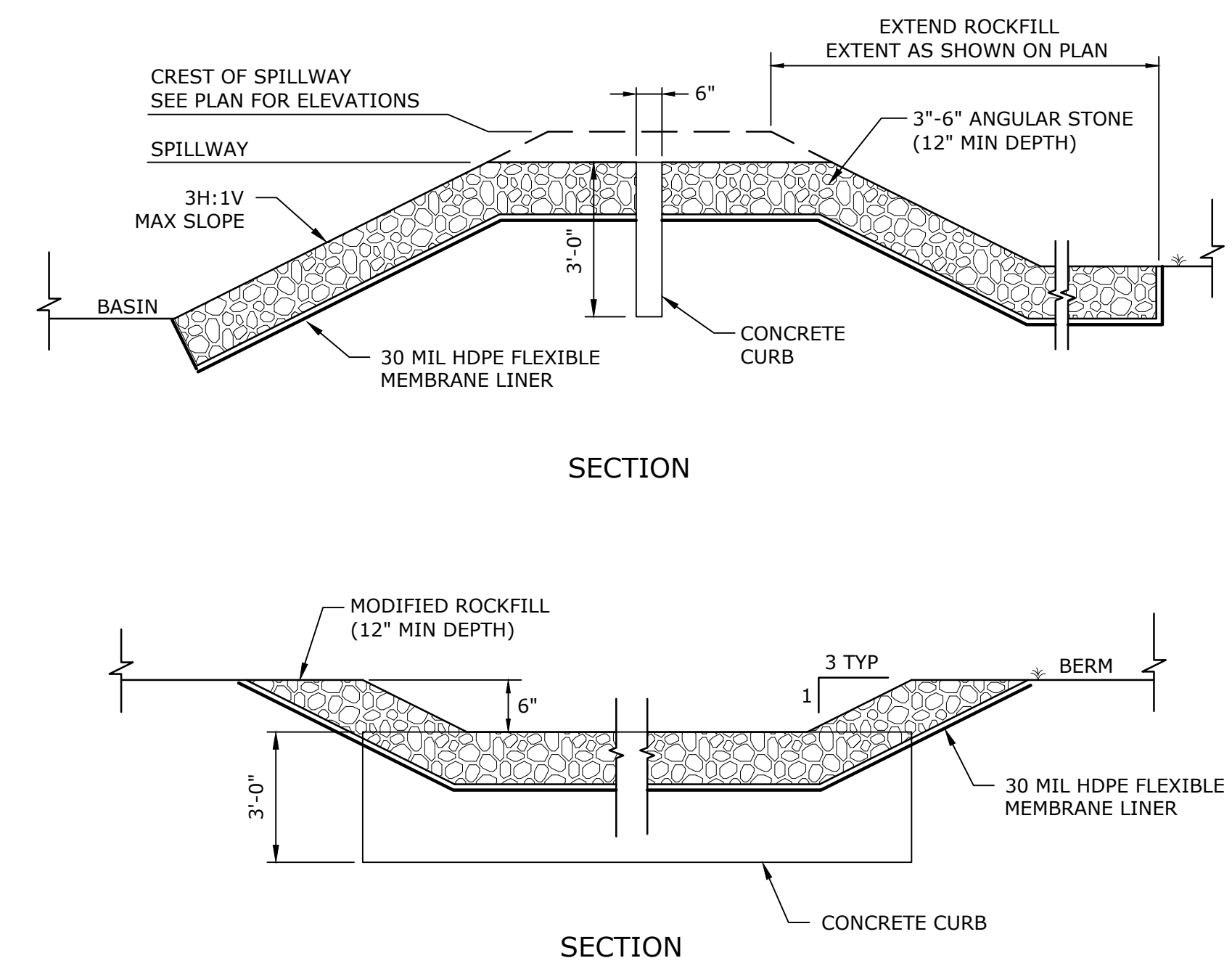
DETAIL	3
NO SCALE	C-102

DIMENSIONS FOR "S"=1.0%						DIMENSIONS FOR "S"=5.0%					
D	12"	15"	18"	21"	24"	D	12"	15"	18"	21"	24"
W1	6'	6'-6"	7'	7'-6"	8'	W1	6'	6'-6"	7'	7'-6"	8'
W2	6'	8'	10'	12'	14'	W2	14'	18'	18'	22'	26'
L	5'	5'	5'	6'-6"	8'-4"	L	8'	12'	12'	16'	20'
d _{avg}	3"	6"	6"	6"	6"	d _{avg}	6"	6"	8"	12"	12"



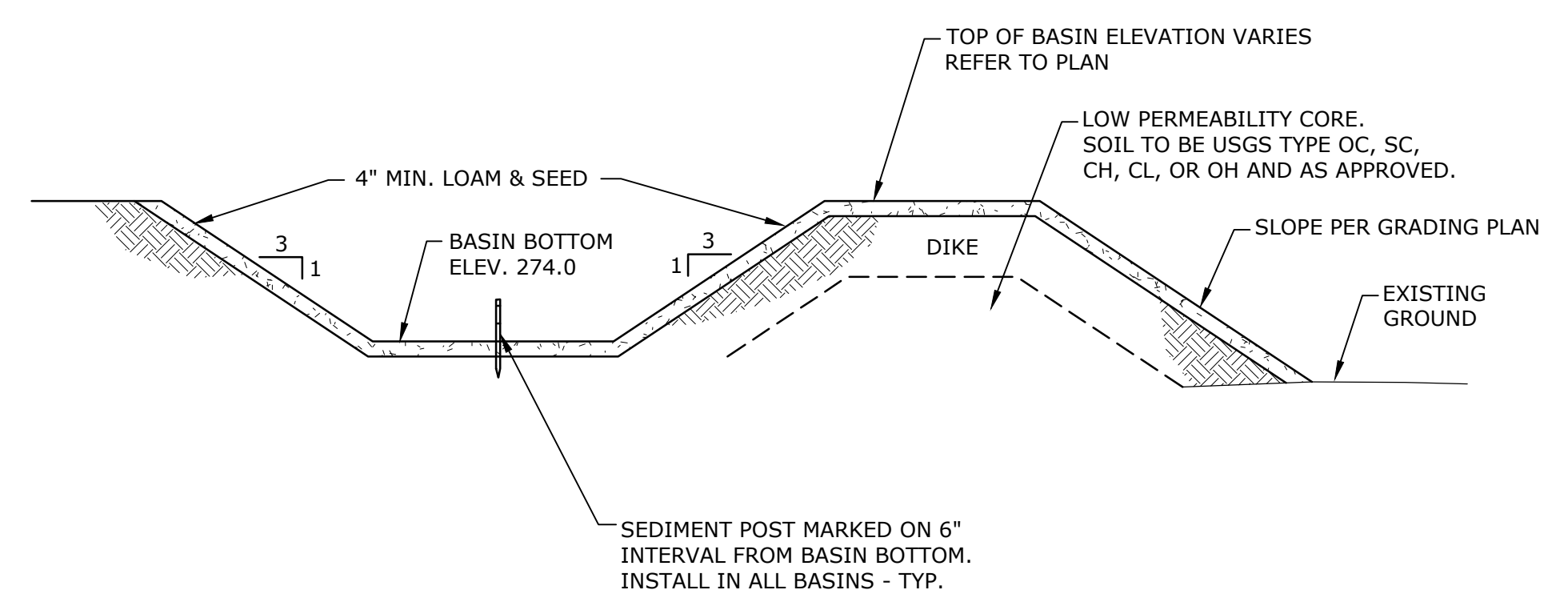
STONE OUTLET PROTECTION

DETAIL	5
NO SCALE	C-104



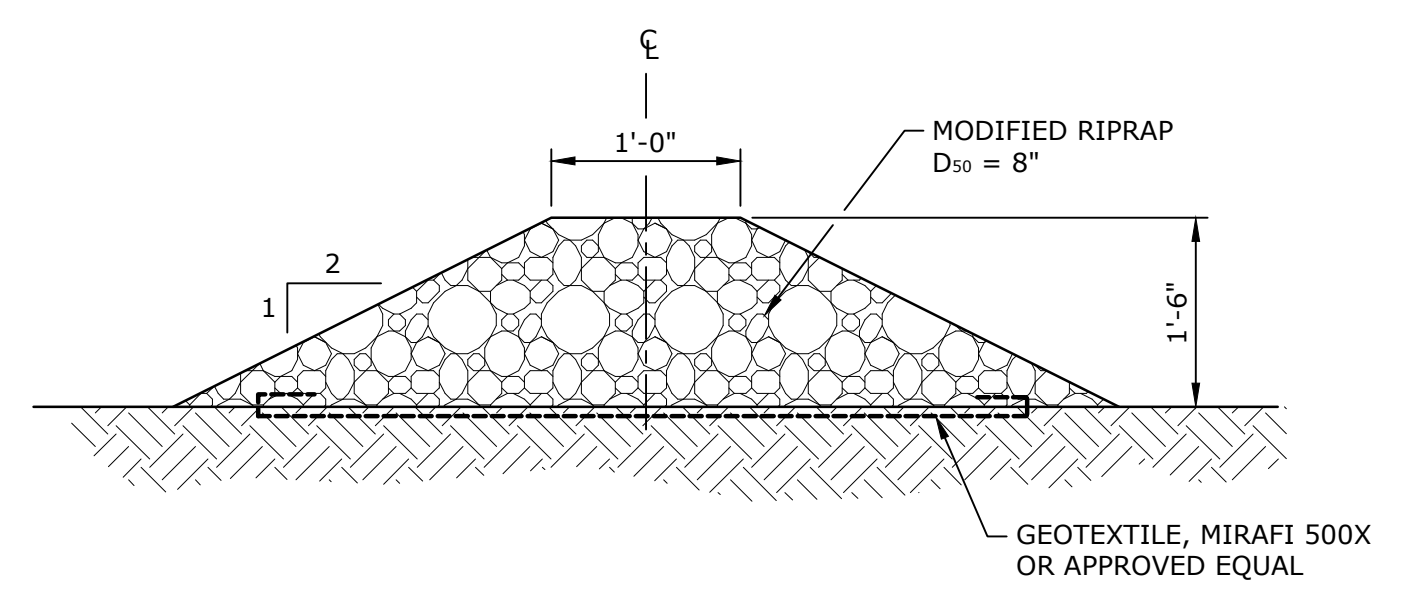
BASIN OVERFLOW SPILLWAY

DETAIL	2
NO SCALE	C-102



DETENTION BASIN BERM DETAIL

DETAIL	4
NO SCALE	C-102



RIPRAP FOREBAY BERM

DETAIL	6
NO SCALE	C-102

PERMITTING SET

NOT FOR CONSTRUCTION

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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

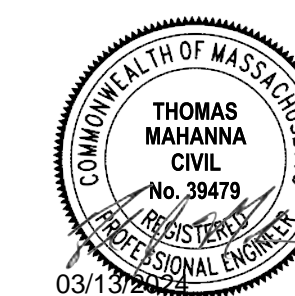
Foxborough, MA

MARK	DATE	DESCRIPTION
PROJECT NO:	F5008-004	
DATE:	12/29/2023	
FILE:	F5008-004-C-501-503	
DRAWN BY:	MJC	
DESIGNED/CHECKED BY:	MJC/BJW	
APPROVED BY:	CG	

CIVIL DETAILS - 3

SCALE: NO SCALE

C-503
SHEET # OF #



PERMITTING SET

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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

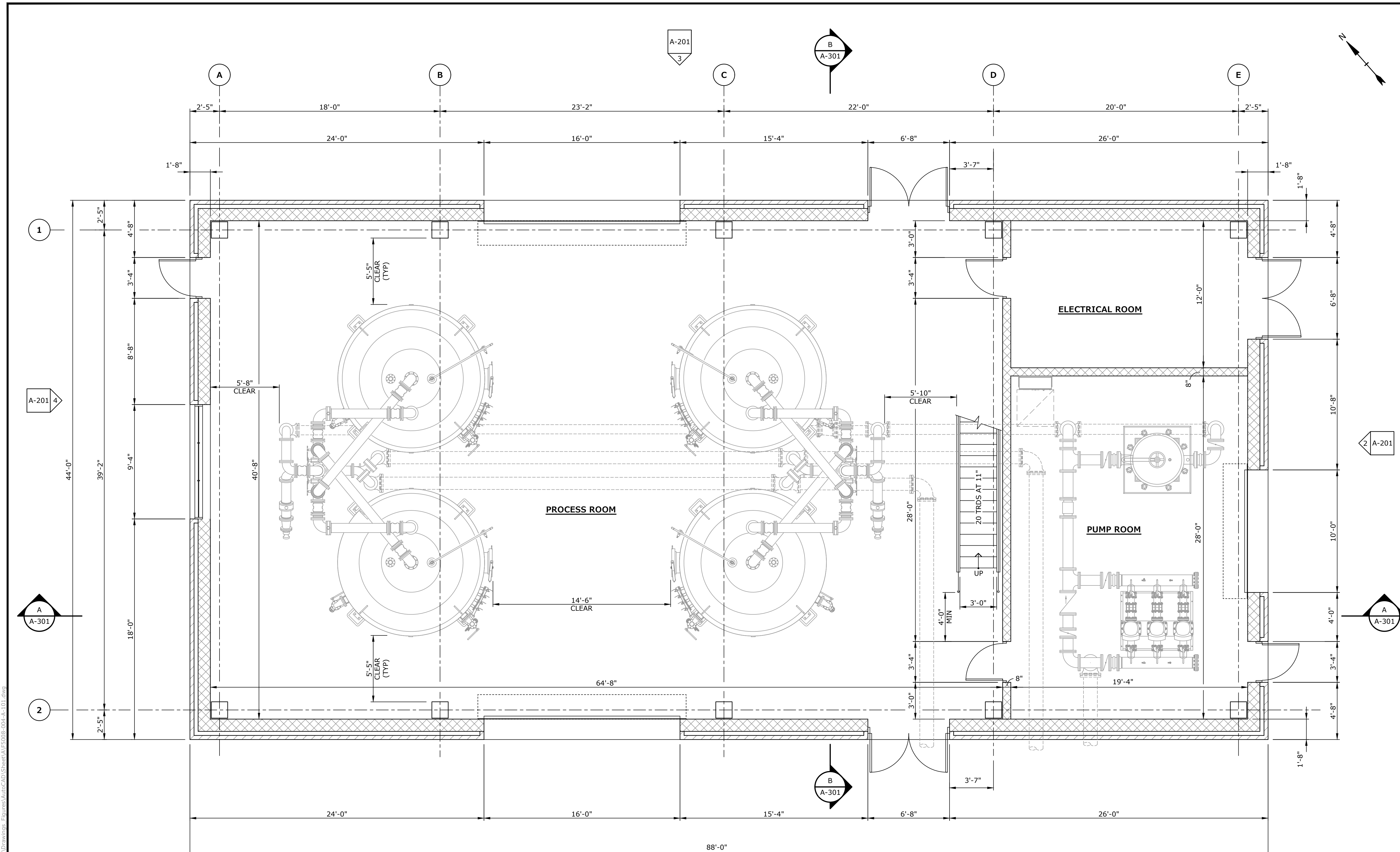
Foxborough, MA

MARK	DATE	DESCRIPTION
PROJECT NO:	F5008-004	
DATE:	12/29/2023	
FILE:	F5008-004-A-101	
DRAWN BY:	D.BISHOP	
DESIGNED/CHECKED BY:	MI/PNP	
APPROVED BY:	CG	

FIRST FLOOR PLAN

SCALE: AS SHOWN

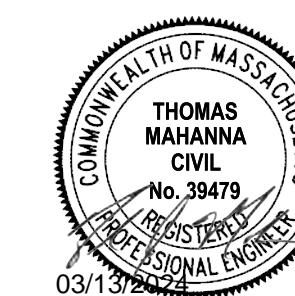
A-101



FIRST FLOOR PLAN
1/4" = 1'-0"



Last Saved: 3/11/2024 1:01:16pm By: MCurran
 Plotted On: Mar 13, 2024 10:15:08 AM
 Tighe & Bond \\\\F5008 Foxborough\004 PFAS Treatment Design\Drawings Figures\AutoCAD\Sheet\A\F5008_004-A-101.dwg



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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

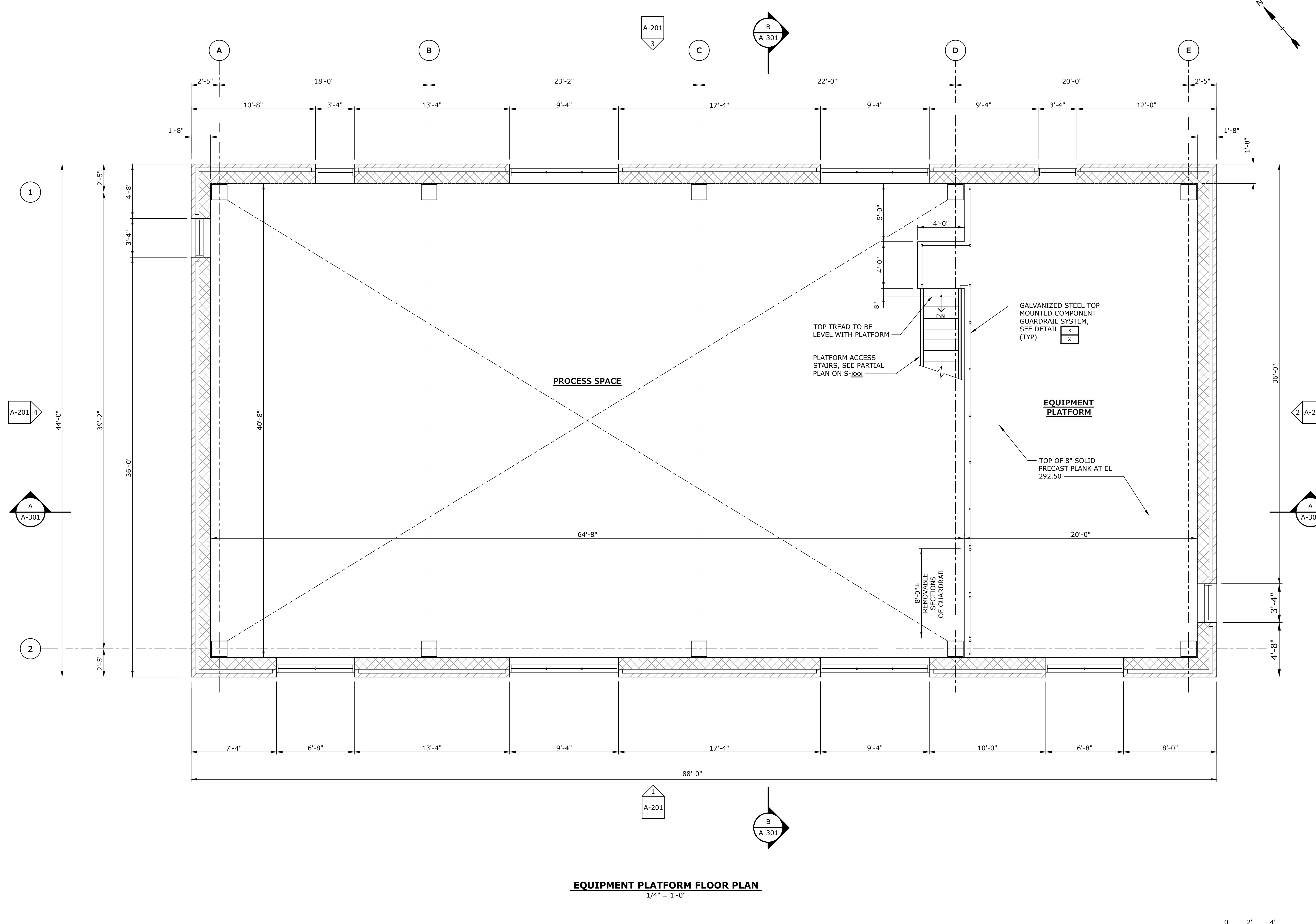
Foxborough, MA

MARK	DATE	DESCRIPTION
PROJECT NO:	F5008-004	
DATE:	12/29/2023	
FILE:	F5008-004-A-102	
DRAWN BY:	D.BISHOP	
DESIGNED/CHECKED BY:	MJ/PNP	
APPROVED BY:	CG	

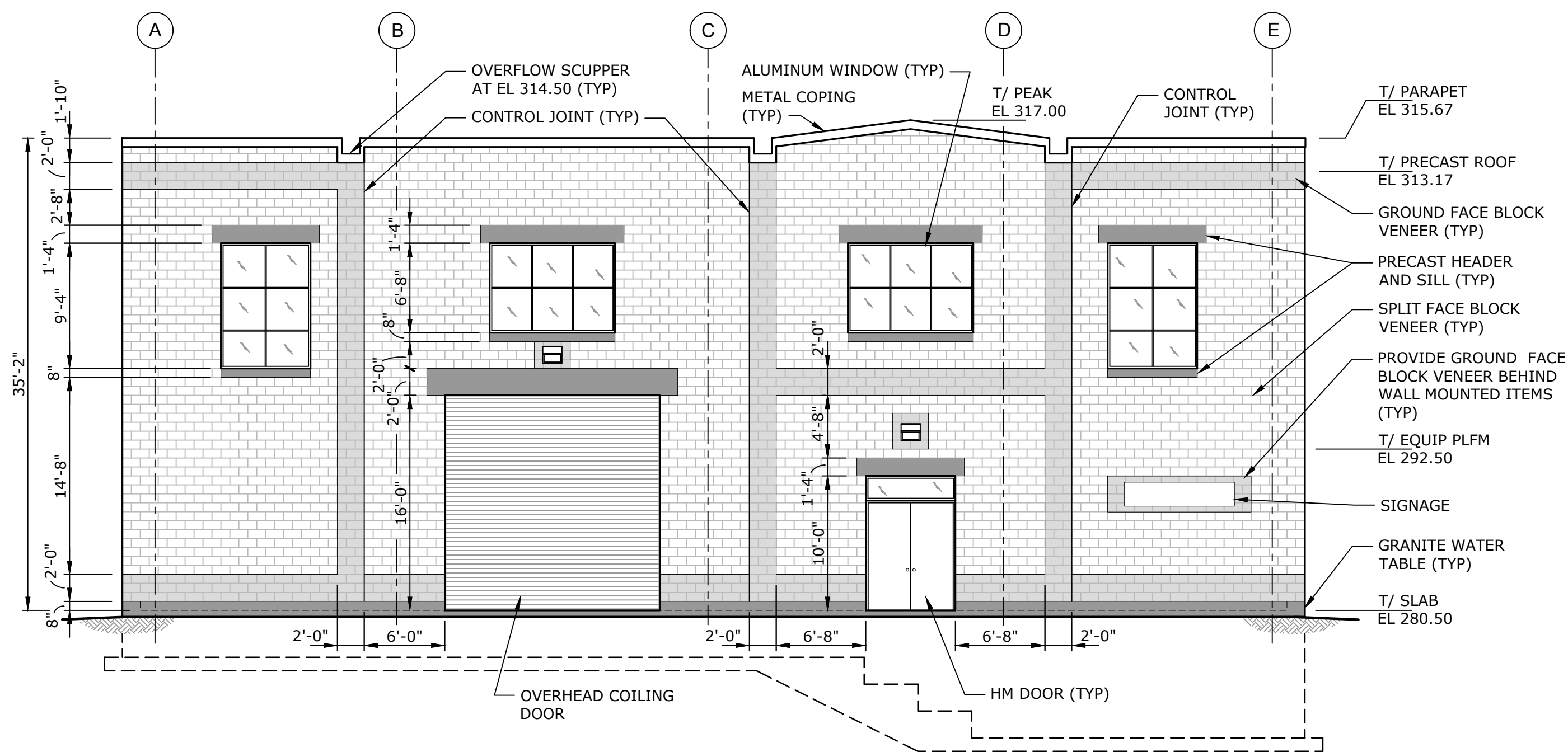
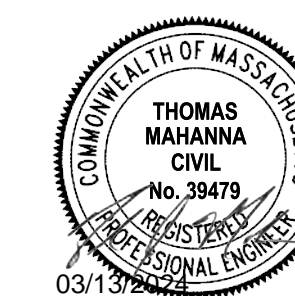
EQUIPMENT PLATFORM FLOOR PLAN

SCALE: AS SHOWN

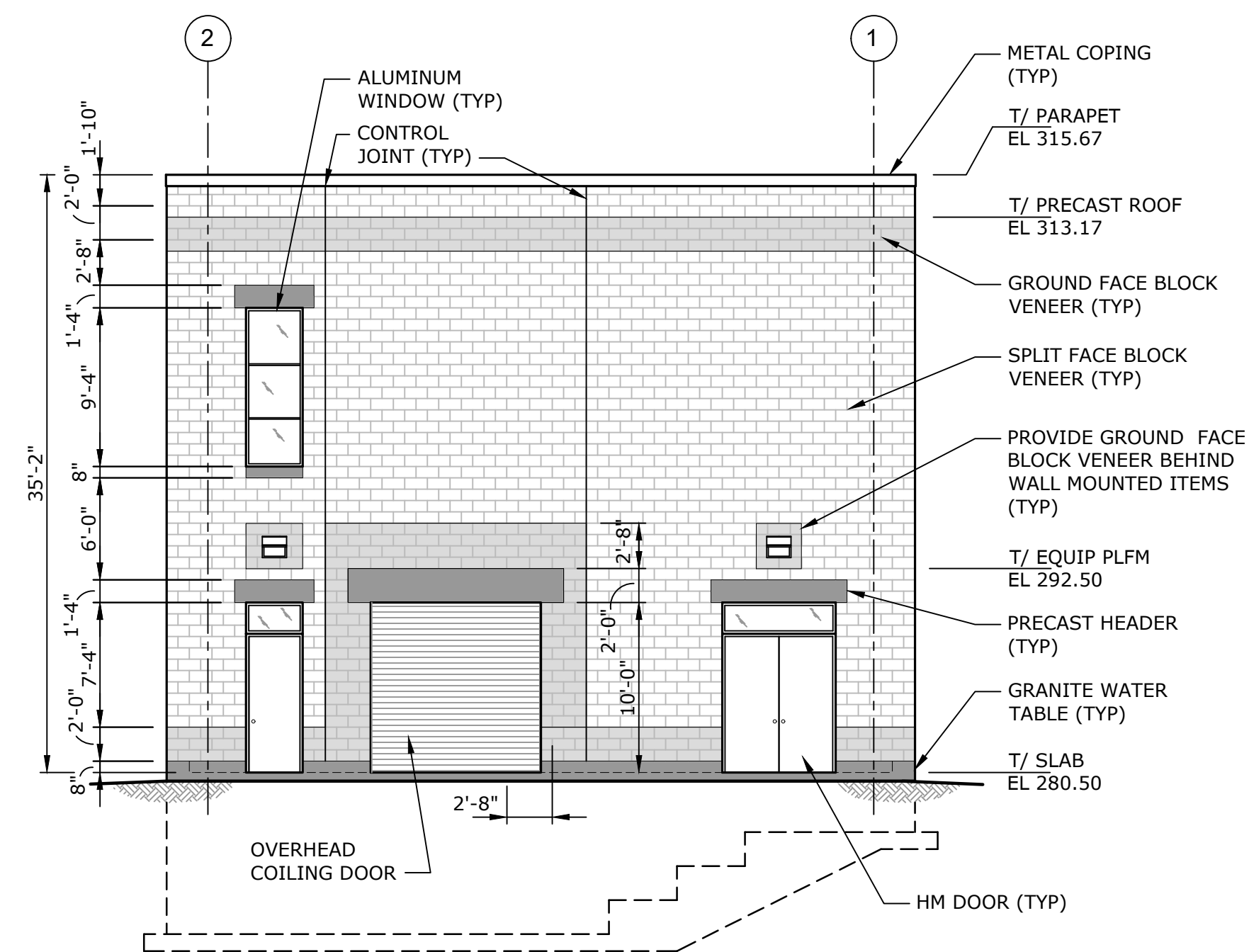
A-102



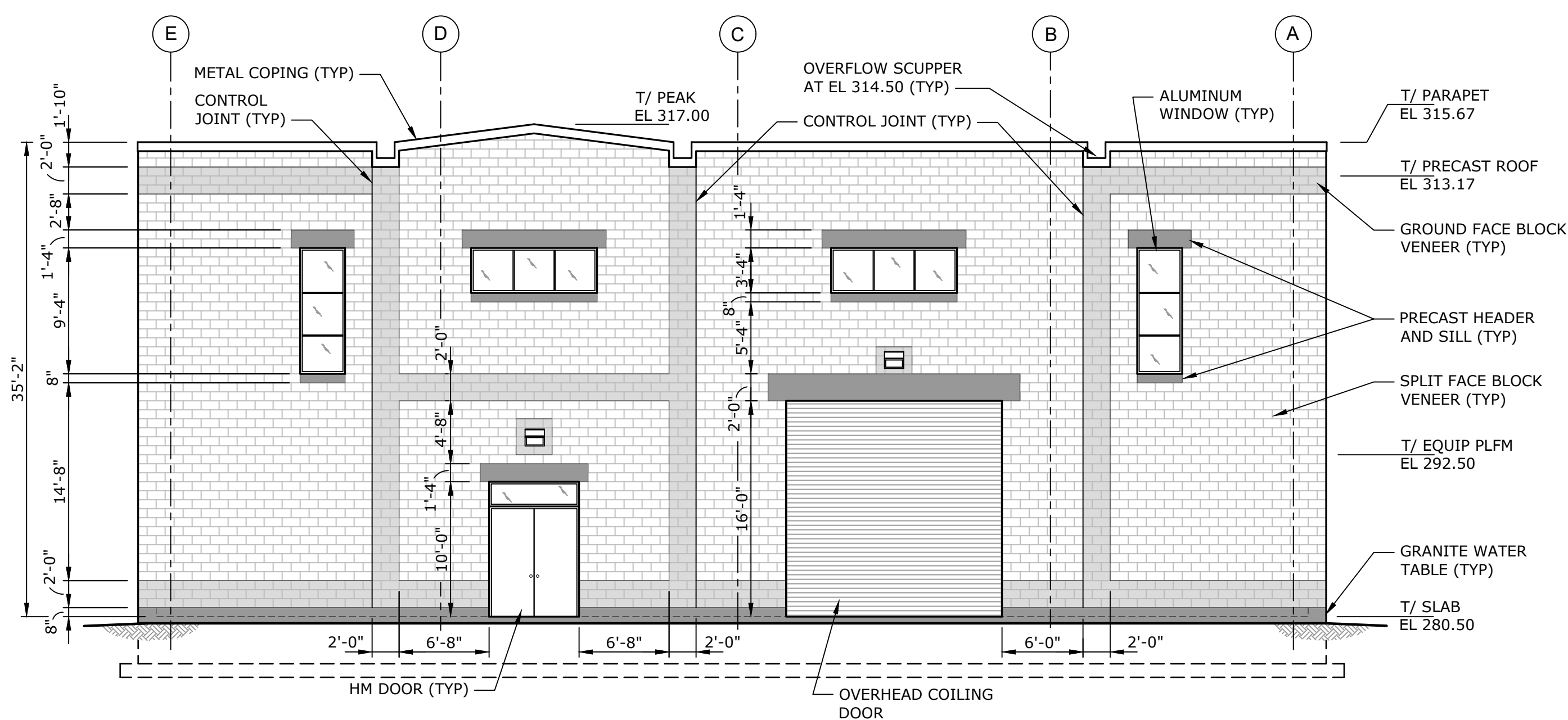
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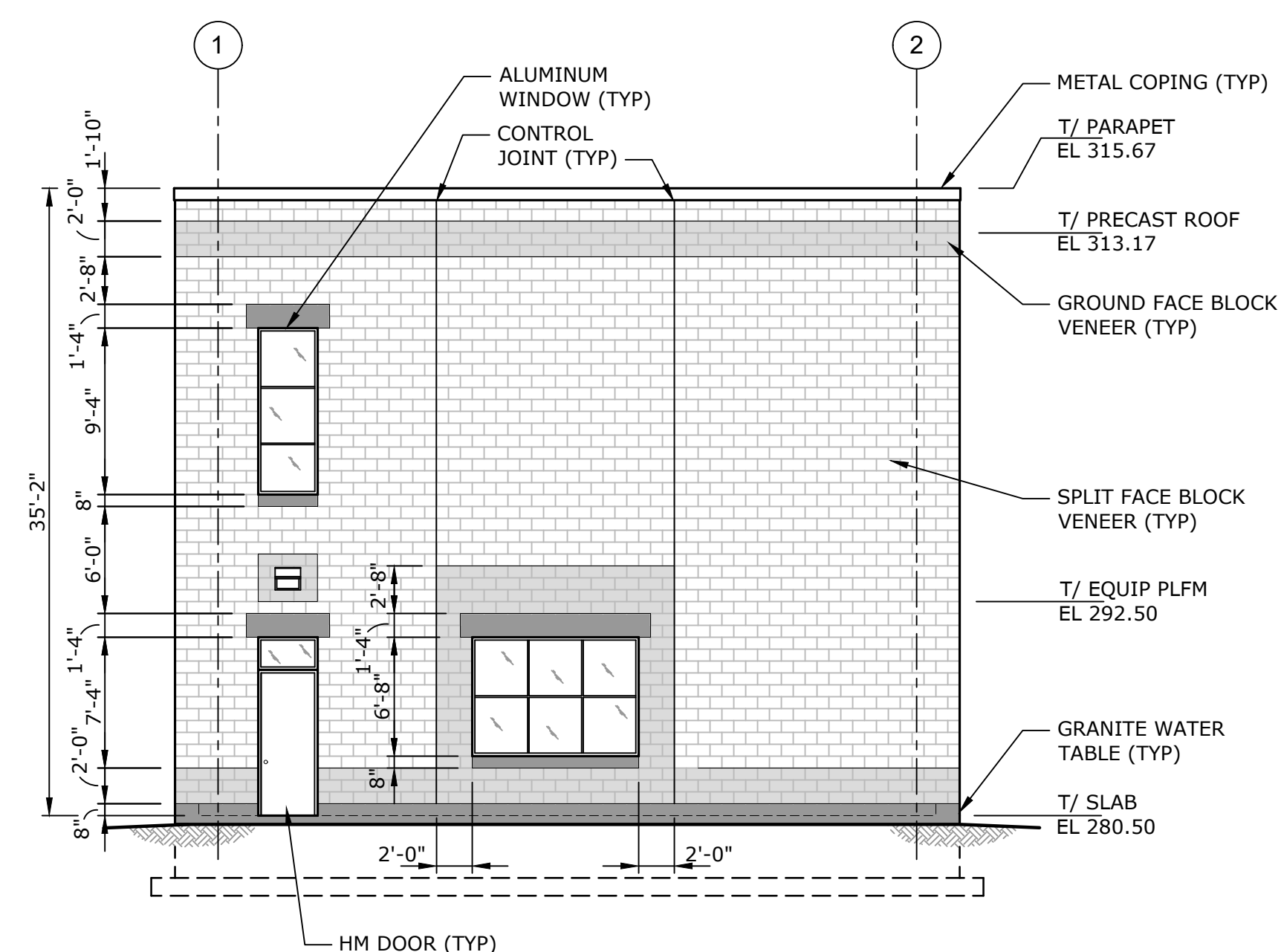
SOUTH ELEVATION
1/8" = 1'-0"



EAST ELEVATION
1/8" = 1'-0"



NORTH ELEVATION
1/8" = 1'-0"



WEST ELEVATION
1/8" = 1'-0"

PERMITTING SET

NOT FOR CONSTRUCTION

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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

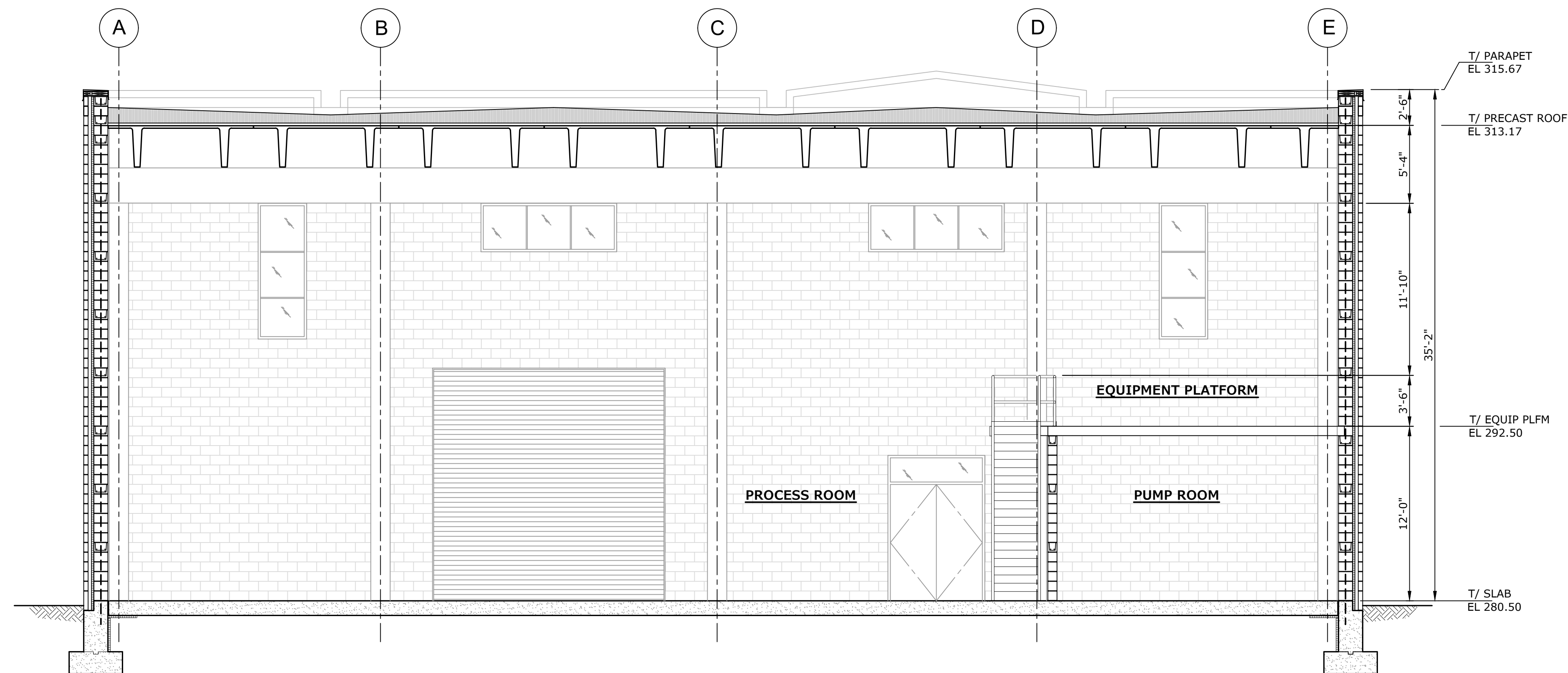
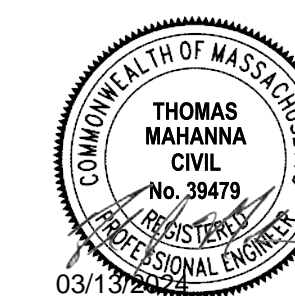
Foxborough, MA

MARK	DATE	DESCRIPTION
PROJECT NO:	F5008-004	
DATE:	12/29/2023	
FILE:	F5008-004-A-201	
DRAWN BY:	D.BISHOP	
DESIGNED/CHECKED BY:	MI/PNP	
APPROVED BY:	CG	

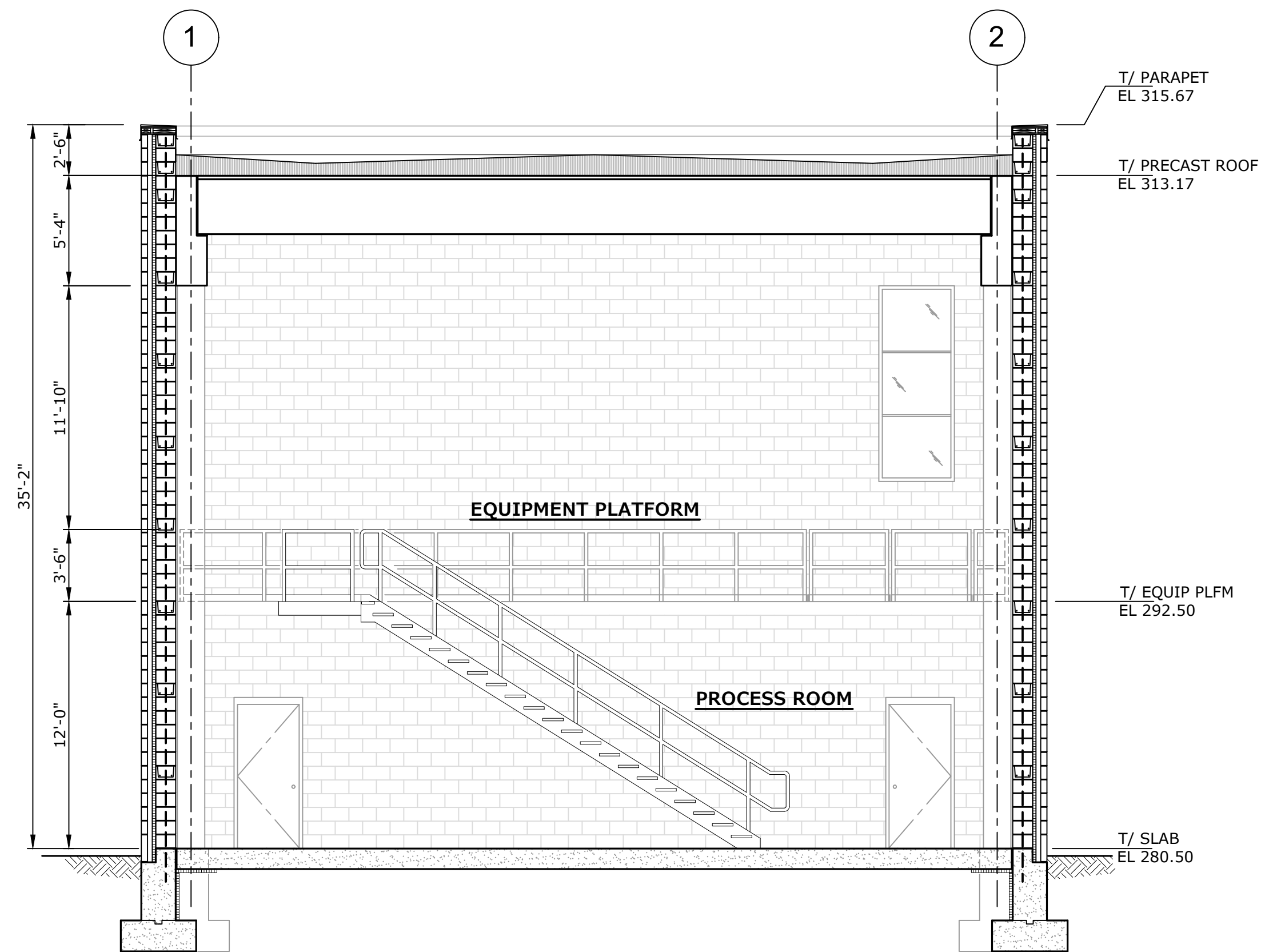
BUILDING ELEVATIONS

SCALE: AS SHOWN

Last Saved: 3/12/2024 10:17:17 AM
 Plotted On: Mar 13, 2024 10:17:17 AM
 Tighe & Bond 23\F5008\Foxborough\004 PFAS Treatment Design\Drawings - Figures\AutoCAD\Sheets\A1\F5008-004-A-201.dwg



SECTION A
3/16" = 1'-0"
A-101



SECTION B
3/16" = 1'-0"
A-101

PERMITTING SET

NOT FOR CONSTRUCTION

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Chestnut St. PFAS Water Treatment Plant

Town of Foxborough

Foxborough, MA

MARK	DATE	DESCRIPTION
PROJECT NO:	F5008-004	
DATE:	12/29/2023	
FILE:	F5008-004-A-301	
DRAWN BY:	D.BISHOP	
DESIGNED/CHECKED BY:	MI/PNP	
APPROVED BY:	CG	

BUILDING SECTIONS

SCALE: AS SHOWN

A-301