

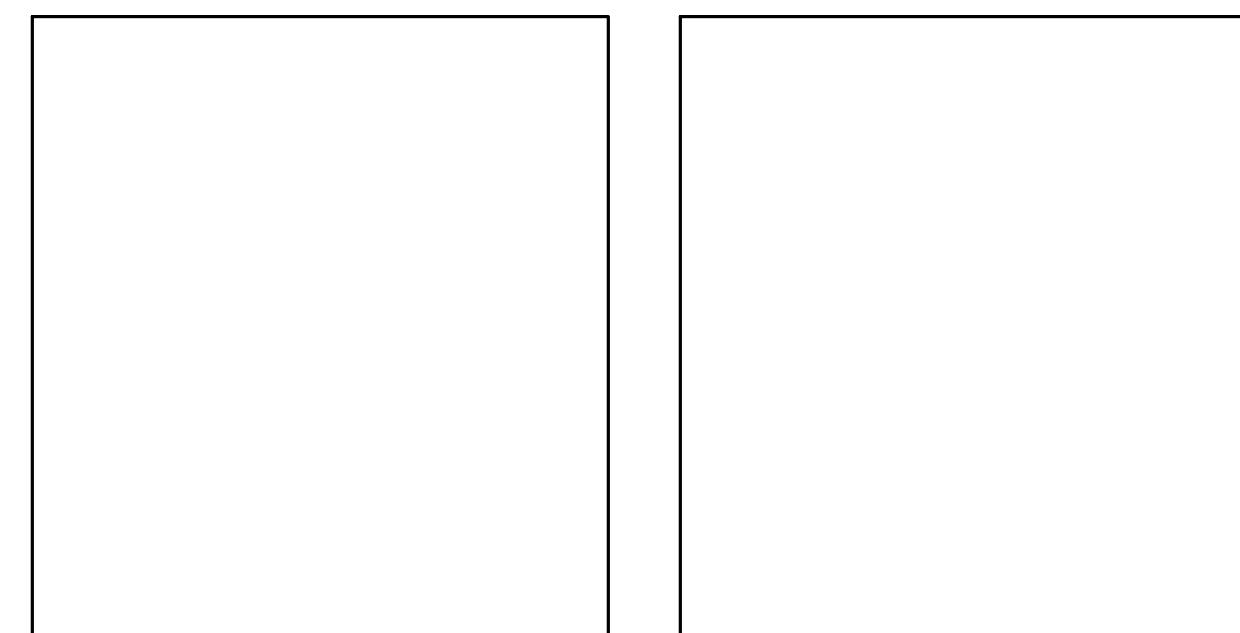
TOWN OF WEBSTER, MASSACHUSETTS MEMORIAL BEACH PFAS WATER TREATMENT PLANT DWSRF PROJECT NO. 10380

PERMIT SET SEPTEMBER 2023

LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
GENERAL		
1	G-001	COVER SHEET
2	G-002	GENERAL NOTES AND LEGEND
CIVIL		
3	C-101	EXISTING CONDITIONS WTP PLAN
4	C-102	EROSION CONTROL AND SITE DEMOLITION PLAN
5	C-103	SITE LAYOUT AND MATERIALS PLAN
6	C-104	SITE GRADING AND DRAINAGE PLAN
7	C-105	SITE UTILITY PLAN - 1
8	C-106	SITE UTILITY PLAN - 2
9	C-501	CIVIL DETAILS - 1
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11	C-503	CIVIL DETAILS - 3
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14	C-506	WELL 2A DETAILS
ARCHITECTURAL		
15	A-101	FIRST FLOOR PLAN
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17	A-202	BUILDING ELEVATIONS
18	A-301	BUILDING SECTIONS
ELECTRICAL		
19	E-201	ELECTRICAL LIGHTING PLAN - WTP



PREPARED BY:
Tighe&Bond



TOWN ADMINISTRATOR
RICHARD LAFOND

BOARD OF SELECTMEN
EARL GABOR, CHAIRMAN
TOM KLEBART, VICE-CHAIRMAN
RANDY BECKER, SECRETARY
LISA KONTOS, SELECTMAN
MARK ROGERS, SELECTMAN

WATER SUPERINTENDENT
THOMAS CUTLER

WATER COMMISSIONERS
TOM ANDRADE, CHAIRMAN
EARL GABOR, VICE-CHAIRMAN
MARC BECKER, MEMBER
DAN DUTEAU, MEMBER

NOT FOR CONSTRUCTION

COMPLETE SET 19 SHEETS

LEGEND

DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE	-----	-----
LIMITS OF WORK	-----	-----
INTERMEDIATE CONTOURS	----- 25 X 141.2	----- 25 + 32.0 0.0%
SPOT GRADE	-----	-----
MAGNITUDE & DIRECTION OF SLOPE	-----	-----
STORM DRAIN	SD SD	SD
GRAVITY SANITARY SEWER	SS SS	SS
SANITARY SEWER FORCE MAIN	SFM	SFM
WATER SERVICE	W W	W
POTABLE WATER	PW	PW
RAW WATER	RW	RW
UNDERGROUND ELECTRIC	E E	E
GAS SERVICE	G G	G
OVERHEAD UTILITY	OHW OHW	OHW
CURB	-----	-----
EDGE OF PAVEMENT	-----	-----
DIRT ROAD	-----	-----
STONE WALL	-----	-----
FENCE	-----	-----
STORM DRAIN STRUCTURES	MANHOLE (●) S CATCH BASIN (CB)	MANHOLE (●) CATCH BASIN (CB)
SANITARY SEWER MANHOLE	○	○
WATER SERVICE STRUCTURES	HYDRANT (●) MANHOLE (●) VALVE (●)	HYDRANT (●) MANHOLE (●) VALVE (●)
GAS SERVICE STRUCTURES	MANHOLE (●) VALVE (●) GG	MANHOLE (●) VALVE (●) GG
ELECTRIC SERVICE STRUCTURES	MANHOLE (●) LIGHT (●)	MANHOLE (●) LIGHT (●)
TREELINE	-----	-----
25-FOOT BUFFER TO WETLAND	-----	-----
50-FOOT BUFFER TO WETLAND	-----	-----
100-FOOT BUFFER TO WETLAND	-----	-----

DEMOLITION / GEOTECHNICAL	
EROSION & SEDIMENT CONTROL	
UTILITY TO BE ABANDONED	
UTILITY TO BE DEMOLISHED	
ITEM TO BE DEMOLISHED	
TEST PIT	
MONITORING WELL	
BORING	

EROSION CONTROL AND RESOURCE AREA PROTECTION NOTES

1. 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.
2. 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.
3. INSTALL SILT SACKS OR OTHER APPROVED SEDIMENTATION BARRIERS IN/AT ALL CATCH BASINS IN THE PROJECT AREA.
4. COMPACT, STABILIZE, AND LOAM 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.
5. 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.
6. SWEEP, COLLECT, REMOVE AND DISPOSE OF ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.
7. LOAM AND SEED ALL DISTURBED VEGETATED AREAS TO ESTABLISH COVER AND STABILIZATION AS SOON AS POSSIBLE FOLLOWING DISTURBANCE.
8. MAINTAIN AN ADDITIONAL SUPPLY OF EROSION CONTROL MEASURES ON-SITE FOR EMERGENCY REPAIRS.
9. 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.

SURFACE RESTORATION NOTES

1. ALL PAVEMENT DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. PROVIDE SITE GRADING AT HANDICAPPED 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%
3. 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.
4. 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.
5. 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.
6. REPAIR DISTURBED PAVED SURFACES AT THE END OF EACH WORK WEEK, UNLESS OTHERWISE APPROVED/REQUIRED BY THE OWNER.
7. 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.
8. RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE PAYLINE LIMITS TO ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
9. 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.
10. PROVIDE A SMOOTH, FLUSH TRANSITION BETWEEN ALL NEW AND EXISTING PAVEMENTS AND WALKING SURFACES.

ABBREVIATIONS

ABBREVIATIONS		ABBREVIATIONS CONT'D	
ABDN'(D)	ABANDON(ED)	N	NORTH
AC	ASBESTOS CEMENT PIPE	NITC	NOT IN THIS CONTRACT
BC	BUTMINOUS CURB	NTS	NOT TO SCALE
BFP	BACK FLOW PREVENTOR	N/A	NOT APPLICABLE
BIT	BUTMINOUS	N/F	NOW OR FORMERLY
BL	BASELINE	OC	ON CENTER
BLDG	BUILDING	OCS	OUTLET CONTROL STRUCTURE
BLSF	BORDERING LANDS SUBJECT TO FLOODING	OH	OVERHEAD
BND	BOUND	PB	PLANT BED
BOC	BOTTOM OF CURB	PC	POINT OF CURVATURE
BOT	BOTTOM	PCC	POINT OF COMPOUND
BS	BOTTOM OF STEP	PCPP	CURVATURE
BW	BOTTOM OF WALL	PERF	PERFORATED CORRUGATED
CATV	CABLE TELEVISION	PERFORATED	POLYETHYLENE PIPE
CB	CATCH BASIN	PI	POINT OF INTERSECTION
CEM	CEMENT	PRC	POINT OF REVERSE CURVATURE
CI	CAST IRON PIPE	PSF	POUNDS PER SQUARE FOOT
CL	CENTERLINE	PSI	POUNDS PER SQUARE INCH
CLF	CHAIN LINK FENCE	PT	POINT OF TANGENCY
CO	CLEAN OUT	PVC	POLYVINYLCHLORIDE
CONC	CONCRETE	PVMT	PAVEMENT
CPP	CORRUGATED	R	RADIUS
		RCP	REINFORCED CONCRETE PIPE
CY	CUBIC YARD	RD	ROOF DRAIN
DH	DRILL HOLE	REV	REVISION
DI	DUCTILE IRON PIPE	ROW	RIGHT OF WAY
DIA	DIAMETER	RT	RIGHT
DMH	DRAIN MANHOLE	R&D	REMOVE AND DISPOSE
E	EAST	R&R	REMOVE AND RESET
EF	EACH FACE	R&S	REMOVE AND STACK
EG	EXISTING GRADE	S	SOUTH
EL/ELEV	ELEVATION	SAN	SANITARY
ELEC	ELC	SCH	SCHEDULE
EMH	ELECTRIC MANHOLE	SF	SQUARE FOOT
EOP	EDGE OF PAVEMENT	SMH	SEWER MANHOLE
EW	EACH WAY	SS	STAINLESS STEEL
EXIST	EXISTING	STA	STATION
FES	FLARED END SECTION	STL	STEEL
FF	FINISH FLOOR	STRM	STORM
FM	FORCE MAIN	T	TANGENT LENGTH
G	GAS	TC	TOP OF CURB
GG	GAS GATE	TEL-DATA	TEST PIT
GRAN	GRANITE	TP	TOP OF STEP
HC	HANDICAP	TS	TOP OF WALL
HDPE	HIGH DENSITY POLYETHYLENE	TW	TYPICAL
HMA	HOT MIX ASPHALT	UP	UTILITY POLE
HYD	HYDRANT	W	WATER
IN	INCHES	WG	WATER GATE
INV	INVERT	WV	WATER VALVE
IP	IRON PIN	XFMR	TRANSFORMER
L	LENGTH OF CURB		
LP	LIGHT POLE		
LT	LEFT		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MON	MONUMENT		
MJ	MECHANICAL JOINT		

BASE PLAN NOTES

1. THE EXISTING CONDITIONS INFORMATION SHOWN ON THE DRAWINGS IS BASED ON THE FOLLOWING:
 - SURVEY DRAWINGS PROVIDED BY WSP USA, INC., TITLED "SITE LAYOUT PLAN, PUMPING STATION ROAD, WEBSTER, MASSACHUSETTS" AND DATED JANUARY 17, 2023
2. UTILITY LOCATIONS SHOWN WERE PLOTTED FROM INFORMATION SUPPLIED BY RESPECTIVE UTILITY COMPANIES AND DATA OBTAINED FROM FIELD SURVEYS AND AS BUILT DRAWINGS. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS IS NOT GUARANTEED. DETERMINE THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH MAY AFFECT CONSTRUCTION OPERATIONS.
3. SUB-SURFACE EXPLORATIONS WERE PERFORMED BY GEOFSEARCH, INC. ON MAY 1 AND 2, 2023. 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.
4. SOIL EVALUATIONS WERE PERFORMED IN THE AREAS OF THE PROPOSED STORMWATER MANAGEMENT SYSTEMS BY TIMOTHY J. GRACE ON APRIL 21, 2023. TEST PIT LOCATIONS ARE SHOWN ON THE SITE PLANS.
5. THE DRAWINGS ARE BASED ON THE FOLLOWING DATUMS: HORIZONTAL NAD83; VERTICAL NAVD88
6. THE EXISTING CONDITIONS SHOWN ARE APPROXIMATE. FIELD VERIFY EXISTING CONDITIONS.

GENERAL NOTES

1. NOTIFY DIGSAFE AT 1-888-344-7233 AND OTHER UTILITY OWNERS IN THE AREA NOT ON THE DIGSAFE LIST AT LEAST 72 HOURS PRIOR TO ANY DIGGING, TRENCHING, ROCK REMOVAL, DEMOLITION, BORING, BACKFILLING, GRADING, LANDSCAPING, OR ANY OTHER EARTH MOVING OPERATIONS.
2. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IN ADDITION, SOME UTILITIES MAY NOT BE SHOWN. DETERMINE THE EXACT LOCATION OF UTILITIES BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND/OR INTERRUPTIONS IN UTILITY SERVICE. PERFORM TEST PIT EXCAVATIONS AND OTHER INVESTIGATIONS TO LOCATE UTILITIES, AND PROVIDE THIS INFORMATION TO THE ENGINEER, PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS. LOCATE ALL EXISTING UTILITIES TO BE CROSSED BY HAND EXCAVATION.
3. NOT ALL OF THE UTILITY SERVICES TO BUILDINGS ARE SHOWN. THE CONTRACTOR SHALL ANTICIPATE THAT EACH PROPERTY HAS SERVICE CONNECTIONS FOR THE VARIOUS UTILITIES.
4. BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
5. TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES, LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM TIGHE & BOND.
6. EXCAVATE ADDITIONAL TEST PITS TO LOCATE EXISTING UTILITIES AS DIRECTED OR APPROVED BY THE ENGINEER.
7. NOTIFY THE ENGINEER OF ANY UTILITIES IDENTIFIED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE DRAWINGS OR THAT DIFFER IN SIZE OR MATERIAL.
8. 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.
9. 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.
10. SHORE UTILITY TRENCHES WHERE FIELD CONDITIONS DICTATE AND/OR WHERE REQUIRED BY LOCAL, STATE AND FEDERAL HEALTH AND SAFETY CODES.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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 DAY'S WORK.
16. 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.
17. 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.
18. MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
19. 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.
20. REMOVE AND DISPOSE OF ALL CONSTRUCTION-RELATED WASTE MATERIALS AND DEBRIS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
21. THE TERM "DEMOLISH" USED ON THE DRAWINGS MEANS TO REMOVE AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
22. 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.
23. ALL PROPOSED WORK MAY BE ADJUSTED IN THE FIELD BY THE OWNER'S PROJECT REPRESENTATIVE TO MEET EXISTING CONDITIONS.

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**MEMORIAL
BEACH PFAS
WTP**

Webster, MA

GENERAL NOTES
AND LEGEND

SCALE: NONE

G-002

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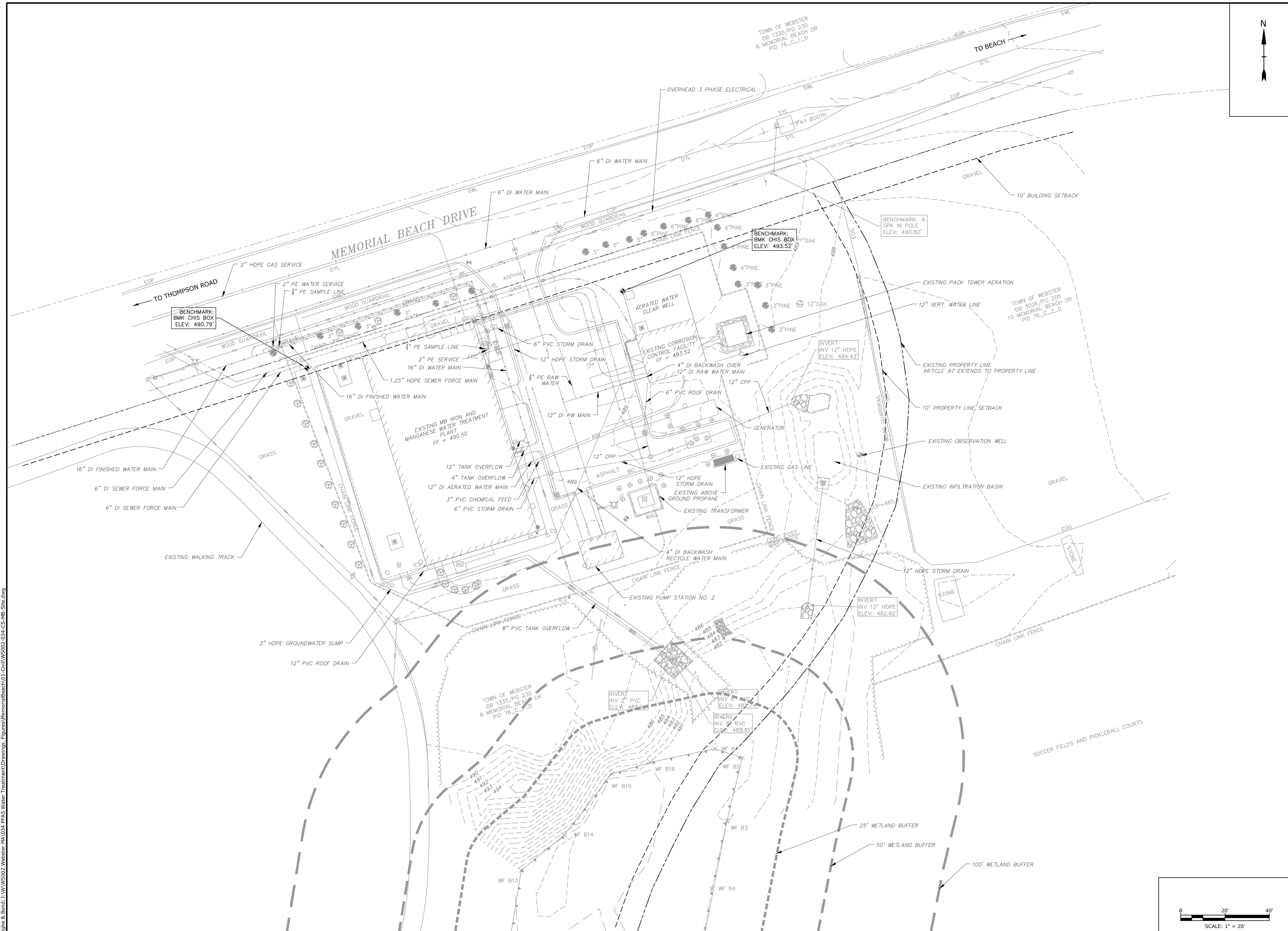
**MEMORIAL
BEACH PFAS
WTP**

Webster Water Department

Town of Webster, Massachusetts

A	9/5/2023	PERMIT SET
MARK	DATE	DESCRIPTION
PROJECT NO: W5002-034-MB		
DATE: SEPTEMBER 5, 2023		
FILE: W5002-034-CS-MB-Site.dwg		
DRAWN BY: TCW		
DESIGNED/CHECKED BY: TJG/DMT		
APPROVED BY: -		

EXISTING CONDITIONS WTP PLAN



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BEACH PFAS
WTP**

Webster Water Department

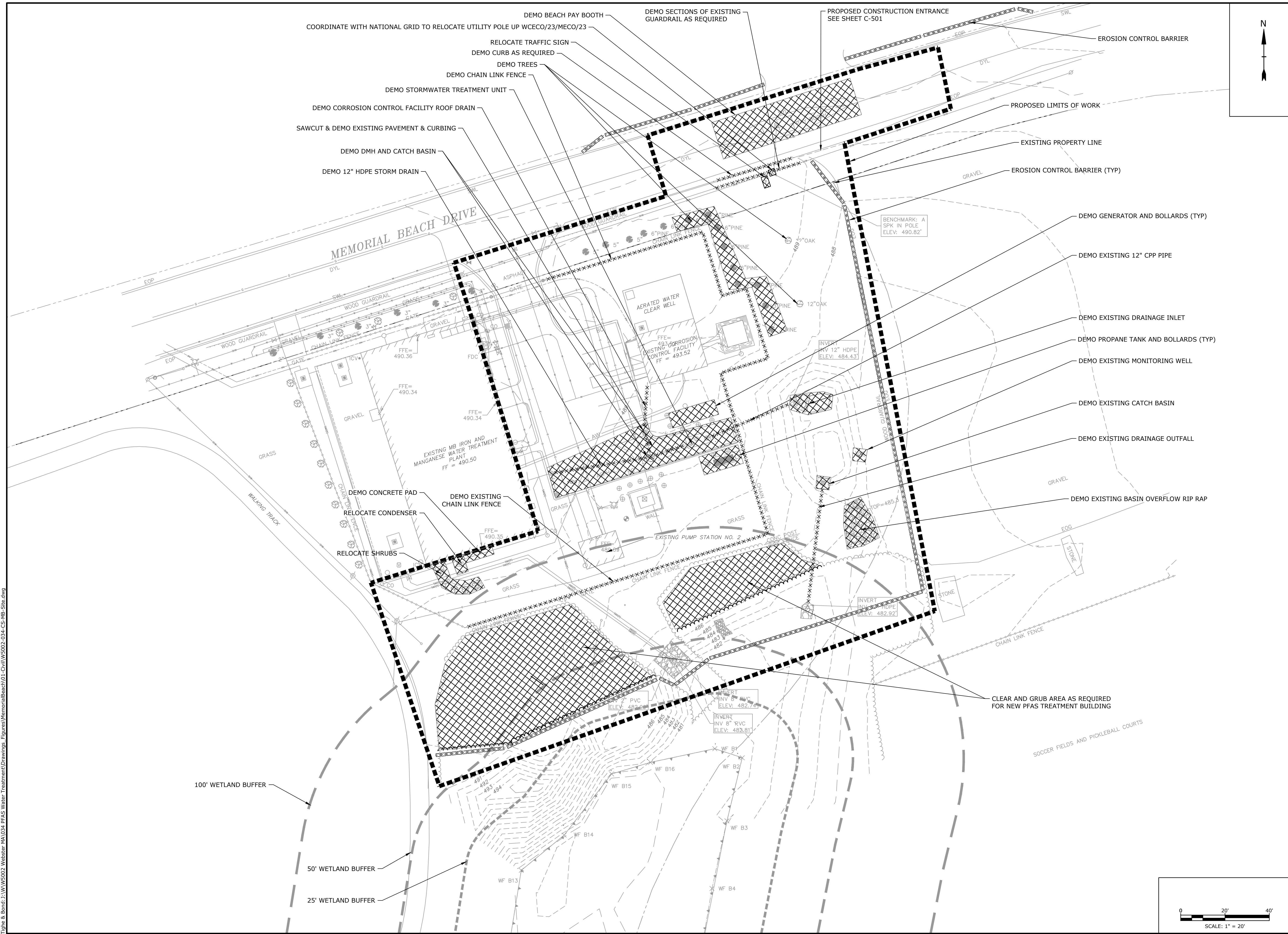
Town of Webster, Massachusetts

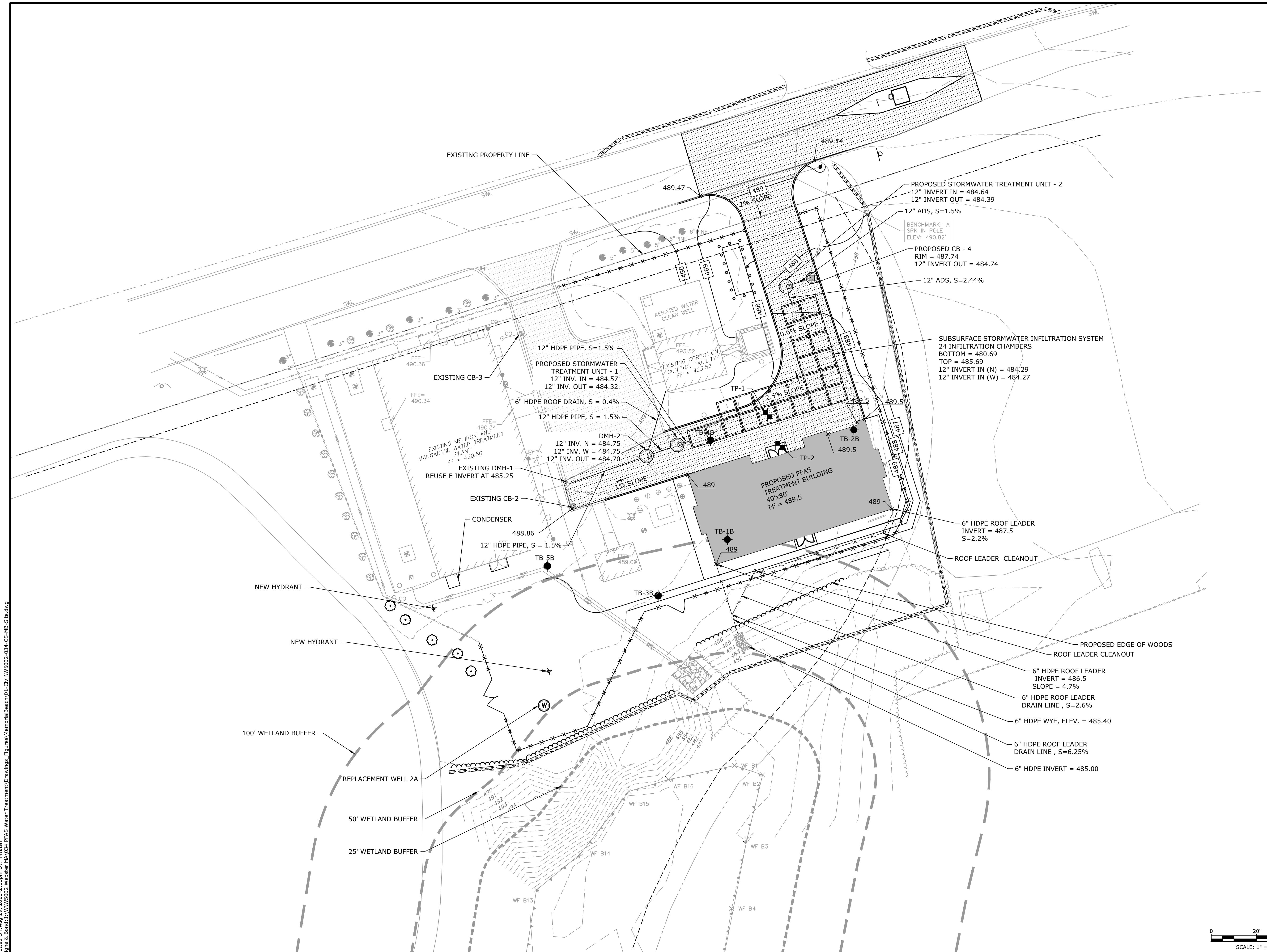
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DRAWN BY:		TCW
DESIGNED/CHECKED BY:		TJG/DMT
APPROVED BY:		-

EROSION CONTROL AND SITE DEMOLITION PLAN

C-102

Plotted On: Aug 22, 2023 - 1:30pm By: Iwaisii
Tigher & Bond: J:\W\W5002 Webster MA\034 PFAS Water Treatment\Drawings_Figures\MemorialBeach\01-Civil\W5002-034-CS-MB-Site.dwg





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MEMORIAL BEACH PFAS WTP

Webster Water Department

Town of Webster, Massachusetts

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DATE:		SEPTEMBER 5, 2023
FILE:		W5002-034-CS-MB-Site.dwg
DRAWN BY:		TCW
DESIGNED/CHECKED BY:		TJG/DMT
APPROVED BY:		-
<h1 style="text-align: center;">SITE GRADING AND DRAINAGE PLAN</h1>		
SCALE:		1" = 20'
<h1 style="text-align: center;">C-104</h1>		

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**MEMORIAL
BEACH PFAS
WTP**

Webster Water Department

Town of Webster, Massachusetts

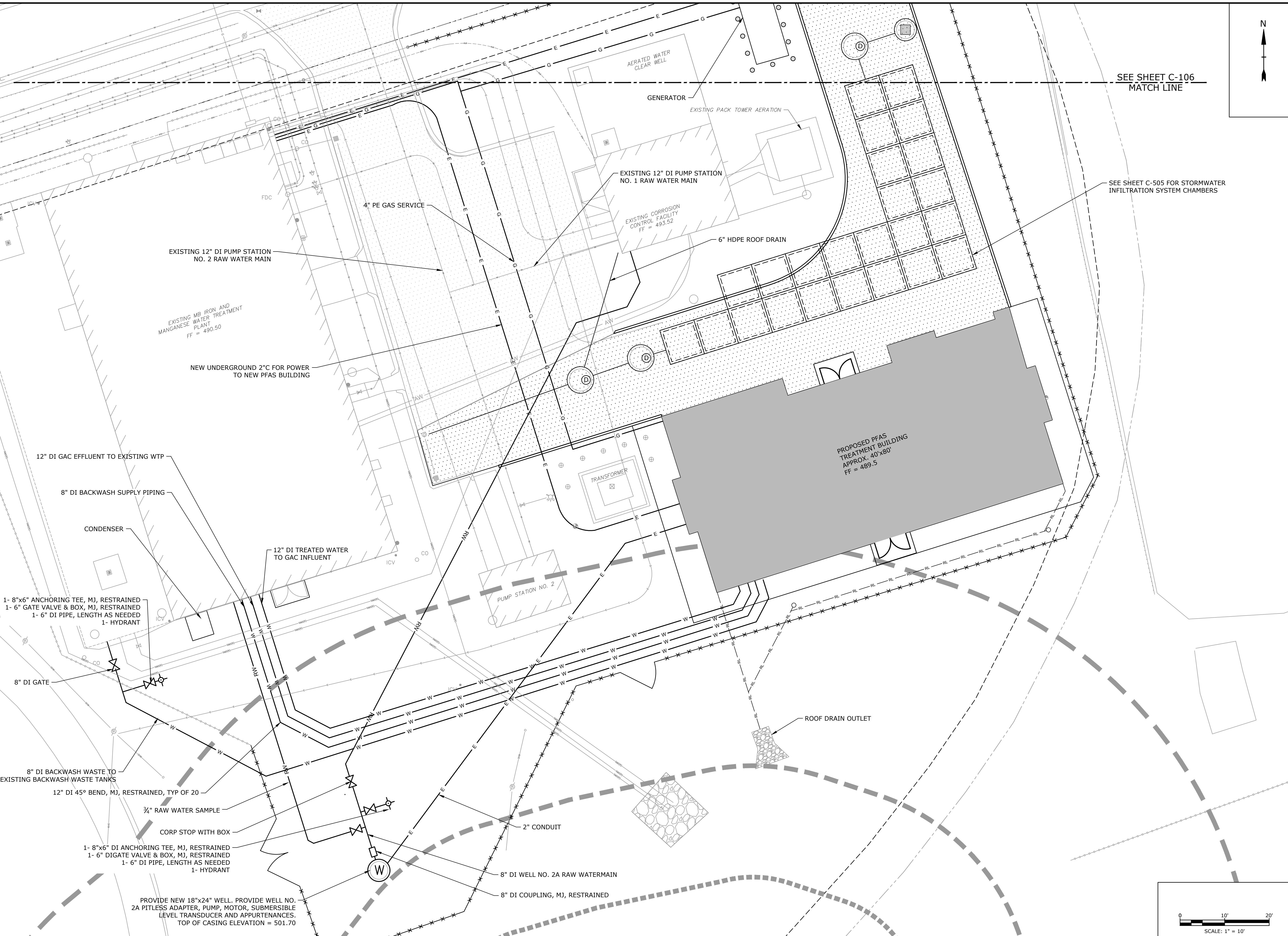
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APPROVED BY:		-

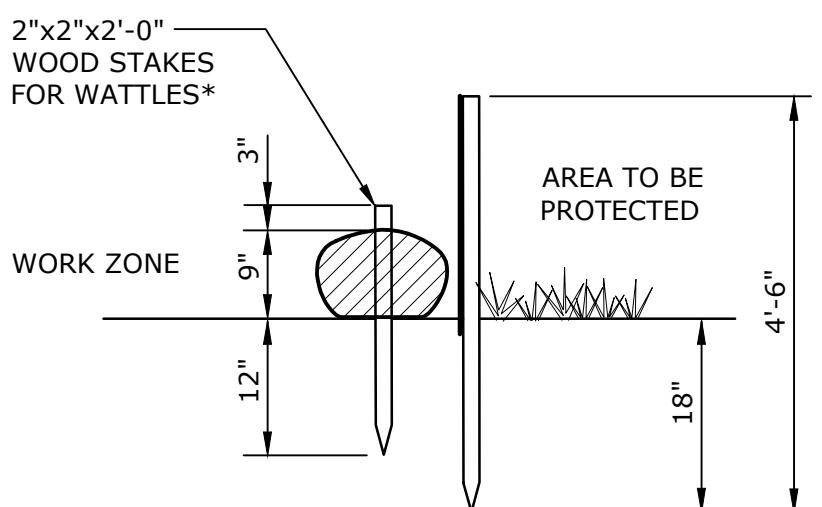
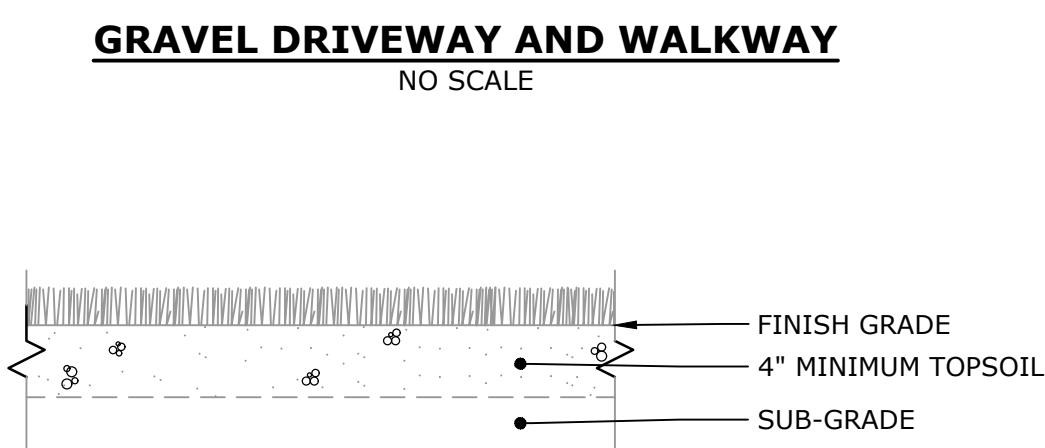
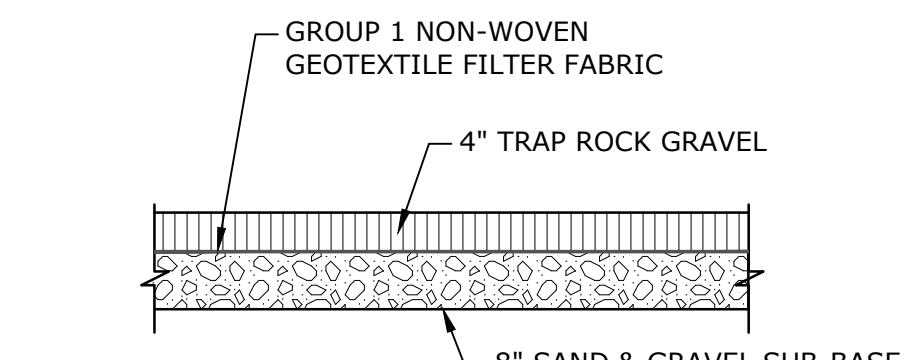
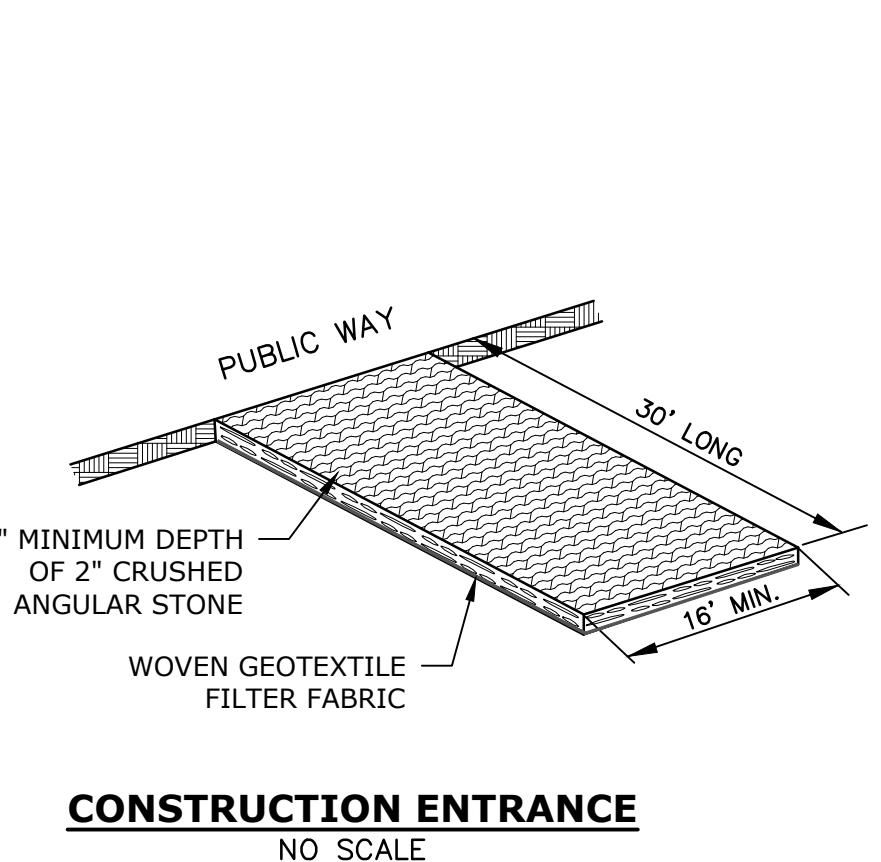
SITE UTILITY PLAN - 1

SCALE: $1'' = 10'$

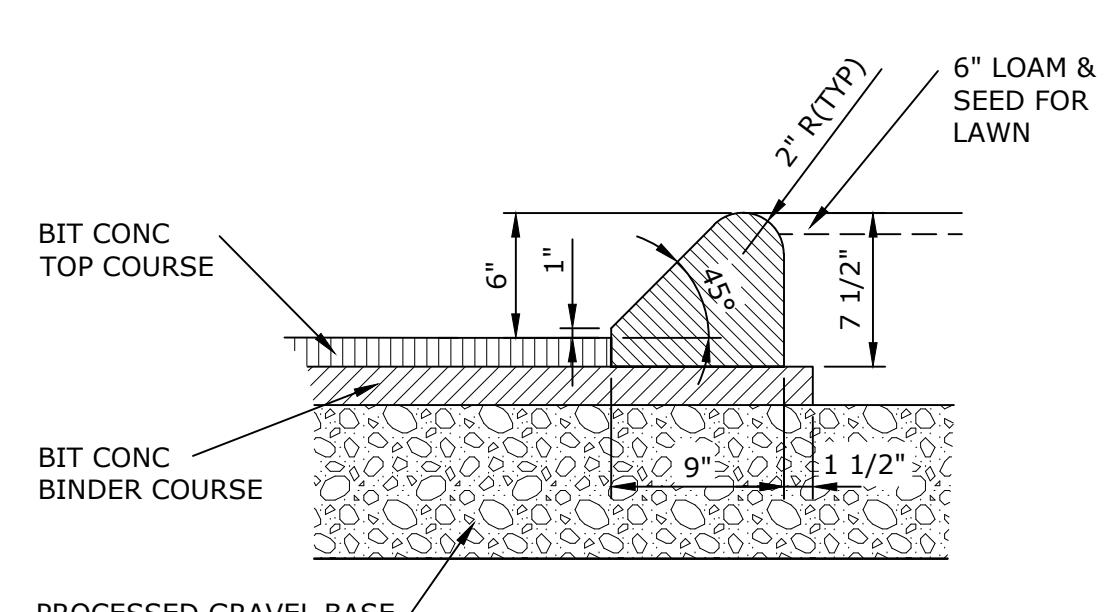
C-105

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Last Dotted On: Aug 29, 2023-2:15pm By: TWalsh

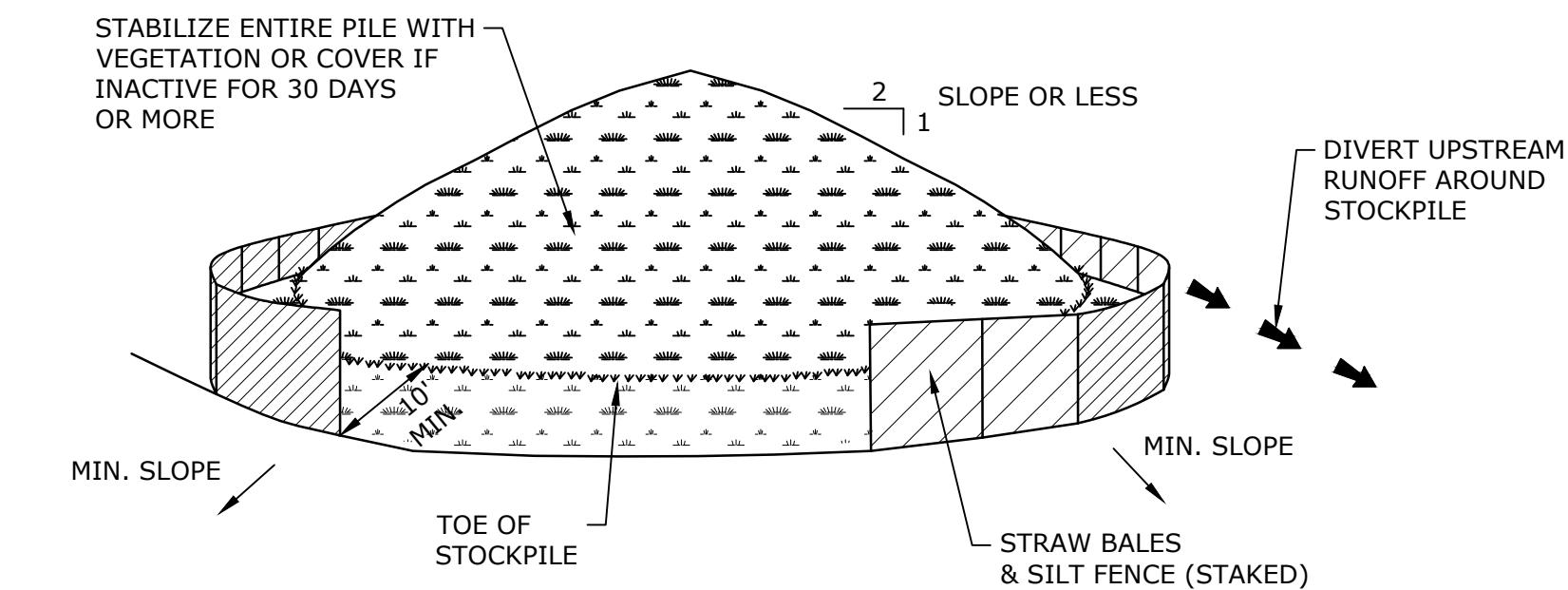
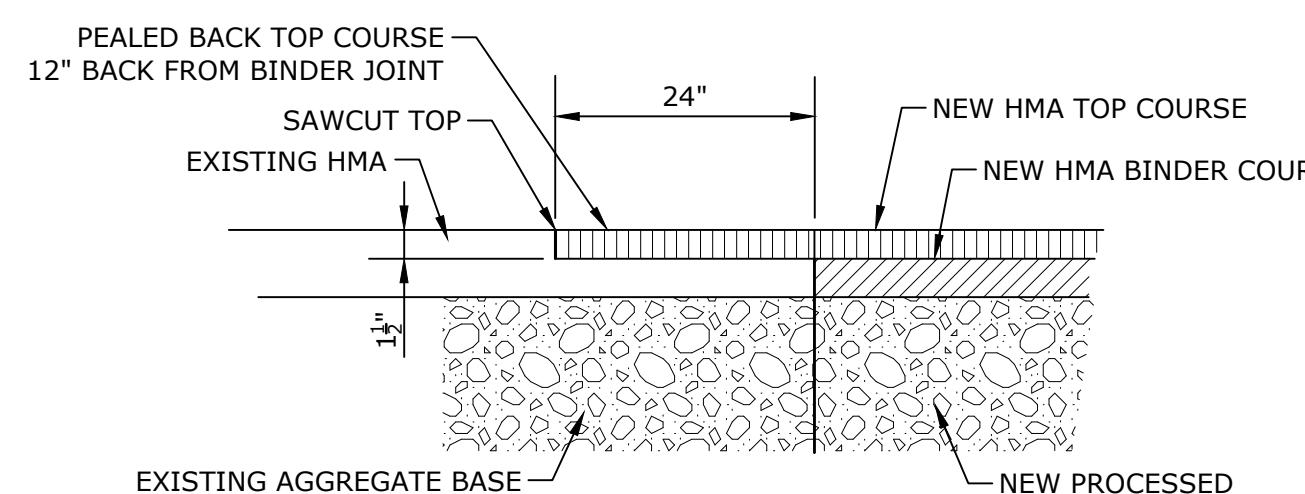
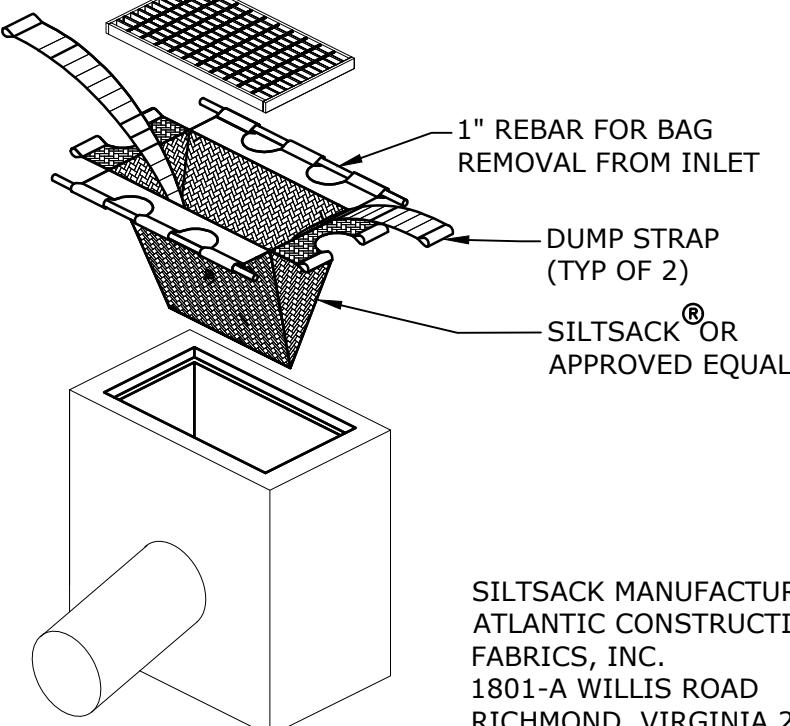




HMA DRIVEWAYS AND PARKING AREAS
NO SCALE

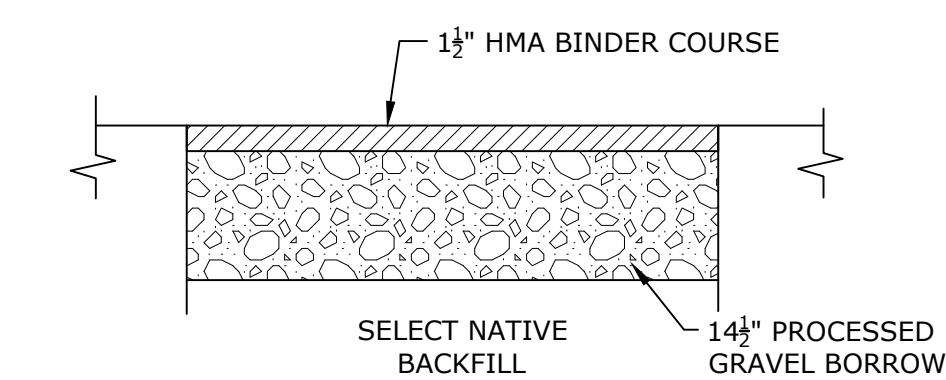
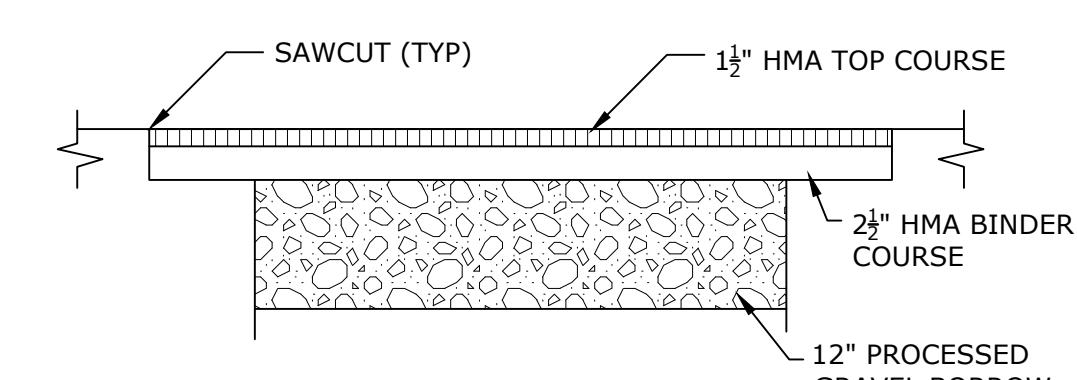
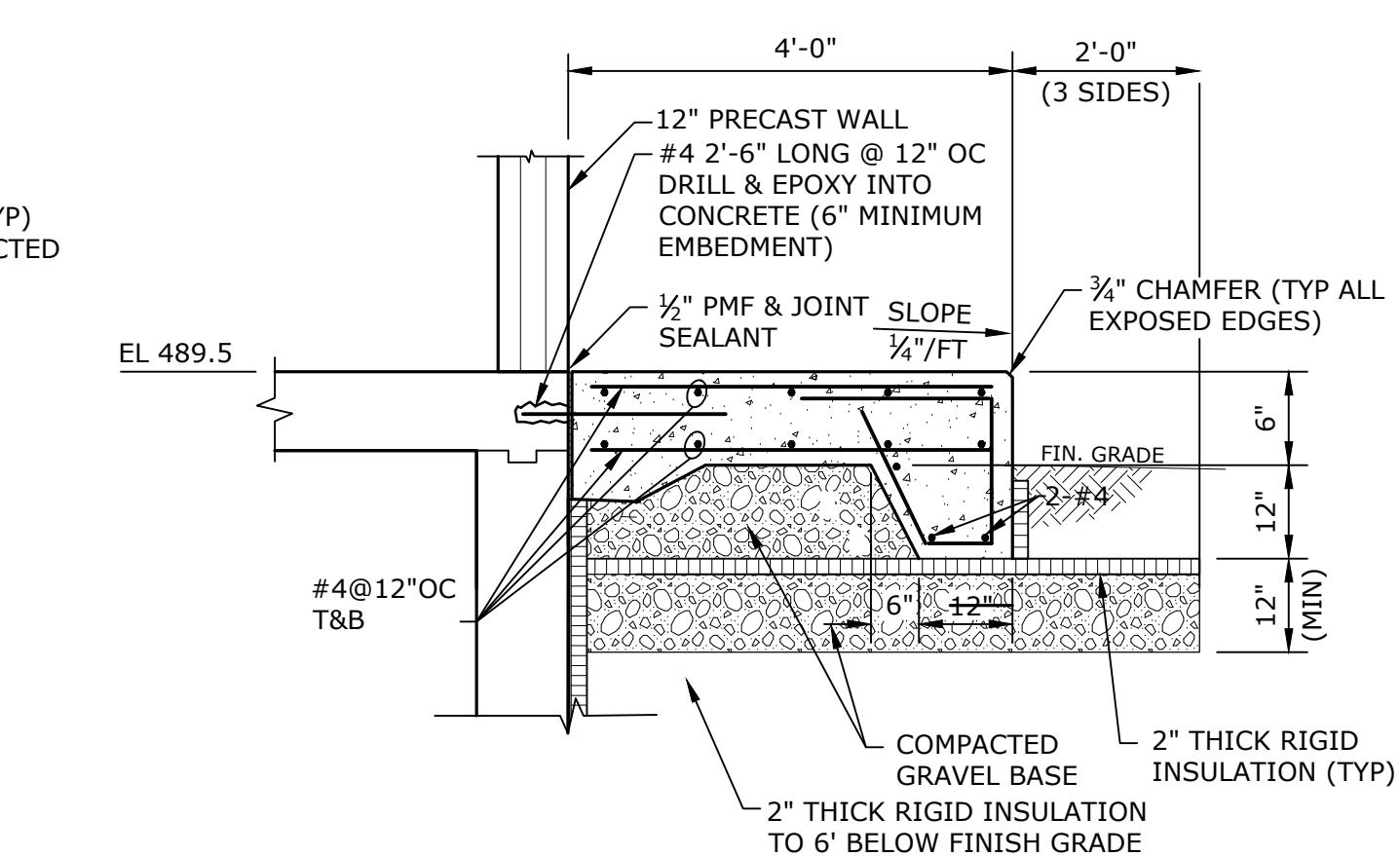
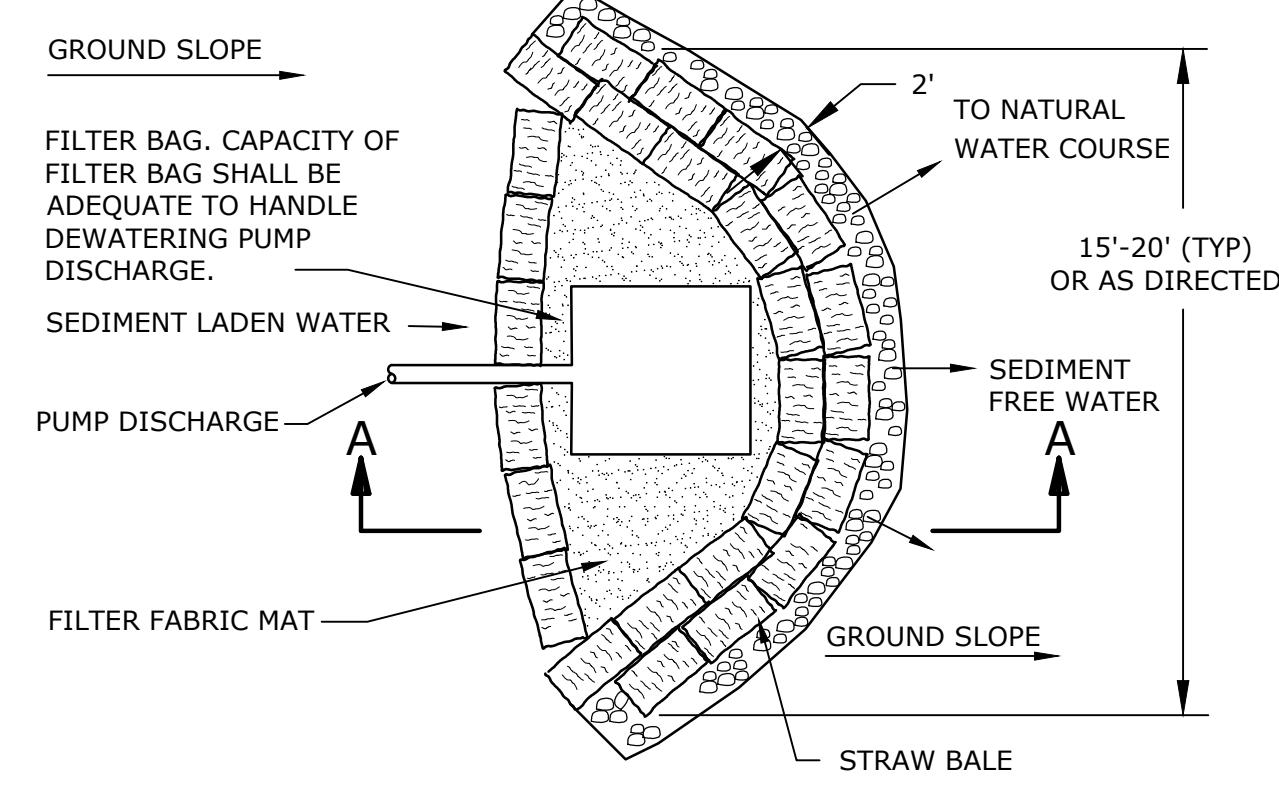
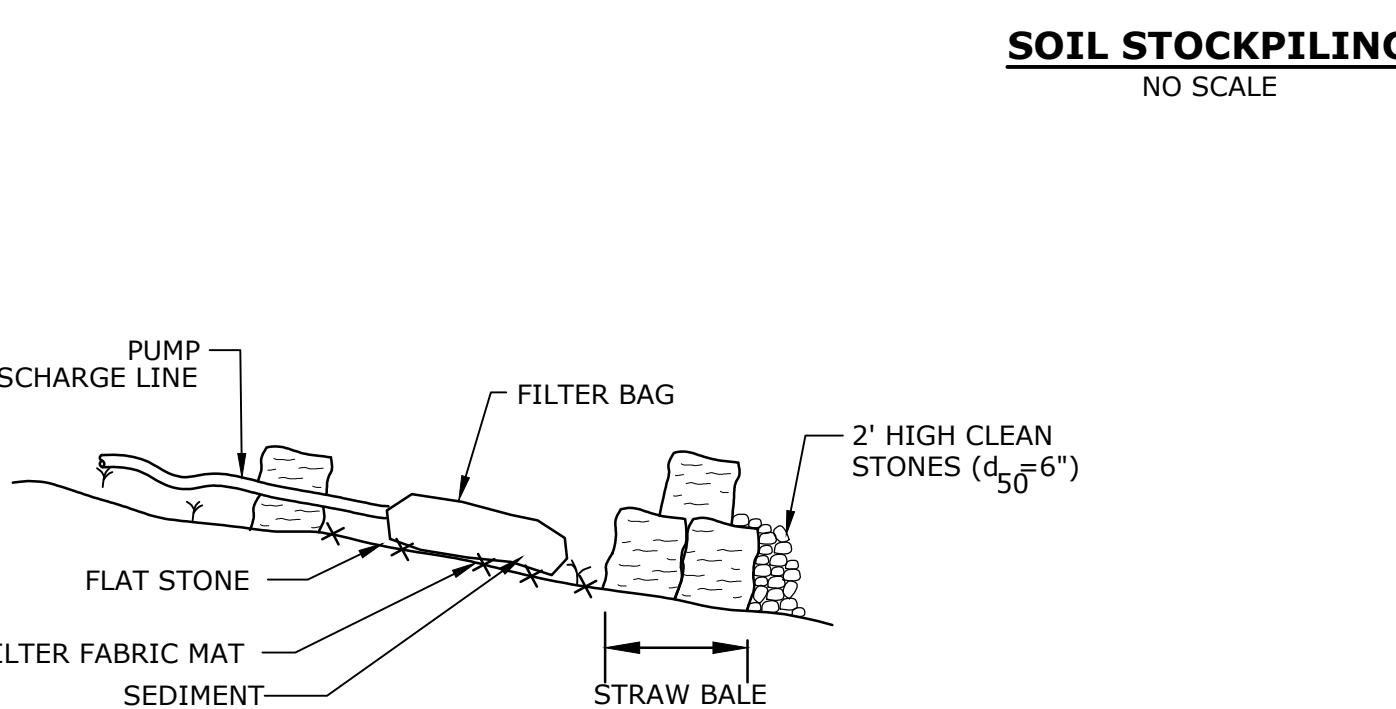


HMA BERM - TYPE 2
NO SCALE



INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED.



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Department

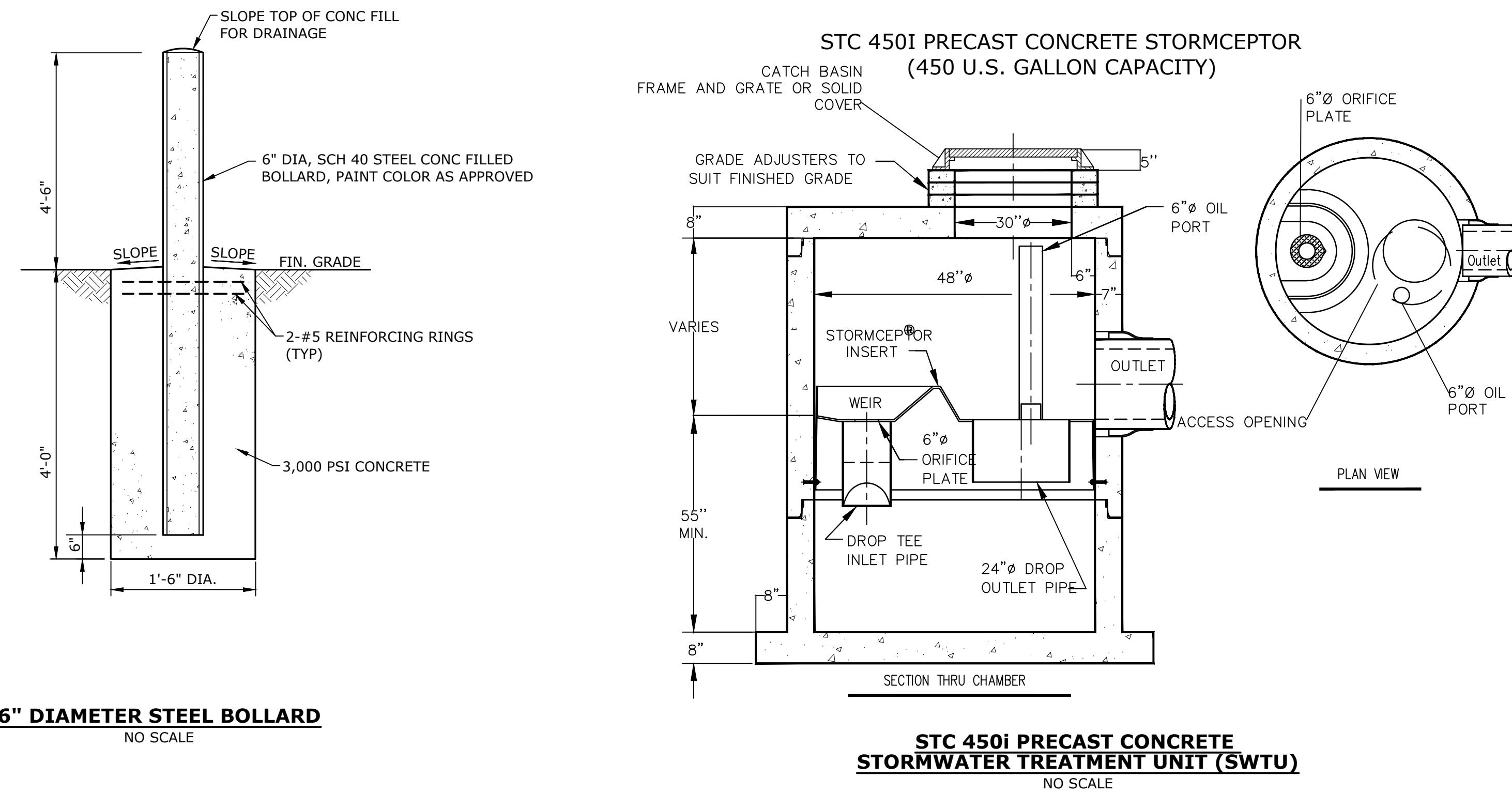
Town of Webster,
Massachusetts

A	9/5/2023	PERMIT SET
MARK	DATE	DESCRIPTION
PROJECT NO:	W5002-034-MB	
DATE:	SEPTEMBER 5, 2023	
FILE:	W5002-034-CS-MB-Site.dwg	
DRAWN BY:	TCW	
DESIGNED/CHECKED BY:	TIG/DMT	
APPROVED BY:	-	

CIVIL DETAILS - 1

SCALE: NO SCALE

C-501



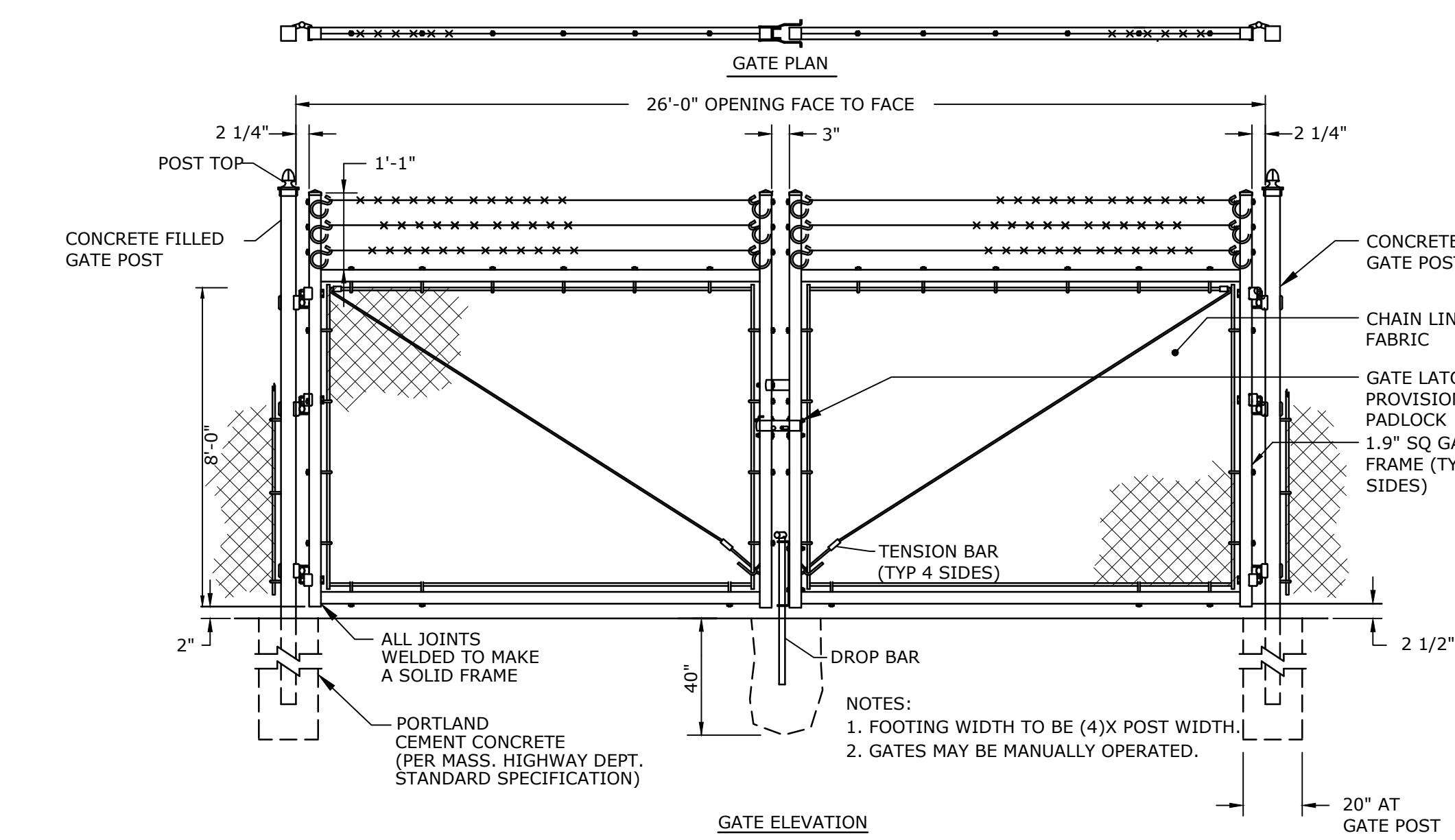
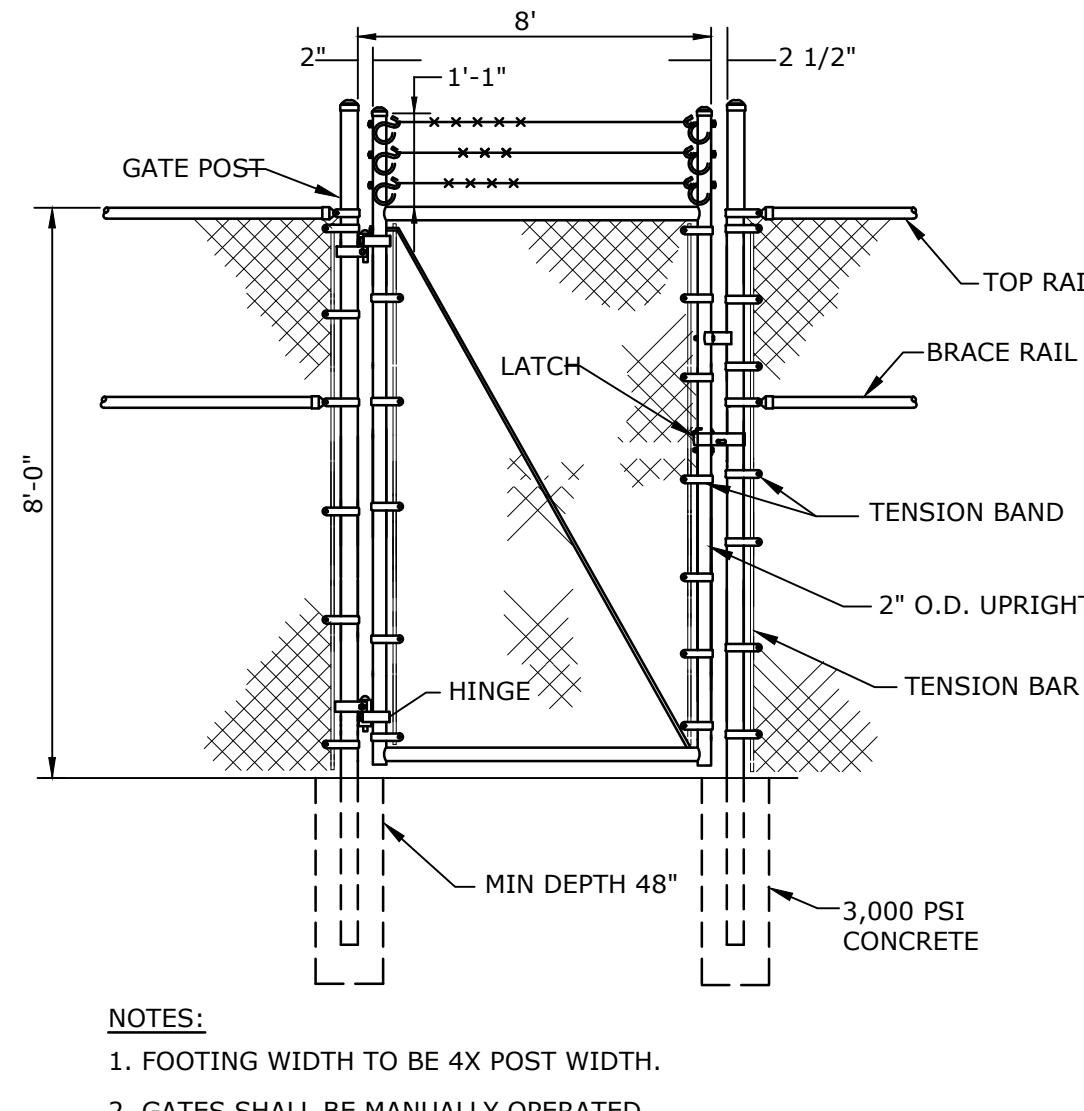
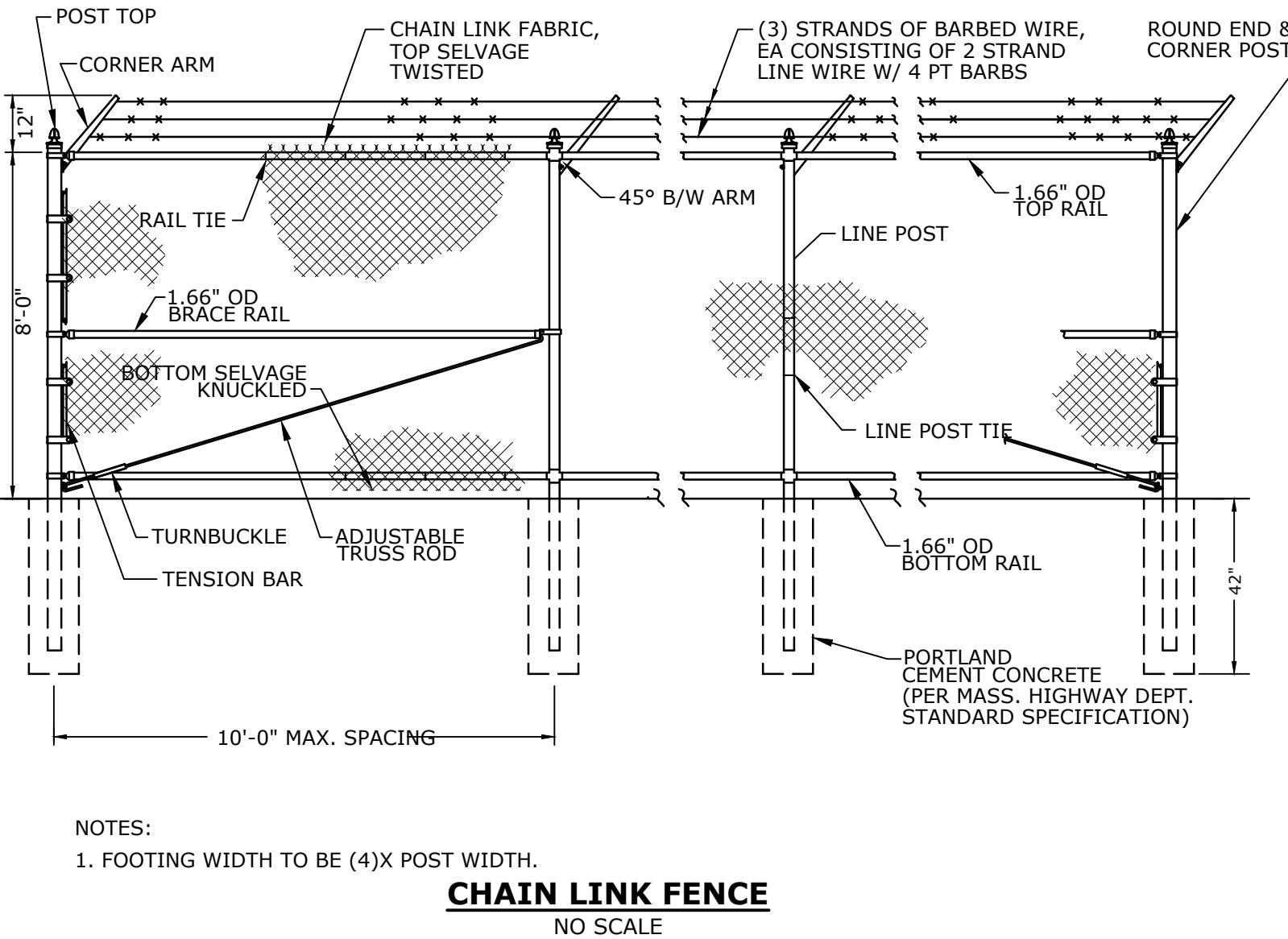
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Town of Webster,
Massachusetts

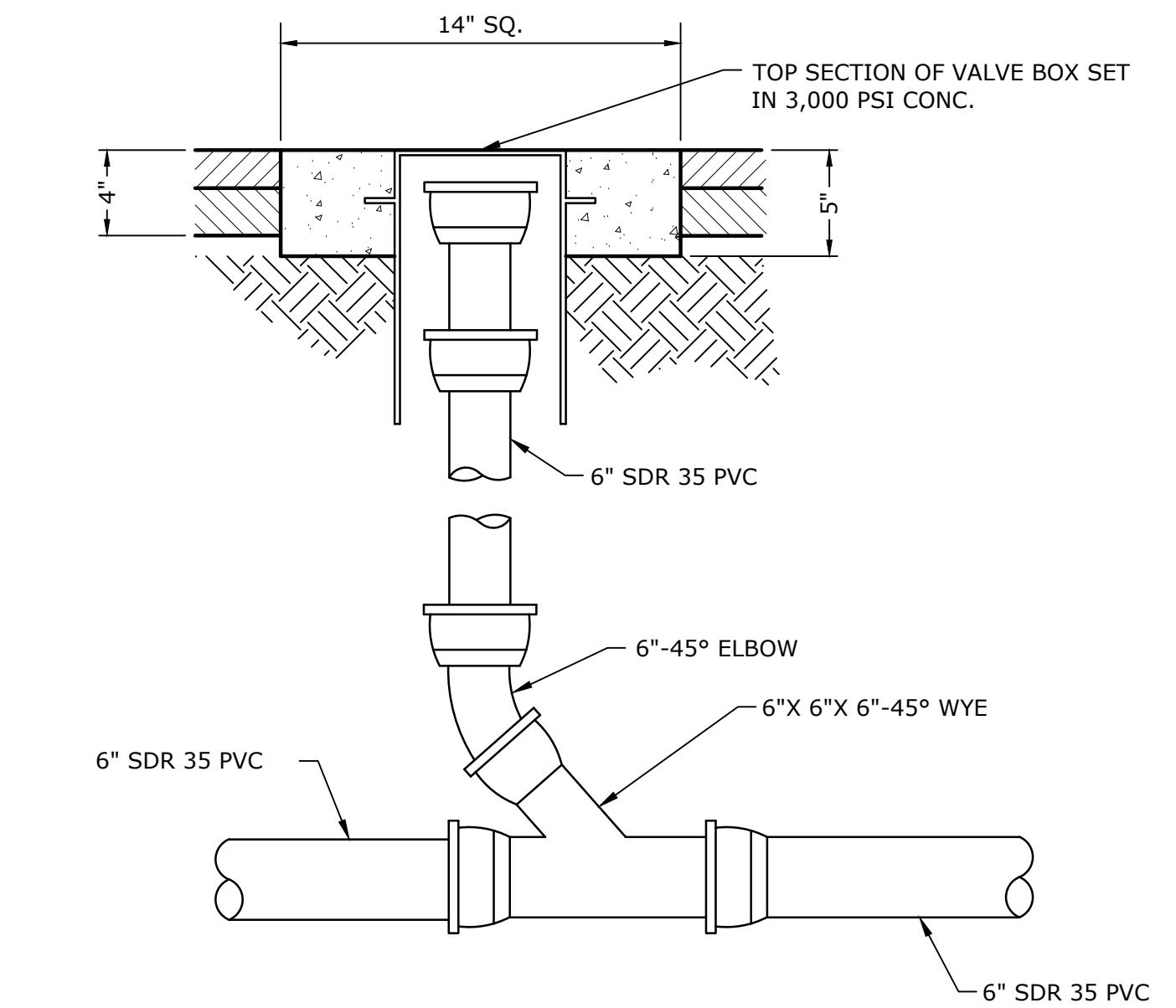
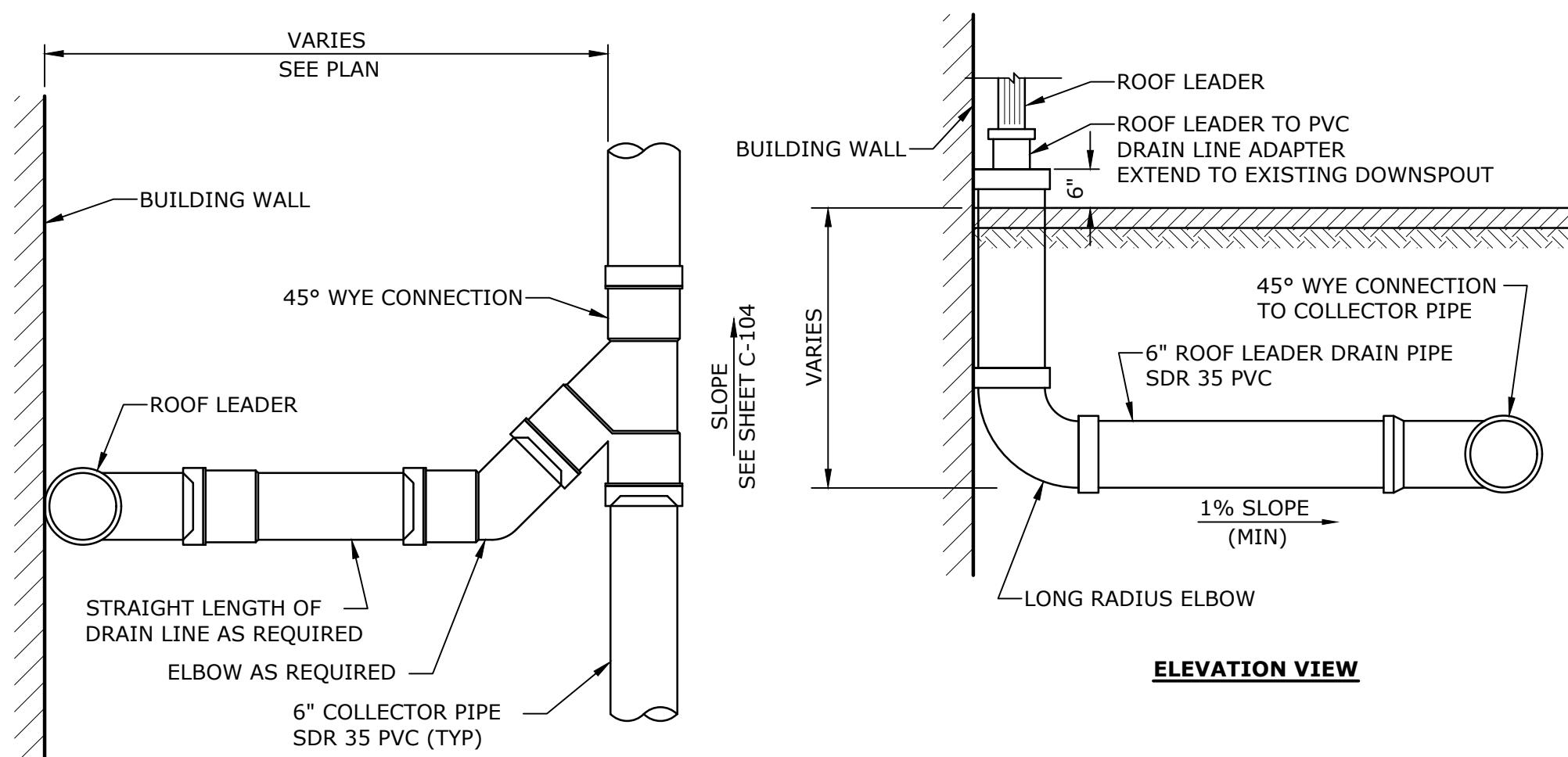
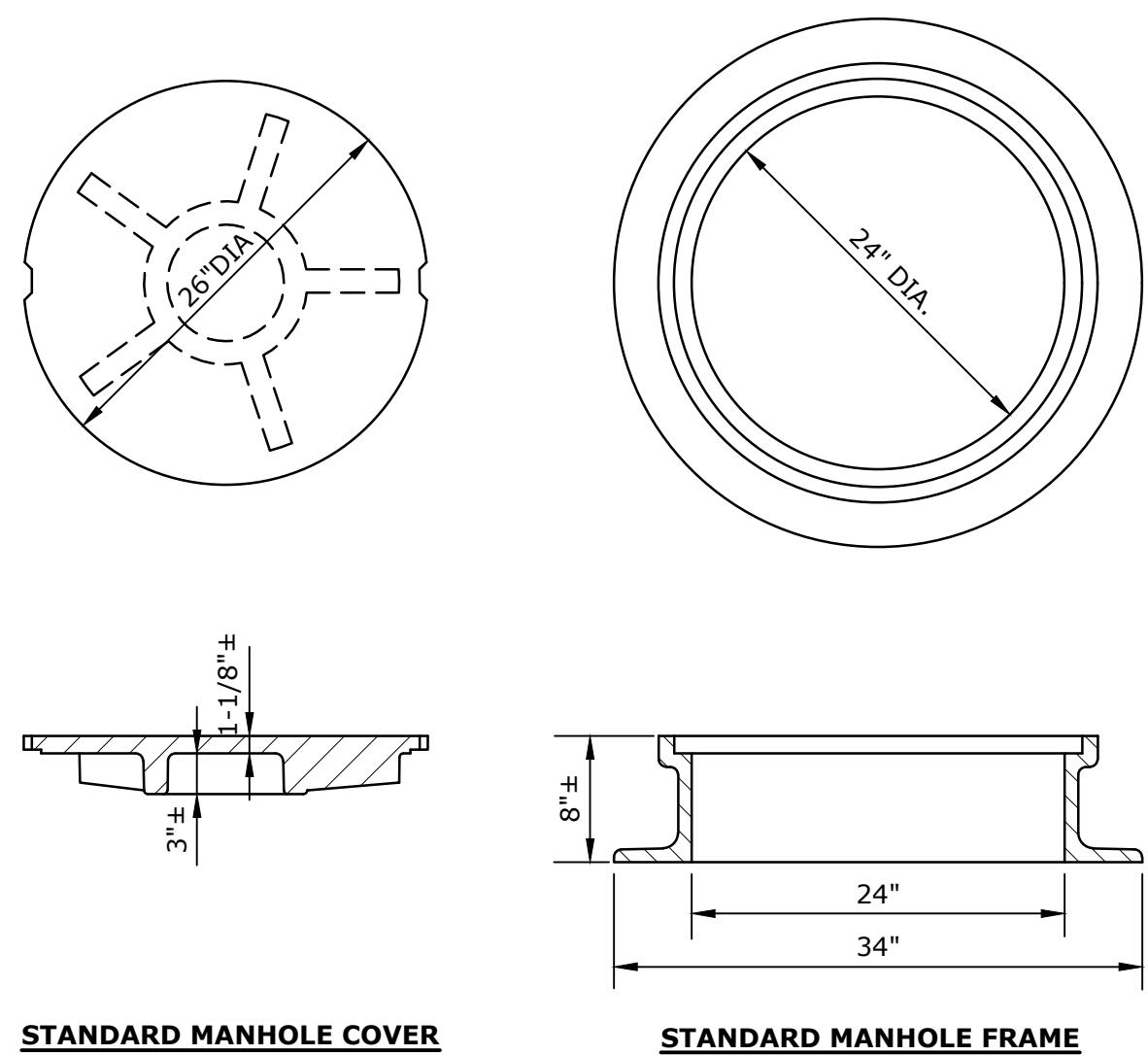


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PROJECT NO: W5002-034-MB
DATE: SEPTEMBER 5, 2023
FILE: W5002-034-CS-MB-Site.dwg
DRAWN BY: TCW
DESIGNED/CHECKED BY: TIG/DMT
APPROVED BY: -

CIVIL DETAILS - 2

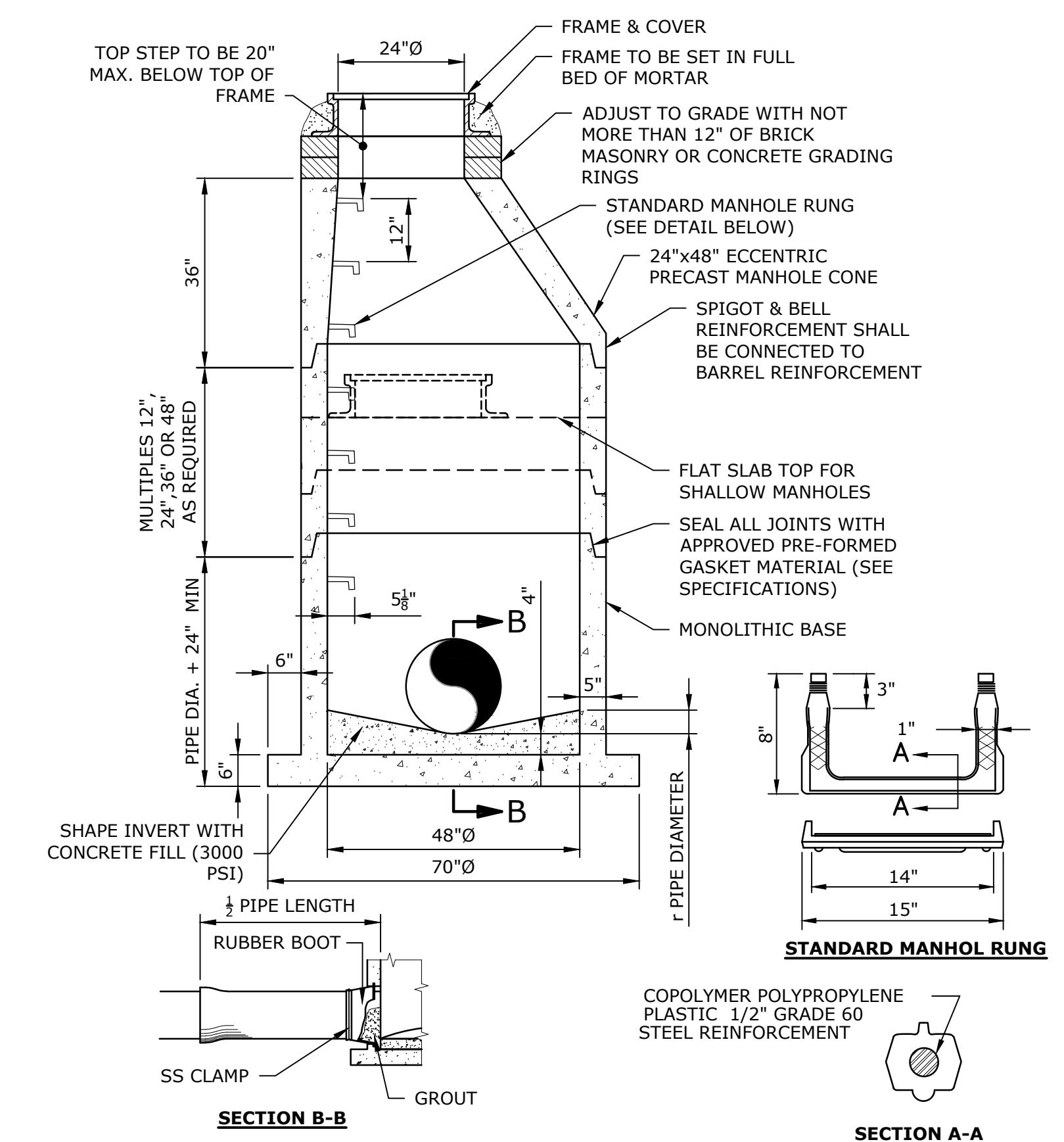
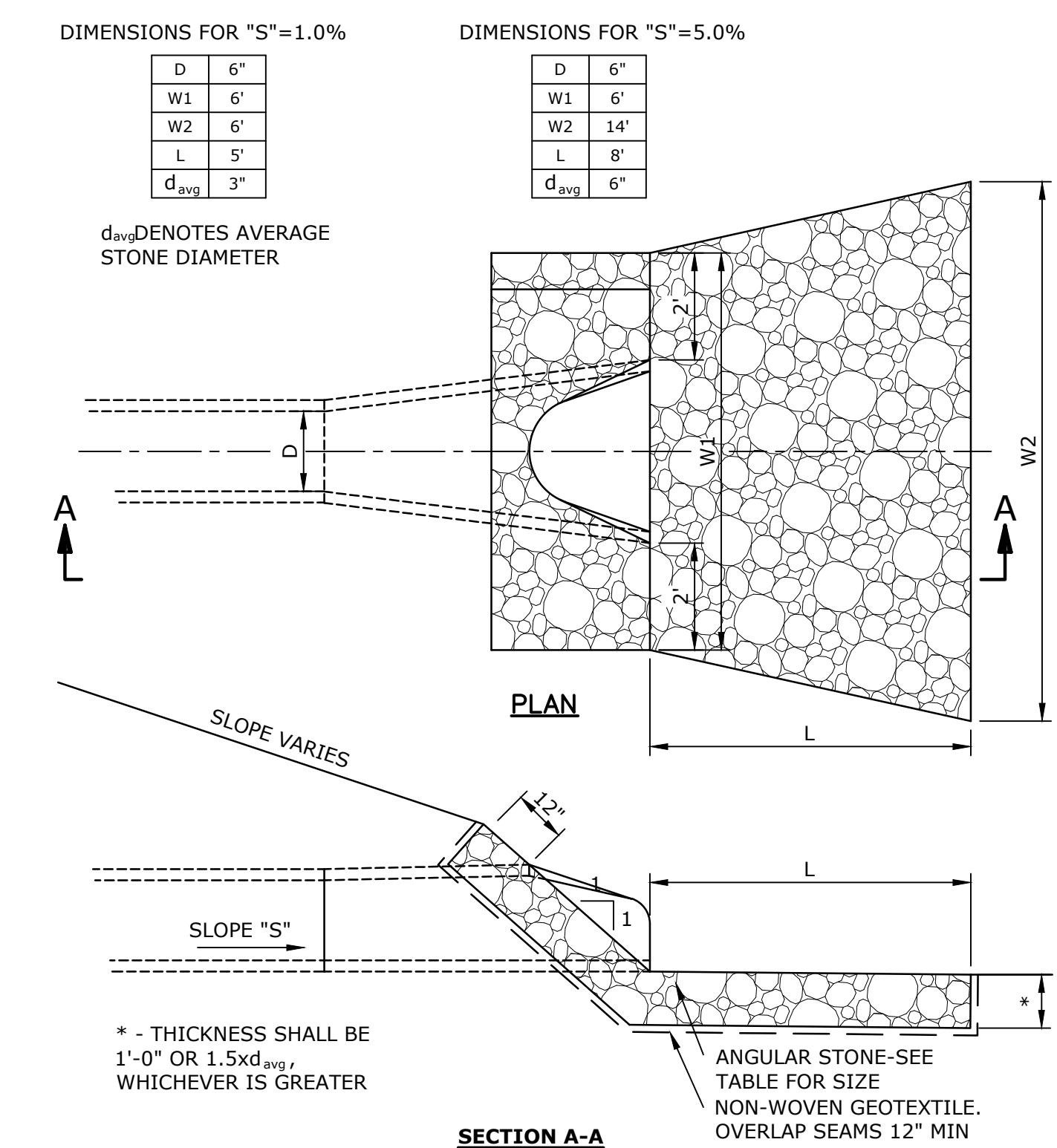
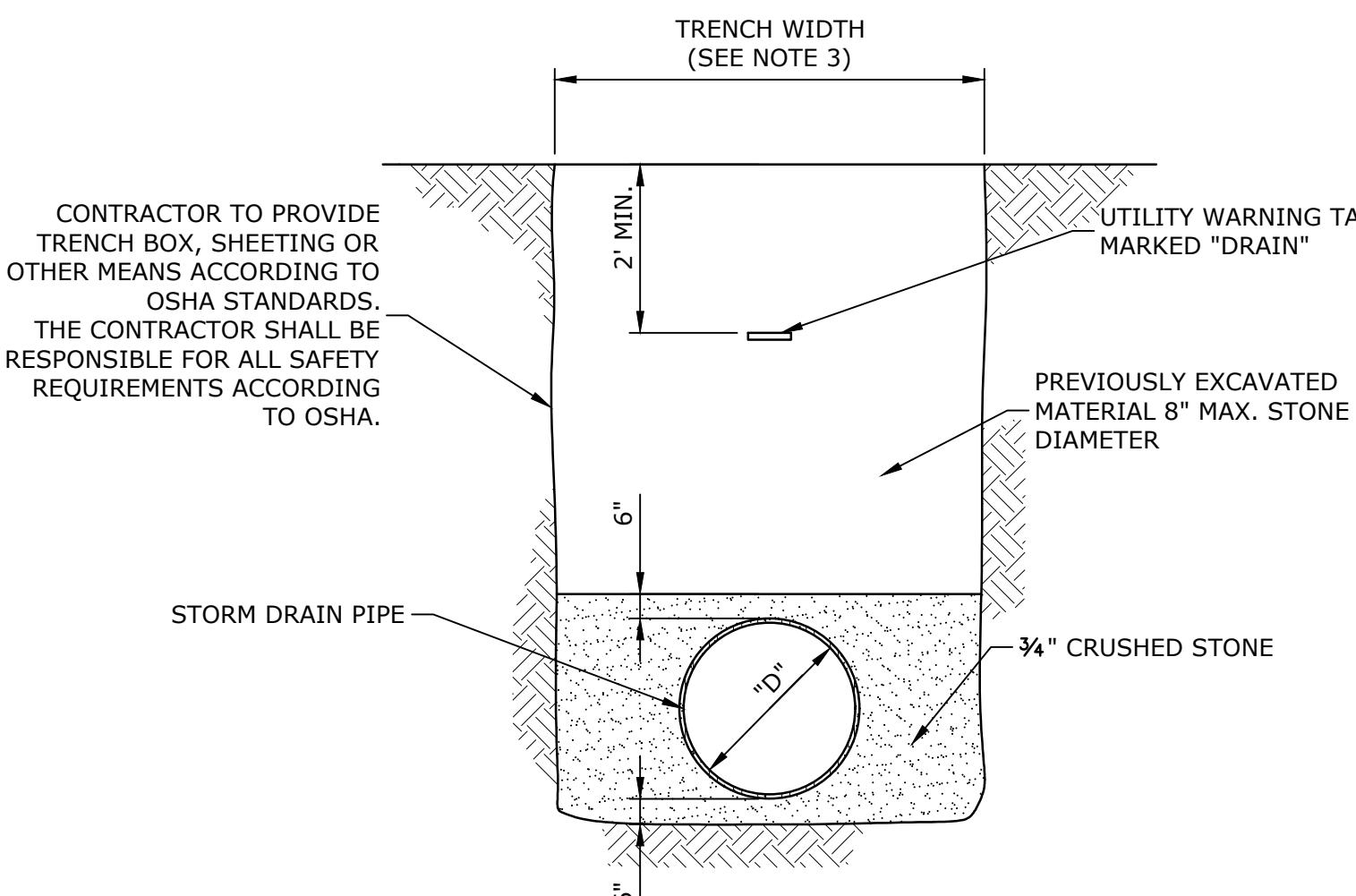
SCALE: NO SCALE

C-502



NOTES:
1. FRAME AND COVER SHALL BE PROVIDED FROM THE SAME MANUFACTURER.
2. LETTERING SHALL BE PROVIDED ON COVERS AS SPECIFIED.

MANHOLE FRAME AND COVER
NO SCALE



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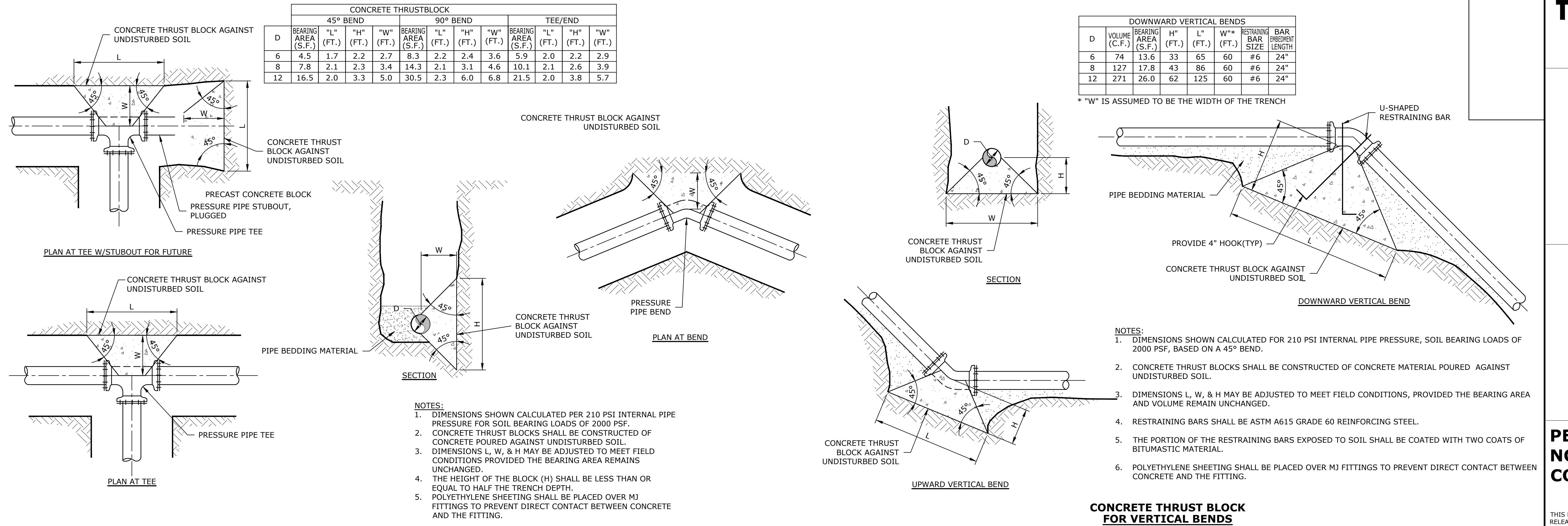
**Town of Webster,
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PROJECT NO: W5002-034-MB
DATE: SEPTEMBER 5, 2023
FILE: W5002-034-CS-MB-Site.dwg
DRAWN BY: TCW
DESIGNED/CHECKED BY: TIG/DMT
APPROVED BY: -

CIVIL DETAILS - 3

SCALE: NO SCALE

C-503



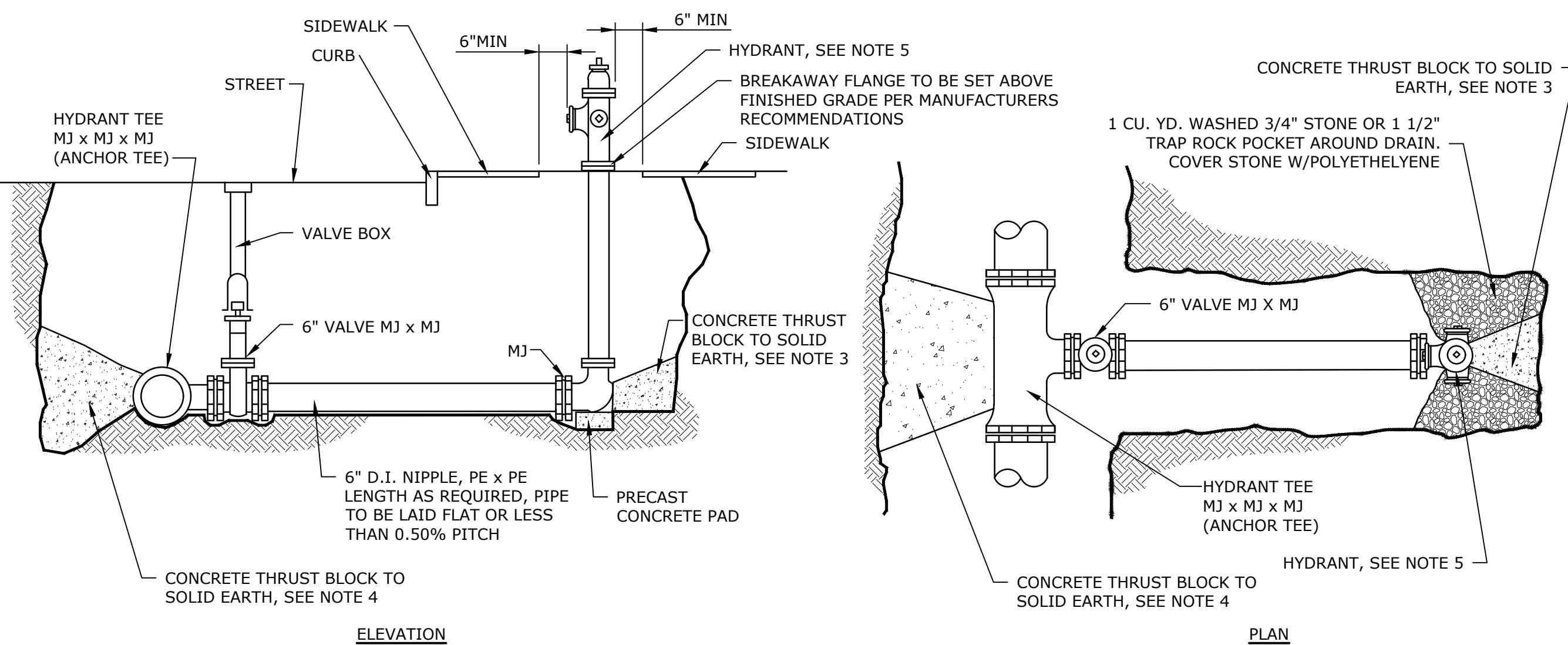
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NOTES

1. ALL CONCRETE TO BE CAST-IN-PLACE (3000 PSI)
2. ALL MJ JOINTS SHALL HAVE RETAINER GLANDS
3. CARE SHALL BE TAKEN TO SHIELD HYDRANT BASE DRAIN HOLES DURING PLACEMENT OF THE CONCRETE THRUST BLOCK. DRAIN HOLES SHALL BE VERIFIED AS OPEN AND FREE OF OBSTRUCTIONS PRIOR TO BACKFILLING.
4. CARE SHALL BE TAKEN TO SHIELD ALL MECHANICAL JOINT GLANDS AND BOLTS DURING PLACEMENT OF CONCRETE THRUST BLOCK. ALL BOLTS AND GLANDS SHALL BE FREE AND UNOBSTRUCTED BEFORE BACKFILLING.
5. HYDRANT SHALL BE SET PLUMB. VERTICAL HYDRANT EXTENSIONS SHALL BE USED AS NECESSARY TO PROPERLY LOCATE THE BREAKAWAY FLANGE PER MANUFACTURERS RECOMMENDATIONS.
6. POLYETHYLENE SHEETING SHALL BE PLACED OVER THE FITTING AND/OR HYDRANT BASE TO PREVENT DIRECT CONTACT OF CONCRETE WITH THE FITTING.

A 9/5/2023 PERMIT SET
MARK DATE DESCRIPTION

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CIVIL DETAILS - 4

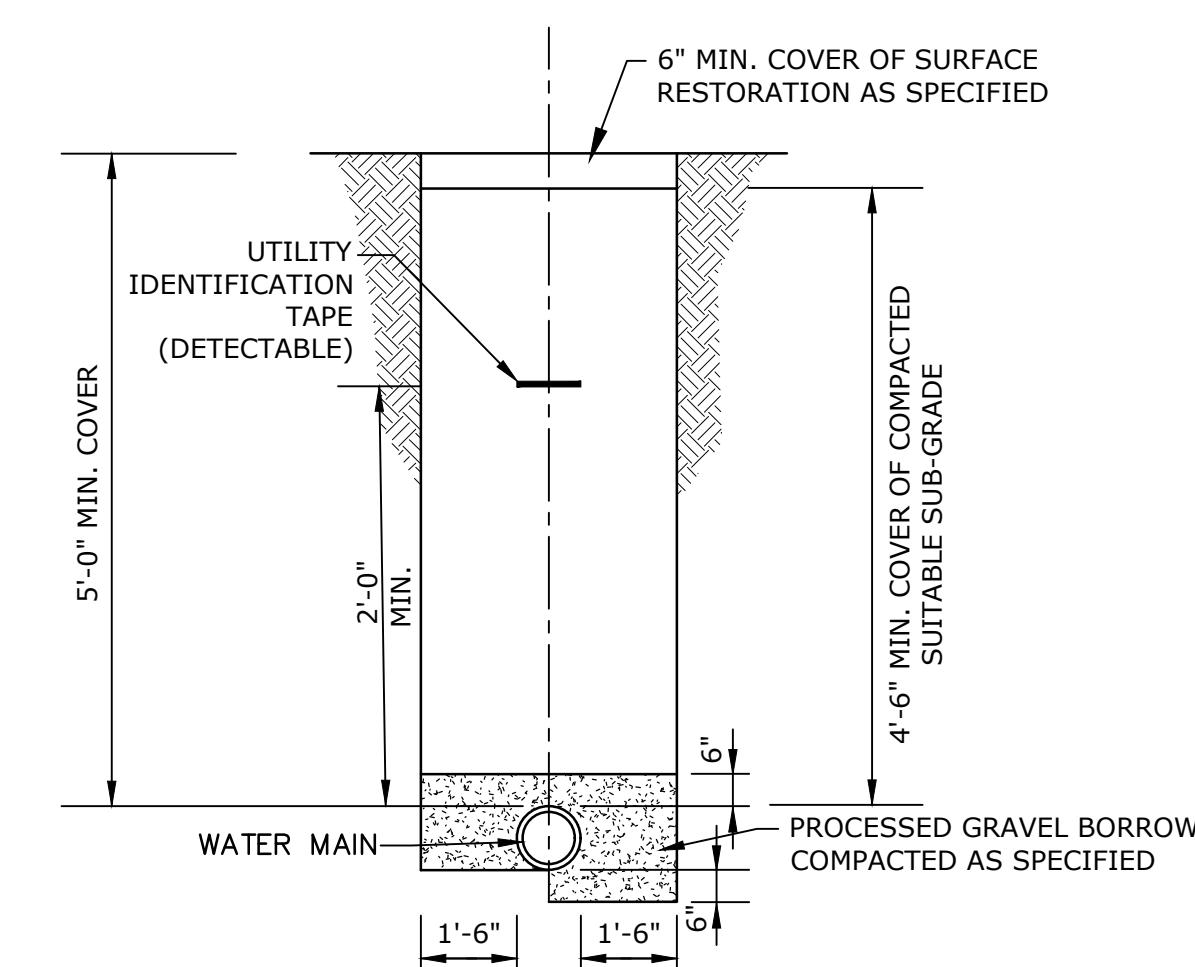
SCALE: NO SCALE

C-504

CONCRETE THRUST BLOCK FOR HORIZONTAL BENDS AND TEES

NO SCALE

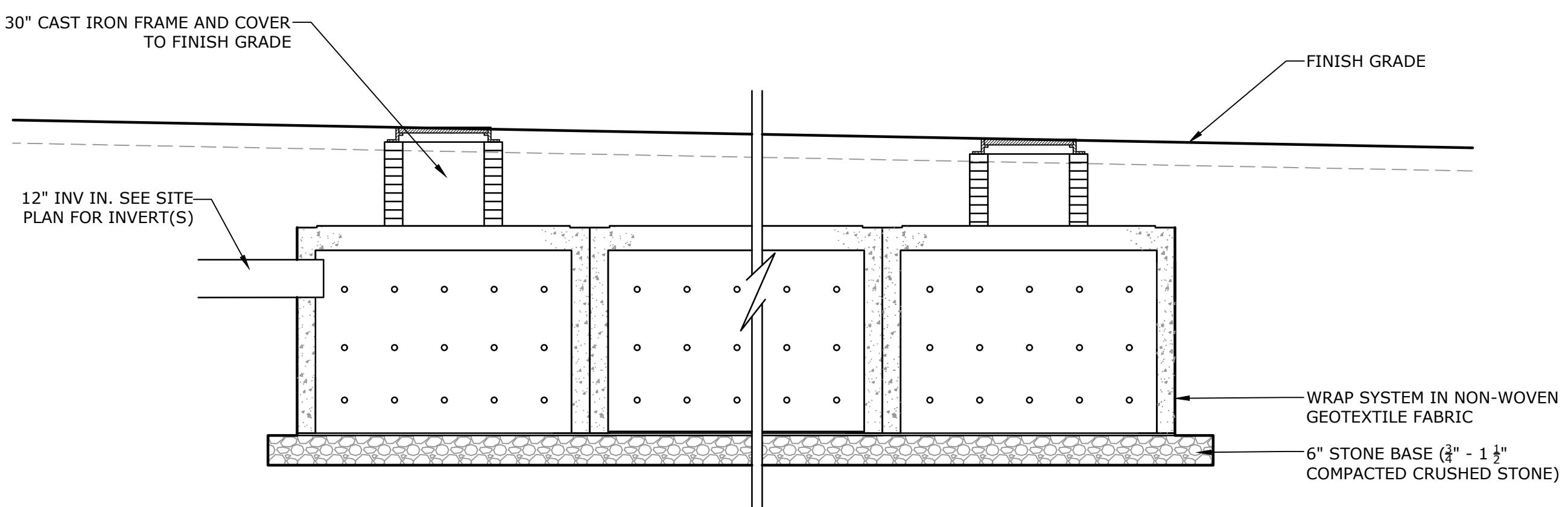
SIZE (IN.)	FITTING	MINIMUM* RESTRAINED LENGTH, FT. () INDICATES POLYWRAPPED
12"	90° BEND	67 (78)
12"	45° BEND	28 (32)
12"	22 1/2° BEND	14 (16)
12"	11 1/4° BEND	7 (8)
12"	DEAD END	142 (203)
8"	90° BEND	47 (55)
8"	45° BEND	20 (23)
8"	22 1/2° BEND	10 (11)
8"	11 1/4° BEND	5 (6)
8"	DEAD END	100 (143)
6"	90° BEND	36 (42)
6"	45° BEND	15 (18)
6"	22 1/2° BEND	8 (9)
6"	11 1/4° BEND	4 (5)
6"	DEAD END	76 (108)



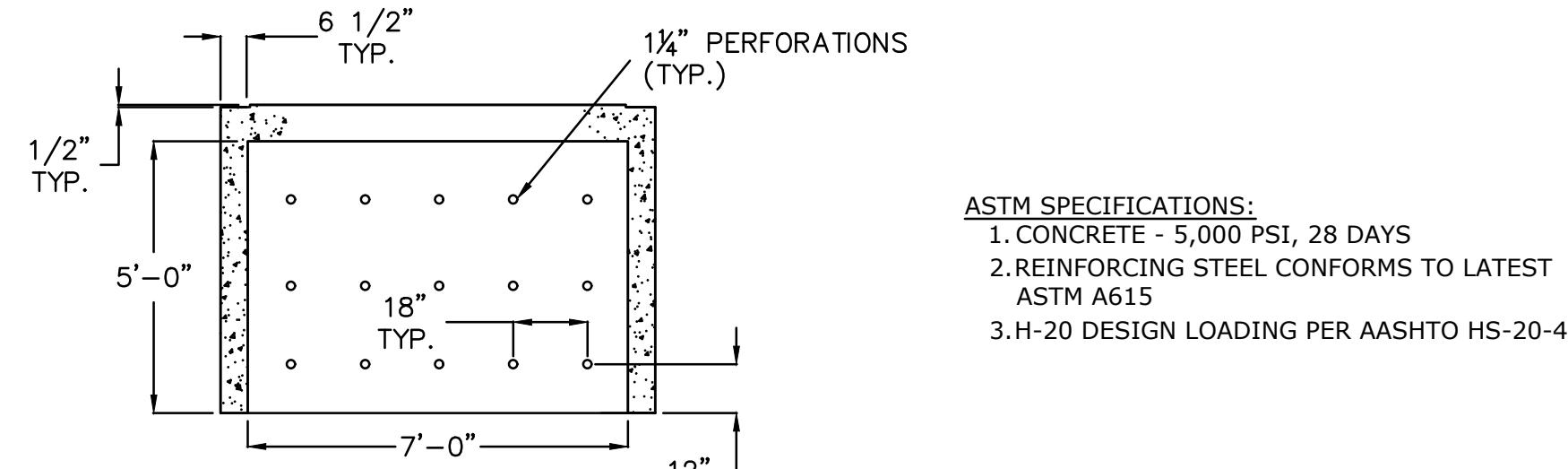
MINIMUM RESTRAINED LENGTHS FOR DI PIPE

HYDRANT INSTALLATION

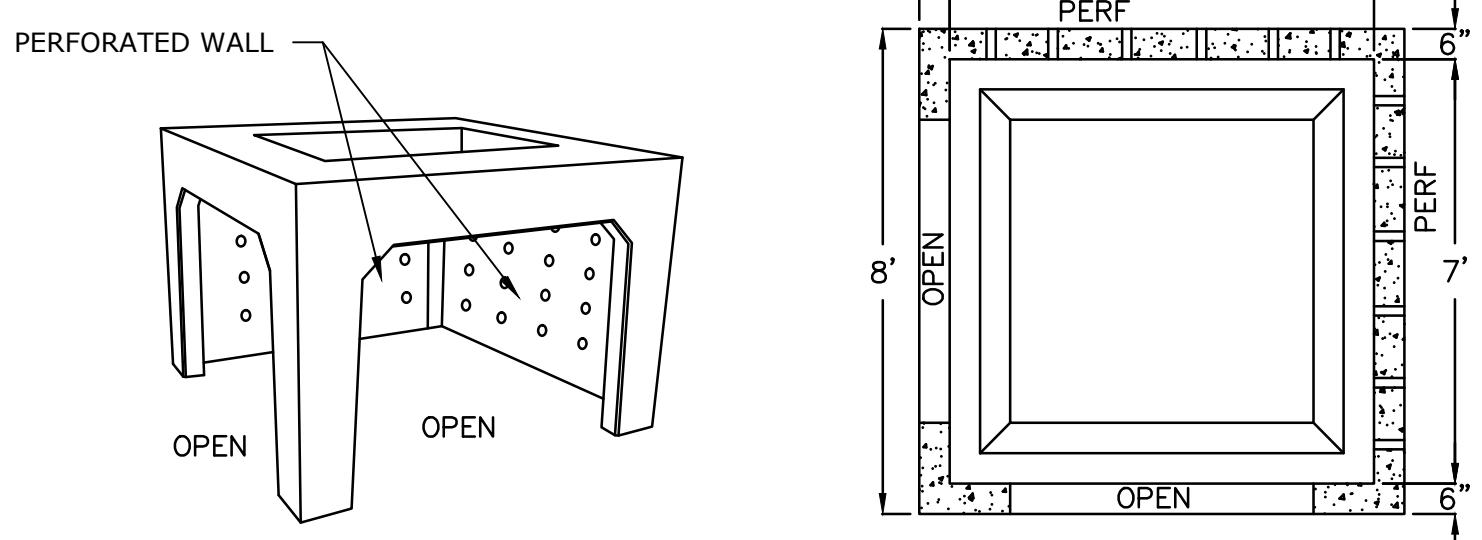
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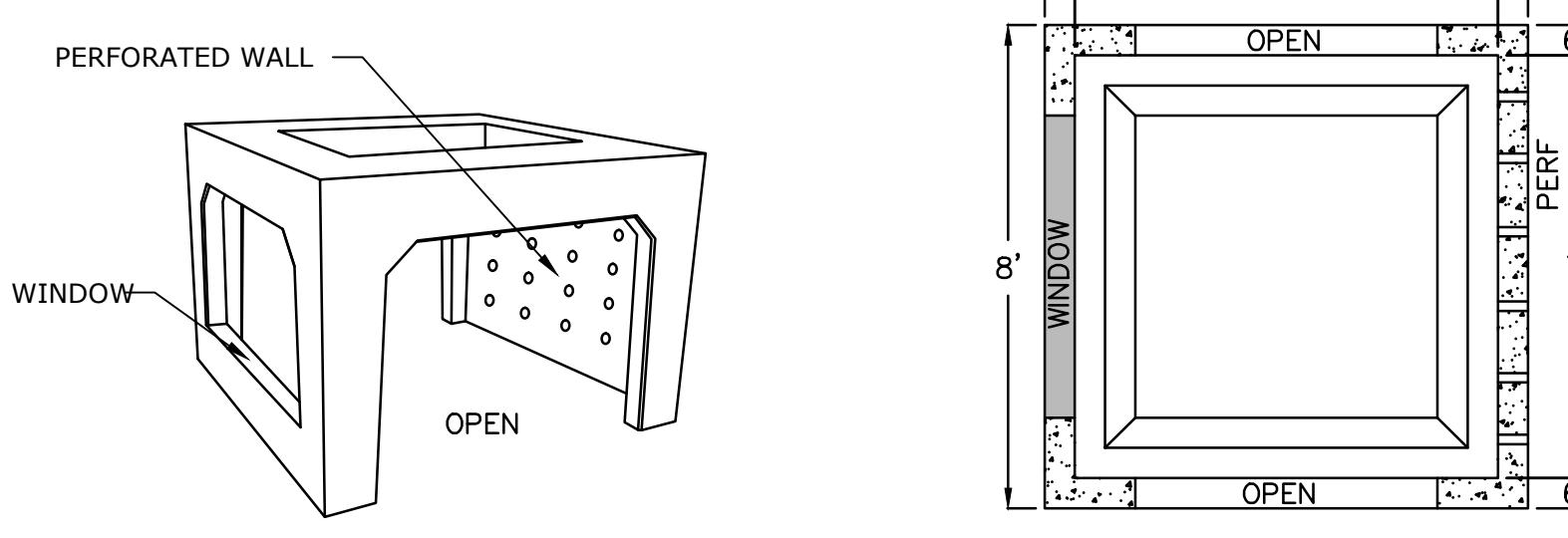
INFILTRATION SYSTEM - ELEVATION



TYPICAL CHAMBER ELEVATION

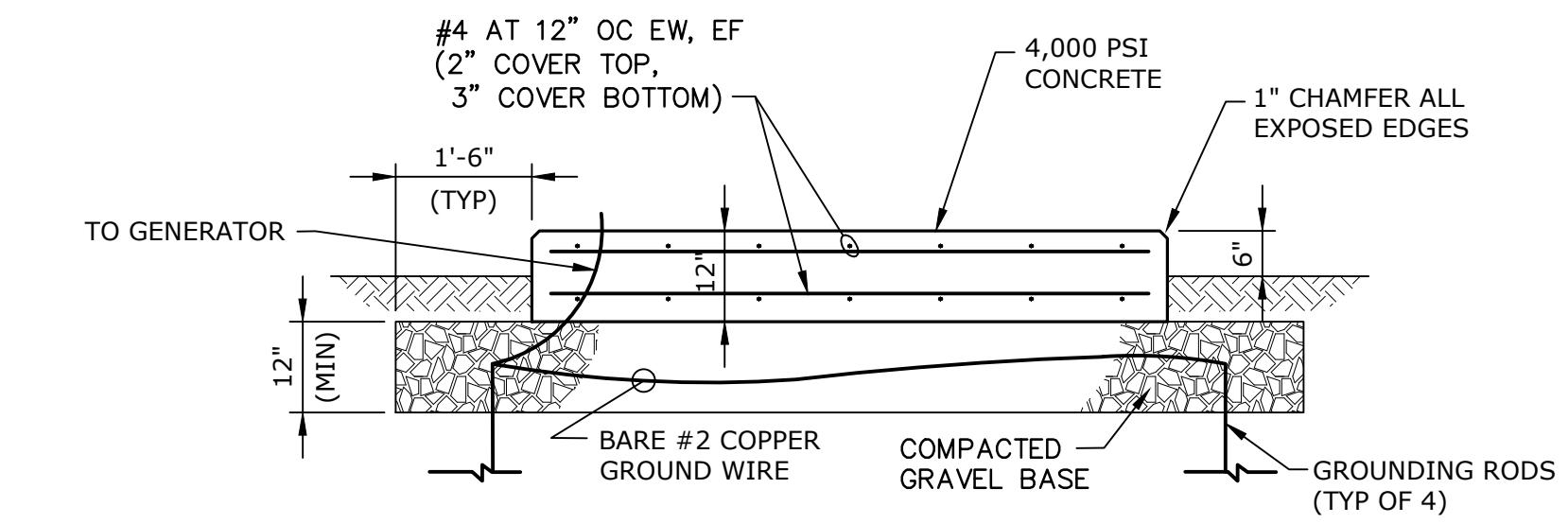


MULTI ROW CORNER CHAMBER



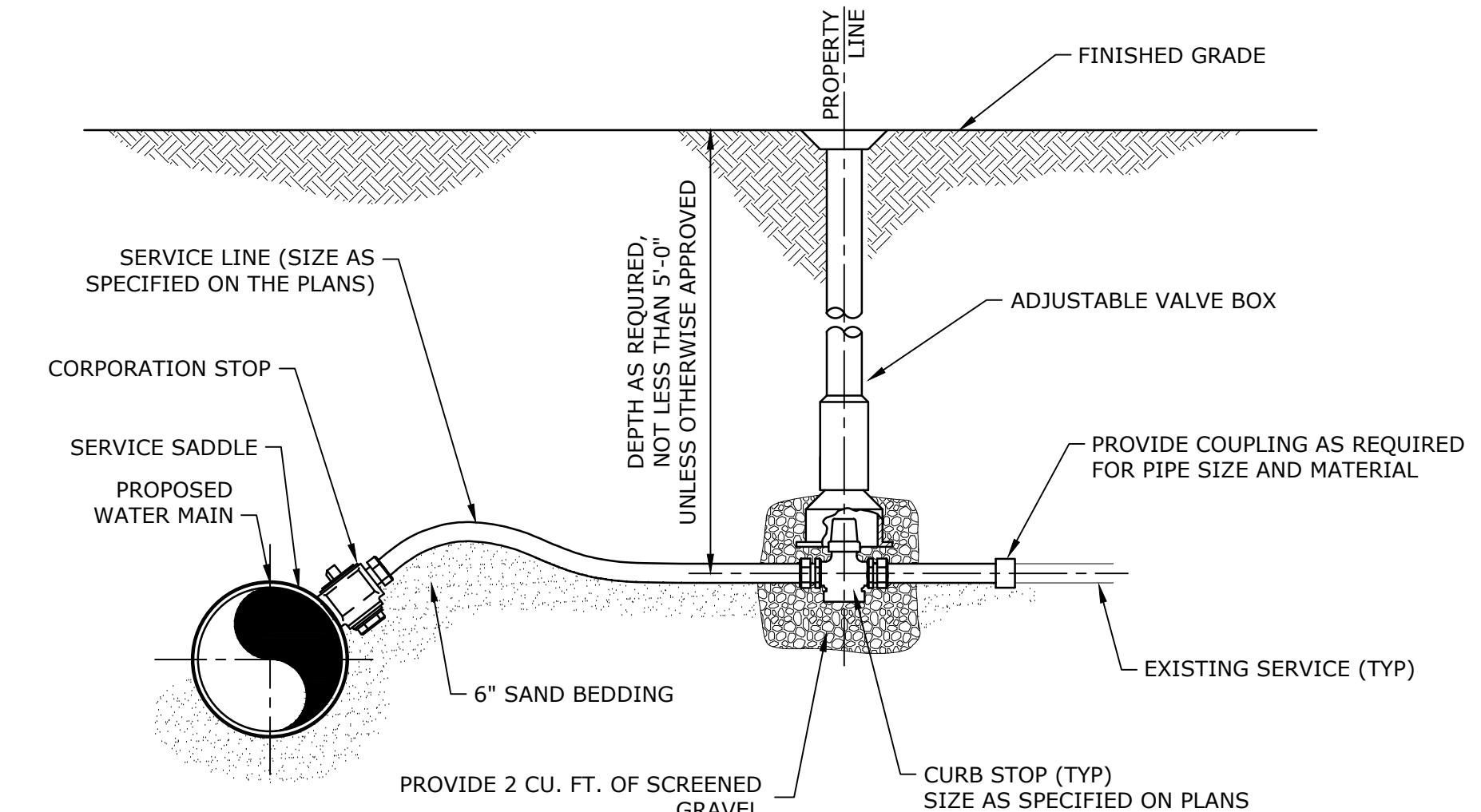
MULTI ROW PERIMETER CHAMBER

PRECAST CONCRETE INFILTRATION CHAMBERS



CONCRETE GENERATOR PAD

NO SE



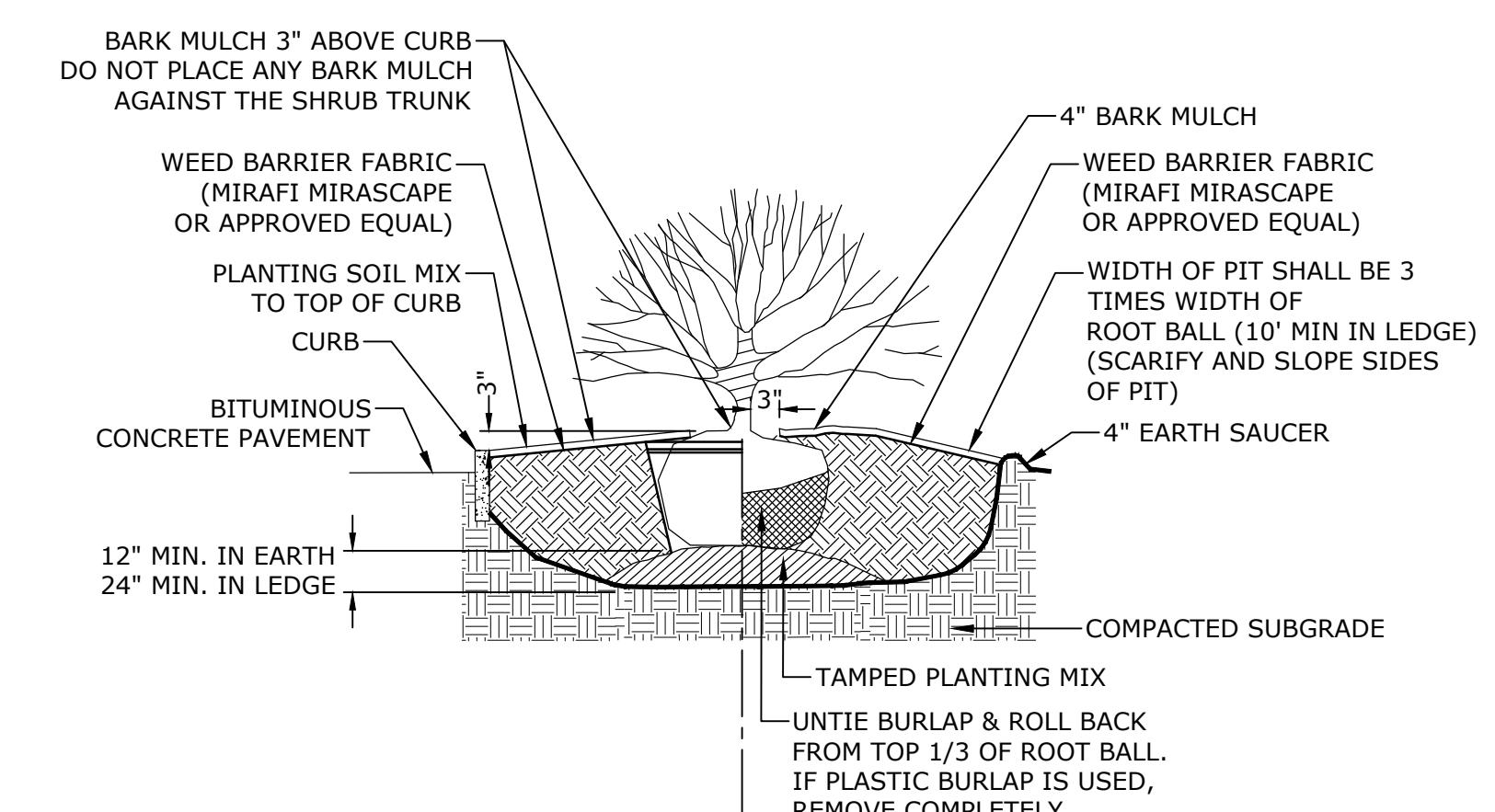
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Webster Water Department

Town of Webster, Massachusetts



SHRUB PLANTING DETAILS

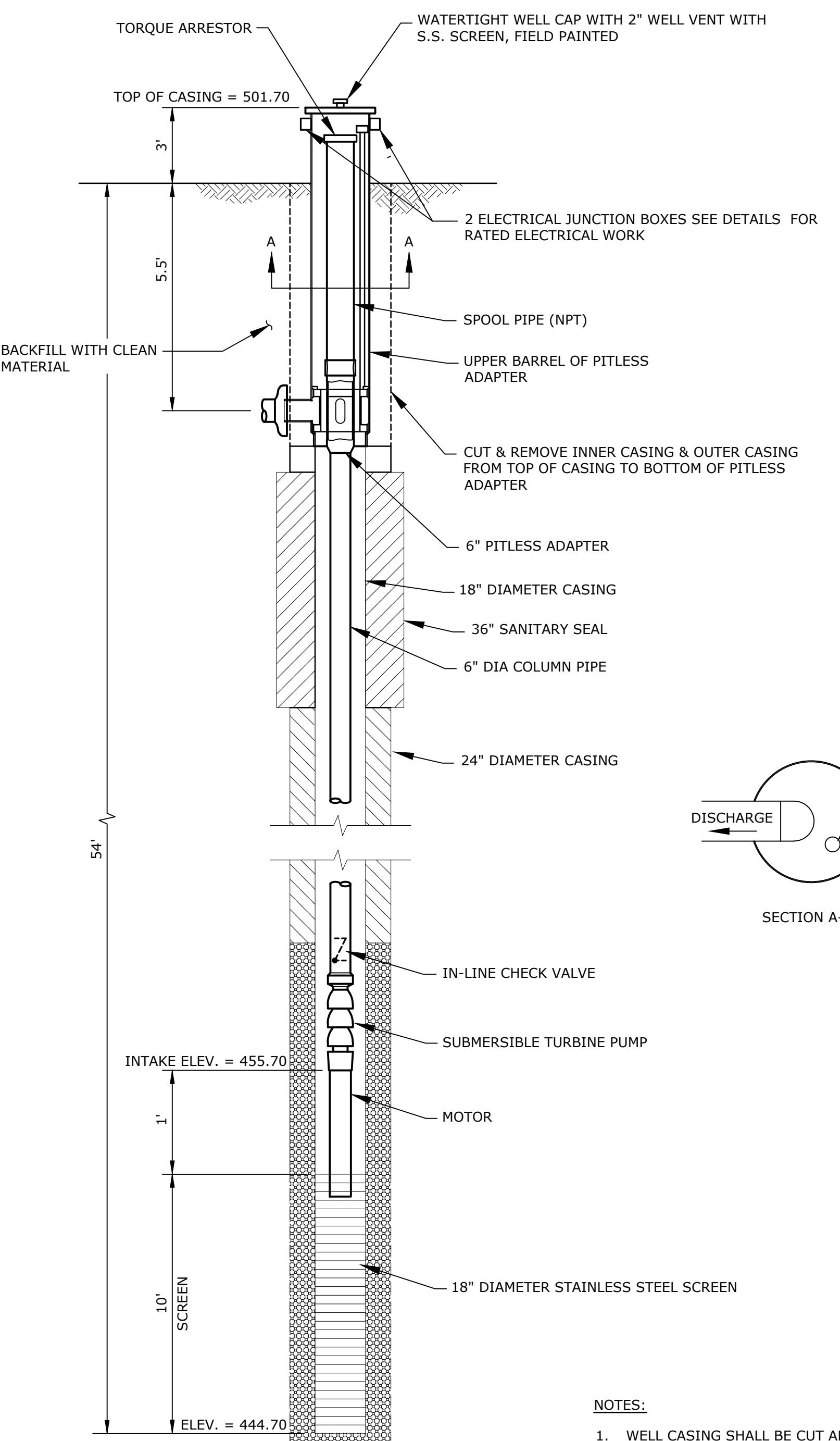
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PROJECT NO:		W5002-034-MB
DATE:		SEPTEMBER 5, 2023
FILE:		W5002-034-CS-MB-Site.dwg
DRAWN BY:		TCW
DESIGNED/CHECKED BY:		TJG/DMT
APPROVED BY:		

CIVIL DETAILS - 5

SCALE: NO SCALE

C-505



**WELLHEAD PITLESS ADAPTER CONNECTION
AND GRAVEL PACKED WELL 2A DETAIL**

NO SCALE

NOTES:

1. WELL CASING SHALL BE CUT AND CAPPED. A PITLESS ADAPTER SHALL BE INSTALLED AT CENTERLINE OF DISCHARGE AT 5'-6" BELOW LOCAL GROUND ELEVATION.
2. THE PITLESS ADAPTER SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. THE FINISHED GRADE FOR A RADIUS OF 5 FEET AROUND THE WELL CASING SHALL BE FILLED WITH A HIGH CLAY CONTENT LOAM TO A SLOPE OF ABOUT ONE INCH PER FOOT, COMPAKTED, FINE GRADED AND SEEDED.
4. CONTRACTOR SHALL PROVIDE A 1.5" PVC STILLING WELL TUBE WITHIN THE WELL FOR THE WELL LEVEL TRANSDUCER.

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DRAWN BY:	TCW	
DESIGNED/CHECKED BY:	TJG/DMT	
APPROVED BY:	-	

WELL 2A DETAILS

SCALE: NO SCALE

C-506



GENERAL FLOOR PLAN NOTES

- DO NOT SCALE PLANS. FIELD VERIFY AND COORDINATE ALL DIMENSIONS AND CONDITIONS SHOWN. REPORT ANY DISCREPANCIES OR DEVIATIONS TO THE ENGINEER.
- LAY OUT NEW PARTITIONS FOR THE ENGINEER'S REVIEW PRIOR TO ROUGH FRAMING OF WALLS. VERIFY COLUMN LOCATIONS AND COORDINATE WITH PARTITION LAYOUT.
- DIMENSIONS ARE FROM FACE OF MASONRY OR FACE OF STUD UNLESS NOTED OTHERWISE.
- SEE ACCESSIBILITY STANDARDS ON GENERAL ARCHITECTURAL SHEETS FOR CLEARANCES AND MOUNTING HEIGHTS OF TYPICAL ELEMENTS AND ACCESSORIES.
- ACCESSIBILITY CLEARANCES ON ACCESSIBLE ROUTES AND ACCESSIBLE DESIGNATED RESTROOMS SHALL TAKE PRECEDENCE OVER OTHER DIMENSIONS UNLESS NOTED OTHERWISE.
- AT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES, PROVIDE ADDITIONAL BLOCKING, FIRESTOPPING, AND/OR FIRESAFING AT BOTH SIDES OF THE ASSEMBLY TO MAINTAIN FIRE RATING REQUIRED BY CODE.
- PROVIDE ACCESS PANELS AS REQUIRED AT WALL AND CEILING LOCATIONS FOR ACCESS TO DUCTWORK, PIPING VALVES, CLEANOUTS, AND OTHER CONCEALED ITEMS FOR MAINTENANCE. WHERE ACCESS PANELS ARE REQUIRED IN FIRE RATED ASSEMBLIES, PROVIDE FIRE RATED ACCESS PANELS OF EQUAL RATING TO THE ASSEMBLY. COORDINATE LOCATIONS WITH STRUCTURAL, M/E/P, HVAC, AND FP DRAWINGS.
- SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF SURFACE MOUNTED AND CONCEALED WIRING (CONDUITS, JUNCTION BOXES, ETC.) COORDINATE WITH INSTALLATION OF OTHER SYSTEMS AND ROOM FINISHES AS REQUIRED.
- PROVIDE BLOCKING WHERE REQUIRED FOR WALL MOUNTED CABINETS, SHELVES, TOILET ACCESSORIES, AND FIXTURE COMPONENTS. COORDINATE BLOCKING LOCATIONS WITH THE ARCHITECTURAL FLOOR PLANS, INTERIOR ELEVATIONS, AND ACCESSIBILITY REQUIREMENTS DEMONSTRATED IN THE ARCHITECTURAL GENERAL DRAWINGS.
- PROVIDE SEPARATION AT DISSIMILAR METALS AND MATERIALS TO PREVENT GALVANIC ACTION.
- PAINT EXPOSED SURFACES EXCEPT WHERE FINISH SCHEDULES INDICATE THAT A SURFACE OR MATERIAL IS NOT TO BE PAINTED OR IS TO REMAIN UNFINISHED. IF THE FINISH SCHEDULE DOES NOT SPECIFICALLY MENTION AN ITEM OR SURFACE, FINISH THE ITEM OR SURFACE TO MATCH SIMILAR ADJACENT MATERIALS.
- ALL STRUCTURAL, M/E/P, HVAC, AND FP SYSTEMS SHOWN ON THE ARCHITECTURAL DRAWINGS ARE DEPICTED FOR GENERAL REPRESENTATION AND SHALL NOT TAKE PRECEDENCE OVER THE ENGINEER'S DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS.
- SEE ALTERNATES SCHEDULE IN THE SPECIFICATIONS FOR ADDITIONAL WORK DESCRIPTIONS.

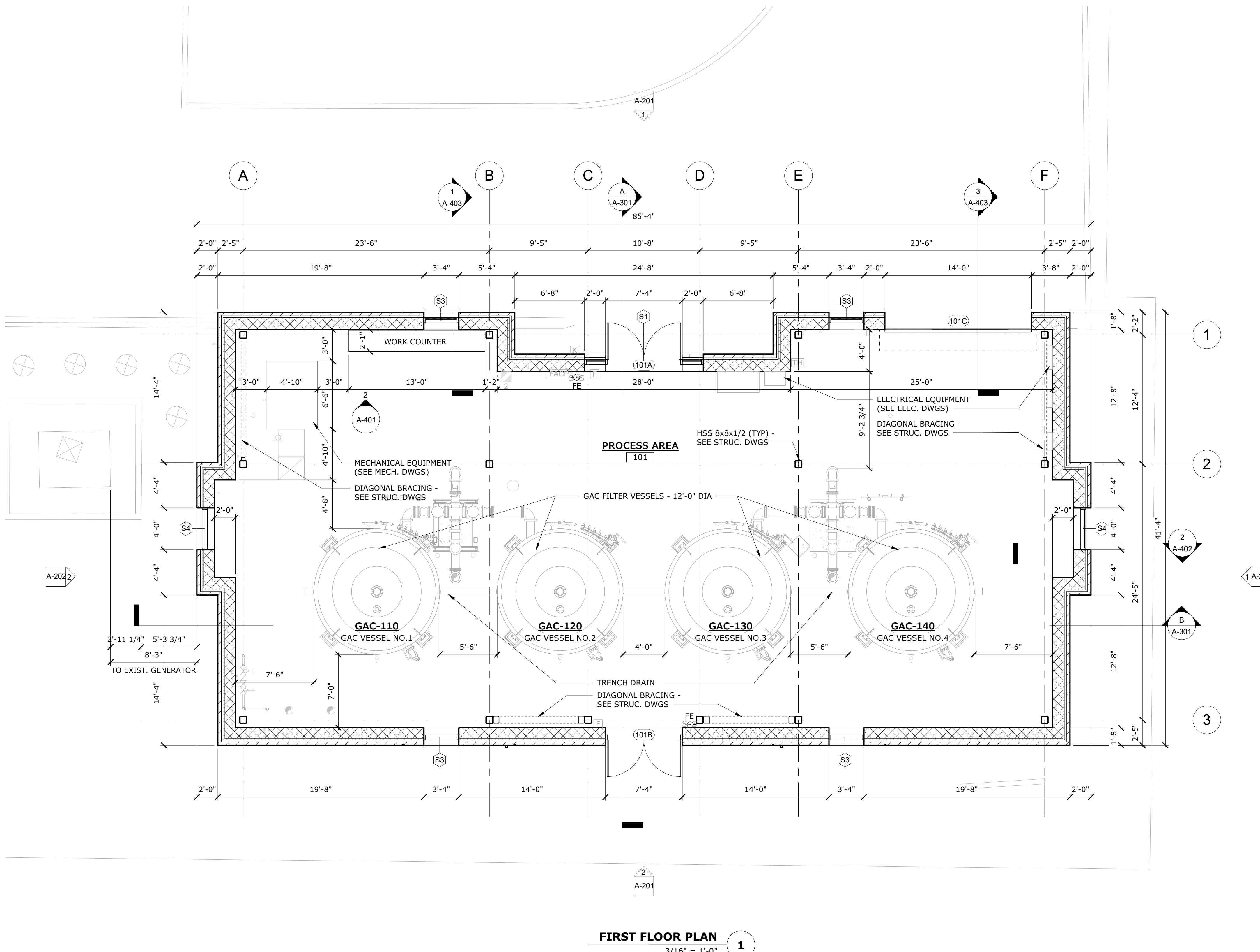
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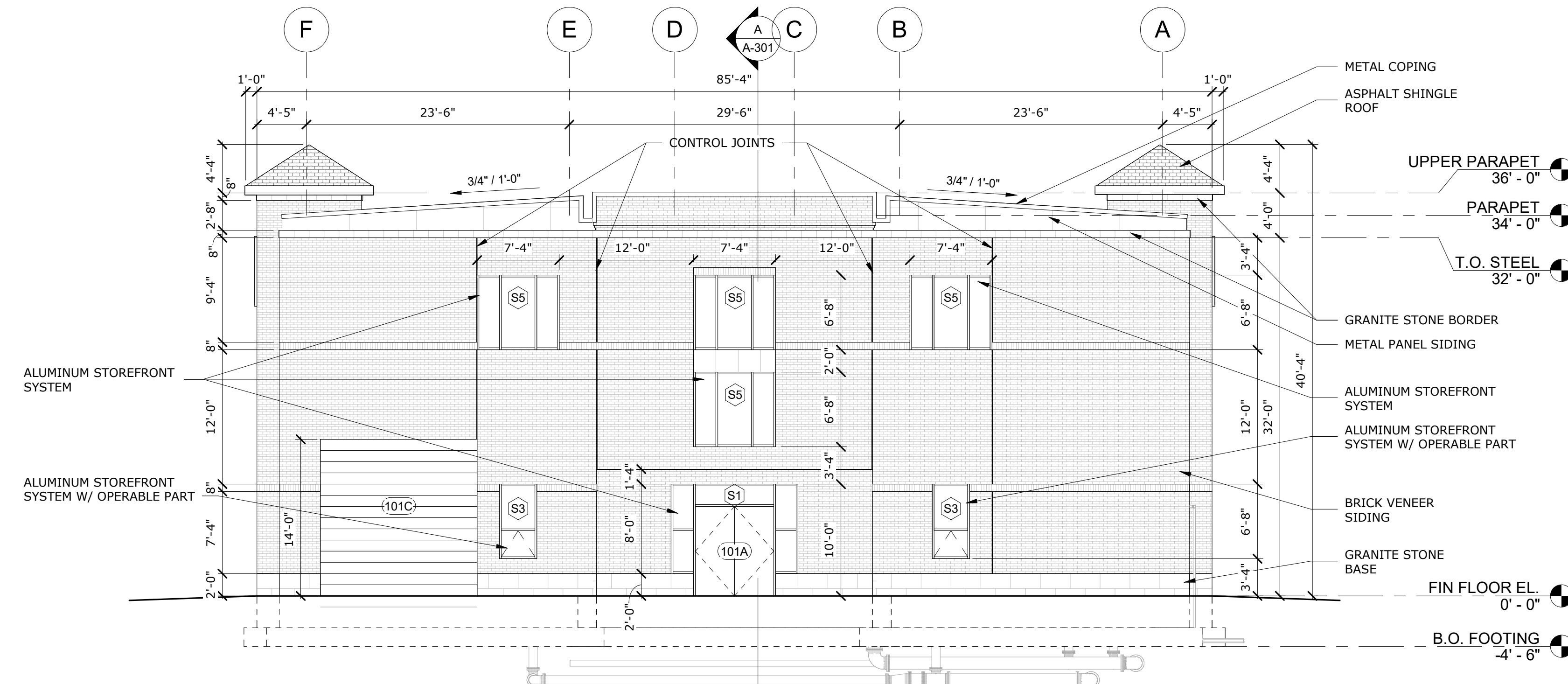
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MARK	DATE	PERMIT SET
PROJECT NO:	W5002-034-MB	DESCRIPTION
DATE:	SEPTEMBER 5, 2023	
FILE:	W5002-034-MB-A-101	
DRAWN BY:	AH - MI	
DESIGNED/CHECKED BY:	MI	
APPROVED BY:	-	
FIRST FLOOR PLAN		
SCALE:	AS SHOWN	
SCALE:	3/16"=1'-0"	
A-101		



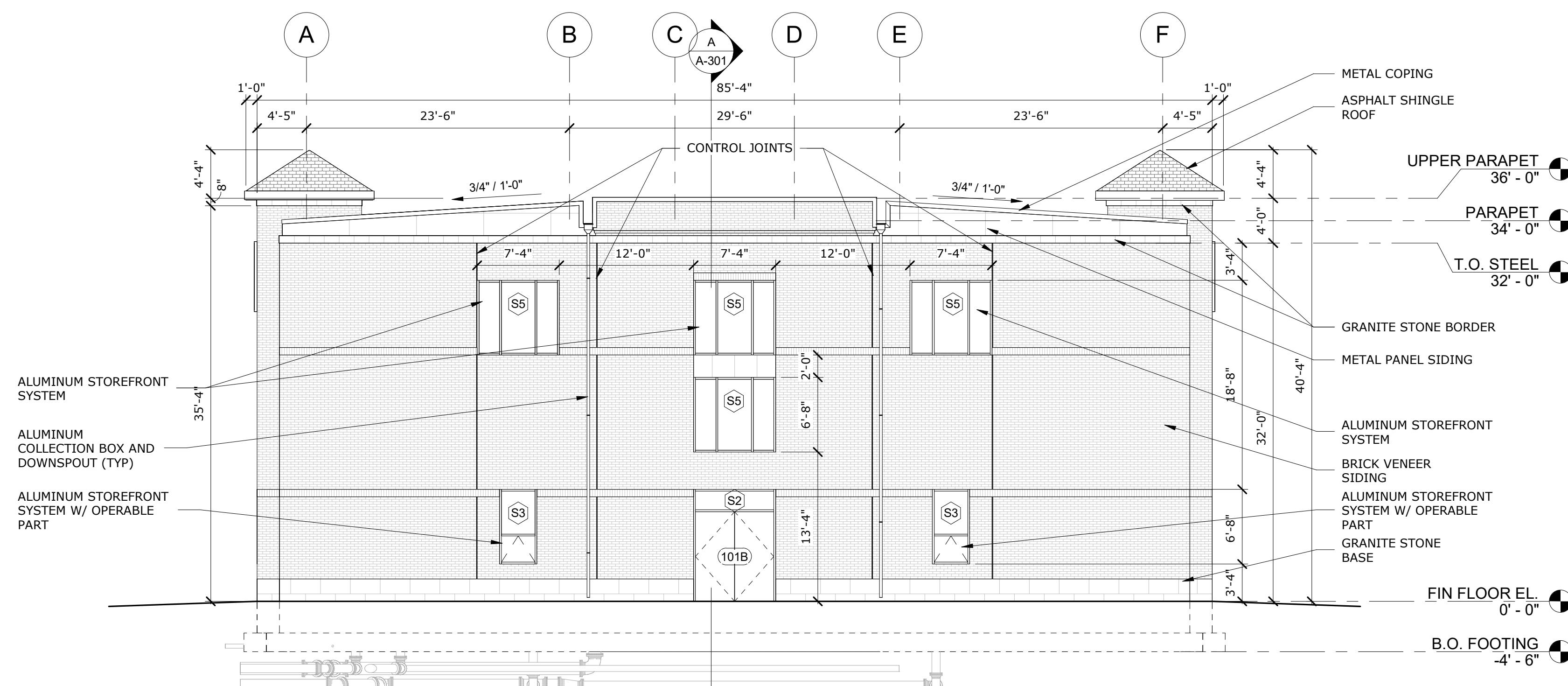
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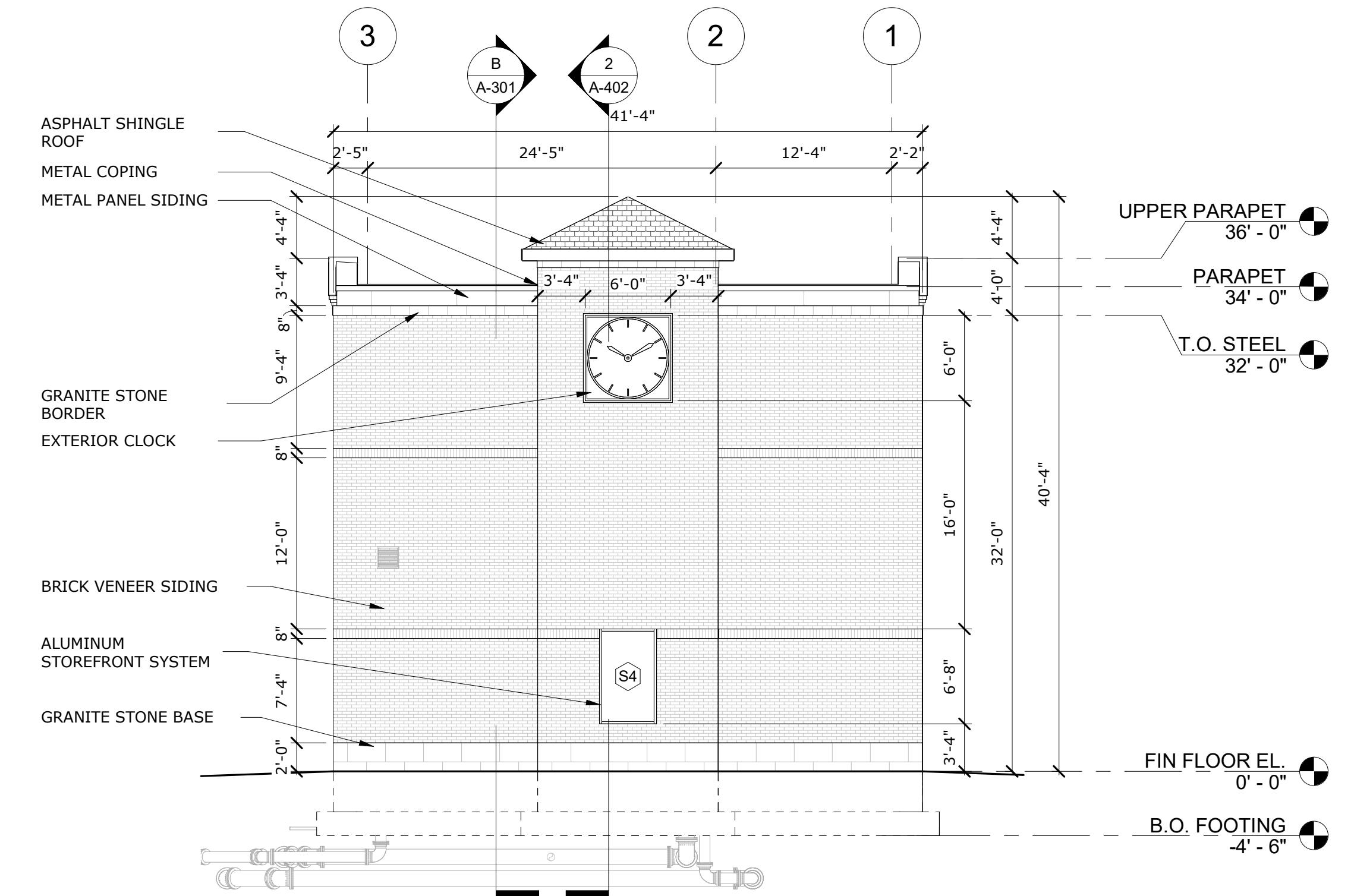
Town of Webster,
Massachusetts



SOUTH ELEVATION 2
1/8" = 1'-0" A-101

0 4' 8' 16'
SCALE: 1/8"=1'-0"

A-201



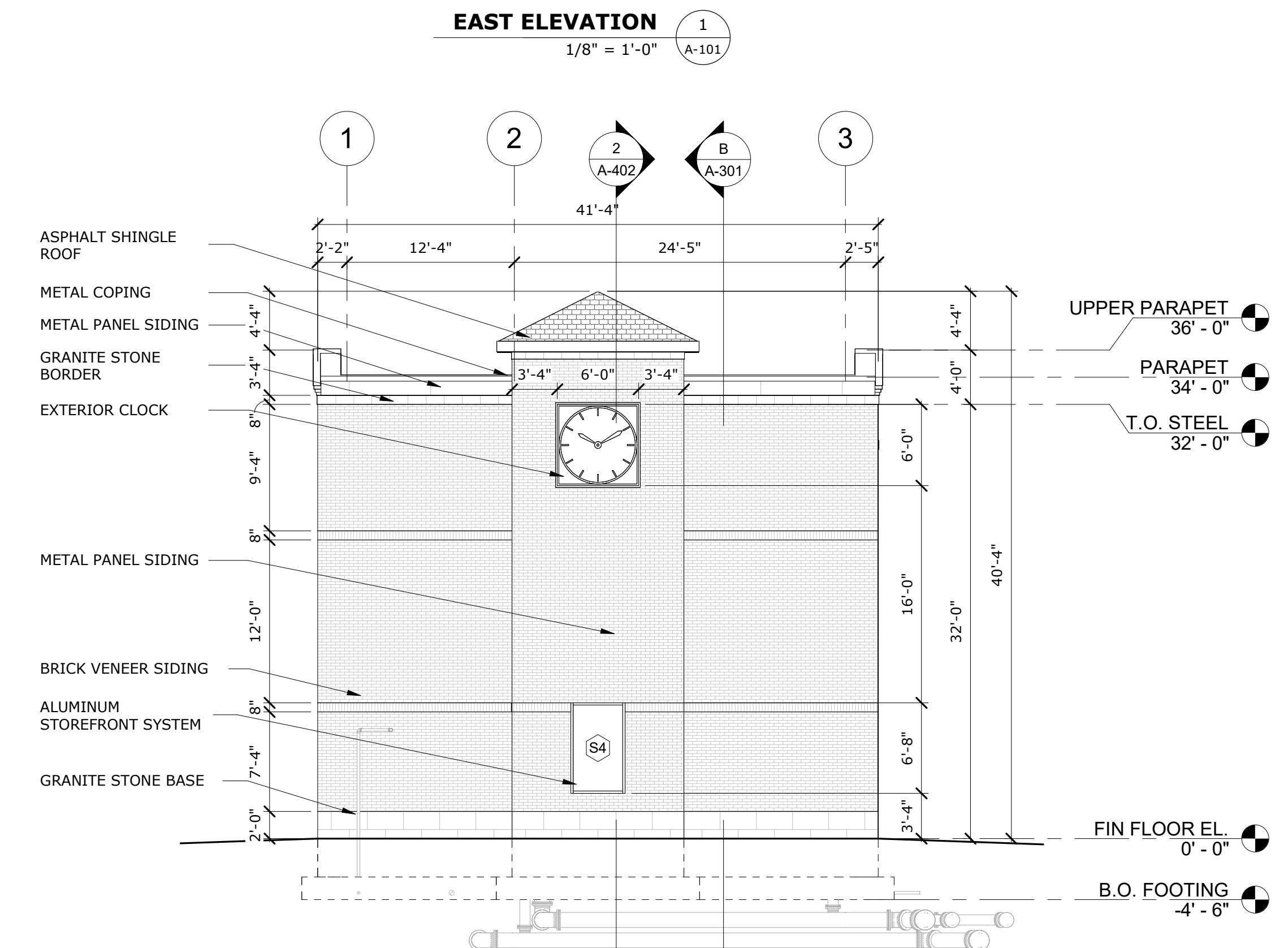
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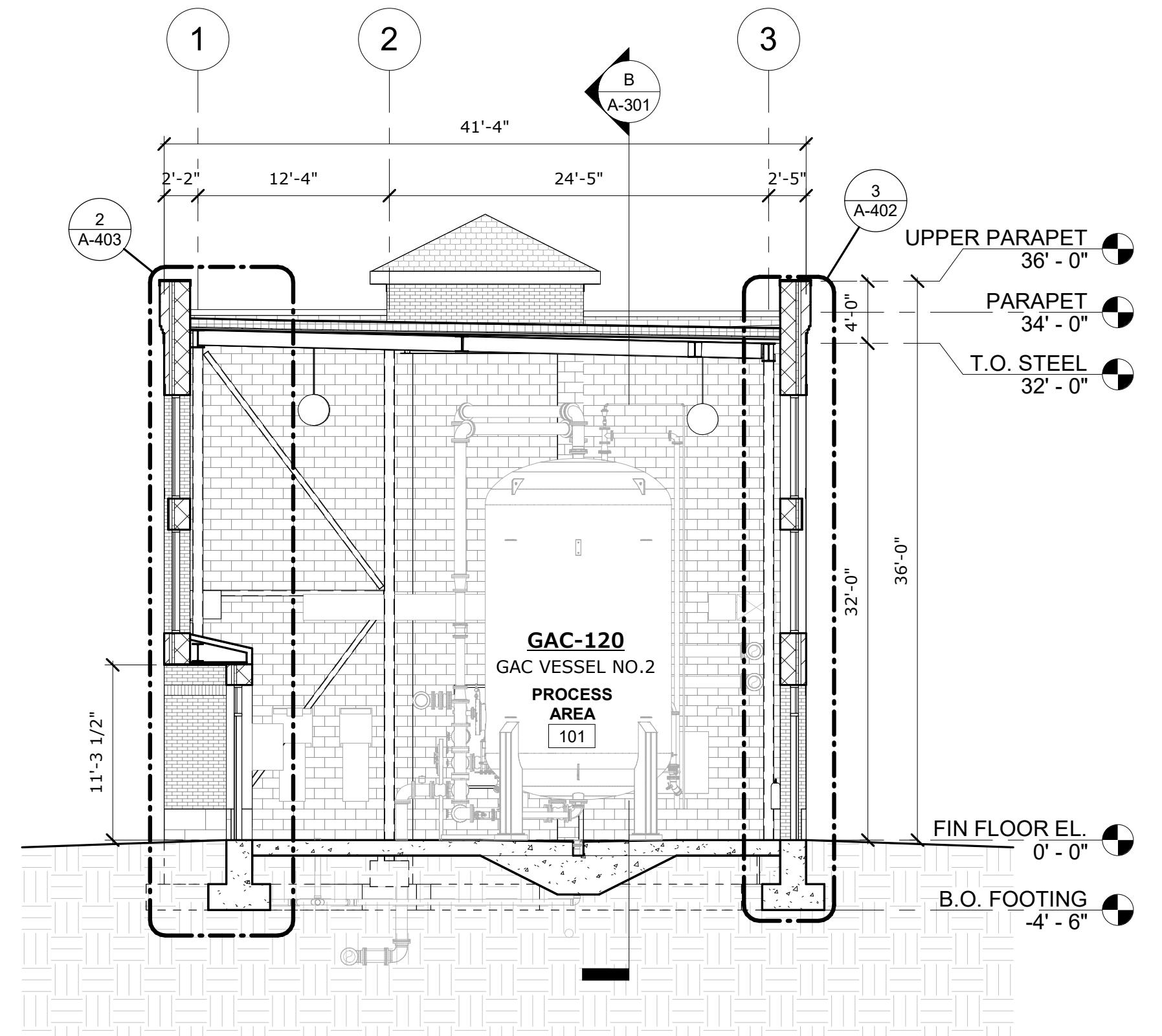
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WEST ELEVATION
1/8" = 1'-0" A-101

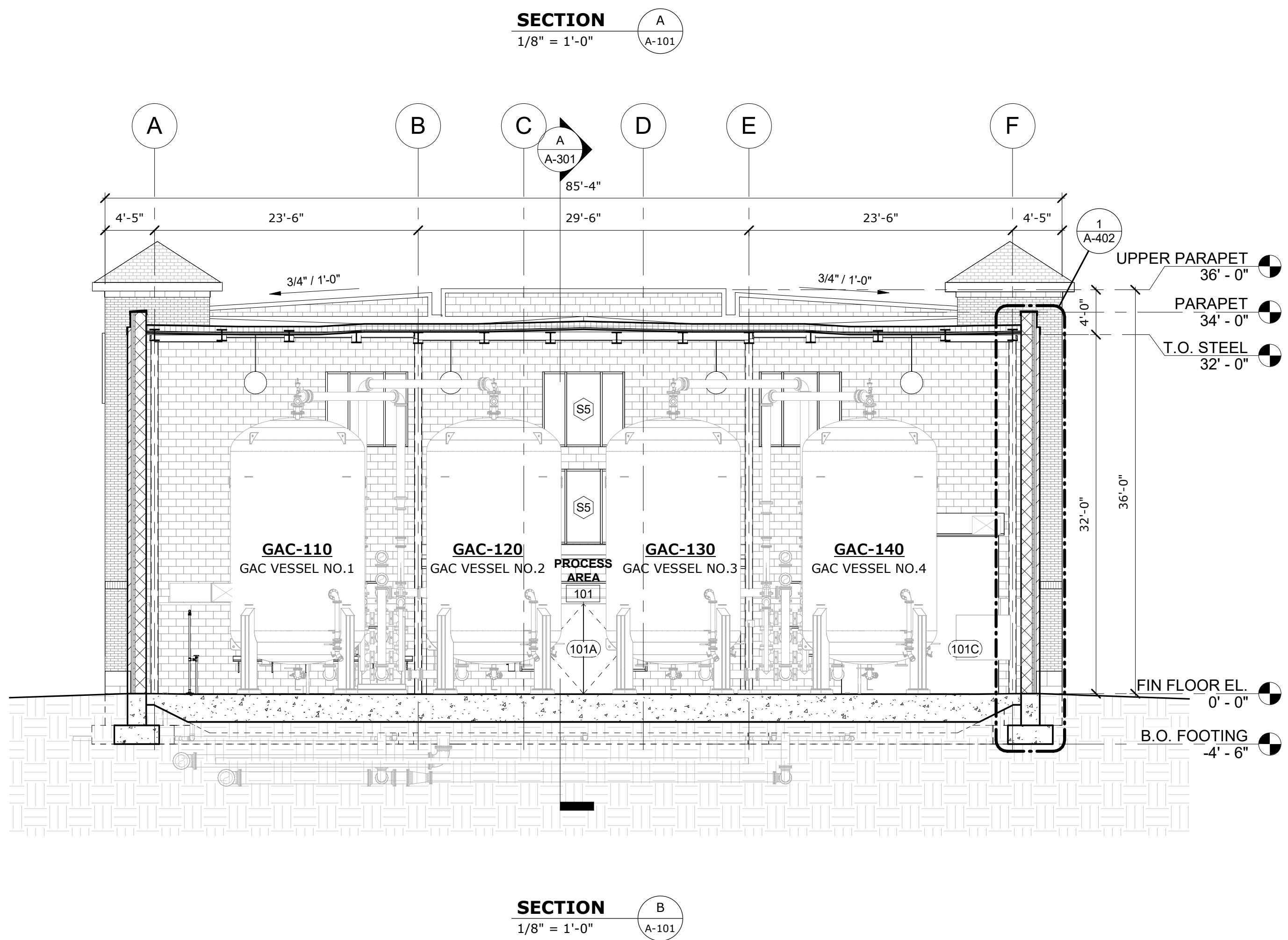
0 4' 8' 16'
SCALE: 1/8"=1'-0"

A-202



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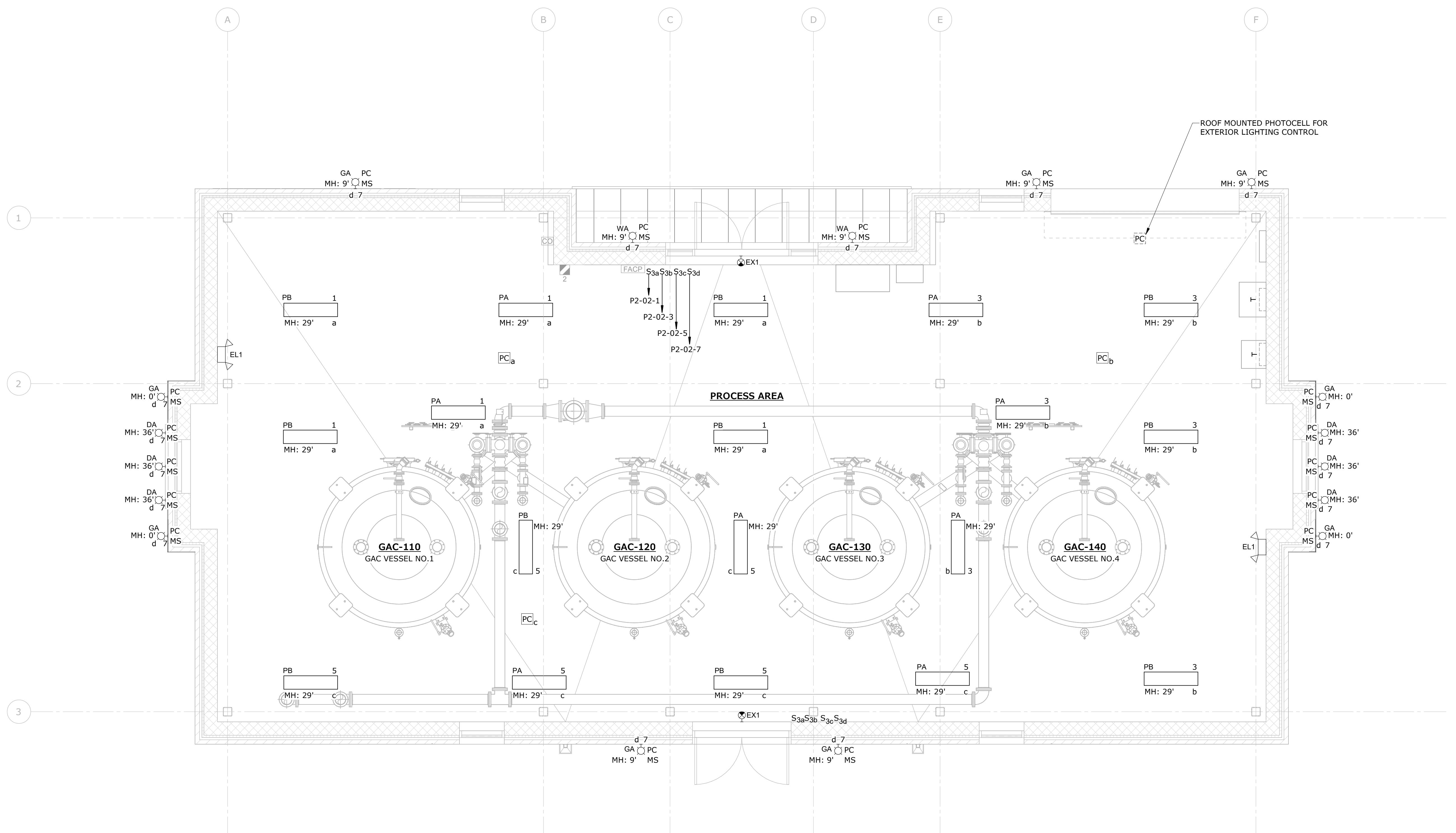
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PROJECT NO:	W5002-034-MB	
DATE:	SEPTEMBER 5, 2023	
FILE:	W5002-034-MB-A-301	
DRAWN BY:	AH - MI	
DESIGNED/CHECKED BY:	MI	
APPROVED BY:	-	
BUILDING SECTIONS		
SCALE:	AS SHOWN	
A-301		

0 4' 8' 16'
SCALE: 1/8"=1'-0"

**ELECTRICAL LIGHTING PLAN - WTP**

SCALE: 1/4" = 1'-0"

NOTES:

1. INTERIOR AND EXTERIOR LIGHTING SHALL HAVE THE ABILITY TO BE CONTROLLED BY TIMECLOCK AND SCHEDULES.
2. EXTERIOR LIGHTING SHALL BE CONTROLLED BY ROOF MOUNTED PHOTOCELL.
3. INTERIOR LIGHTING SHALL BE CONTROLLED VIA SWITCHES AND PHOTOCELL FOR DAYLIGHT HARVESTING. SET INTERIOR PHOTOCELLS TO 50FC.
4. COORDINATE LOCATION & MOUNTING HEIGHT OF EXTERIOR LIGHTING FIXTURES WITH WINDOWS PRIOR TO INSTALLATION.
5. THE ROOF-MOUNTED PHOTOCELL FOR EXTERIOR LIGHTING CONTROL SHALL BE POINTED NORTH.
6. COORDINATE LOCATION OF LIGHTING CONTROLS (INCLUDING SWITCHES AND PHOTOCELLS) WITH WINDOWS, STRUCTURAL SUPPORT BEAMS, AND PROCESS PIPING PRIOR TO INSTALLATION.

0 1' 2' 4' 8'
SCALE: 1/4"=1'-0"

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FILE:	W5002-034-B-E-201	
DRAWN BY:	JMH	
DESIGNED/CHECKED BY:	CST	
APPROVED BY:	-	

ELECTRICAL LIGHTING PLAN

- WTP

SCALE:

E-201