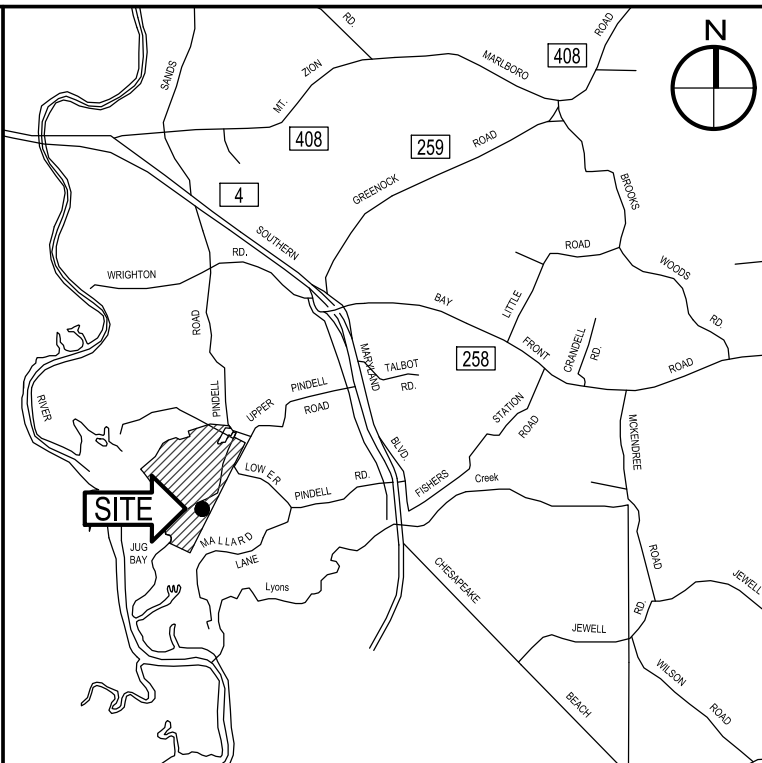




LOCUS AREA NOTE:
 WITHOUT THE EXPRESS WRITTEN CONSENT OF THE COUNTY (THROUGH THE OFFICE OF PLANNING AND ZONING'S CULTURAL RESOURCES DIVISION) THE OWNER OR MANAGER OF THE PROPERTY SHALL NOT CAUSE, PERMIT, OR SUFFER GRADING, EXCAVATION, FLOWING, SUBSIDING, DRAINAGE IMPROVEMENTS, OR OTHER UNDERTAKING OR ACTION THAT WOULD MATERIAL DISTURB THE SURFACE OR SUBSURFACE OF THE GROUND AREA WITHIN THE ARCHAEOLOGICAL SENSITIVE AREA, WHICH IS A SIGNIFICANT ARCHAEOLOGICAL RESOURCE, AS RECORDED WITH THE STATE OF MARYLAND, AND KNOWN AS 'BANSHEE'.



VICINITY MAP
 SCALE: 1" = 8,333'

W.B.C.M. SURVEY TRAVERSE CONTROL LISTING

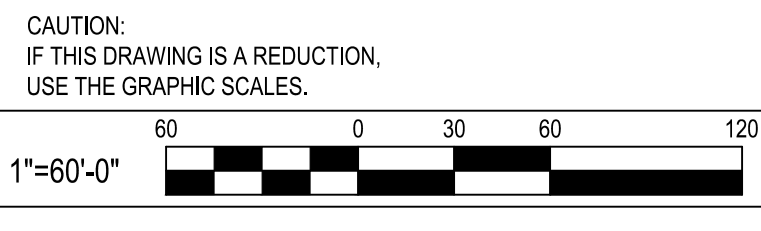
PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
900	401,006.25	1,401,312.80	81.86	REBAR & CAP
901	400,993.69	1,401,634.35	71.53	REBAR & CAP
902	400,760.96	1,401,570.06	65.44	REBAR & CAP
903	400,752.13	1,401,337.25	65.34	REBAR & CAP
904	400,834.20	1,400,743.56	79.34	REBAR & CAP

- GENERAL NOTES**
- THIS PLAT IS BASED UPON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY WBCM IN APRIL, 2022 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.
 - COORDINATES AND DIRECTIONS SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83/2011 AS DETERMINED FROM REAL TIME KINEMATIC SURVEYING AS BROADCAST BY THE LEICA SMARTNET NETWORK.
 - ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY R.T.K. G.P.S. OBSERVATIONS AS BROADCAST BY THE LEICA SMARTNET NETWORK(GEOD18).
 - ADDITIONAL SPOT ELEVATIONS RESIDE IN THE ELECTRONIC VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.
 - THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLELY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.
 - THE WORDS "CERTIFY" OR "CERTIFICATION" AS USED HEREON ARE UNDERSTOOD TO BE AN EXPRESSION OF M PROFESSIONAL OPINION BY THE UNDERSIGNED SURVEYOR, BASED UPON HIS BEST KNOWLEDGE, INFORMATION, AND BELIEF. AS SUCH, IT DOES NOT CONSTITUTE A GUARANTEE NOR A WARRANTY, EXPRESSED OR IMPLIED.

LEGEND

DESCRIPTION	EXISTING
BUILDING	EX. BLDG
BITUMINOUS CONCRETE PAVING	EX. MACADAM
PORTLAND CEMENT CONCRETE	EX. CONC.
PERVIOUS PAVERS	
EX. WOODS	
EX. WHIP PLANTINGS	
CLEAN OUT	
DRAIN INLET	
UTILITY POLE	
SIGN	
TRAVERSE STATION	900
SPOT ELEVATION	70.5
MAJOR CONTOUR	70
MINOR CONTOUR	76
CONC. CURB	
O/H ELECTRIC	OHE
UG ELECTRIC	E
UG STORM	D
UG WATER	W
UG TELEPHONE	T
SOIL BORING	B#
SOIL TYPES	PIC (A) GaB (A)
PROPERTY LINE	
SURVEY LIMITS	
FENCE	X
WELL	
LIMITS OF DISTURBANCE	LOD

PROPERTY OWNER: ANNE ARUNDEL COUNTY DEPT. OF PUBLIC WORKS
 DEED: 14509/00215
 MAP: 0075; GRID: 0018; PARCEL: 0006



WHITNEY BAILEY COX & MAGNANI, LLC
 300 East Joppa Road, Suite 300
 Baltimore, MD 21286
 410.512.4500 www.wbcm.com

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 # 27734, Expiration Date: 07/12/24

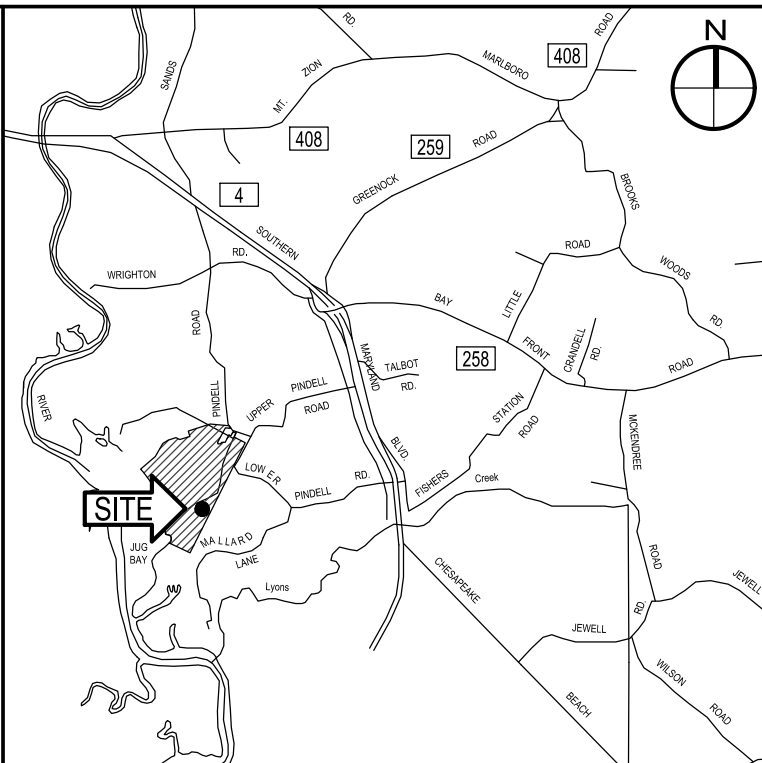
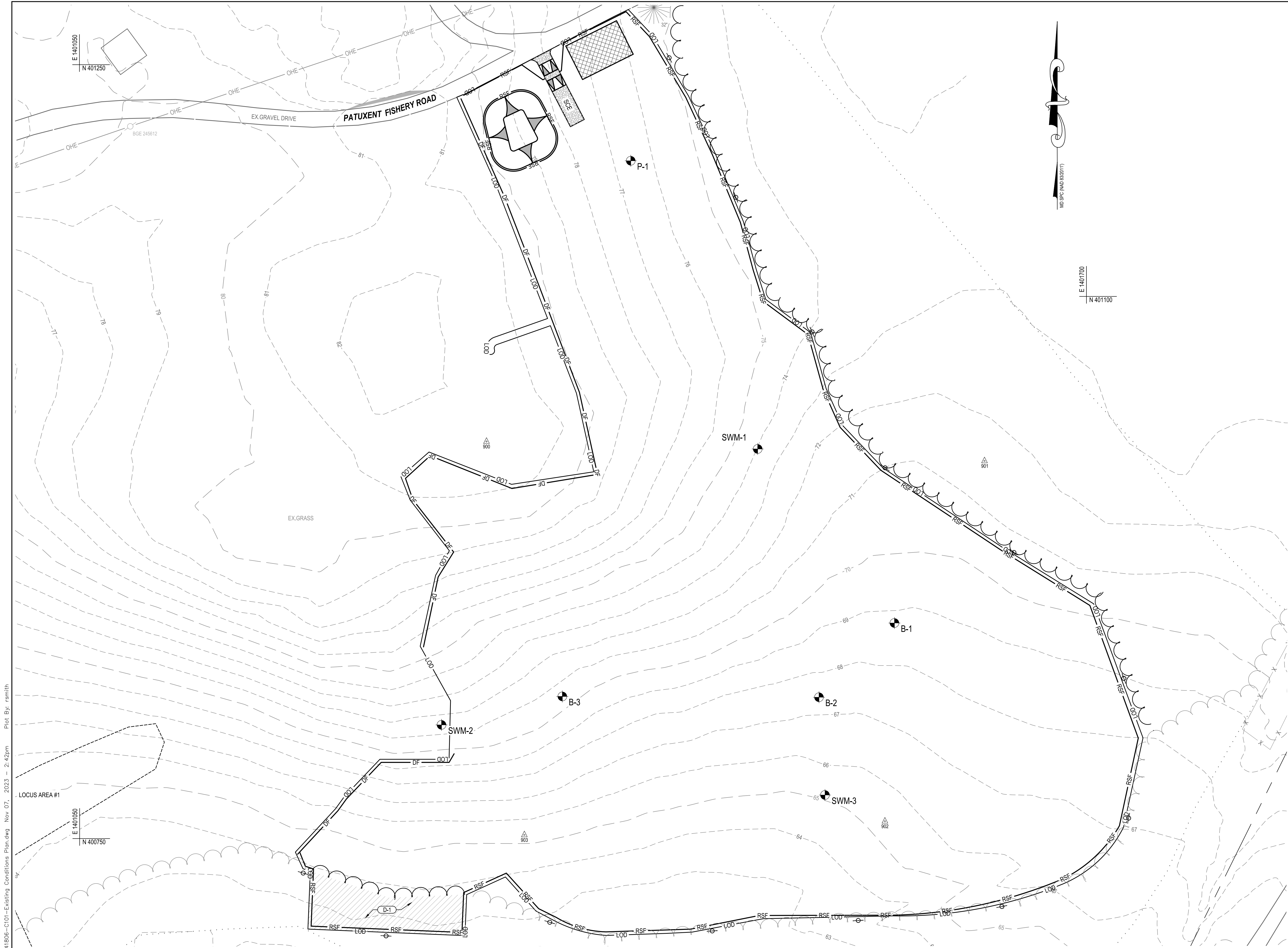
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE	SCALE: 1" = 60'
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APPROVED	DATE	APPROVED	DATE	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY		SHEET NO. 02 OF 63
				PROJECT NO.: P584501
				CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
OVERALL EXISTING CONDITIONS PLAN
C100

P:\2017\17141806\Drawings\07-Site\17141806-C100-Existing Conditions Plan.dwg Nov 07, 2023 - 2:40pm Plot By: remith



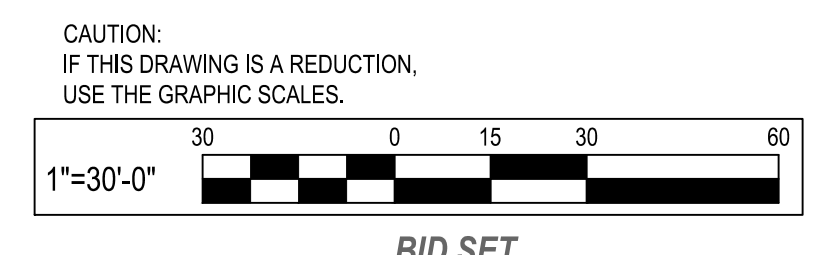
DEMOLITION NOTES
 D-1 REMOVE EXISTING TREES.

LEGEND

DESCRIPTION	EXISTING	DEMOLISH
BUILDING	EX. BLDG	
BITUMINOUS CONCRETE PAVING	EX. MACADAM	
PORTLAND CEMENT CONCRETE	EX. CONC.	
PERVIOUS PAVERS		
EX. WOODS		
EX. WHIP PLANTINGS		
CLEAN OUT		
DRAIN INLET		
UTILITY POLE		
SIGN		
TRAVERSE STATION		
SPOT ELEVATION		
MAJOR CONTOUR		
MINOR CONTOUR		
CONC. CURB		
O/H ELECTRIC	OHE	
U/G ELECTRIC	E	
U/G STORM	D	
U/G WATER	W	
U/G TELEPHONE	T	
SOIL BORING	BR	
SOIL TYPES	PIC (A)	
PROPERTY LINE	GalB (A)	
SURVEY LIMITS		
FENCE	X	
WELL	W	
LIMITS OF DISTURBANCE	LOD	
STEEP SLOPES (25% OR GREATER)		

SEDIMENT CONTROL LEGEND

STABILIZED CONSTRUCTION ENTRANCE	
LIMIT OF DISTURBANCE	LOD
REINFORCED SILT FENCE	RSF
DIVERSION FENCE	DF
CONTRACTOR STAGING AREA	
TEMPORARY STOCKPILE AREA	



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WBCM
 A DIVISION OF TRANSYSTEMS

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 Baltimore, MD 21286
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 License # 27734 Expiration Date: 07/12/24

REVISIONS			
NO.	DESCRIPTION	BY	DATE

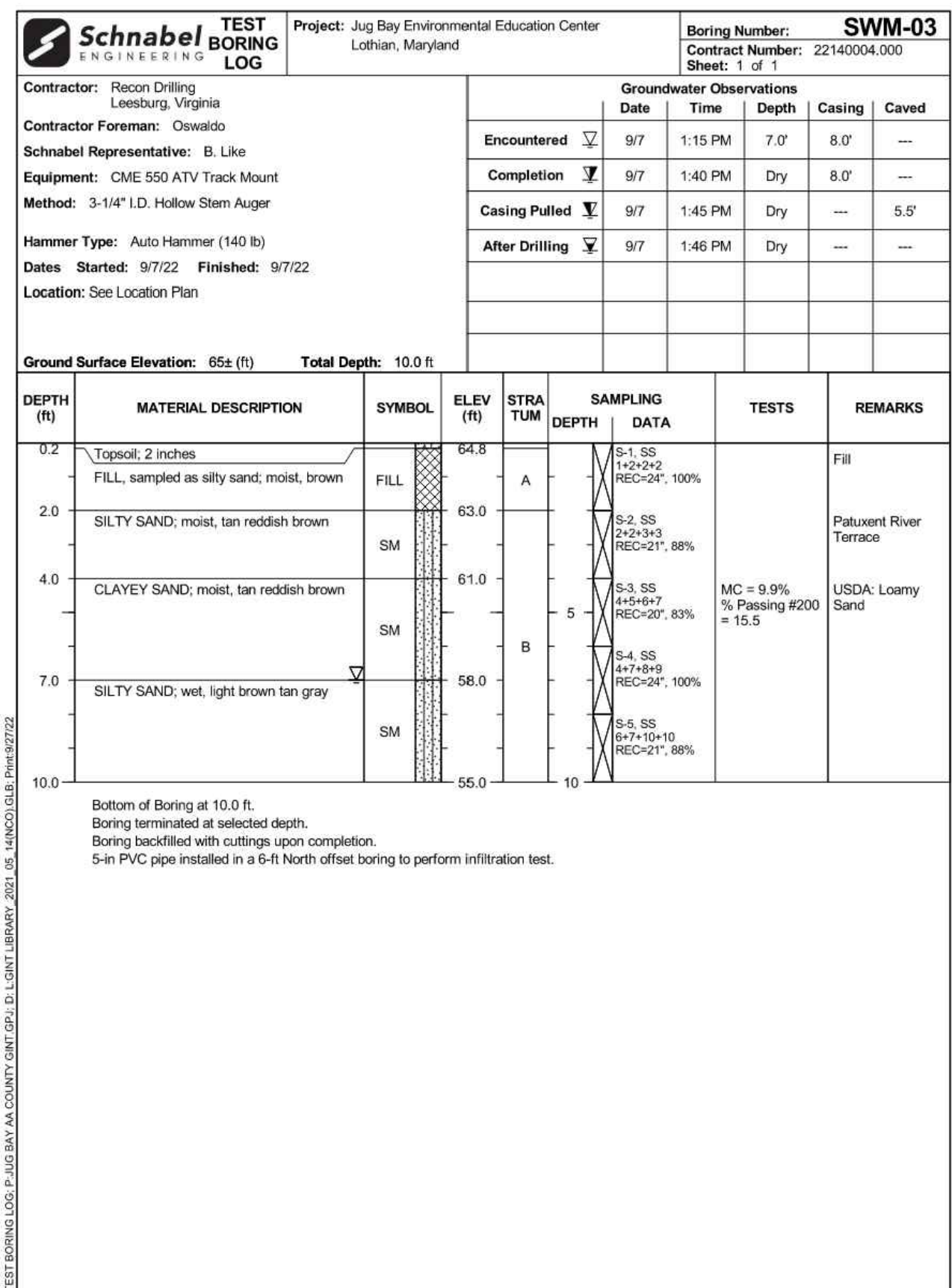
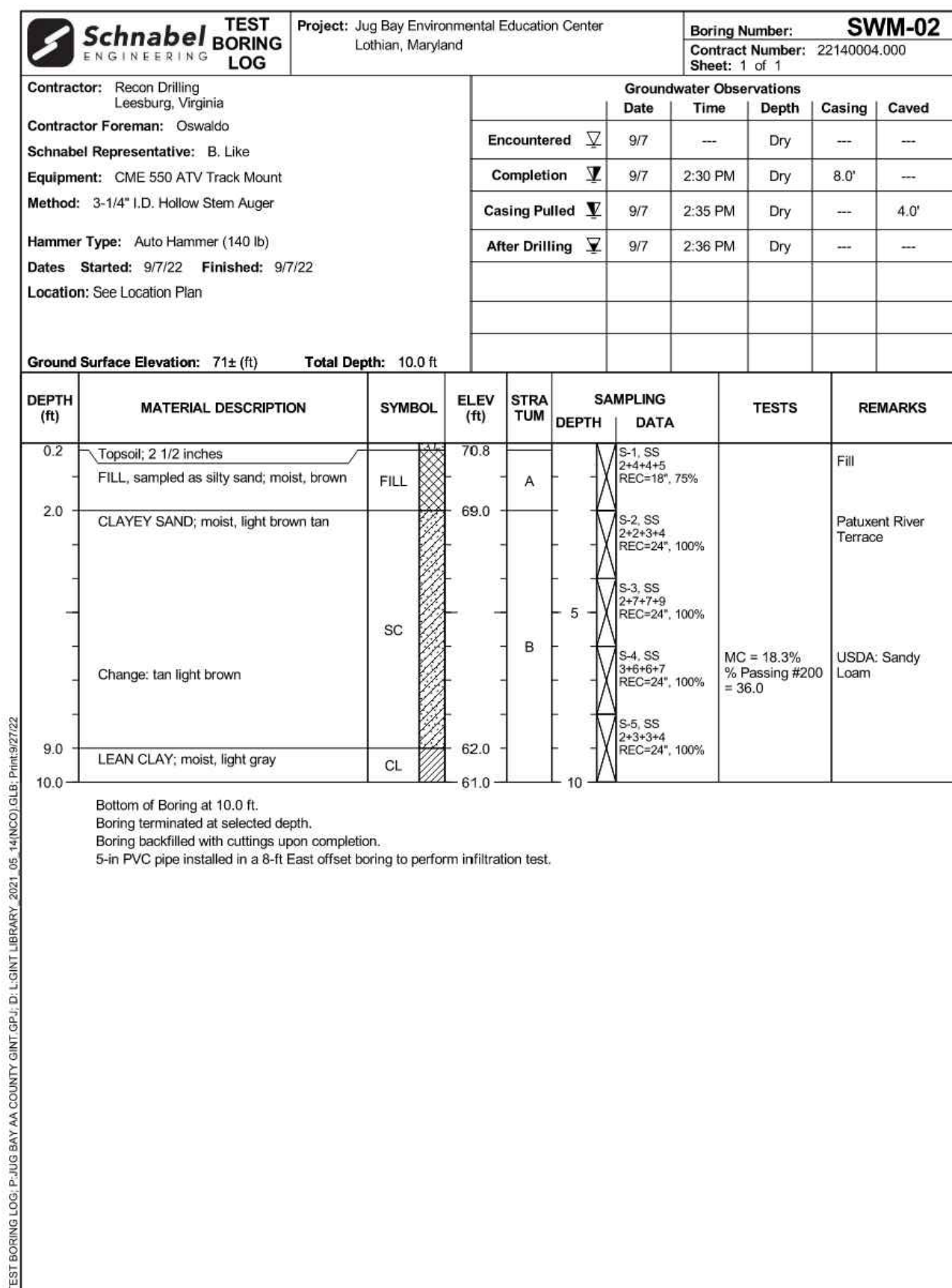
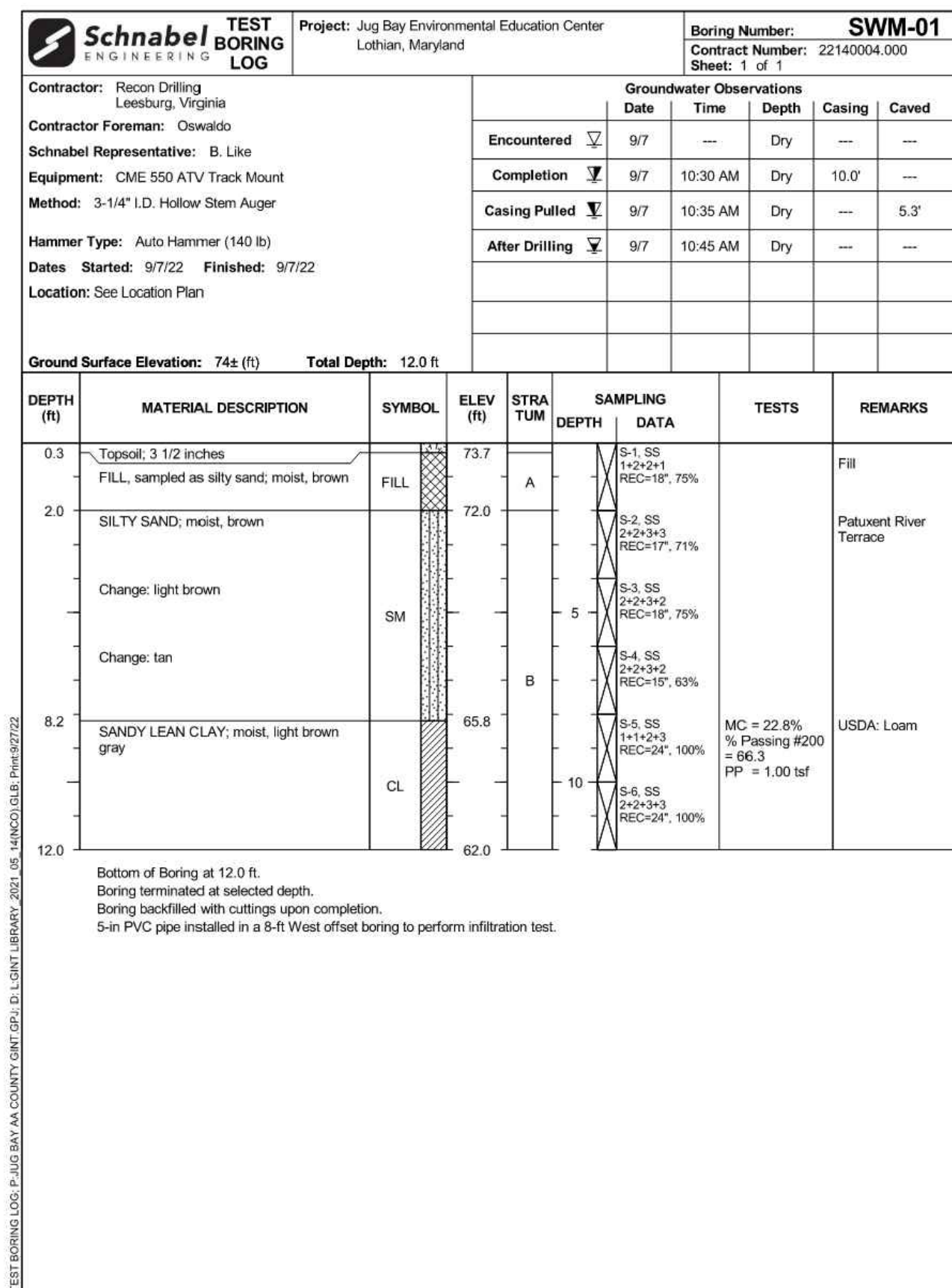
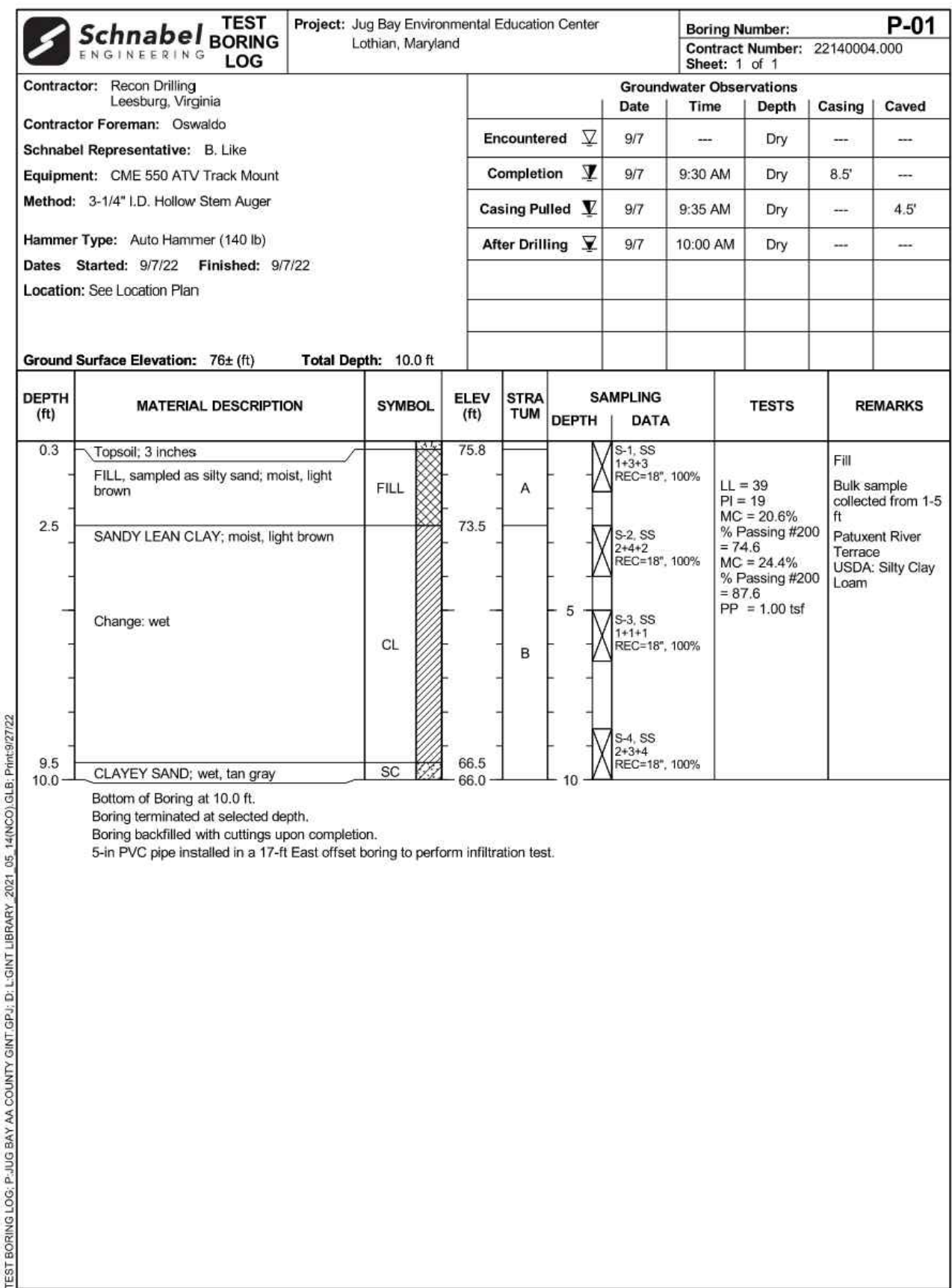
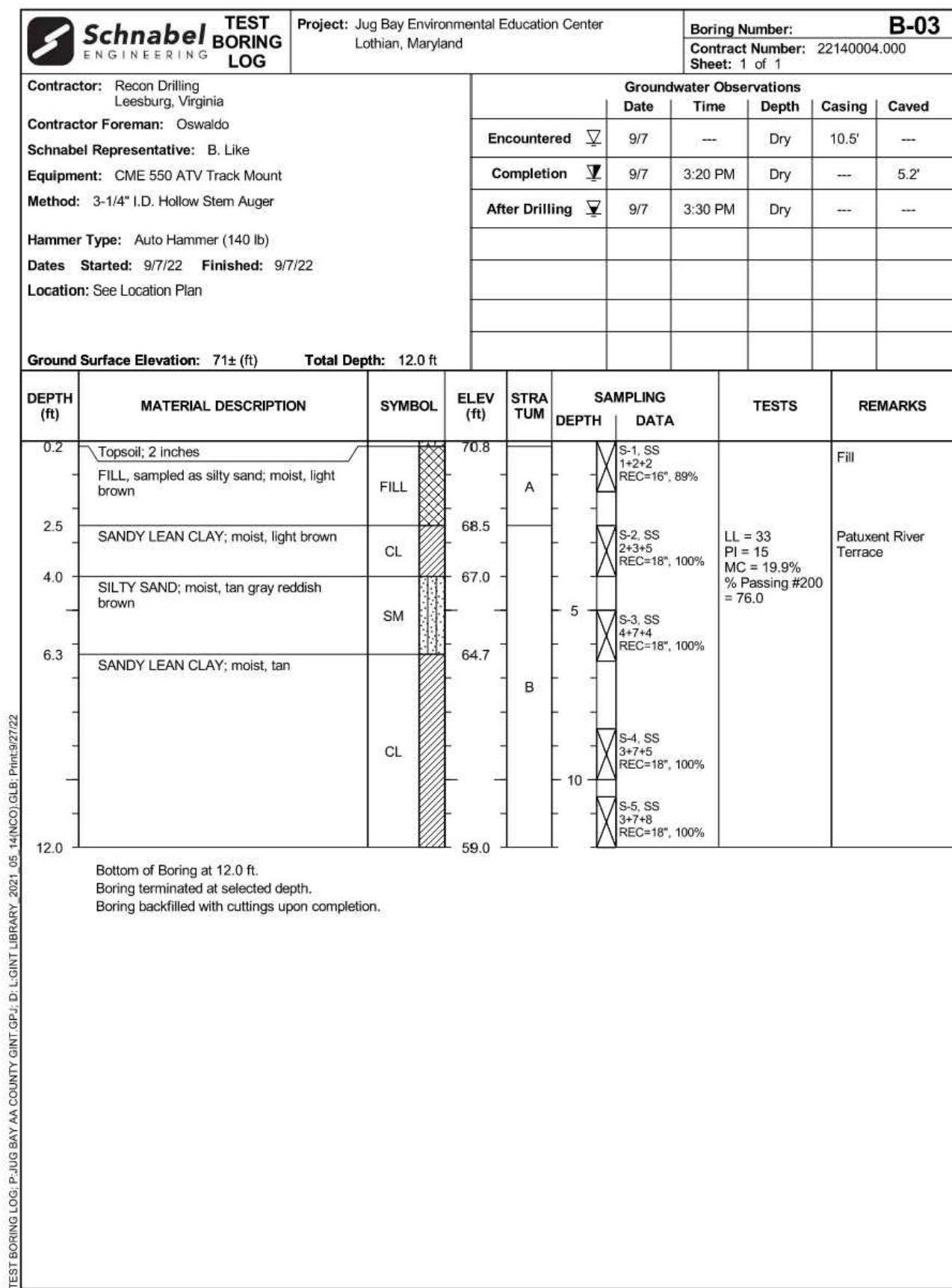
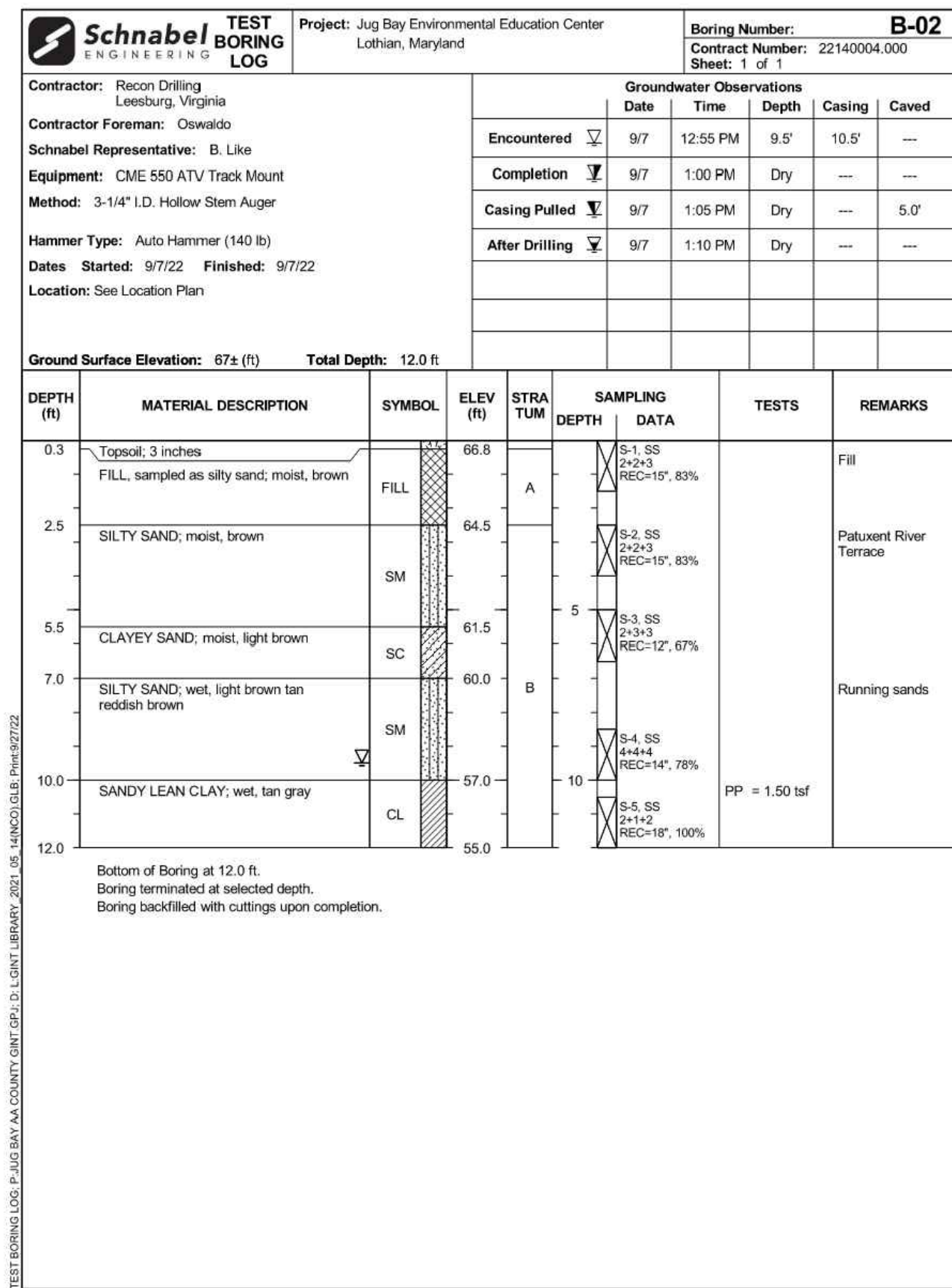
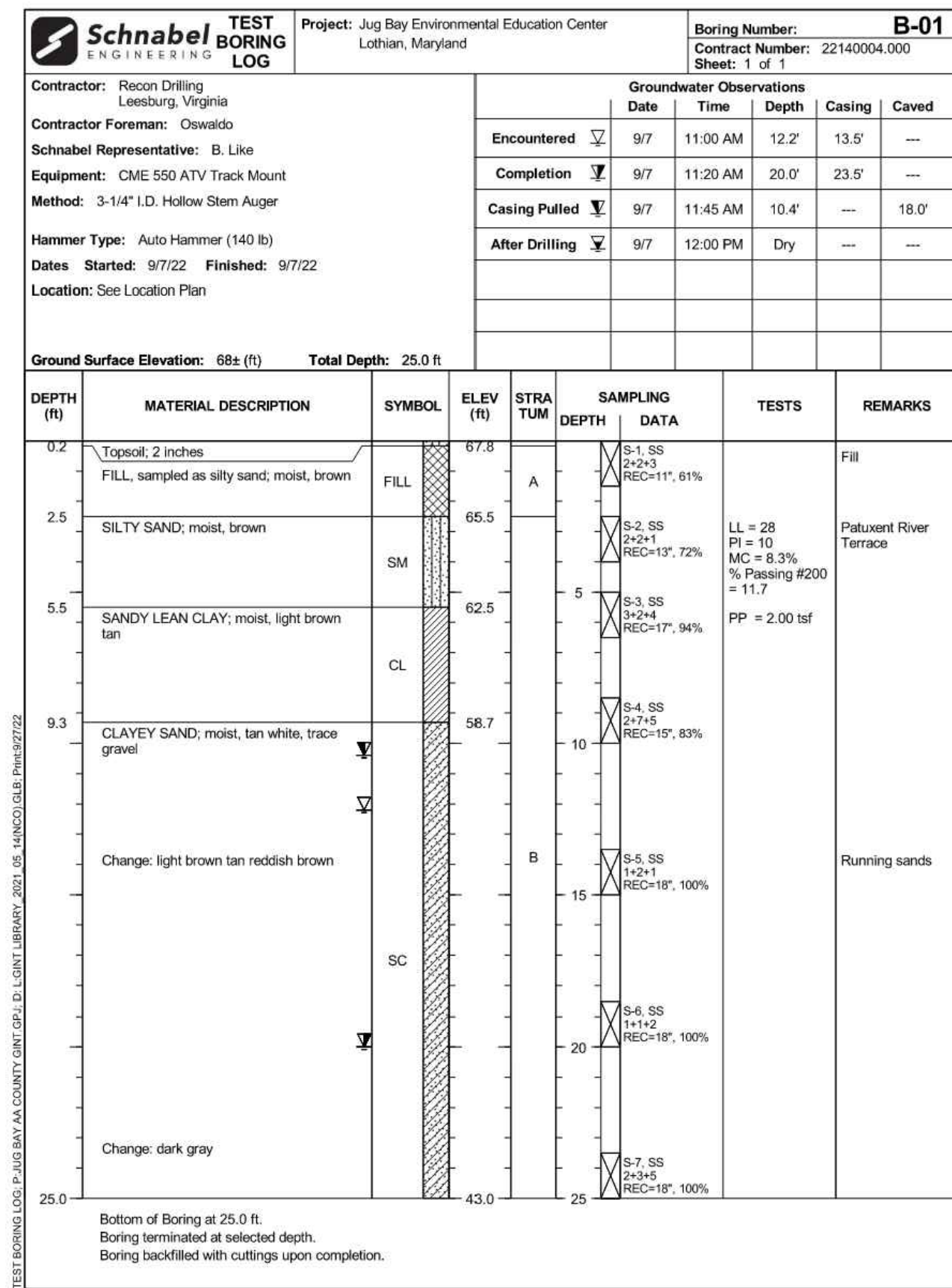
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

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

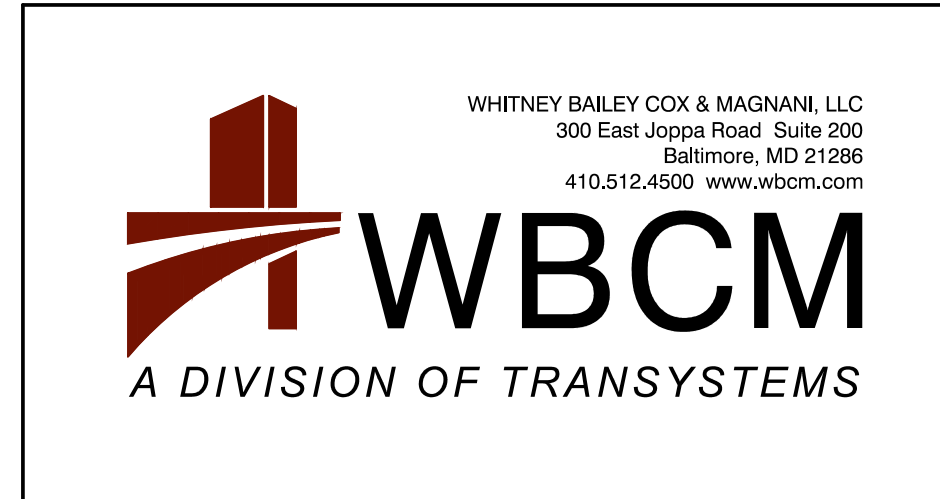
SCALE:	1" = 30'
DRAWN BY:	R.S.S.
CHECKED BY:	R.W.H.
SHEET NO.:	03 OF 63
PROJECT NO.:	P584501
CONTRACT NO.:	P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
DEMOLITION PLAN

C101



P:\2017\17141806\Drawings\07-Site\17141806-C102-Boring Log.dwg Nov 07, 2023 - 2:43pm Plot By: rmmih



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REVISIONS			
NO.	DESCRIPTION	BY	DATE

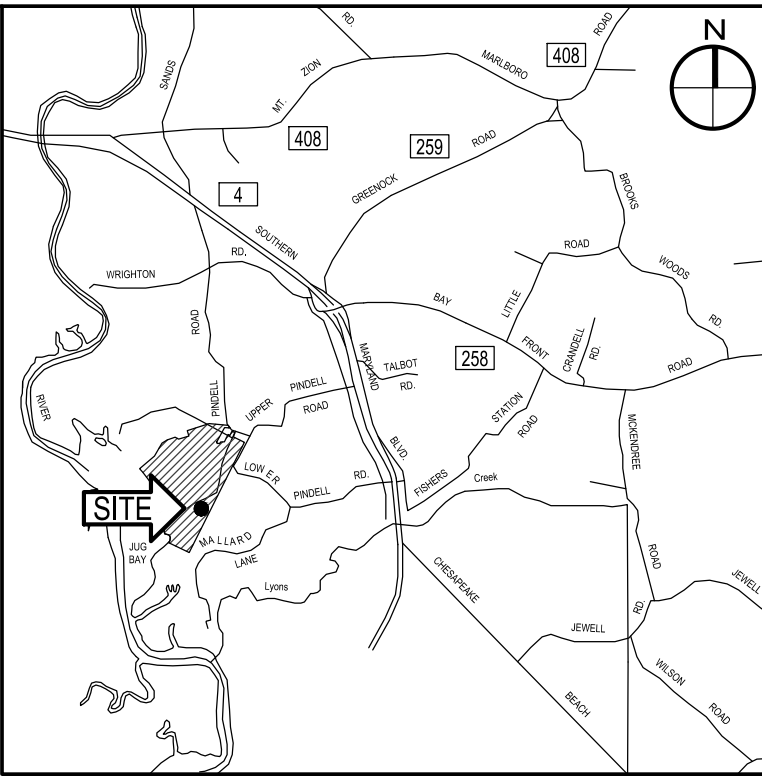
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CHIEF ENGINEER _____		PROJECT MANAGER _____	
APPROVED _____ DATE _____		APPROVED _____ DATE _____	
ASSISTANT CHIEF ENGINEER _____		CHIEF, RIGHT-OF-WAY _____	

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

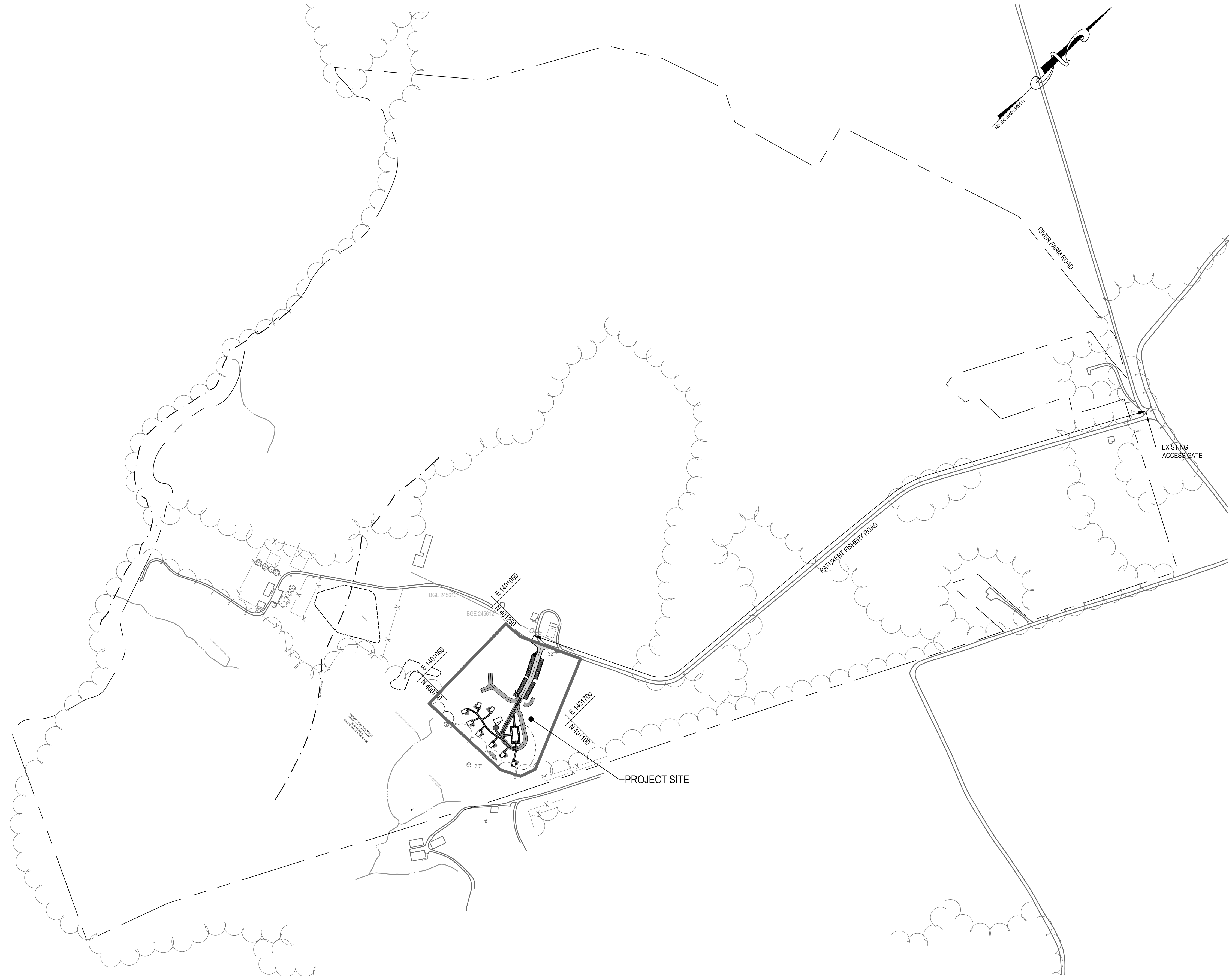
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CHECKED BY: R.W.H.
SHEET NO. 04 OF 63
PROJECT NO.: P584501
CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
BORING LOGS
C102

BID SET



VICINITY MAP
SCALE: 1" = 8,333'



CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

1"=250'-0"

BID SET

WBCM
A DIVISION OF TRANSYSTEMS

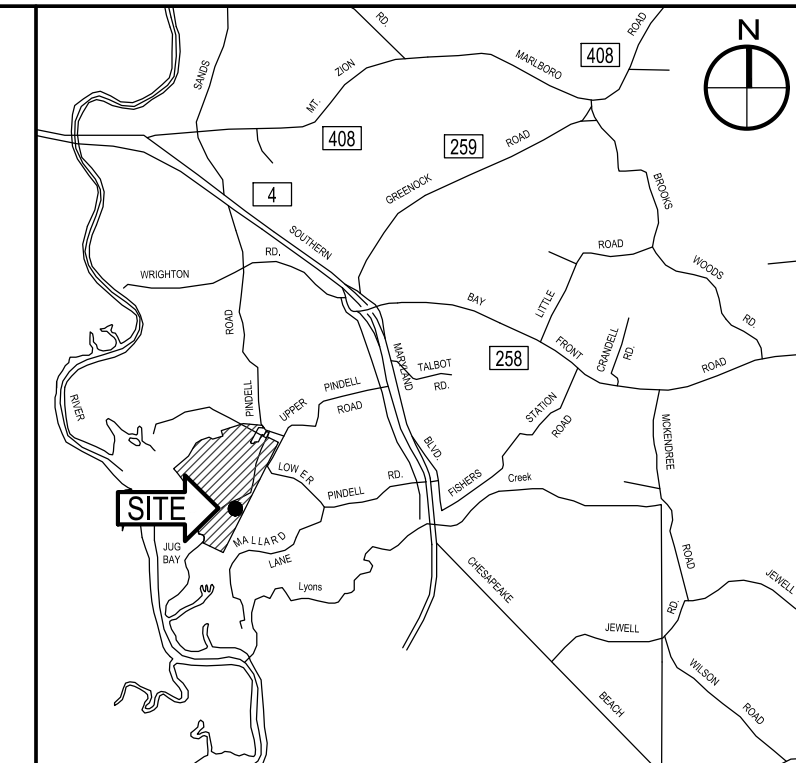
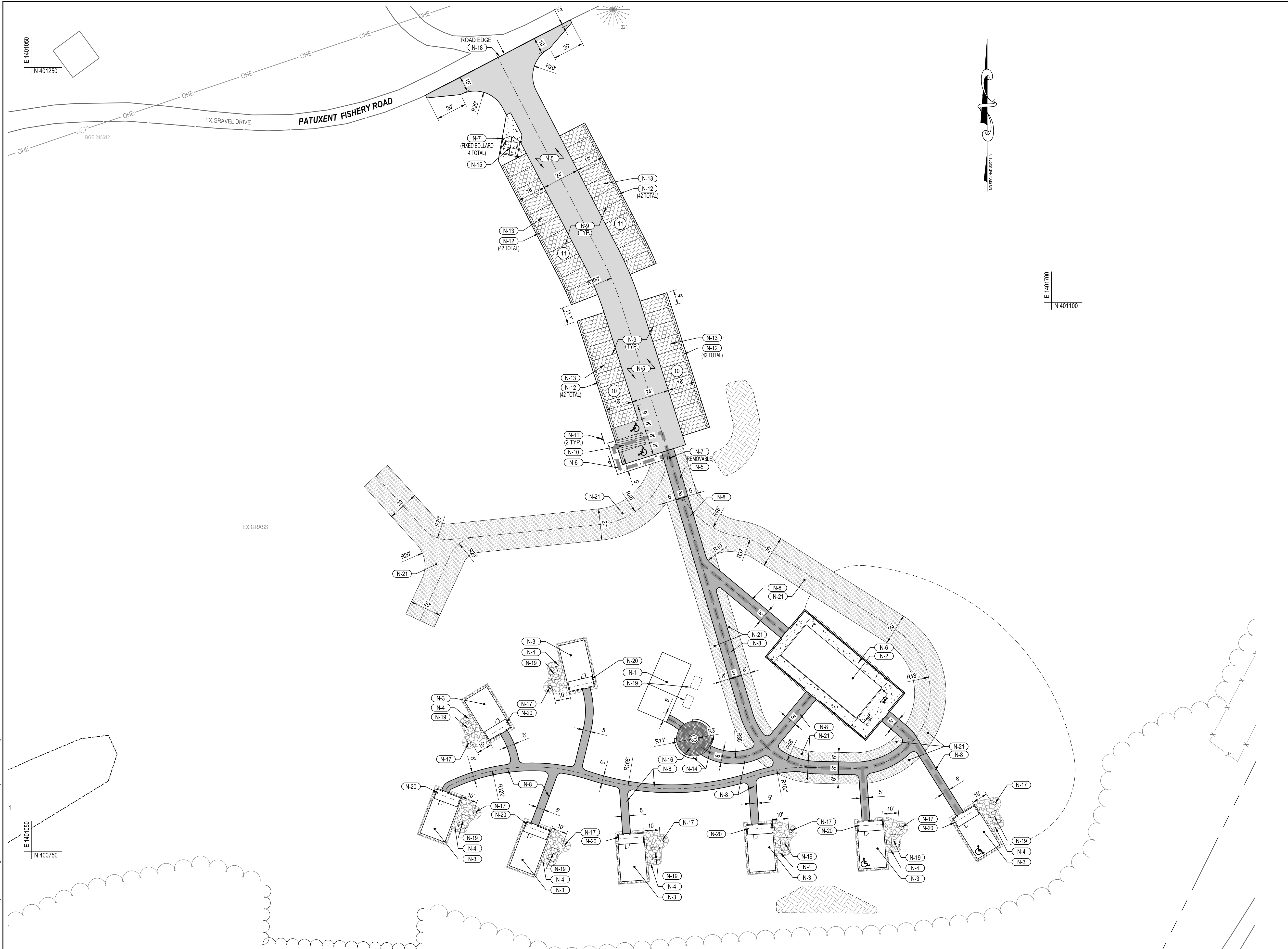
WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 300
Baltimore, MD 21286
410.512.4500 www.wbcm.com

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License # 27734, Expiration Date: 07/12/24

REVISIONS			
NO.	DESCRIPTION	BY	DATE

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	
SCALE:	1" = 250'	DRAWN BY:	R.S.S.
CHECKED BY:	R.W.H.	SHEET NO.	06 OF 63
PROJECT NO.:	P584501	CONTRACT NO.:	P584500
JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION			OVERALL SITE LAYOUT PLAN
C200			

P:\2017\17141806\Drawings\07-Site\17141806-C201-Site_Layout_Plan.dwg Nov 07, 2023 - 2:44pm Plot By: rsmith



VICINITY MAP
SCALE: 1" = 8,333'

ADA COMPLIANCE NOTE
 IN ORDER TO MEET THE ADOPTED 2010 ADA MINIMUM REQUIREMENTS AND IN ACCORDANCE WITH THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) PUBLISHED BY THE U.S. 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 PF1 - PF29

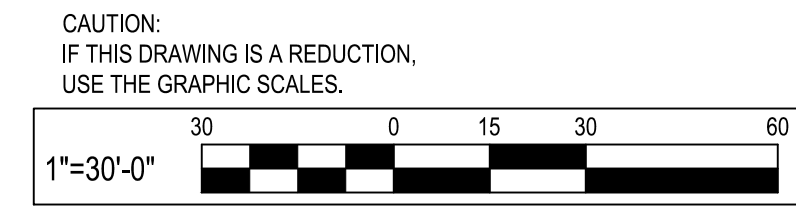
PARKING TABULATION

PROPOSED STANDARD PARKING SPACES:	40 SPACES
PROPOSED HANDICAPPED (VAN ACCESSIBLE):	2 SPACES
TOTAL:	42 SPACES

- CONSTRUCTION NOTES**
- N-1 NEW 20'x40' PRE-FABRICATED PAVILION. SEE SPECIFICATIONS FOR DETAILS.
 - N-2 NEW ALPINE BATHHOUSE. SEE ARCHITECTURAL PLANS FOR DETAILS.
 - N-3 NEW MULTI-UNIT CABIN. SEE ARCHITECTURAL PLANS FOR DETAILS.
 - N-4 NEW GRAVEL PAVING. SEE DETAIL #1 ON SHEET C202.
 - N-5 NEW FULL DEPTH BITUMINOUS CONCRETE PAVING. SEE DETAIL #2 ON SHEET C202.
 - N-6 NEW CONCRETE SLAB AT BATH HOUSE. SEE STRUCTURAL DRAWING S201 FOR DETAILS
 - N-7 NEW PIPE BOLLARD. SEE DETAIL #4 ON SHEET C202.
 - N-8 NEW BITUMINOUS CONCRETE PAVED PEDESTRIAN TRAIL. SEE DETAIL #5 ON SHEET C202.
 - N-9 NEW STANDARD PARKING SPACE. SEE DETAIL #6 ON SHEET C202.
 - N-10 NEW ADA ACCESSIBLE PARKING STRIPING. SEE DETAIL #7 ON SHEET C202.
 - N-11 NEW ADA ACCESSIBLE PARKING SIGN. SEE DETAIL #8 ON SHEET C202.
 - N-12 NEW TIMBER WHEEL STOP. SEE DETAIL #9 ON SHEET C202.
 - N-13 NEW PERVIOUS VEHICULAR PAVERS. SEE DETAIL #15 ON SHEET C203.
 - N-14 NEW FIRE PIT AREA WITH SEAT WALLS. SEE ENLARGEMENT PLAN AND DETAIL #12 ON SHEET C202.
 - N-15 NEW NEW DUMPSTER PAD WITH ENCLOSURE AND GATES. SEE DETAIL #11 ON SHEET C203.
 - N-16 NEW BRICK PAVERS ON SAND BASE. SEE DETAIL #13 ON SHEET C203.
 - N-17 NEW 32" OD PLATE STEEL CAMPFIRE COOK RING.
 - N-18 MEET THE EX GRAVEL ROAD DETAIL. SEE DETAIL #10 ON SHEET C202.
 - N-19 NEW PICNIC TABLE.
 - N-20 NEW CONCRETE PORCH SLAB AT CABIN.
 - N-21 NEW REINFORCED TURF / GEOGRID (GRAVEL). SEE DETAIL #14 ON SHEET C203.

CONSTRUCTION LEGEND:

NEW BITUMINOUS PAVING	
NEW BITUMINOUS PATHWAY	
NEW PERVIOUS PAVERS	
NEW PERMEABLE GRASS PAVER	
NEW CONCRETE SIDEWALK	
NEW SWM FACILITY	
NEW GRAVEL	
ADA PATH	
PICNIC TABLE	



BID SET

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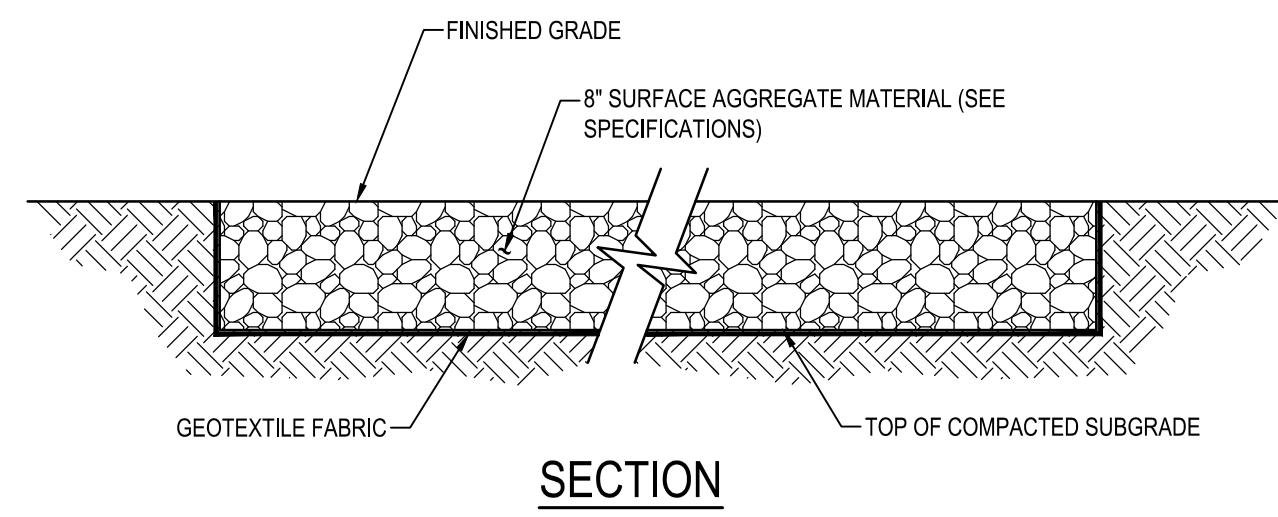
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

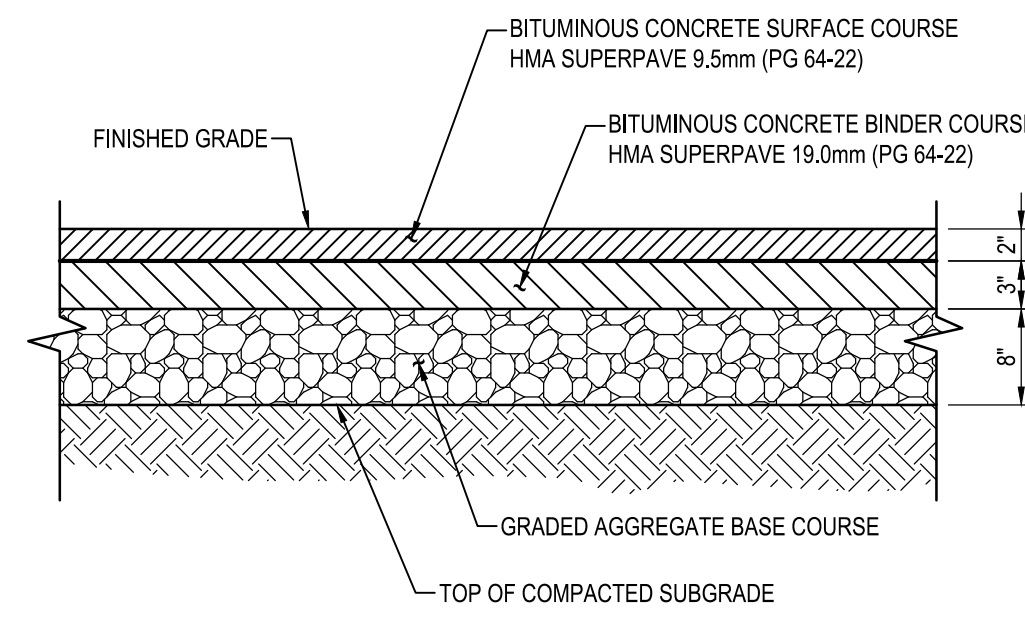
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APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHEIF, RIGHT-OF-WAY	SHEET NO. 06 OF 63
		PROJECT NO.: P584501
		CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
SITE LAYOUT PLAN
C201

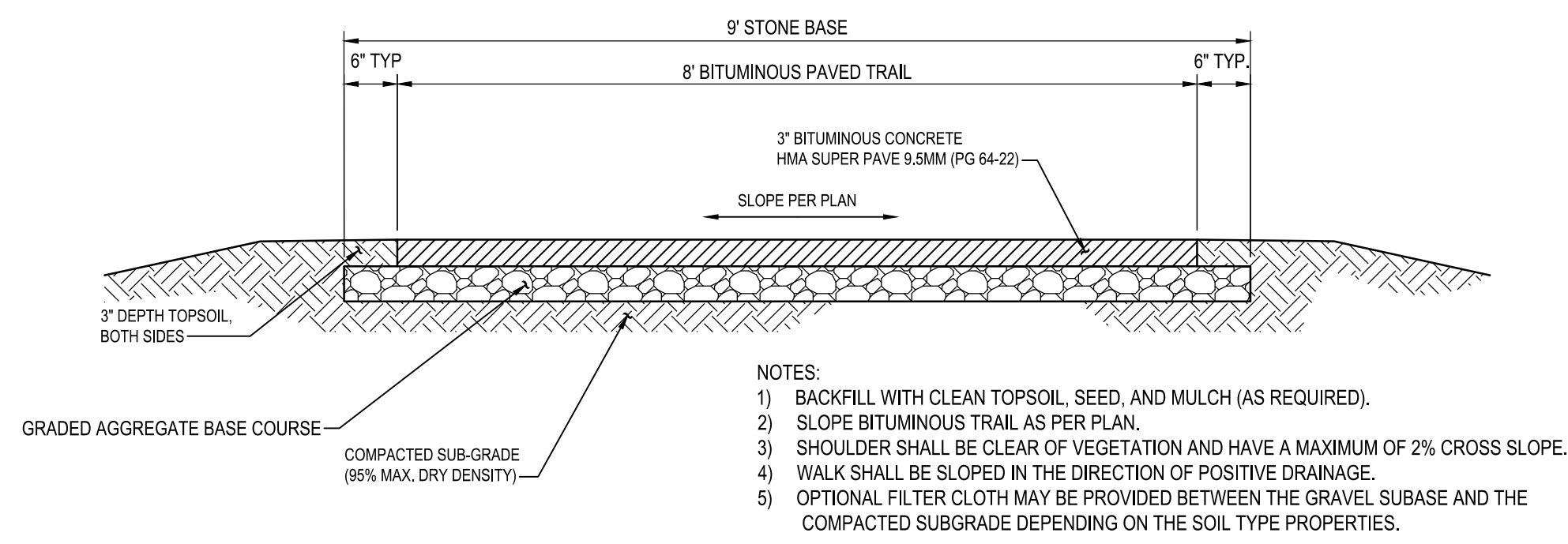
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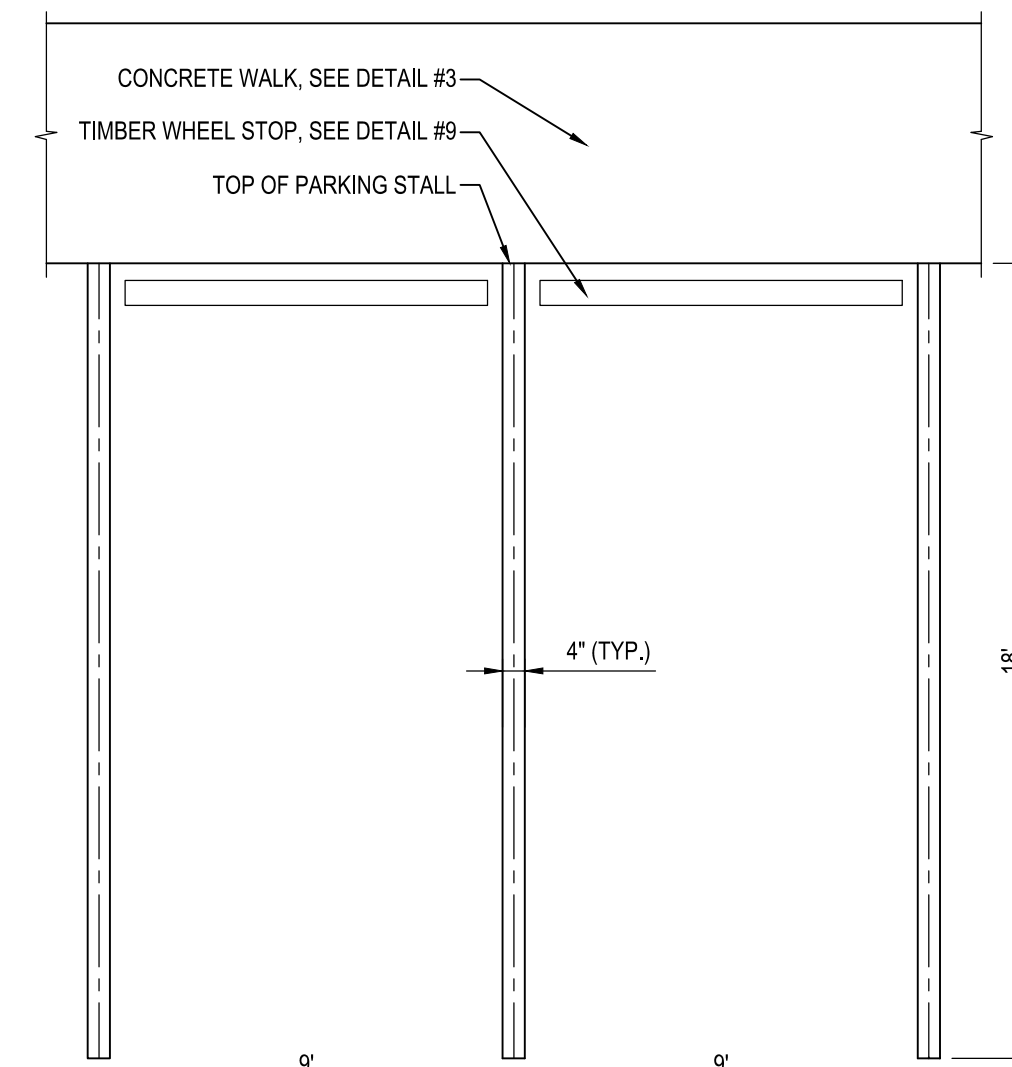
1 GRAVEL PAVING
C202 SCALE: 1" = 1'-0"



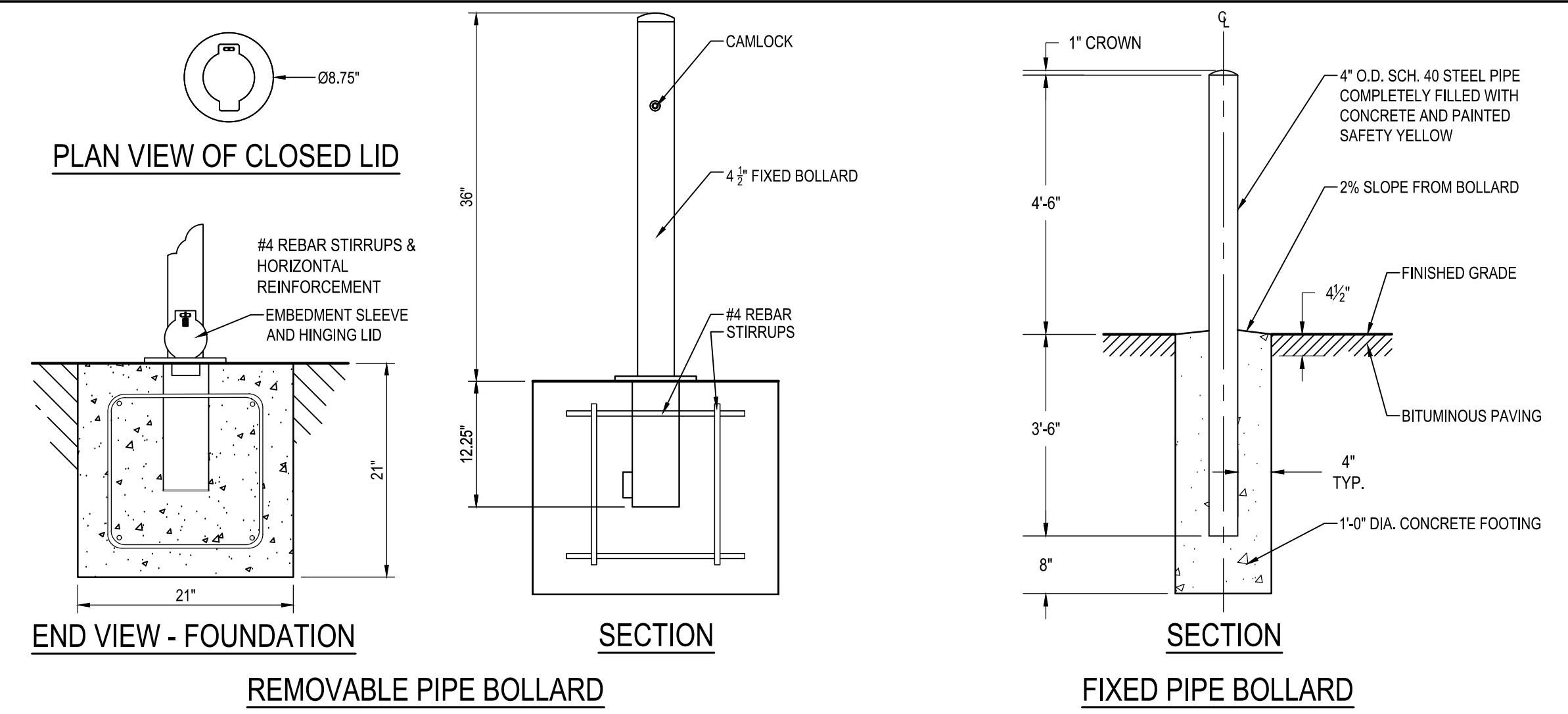
2 BITUMINOUS CONCRETE PAVING
C202 SCALE: 1" = 1'-0"



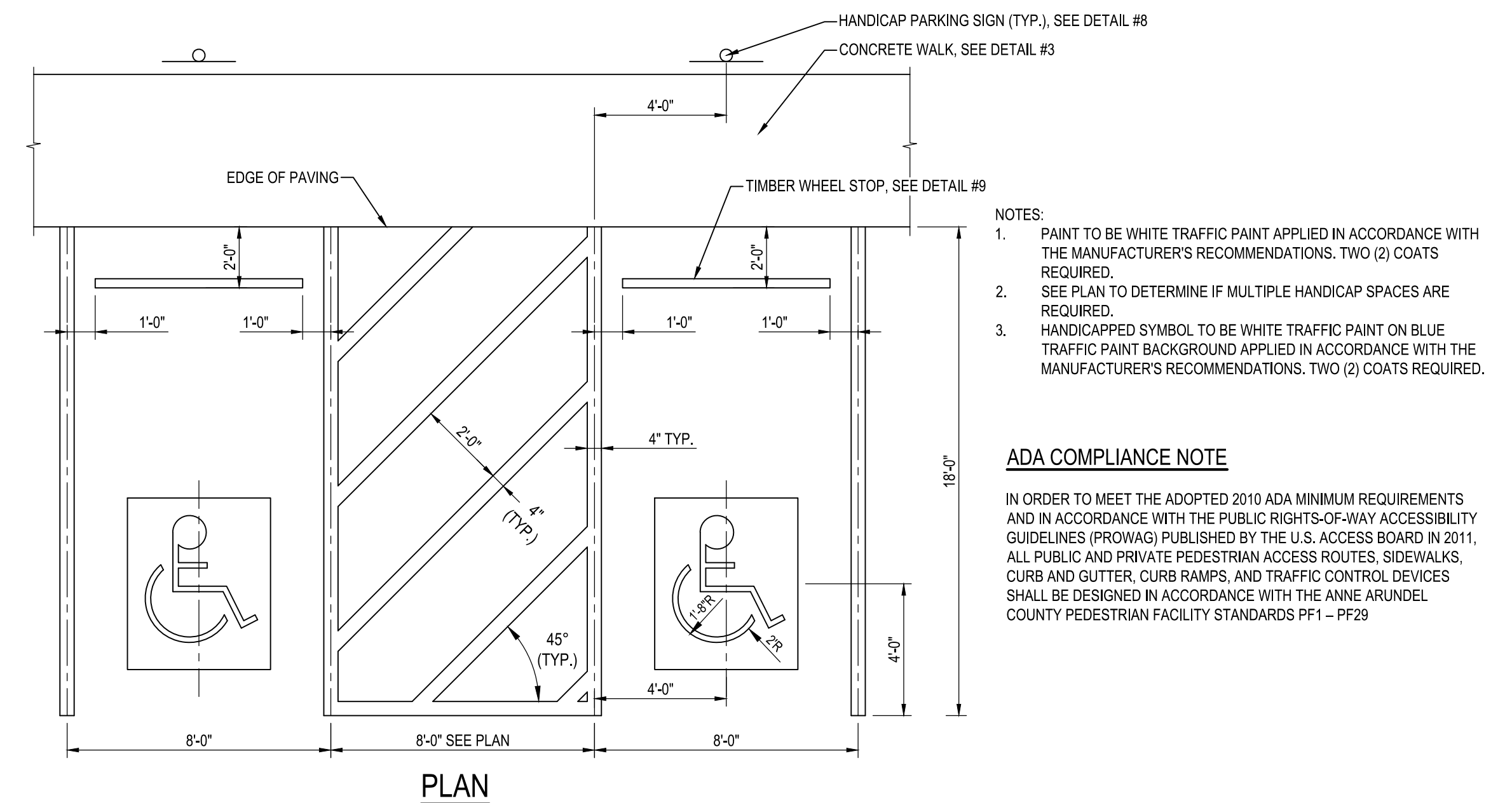
5 BITUMINOUS CONCRETE PEDESTRAIN TRAIL
C202 NOT TO SCALE



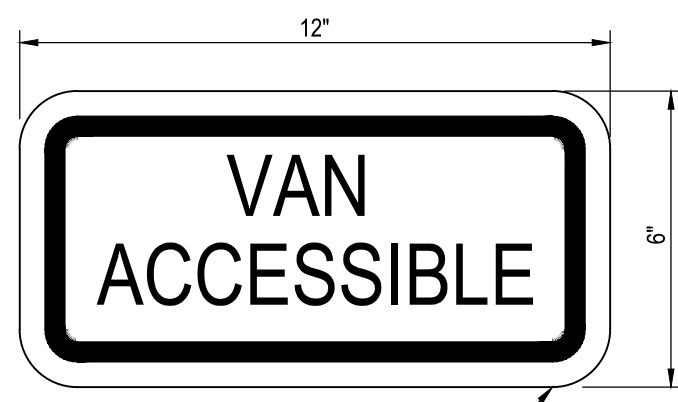
6 STANDARD PARKING SPACE
C202 NOT TO SCALE



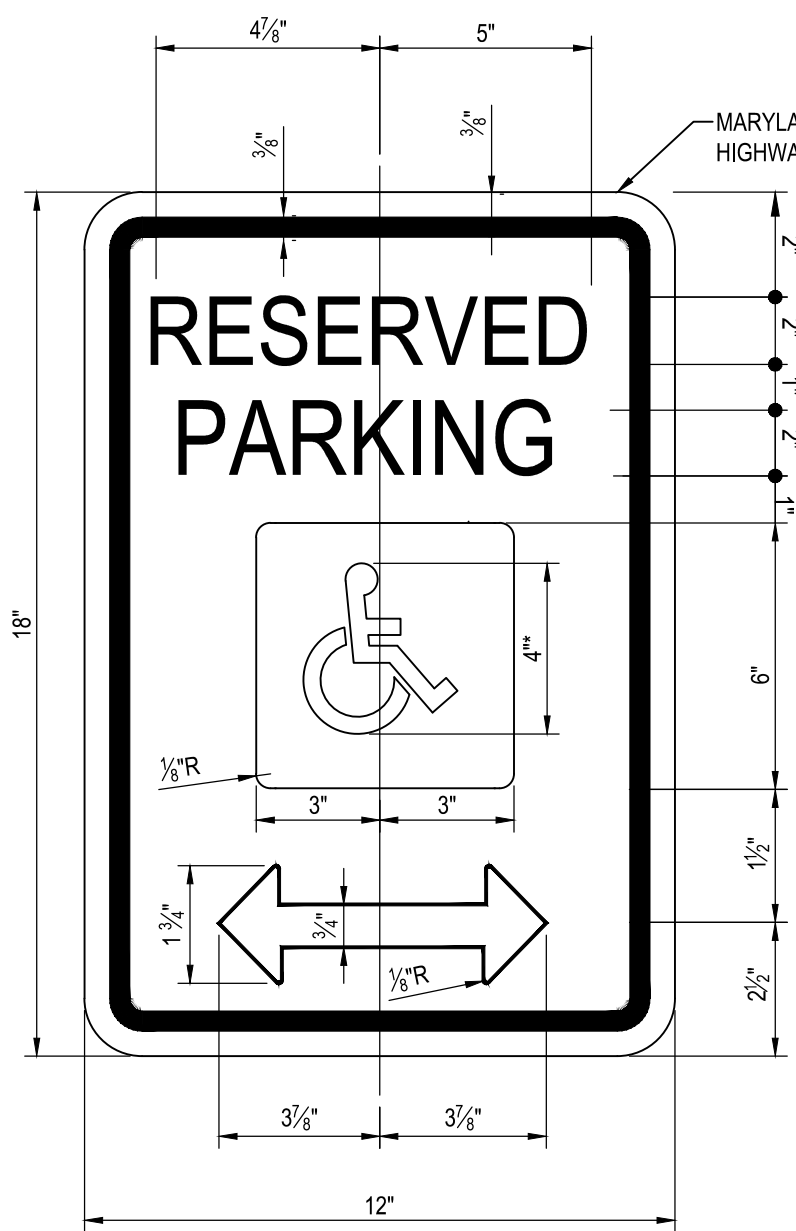
4 PIPE BOLLARD
C202 NOT TO SCALE



7 ADA ACCESSIBLE PARKING STRIPING
C202 NOT TO SCALE

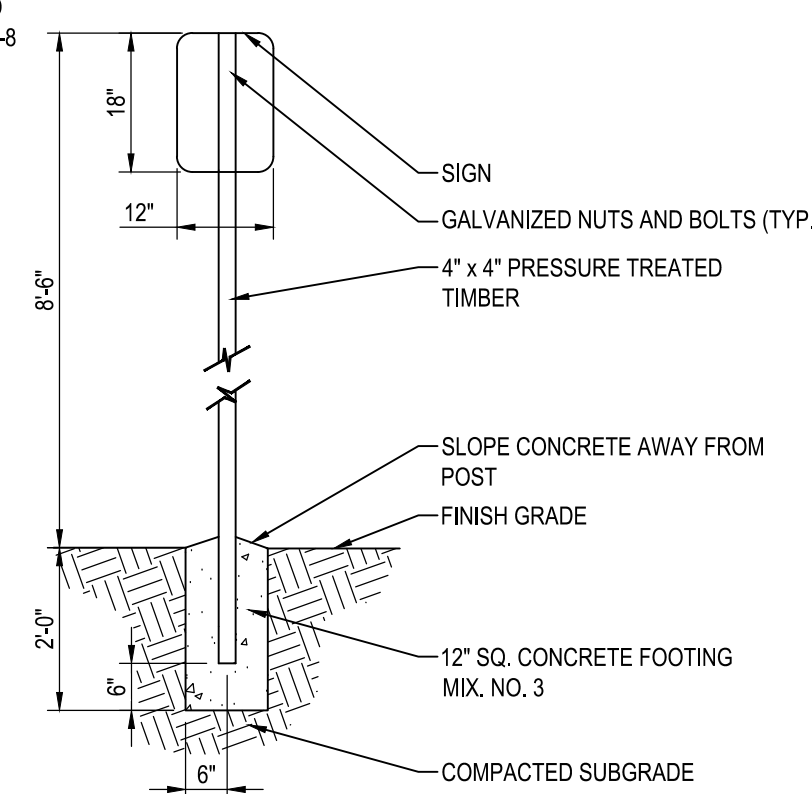


MARYLAND STANDARD HIGHWAY SIGN NO. R7-8P
SPECIFICATION: SHA STANDARD SPECIFICATION SECTION 813-SIGNS.
* SEE PROPORTIONS FOR SYMBOL DESIGN (ALL DIMENSIONS FOR SIGN IN INCHES)
COLORS: LEGEND & BORDER-GREEN, WHITE SYMBOL ON BLUE BACKGROUND, BACKGROUND-WHITE.

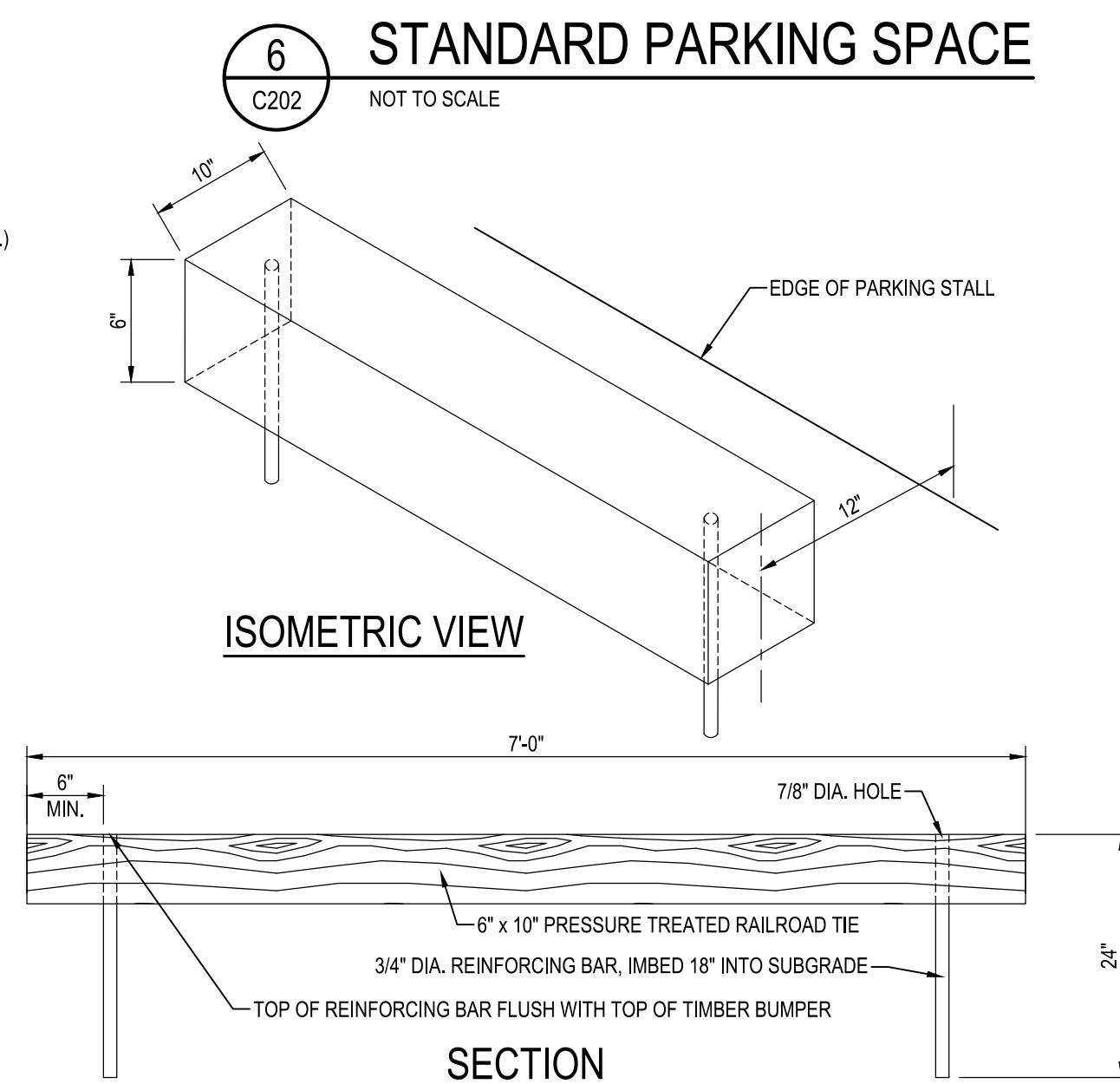


ENLARGEMENT

8 HANDICAP PARKING SIGN
C202 NOT TO SCALE

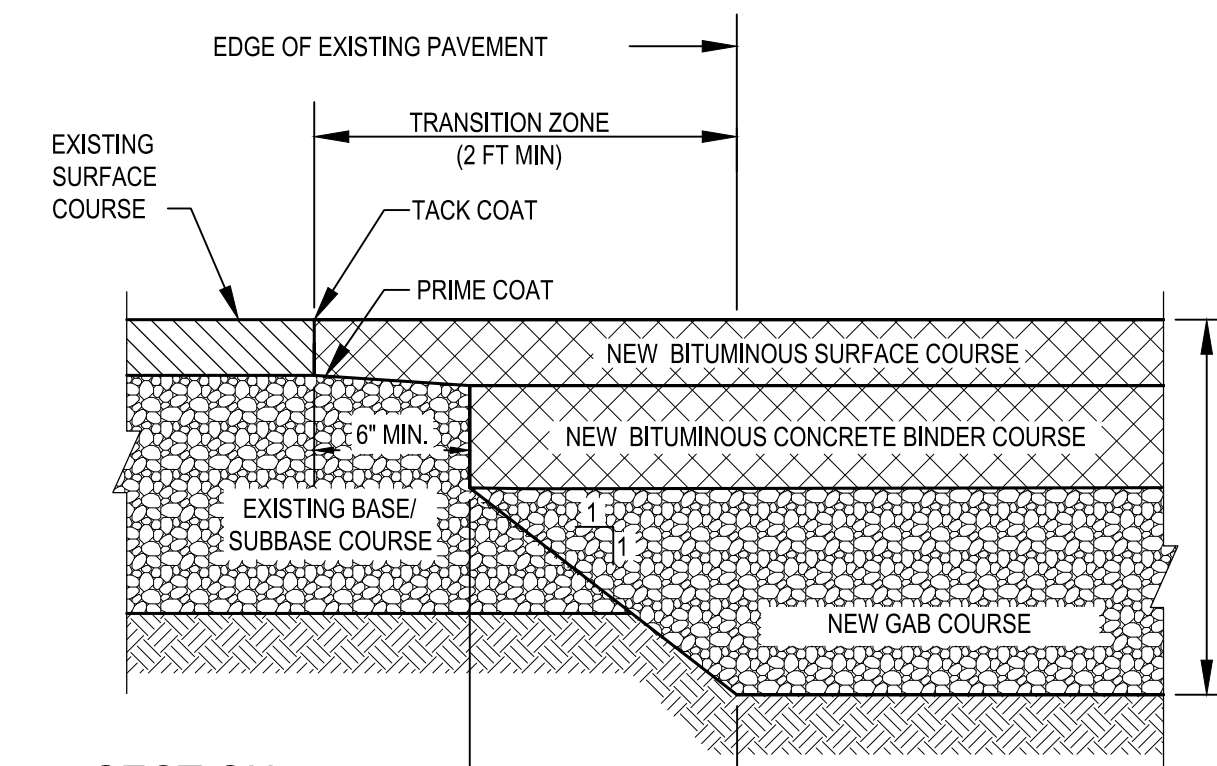


PLAN



SECTION

9 TIMBER WHEEL STOP
C202 NOT TO SCALE

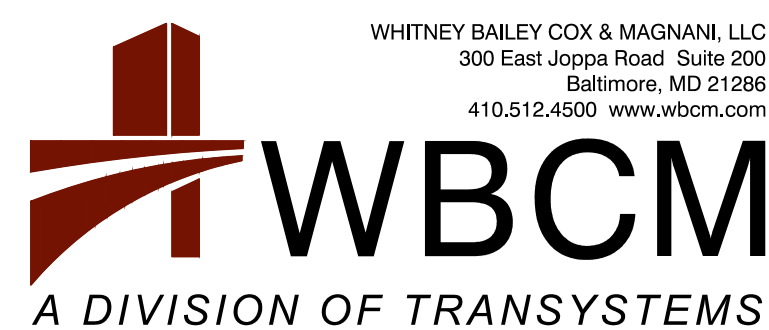


SECTION

NOTE 1- REFER TO BITUMINOUS ROAD PAVEMENT SECTION DETAIL ON THIS SHEET.
NOTE 2- MIX & COMPACT NEW BASE COURSES INTO EXISTING BASE/SUBBASE.

10 TRANSITION BETWEEN EX. PAVING AND NEW BITUMINOUS PAVING
C202 SCALE: 1" = 1'-0"

BID SET



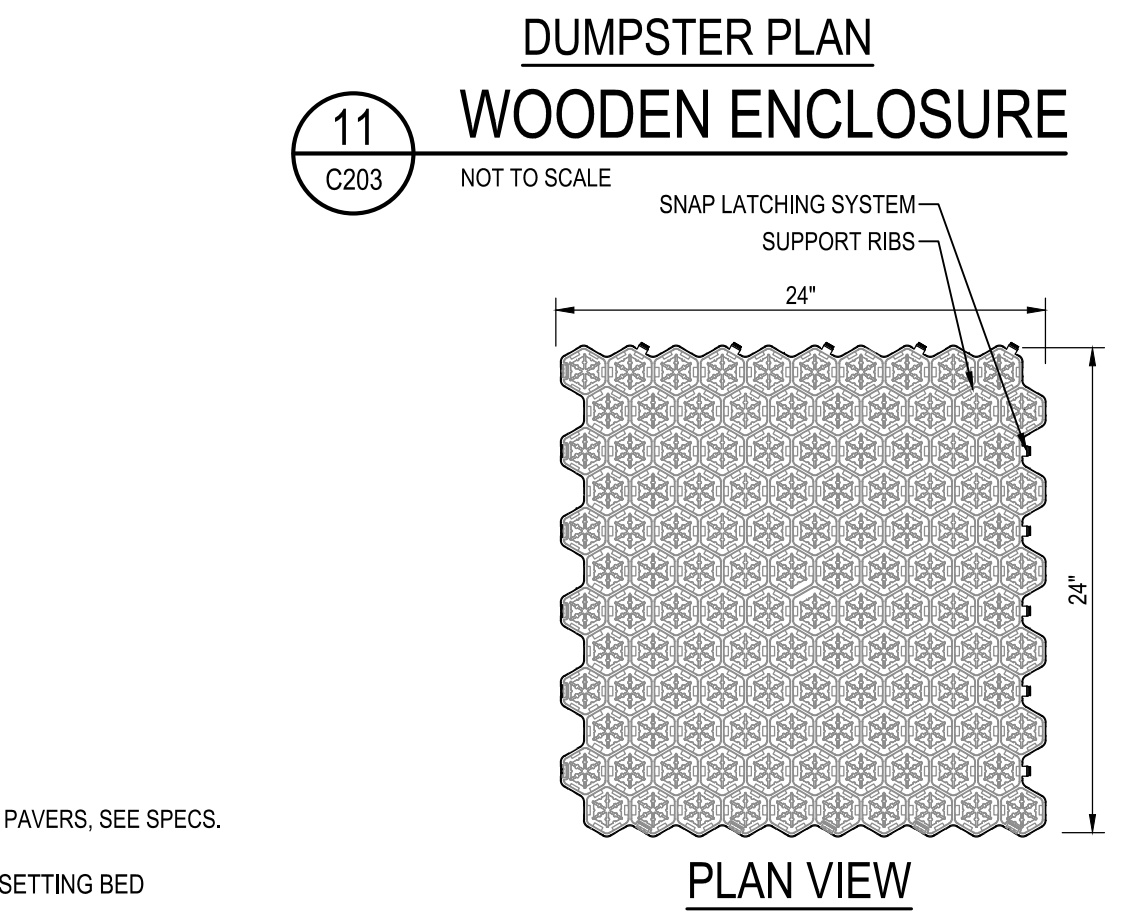
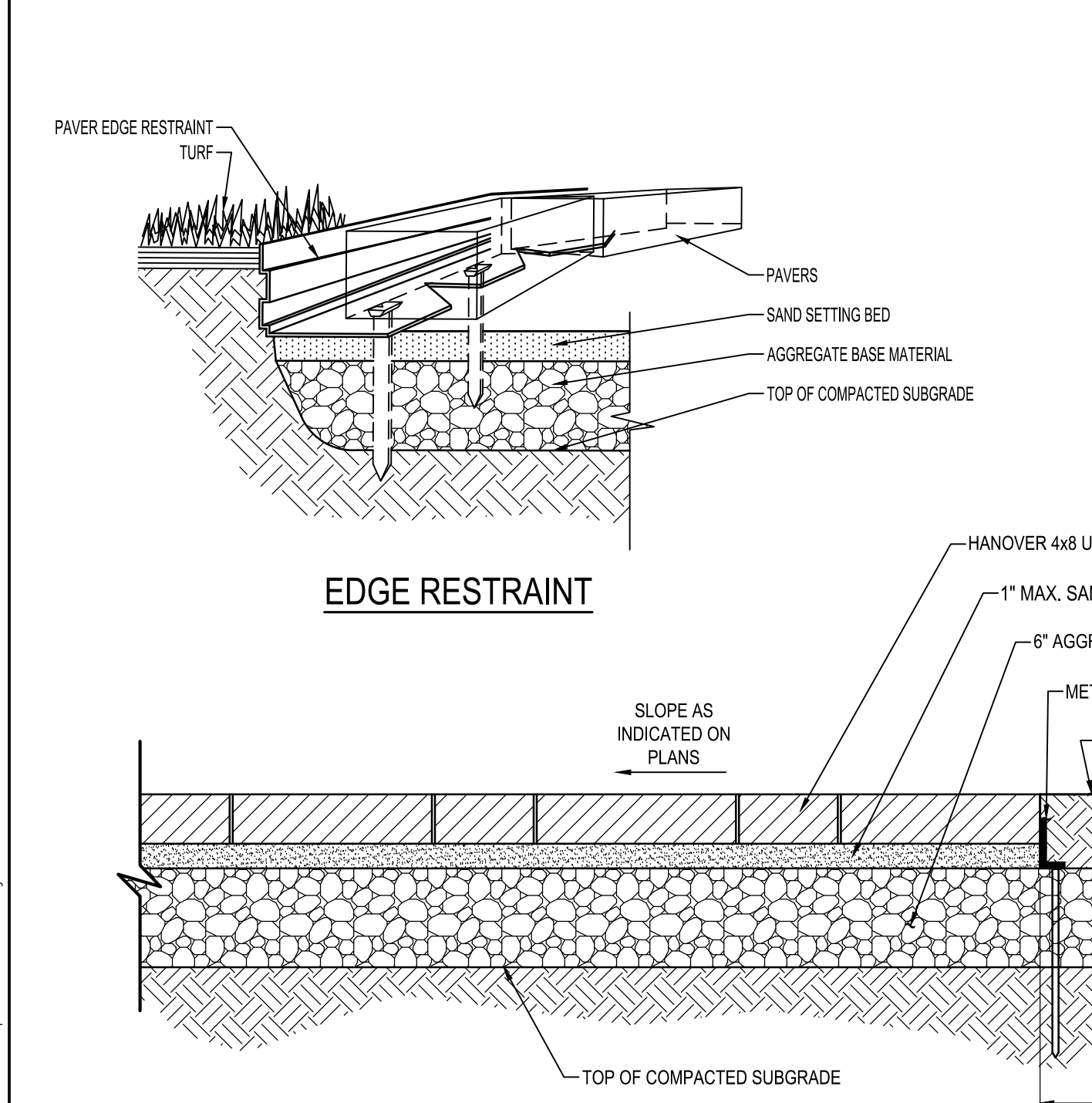
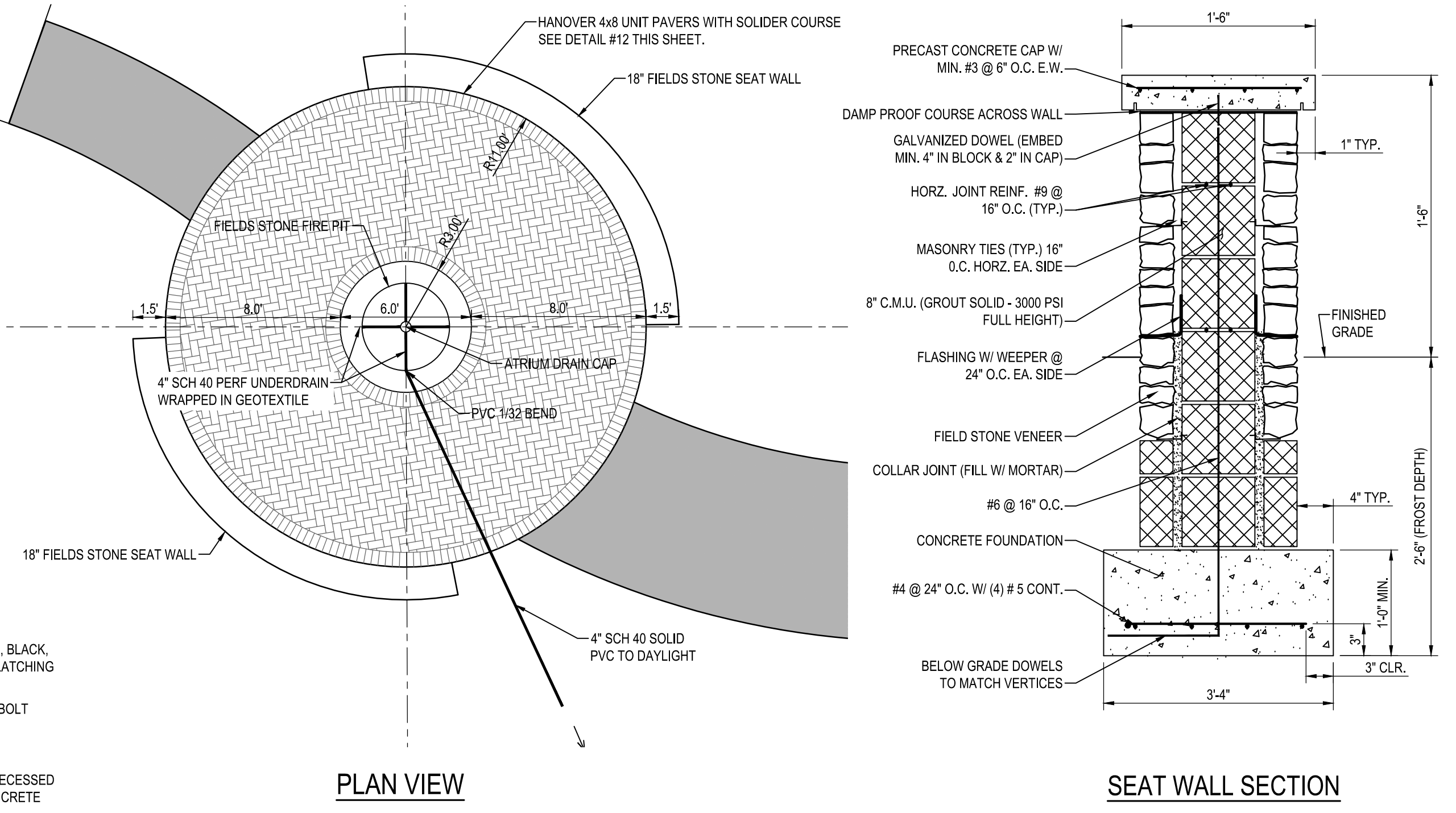
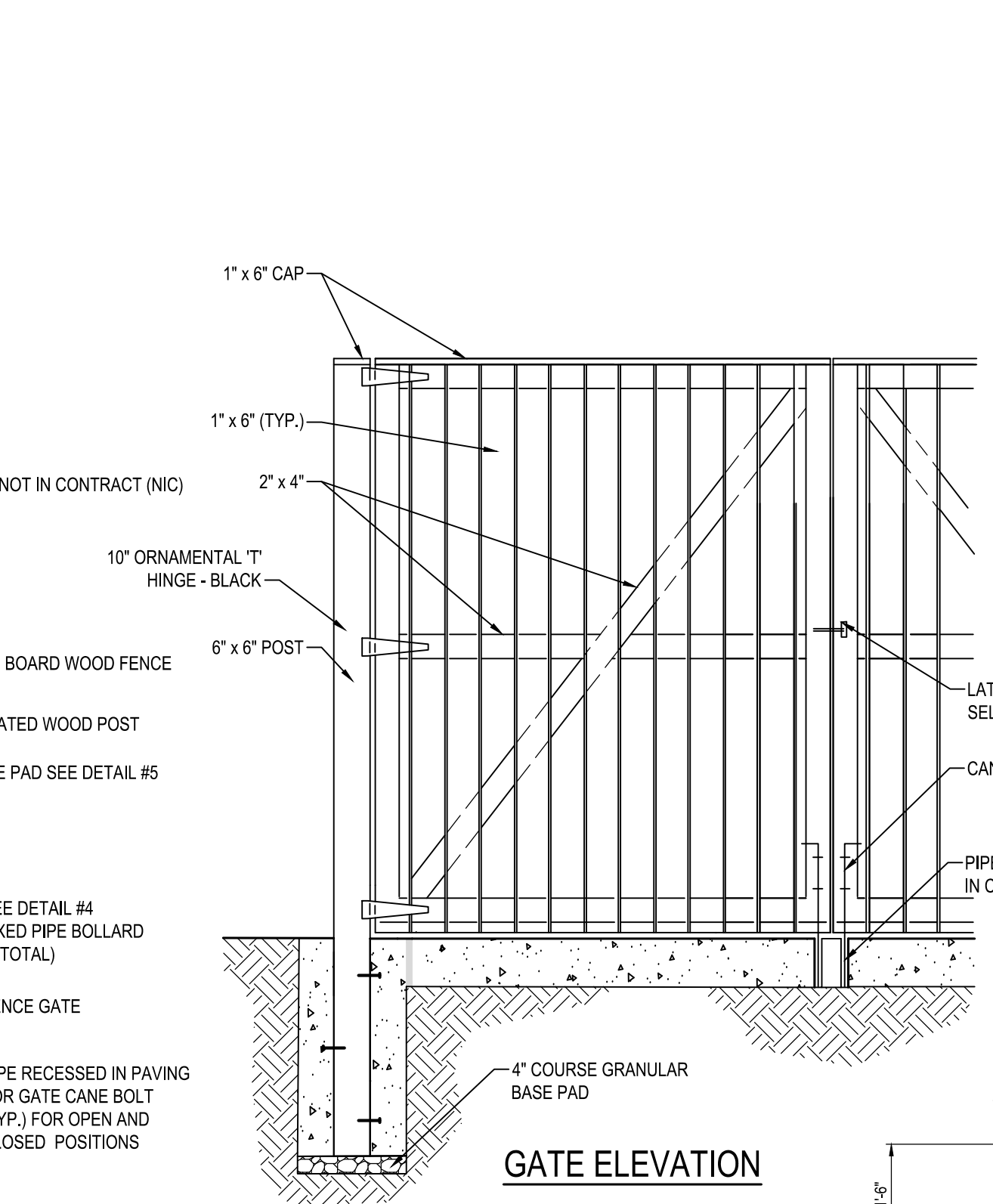
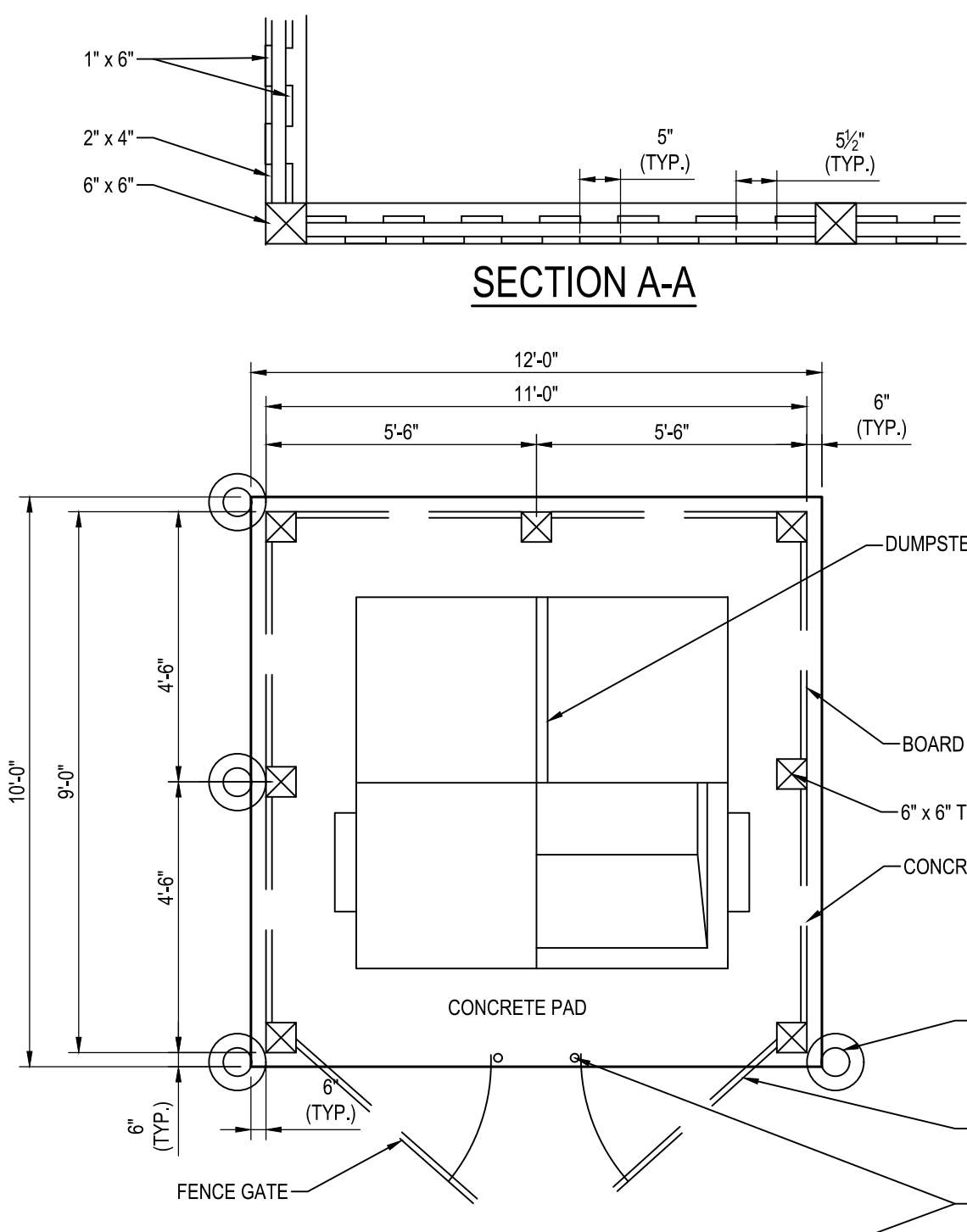
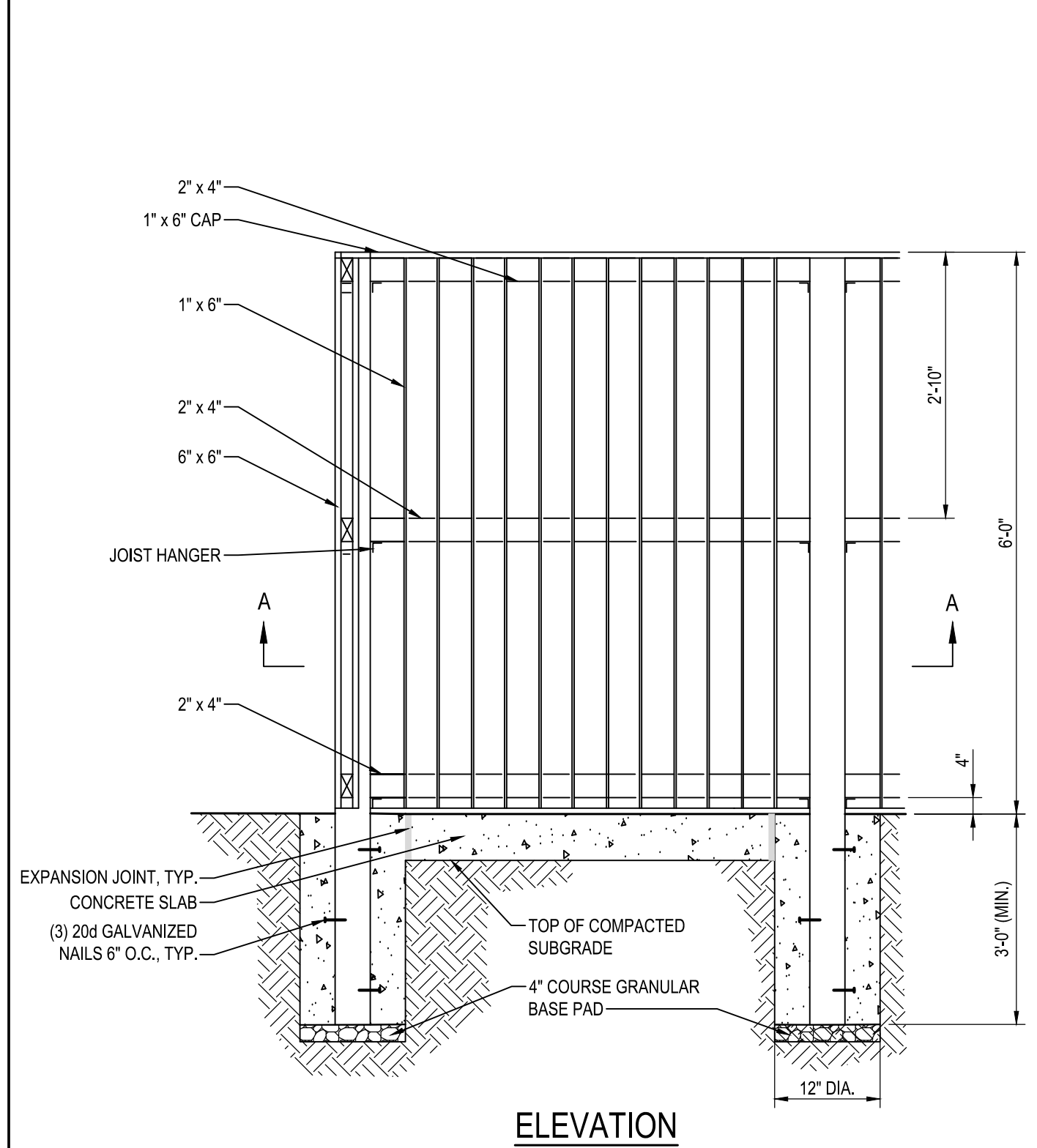
WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 300
Baltimore, MD 21286
410.512.4500 www.wbcm.com

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License # 27734, Expiration Date: 07/12/24

REVISIONS			
NO.	DESCRIPTION	BY	DATE

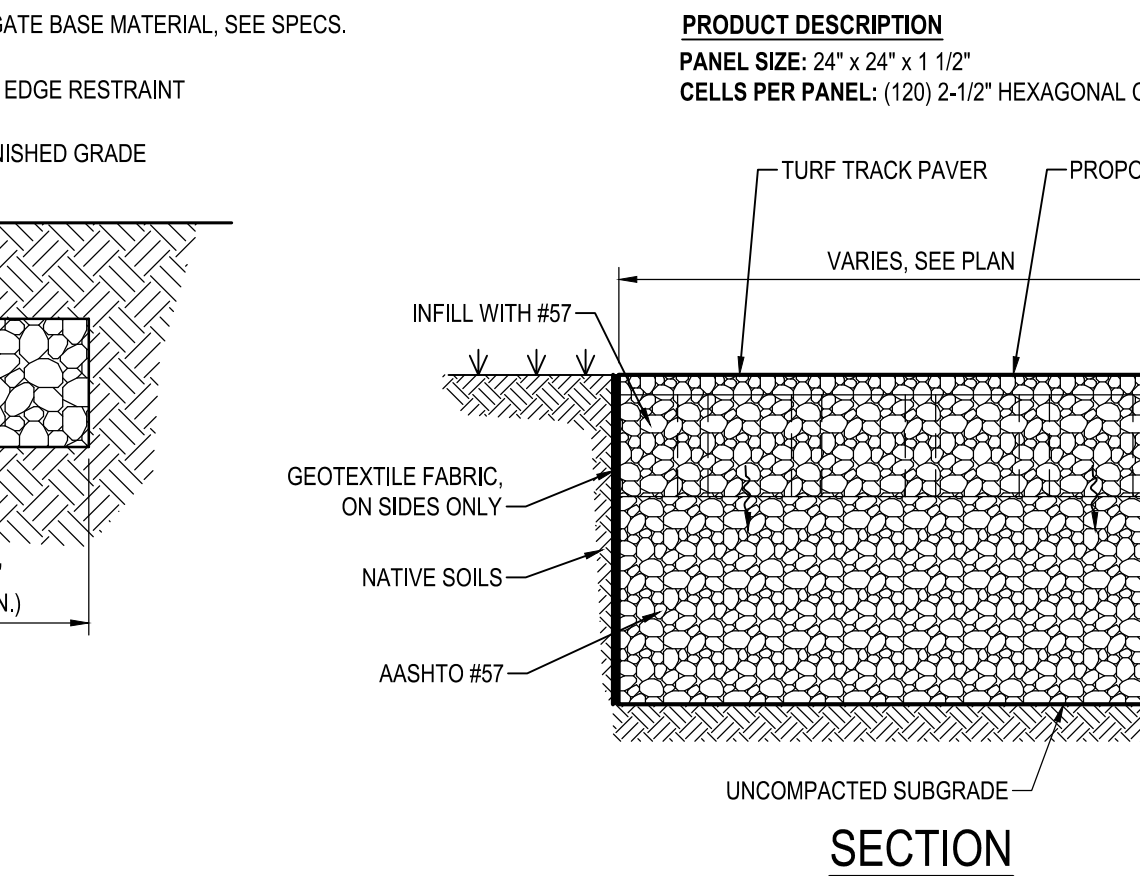
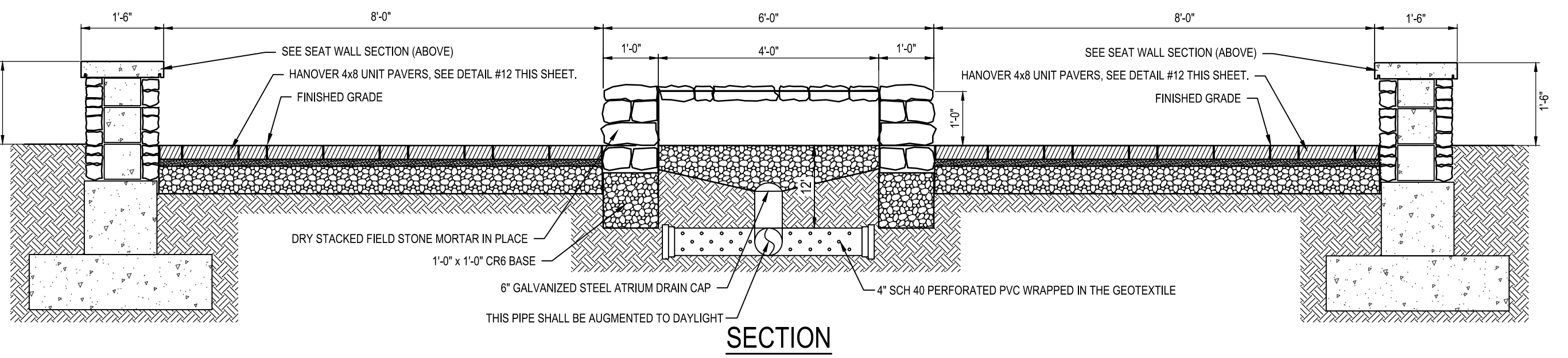
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: AS SHOWN	DRAWN BY: R.S.S.	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION	
CHECKED BY: R.W.H.	SHEET NO. 07 OF 63		SITE DETAILS
PROJECT NO.: P584501	CONTRACT NO.: P584500		
			C202

- NOTES:
1. ALL 6" x 6" POSTS SHALL BE OCA TREATED SOUTHERN YELLOW PINE, AWPAC C1, SMOOTH FINISH.
 2. ALL WOOD OTHER THAN POSTS SHALL BE WESTERN RED CEDAR, NLGA 204B, ALL EXTERIOR FACE BOARDS SHALL HAVE A SMOOTH FINISH.
 3. ALL HARDWARE SHALL BE GALVANIZED COATED.
 4. ALL EXPOSED HARDWARE SHALL HAVE A BLACK FINISH.



MAINTENANCE SCHEDULE:
UPON COMPLETION OF CONSTRUCTION AND ACCEPTANCE OF THE WORK, INSPECTION AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF ANNE ARUNDEL COUNTY COUNTY DEPARTMENT OF PARKS AND RECREATION.

PRACTICE	FREQUENCY OF INSPECTION	PREVENTATIVE MAINTENANCE	MAINTENANCE REQUIREMENTS
REINFORCED TURF	SEASONALLY (AND AFTER A MAJOR STORM)	AVOID LARGE TRUCKS AND HEAVY VEHICLES FROM REGULARLY DRIVING ON SURFACE	REPAIR SLOPE EROSION IMMEDIATELY UPSTREAM
		PREVENT TRUCKS AND HEAVY VEHICLES FROM TRACKING, SPILLING, OR GRINDING MATERIAL ONTO SURFACE	CHECK THAT SURFACE IS NOT BECOMING SETTLED OR COMPACTED
			MOW REGULARLY AND REMOVE CLIPPINGS FROM APPLICATION AREA

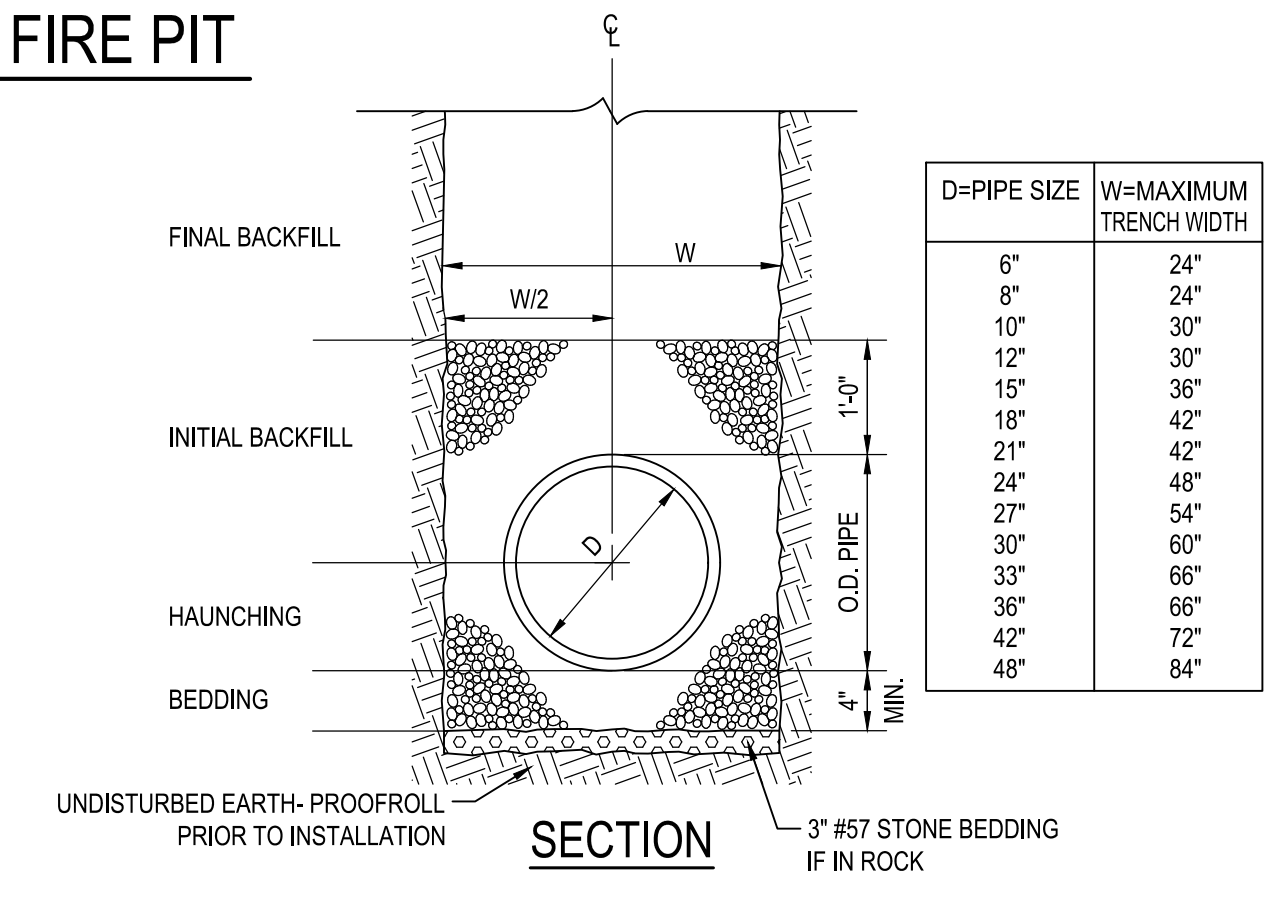
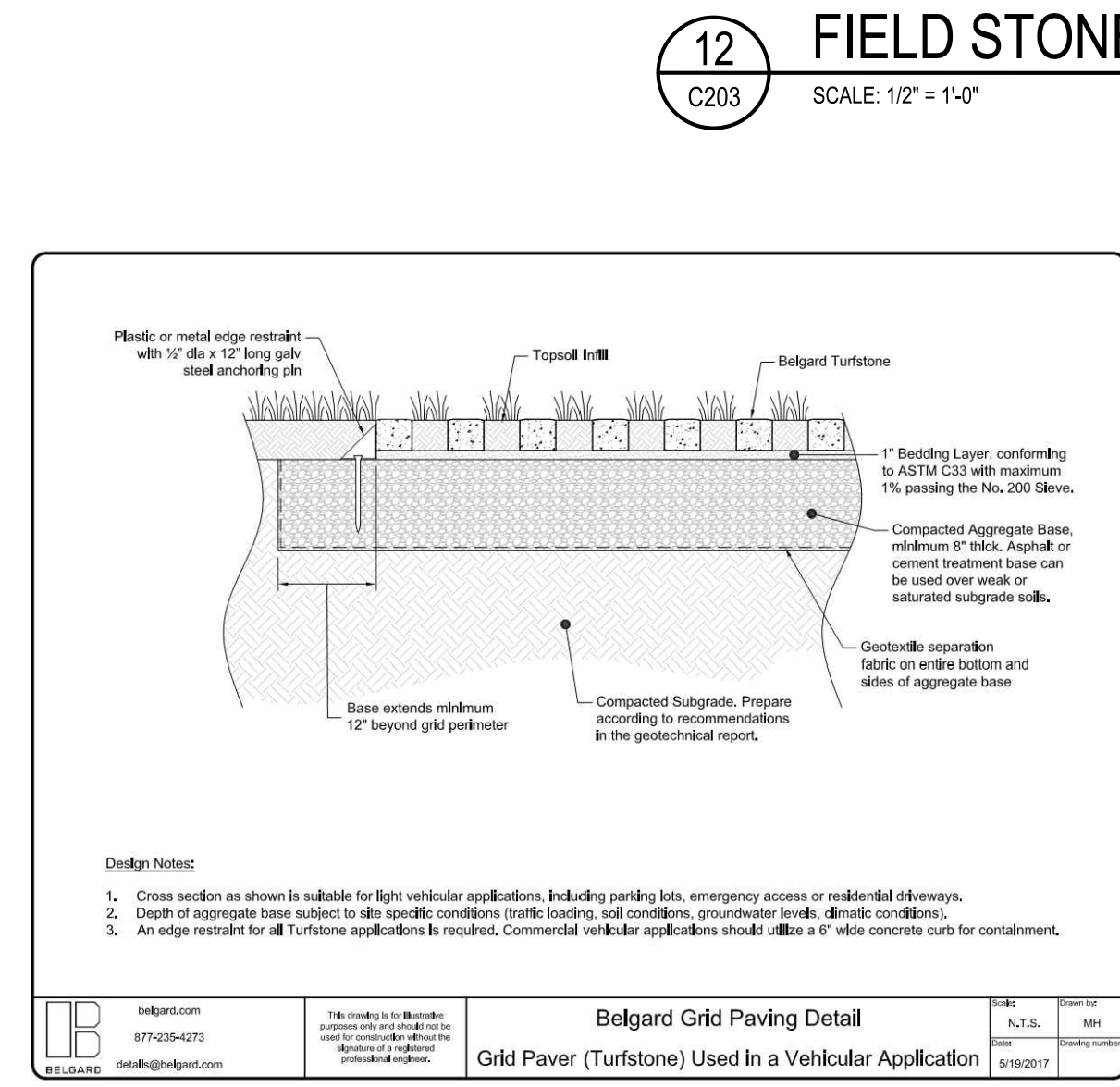
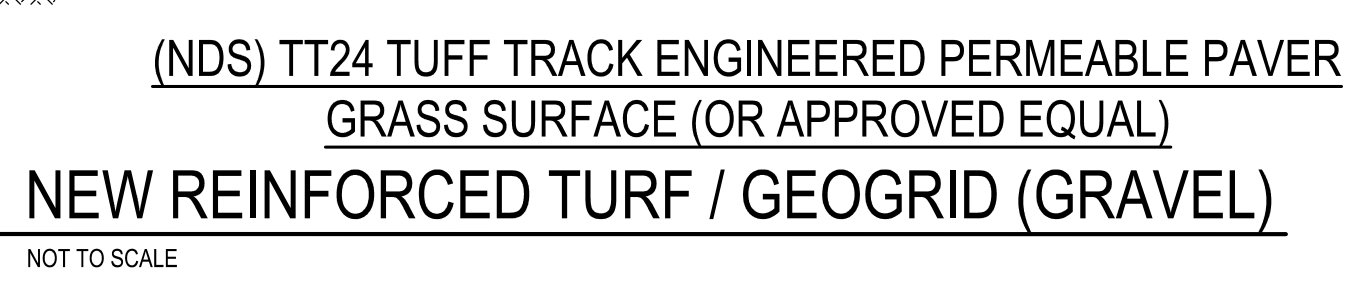
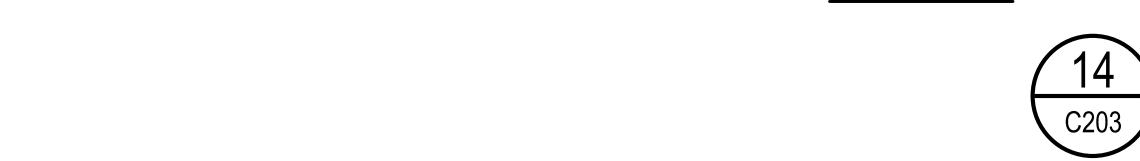


INSPECTION:
REGULAR INSPECTIONS SHALL BE MADE DURING THE FOLLOWING STAGES OF CONSTRUCTION:
CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER 48 HOURS PRIOR TO REQUIRED INSPECTION.

- DURING EXCAVATION TO SUBGRADE.
- DURING PLACEMENT OF GEOTEXTILE.
- DURING PLACEMENT OF SUBBASE MATERIAL.
- DURING PLACEMENT OF SYNTHETIC GRID SYSTEM.
- DURING PLACEMENT OF TOPSOIL / SURFACE MATERIAL.
- UPON COMPLETION OF PERMANENT STABILIZATION.

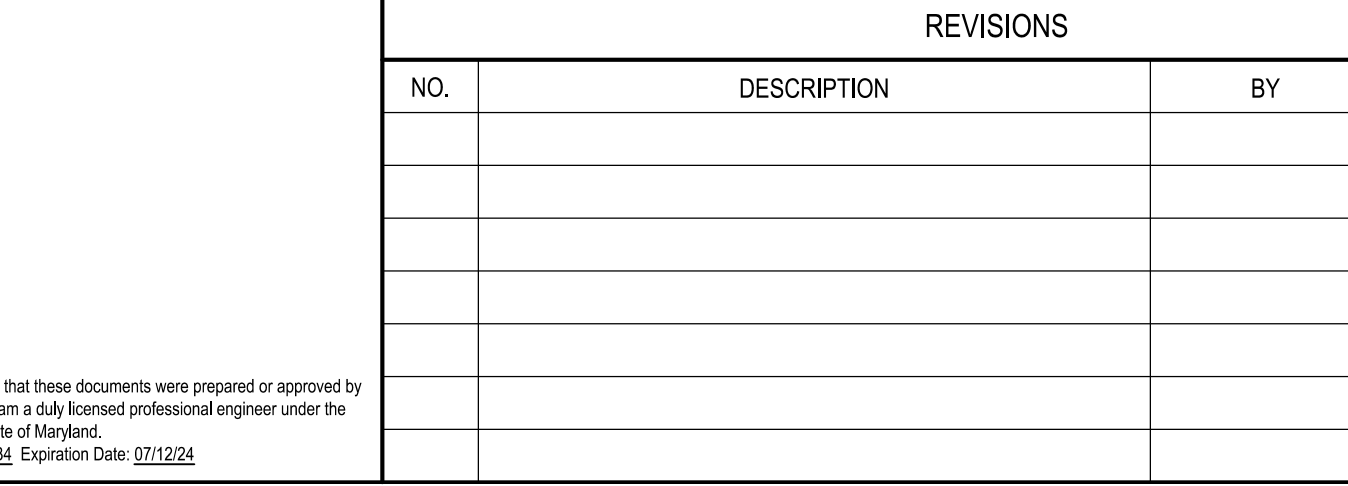
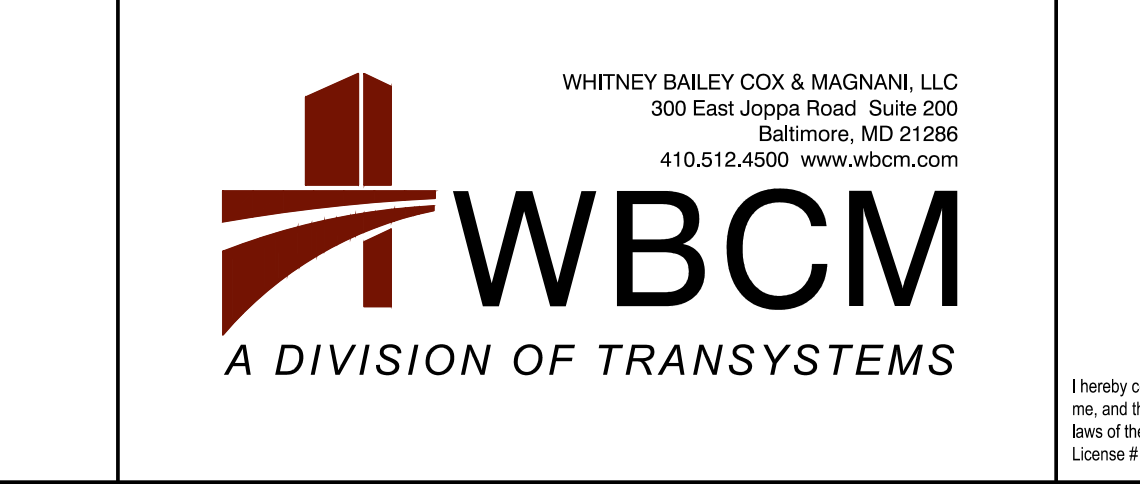
MATERIALS SPECIFICATIONS FOR REINFORCED TURF

MATERIAL	SPECIFICATION	SIZE	NOTES
SYNTHETIC GRID SYSTEM	T124 TUFF TRACK PERMEABLE PAVER	24 x 24 x 1 1/2"	2 1/2" HEXAGONAL CELLS
GEOTEXTILE	NON WOVEN	NA	NOWOVEN GEOTEXTILE TABLE H-1 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
GRAVEL	AASHTO M-43	NO.57	WASHED



MATERIAL NOTES (UNLESS OTHERWISE SPECIFIED):

1. BEDDING: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND, ASTM D 2940/D 2940M, EXCEPT WITH 100 PERCENT PASSING A 1-INCH (25.4MM) SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 (0.075MM) SIEVE. COMPACT TO 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
2. HAUNCHING: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND, ASTM D 2940/D 2940M, EXCEPT WITH 100 PERCENT PASSING A 1-INCH (25.4MM) SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 (0.075MM) SIEVE. CAREFULLY COMPACT INITIAL BACKFILL UNDER PIPE HAUNCHES AND COMPACT EVENLY UP ON BOTH SIDES AND ALONG THE FULL LENGTH OF PIPING OR CONDUIT TO AVOID DAMAGE OR DISPLACEMENT OF PIPING OR CONDUIT. COORDINATE BACKFILLING WITH UTILITIES TESTING.
3. INITIAL BACKFILL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND, ASTM D 2940/D 2940M, WITH AT LEAST 90 PERCENT PASSING A 1/2-INCH (12.5MM) SIEVE AND NOT MORE THAN 12 PERCENT PASSING A NO. 200 (0.075MM) SIEVE. CAREFULLY COMPACT INITIAL BACKFILL UNDER PIPE HAUNCHES AND COMPACT EVENLY UP ON BOTH SIDES AND ALONG THE FULL LENGTH OF PIPING OR CONDUIT TO AVOID DAMAGE OR DISPLACEMENT OF PIPING OR CONDUIT. COORDINATE BACKFILLING WITH UTILITIES TESTING.
4. FINAL BACKFILL: EXCAVATED SOILS MEETING THE PROJECT SPECIFIC REQUIREMENTS FOR SATISFACTORY SOILS PLACED IN 6" LIFTS AND COMPACTED.
5. COMPACT EACH LAYER OF INITIAL AND FINAL BACKFILL SOIL MATERIAL AT 90 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.



16 C203

PIPE BEDDING DETAIL

NOT TO SCALE

BID SET

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

SCALE: AS SHOWN

DRAWN BY: R.S.S.

CHECKED BY: R.W.H.

SHEET NO. 08 OF 63

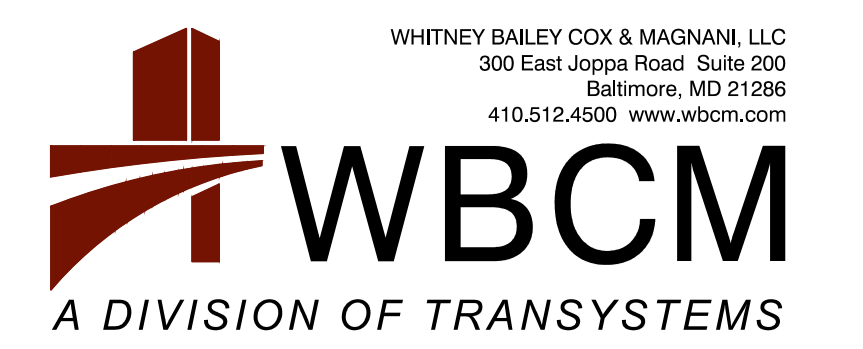
PROJECT NO.: P584501

CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION

SITE DETAILS

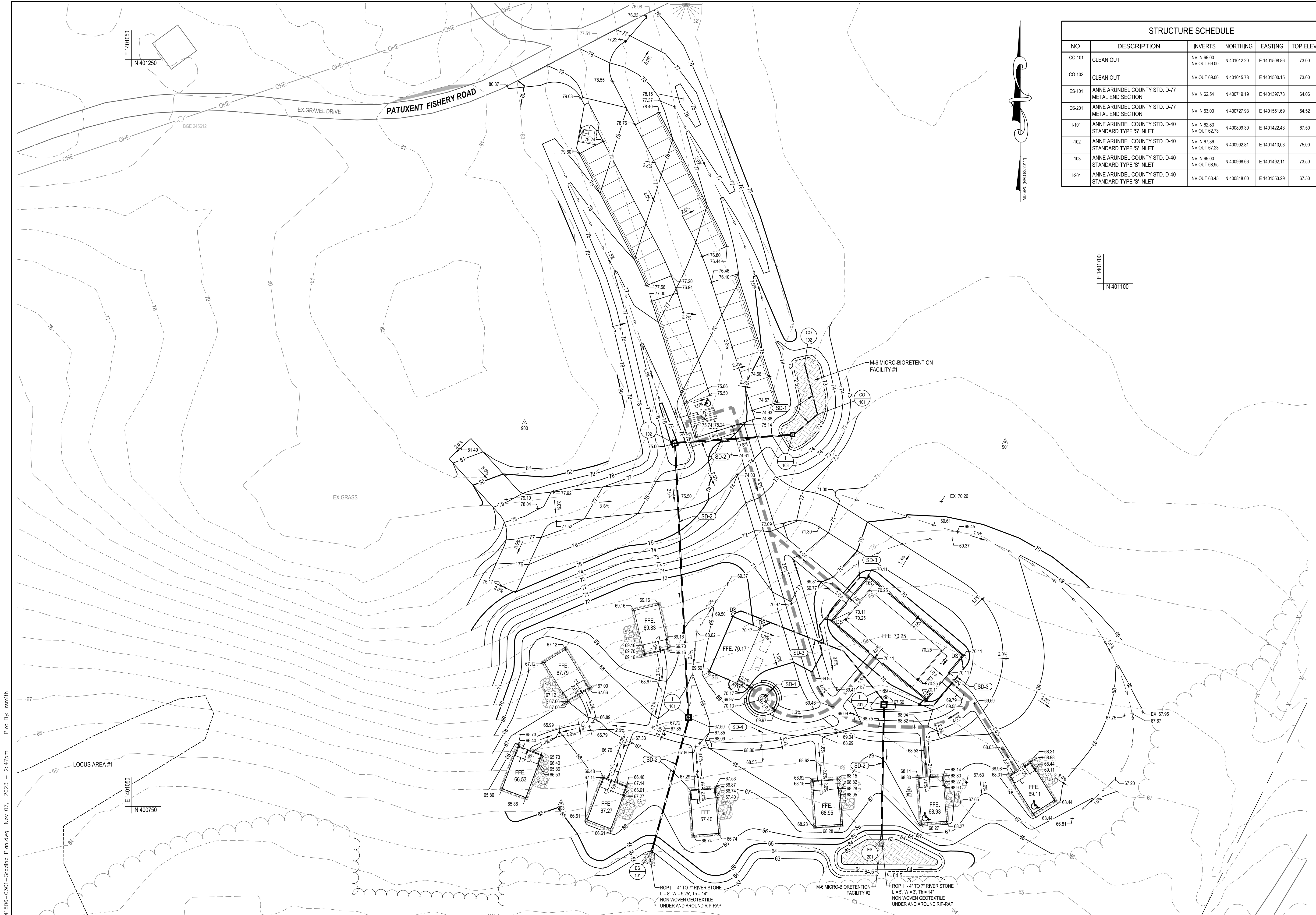
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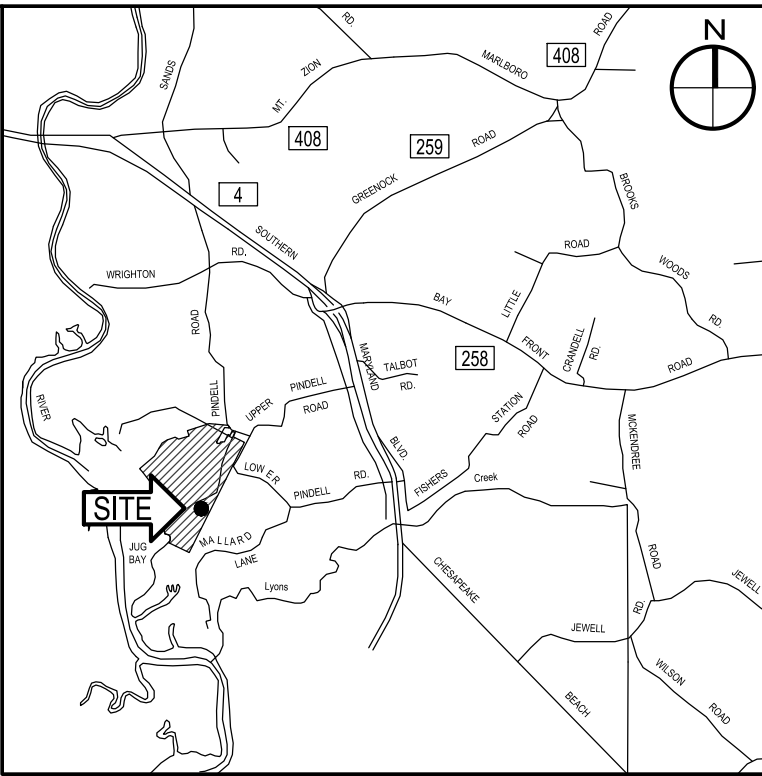
WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 300
Baltimore, MD 21286
410.512.4500 www.wbcm.com

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 # 27734, Expiration Date: 07/12/24

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STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
CO-101	CLEAN OUT	INV IN 69.00 INV OUT 69.00	N 401012.20	E 1401508.86	73.00
CO-102	CLEAN OUT	INV IN 69.00 INV OUT 69.00	N 401045.78	E 1401500.15	73.00
ES-101	ANNE ARUNDEL COUNTY STD. D-77 METAL END SECTION	INV IN 62.54	N 400719.19	E 1401397.73	64.06
ES-201	ANNE ARUNDEL COUNTY STD. D-77 METAL END SECTION	INV IN 63.00	N 400727.83	E 1401551.69	64.52
I-101	ANNE ARUNDEL COUNTY STD. D-40 STANDARD TYPE 'S' INLET	INV IN 62.83 INV OUT 62.73	N 400809.39	E 1401422.43	67.50
I-102	ANNE ARUNDEL COUNTY STD. D-40 STANDARD TYPE 'S' INLET	INV IN 67.36 INV OUT 67.23	N 400992.81	E 1401413.03	75.00
I-103	ANNE ARUNDEL COUNTY STD. D-40 STANDARD TYPE 'S' INLET	INV IN 69.00 INV OUT 68.95	N 400998.66	E 1401492.11	73.50
I-201	ANNE ARUNDEL COUNTY STD. D-40 STANDARD TYPE 'S' INLET	INV IN 63.45	N 400818.00	E 1401553.29	67.50



VICINITY MAP
SCALE: 1" = 8.333'

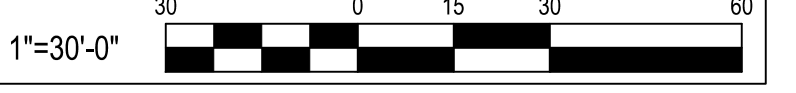
STORM DRAIN NOTES

- SD-1 NEW 4" PERFORATED UNDER DRAIN.
- SD-2 NEW 15" HOPE PIPE.
- SD-3 NEW 6" HOPE PIPE
- SD-4 NEW 4" SOLID PVC

GRADING & STORM DRAIN LEGEND

- NEW MAJOR CONTOUR ——— 70 ———
- NEW MINOR CONTOUR ——— 71 ———
- ADA PATH ———
- NEW SPOT ELEVATION 71.50
- NEW INLET
- NEW MANHOLE
- FLOW ARROW
- NEW STORM DRAIN
- NEW CLEAN OUT
- NEW INLET
- NEW END SECTION
- NEW DRAINAGE MANHOLE
- NEW DOWNSPOUT & BOOT CONNECTION
- NEW SPLASH BLOCK

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.



BID SET

WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 300
Baltimore, MD 21286
410.512.4500 www.wbcm.com

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE	SCALE: 1" = 30'
				DRAWN BY: R.S.S.
				CHECKED BY: R.W.H.
				SHEET NO. 09 OF 63
				PROJECT NO.: P584501
				CONTRACT NO.: P584500

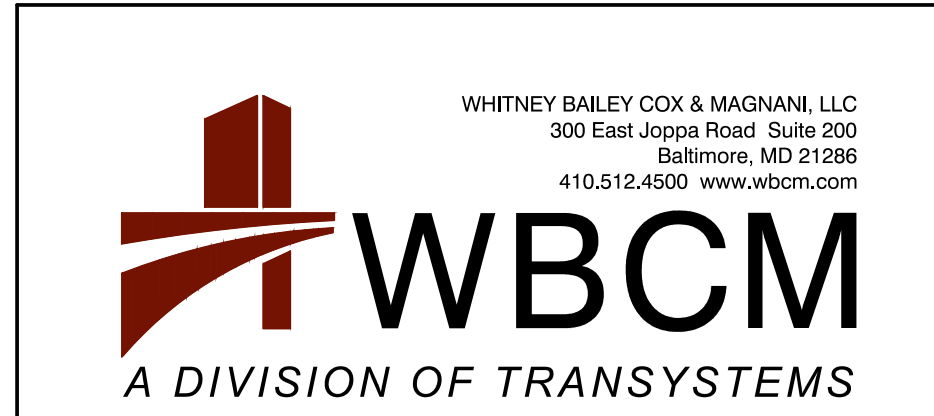
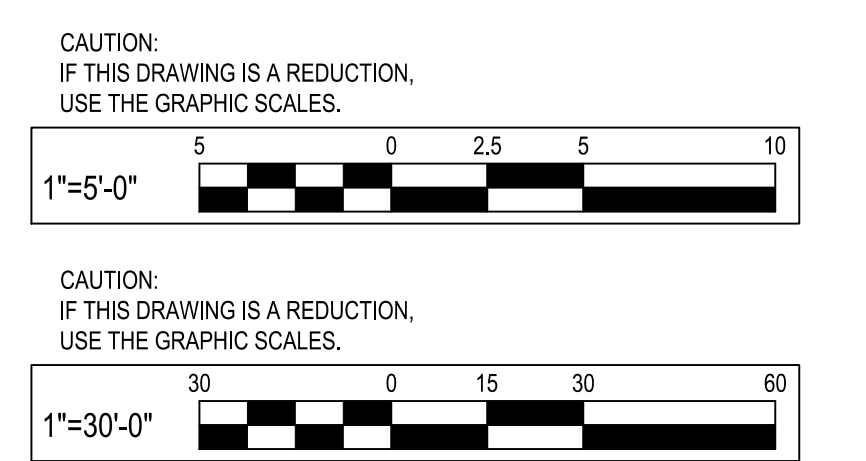
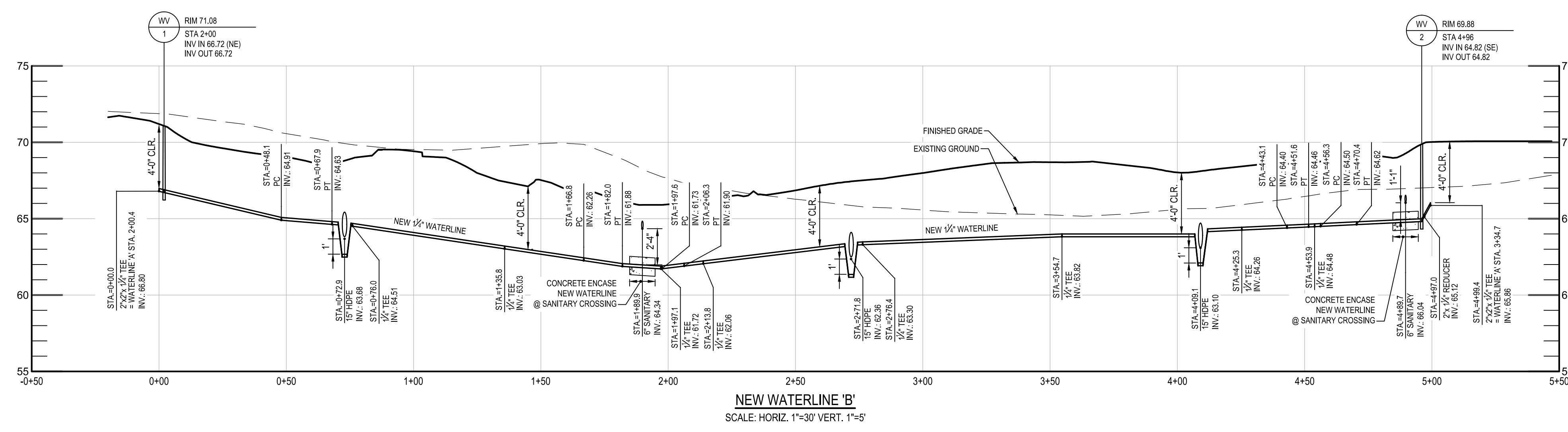
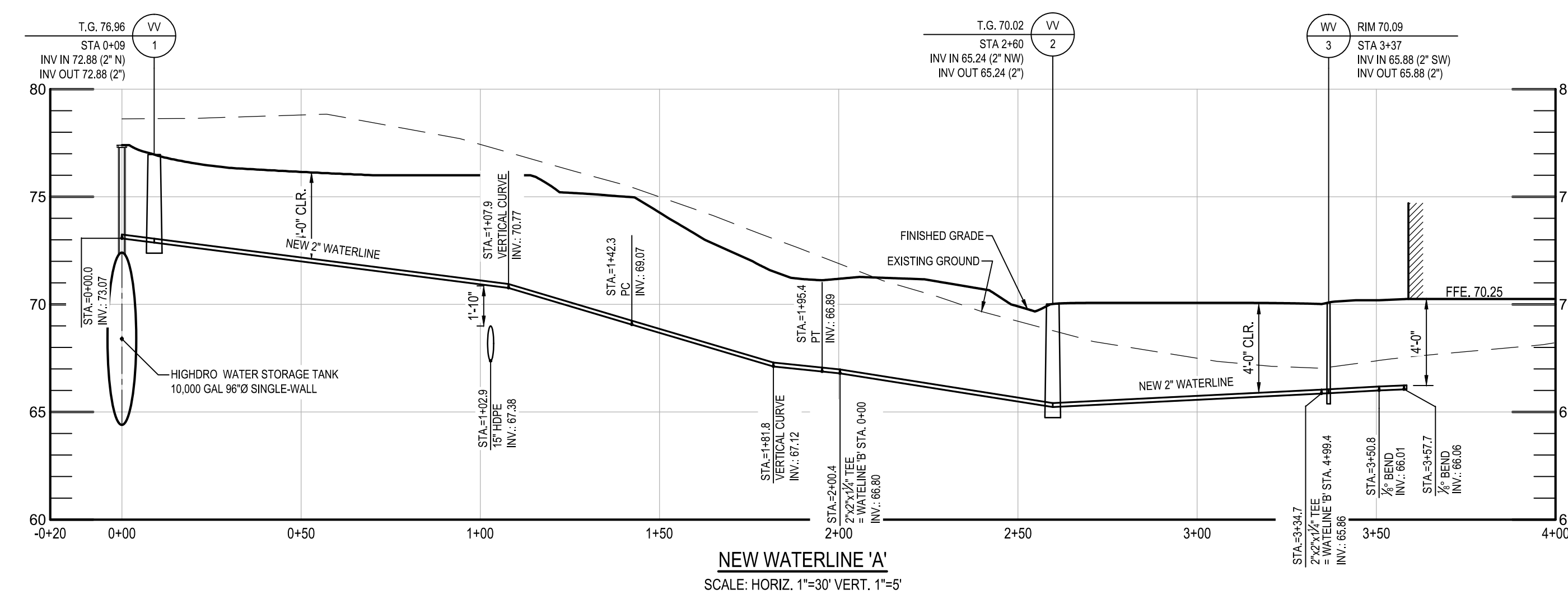
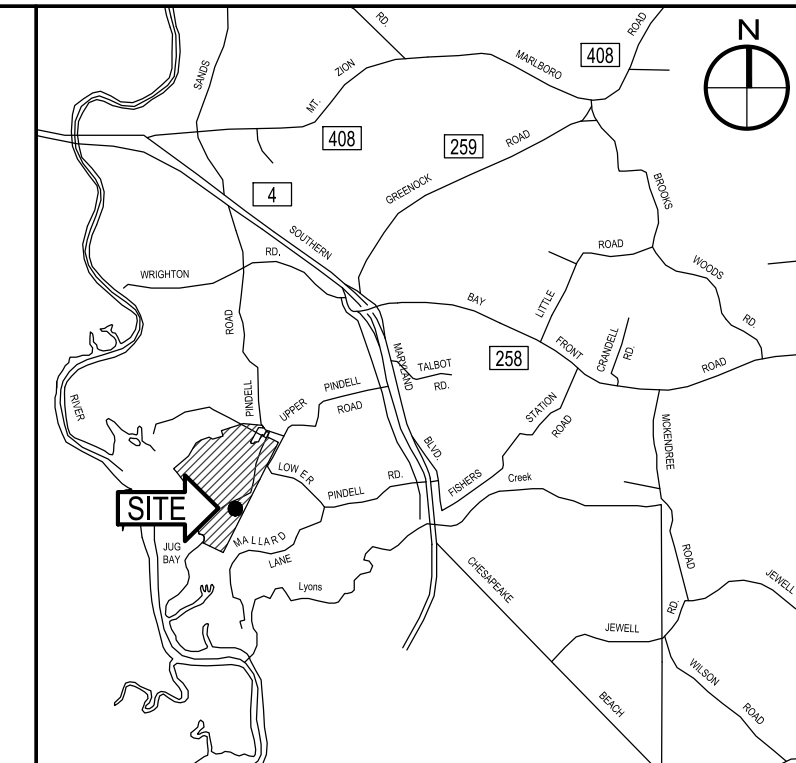
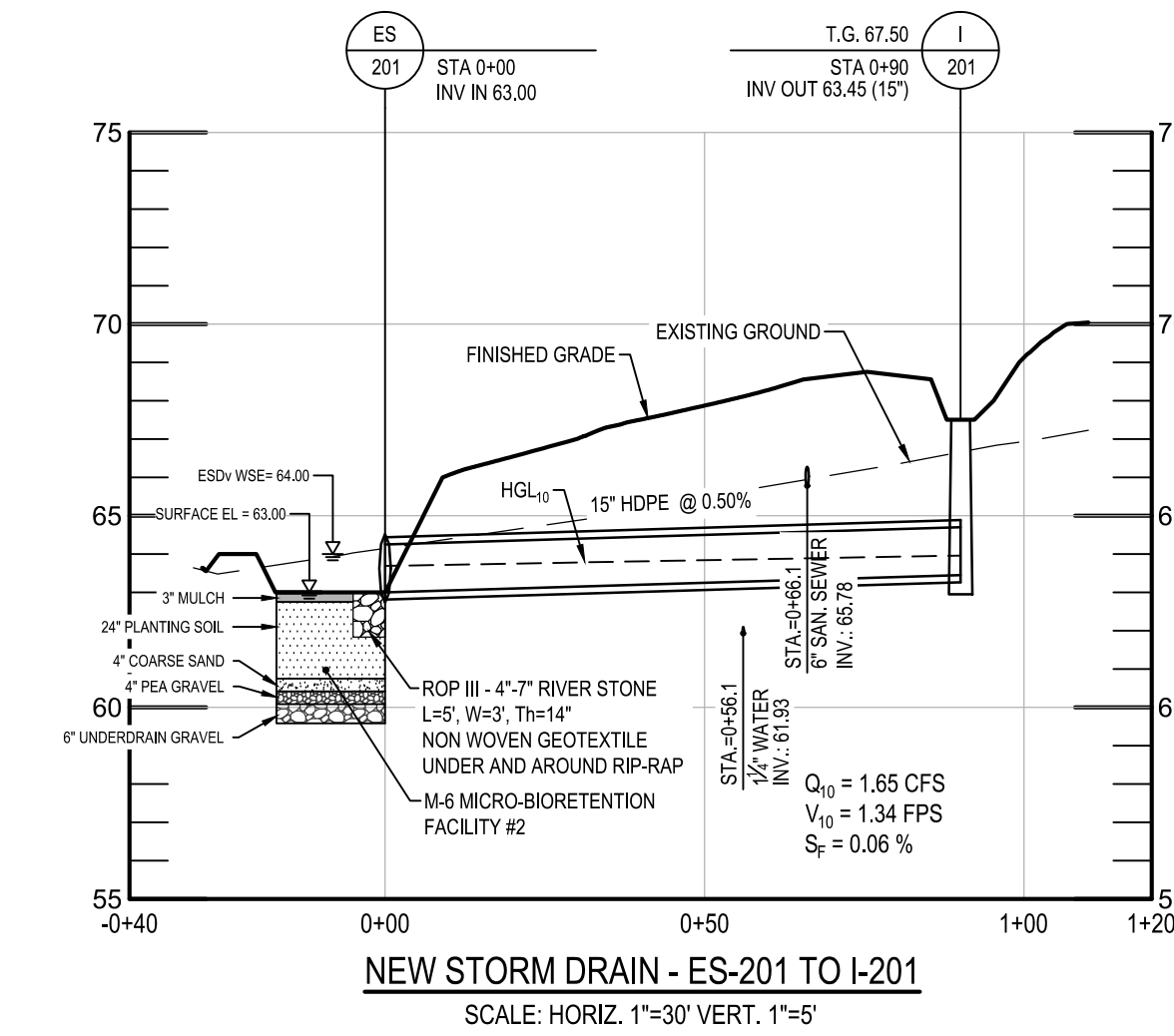
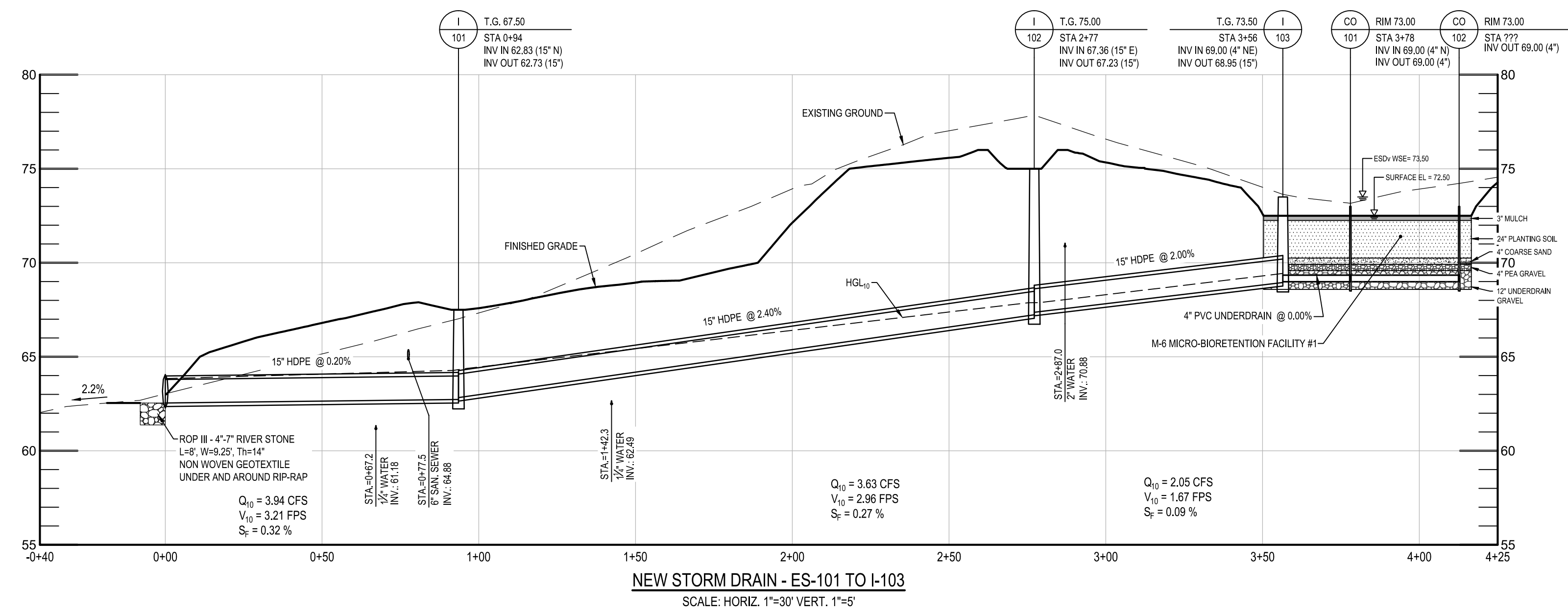
**JUG BAY EDUCATION, RESEARCH, AND
DISCOVERY FIELD STATION**

GRADING PLAN

C301

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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 # 27734, Expiration Date: 07/12/24



REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

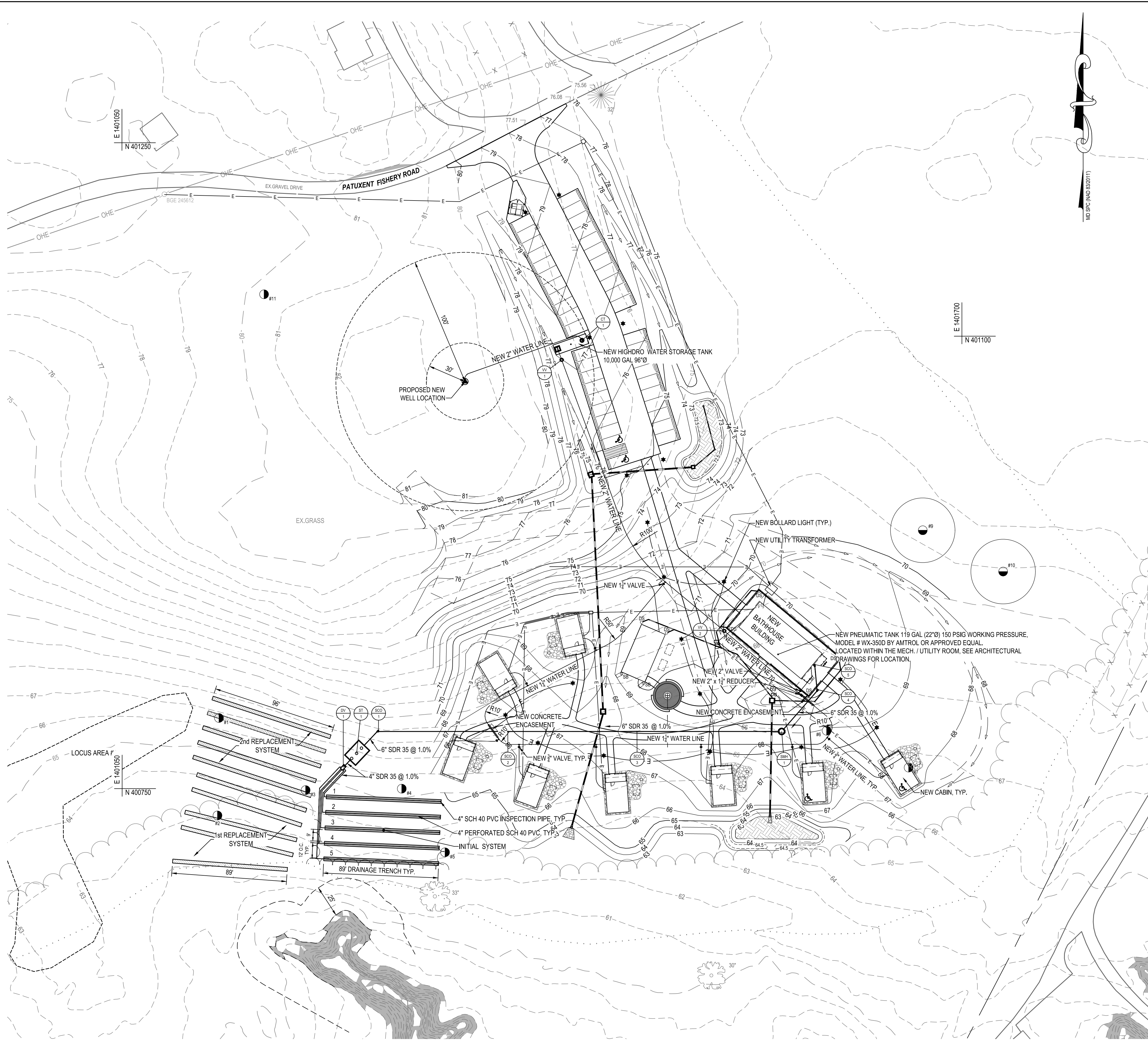
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CHECKED BY:	R.W.H.
SHEET NO.	10 OF 63
PROJECT NO.:	P584501
CONTRACT NO.:	P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION

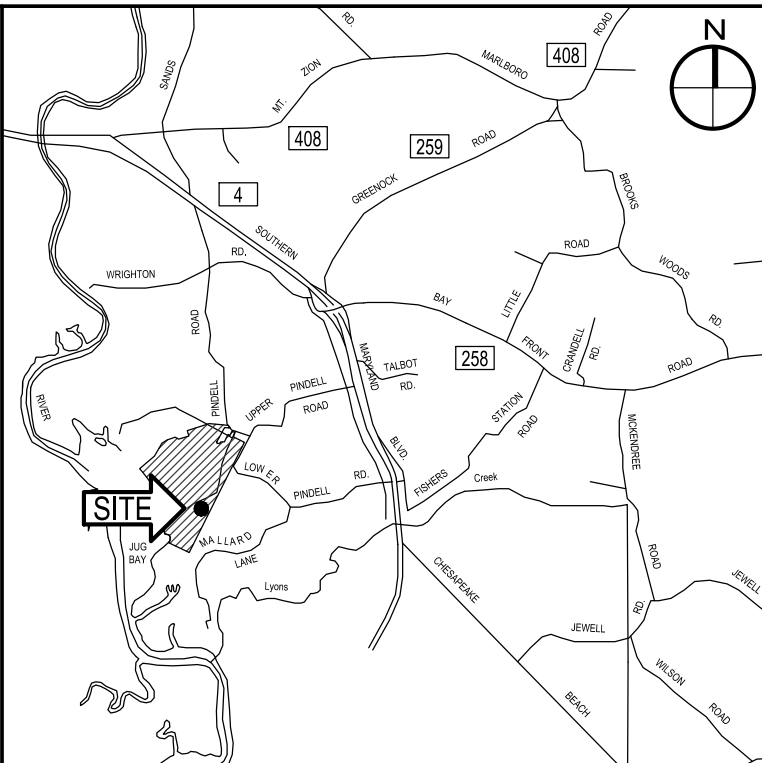
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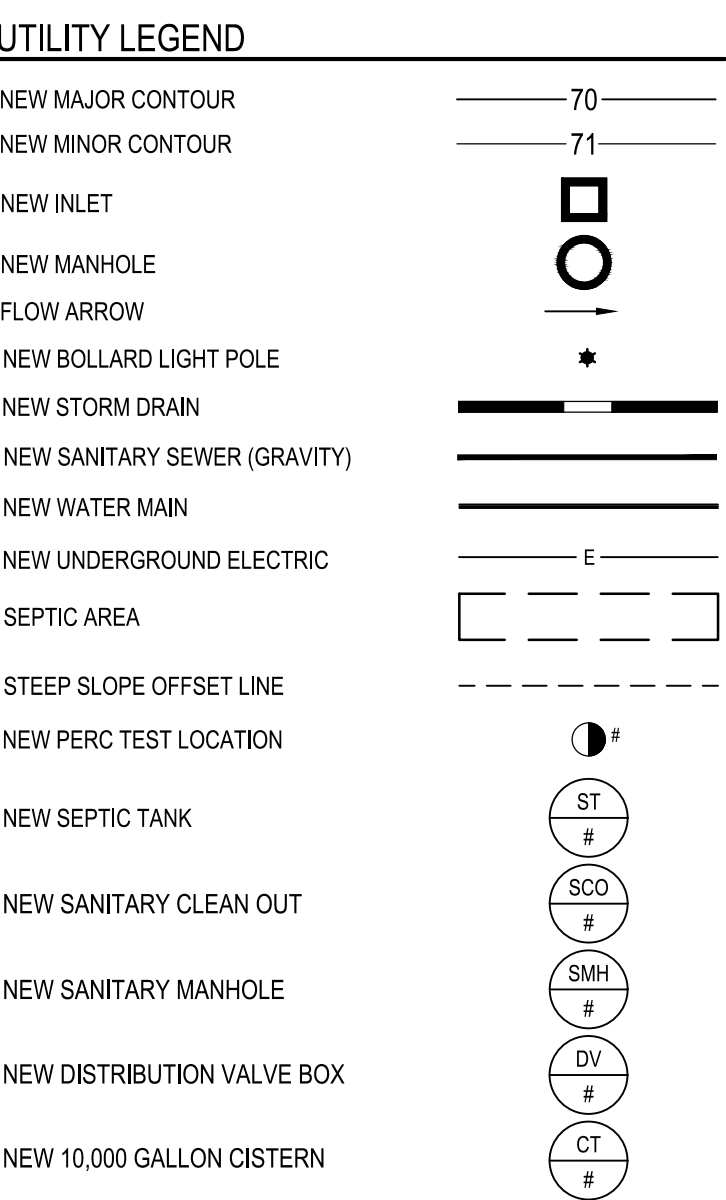
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STRUCTURE SCHEDULE					
NO.	DESCRIPTION	INVERTS	NORTHING	EASTING	TOP ELEV.
DV-1	DISTRIBUTION BOX	INV OUT 63.35 INV OUT 63.35	N 400766.21	E 1401221.26	65.90
OBS-1	OBSERVATION / INSPECTION PIPE	INV OUT 63.21	N 400739.72	E 1401296.57	64.72
SCO-1	CLEAN OUT	INV IN 62.74 INV OUT 63.74	N 400793.98	E 1401247.66	68.73
SCO-4	CLEAN OUT	INV IN 66.11 INV OUT 66.11	N 400825.38	E 1401588.14	70.07
SCO-5	CLEAN OUT	INV IN 66.24 INV OUT 66.24	N 400844.62	E 1401586.34	70.23
SMH-1	ANNE ARUNDEL COUNTY STD. S-11 STANDARD PRECAST MANHOLE	INV IN 65.83 INV OUT 65.83	N 400793.98	E 1401560.66	68.60
ST-1	5,000 GALLON SEPTIC TANK	INV IN 63.64 INV OUT 63.39	N 400777.09	E 1401231.59	67.00



STORM DRAIN NOTES
SD-1 NEW 4" PERFORATED UNDER DRAIN.
SD-2 NEW 15" HDPE PIPE.
SD-3 NEW 6" HDPE PIPE.
SD-4 NEW 4" SOLID PVC.



DESIGN DATA-SEWAGE DISPOSAL SYSTEM

1. DESIGN FLOW:
1.1 TRAVEL TRAILER PARK/ CAMPS - CHILDREN'S CAMP, 100 GPD/PERSON
1.2 CABINS WITH A CAPACITY OF 4 PEOPLE
1.3 $Q = 4 \times 8 \times 100 = 3,200$ GPD (ESTIMATED DAILY PEAK FLOW)
LATERAL PIPE @ 1' DEPTH

(INITIAL AND 1ST REPLACEMENT SYSTEMS)
 $(W+2) \times (W+1+2D) \times AREA / WIDTH = 0.50$
 $(3+2) \times (3+1+2(3)) = 5 \times 10 = 0.50$
 $(3,200 \div 1.2 = 2,667) \times 0.50 = 1,334 \div 3 = 445$ FT OF TRENCH

(2ND REPLACEMENT SYSTEM)
 $(W+2) \times (W+1+2D) \times AREA / WIDTH = 0.36$
 $(3+2) \times (3+1+2(5)) = 5 \times 14 = 0.36$
 $(3,200 \div 0.8 = 4,000) \times 0.36 = 1,440 \div 3 = 480$ FT OF TRENCH

REFER TO SHEET E101 FOR ELECTRICAL SITE PLAN

WELL NOTE

1. NEW WELL TO BE DRILLED BY CONTRACTOR AND LICENSED WELL DRILLER. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE WELL PERMITS FROM ANNE ARUNDEL COUNTY HEALTH DEPARTMENT AND/OR MDE. NEW WELL TO INCLUDE SUBMERSIBLE WELL PUMP AND CONNECTION TO THE NEW UNDERGROUND HOLDING TANK AS SHOWN ON THE DRAWING. PERFORMANCE REQUIREMENTS SHALL BE BASED UPON A MINIMUM FLOW OF 38 GPM AND A MINIMUM PRESSURE OF 55 PSI DOWNSTREAM OF BACKFLOW PREVENTION DEVICE. IF SUFFICIENT PRESSURE IS NOT AVAILABLE AT POINT-OF-CONNECTION INSTALL A BOOSTER PUMP.

2. SEPTIC TANK CAPACITY:
2.1 FLOWS OF 1,500 GPD OR GREATER
2.2 $V = 1.125 \text{ GAL} \times 0.75(Q) = 1.125 \times 0.75(3200) = 3,252$ GALLONS (MINIMUM)
2.3 USE 5,000 GALLONS

3. ABSORPTIVE AREA REQUIRED:
3.1. MAXIMUM SEWAGE APPLICATION RATES FOR COMMERCIAL, INSTITUTIONAL, AND OTHER NON-RESIDENTIAL ESTABLISHMENTS
3.2. 3 MIN/1" DROP, 1.2 GPD/SF FOR DRAIN FIELDS
8 MIN/1" DROP, 0.8 GPD/SF FOR DRAIN FIELDS

4. ABSORPTIVE AREA PROVIDED:
4.1. PROVIDED CONFIGURATION:
(INITIAL AND 1ST REPLACEMENT SYSTEMS)
(5) 3 TRENCHES AT 89 LF = $5 \times 3 \times 89 = 1,335$ SF
(2ND REPLACEMENT SYSTEM)
(5) 3 TRENCHES AT 96 LF = $5 \times 3 \times 96 = 1,440$ SF

5. LATERAL LENGTH:
5.1. (INITIAL AND 1ST REPLACEMENT SYSTEMS)
5 TRENCHES \times 89' = 445' TOTAL LENGTH
(2ND REPLACEMENT SYSTEM)
5 TRENCHES \times 96' = 480' TOTAL LENGTH
5.2. LATERAL DIAMETER = 4"
5.3. HOLE SPACING: 3 ROWS OF (20) 5/8" PERFORATIONS FOR A 10-FOOT SECTION OF PIPE.

GENERAL NOTES

1. WITHOUT THE EXPRESS WRITTEN CONSENT OF THE COUNTY (THROUGH THE OFFICE OF PLANNING AND ZONING'S CULTURAL RESOURCES DIVISION) THE OWNER OR MANAGER OF THE PROPERTY SHALL NOT CAUSE, PERMIT, OR SUFFER GRADING, EXCAVATION, PLOWING, SUBSOILING, DRAINAGE IMPROVEMENTS, OR OTHER UNDERTAKING OR ACTION THAT WOULD MATERIALLY DISTURB THE SURFACE OR SUBSURFACE OF THE GROUND AREA WITHIN THE ARCHAEOLOGICAL SENSITIVE AREA, WHICH IS A SIGNIFICANT ARCHAEOLOGICAL RESOURCE, AS RECORDED WITH THE STATE OF MARYLAND, AND KNOWN AS 18AN346.

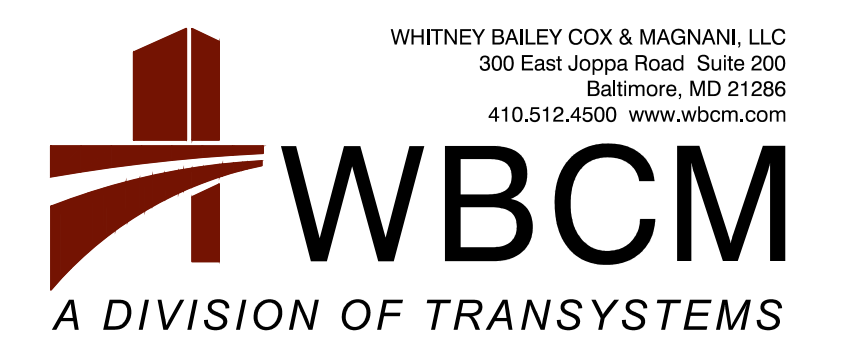
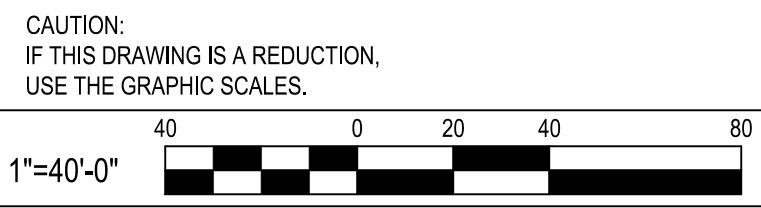
DESIGN DATA - SEWAGE DISPOSAL SYSTEM

WASTE WATER FLOW BY FIXTURES			
FIXTURE	GPD/FIXTURE	NO. OF FIXTURES	GPD
FLUSH TOILET	35	7	245
FAUCET	15	7	105
SHOWERS	100	7	700
LAUNDRY	50	1	50
TOTAL RESTROOM			365
TOTAL SHOWER			700
TOTAL LAUNDRY			50
		TOTAL	1115

TEST RESULTS

Perc No.	Time (Min.)	Depth	Soil Log	Water Table
1	8 min.	2'	0-10 Sandy Loam; 10 Grey Clay	10'
2	3 min.	2'	0-9 Sand; 9 Grey Clay	9'
3	3 min.	2'	0-8 Sand; 8 Grey Clay	8'
4	3 min.	2'	0-9 Sand; 9 Grey Clay	9'
5	3 min.	2'	0-8 Sand; 8 Grey Clay	8'
6	3 min.	2'	0-9 Sand; 9 Grey Clay	9'
7	3 min.	2'	0-9 Sand; 9 Grey Clay	9'
8	8 min.	2'	0-5 Sandy Loam; 5-10 Sandy Loamy Clay	10'
9	+30 min.	3'	0-8 Sandy Loamy Clay; 8-12 Grey Mottled Sand	12'
10	+30 min.	2'	0-8 Sandy Loamy Clay; 8-12 Grey Mottled Sand	12'
11	8 min.	3'	0-9 Sandy Loam; 9-18 Sandy Loamy Clay	18'

Property: 6032 Pindell Road.
Sanitarian: Chris Owens
Perc Date: 2/22/23



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License # 27734, Expiration Date: 07/12/24

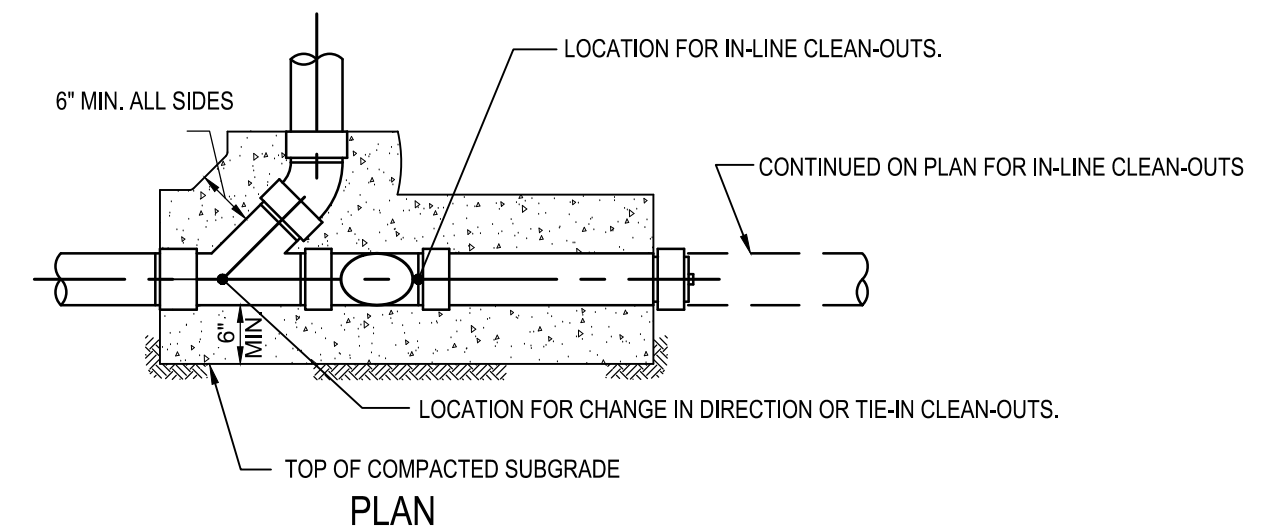
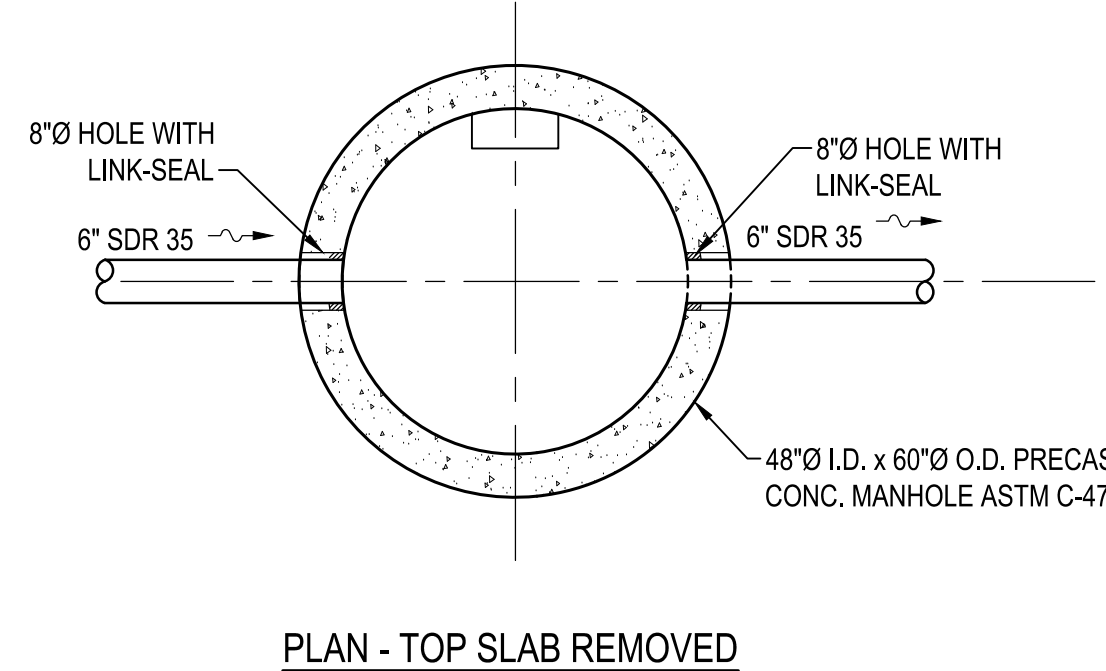
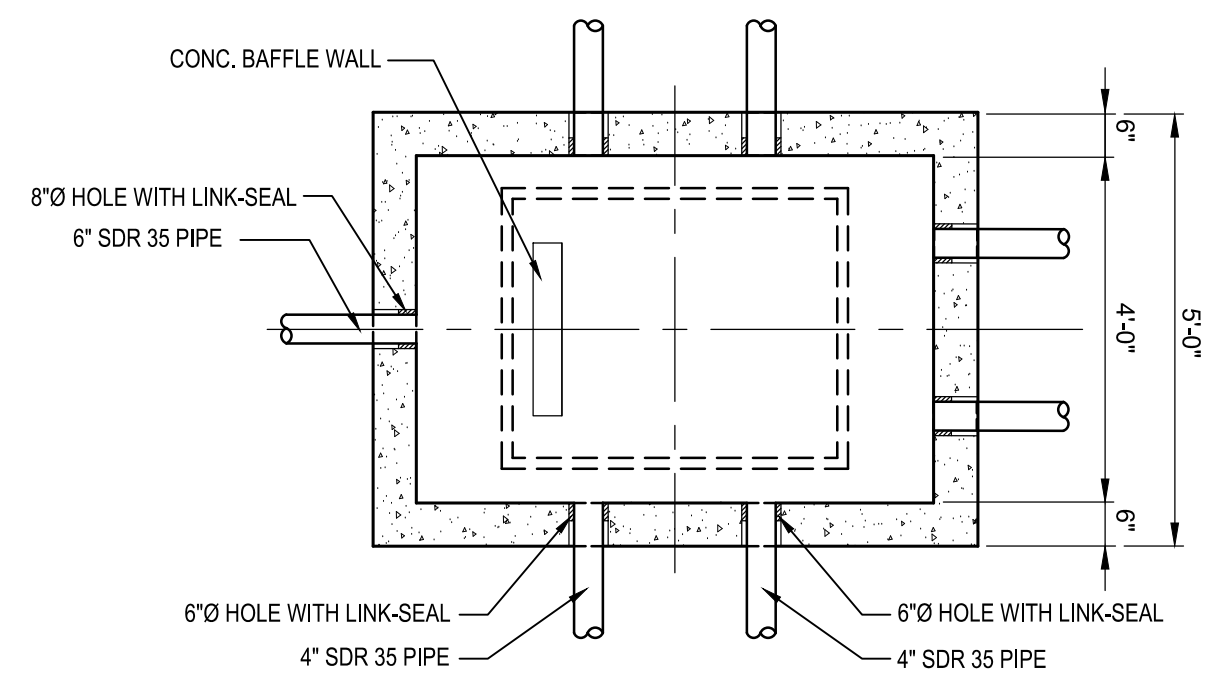
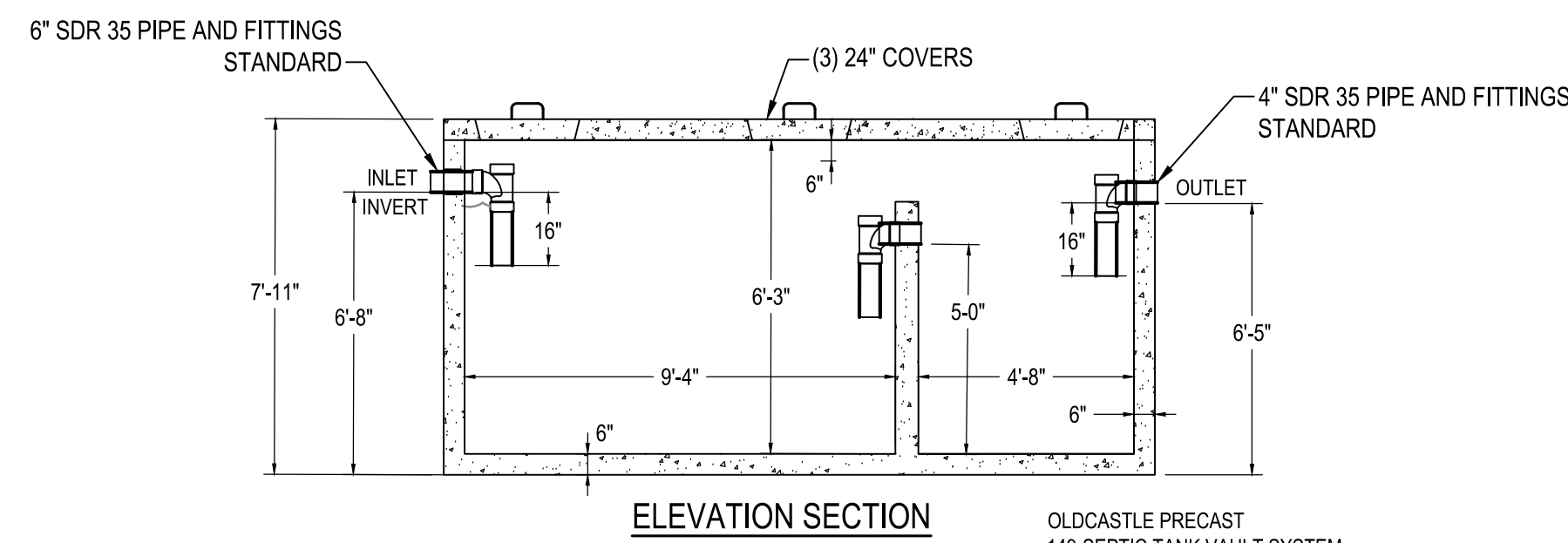
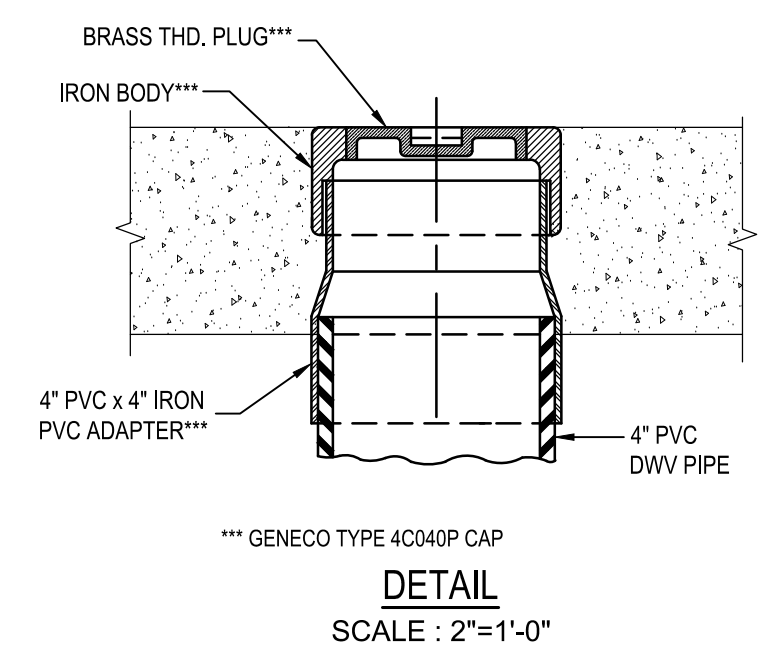
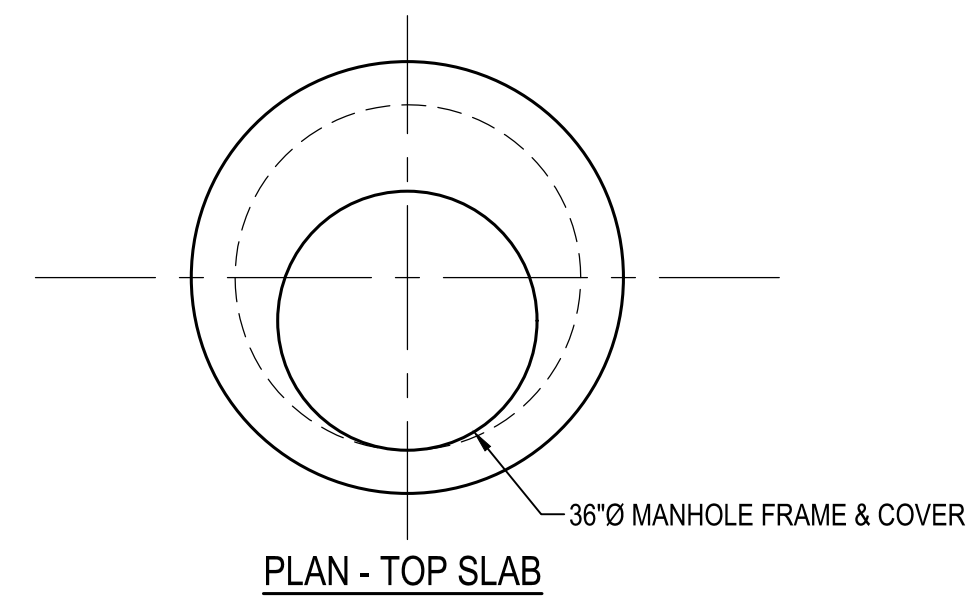
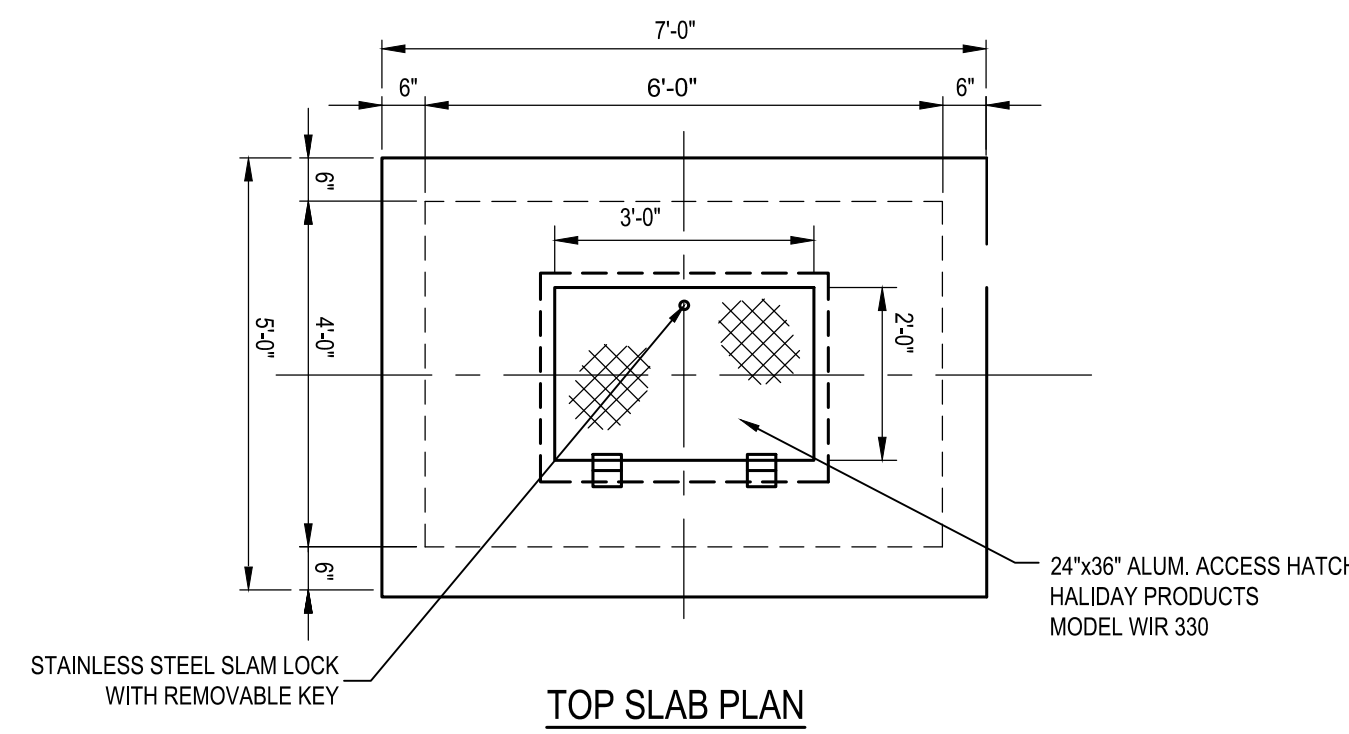
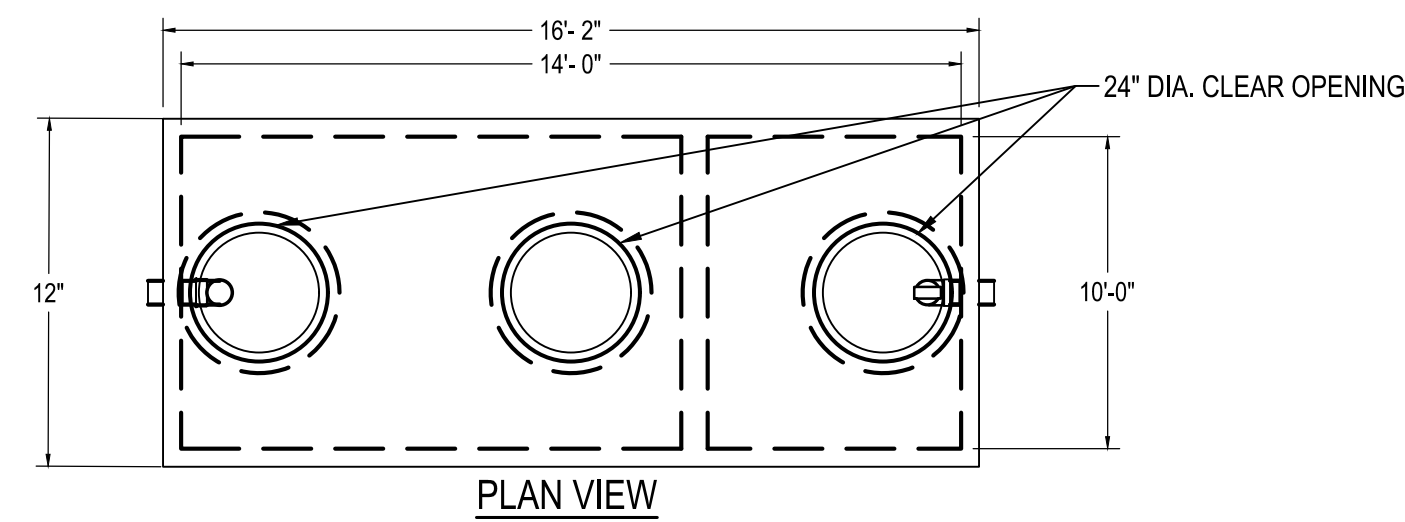
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

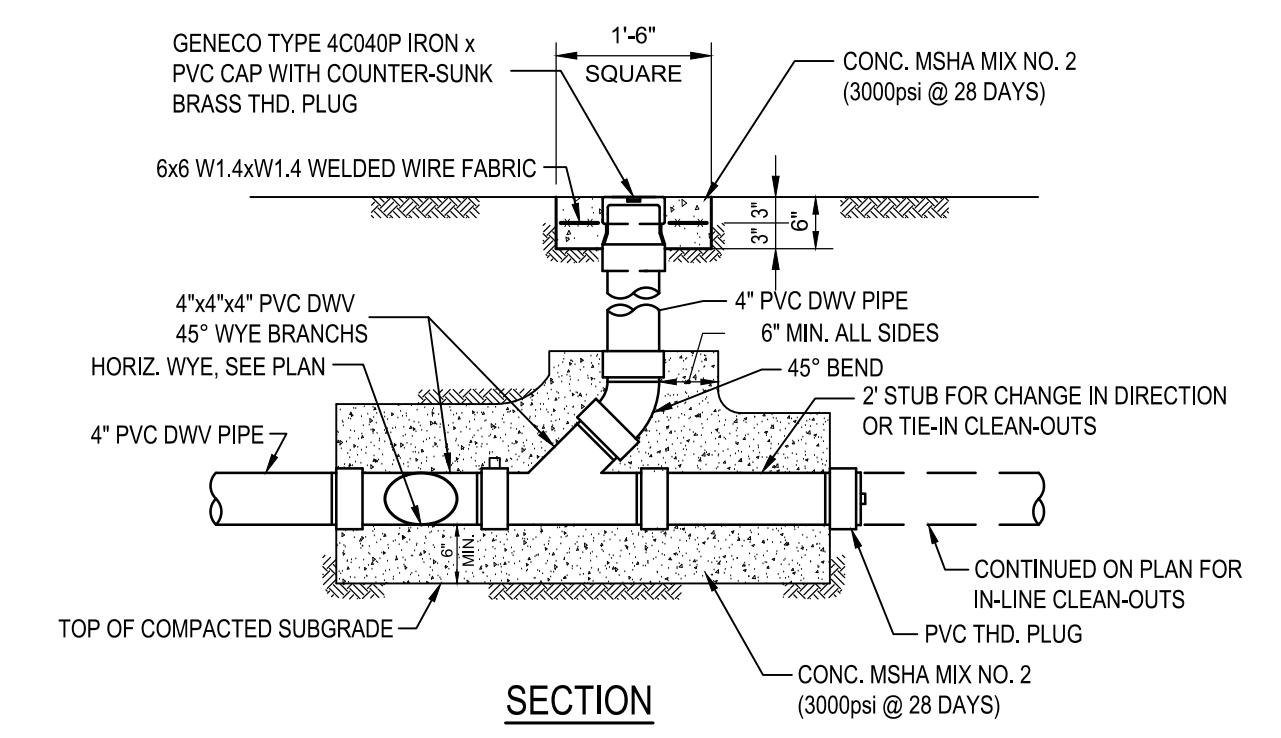
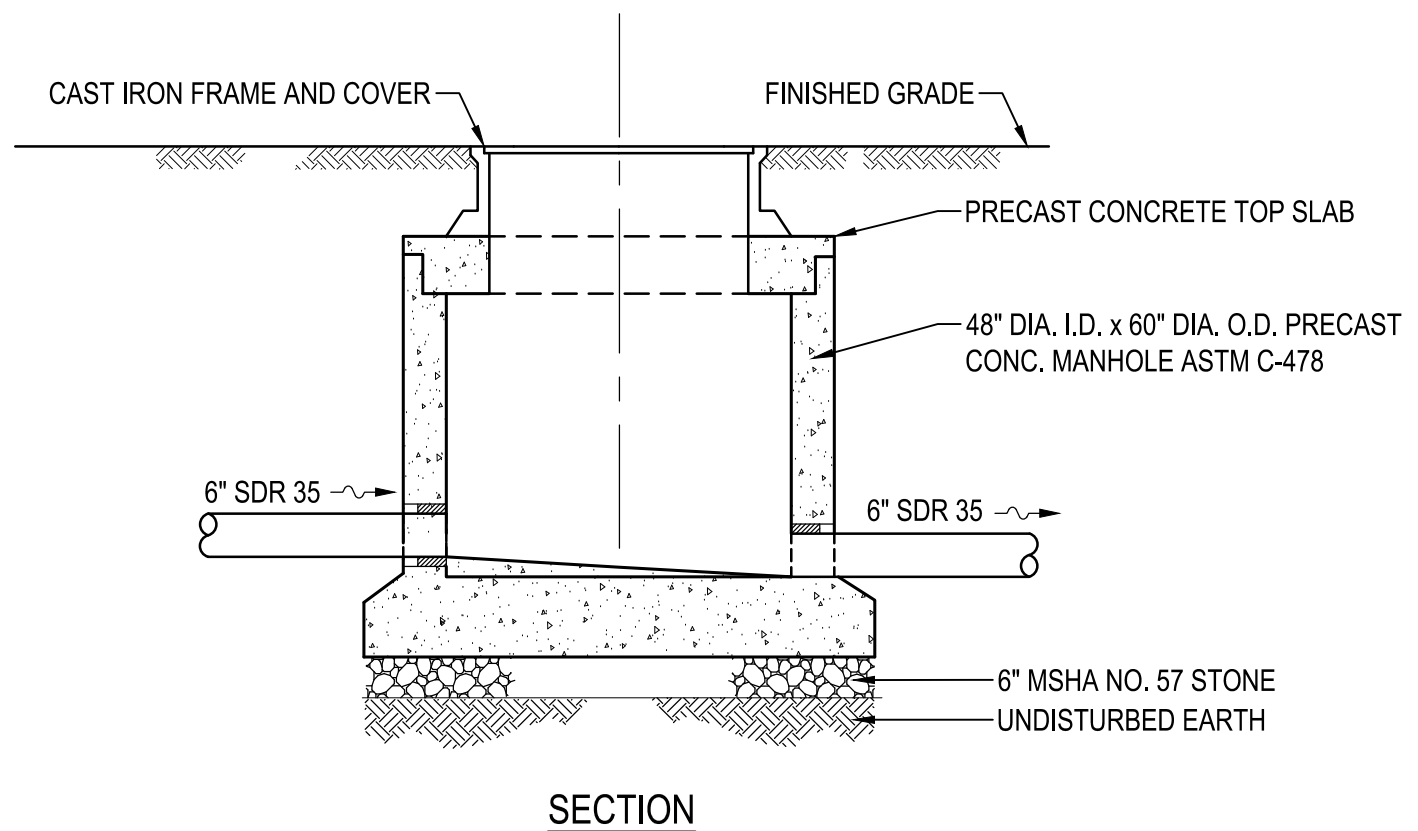
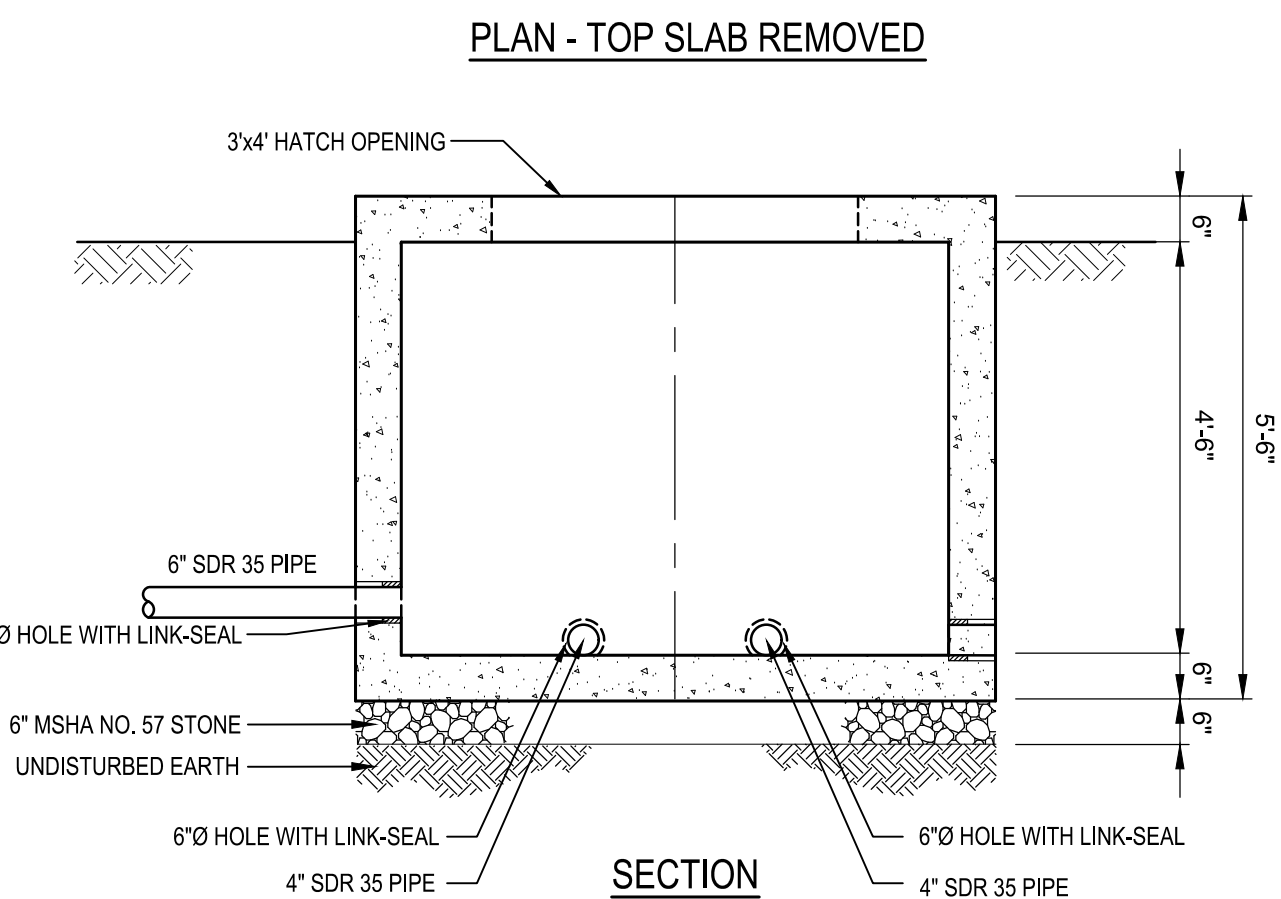
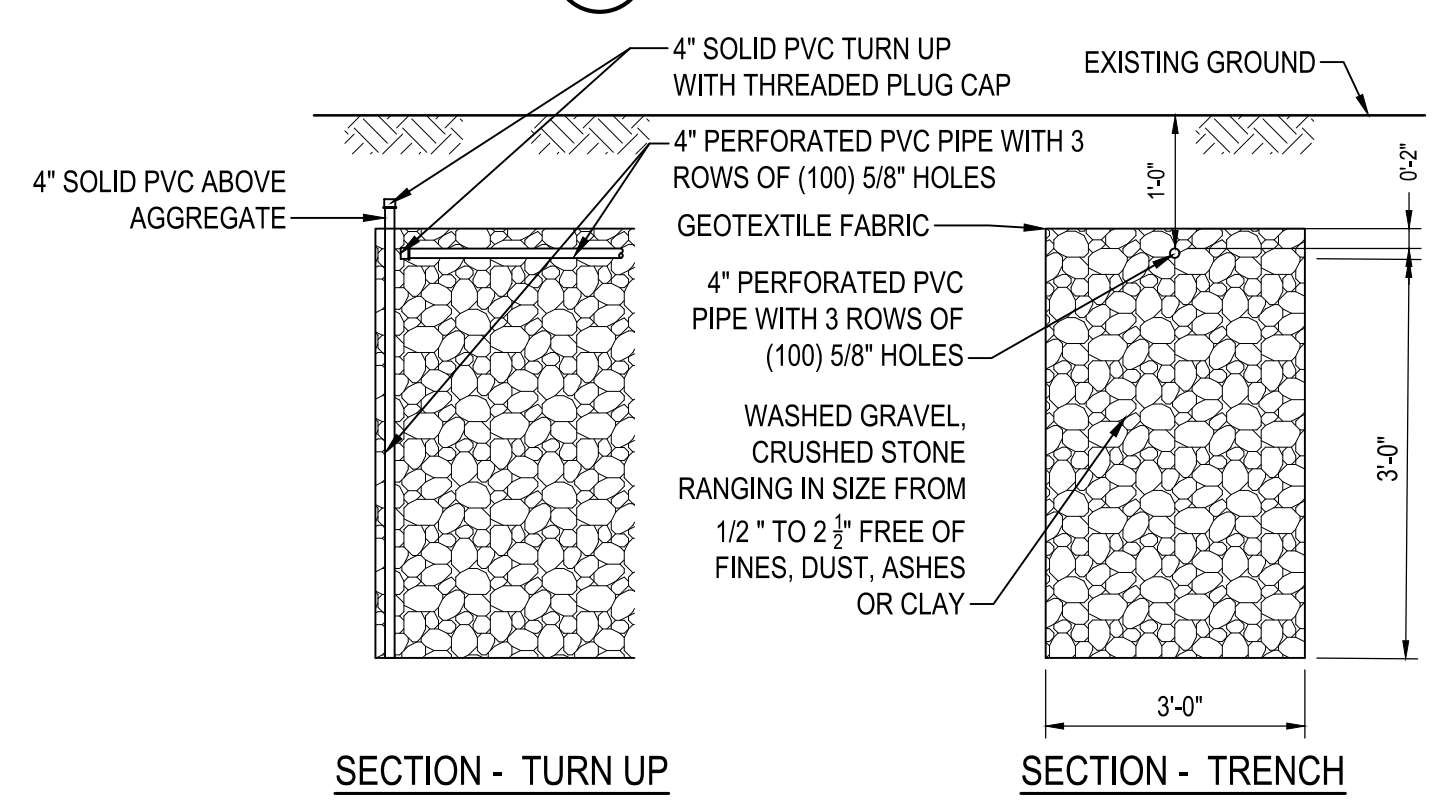
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				CHECKED BY: R.W.H.
				SHEET NO. 11 OF 63
				PROJECT NO.: P584501
				CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
UTILITY PLAN
C401

P:\2017\17141806\Drawings\07-Site\17141806-C401-Utility Plan.dwg Nov 08, 2023 10:03am Plot By: remith



5,000 GAL. SEPTIC TANK

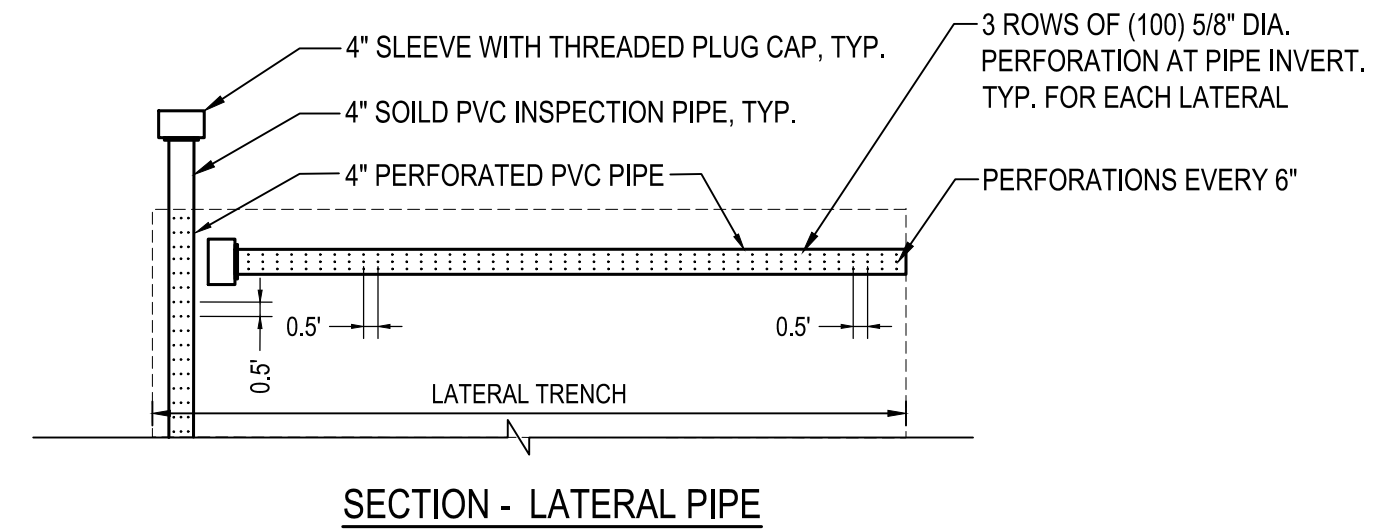


CLEAN OUT

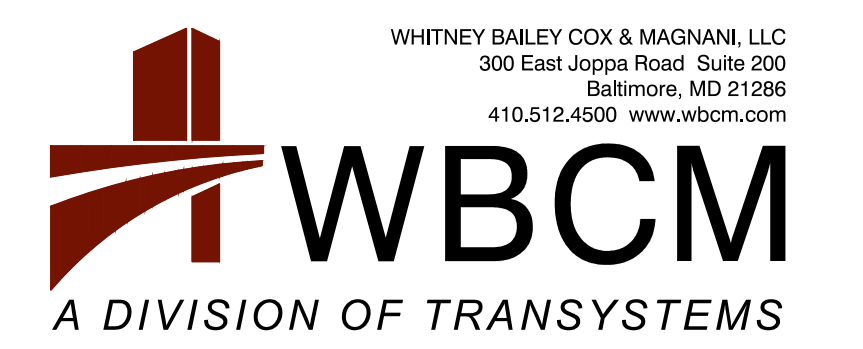
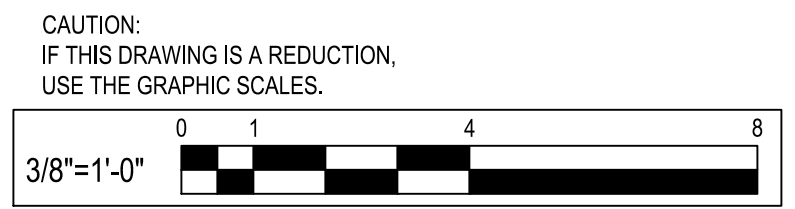
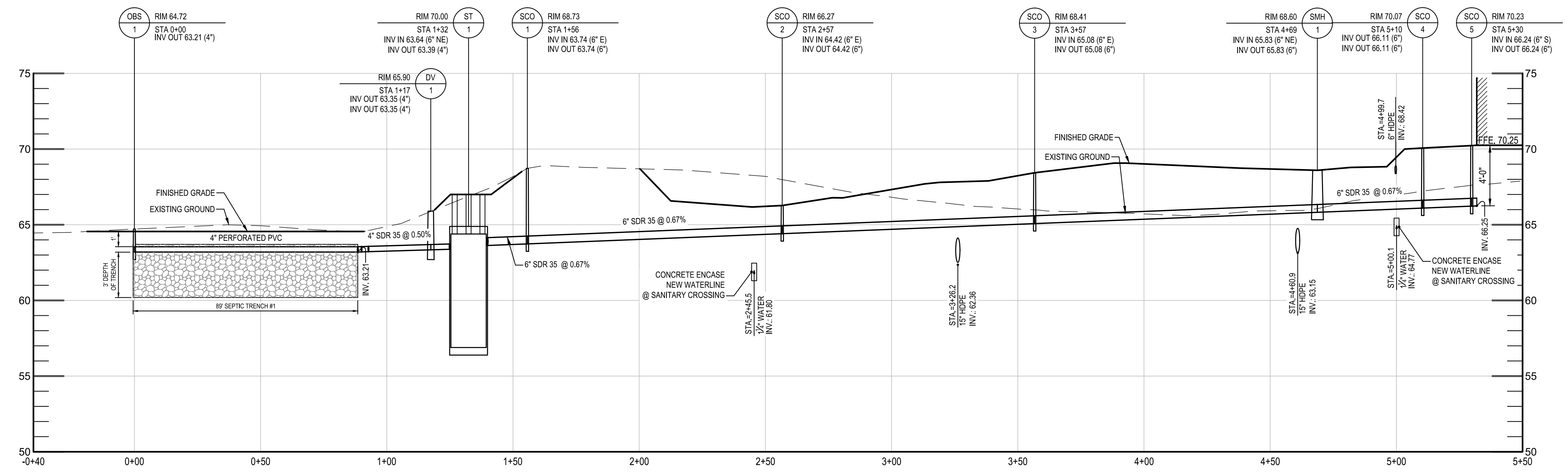
DISTRIBUTION BOX

SANITARY MANHOLE

NOTES:
1. DIMENSION TO BE CONFIRMED BY THE MANUFACTURER.



DRAINFIELD TRENCH



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REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

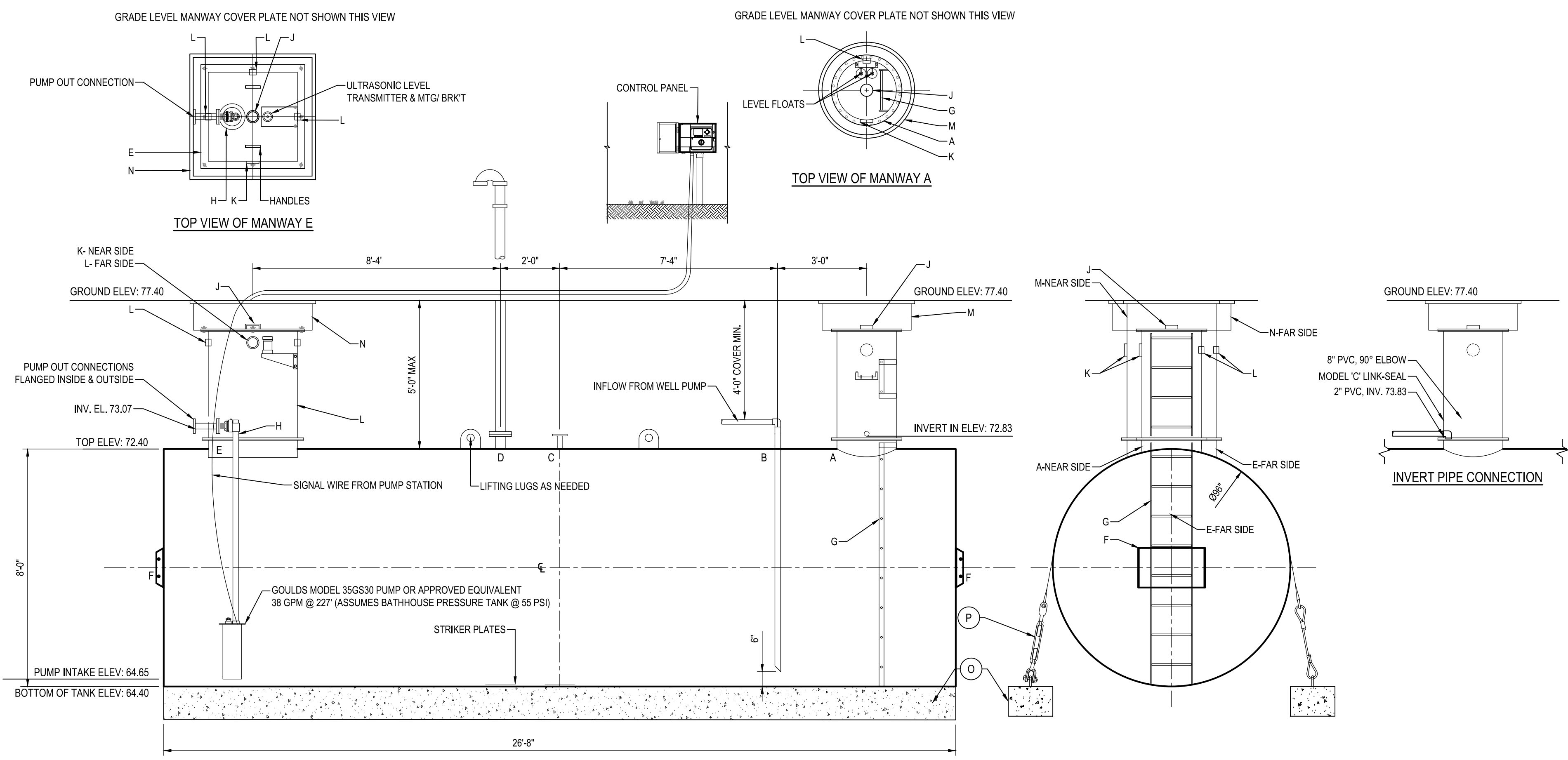
SCALE: AS SHOWN
DRAWN BY: R.S.S.
CHECKED BY: R.W.H.
SHEET NO. 12 OF 63
PROJECT NO.: P584501
CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
UTILITY DETAILS AND PROFILE

C402

P:\2017\17141806\Drawings\07-Site\17141806-C402_ Utility Details.dwg Nov. 07, 2023 - 2:51pm Plot By: rsmith

P:_2017\17141806\Drawings\07-Site\17141806-C402_UTILITY DETAILS.dwg Nov. 07, 2023 - 2:51pm Plot By: rsmith



HighDRO WATER STORAGE TANK
10,000 GAL 96"Ø SINGLE-WALL UNDERGROUND HORIZONTAL FOR POTABLE WATER WITH PUMP OUT

DESIGN DATA	
CAPACITY -	10,000 GALLONS
TYPE -	SINGLE WALL, HIGHGUARD UNDERGROUND
NO. REQ. -	-
OPERATING PRESSURE -	ATMOSPHERIC
TANK MATERIAL -	MILD CARBON STEEL
THICKNESS - HEADS -	1/4"
THICKNESS - SHELL -	1/4"
*GA THK. BASED ON 60" MAX. BURIAL DEPTH	
CONSTRUCTION -	FLAT FLANGED HEADS, LAP WELD INSIDE & OUTSIDE
TANK TEST -	5 PSIG
INT. FINISH -	SP10 BLAST HighDRO® LINER PLUS FOR NSF 61 APPLICATIONS
EXT. FINISH -	SP6 BLAST, 75 MILS POLYURETHANE
LABEL -	UL-1746 PART IV, HIGHGUARD

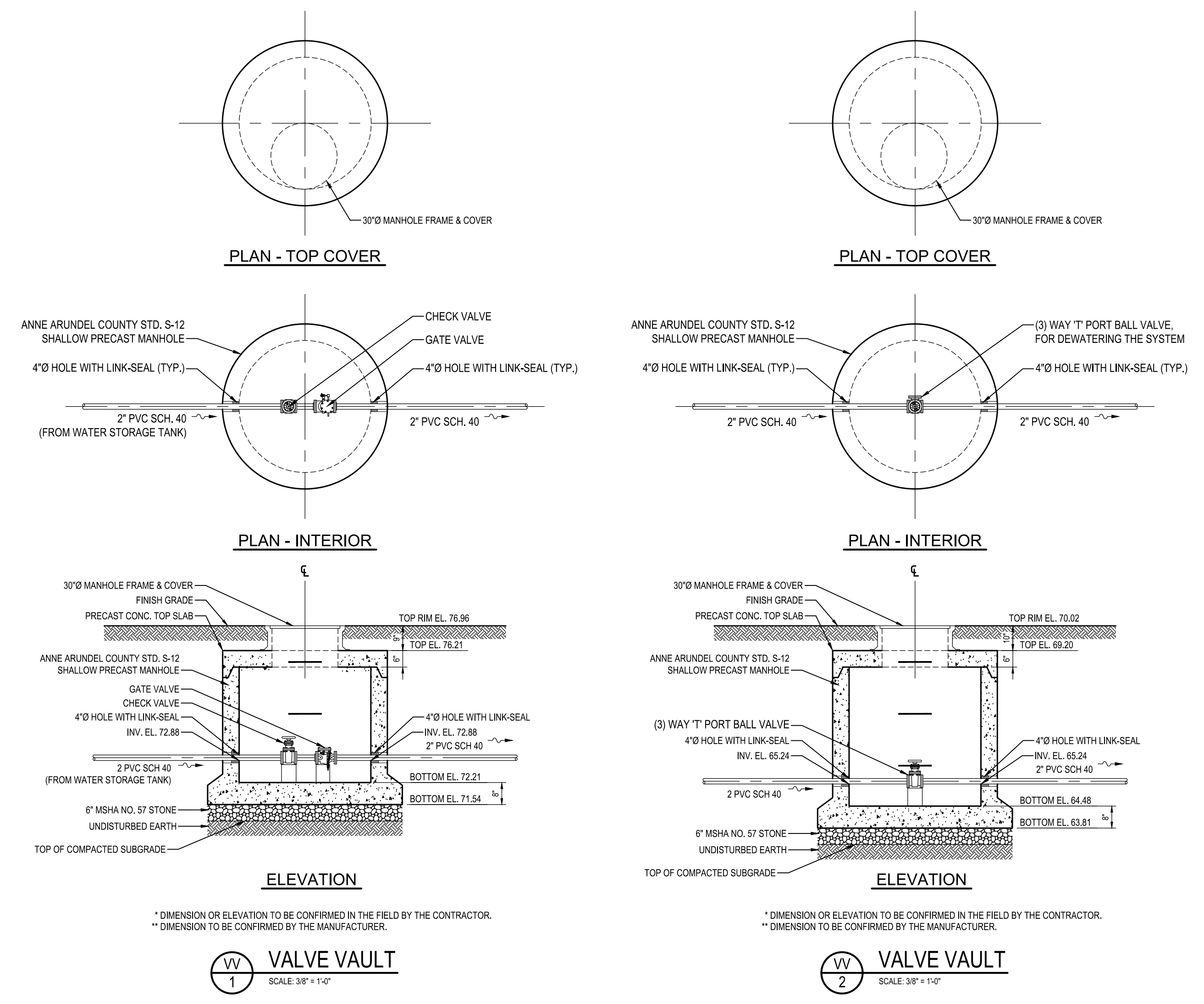
NOTE: AT LEAST ONE 2" VENT PIPE MUST BE INSTALLED IN EACH MANWAY RISER

LEGEND	
A	24"Ø TIGHT BOLT MANWAY w/ 1/2" THK. EPDM GASKET & MANWAY EXTENSION
B	150# RFSO FLANGE WITH SCH 40 DROP TO WITHIN 6" OF TANK BOTTOM (FILL CONNECTION)
C	2" 150# RFSO FLANGE
D	150# RFSO FLANGE w/ GOOSENECK VENT (VENT CONNECTION)
E	36" x 36" SQ. MANWAY w/ 1/2" THK. EPDM GASKET & MANWAY EXTENSION w/ ALUMINUM COVER PLATE AND HANDLES
F	HTM SPIN BRKT - MFG USE ONLY - NOT TO BE USED FOR FIELD INSTALLATION
G	16" WIDE INTERNAL LADDER w/ 3/4" RUNGS ON 12" SPACING.
H	PUMPS
J	4" FNPT FITTING (GAUGE)
K	4" FNPT FITTING (VENT)
L	2" FULL COUPLING (ELECTRICAL CONNECTION)
M	GRADE LEVEL MANWAY - 36"Ø H-20 w/ LOCKABLE COVER PLATE
N	GRADE LEVEL MANWAY - 48" x 48" H-20 w/ LOCKABLE COVER PLATE
O	(6) CDA-15 CONCRETE DEADMAN, 4.5" x 4.5"
P	(6) POLYESTER HOLD-DOWN STRAPS

- NOTES:**
- 1) THE HIGHGUARD TANK IS NOT APPROVED FOR THE STORAGE OF HEATED PRODUCTS
 - 2) 15,000 VOLT SPARK TEST PROVIDED AT FACTORY.
 - 3) SHOP TO INSTALL 11/4"x12"x12" STRIKER PLATES, ROLLED AND SEAL WELD TO THE TANK.

CISTERN DUPLEX PUMP STATION

MODEL: GOULDS MODEL 35GS30
DISCHARGE DIA.: 2 INCH
MOTOR: 3 HP
VOLTS: 230 V, 60 HZ
PHASE: 3-WIRE SINGLE PHASE
DESIGN POINT: 38 GPM @ 98 PSI

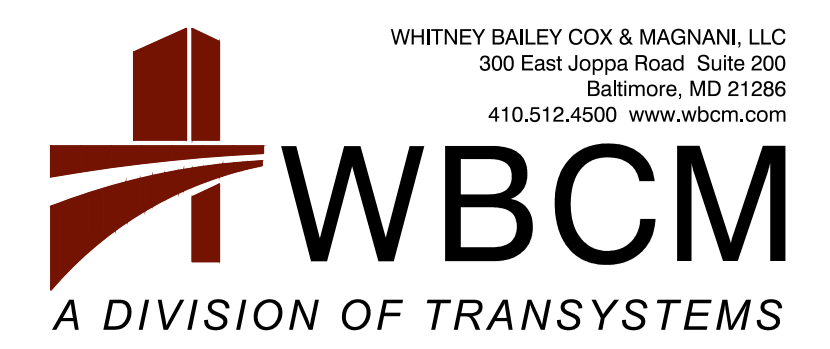
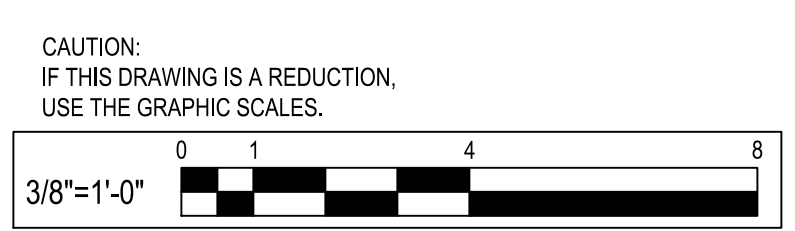


* DIMENSION OR ELEVATION TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.
** DIMENSION TO BE CONFIRMED BY THE MANUFACTURER.

10,000 GAL. HIGHDRO POTABLE WATER TANK
SCALE: 3/8" = 1'-0"

VALVE VAULT
SCALE: 3/8" = 1'-0"

VALVE VAULT
SCALE: 3/8" = 1'-0"

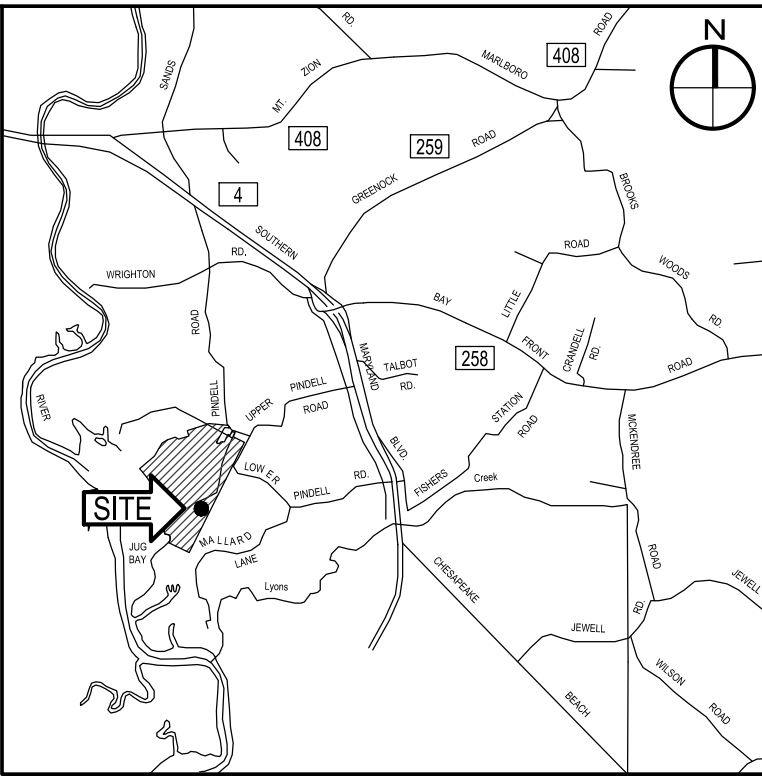


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REVISIONS			
NO.	DESCRIPTION	BY	DATE

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	
SCALE: AS SHOWN	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION		
DRAWN BY: R.S.S.	UNDERGROUND WATER STORAGE TANK		
CHECKED BY: R.W.H.	C403		
SHEET NO. 13 OF 63			
PROJECT NO.: P584501			
CONTRACT NO.: P584500			

BID SET

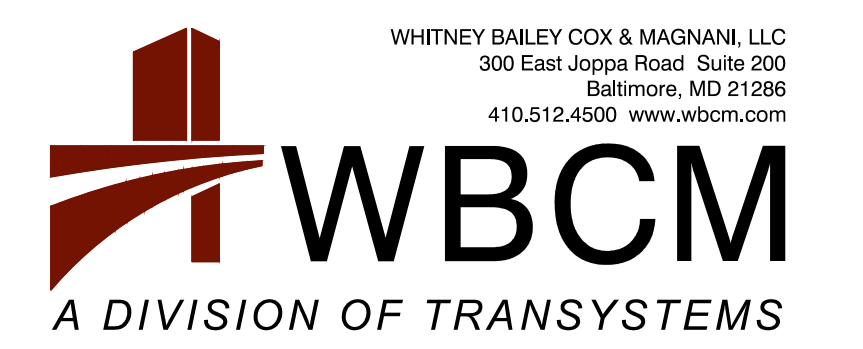
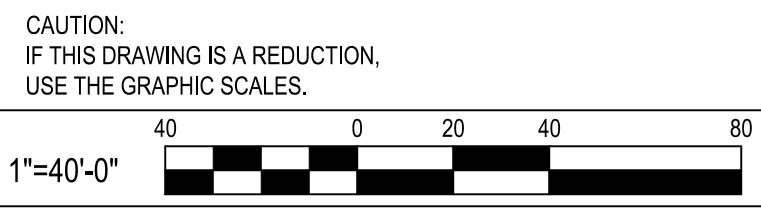


VICINITY MAP
SCALE: 1" = 8,333'

MSD SPEC (MSD) 08/20/11

Whitney, Bailey, Cox & Magnani 300 East Joppa Road, Suite 200 Baltimore, MD 21286 Phone: (410) 512 - 4500 Fax: (410) 324 - 4100 Consulting Engineers		STORM SEWER DESIGN		Job No.	1
PROJECT: Jug Bay Education Center		LOCATION: Pindell Road, Lothian, MD 20711		By	VP
CATEGORY: Storm Drain		Checked		Date	5/8/2023

STRUCT. NO.	CONTRIBUTING AREA						RUNOFF				PIPE					REMARKS				
	FROM	TO	NO.	D A	SA A	C COEF.	CA CA	SCA SCA	DESIGN	Tc	I	Q	D	n	Sf		L	Vf	TIME	Sa
									STORM	CONC.	INTENS	QUANT	DIAM	INGS	SLOPE		LENGTH	VELOC	PIPE	
I-103	I 102	MB#1	0.46	---	0.64	0.292	---	10	5.0	7.00	2.05	15	0.012	0.09	79.0	1.67	0.79	RCP	2.00	
I 102	I 101	A	1.46	1.91	0.16	0.226	0.52	10	5.0	7.00	3.63	15	0.012	0.27	183.0	2.96	1.03	RCP	2.50	
I 101	ES 101	B	0.24	2.15	0.18	0.044	0.56	10	5.0	7.00	3.94	15	0.012	0.32	94.0	3.21	0.49	RCP	0.00	
I 201	ES 201	MB #2	0.47	---	0.52	0.246	---	10	5.0	7.00	1.72	15	0.012	0.06	90.0	1.40	1.07	RCP	0.50	



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REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 40'
CHEIF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHEIF, RIGHT-OF-WAY	SHEET NO. 14 OF 63
		PROJECT NO.: P584501
		CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
STORM DRAIN DRAINAGE AREA MAP

C404

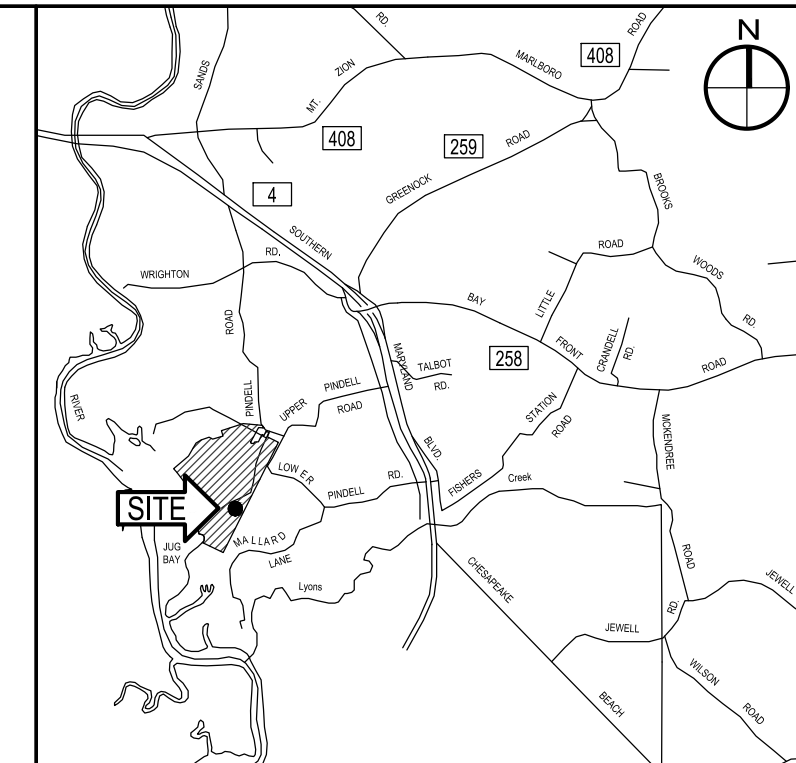
P:\2017\17141806\Drawings\07-Site\17141806-C404-SD DA Map.dwg Nov 07, 2023 - 2:52pm Plot By: remith

STORM_ID	STRU_NAME	MDE BMP CLASS	MDE BMP TYPE	CONSTRUCTION PURPOSE	ON or OFF SITE	LAND USE	DEVICE DRAINAGE AREA (acres)	IMPERVIOUS AREA DRAINING TO DEVICE (Square feet)	IMPERVIOUS ACRES RESTORED (See Note 3)	MD NORTH COORD (NAD83 - FT)	MD EAST COORD (NAD83 - FT)	WQV (ft3) (See Note 5)	Maintenance Responsibility	Comments
	Microbioretention #1	E	M6	NEWD	ON	MMBR	0.46	12,404	N/A	401,020	1,401,505	2,734		
	Microbioretention #2	E	M6	NEWD	ON	MMBR	0.47	10,279	N/A	400,720	1,401,552	2,272		

STORMWATER MANAGEMENT DATA FORM v1.1/2020

Project Table for Each Drainage Area

Permit Number	G02019677
Project Number	P584501
Project Name	Jug Bay Environmental Education Center
StructureAddress	6032 Pindell Road
Structure City	Lothian
State	MD
Structure Zip	20711
Total Drainage Area (Acres)	8.91
RCN - Pre Construction	62
RCN - Post Construction	58
RCN - Woods	
Total Number of BMPs	2
PE Required (see Note 1)	1.5
PE Addressed (see Note 2)	1.5
MD 8-Digit HUC (see Note 4)	2131102
USGS 12-Digit HUC	



VICINITY MAP
SCALE: 1" = 8,333'

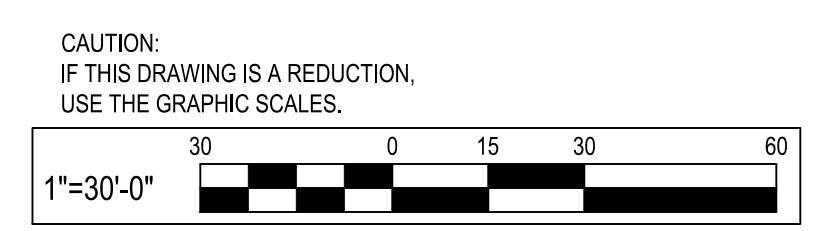
SUMMARY TABLE (FACILITY BOTTOM VS GROUND WATER ELEVATION)

BORING #	STORMWATER MANAGEMENT FACILITY	ELEVATION OF FACILITY BOTTOM	GROUND WATER ELEVATION
SWM #1	MICRO BIORETENTION #1	68.59	-
SWM #3	MICRO BIORETENTION #2	59.59	-



SWM LEGEND

- ESD SWM FACILITY
- DRAINAGE AREA BOUNDARY
- IMPERVIOUS AREA TREATED BY SWM FACILITY
- SWM BORING LOCATION



BID SET

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300 East Joppa Road, Suite 300
Baltimore, MD 21286
410.512.4500 www.wbcm.com

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NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

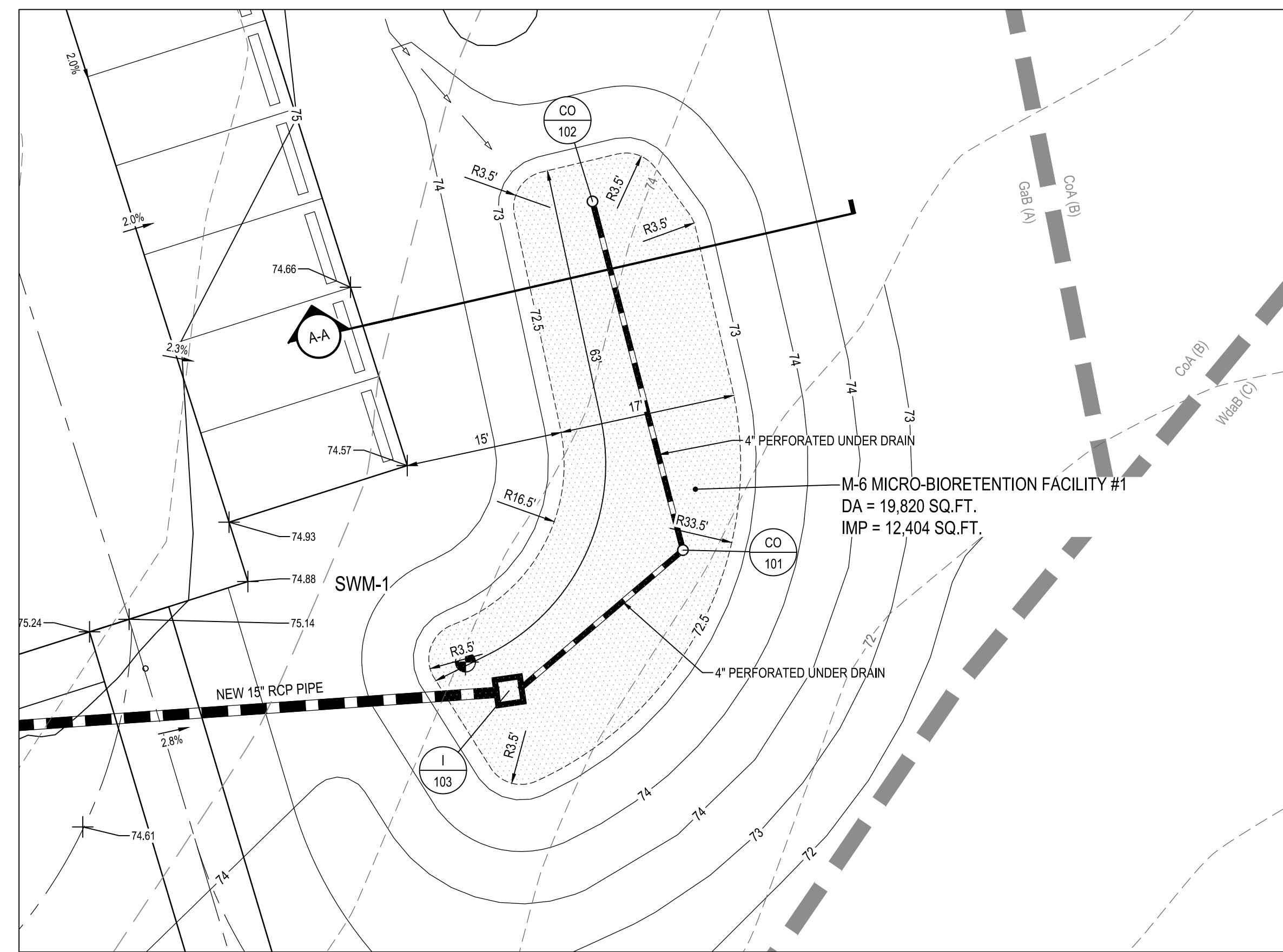
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CHIEF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY	SHEET NO. 15 OF 63
		PROJECT NO.: P584501
		CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
STORMWATER MANAGEMENT PLAN
C501

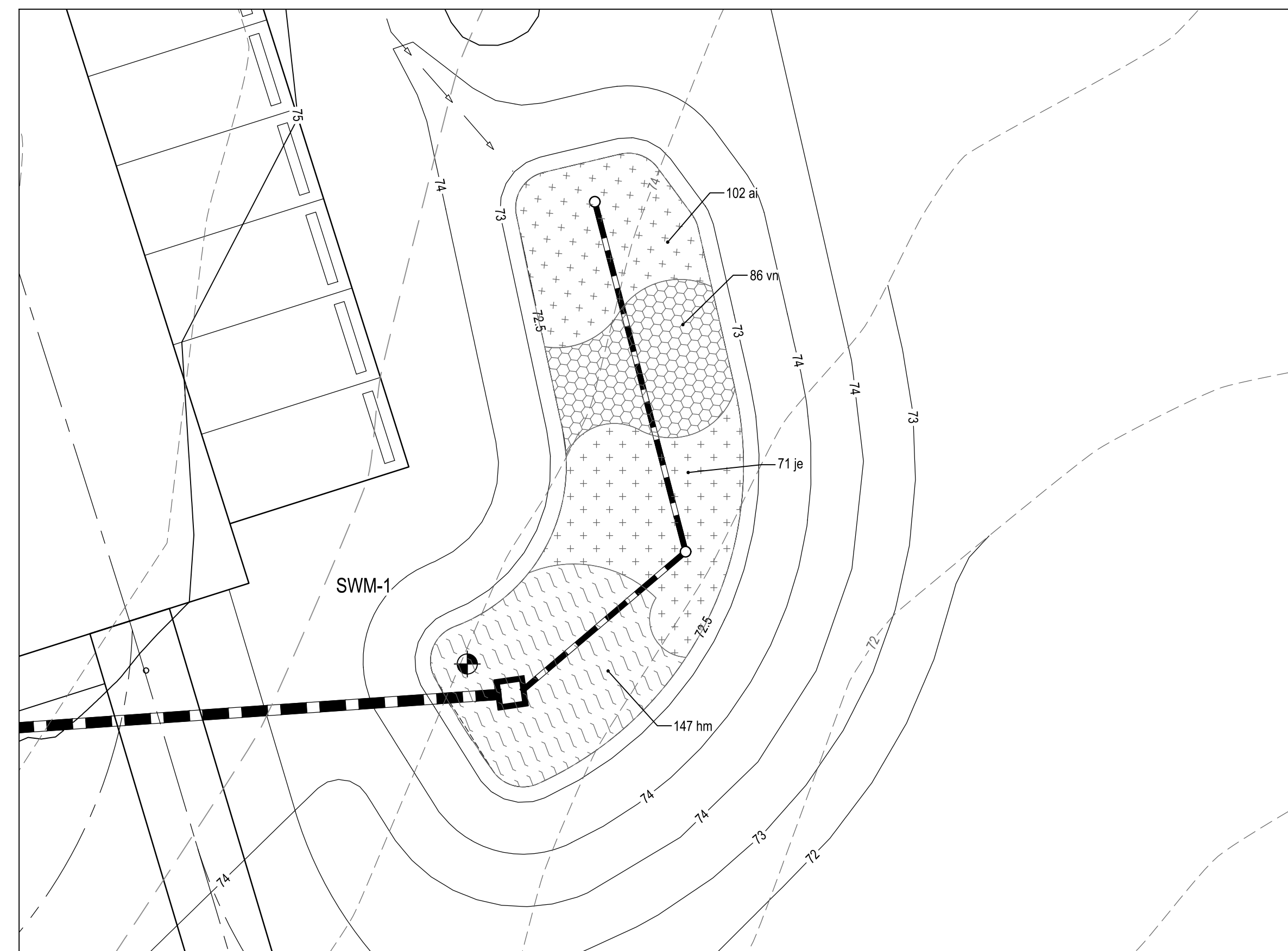
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PROJECT NAME: JUG BAY EDUCATION, RESEARCH AND DISCOVERY FIELD STATION		
DESIGN / AS - BUILT DATA FOR MICRO-BIORETENTION		
* TO BE COMPLETED BY THE CERTIFYING ENGINEER		
TYPE OF FACILITY: M-6, MICRO-BIORETENTION	BMP ID: MICRO-BIORETENTION (M-6) FACILITY #1	
FEATURE	DESIGN	*AS-BUILT
FILTER BED DIMENSIONS (L x W)	61' x 17'	
LEFT SIDE SLOPE	3:1	
RIGHT SIDE SLOPE	3:1	
FILTER BED SURFACE ELEVATION (TOP OF MULCH)	72.50	
10-YEAR FREEBOARD (FT)	0.5'	
OVERFLOW INLET / TOP ELEVATION	I-103 / 73.50	
OUTLET PIPE DIAMETER / TYPE (HDPE, RCP, CMP)	15" / RCP	
OUTLET PIPE INVERT	69.00'	
UNDER DRAIN DIAMETER	4" / 69.00'	
TOP OF EMBANKMENT ELEVATION, Td	74.00'	
TOP OF EMBANKMENT WIDTH	5'	
THICKNESS OF MULCH	3"	
THICKNESS OF FILTER MEDIA SHA BSM	24"	
THICKNESS OF COARSE SAND	4"	
THICKNESS OF PEA GRAVEL	4"	
THICKNESS OF UNDERDRAIN GRAVEL	12"	
PLACEMENT OF GEOTEXTILE	SIDES ONLY	
PLANTINGS	SEE THIS SHEET	
OBSERVATION WELL WITH DEPTH TO FILTER BOTTOM INDICATED ON CAP	OBS #1 (3.92')	
DATE AS-BUILT ACCEPTED BY ANNE ARUNDEL COUNTY:		

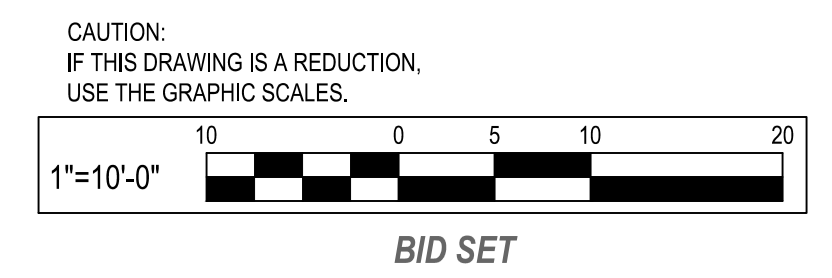
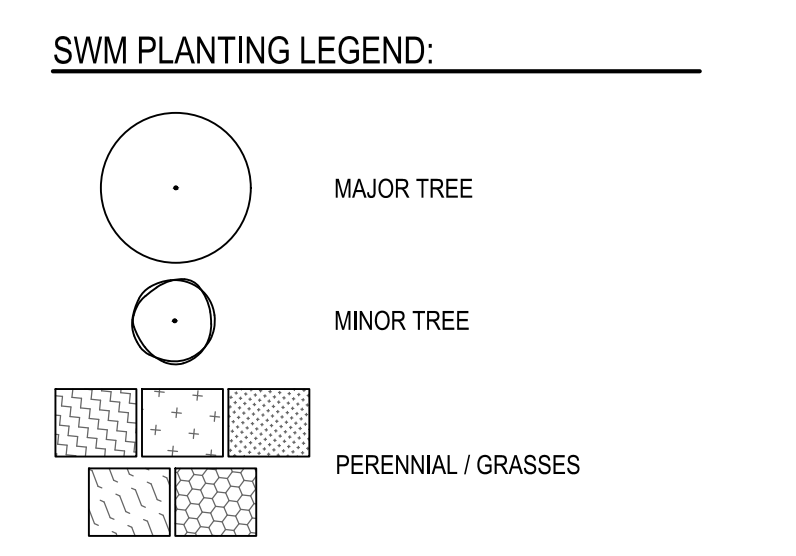
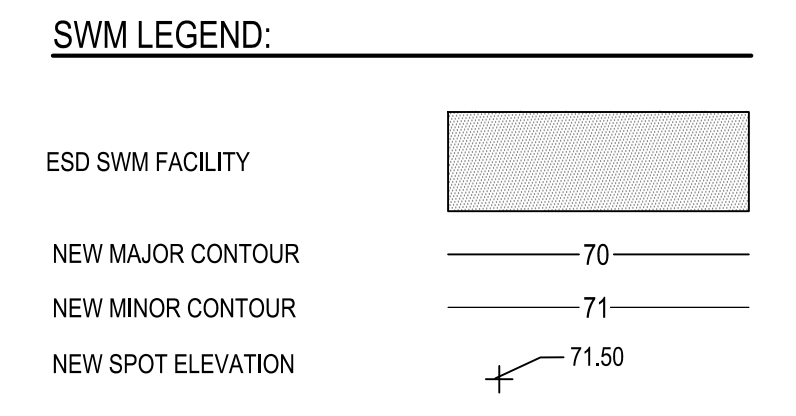
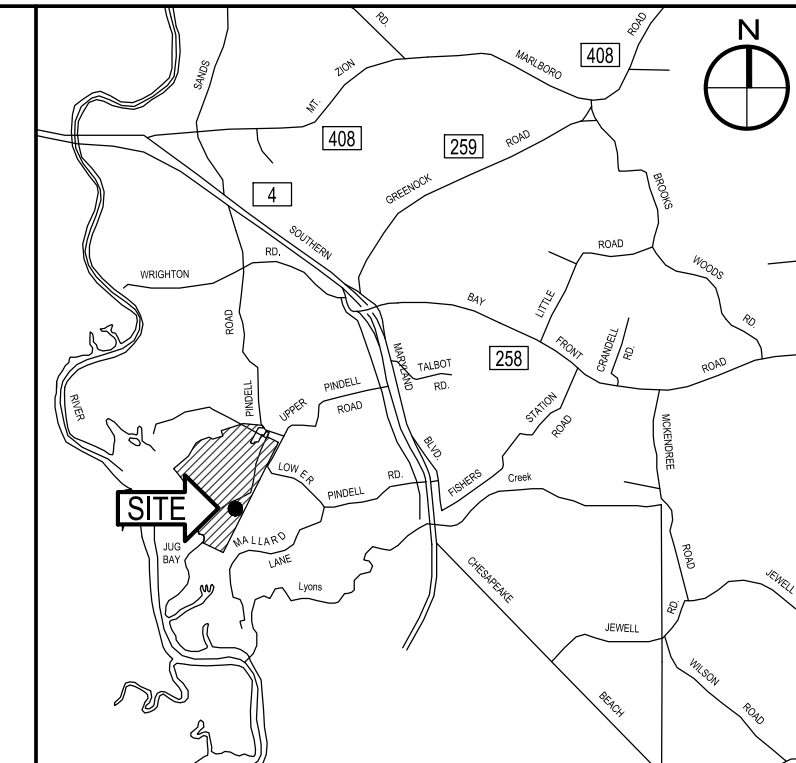
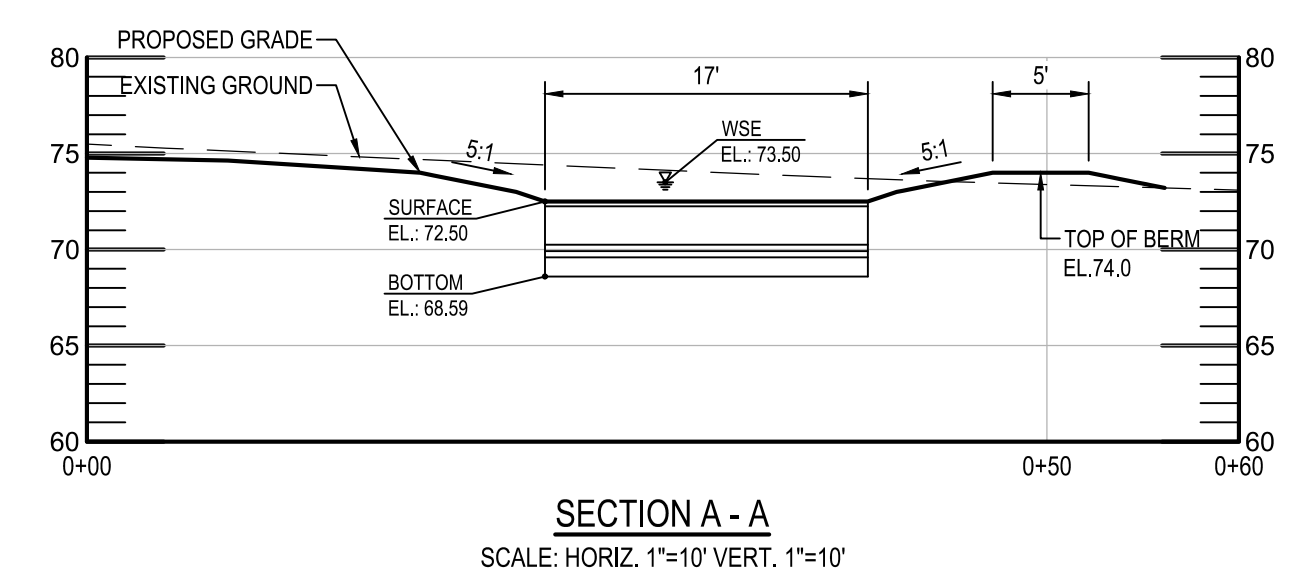
STORMWATER MANAGEMENT PLANT SCHEDULE					
Groundcovers, Perennials and Grasses					
Symbol	Quantity	Botanical Name	Common Name	Size	Note
ai	102	Aesclepias incarnata	Swamp Milkweed	1 Qt.	18" O.C.
hm	147	Hibiscus moscheutos	Rose mallow	1 Qt.	24" O.C.
ip	89	Iris prismatica	Slender Blueflag	1 Qt.	18" O.C.
je	71	Juncus effusus	Soft Rush	1 Qt.	24" O.C.
pa	174	Packera aurea	Golden Ragwort	1 Qt.	12" O.C.
ss	51	Schizachyrium scoparium	Little Bluestem	1 Qt.	18" O.C.
vn	86	Vernonia noveboracensis	New York Ironweed	1 Qt.	18" O.C.



1 MICRO-BIO RETENTION FACILITY #1 PART PLAN
SCALE: 1" = 10'



2 MICRO-BIO RETENTION FACILITY #1 PLANTING PLAN
SCALE: 1" = 10'



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 300
Baltimore, MD 21286
410.512.4500 www.wbcm.com

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REVISIONS			
NO.	DESCRIPTION	BY	DATE

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	

SCALE: 1" = 10'

DRAWN BY: R.S.S.

CHECKED BY: R.W.H.

SHEET NO. 16 OF 63

PROJECT NO.: P584501

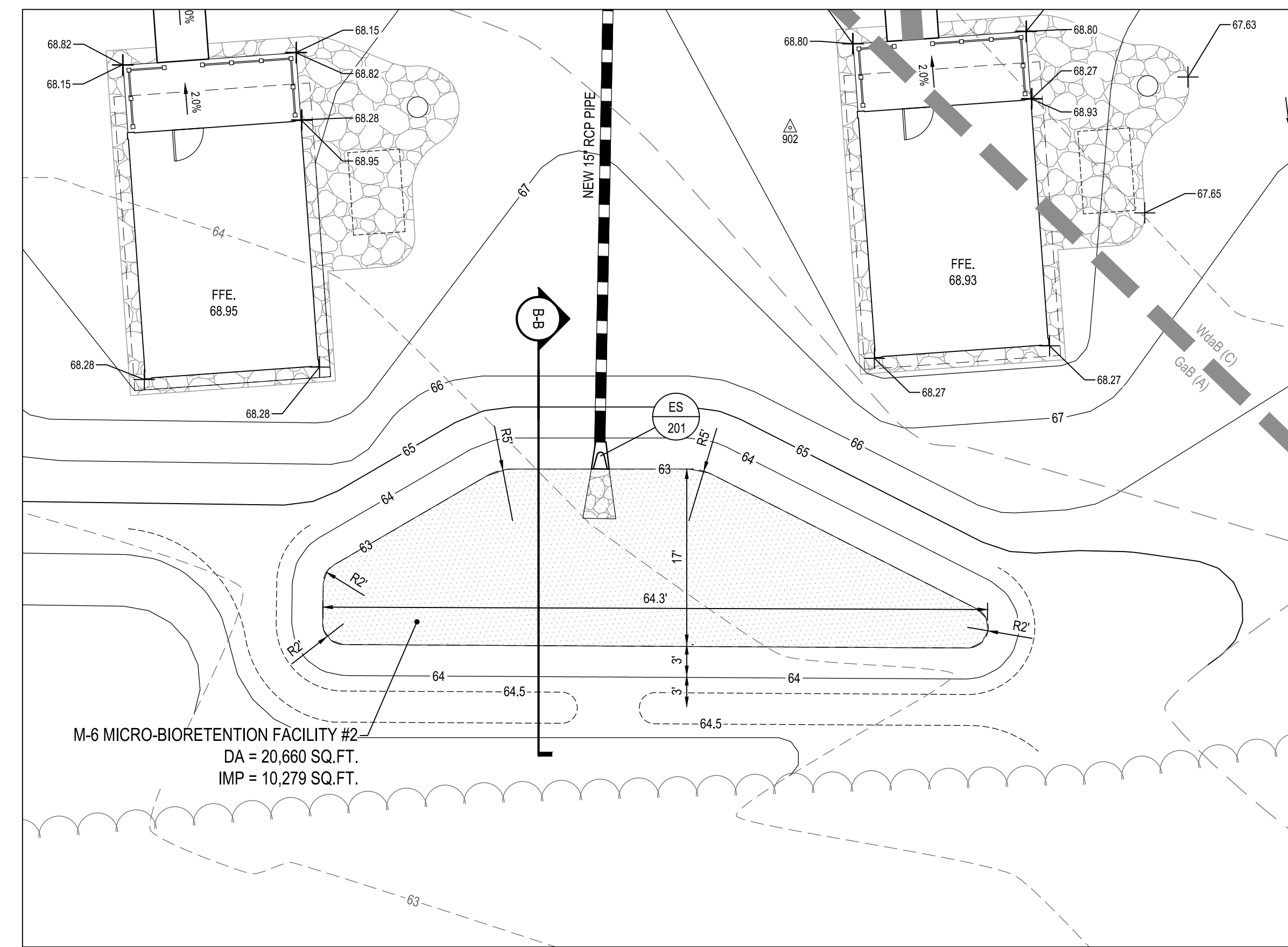
CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH AND DISCOVERY FIELD STATION
STORMWATER MANAGEMENT
PART PLAN
C502

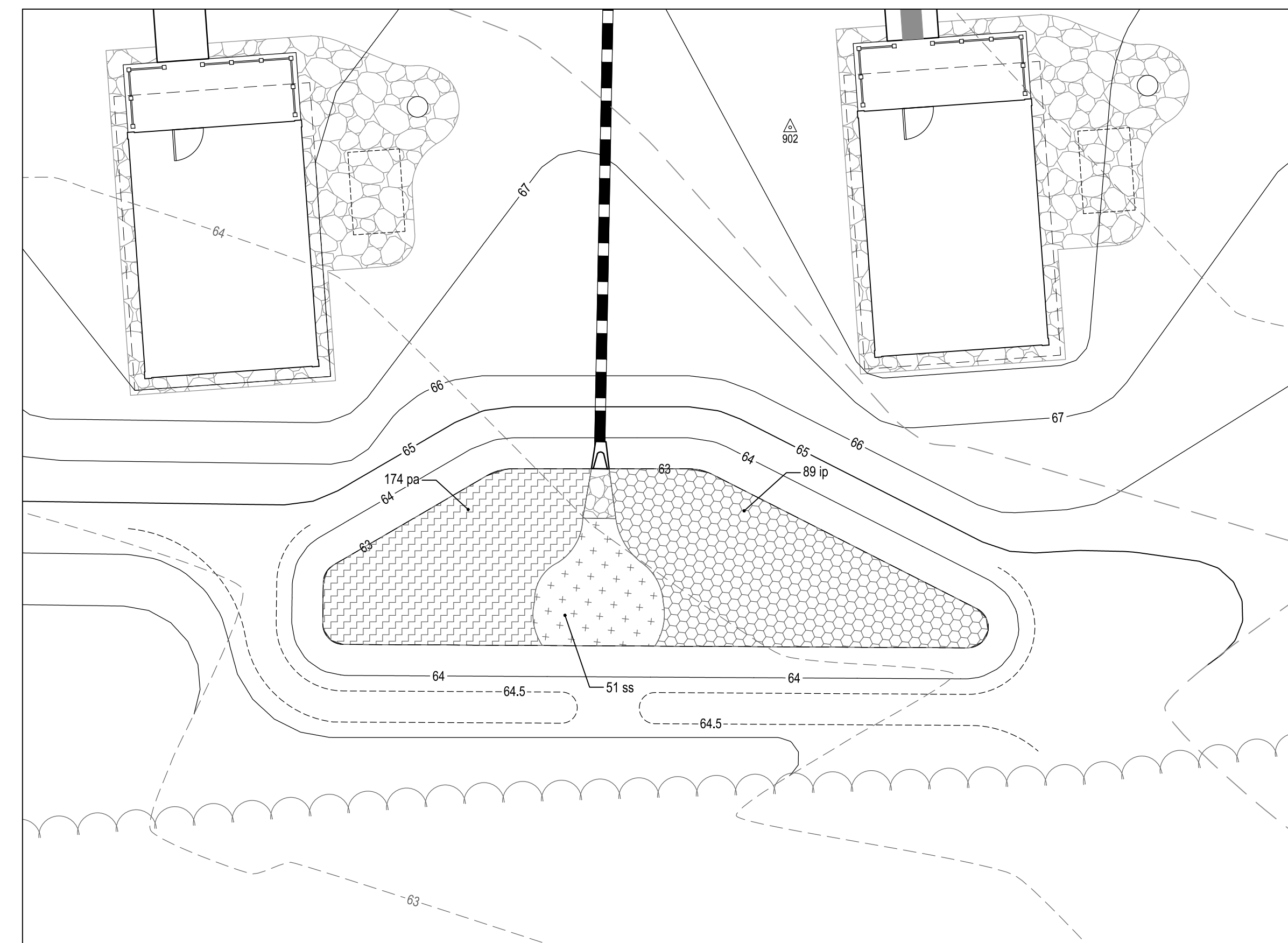
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PROJECT NAME: JUG BAY EDUCATION, RESEARCH AND DISCOVERY FIELD STATION			
DESIGN / AS - BUILT DATA FOR MICRO-BIORETENTION			
* TO BE COMPLETED BY THE CERTIFYING ENGINEER			
TYPE OF FACILITY: M-6, MICRO-BIORETENTION	BMP ID: MICRO-BIORETENTION (M-6) FACILITY #2		
FEATURE	DESIGN	*AS-BUILT	
FILTER BED DIMENSIONS (L x W)	64' x 17'		
LEFT SIDE SLOPE	3:1		
RIGHT SIDE SLOPE	3:1		
FILTER BED SURFACE ELEVATION (TOP OF MULCH)	63.00'		
UNDER DRAIN DIAMETER	N/A		
ESD STORAGE ELEVATION	64.00'		
10-YEAR FREEBOARD (FT)	0.5'		
OVERFLOW WEIR ELEVATION	64.00'		
WEIR DIMENSIONS (L x W)	6' x 3'		
TOP OF EMBANKMENT ELEVATION, Td	64.50'		
TOP OF EMBANKMENT WIDTH	3'		
THICKNESS OF MULCH	3"		
THICKNESS OF FILTER MEDIA SHA BSM	24"		
THICKNESS OF COARSE SAND	4"		
THICKNESS OF PEA GRAVEL	4"		
THICKNESS OF UNDERDRAIN GRAVEL	6"		
PLACEMENT OF GEOTEXTILE	SIDES ONLY		
PLANTINGS	SEE THIS SHEET		
OBSERVATION WELL WITH DEPTH TO FILTER BOTTOM INDICATED ON CAP	OBS #2 (3.42')		
DATE AS-BUILT ACCEPTED BY ANNE ARUNDEL COUNTY:			

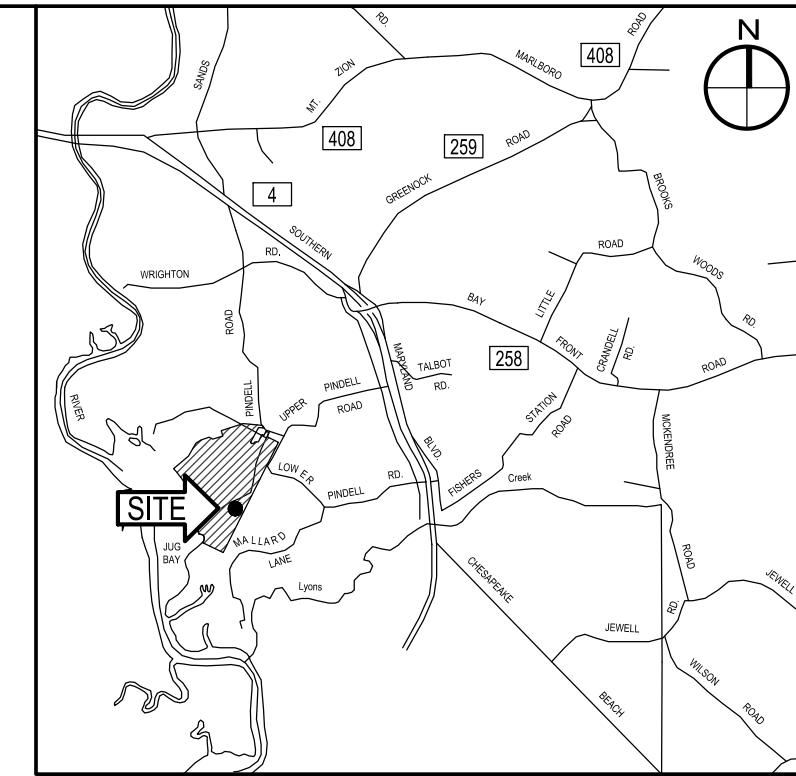
STORMWATER MANAGEMENT PLANT SCHEDULE				
Groundcovers, Perennials and Grasses				
Symbol	Quantity	Botanical Name	Common Name	Note
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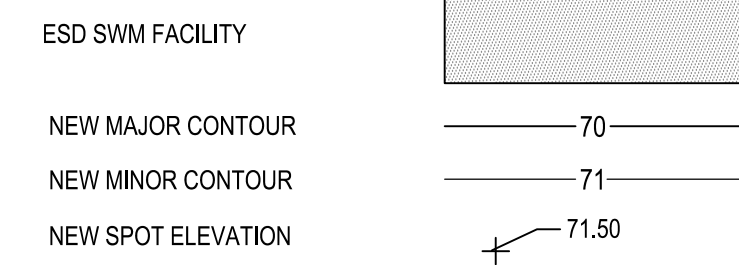
1 MICRO-BIO RETENTION FACILITY #2 PART PLAN
SCALE: 1" = 10'



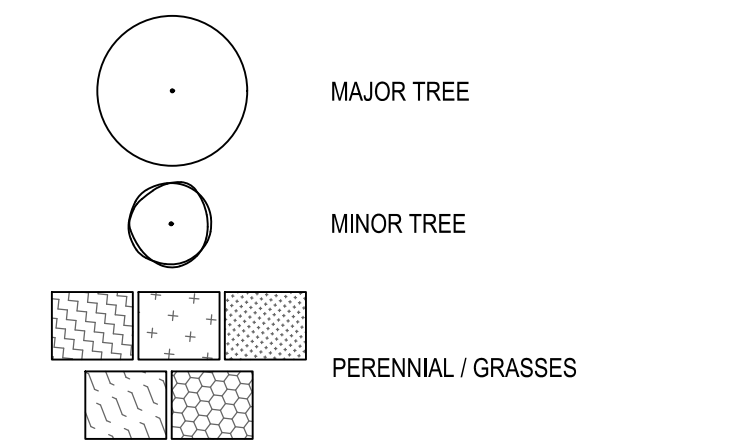
2 MICRO-BIO RETENTION FACILITY #2 PLANTING PLAN
SCALE: 1" = 10'



SWM LEGEND:



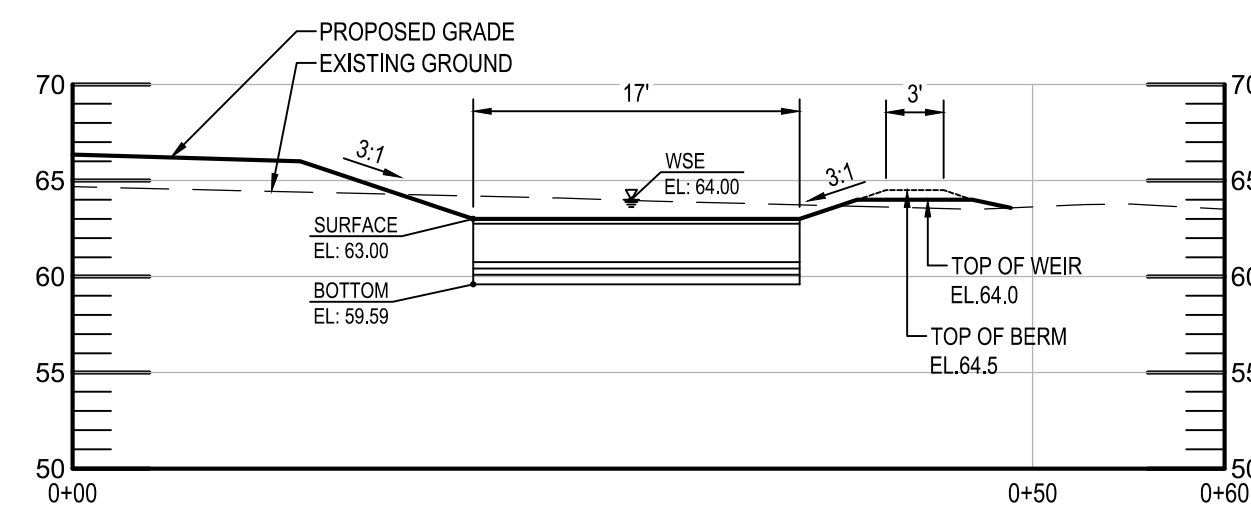
SWM PLANTING LEGEND:



CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.



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Baltimore, MD 21286
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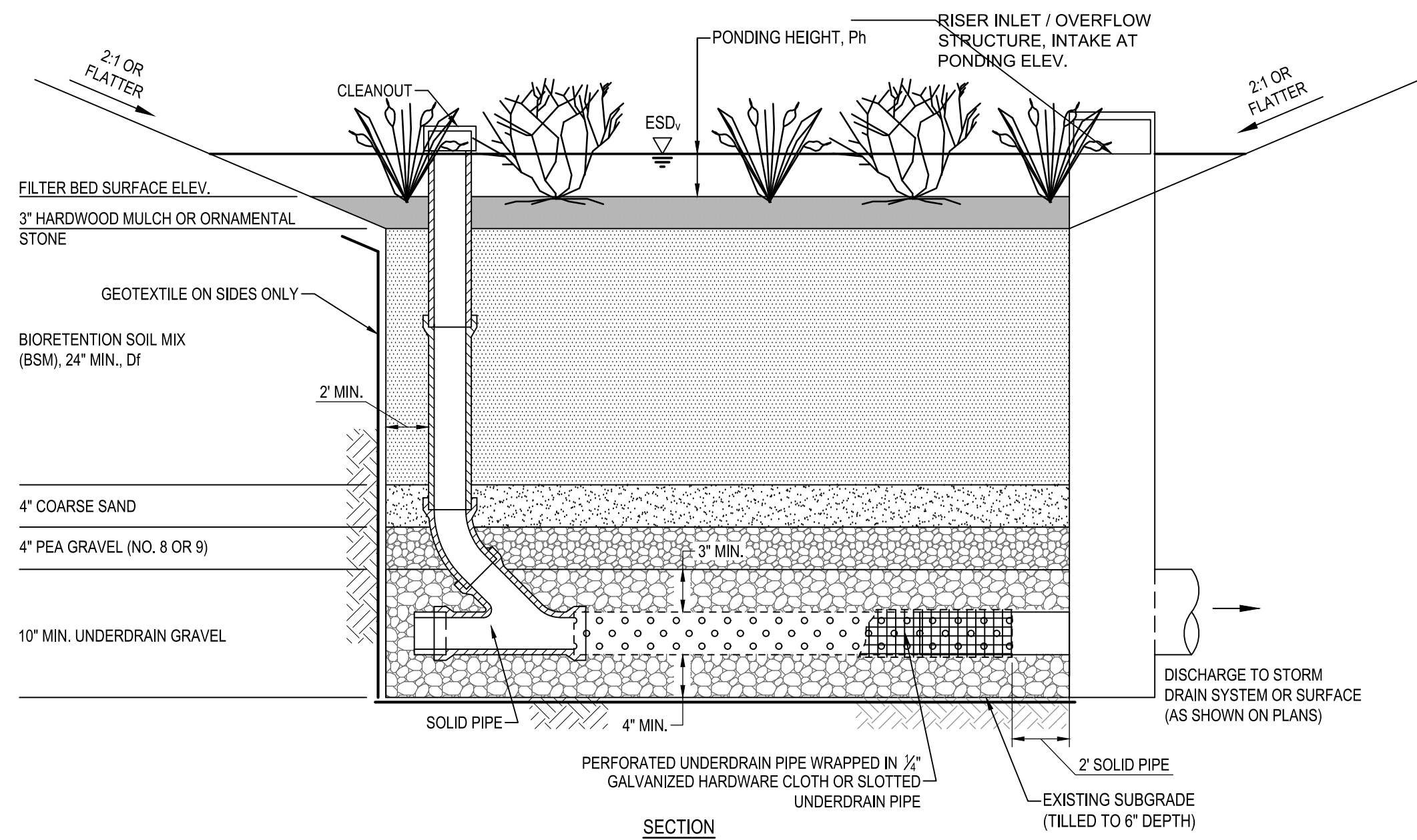
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License # 27734, Expiration Date: 07/12/24

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

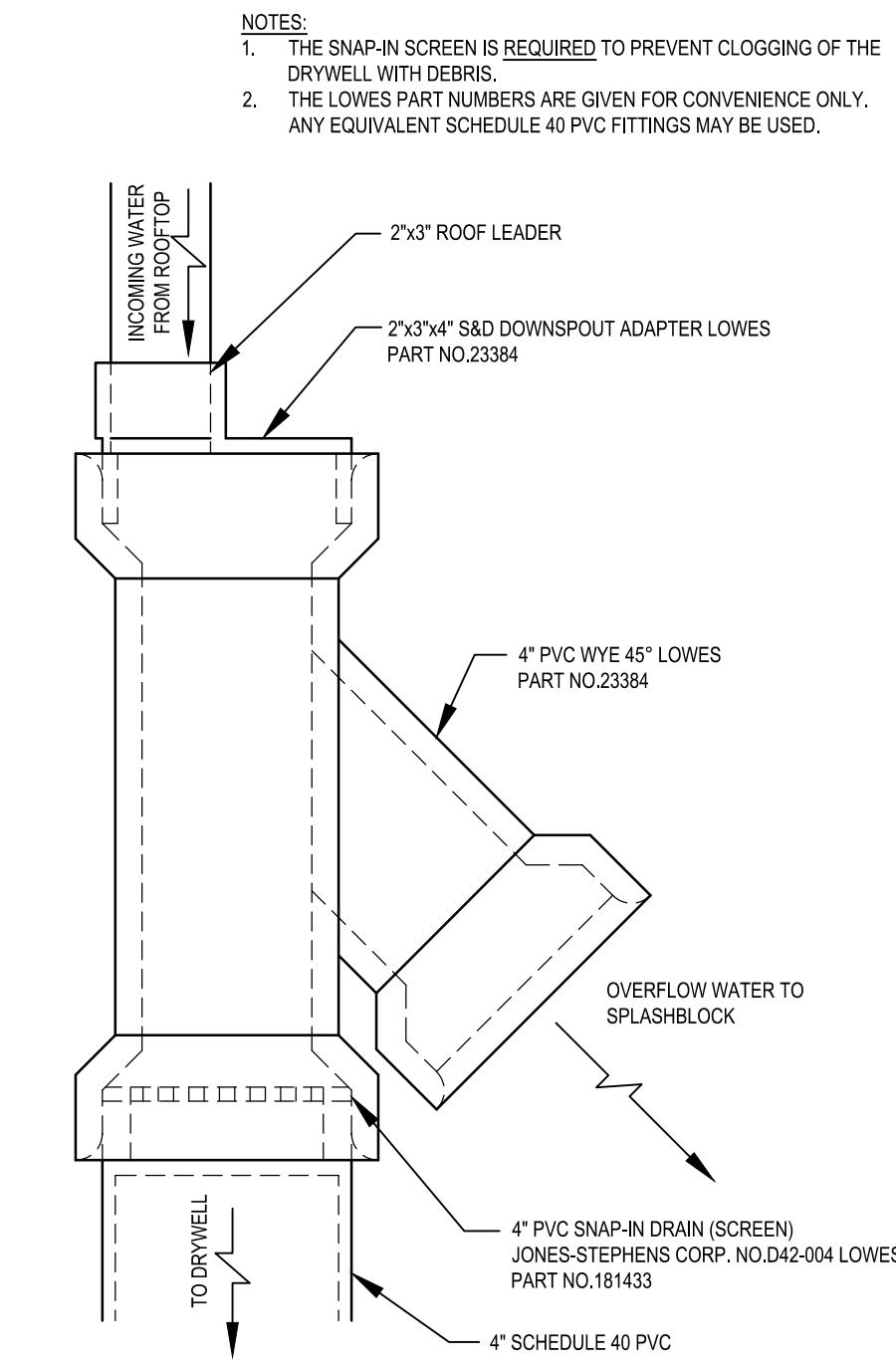
SCALE: 1" = 10'
DRAWN BY: R.S.S.
CHECKED BY: R.W.H.
SHEET NO. 17 OF 63
PROJECT NO.: P584501
CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH AND DISCOVERY FIELD STATION
STORMWATER MANAGEMENT
PART PLAN
C503



- NOTES:
- SEE PLANS FOR OBSERVATION WELL LOCATIONS.
 - DO NOT INSTALL GEOTEXTILE ALONG THE TOP, BOTTOM, OR ANY HORIZONTAL LAYER.

SECTION FOR MICROBIORETENTION WITH RISER
NOT TO SCALE



SECTION SURCHARGE PIPE (DOWNSPOUT)
NOT TO SCALE

SPECIFICATIONS:

- SEE CHART BELOW.
- THE CONTRACTOR SHALL SUBMIT SOIL TEST RESULTS (1 PER 30 CY OF BSM) TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. PERFORM SOIL TESTS FOR BOTH IMPORTED SOIL AND RE-USED / AMENDED TOP SOIL. SOIL TEST AND RESULTS SHALL INCLUDE AT A MINIMUM; PHOSPHORUS, ORGANIC MATTER, SOLUBLE SALTS, AND TEXTURAL ANALYSIS.
- MINIMIZE COMPACTION OF SUBGRADE SOILS IN MICRO BIORETENTION AREAS. CONTRACTOR SHALL TILL THE SUBGRADE SOILS TO A DEPTH OF 6\"/>

MATERIALS SPECIFICATIONS FOR BIORETENTION

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE PLAN SHEET	N/A	PLANTINGS ARE SITE SPECIFIC
BSM	SHA BIORETENTION SOIL MIX (BSM) SECTION 920.01.05 ORGANIC CONTENT MIN. 5% BY DRY WEIGHT (ASTM D 2974)	N/A	MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2008 INCLUDING AND ADDENDA THERETO. COPY TO BE KEPT ON-SITE
MULCH	SHREDDED HARDWOOD	AGED 6 MONTHS, MINIMUM, NO PINE OR WOOD CHIPS	
PEA GRAVEL	ASTM-D-448	NO.8 OR NO.9 (1/8\"/>	

MAINTENANCE SCHEDULE:

AFTER CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE WORK, INSPECTION AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF ANNE ARUNDEL COUNTY.

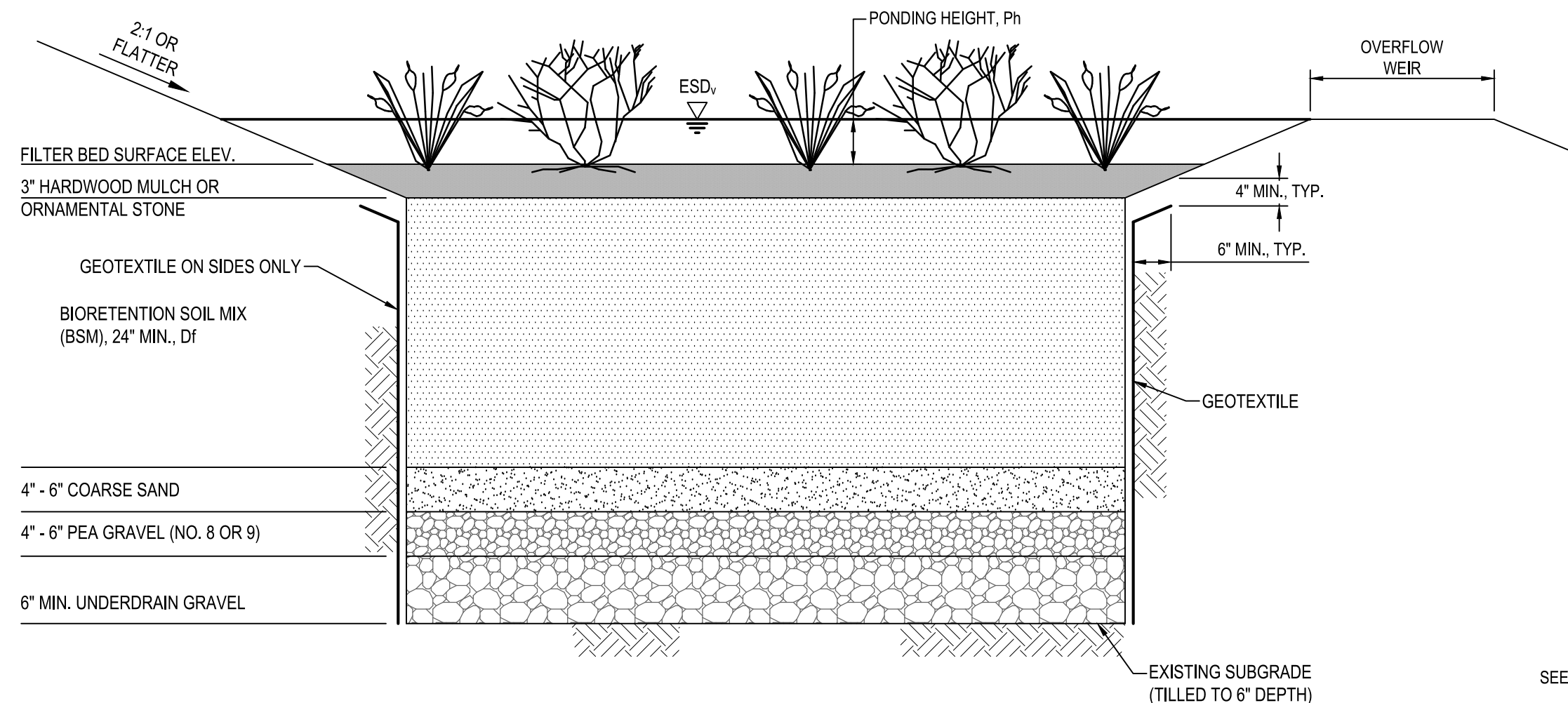
STORMWATER MAINTENANCE SCHEDULE BIORETENTION

INSPECTION ITEM	FREQUENCY OF INSPECTION	INSPECTION REQUIREMENTS	REMEDIAL ACTION
BIORETENTION BASIN	SEASONALLY AND AFTER A MAJOR STORM		
DEWATERING	SEASONALLY AND AFTER A MAJOR STORM	FACILITY MUST DEWATER WITHIN 48 HOURS OF RAINFALL. NOTICEABLE COORS, STAINED WATER ON THE FILTER SURFACE OR AT THE OUTLET, OR THE PRESENCE OF ALGAE OR AQUATIC VEGETATION ARE INDICATORS OF ANAEROBIC CONDITIONS, AND INADEQUATE DEWATERING OF THE FACILITY.	THE TOP THREE INCHES OF SOIL SHOULD BE REMOVED AND REPLACED WITH SOIL MATERIAL AS PER PLAN SPECIFICATIONS. FOLLOW UP INSPECTIONS MUST CONFIRM ADEQUATE DEWATERING. IF THE FACILITY DOES NOT FUNCTION AS INTENDED AFTER THE ABOVE ACTION OR DRAWDOWN EXCEEDS 72 HOURS, ALL MEDIA AND UNDERDRAIN SYSTEM NEED TO BE REMOVED AND REPLACED.
MULCH LAYER	SEASONALLY AND AFTER A MAJOR STORM	CHECK MULCH FOR ADEQUATE COVER, SEDIMENT ACCUMULATION, OR DISCOLORATION.	REMOVE AND REPLACE OLD MULCH AND EXCESS SEDIMENTS. PROVIDE ADEQUATE MULCH COVER ACCORDING TO APPROVED DESIGN.
ORNAMENTAL STONE	SEASONALLY AND AFTER A MAJOR STORM	CHECK STONE FOR ADEQUATE COVER, SEDIMENT ACCUMULATION, OR DISCOLORATION.	REMOVE AND REPLACE OLD STONE AND EXCESS SEDIMENTS. PROVIDE ADEQUATE STONE COVER ACCORDING TO APPROVED DESIGN.
VEGETATIVE SURFACES	MONTHLY		
PLANT COMPOSITION AND HEALTH	MONTHLY	COMPARE PLANT COMPOSITION WITH APPROVED PLANS. CHECK FOR INVASIVE SPECIES OR WEEDS. CHECK FOR DEAD OR DYING VEGETATION.	REMOVE AND REPLACE PLANTS IN ACCORDANCE WITH PLAN SPECIFICATIONS.
VEGETATIVE COVER AND EROSION	MONTHLY	CHECK FOR EVIDENCE OF EROSION, RUNOFF CHANNELING, OR BARE SPOTS.	RE-SEED OR RE-PLANT IN ACCORDANCE WITH APPROVED LANDSCAPING PLANS. RE-GRADING MAY BE REQUIRED WHEN CONCENTRATED FLOW CAUSES RILLS OR GULLYING THROUGH THE FACILITY.
DEBRIS AND TRASH CLEANOUT	MONTHLY	CHECK THAT THE FACILITY IS CLEAN OF TRASH AND DEBRIS. INLETS, OUTLETS, AND CONTRIBUTING AREAS AROUND THE FACILITY MUST BE CHECKED.	TRASH AND DEBRIS MUST BE DISPOSED OF IN AN ACCEPTABLE MANNER ACCORDING TO CURRENT REGULATIONS.
STRUCTURAL COMPONENTS	ANNUALLY	CHECK FOR EVIDENCE OF STRUCTURAL DETERIORATION, SPALLING, OR CRACKING. INLET AND OUTLET STRUCTURES MUST BE IN GOOD CONDITION.	REPAIR TO GOOD CONDITION ACCORDING TO SPECIFICATIONS ON THE APPROVED PLANS.
OUTLETS	SEASONALLY AND AFTER A MAJOR STORM	CHECK FOR EVIDENCE OF EROSION, RILLS, OR GULLYING. RIPRAP OUTLET MUST BE MAINTAINED IN GOOD FUNCTIONAL CONDITION.	STABILIZE ALL ERODED AREAS AND GRADE TO PROVIDE STABLE CONVEYANCE. REPAIR ACCORDING TO APPROVED PLAN.
GRASS CHANNEL CONVEYANCE SYSTEMS	SEASONALLY AND AFTER A MAJOR STORM	CHECK FOR EROSION, FLOW BLOCKAGES, AND STABLE CONVEYANCE.	STABILIZE AND GRADE ACCORDING TO APPROVED PLAN.
OVERALL FUNCTION OF THE FACILITY	ANNUALLY	CHECK THAT ANY FLOW SPLITTERS ARE FUNCTIONING AS DESIGNED AND THAT BYPASS IS OPERATING AS DESIGNED.	REPAIRS MUST BE IN ACCORDANCE WITH APPROVED PLANS.

* IF FIELD CONDITIONS REQUIRE A MODIFICATION TO THE ORIGINAL APPROVAL IN ORDER TO ACHIEVE THE INTENDED DESIGN FUNCTION, CONTACT INSPECTOR FOR REVIEW AND APPROVAL OF PROPOSED MODIFICATIONS.

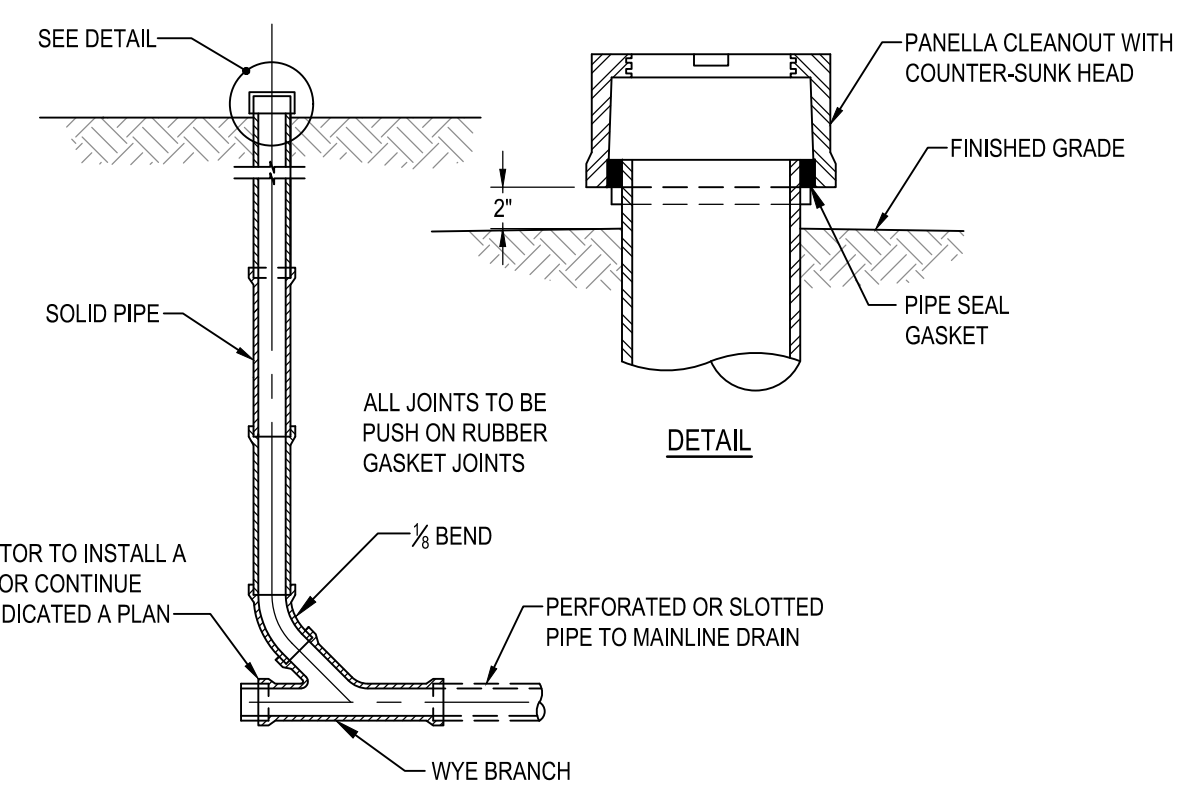
INSPECTION:

- REGULAR INSPECTIONS SHALL BE MADE DURING THE FOLLOWING STAGES OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER 48 HOURS PRIOR TO REQUIRED INSPECTION.
- DURING EXCAVATION TO SUBGRADE.
 - DURING PLACEMENT OF GEOTEXTILE.
 - DURING PLACEMENT AND BACKFILL OF UNDERDRAIN PIPE AND GRAVEL.
 - DURING PLACEMENT OF BACKFILL AND BSM SOIL.
 - DURING PLACEMENT OF MULCH.
 - DURING PLACEMENT OF PLANTS.

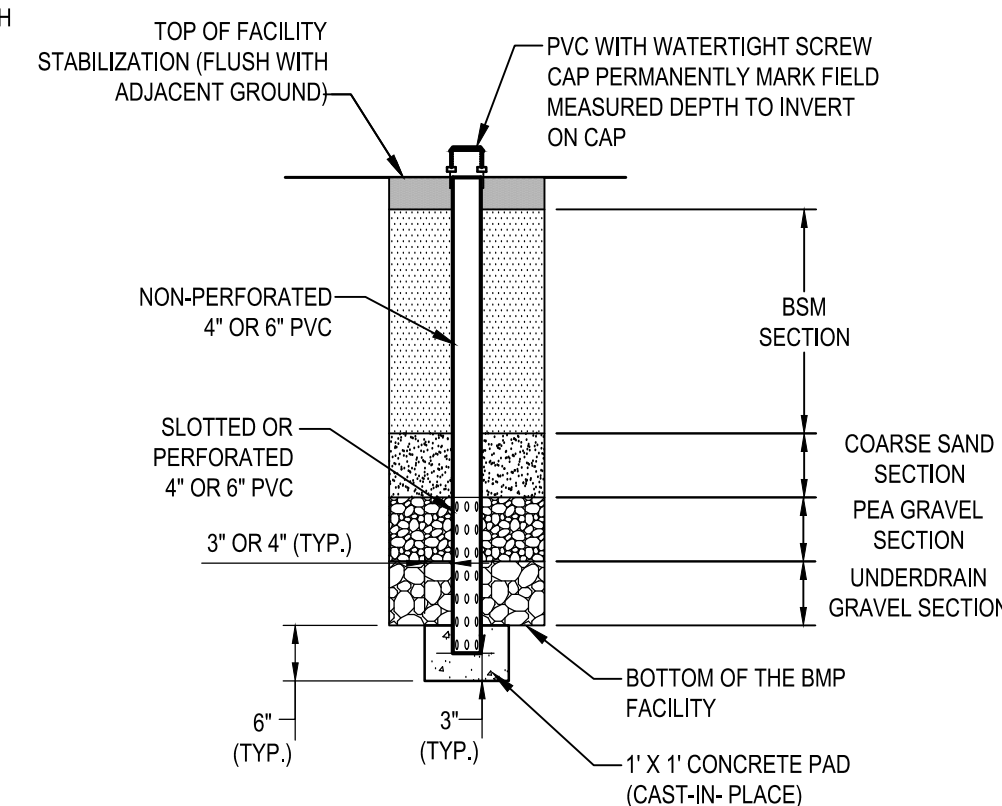


- NOTES:
- A MINIMUM OF ONE OBSERVATION WELL MUST BE PROVIDED FOR EVERY 1000SF OF FILTER SURFACE AREA.
 - DO NOT INSTALL GEOTEXTILE ALONG THE TOP, BOTTOM, OR ANY HORIZONTAL LAYER.
 - DISCHARGE SHALL BE TO A STABLE, NON-EROSIVE OUTFALL.
 - UNDERDRAIN PIPE IS OPTIONAL IN HYDRAULIC SOIL GROUP A OR B. SEE PLAN.

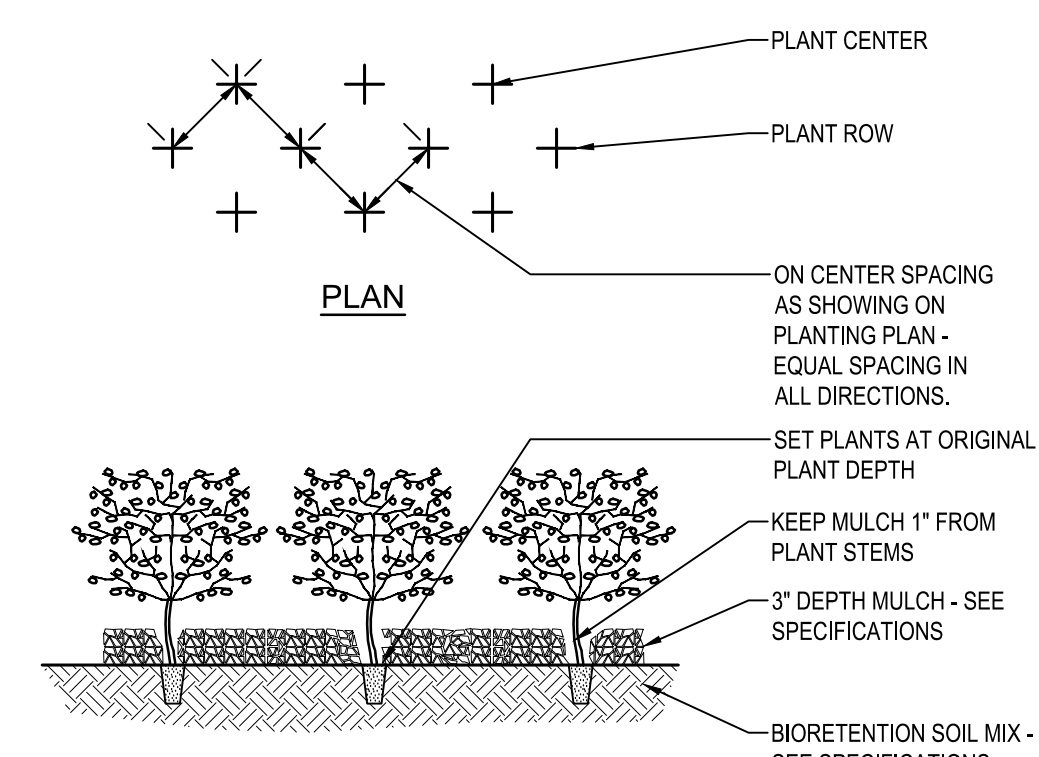
SECTION FOR MICRO-BIORETENTION WITH WEIR SPILLWAY
NOT TO SCALE



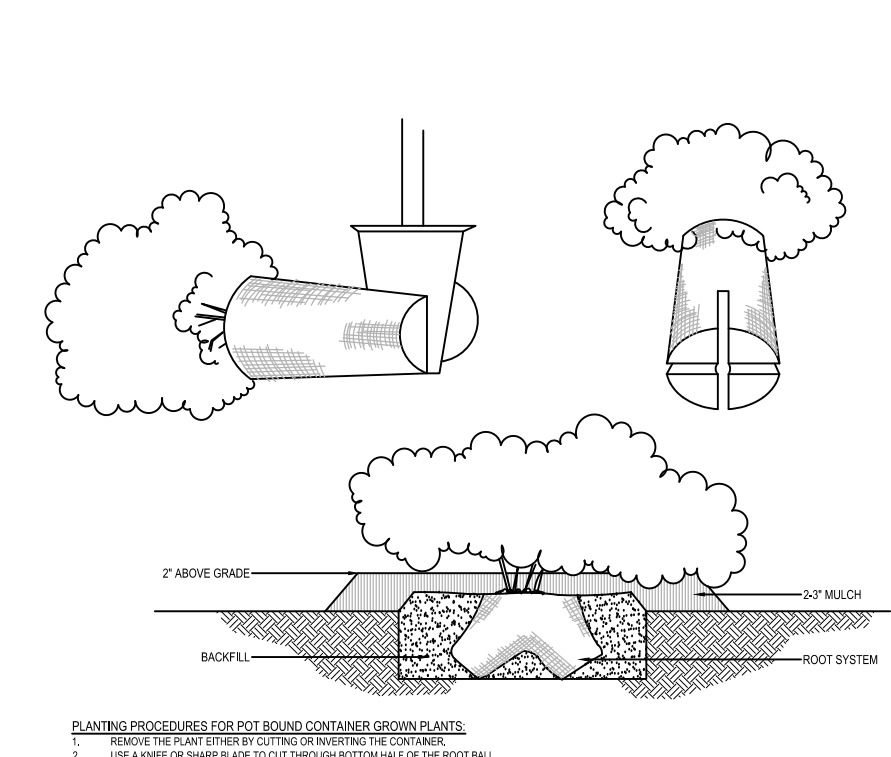
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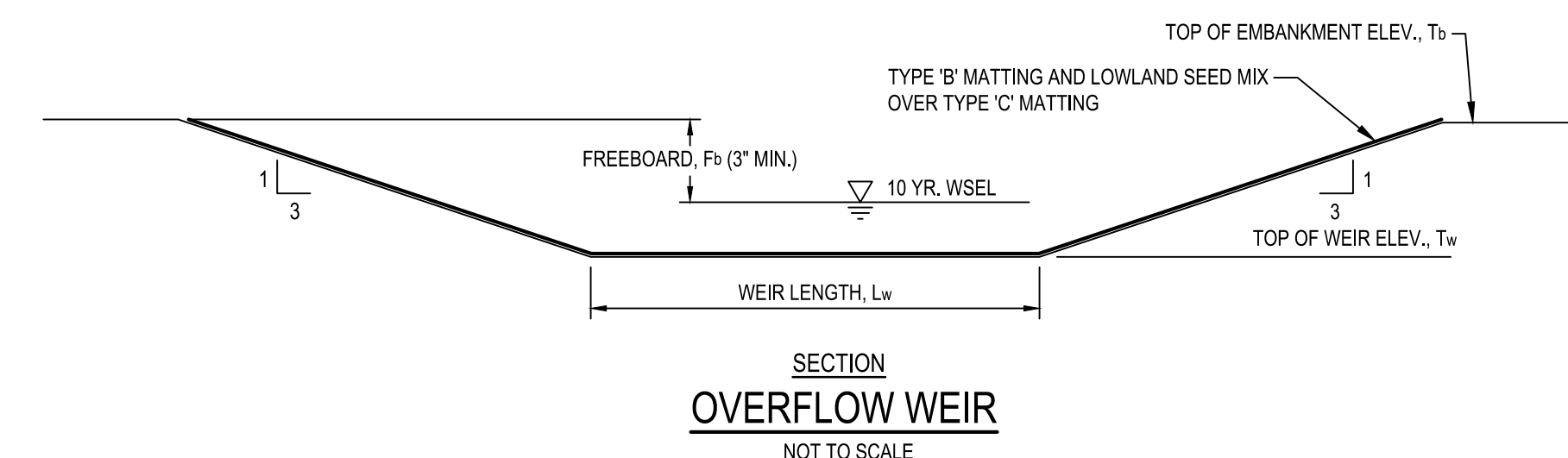
SECTION OBSERVATION WELL
NOT TO SCALE



SECTION PERENNIAL / GROUND COVER
NOT TO SCALE

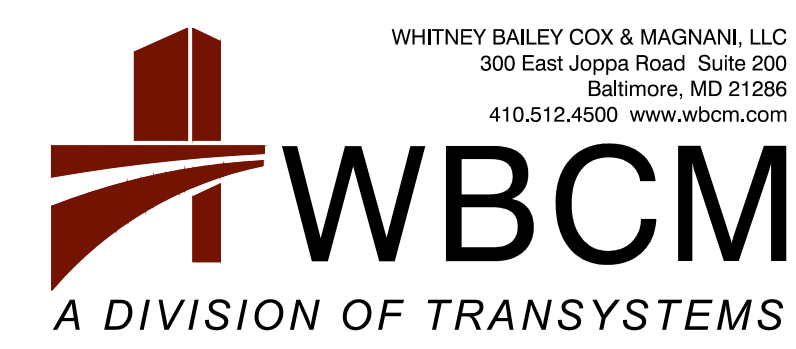


SECTION POT BOUND DETAIL
NOT TO SCALE



SECTION OVERFLOW WEIR
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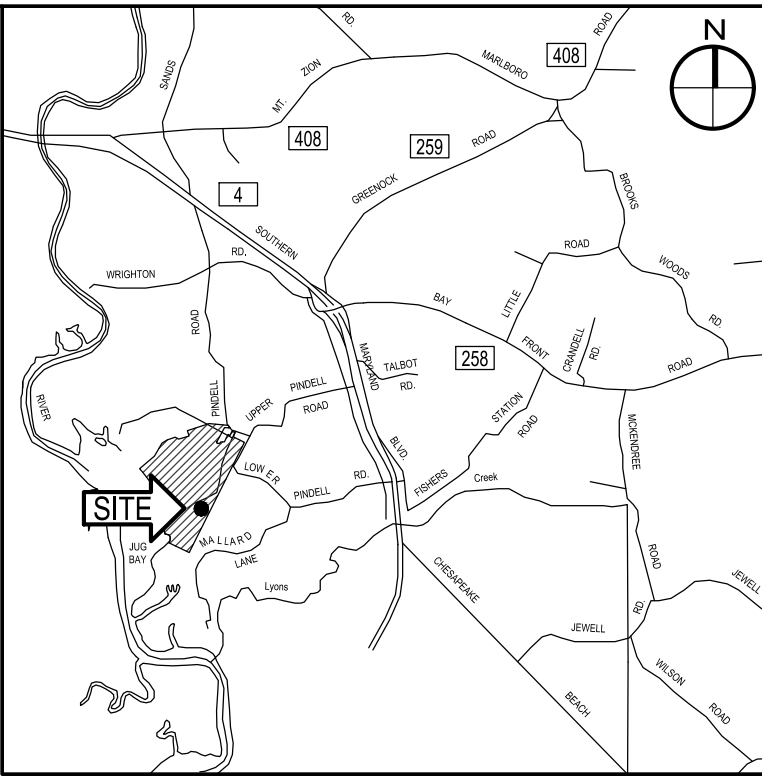
REVISIONS

NO.	DESCRIPTION	BY	DATE

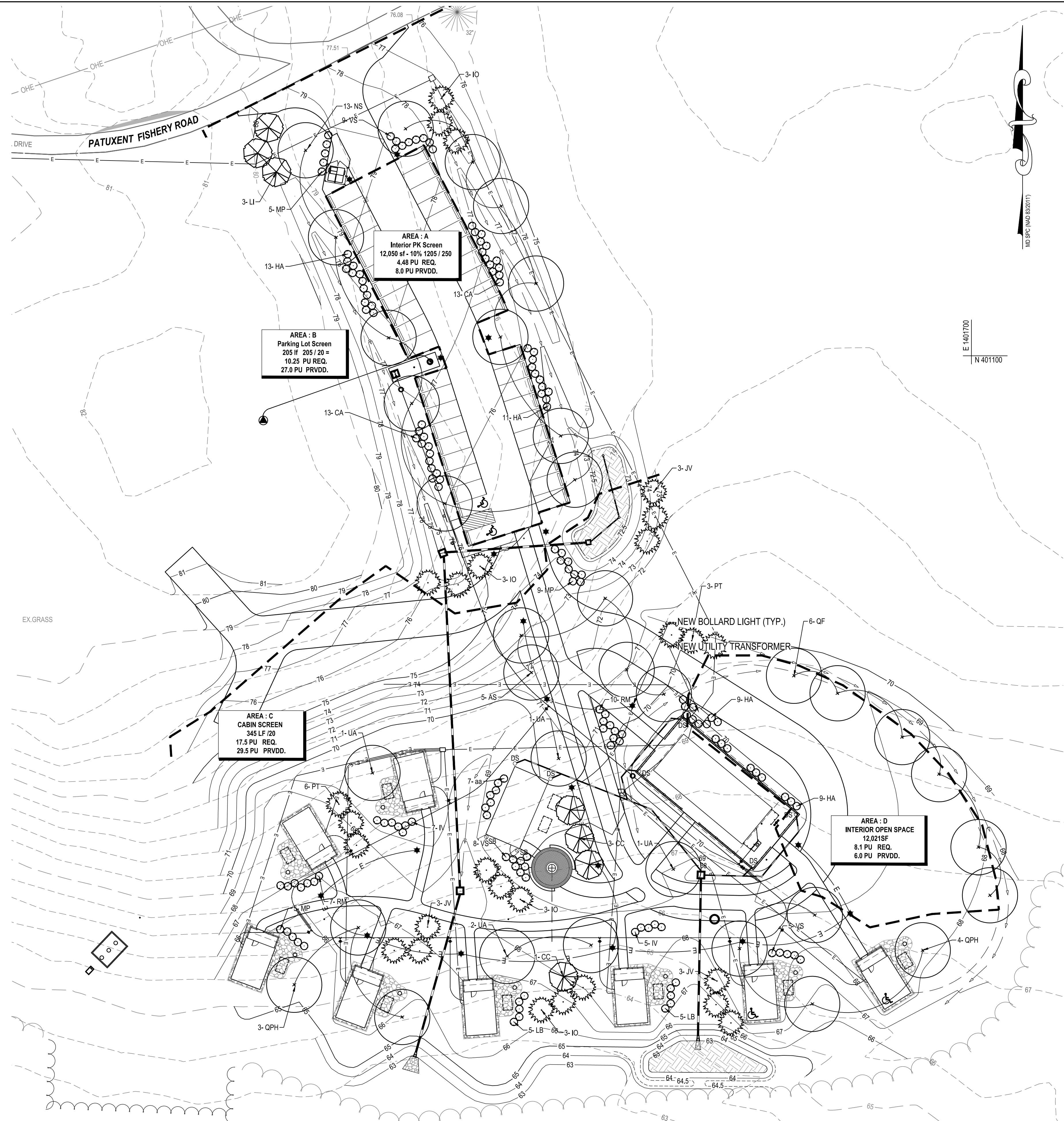
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS SHOWN
CHEIF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHEIF, RIGHT-OF-WAY	SHEET NO. 18 OF 63
		PROJECT NO.: P584501
		CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
STORMWATER MANAGEMENT
NOTES & DETAILS
C504



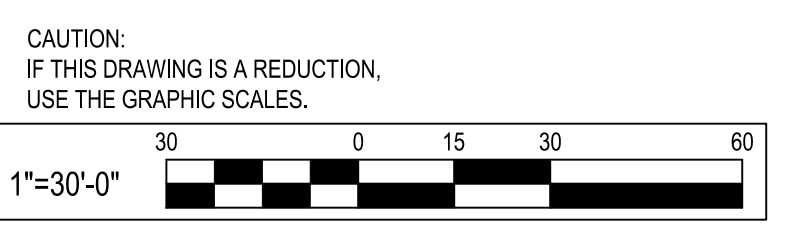
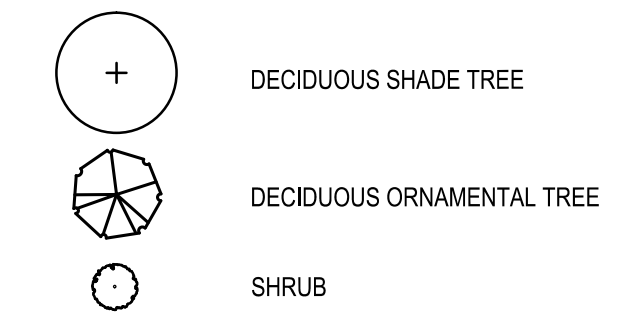
VICINITY MAP
SCALE: 1" = 8,333'



Qty.	SYM.	Botanical Name	Common Name	Size (Min.)	Root	Remarks
PLANT SCHEDULE						
Major Deciduous Trees						
5	AS	Acer saccharum 'Legacy'	Sugar Maple Legacy	2.5" Cal.	B&B	As Shown
14	NS	Nyssa sylvatica 'Wildfire'	Black Tupelo	2.5" Cal.	B&B	As Shown
6	QF	Quercus falcata	Southern Red Oak	2.5" Cal.	B&B	As Shown
7	QPH	Quercus phellos	Willow Oak	2.5" Cal.	B&B	As Shown
5	UA	Ulmus americana 'Delaware'	Delaware Americana Elm	2.5" Cal.	B&B	As Shown
37		Total				
Minor Deciduous Trees						
4	CC	Cercis canadensis	Eastern Redbud	2" Cal.	B&B	Multistem
3	LI	Lagerstroemia indica	Natchez	2" Cal.	B&B	As Shown
7		Total				
Evergreen Trees						
12	IO	Ilex opaca 'Jersey Princess'	American Holly	8-10' Hgt.	B&B	As Shown
9	JV	Juniperus virginiana 'emerald Sentinel'	Eastern Red Cedar	10-12' Hgt.	B&B	As Shown
6	PT	Pinus taeda	Loblolly Pine	6-7' Hgt.	B&B	As Shown
27		Total				
Shrubs						
7	aa	Aronia arbutifolia	Red Chokeberry	#7	Cont.	4' O.C.
26	CA	Clethra alnifolia 'Hummingbird'	Summersweet	#3	Cont.	3' O.C.
32	HA	Hydrangea aborscens 'Annabelle'	Smooth Hydrangea	#5	Cont.	5' O.C.
10	IV	Ilex verticillata	Winterberry Holly	#5	Cont.	6' O.C.
2	IV	Ilex verticillata 'Southern Gentleman'	Winterberry Holly	#5	Cont.	6' O.C. 1 male per 7
22	VS	Itsea virginica 'Henry's Garnet'	Virginia Sweetspire	#3	Cont.	4' O.C.
10	LB	Lindera benzoin	Spicebush	#5	Cont.	4' O.C.
19	MP	Myrica pensylvanica	Northern Bayberry	#5	Cont.	5' O.C.
17	RM	Rhododendron maximum	Rosebay Rhododendron	3-4' Hgt.	Cont.	5' O.C.
145		Total				

Key	Condition	Required Planting Units	Proposed Planting Units
A INTERIOR PARKING LOT	Class A	10% INTERIOR TO BE LANDSCAPED	2 Major Trees (1:1) + 6 Shrubs = 2 PU
	Parking lot A	1 PU / 250 SF 12,050 X 10% = 1205 SF 1205/250 = 4.48 PU REQ.	18 Shrubs = 3:1 = 6.0PU
		Total Required = 4.48 PU	Total PU = 8.0
B PARKING LOT SCREEN	Class A	1/20 LF	12 Major Trees (1:1) + 36 Shrubs = 12 PU
	PARKING LOT PERIMETER SCREENING	205 LF / 20 = 10.25 PU Total Required = 10.25 PU	6 Evergreen Trees (3:1) = 2 PU 3 Minor Trees + 7.5 shrubs = (2:1) 1.5 PU Total PU = 15.5
C Cabins and Camping Area	Class A	1 PU / 20 ft.	17 Major Trees (1:1) + 51 Shrubs = 17 PU
		345 LF / 20 = 17.25 PU Total Required = 17.25 PU	4 Minor Deciduous Trees + 10 Shrubs = 2.0 PU 21 Evergreen (3:1) = 7.0 PU Total PU = 26.0
D OPEN SPACE INTERIOR AREAS	Class A	1 Per 1500 SF	6 Major Tree 18 Shrubs = 6.0 PU
	INTERIOR PLANTINGS	12021 SF / 1500 = 8.01 PU Total Required = 8.1 PU	Total PU = 6.0 PU
		Total Required = 40.08	Total Provided = 55.5

PLANTING LEGEND



BID SET

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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 # 27734, Expiration Date: 07/12/24

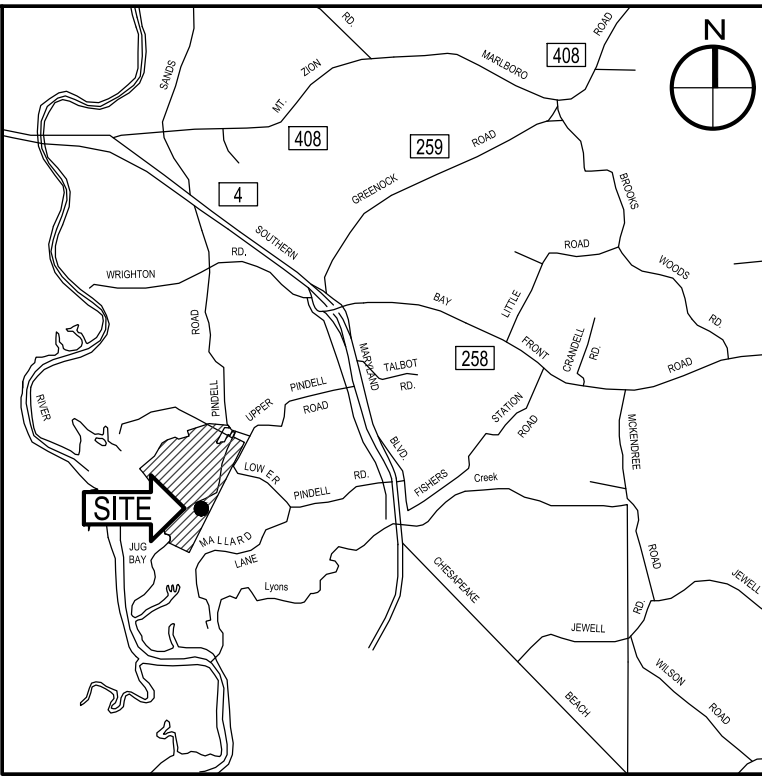
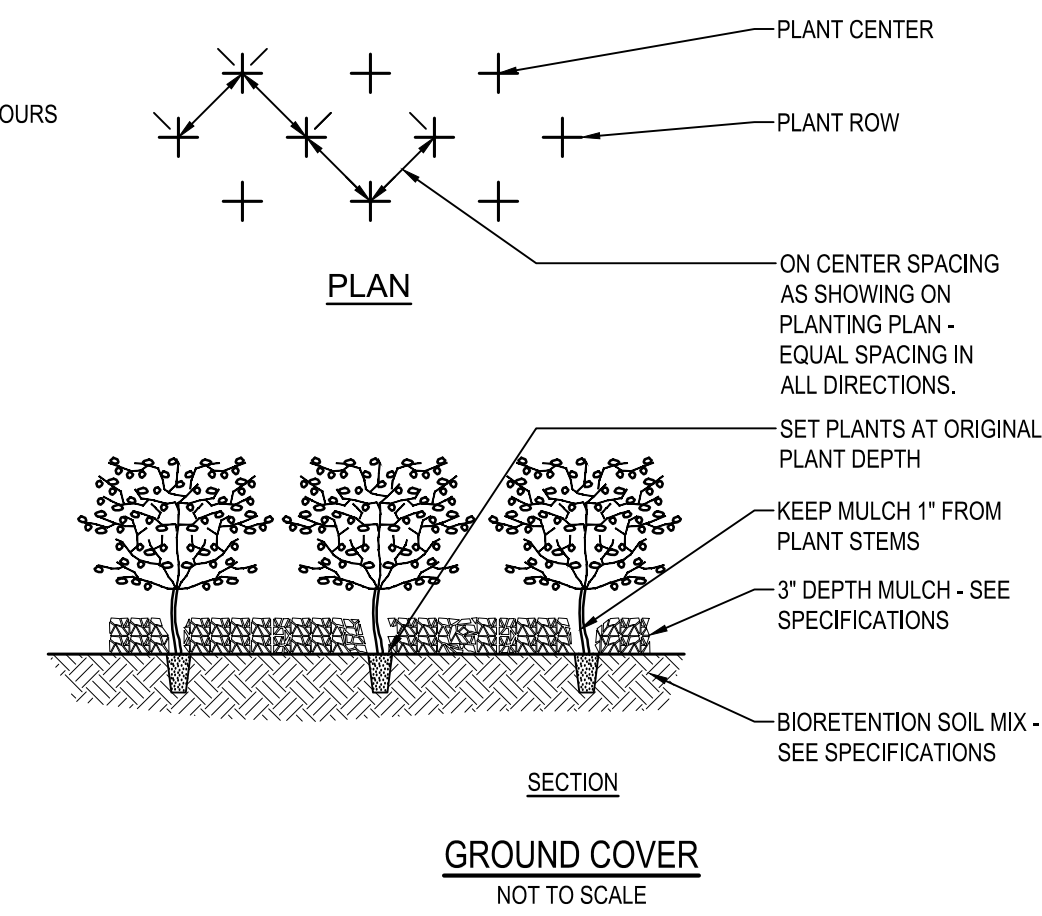
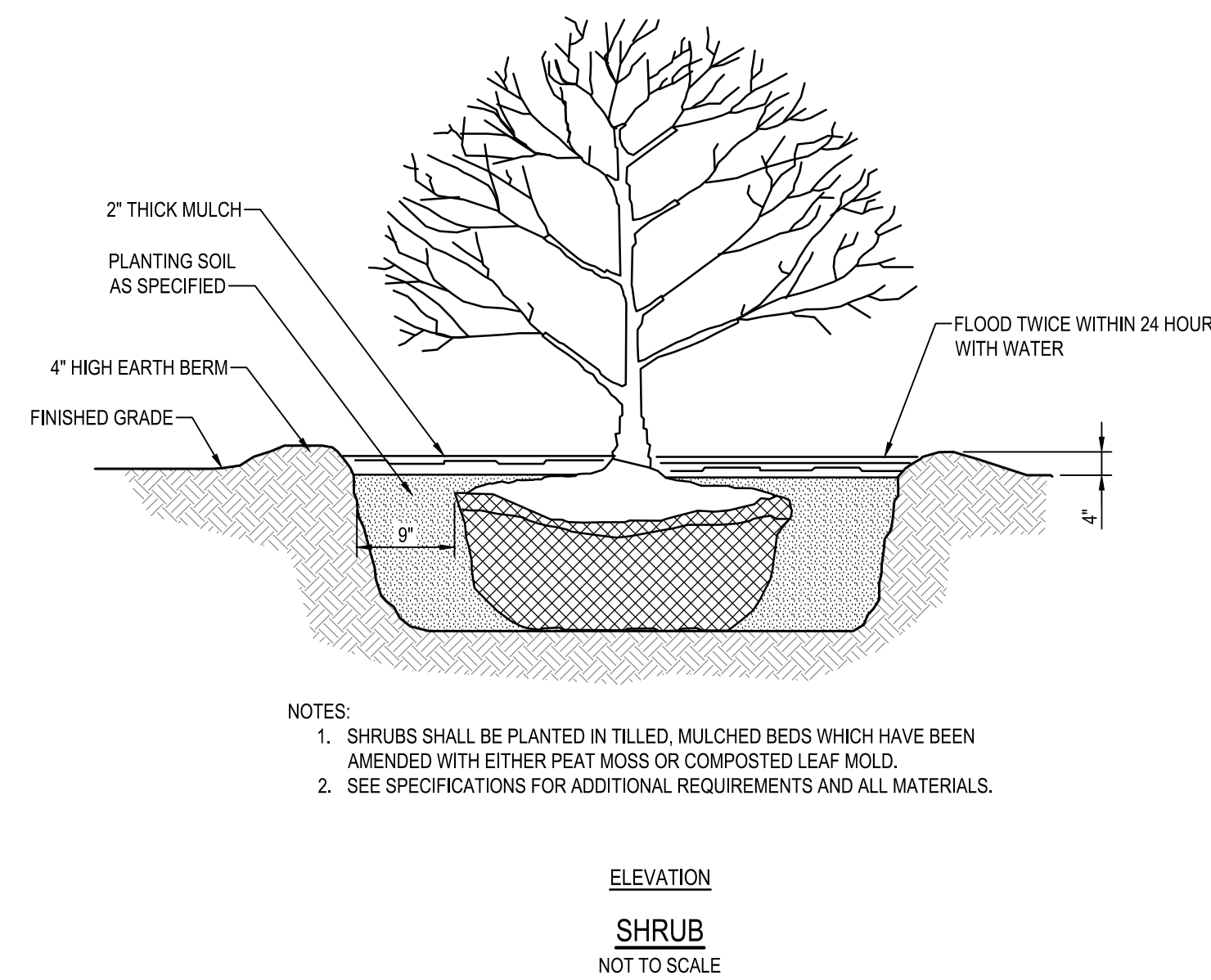
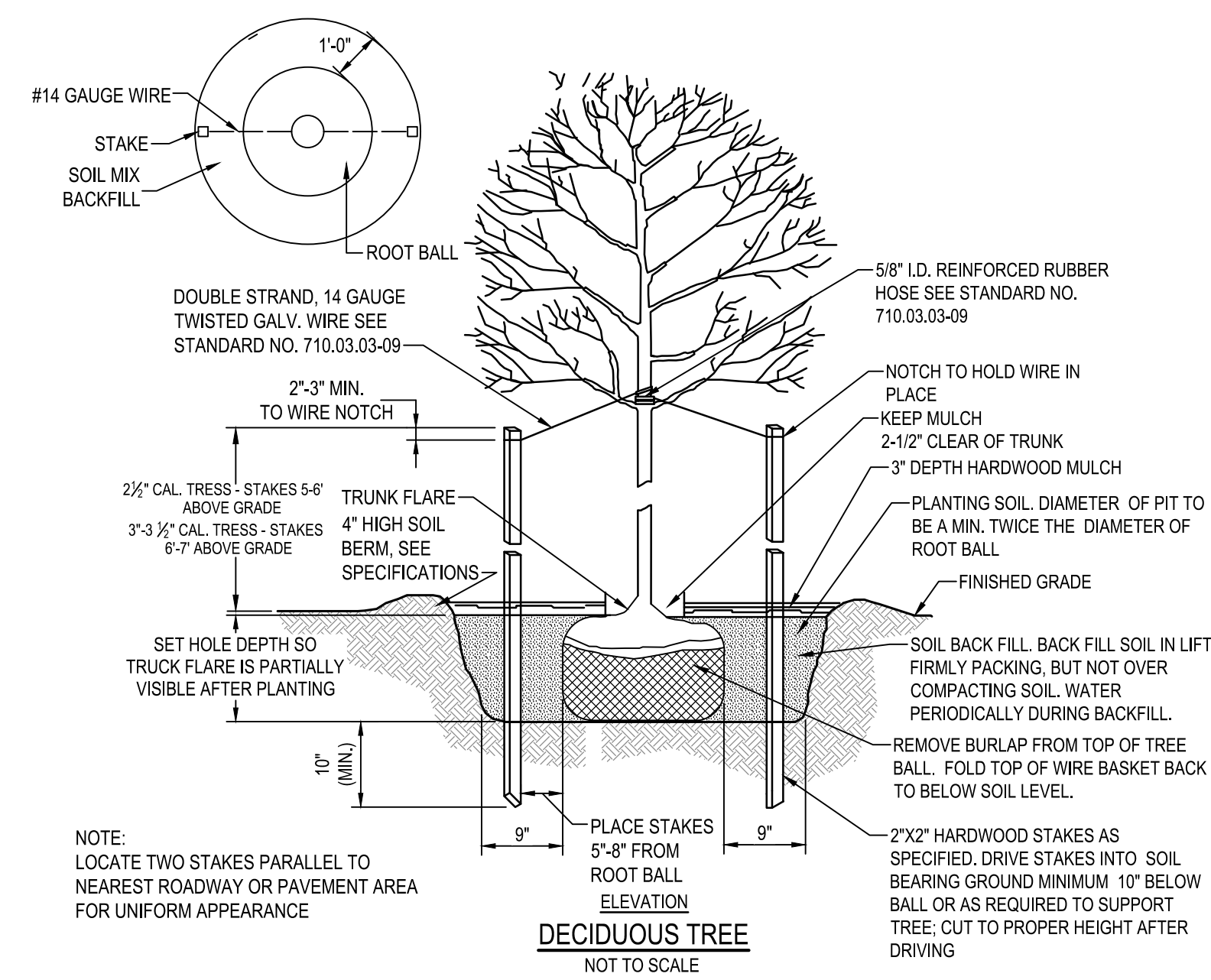
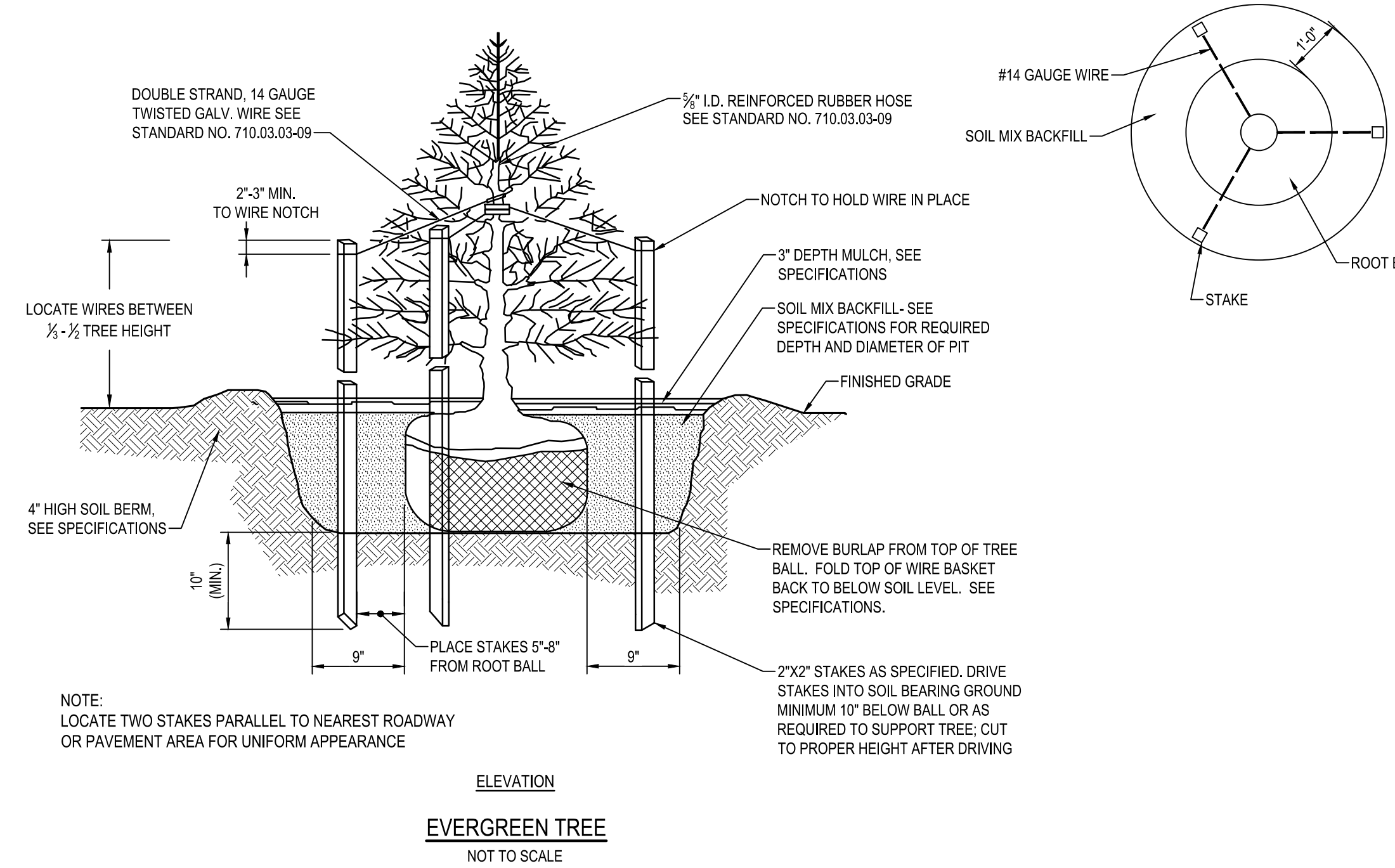
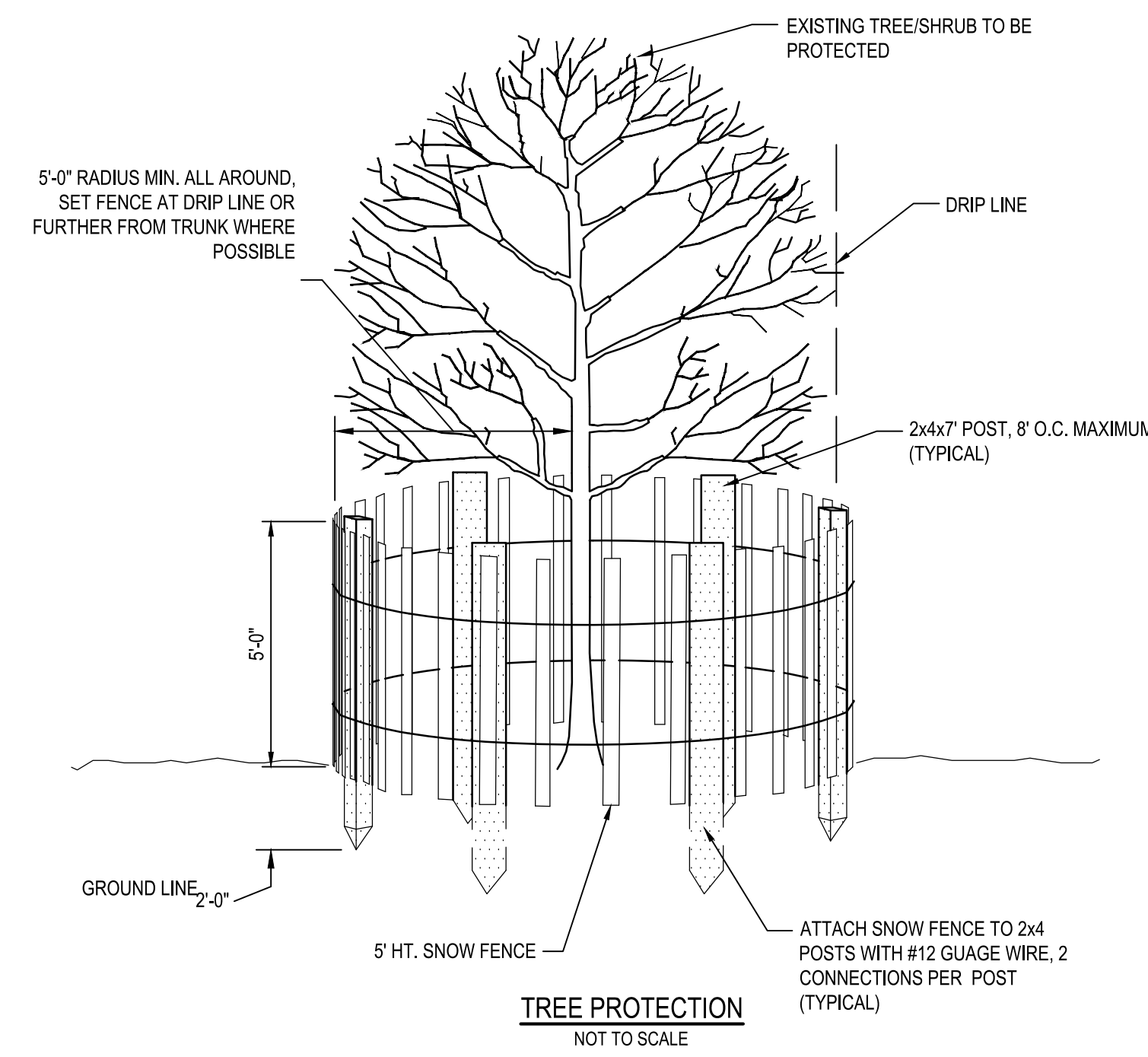
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: 1" = 30'
CHEIF ENGINEER	PROJECT MANAGER	DRAWN BY: R.S.S.
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER	CHEIF, RIGHT-OF-WAY	SHEET NO. 19 OF 63
		PROJECT NO.: P584501
		CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
LANDSCAPE PLAN

C601



MINIMUM LANDSCAPE MAINTENANCE REQUIREMENTS:

- LAWN AREAS SHALL BE MOWED TO A HEIGHT OF 2 TO 3 INCHES AND NOT ALLOWED TO REACH A HEIGHT OF 4 INCHES BEFORE MOWING.
- ALL CURBS AND WALKS SHALL BE EDGED AS NEEDED.
- ALL LAWN AREAS ADJACENT TO BUILDING FACES OR STRUCTURES SHALL BE TRIMMED.
- A SLOW RELEASE NITROGEN BALANCED FERTILIZER WITH A 2-1-1 RATIO SHALL BE APPLIED AT A RATE OF 2 POUNDS OF NITROGEN PER 1000 SQUARE FEET IN SEPTEMBER, OCTOBER, AND FEBRUARY.
- LIME SHALL BE APPLIED AT THE RATE DETERMINED BY A SOILS REPORT.
- IT IS RECOMMENDED THAT LAWN AREAS BE TREATED IN MID-MARCH TO EARLY APRIL WITH PER-EMERGENT HERBICIDE (BETASAN) OR EQUAL APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE.
- A POST-EMERGENT HERBICIDE (TRIMEC) OR EQUAL IS RECOMMENDED TO BE SPRAYED ON LAWN AREAS IN THE LATE SPRING OR THE EARLY FALL. FOLLOW MANUFACTURER'S RATES AND RECOMMENDATIONS.
- INSECTICIDES AND FUNGICIDES ARE RECOMMENDED FOR INSECT AND DISEASE CONTROL.
- RESEED BARE AREAS OF LAWN AS NECESSARY. YEARLY AERATION IS RECOMMENDED.
- ALL TRASH, LITTER, AND DEBRIS SHALL BE REMOVED FROM LAWN AREAS, PARKING LOTS, AND SHRUB BEDS AS NEEDED.
- MULCH ALL SHRUB AND GROUND COVER BEDS YEARLY WITH 3 INCHES OF HARD WOOD BARK.
- PERMIT SHRUBS AND TREES TO GROW AND ENLARGE TO THEIR DESIGN SIZE. CONSULT PROJECT LANDSCAPE ARCHITECT FOR DETAILS.
- PRUNE TREES IN ACCORDANCE WITH LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METRO-POLITAN AREAS.

GENERAL NOTES:

- ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "AMERICAN STANDARDS FOR NURSERY STOCK, ANSI Z66.1-2004" LATEST EDITION PREPARED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 230 SOUTHERN BUILDING, WASHINGTON, DC, 20005.
- CONTRACTOR MUST VERIFY THE CORRECT LOCATION OF ANY EXISTING UTILITIES WHICH ARE UNDERGROUND, PRIOR TO PLANT INSTALLATION. THE CONTRACTOR SHALL CALL MISS UTILITY (1-800-257-7777) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND REQUIREMENTS FOR CONSTRUCTION.
- ALL PLANT BEDS SHALL BE MULCHED WITH A MINIMUM OF 2" AND A MAXIMUM OF 3" LAYER OF MULCH WITHIN TWO DAYS AFTER PLANTING. THIS SHALL BE SHREDDED HARDWOOD BARK, AND SHALL COVER ENTIRELY THE PLANTING BED.
- ALL PLANTS SHALL BE GUARANTEED TO REMAIN ALIVE AND HEALTHY FOR A PERIOD OF TWO FULL YEARS AFTER INITIAL ACCEPTANCE. ANY REPLACEMENT PLANTS, REQUIREMENTS, ETC. AND METHOD OF PLACING SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN AND ON THE DRAWINGS.
- EXISTING SOIL IN BED AREAS SHALL BE AMENDED TO A DEPTH OF 12". SOIL MIX IN ALL BEDS SHALL BE 2/3 EXISTING SOIL, AND 1/3 ORGANIC MATERIAL SUCH AS LEAFGRO.
- PLANT MATERIAL AVAILABILITY MAY VARY AT THE TIME OF CONSTRUCTION. ANY SUBSTITUTIONS ARE TO BE OF EQUIVALENT TYPE AND SIZE (OR LARGER), AND MUST BE APPROVED BY LANDSCAPE ARCHITECT BEFORE INSTALLATION.
- WHERE THE CONDITION EXISTS THAT BALLED AND BURLAPPED TREES ARE DELIVERED IN WIRE BASKETS, THE WIRE BASKETS SHALL BE CUT DOWN THE SIDE OF EACH MESH AND PEELLED AWAY FROM THE ROOTBALL OR REMOVED IN ENTIRETY. NO PORTION OF THE WIRE BASKET SHALL REMAIN INTACT AROUND THE SIDES OF THE ROOTBALL OR EXTEND ABOVE FINISHED GRADE.
- ANY DAMAGE TO THE EXISTING UTILITIES, BUILDINGS, PAVING, CURB, WALLS, AND VEGETATION (NOT SO DESIGNATED FOR REMOVAL ON THESE PLANS) SHALL BE REPAIRED TO PREVIOUS CONDITION OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL AREAS DISTURBED DURING CONSTRUCTION ARE TO BE SEEDED UNLESS NOTED OTHERWISE.
- ADJUST TREE LOCATIONS IN THE FIELD IF LOCATIONS SHOWN CONFLICT WITH EXISTING VEGETATION NOT PICKED UP IN SURVEY.
- SEED DISTURBED AREAS.

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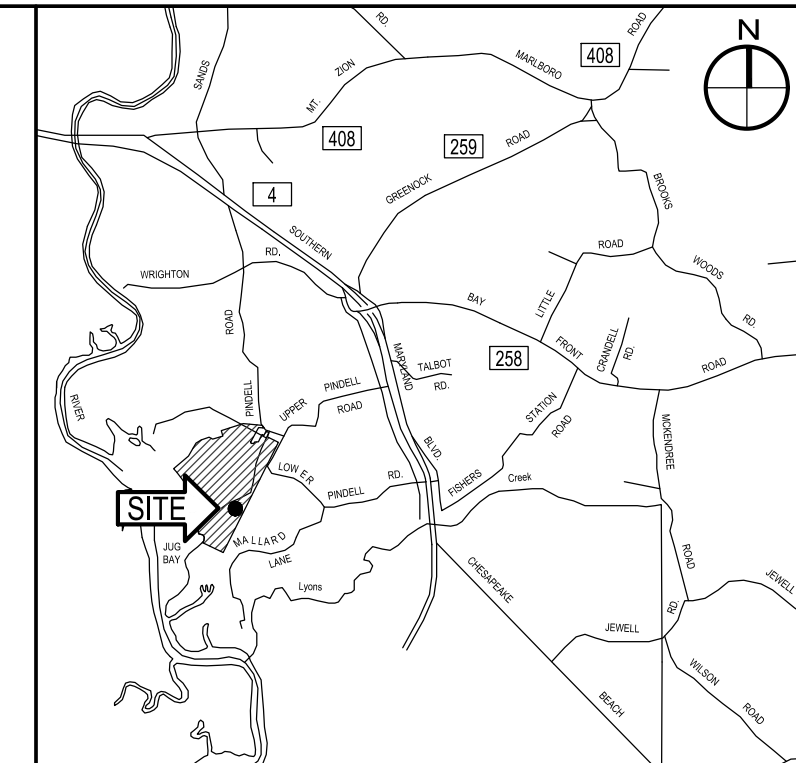
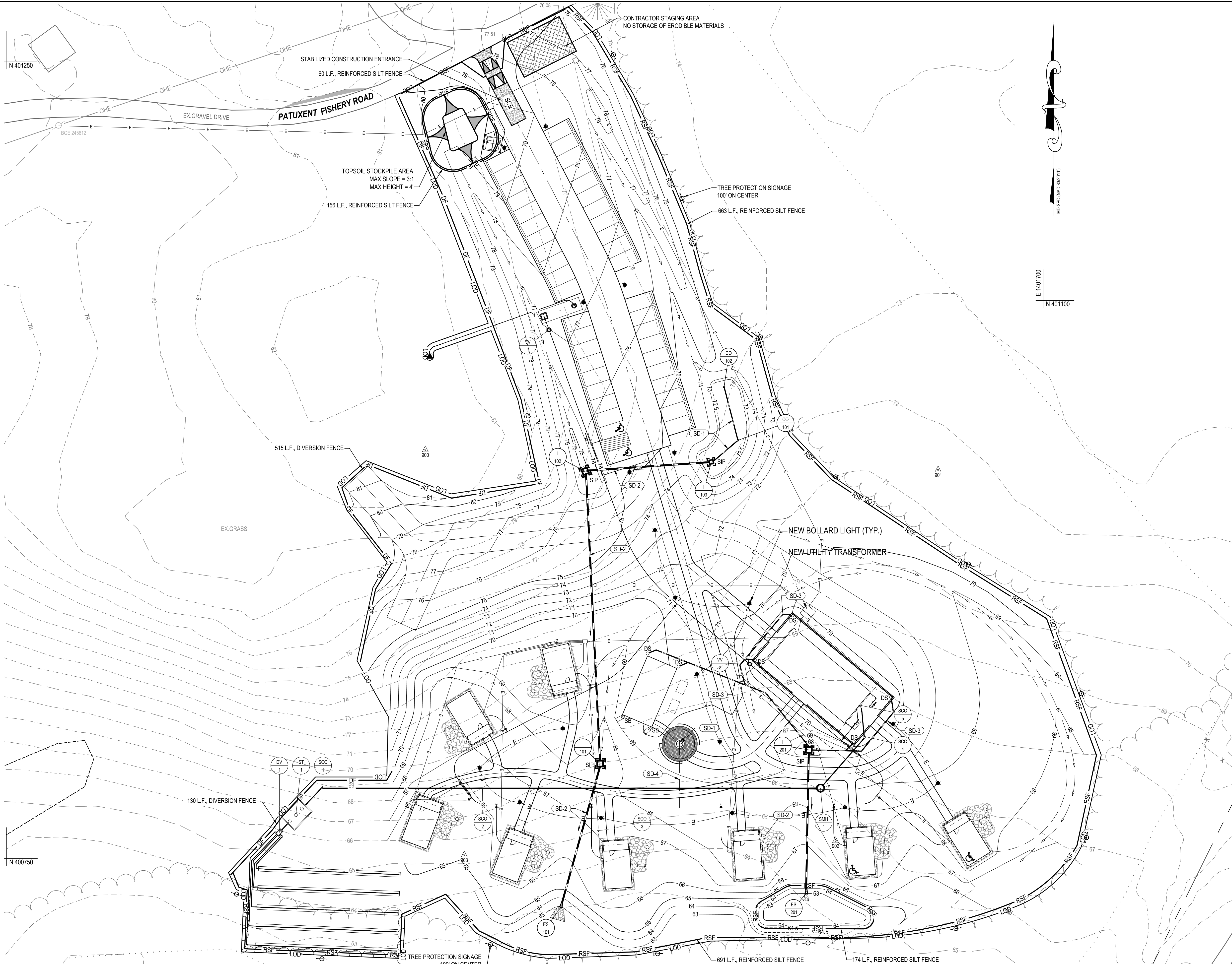
WBCM
A DIVISION OF TRANSYSTEMS

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 # 27734, Expiration Date: 07/12/24

REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS SHOWN	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION LANDSCAPE NOTES AND DETAILS C602
CHEIF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 20 OF 63 PROJECT NO.: P584501 CONTRACT NO.: P584500	



VICINITY MAP
SCALE: 1" = 8,333'

STANDARD STABILIZATION NOTE:
FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO 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 (7) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

MAINTENANCE OF SEDIMENT CONTROL
CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE PROJECT, REPAIR AND MAINTAIN EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL AREAS WITHIN LIMITS OF CONSTRUCTION ARE STABILIZED. ALL SEDIMENT CONTROL MEASURES REFERRED TO ON THESE PLANS SHALL BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED '2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL'.

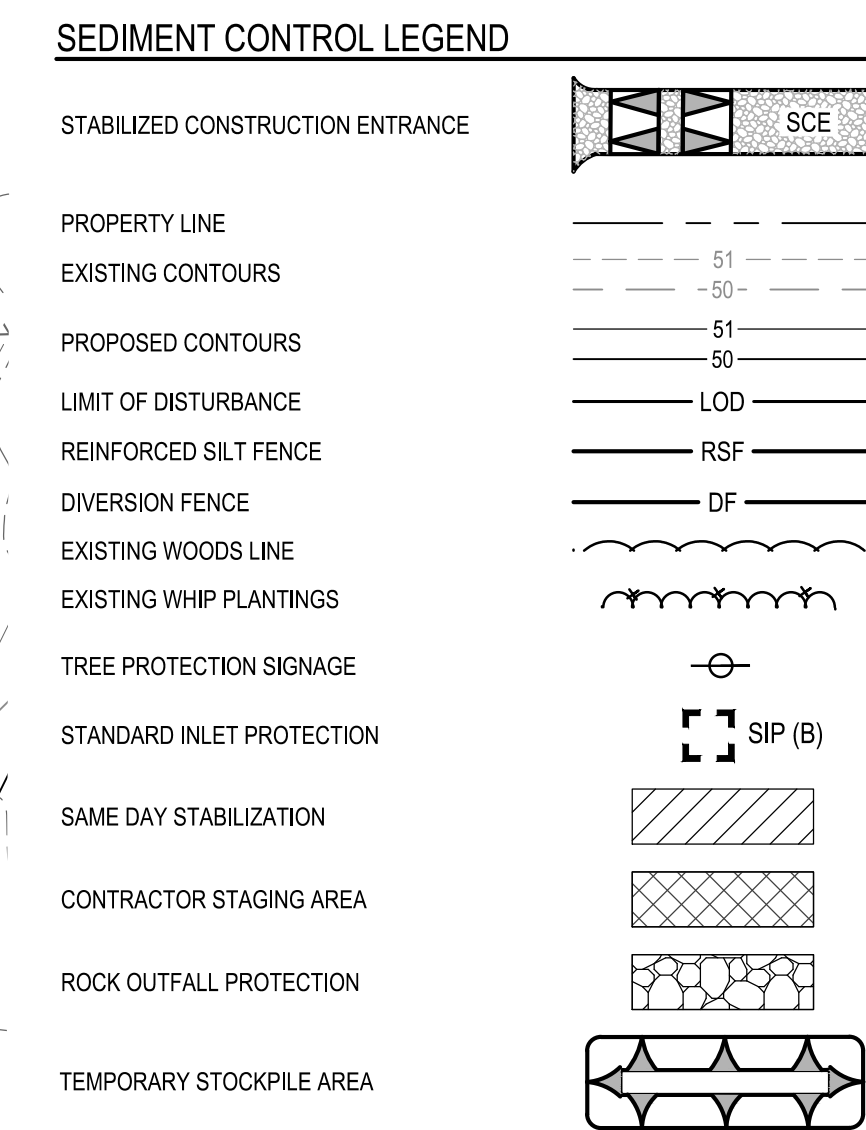
CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL MEASURES AND DEVICES AFTER EVERY STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO THE REMOVAL OF ALL ACCUMULATED SEDIMENT. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

NOTE FOR SAME DAY STABILIZATION
CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY.

- STABILIZATION SHALL BE AS FOLLOWS:
- FOR AREAS TO BE PAVED, THE APPLICATION OF STONE BASE.
 - FOR AREAS TO BE VEGETATIVELY STABILIZED:
 - PERMANENT SEED AND SOIL STABILIZATION MATTING OR SOD FOR ALL STEEP SLOPES, CHANNELS OR SWALES.
 - PERMANENT SEED AND MULCH FOR OTHER AREAS.
- ANY AREAS WHICH CANNOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWNSLOPE SIDE.

- UTILITY NOTE**
- CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWNSLOPE OF) THE TRENCH.
 - PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.
 - ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

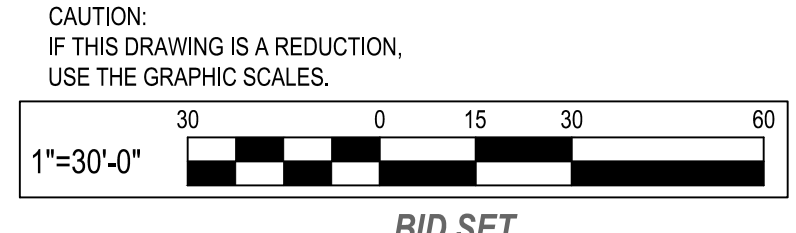
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THE CONTRACTOR IS RESPONSIBLE FOR PUMPING ALL STANDING WATER THROUGH A FILTERING DEVICE TO A CLEAR WATER OUTFALL WITHIN 24 HOURS OF A STORM EVENT.

STORM DRAIN NOTES

- SD-1 NEW 4" PERFORATED UNDER DRAIN.
- SD-2 NEW 15" HDPE PIPE.
- SD-3 NEW 6" HDPE PIPE.
- SD-4 NEW 4" SOLID PVC.



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road, Suite 300
Baltimore, MD 21286
410.512.4500 www.wbcm.com

REVISIONS			
NO.	DESCRIPTION	BY	DATE

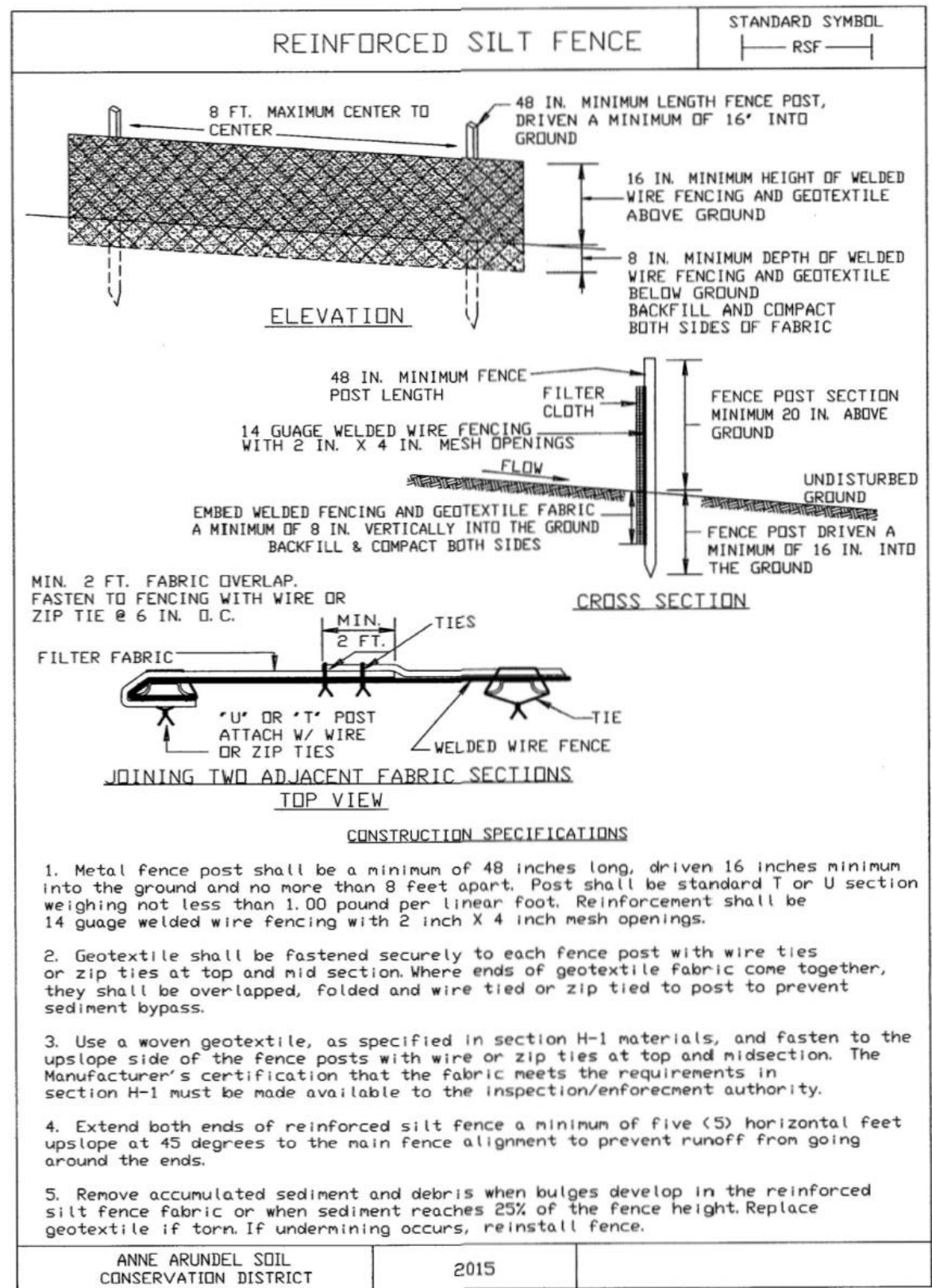
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED	DATE	APPROVED	DATE	SCALE: 1" = 30'
CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: R.S.S.
APPROVED	DATE	APPROVED	DATE	CHECKED BY: R.W.H.
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY		SHEET NO. 21 OF 63
				PROJECT NO.: P584501
				CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
EROSION AND SEDIMENT CONTROL PLAN
C701

P:\2017\17141806\Drawings\07-Site\17141806-C701-Sedcon Plan.dwg Nov 07, 2023 3:01pm Plot By: remith

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 # 27734, Expiration Date: 07/12/24



REINFORCED SILT FENCE

Design Criteria

Reinforced Silt Fence Design Constraints

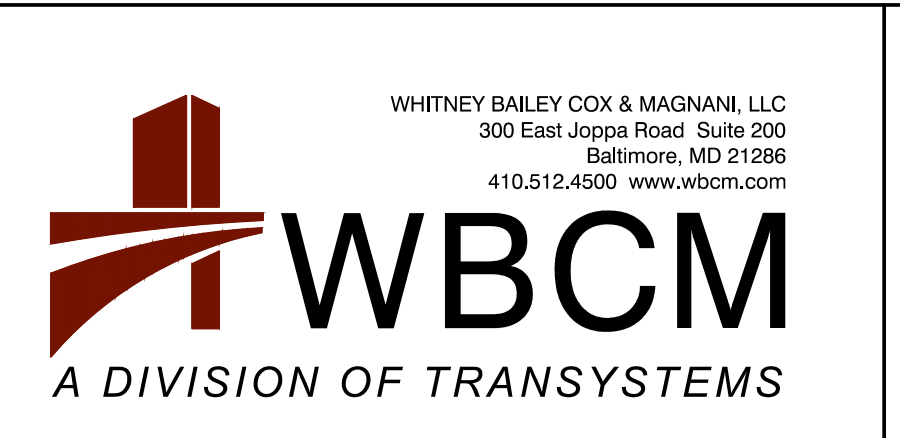
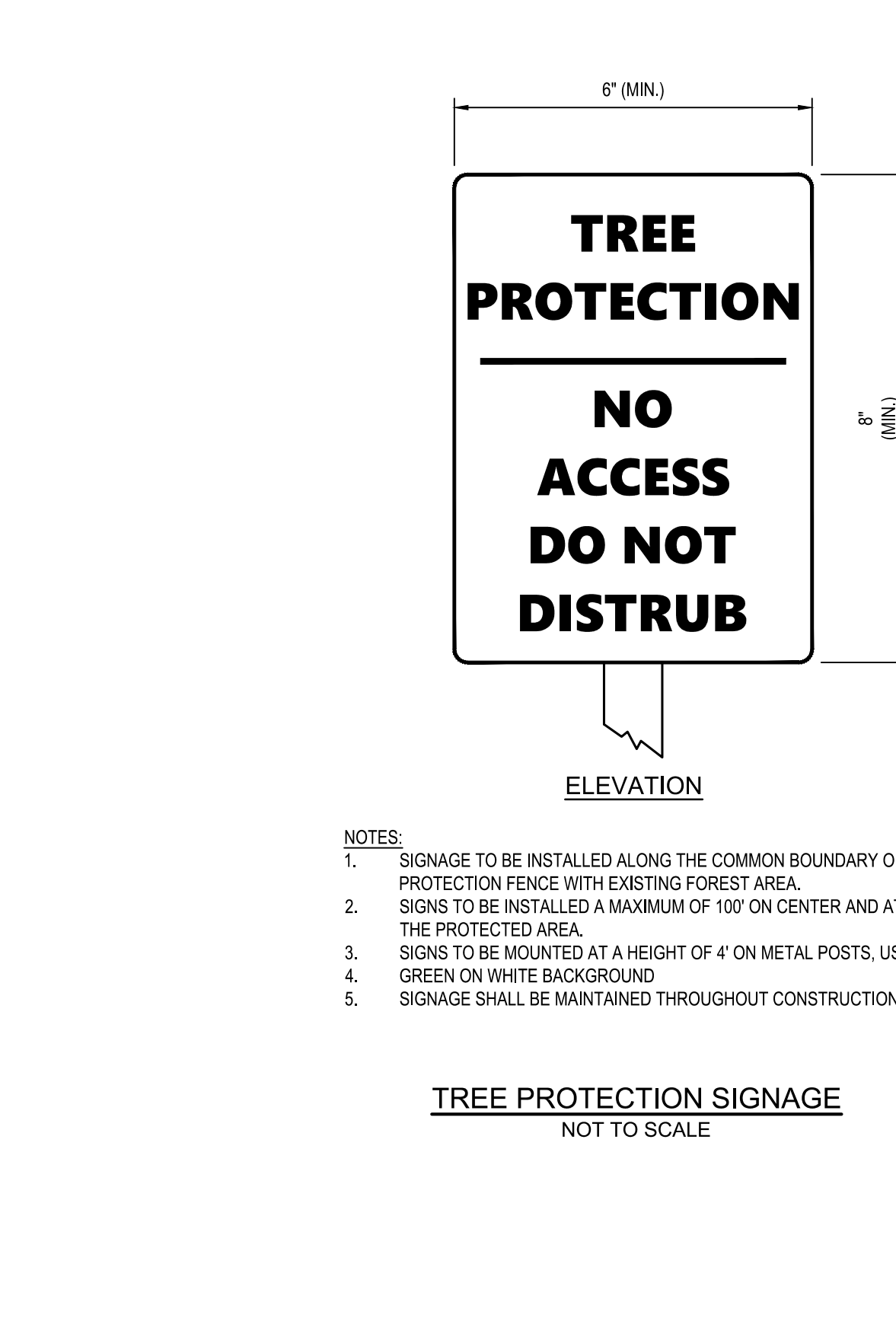
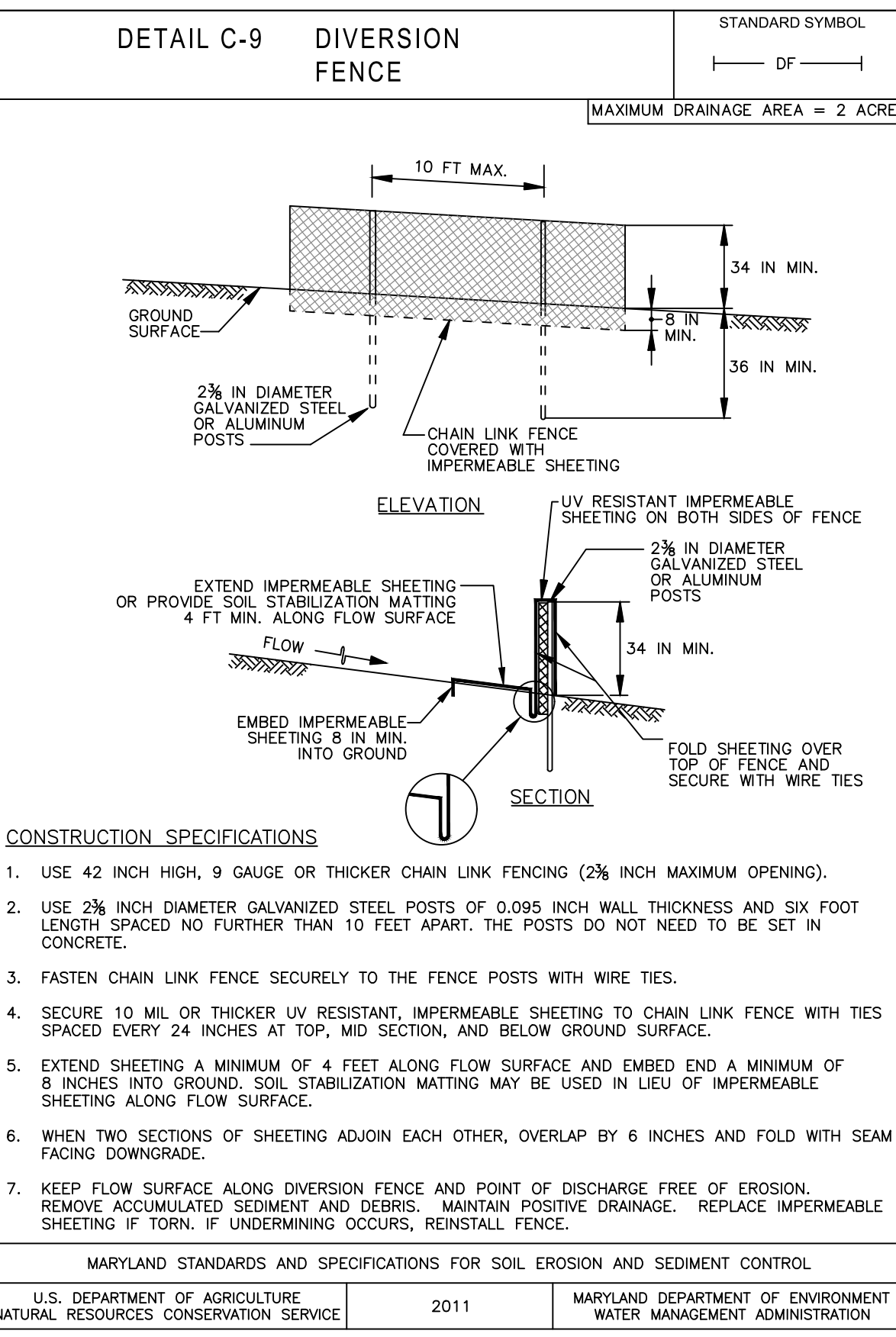
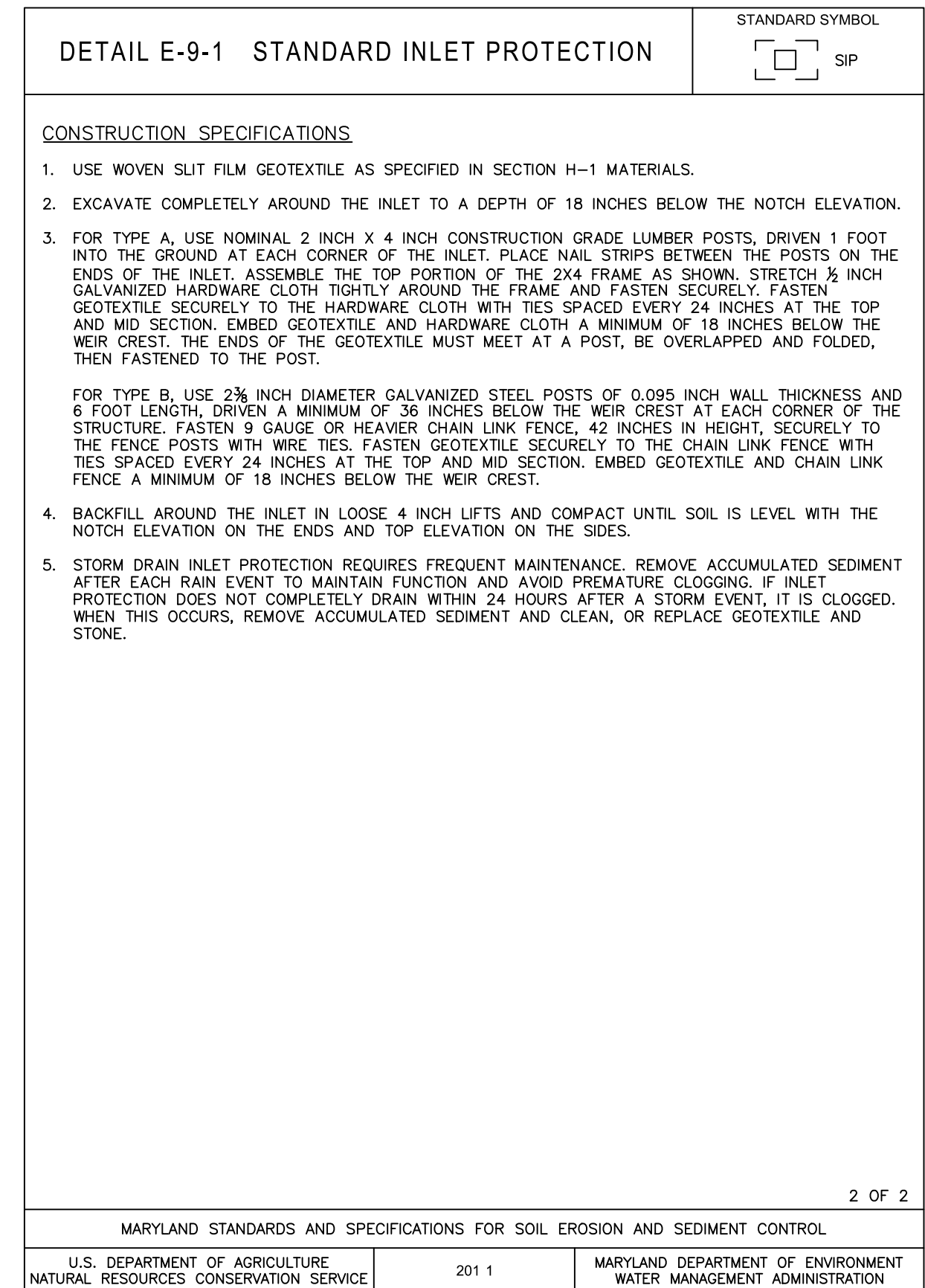
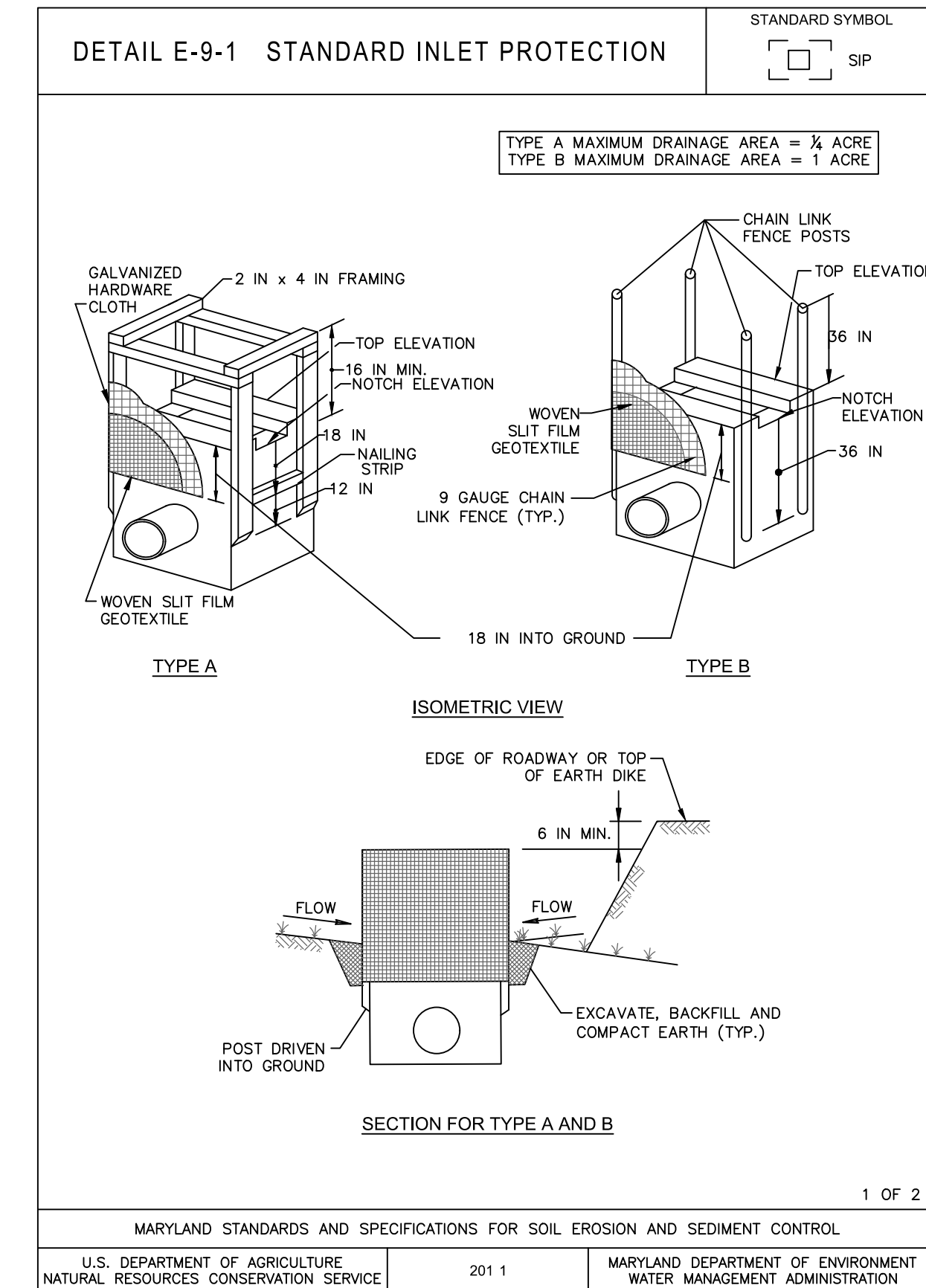
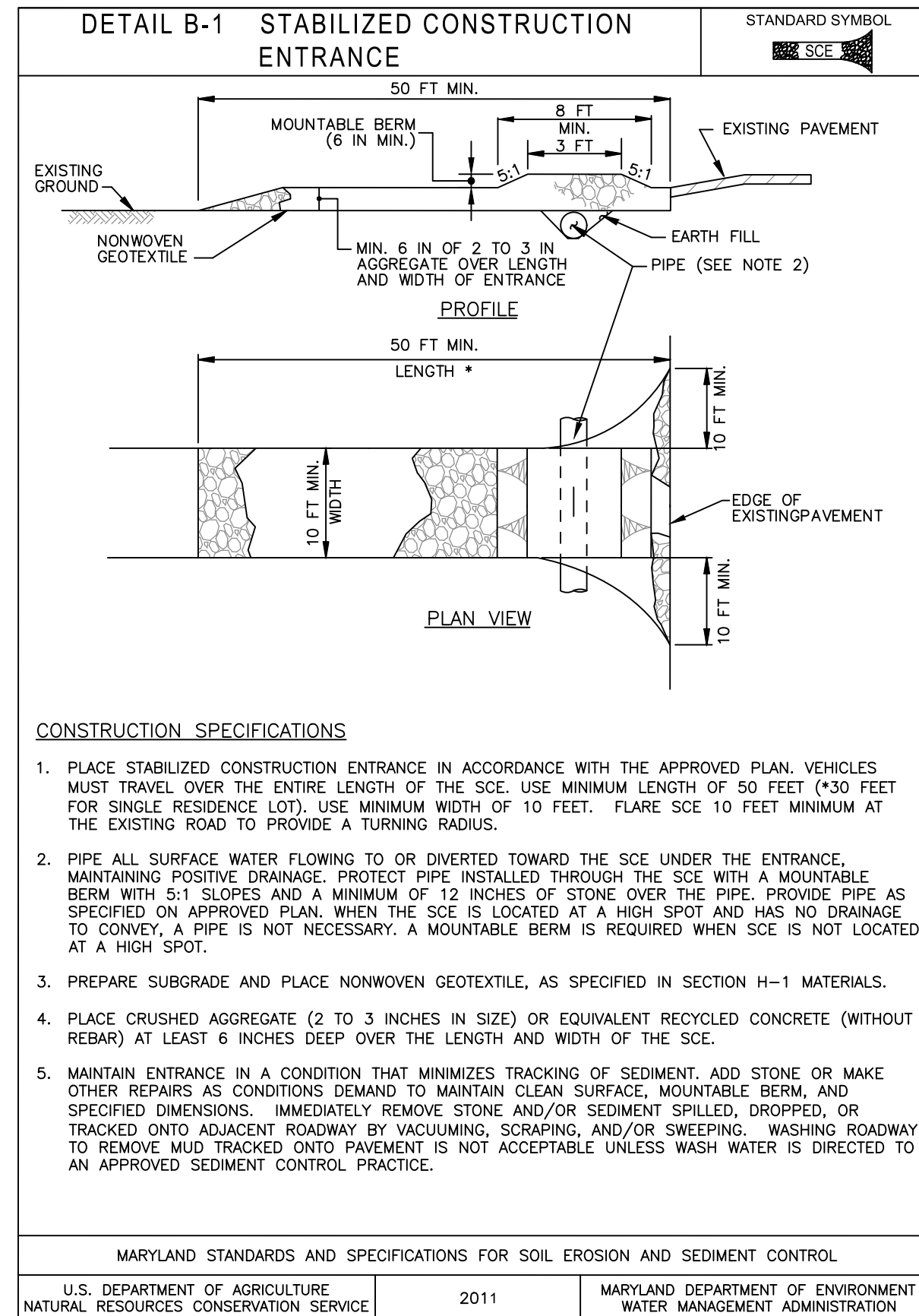
Average Slope Steepness	Maximum Slope Length	Maximum Silt Fence Length
Flatter than 50:1 (<2%)	300 feet*	Unlimited
50:1 to 10:1 (2-10%)	125 feet	1,000 feet
10:1 to 5:1 (10-20%)	100 feet	750 feet
5:1 (>20%)	40 feet	250 feet

*Maximum slope length is unlimited on the Hydrologic Soil Group (HSG) "A" soils

- The use of Reinforced Silt Fence must conform to the design constraints listed above.
- The area downgrade of the Reinforced Silt Fence must be undisturbed ground.
- Reinforced Silt Fence must be placed along the contour.
- Reinforced Silt Fence should be used with caution in areas where rocky soils may prevent trenching.
- Extend both ends of reinforced silt fence a minimum of five (5) horizontal feet upslope and 45 degrees to the main fence alignment to prevent runoff from going around the edges.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



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REVISIONS			
NO.	DESCRIPTION	BY	DATE

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	

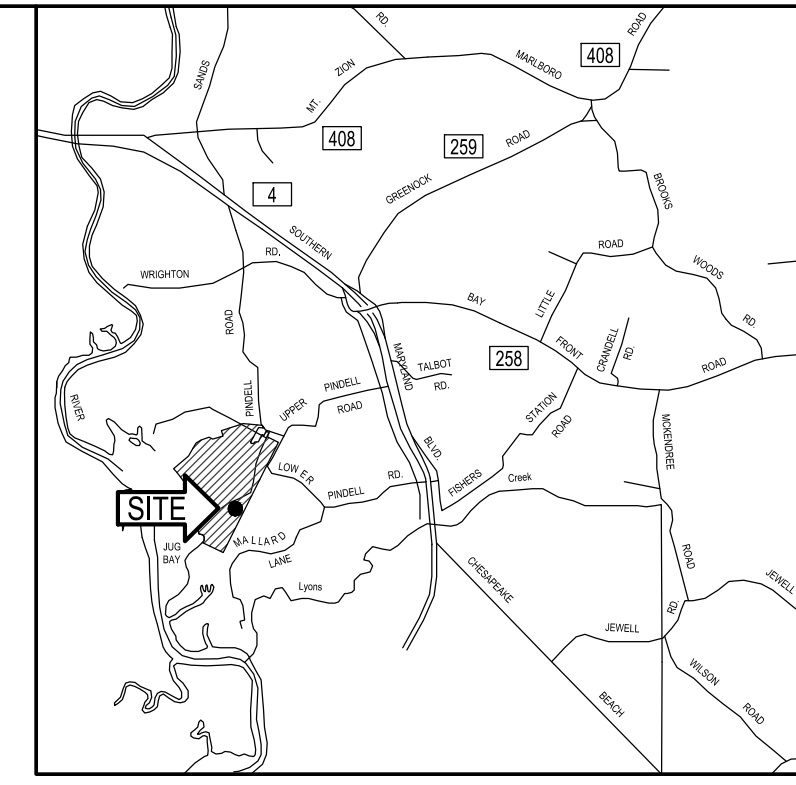
SCALE: AS SHOWN
DRAWN BY: R.S.S.
CHECKED BY: R.W.H.
SHEET NO. 23 OF 63
PROJECT NO.: P584501
CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
EROSION AND SEDIMENT CONTROL DETAILS
C703



LEGEND

[Symbol]	BITUMINOUS PAVEMENT
[Symbol]	CONCRETE PAVEMENT
[Symbol]	ELEVATION CONTOUR
[Symbol]	CHAIN LINK FENCE
[Symbol]	PROPERTY LINE
[Symbol]	INDIVIDUAL TREES (NON-SPECIMEN)
[Symbol]	SPECIMEN TREE CRITICAL ROOT ZONE
[Symbol]	SPECIMEN TREE WITH CRITICAL ROOT ZONE, >30" DBH
[Symbol]	FOREST
[Symbol]	PROPOSED LIMIT OF DISTURBANCE / NET TRACK AREA
[Symbol]	FOREST FIELD SURVEY LIMITS
[Symbol]	MAPPED SOIL UNIT / HYDROLOGIC SOIL GROUP RATING
[Symbol]	STEEP SLOPES (15% TO 25%)
[Symbol]	STEEP SLOPES (25% OR GREATER)
[Symbol]	EXISTING WHIP PLANTINGS BY Jug Bay



- FOREST STAND DELINEATION NOTES:**
FOR JUG BAY EDUCATION, RESEARCH AND DISCOVERY FIELD STATION
- ADDRESS: JUG BAY EDUCATION, RESEARCH AND DISCOVERY FIELD CENTER OWNER: ANNE ARUNDEL COUNTY, DEPARTMENT OF RECREATION AND PARKS, PO BOX 2660, ANNAPOLIS, MD 21404
 - PROPERTY INFORMATION: MAP 75, GRID 18, PARCEL 0006, 302.78 ACRES
 - ZONING: RA - RURAL AGRICULTURAL
 - THE EXISTING CONDITIONS INFORMATION SHOWN IS BASED UPON FIELD RUN TOPOGRAPHIC SURVEY PERFORMED BY WBCM. AN ABBREVIATED FOREST FIELD ASSESSMENT WAS CONDUCTED ON-SITE BY WBCM IN XXXXX. SPECIMEN TREES NOTED ON SITE ARE AS INDICATED ON THE PLAN AND THE SPECIMEN TREE CHART. FOREST TYPE INDICATED IS BASED UPON A SINGLE 1/20 ACRE SAMPLE PLOT.
 - THE FOREST COVER SHOWN IS FROM FIELD RUN SURVEY AND AERIAL COVERAGE. PER CODE SECTION § 17-6-302. FOREST STAND DELINEATION (C)(1)
 - THE STATUS OF THE 100-YR FLOOD PLAIN: NO FLOOD PLAINS PRESENT ON-SITE WITHIN L.O.D.
 FEMA FLOOD MAP: FIRM PANEL 240008
 COMMUNITY NUMBER PANEL SUFFIX
 ANNE ARUNDEL COUNTY 24003C0290F & 24003C0295F 290 & 295 F
 - THERE ARE NO MAPPED NON-TIDAL WETLANDS AND/OR WETLAND BUFFERS LOCATED WITHIN THE LOD AS DETERMINED BY MERLIN ONLINE IN MARCH, 2018.
 - THE PROJECT IS LOCATED OUTSIDE OF THE CHESAPEAKE BAY CRITICAL AREA.
 - INTERMITTENT AND PERENNIAL STREAMS ARE LOCATED ON-SITE.

HYDROLOGIC SOIL GROUP - ANNE ARUNDEL COUNTY, MARYLAND

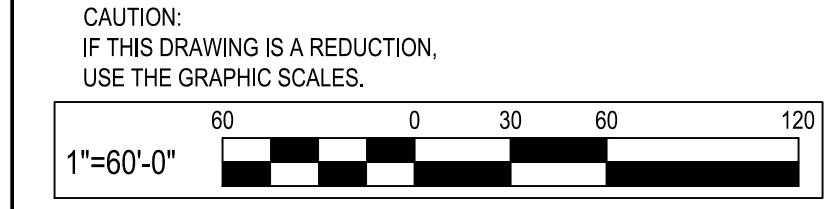
MAP UNIT SYMBOL	MAP UNIT NAME	HSG RATING	k RATING	HYDRIC RATING
CoA	COLLINGTON - WIST COMPLEX, 0 TO 2 PERCENT SLOPES	B	.17	MODERATELY TO WELL DRAINED
CSE	COLLINGTON WIST & WESTPHALIA, 15 TO 25 PERCENT SLOPES	A	.17	WELL TO EXCESSIVELY DRAINED
GaB	GALESTOWN LOMAY SAND, 0 TO 5 PERCENT SLOPES	A	.10	WELL TO EXCESSIVELY DRAINED
PiB	PATAPSCO - FORT MOTT COMPLEX, 0 TO 5 PERCENT SLOPES	A	.02	WELL TO EXCESSIVELY DRAINED
PiC	MARR-DODDON COMPLEX, 5 TO 10 PERCENT SLOPES	A	.02	WELL TO EXCESSIVELY DRAINED
TsA	TINTON LOMAY SAND, 2 TO 5 PERCENT SLOPES	A	.10	WELL TO EXCESSIVELY DRAINED
WdB	WOODSTOWN SANDY LOAM, 2 TO 5 PERCENT SLOPES	C	.24	SLOW INFILTRATION RATE

GEOLOGY:
 SOILS HAVING A HIGH INFILTRATION RATE (LOW RUNOFF POTENTIAL) WHEN THOROUGHLY WET. THESE CONSIST MAINLY OF DEEP, WELL DRAINED TO EXCESSIVELY DRAINED SANDS OR GRAVELLY SANDS. THESE SOILS HAVE A HIGH RATE OF WATER TRANSMISSION.

SPECIMAN TREE CHART

TREE NO.	SPECIES	DBH (in.)	CONDITION
ST #1	Liriodendron tulipifera Tulip Poplar	30	Good
ST #2	Liriodendron tulipifera Tulip Poplar	33	Good

Stand Variable	Stand #A1
1. Dominant species / Codominant species	Maple, Oak
2. Successional stage	Late
3. Basal area in s.f. per acre	130
4. Size class of dominant species	6-12" DBH
5. Percent of canopy closure	90%
6. Number of tree species per acre	7
7. Common understorey species per acre	PawPaw, Holly, Cedar
8. Percent of understorey cover 3' to 20' tall	25%
9. Number of woody plant species 3' to 20' tall	3
10. Common herbaceous species 0' to 3' tall	Cedar, Holly, Spicebush
11. Percent of herbaceous & woody plant cover 0' to 3' tall	15%
12. List of major invasive plant species & percent of cover	Ivy - 5% & Silt Grass - 10%
13. Number of standing dead trees 6" dbh or greater	1
14. Comments	Not a lot of invasive material, very nice wood stand

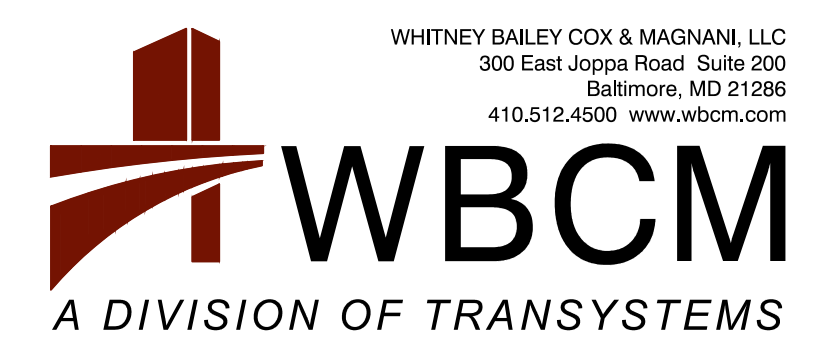


PROPERTY OWNER: ANNE ARUNDEL COUNTY DEPT. OF PUBLIC WORKS
 DEED: 14509/00215
 MAP: 0075; GRID: 0018; PARCEL: 0006

P:\2017\17141806\Drawings\07-Site\17141806-C800 Forest Stand Delineation Plan.dwg Nov. 07, 2023 3:04pm Plot By: remith

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

SIGNATURE: _____
 DATE: _____



WHITNEY BAILEY COX & MAGNANI, LLC
 300 East Joppa Road, Suite 300
 Baltimore, MD 21286
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 License # 27734, Expiration Date: 07/12/24

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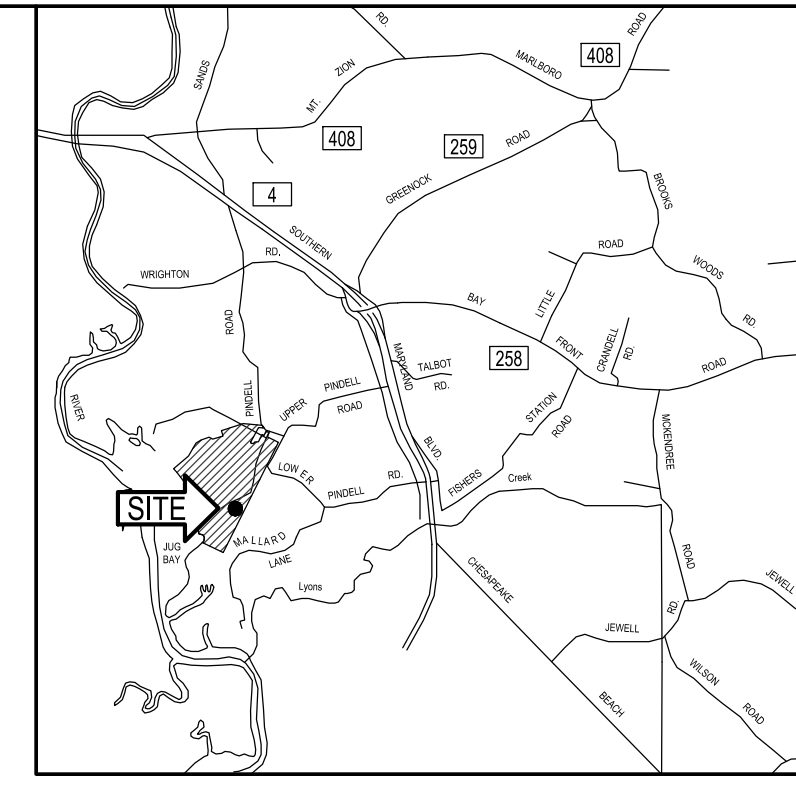
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: 1" = 60'		DRAWN BY: R.S.S.	
CHECKED BY: R.W.H.		SHEET NO. 24 OF 63	
PROJECT NO.: P584501		CONTRACT NO.: P584500	
JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION FOREST STAND DELINEATION PLAN			
C800			

BID SET



LEGEND

[Symbol]	BITUMINOUS PAVEMENT
[Symbol]	CONCRETE PAVEMENT
[Symbol]	ELEVATION CONTOUR
[Symbol]	CHAIN LINK FENCE
[Symbol]	PROPERTY LINE
[Symbol]	INDIVIDUAL TREES (NON-SPECIMEN)
[Symbol]	SPECIMEN TREE CRITICAL ROOT ZONE
[Symbol]	SPECIMEN TREE WITH CRITICAL ROOT ZONE, >30" DBH
[Symbol]	FOREST
[Symbol]	PROPOSED LIMIT OF DISTURBANCE / NET TRACK AREA
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[Symbol]	STEEP SLOPES (15% TO 25%)
[Symbol]	STEEP SLOPES (25% OR GREATER)



ANNE ARUNDEL COUNTY FOREST CONSERVATION WORKSHEET (In Acres)

Variables	Unique Tract 1	
Site Information		
A. Growth Management Area	OUTSIDE Priority Funding Area	
B. Land Use Type	Institutional / Recreational	
C. Total Unique Tract Area	303	
D. Universal Deductions (Critical Area or 100-Yr Floodplain)	0	
E. Impervious Surface Deductions for Targeted Growth and Priority Funding Areas	0	
F. Existing Forest Cover within Net Unique Tract Area	196	
G. Proposed Forest Clearing within Net Unique Tract Area	0.04	Total Net Tract Area
H. Net Unique Tract Area = (C)-(D)-(E)	303	
I. Total Net Tract Area less than or equal to 5 Acres?	NO	
Key for lookup table		
I. Conservation Threshold	0	Institutional
J. Afforestation Threshold	0	
Forest Conservation		
K. Conservation Threshold Area = (H) X (I)	0.0	
L. Area of Forest Above Conservation Threshold = (F) - (K)	196.0	
M. Breakeven Point (Amount of forest that must be retained so that no mitigation is required)		
If the Area of Forest Above Conservation Threshold (L) is greater than 0, then M = ((0.3333) X (L)) + (K). If the Area of Forest Above Conservation Threshold is equal to 0, then M = (F).		
N. Forest Clearing Permitted without Mitigation = (F) - (M)	130.7	
O. Proposed Forest Retention = (F) - (G)	196.0	
P. Reforestation for Retention Above the Threshold		
If Proposed Forest Clearing (G) is > Area of Forest Above Conservation Threshold (L), then (P) = (L) X (0.5). If not, then (P) = (G) X (0.5).		
Q. Credit for Retention Above the Threshold		
If Proposed Forest Clearing (G) is > Area of Forest Above Conservation Threshold (L), then (R) = 0. If not, then (R) = (L) - (G).		
R. Reforestation for Retention Below the Threshold		
If Proposed Forest Clearing (G) < Area of Forest Above Conservation Threshold (L), then (R) = 0. If not, then (R) = ((G) - (L)) X 2		
S. Total Reforestation Required = (P) + (R) - (Q)	0.0	
T. Afforestation Threshold Area = (H) X (J)	0.0	
U. Total Afforestation Required		
If Existing Forest Cover (F) < Afforestation Threshold Area (T), then (U) = (T) - (F). If not, then (U) = 0.		
V. Total Mitigation Required By Tract = (S) + (U)	0	
* These mitigation values represent required mitigation absent any other conditional mitigation such as mitigation to cure a violation of fulfill a conditional approval.		

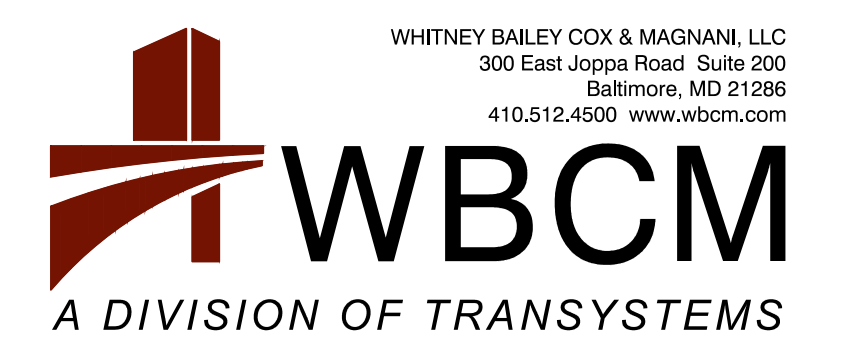
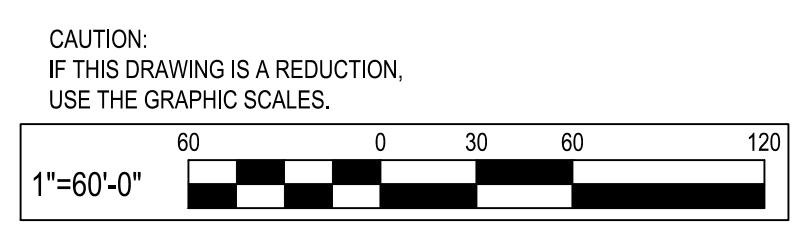
- FOREST CONSERVATION NOTES:**
- ADDRESS: JUG BAY EDUCATION, RESEARCH AND DISCOVERY FIELD STATION, 6032 PINDELL ROAD LOTHIAN MARYLAND 20711
 - OWNER: ANNE ARUNDEL COUNTY, DEPARTMENT OF RECREATION AND PARKS, PO BOX 2660, ANNAPOLIS, MD 21404
 - PROPERTY INFORMATION: MAP 75, GRID 18, PARCEL 0006, 302.78 ACRES
 - EXISTING IMPERVIOUS AREA = 0 SQ.FT. / 0 ACRES. THE PROJECT IS NOT LOCATED IN A PRIORITY FUNDING AREA (PFA).

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

SIGNATURE: _____

DATE: _____

BID SET



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REVISIONS			
NO.	DESCRIPTION	BY	DATE

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	

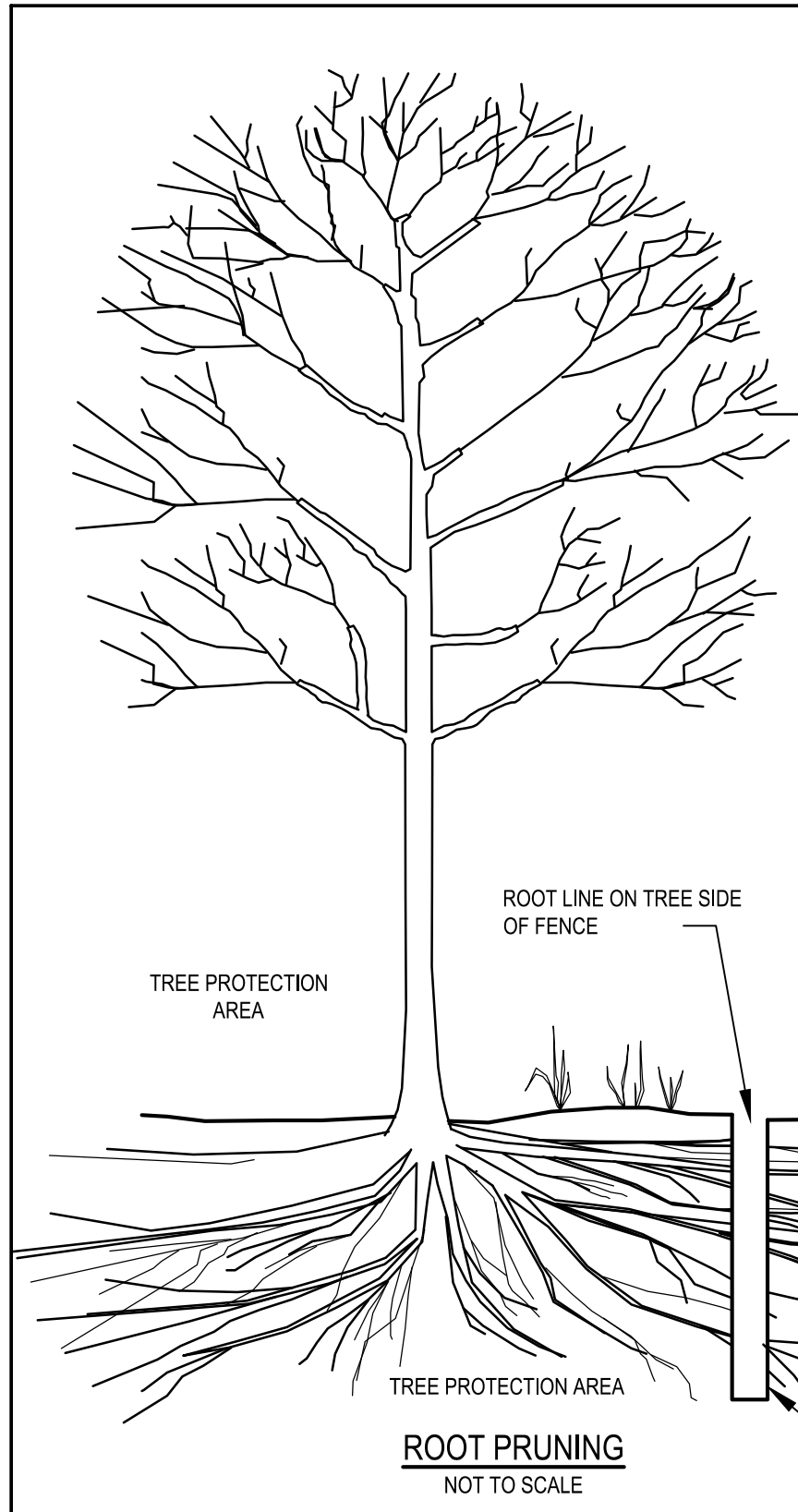
SCALE:	1" = 60'
DRAWN BY:	R.S.S.
CHECKED BY:	R.W.H.
SHEET NO.:	25 OF 63
PROJECT NO.:	P584501
CONTRACT NO.:	P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION

FOREST CONSERVATION PLAN

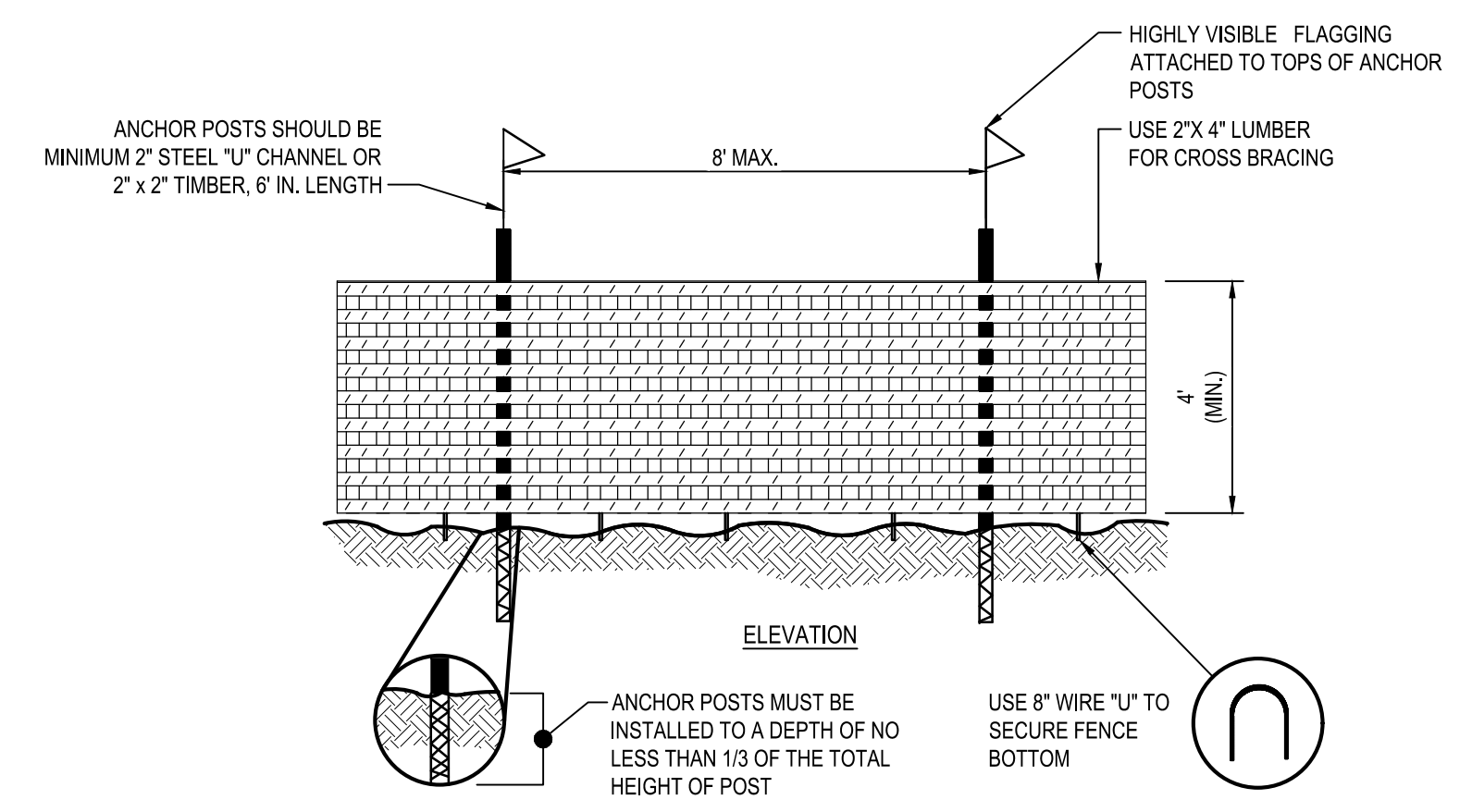
C901

P:\2017\17141806\Drawings\07-Site\17141806-C900 Forest Conservation Plan.dwg Nov 07, 2023 3:07pm Plot By: rsmith



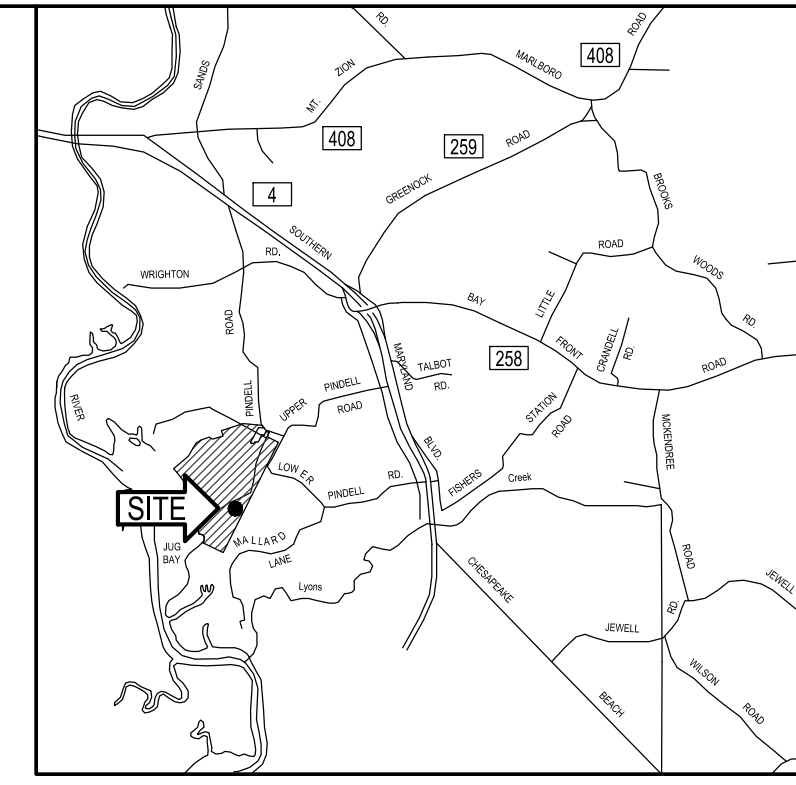
- NOTES:
1. ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY FLOW TO A DEPTH OF 18". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT, WHICH IS STILL ATTACHED TO THE TREE. DO NOT PAINT THE CUT ROOT END. IF EXCAVATION IS FOR INSTALLATION OF UNDERGROUND UTILITIES, LEAVE THE ROOT INTACT AND THREAD THE LINES UNDERNEATH.
 2. ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATION OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED PRIOR TO TRENCHING.
 3. ROOT PRUNING SHALL BE CONDUCTED WITH THE SUPERVISION OF A CERTIFIED ARBORIST.
 4. BACKFILL THE ROOT-PRUNING TRENCH WITH EXCAVATED SOIL AND MULCH AND MARK LOCATION FOR FUTURE REFERENCE. SILT FENCE MAY BE INSTALLED IN TRENCH PRIOR TO BACKFILLING AS LONG AS THE TRENCH IS NOT OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.
 5. ROOT PRUNING WORK WILL NOT BE DONE WHEN MORE THAN TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING WILL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.

ROOT PRUNING
NOT TO SCALE



- NOTES:
1. BLAZE ORANGE OR BLUE PLASTIC MESH FENCE FOR FOREST PROTECTION DEVICE ONLY.
 2. BOUNDARIES OF RETENTION AREA WILL BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREA SHALL BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 4. AVOID DAMAGE TO CRITICAL ROOT ZONE. DO NOT DAMAGE OR SEVERE LARGE ROOTS WHEN INSTALLING POSTS.
 5. PROTECTION SIGNS ARE REQUIRED.
 6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION FENCE
NOT TO SCALE



VICINITY MAP
SCALE: 1" = 8,333'

CRITICAL AREA CALCULATIONS:

(SEE LANDSCAPE PLAN FOR PLANTING LOCATIONS)

TOTAL PROPERTY AREA	= 0.00 ACRES
TOTAL PROPOSED IMPERVIOUS	= 0.00 SQFT
TOTAL PROPERTY AREA WITHIN THE LDA	= 0.00 ACRES (000 SQFT)
TOTAL PROPERTY AREA WITHIN THE RCA	= 00 ACRES (000 SQFT)
LOT COVERAGE WITHIN LDA	= 0 % (0 SQFT / 00 SQFT)
LOT COVERAGE WITHIN RCA	= 0% (00 SQFT / 00 SQFT)
FORESTED AREA WITHIN LDA	= 0.00 ACRES (00% COVERAGE)
FORESTED AREA WITHIN RCA	= 0.00 ACRES (00% COVERAGE)
PROPOSED LDA FOREST CLEARING	= 0.0 ACRES
PROPOSED RCA FOREST CLEARING	= 0.00 ACRES / 0.00 SF

PLANTING MITIGATION REQUIRED = 0.00 SF

MITIGATION CREDIT RATIO (PER TABLE 2, GREEN BOOK):

CANOPY TREE, 2' CAL. MIN.	= 200 SF
CANOPY TREE, 3/4' CAL. MIN.	= 100 SF
UNDER STORY TREE, 3/4' CAL. MIN.	= 75 SF
LARGE SHRUB, 4-FT HGT.	= 50 SF
SMALL SHRUB, 18" HGT.	= 25 SF

PROPOSED PLANTING MITIGATION WITHIN CRITICAL AREA = 0.00 SF

CANOPY TREE	= 00 TREES X 200 SF = 00.00 SF
CANOPY TREE	= 00 TREES X 100 SF = 00.00 SF
UNDER STORY TREE	= 00 TREES X 75 SF = 00.00 SF
LARGE SHRUB	= 00 SHRUBS X 50 SF = 00.00 SF
SMALL SHRUB	= 00 SHRUBS X 25 SF = 00.00 SF

FOREST CONSERVATION NOTES:

1. ADDRESS: JUG BAY EDUCATION, RESEARCH AND DISCOVERY FIELD STATION, 6032 PINDELL ROAD LOTHIAN MARYLAND 20711
2. OWNER: ANNE ARUNDEL COUNTY DEPARTMENT OF RECREATION AND PARKS, PO BOX 2660, ANNAPOLIS, MD 21404
3. PROPERTY INFORMATION: MAP 75, GRID 18, PARCEL 0006, 302.78 ACRES
4. EXISTING IMPERVIOUS AREA = 0 SQ.FT., 0 ACRES. THE PROJECT IS NOT LOCATED IN A PRIORITY FUNDING AREA (PFA).

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

SIGNATURE: _____

DATE: _____

BID SET

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License # 27734, Expiration Date: 07/12/24

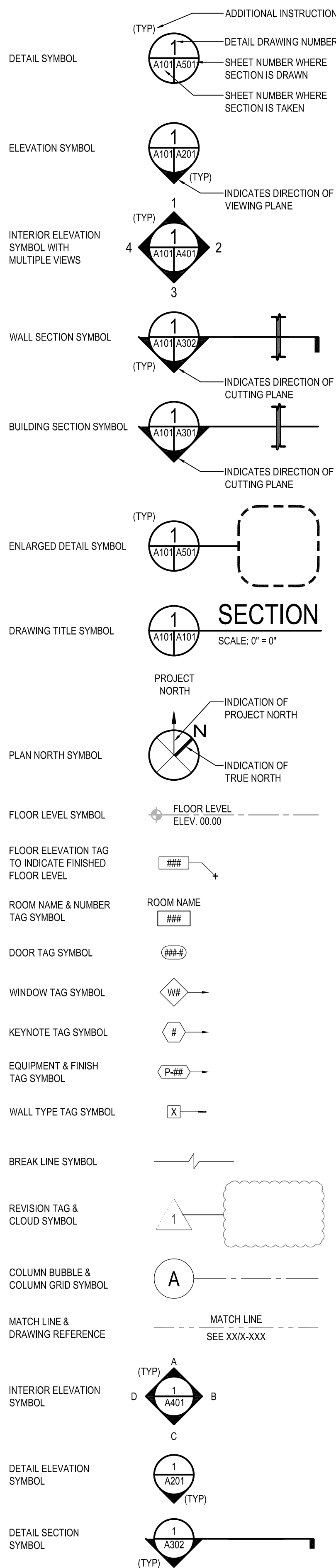
REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			
APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS SHOWN	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION FOREST CONSERVATION NOTES AND DETAILS C902
CHEIE ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: R.S.S.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: R.W.H.	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 26 OF 63	
		PROJECT NO.: P584501	
		CONTRACT NO.: P584500	

GENERAL NOTES & CONDITIONS

- GENERAL NOTES FOUND ON THIS SHEET APPLY TO ALL ARCHITECTURAL DRAWINGS
- 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.
- THE INTENT OF THESE DRAWINGS IS FOR THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIAL, FINISHES, EQUIPMENT, INSTALLATION AND SERVICES NECESSARY FOR AND INCIDENTAL WITH THE WORK, TO PROVIDE THE OWNER WITH A COMPLETE PROJECT INCLUSIVE OF ALL SYSTEMS.
- ACTUAL FIELD CONDITIONS MAY VARY FROM THOSE INDICATED. SHOULD ACTUAL CONDITIONS DIFFER FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN WORK OF THE CONTRACTOR PROVIDED FOR IN THE CONTRACT, THE CONTRACTOR SHALL PROMPTLY, BEFORE CONDITIONS ARE DISTURBED, NOTIFY THE OWNER'S MANAGER. FAILURE TO DO SO MAY WAIVE THE CONTRACTORS RIGHT TO RECEIVE ADDITIONAL TIME OR CONSIDERATION DUE TO SUCH CONDITIONS.
- PRIOR TO INITIATING ANY PORTION OF THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE ALL PORTIONS OF THE CONTRACT DOCUMENTS RELATING TO THAT PORTION OF THE WORK AND AFFECTING ADJOINING PORTIONS. IF DISCREPANCIES EXIST, THEY SHALL BE REPORTED TO THE ENGINEER AND OWNER FOR CLARIFICATION AND/OR RESOLUTION BEFORE COMMENCING SUCH WORK.
- BY SUBMITTING A BID PROPOSAL, THE CONTRACTOR CERTIFIES THAT THEY HAVE VISITED THE SITES AND UNDERSTAND THE COMPLETE SCOPE OF WORK, WHICH IS INCLUDED IN THE PROPOSAL.
- DEFINITIONS: "PROVIDE" MEANS "FURNISH AND INSTALL". "VERIFY" MEANS "VERIFY IN THE FIELD AND COORDINATE DIMENSIONS AND DISCREPANCIES."
- THESE NOTES AND OTHER NOTES ON THE DRAWINGS ARE DIRECTIONS FOR THE CONTRACTOR'S PERFORMANCE, UNLESS NOTED OTHERWISE (U.N.O.). FOR EXAMPLE, THE VERB "INSTALL" MEANS "CONTRACTOR SHALL INSTALL"; "RELOCATE" MEANS "CONTRACTOR SHALL RELOCATE"; ETC.
- UNLESS NOTED OTHERWISE, NUMBERED DIMENSIONS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER SCALED DRAWINGS. ALL DIMENSIONS TO BE FIELD VERIFIED.
- DIMENSIONS OF OPENINGS SHALL BE COORDINATED BY CONTRACTOR WITH EQUIPMENT REQUIRED. SHOP DRAWINGS SHALL INCLUDE A SCHEDULE OF ACTUAL OPENING DIMENSIONS AS VERIFIED IN FIELD.
- DURING THE WORK, ANY CONDITION UNCOVERED THAT CAUSES CONFLICT WITH THE INTENDED DESIGN MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- CONTRACTOR SHALL STAGE WORK IN SUCH A WAY AS TO ENSURE SAFE EMERGENCY EGRESS AT ALL TIMES.
- THE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES. CONTRACTOR TO CONTACT ARCHITECT AND OWNER IF THESE ITEMS ARE APPARENT OR SUSPECTED.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AND FAMILIARIZE THEMSELVES WITH ACTUAL FIELD CONDITIONS ASSOCIATED WITH WORK UNDER THIS CONTRACT PRIOR TO SUBMITTING THEIR BID.
- 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.
- PROVIDE ALL NECESSARY COMPONENTS FOR U.L. LISTED THROUGH PENETRATION SYSTEM AT RATED FLOORS, CEILINGS AND WALL PENETRATIONS IN ORDER TO MAINTAIN THE THE REQUIRED ASSEMBLY RATINGS. RATED WALLS AND OPENINGS NOTED ON PLANS.
- UNLESS OTHERWISE INDICATED ALL PIPING, CONDUIT, DUCTWORK AND SIMILAR SERVICES SHALL BE CONCEALED. ALL EXPOSED ELECTRICAL CONDUIT, PIPING, WIRING AND HVAC EQUIPMENT SHALL BE LOCATED TO MINIMIZE VISIBILITY IN AREAS EXPOSED TO STRUCTURE. WHERE CONDUIT CANNOT BE CONCEALED IN WALLS, FLOORS, ETC, RUN CONDUIT, PIPE AND WIRING ADJACENT TO COLUMNS VERTICALLY AND BEAMS HORIZONTALLY. MINIMIZE EXPOSURE TO THE GREATEST EXTENT POSSIBLE. PAINT ALL EXPOSED MATERIALS TO MATCH SUBSTRATE FOR ALL EXPOSED CONDUIT ALONG WALLS RUN IN DIRECTION TO MINIMIZE EXPOSURE.
- CONSTRUCTION NOTES SPECIFICALLY REFER TO ITEMS NOTED WITH NUMBER OR LETTER DESIGNATIONS ON THE RESPECTIVE DRAWINGS WHERE THE DESIGNATIONS ARE SHOWN.
- MOISTURE RESISTANT GYPSUM BOARD AT ALL TOILET ROOM, JANITOR'S CLOSETS, KITCHENS AND LOCATIONS WHERE MILLWORK IS SHOWN WITH SINK, TYPICAL.
- WATER RESISTANT GYPSUM BOARD AT SHOWER, TYPICAL AT ALL WALLS AND CEILING.
- PROVIDE SEMI RECESSED EXTINGUISHER CABINETS AND EXTINGUISHER AS REQUIRED BY NFPA 10. REFER TO LIFE SAFETY PLAN FOR DETAILS.
- ALL TOILET SIZES VARY BASED UPON ICC A117.1-2009 REQUIREMENTS REFER TO SHEET A401 FOR ENLARGED PLANS AND INTERIOR ELEVATIONS.
- ALL PARTITIONS NOT DESIGNATED, TO BE CONSIDERED WALL TYPE "A".
- ALL DIMENSIONS, NOTES, FINISHES AND FIXTURES SHOWN ON TYPICAL FLOOR PLANS, SECTIONS, OR DETAILS SHALL APPLY TO ALL SIMILAR, SYMMETRICAL OR OPPOSITE HAND PLANS, SECTIONS OR DETAILS.
- ALL DOOR JAMBS SHALL BE LOCATED 2" FROM INTERSECTING WALL, UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE AND INSTALL EXIT SIGNS AND EMERGENCY LIGHTING AS REQUIRED BY APPLICABLE CODES. REFER TO DRAWINGS HEREIN FOR LOCATIONS AND DETAILS.
- GC TO COORDINATE FLOOR DRAIN LOCATION WITH PLUMBING DRAWINGS. CONCRETE TO BE SLOPED TO FLOOR DRAINS, TYP.
- INTERIOR DIMENSIONS SHOWN ARE TO FINISH FACE OF WALL, UNLESS NOTED OTHERWISE.
- GENERAL CONTRACTOR TO VERIFY ALL EXISTING UTILITIES
- ALL ACCESSORIES TO RECEIVE IN WALL BLOCKING FOR ATTACHMENT.
- ALL EXTERIOR WOOD TO BE PRESSURE TREATED.
- IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT SHOP DRAWINGS. IF THE CONTRACTOR FAILS TO SUBMIT REQUIRED SHOP DRAWINGS, THE ARCHITECT WILL NOT BE RESPONSIBLE.

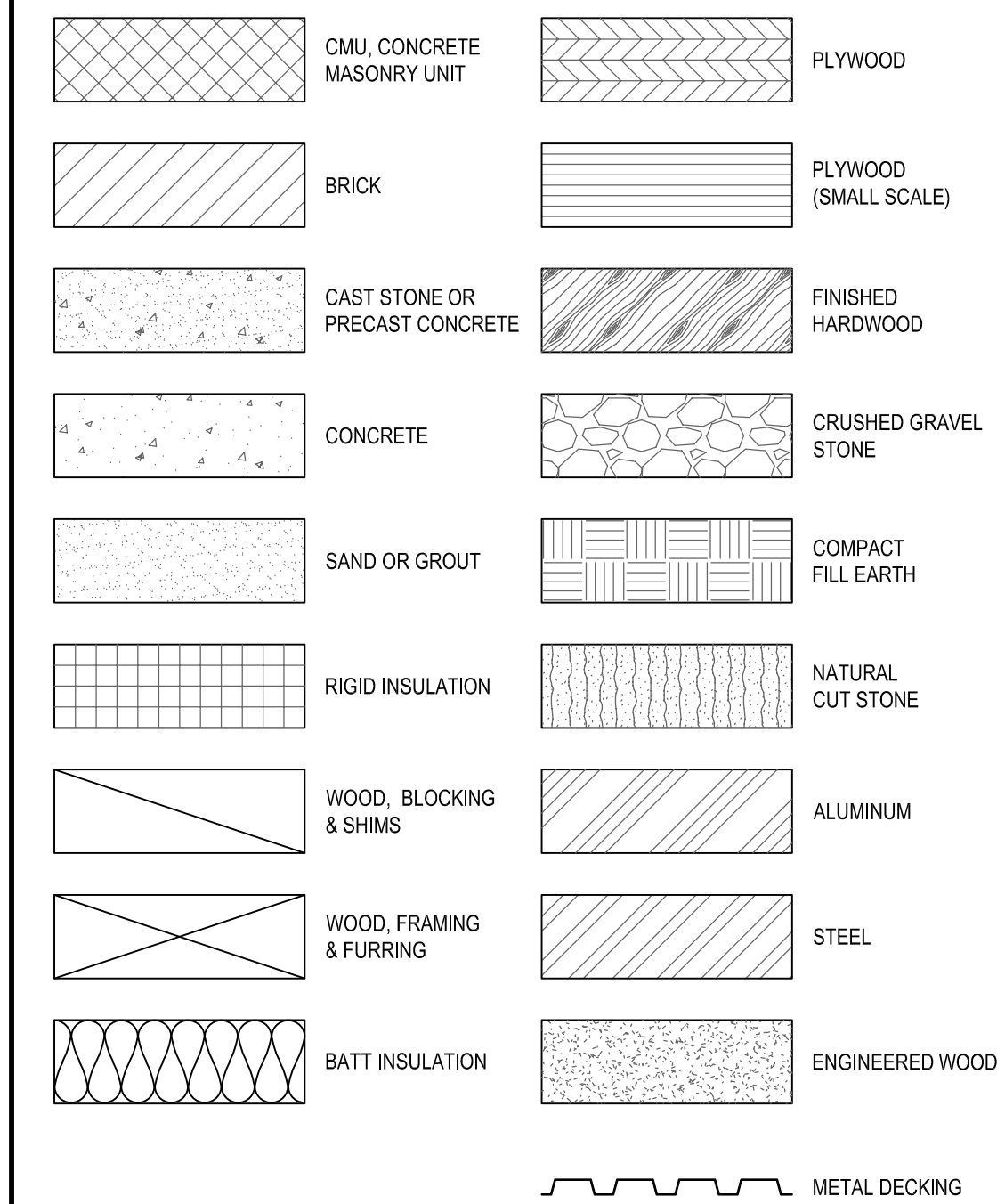
DETAIL SYMBOLS



ABBREVIATIONS

A/C	AIR CONDITION	FIN	FINISH	PLAM	PLASTIC LAMINATE
ACC	ACCESSIBLE	FIXT	FIXTURE	PLAS	PLASTIC
ACOUS INSUL	ACOUSTICAL INSULATION	FLR	FLOOR	PLYWD	PLYWOOD
ACT	ACOUSTICAL CEILING TILE	FLR FIN	FLOOR FINISH	PREFAB	PREFABRICATE
ADDL	ADDITIONAL	FLUOR	FLUORESCENT	PREFIN	PREFINISH
ADH	ADHESIVE	FO	FINISHED OPENING	PREP	PREPARATION
ADJ	ADJACENT, ADJOINING, ADJUSTABLE	FRP	FIBERGLASS REINFORCED PLASTIC	PT	PAINT, PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	FRZ	FREEZER	QRY	QUARRY
ALT	ALTERNATE	FT	FEET, FIRE TREATED, FOOT	QT	QUARRY TILE
ALUM	ALUMINUM	FURN	FURNISH, FURNITURE	R	RADIUS, RISER
ANOD	ANODIZE	GA	GAGE	RB	RUBBER BASE
APPROX	APPROXIMATE	GALV	GALVANIC, GALVANIZED	RD	ROAD, ROOF DRAIN
ARCH	ARCHITECT	GC	GENERAL CONTRACTOR	RECT	RECTANGLE
AV	AUDIO VISUAL	GL	GLASS	REF	REFERENCE, REFRIGERATOR
BATT	BATTEN	GLZ	GLAZING	REINF	REINFORCE
BLDG	BUILDING	GYP	GYPSUM	REQD	REQUIRED
BLKHD	BULKHEAD	HC	HANDICAP	REV	REVISION
BOT	BOTTOM	HDPE	HIGH DENSITY POLYETHYLENE	RFI	REQUEST FOR INFORMATION
CB	CERAMIC BASE	HDW	HARDWARE	RH	RIGHT HAND
CER	CERAMIC	HM	HOLLOW METAL	RM	ROOM
CG	CORNER GUARD	HORIZ	HORIZONTAL	RO	ROUGH OPENING
CJ	CONSTRUCTION JOINT, CONTROL JOINT	HT	HEIGHT	RT	RIGHT
CL	CENTER LINE	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	S	SOUTH
CLR	CLEAR, COLOR	INSTL	INSTALL	SC	SOLID CORE
CMU	CONCRETE MASONRY UNIT	INSUL	INSULATION	SCHED	SCHEDULE
COL	COLUMN	INT	INTERIOR	SCWD	SOLID CORE WOOD DOOR
CONC	CONCRETE	JAN	JANITOR	SF	SQUARE FOOT (FEET)
CONF	CONFERENCE	L	ANGLE, LITER	SHT	SHEET
CONT	CONTINUE	LAM	LAMINATE	SIM	SIMILAR
COORD	COORDINATE	LAV	LAVATORY	SPEC	SPECIFICATION
CORR	CORRIDOR	LBS	POUND	SQ	SQUARE
CPT	CARPET	LED	LIGHT EMITTING DIODE	STC	SOUND TRANSMISSION CLASS
CT	CERAMIC TILE	LH	LEFT HAND	STOR	STORAGE
CTR	CENTER	LIN	LINEAR	STRUCT	STRUCTURAL
CYL	CYLINDER	MAINT	MAINTENANCE	SUSP	SUSPEND
D	DEEP, DEPTH	MATL	MATERIAL	SYM	SYMBOL
DEMO	DEMOLITION	MAX	MAXIMUM	T	TREAD
DF	DRINKING FOUNTAIN	MECH	MECHANICAL	TEL	TELEPHONE
DIA	DIAMETER	MEL	MELAMINE	TEMP	TEMPORARY
DIM	DIMENSION	MFR	MANUFACTURER	THK	THICKNESS
DIR	DIRECTION	MID	MIDDLE	THRES	THRESHOLD
DISP	DISPENSER	MIN	MINIMUM, MINUTE	THRU	THROUGH
DIST	DISTANCE	MIRR	MIRROR	TK BD	TACKBOARD
DIV	DIVIDE, DIVISION	MISC	MISCELLANEOUS	TMPD GL	TEMPERED GLASS
DS	DOWNSPOUT	MO	MASONRY OPENING	TV	TELEVISION
DW	DISHWASHER	MOD	MODIFY	TYP	TYPICAL
DWG	DRAWING	MTL	METAL	UL	UNDERWRITERS LABORATORIES
E	EAST	N	NORTH	UNO	UNLESS NOTED OTHERWISE
EA	EACH	NA	NOT APPLICABLE	UTIL	UTILITY
EL	ELEVATION	NAR	NARROW	VAR	VARIATION, VARIES
ELEC	ELECTRIC	NIC	NOT IN CONTRACT	VB	VINYL BASE
ELEV	ELEVATION	NOM	NOMINAL	VCT	VINYL COMPOSITION TILE
EQ	EQUAL	NTS	NOT TO SCALE	VERT	VERTICAL
EQUIP	EQUIPMENT	OC	ON CENTER	VIF	VERIFY IN FIELD
EQUIV	EQUIVALENT	OCC	OCCUPY	W	WEST, WIDE
EW	EACH WAY	OD	OUTSIDE DIAMETER	W/	WITH
EXIST	EXISTING	OF	OWNER FURNISHED/CONTRACTOR INSTALLED	W/O	WITHOUT
EXT	EXTERIOR, EXTERNAL	OFF	OFFICE	WB	WOOD BASE
FD	FLOOR DRAIN	OF/OI	OWNER FURNISHED/OWNER INSTALLED	WC	WALL COVERING, WATER CLOSET
FE	FIRE EXTINGUISHER	OH	OVERHANG	WD	WOOD
FEC	FIRE EXTINGUISHER CABINET	OPH	OPPOSITE HAND	WH	WATER HEATER
FF	FINISH FACE	OPNG	OPENING	WLD	WELDED
FF EL	FINISH FLOOR ELEVATION	OPP	OPPOSITE	WM	WIRE MESH
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT			WT	WEIGHT

MATERIALS



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NO.	DESCRIPTION	BY	DATE

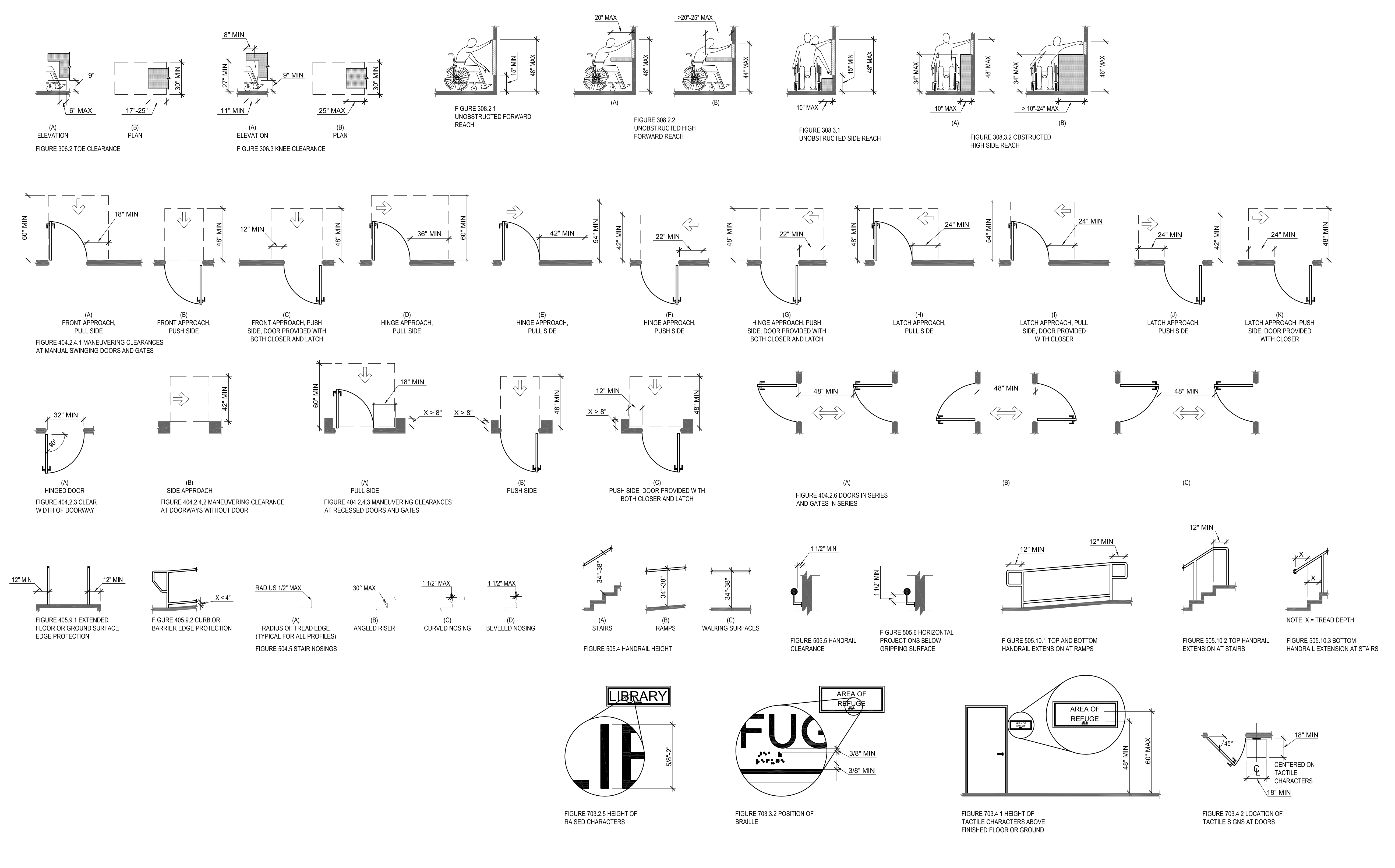
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CHECKED BY:	B.F.	GENERAL NOTES, ABBREVIATIONS & SYMBOLS	
SHEET NO. 27	OF 63	A001	
PROJECT NO.:	P584501		
CONTRACT NO.:	P584500		

LEGEND	
CONVENTION	DESCRIPTION
	DIMENSION SHOWING ENGLISH UNITS IN INCHES UNLESS OTHERWISE SPECIFIED, ABOVE THE LINE.
	DIMENSION FOR SMALL MEASUREMENTS
	DIMENSION SHOWING A RANGE WITH MINIMUM - MAXIMUM
MIN.	MINIMUM
MAX.	MAXIMUM
>	GREATER THAN
≥	GREATER THAN OR EQUAL TO
<	LESS THAN
≤	LESS THAN OR EQUAL TO
	BOUNDARY OF CLEAR FLOOR SPACE OR MANEUVERING CLEARANCE
	CENTERLINE
	A PERMITTED ELEMENT OR ITS EXTENSION
	DIRECTION OF TRAVEL OR APPROACH
	A WALL, FLOOR, CEILING OR OTHER ELEMENT CUT IN SECTION OR PLAN
	A HIGHLIGHTED ELEMENT IN ELEVATION OR PLAN
	LOCATION ZONE OF ELEMENT CONTROL OR FEATURE

GENERAL NOTE

1. ALL FIGURES ARE TAKEN FROM THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

1. ALL FIGURES SHOWN DEPICT COMMON DESIGN EXAMPLES AND SOME FIGURES MAY NOT NECESSARY APPLY TO THE SUBMITTED DRAWINGS.



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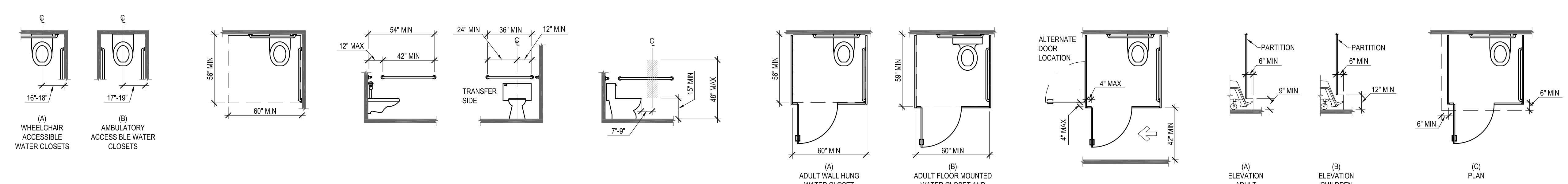


FIGURE 604.2 WATER CLOSET LOCATIONS FIGURE 604.3.1 SIZE OF CLEARANCE AT WATER CLOSETS FIGURE 604.5.1 SIZE WALL GRAB BAR AT WATER CLOSETS FIGURE 604.3.2 REAR WALL GRAB BAR AT WATER CLOSETS FIGURE 604.7 DISPENSER OUTLET LOCATIONS FIGURE 604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT FIGURE 604.8.1.2 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS FIGURE 604.8.1.4 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

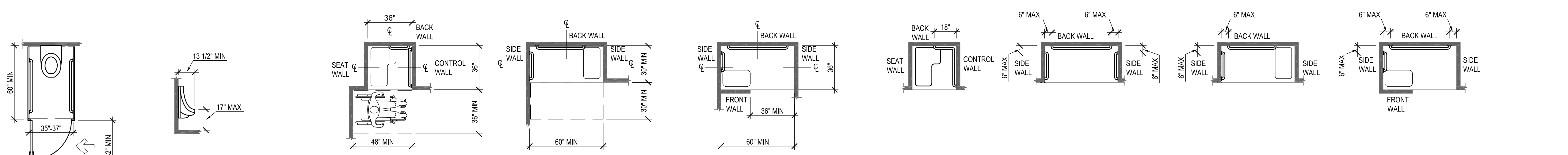


FIGURE 604.8.2 AMBULATORY ACCESSIBLE TOILET COMPARTMENT FIGURE 605.2 HEIGHT AND DEPTH OF URINALS FIGURE 608.2.1 TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE FIGURE 608.2.2 ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE FIGURE 608.2.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE FIGURE 608.3.1 GRAB BARS FOR TRANSFER TYPE SHOWERS FIGURE 608.3.2 GRAB BARS FOR STANDARD ROLL-IN TYPE SHOWERS FIGURE 608.3.3 GRAB BARS FOR ALTERNATE ROLL-IN TYPE SHOWERS

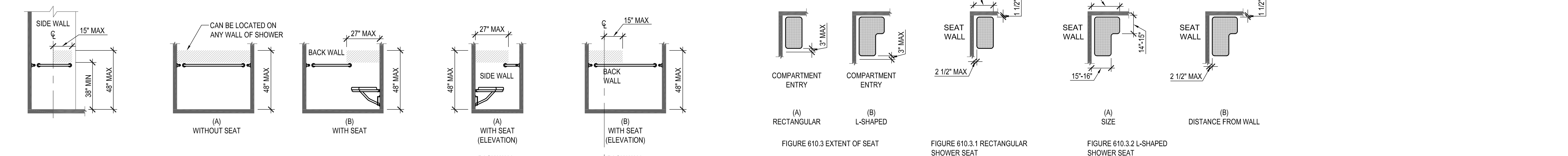


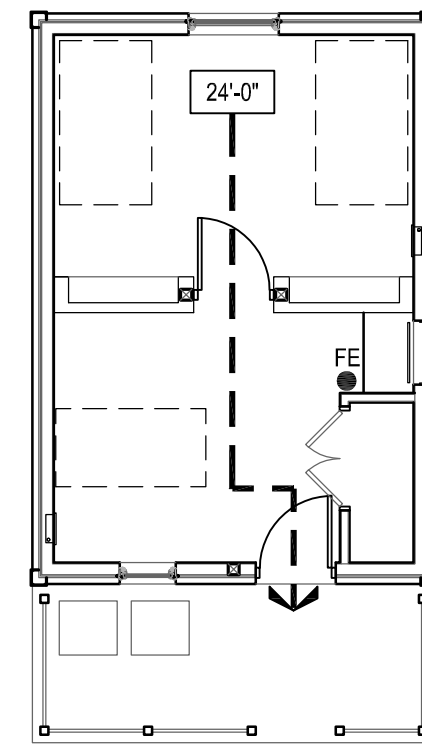
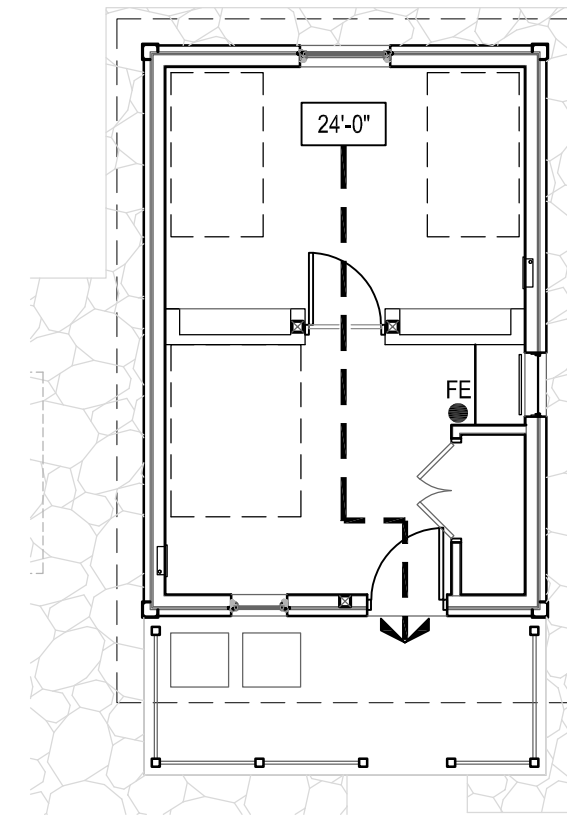
FIGURE 608.5.1 TRANSFER TYPE SHOWER COMPARTMENT CONTROL LOCATION FIGURE 608.5.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENT CONTROL LOCATION FIGURE 610.3 EXTENT OF SEAT FIGURE 610.3.1 RECTANGULAR SHOWER SEAT FIGURE 610.3.2 L-SHAPED SHOWER SEAT



FIGURE 608.5.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT CONTROL LOCATION

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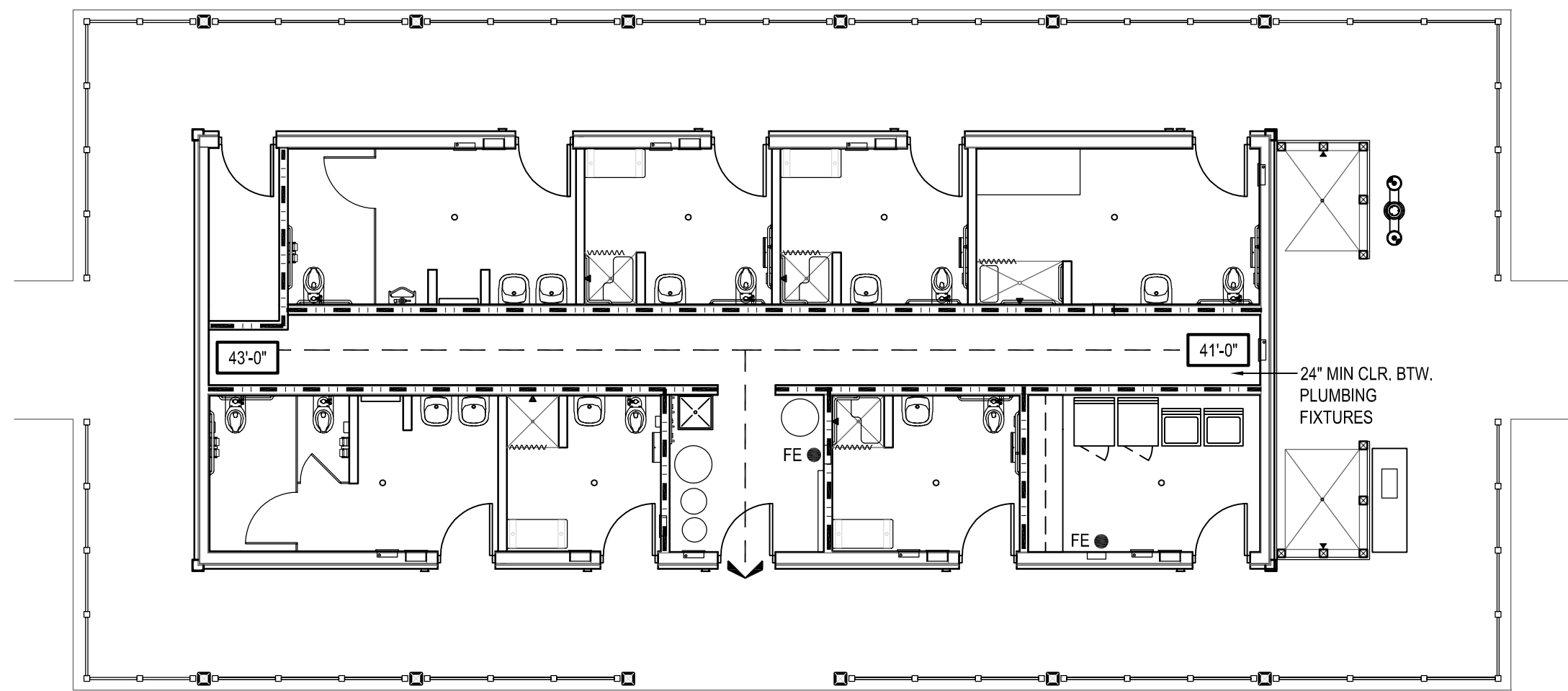
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LIFE SAFETY LEGEND:	
● FE	RECESSED WALL MOUNTED FIRE EXTINGUISHER. REFER TO DETAIL 10 AND 11 ON SHEET A404 FOR DETAILS.
- - - - ->	PATH OF TRAVEL TO EXIT
#F	TRAVEL DISTANCE TO EXIT
■ ■ ■ ■ ■	1 HR RATED WALL CONSTRUCTION

1 LIFE SAFETY PLAN - TYPICAL CABIN
SCALE: 1/8"=1'-0"

2 LIFE SAFETY PLAN - ADA CABIN
SCALE: 1/8"=1'-0"



3 LIFE SAFETY PLAN - BATHHOUSE
SCALE: 1/8"=1'-0"

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							CONTRACT NO.: P584500	

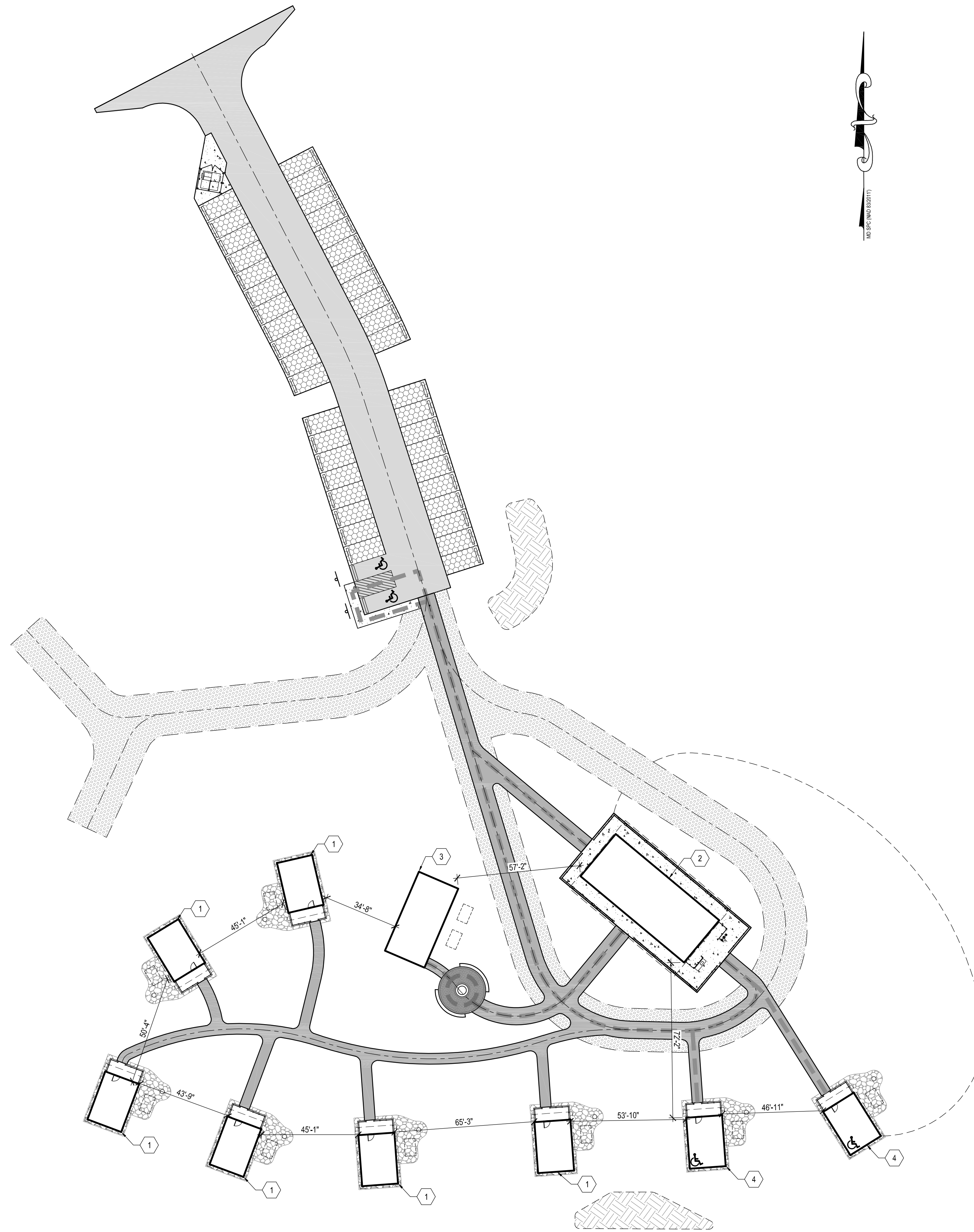
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GENERAL SHEET NOTES

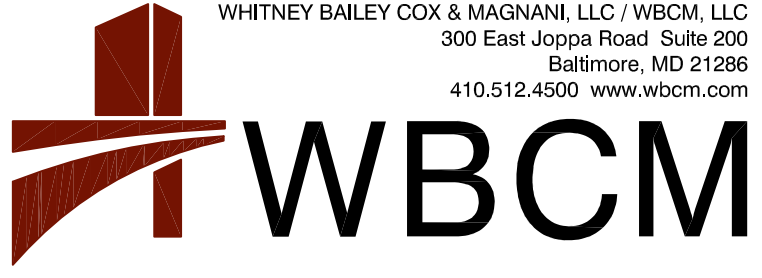
1. FOR EXACT LOCATION OF BUILDINGS REFER TO CIVIL PLANS. PURPOSE OF ARCHITECTURAL SITE PLAN IS TO SHOW APPROXIMATE DISTANCES BETWEEN BUILDING ON SITE ARE IN ACCORDANCE WITH THE CODE REVIEW ON SHEET A003 AND IBC TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE.

SHEET KEYNOTES

1. NEW MULTI-UNIT CABIN, SEE A101 FOR DETAILS.
2. NEW BATHHOUSE, SEE A201 FOR DETAILS.
3. PRE-FABRICATED PAVILION, REFER TO SPECS FOR DETAILS.
4. ADA CABIN, REFER TO CIVIL DRAWINGS FOR DETAILS.



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		NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE
				CHIEF ENGINEER _____ DATE	PROJECT MANAGER _____ DATE	SCALE: DRAWN BY: A.D.M. CHECKED BY: B.F. SHEET NO. 32 OF 63 PROJECT NO.: P584501 CONTRACT NO.: P584500		JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION ARCHITECTURAL SITE PLAN A100	

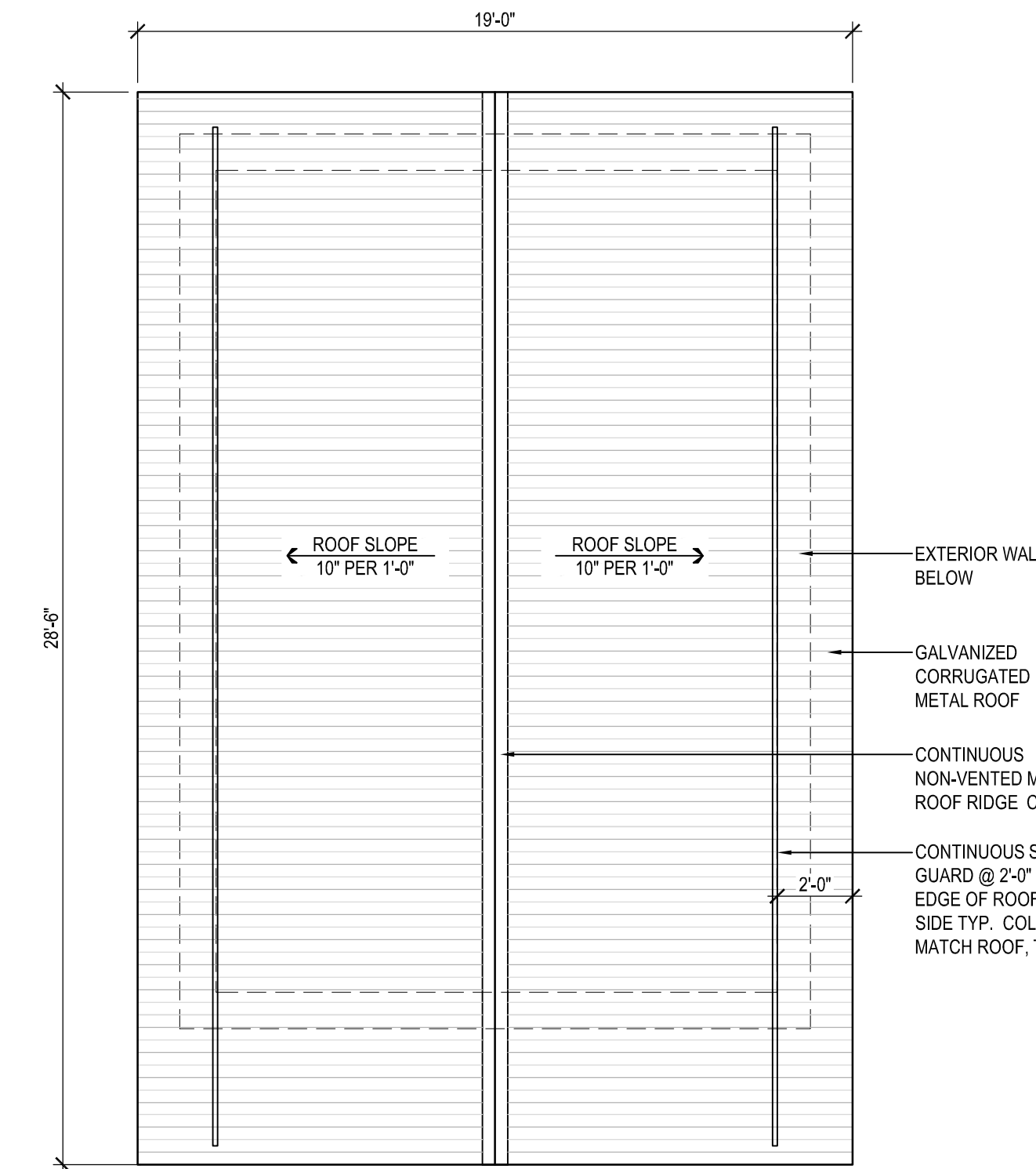
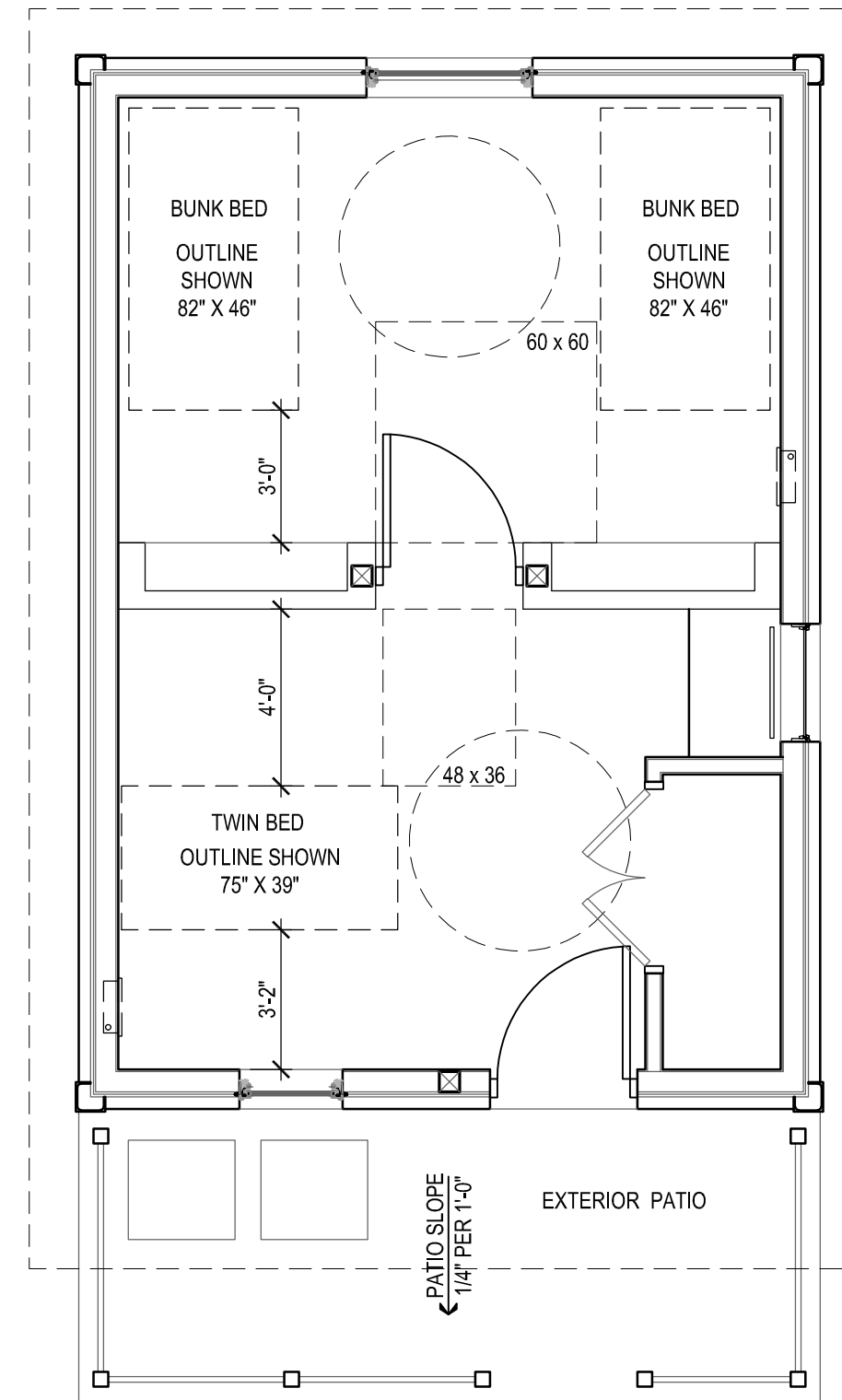
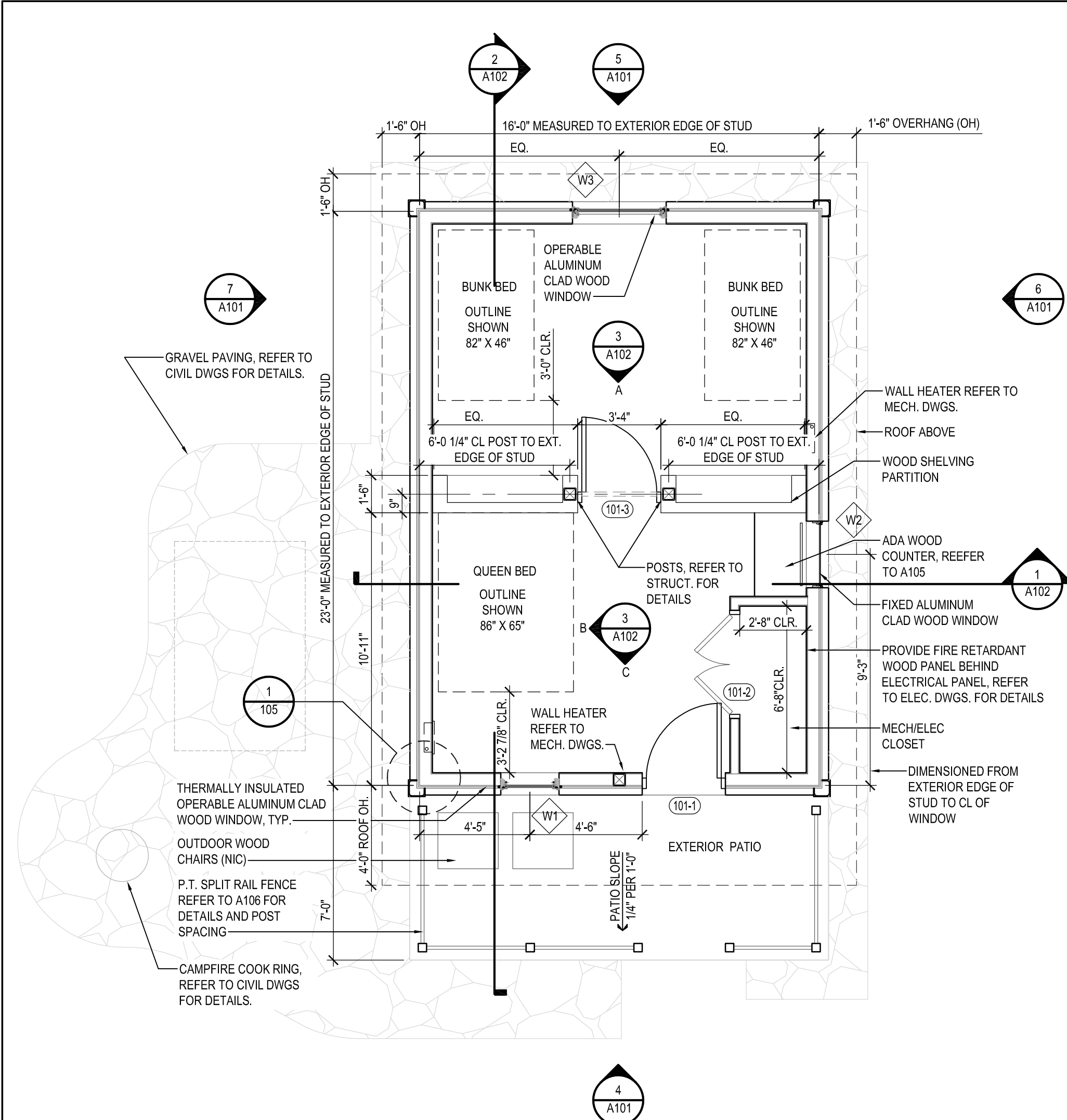
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GENERAL NOTES

- REFER TO G SERIES FOR ARCHITECTURAL GENERAL NOTES
- GENERAL CONTRACTOR TO COORDINATE ALL TRADES.
- CONTRACTOR TO VERIFY ALL MEASUREMENTS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- INTERIOR DIMENSIONS SHOWN ARE TO FINISH FACE OF WALL, UNLESS NOTED OTHERWISE.
- EXTERIOR WINDOWS ARE DIMENSIONED TO CENTERLINE OF THE WINDOW.
- CONTRACTOR TO PROVIDE A FIRE EXTINGUISHER IN EACH CABIN
- ALL EXTERIOR WOOD INCLUDING POSTS, RAILS, SOFFITS, TRIM, ETC. TO BE PRESSURE TREATED, TYP.
- FOR CABIN ORIENTATION REFER TO CIVIL PLANS, NORTH ARROW SHOWN ON THIS SHEET USED ONLY TO LOCATE FINISHES ON FINISH SCHEDULE.
- OWNER PROVIDED FURNITURE TO COMPLY WITH CLEARANCES SHOWN, FF&E BY OTHERS.

EXTERIOR FINISH LEGEND

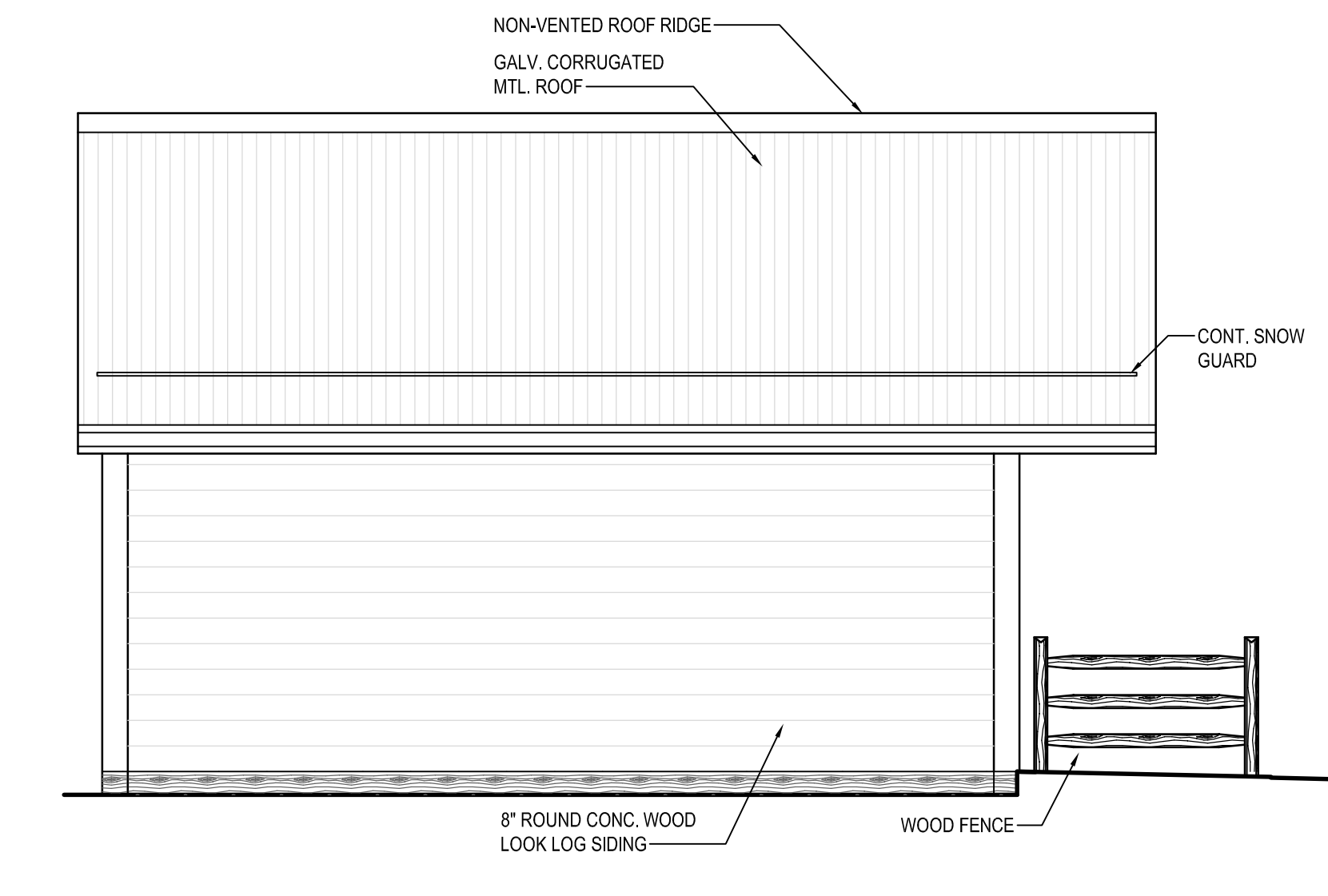
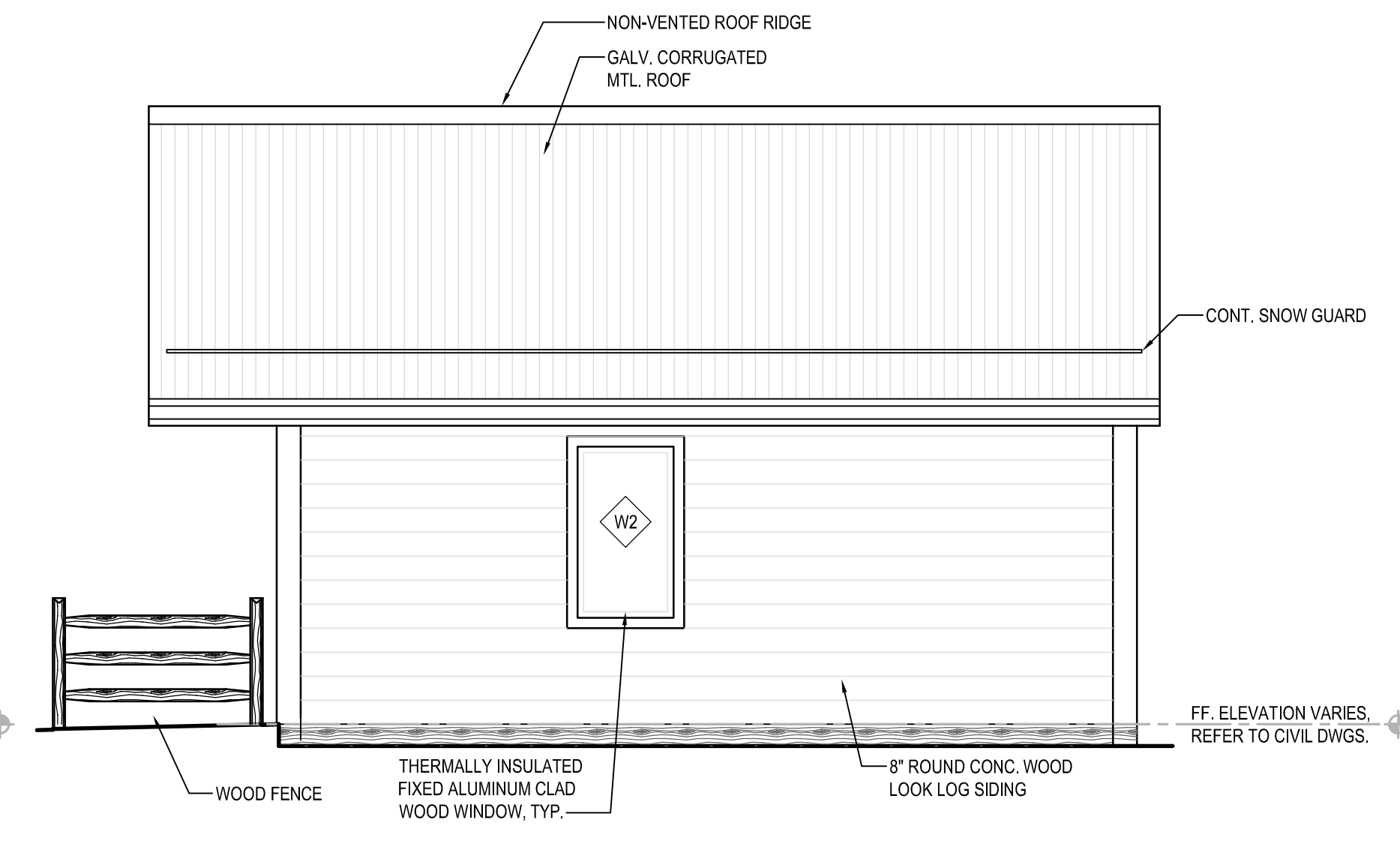
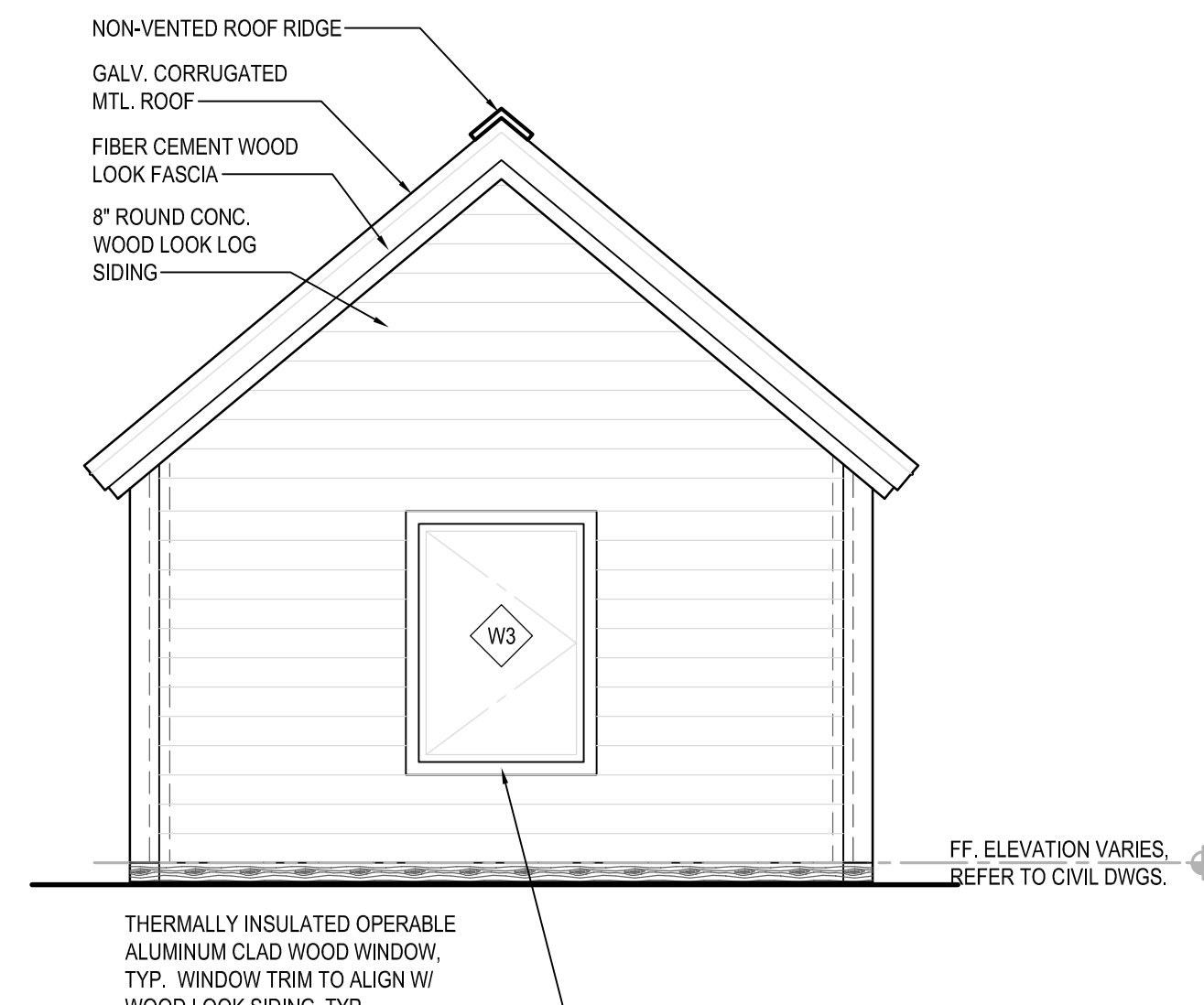
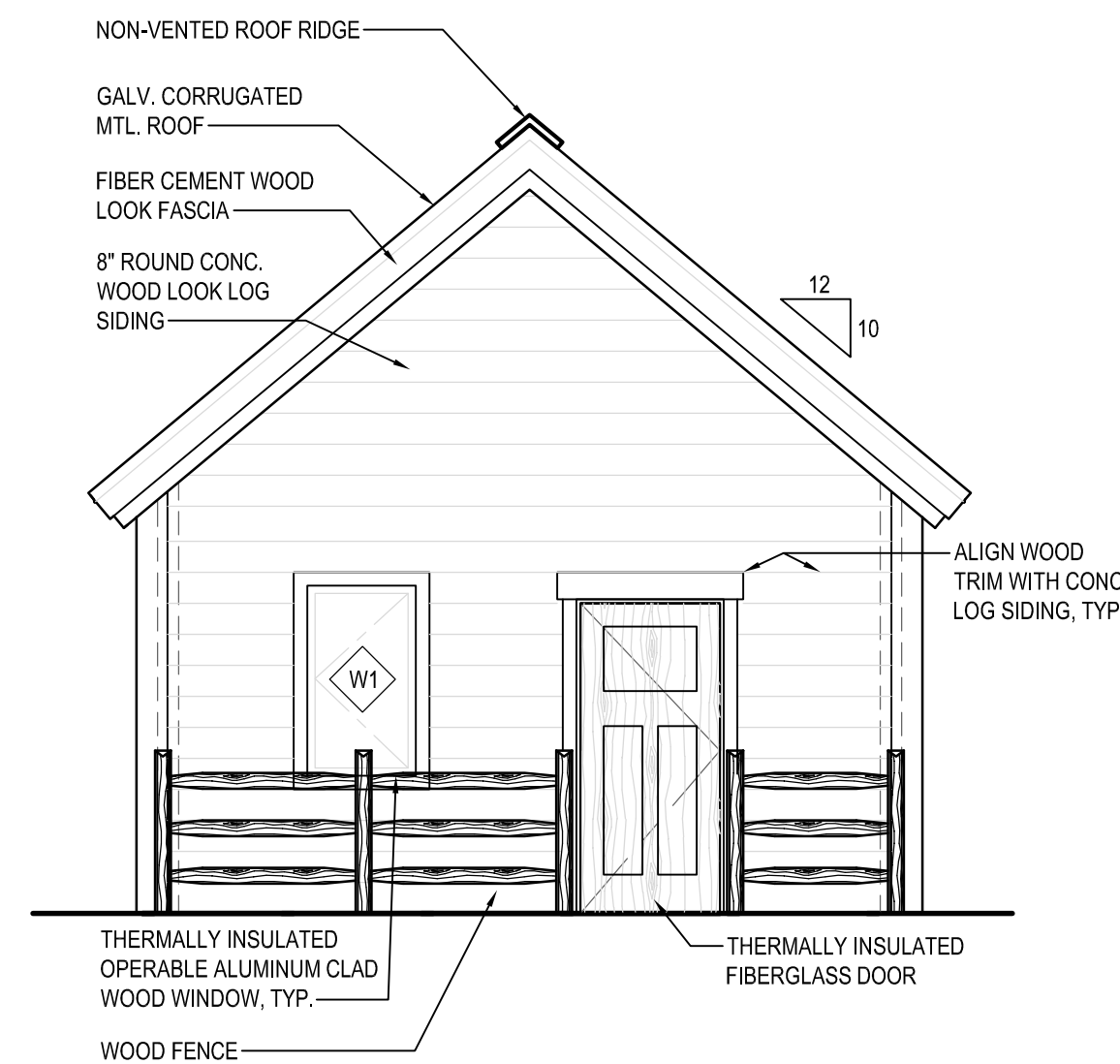
- | | |
|-------------------------------------|---|
| 1. ROOF | CORRUGATED METAL ROOF, MILL FINISH. |
| 2. CONCRETE LOG SIDING | 8" ROUND CONC. WOOD LOOK LOG SIDING
BASIS OF DESIGN: EVERLOG SYSTEMS
COLOR: NATURAL BROWN |
| 3. FASCIA: HARDI TRIM BOARDS | COLOR: SOMBER BROWN 0081
FINISH: SELECT CEDARMILL |
| 4. SOFFIT: HARDIESOFFIT PANELS | COLOR: SOMBER BROWN 0081;
FINISH: NON VENTED AND VENTED SELECT CEDARMILL |
| 4. WINDOW AND DOOR TRIM: HARDI TRIM | COLOR: ARIZONA DESERT |
| 6. DOOR FINISH | BASIS OF DESIGN: PELLA FIBERGLASS DOORS
COLOR: PRE-FINISHED PAINT OR STAIN, ARCHITECT TO SELECT FROM FULL RANGE OF PREFINISHED STAINS AND PAINTS |
| 7. WOOD FENCE, SHOWER ENCLOSURE | EXTERIOR SEMI-TRANSPARENT STAIN,
BASIS OF DESIGN: BENJAMIN MOORE
ARBORCOAT, COLOR: ALEXANDRA BEIGE |



1 CABIN FLOOR PLAN
SCALE: 1/4"=1'-0"

2 ADA CABIN PLAN
SCALE: 1/4"=1'-0"
NOTE: ADA CABIN DIMENSIONS/DOORS AND WINDOWS ARE SAME AS SHOWN IN PLAN 1/A101. ONLY FURNITURE LAYOUT HAS CHANGED

3 CABIN ROOF PLAN
SCALE: 1/4"=1'-0"

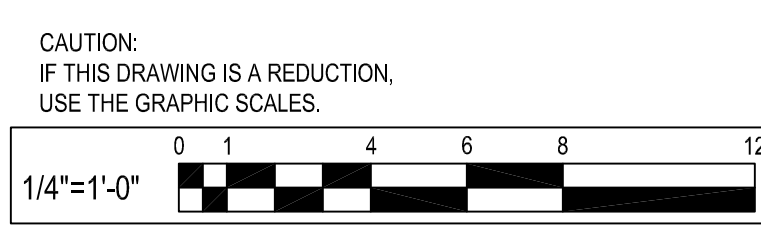


4 CABIN FRONT ELEVATION
SCALE: 1/4"=1'-0"

5 CABIN BACK ELEVATION
SCALE: 1/4"=1'-0"

6 CABIN SIDE ELEVATION
SCALE: 1/4"=1'-0"

7 CABIN SIDE ELEVATION
SCALE: 1/4"=1'-0"



CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.



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Baltimore, MD 21286
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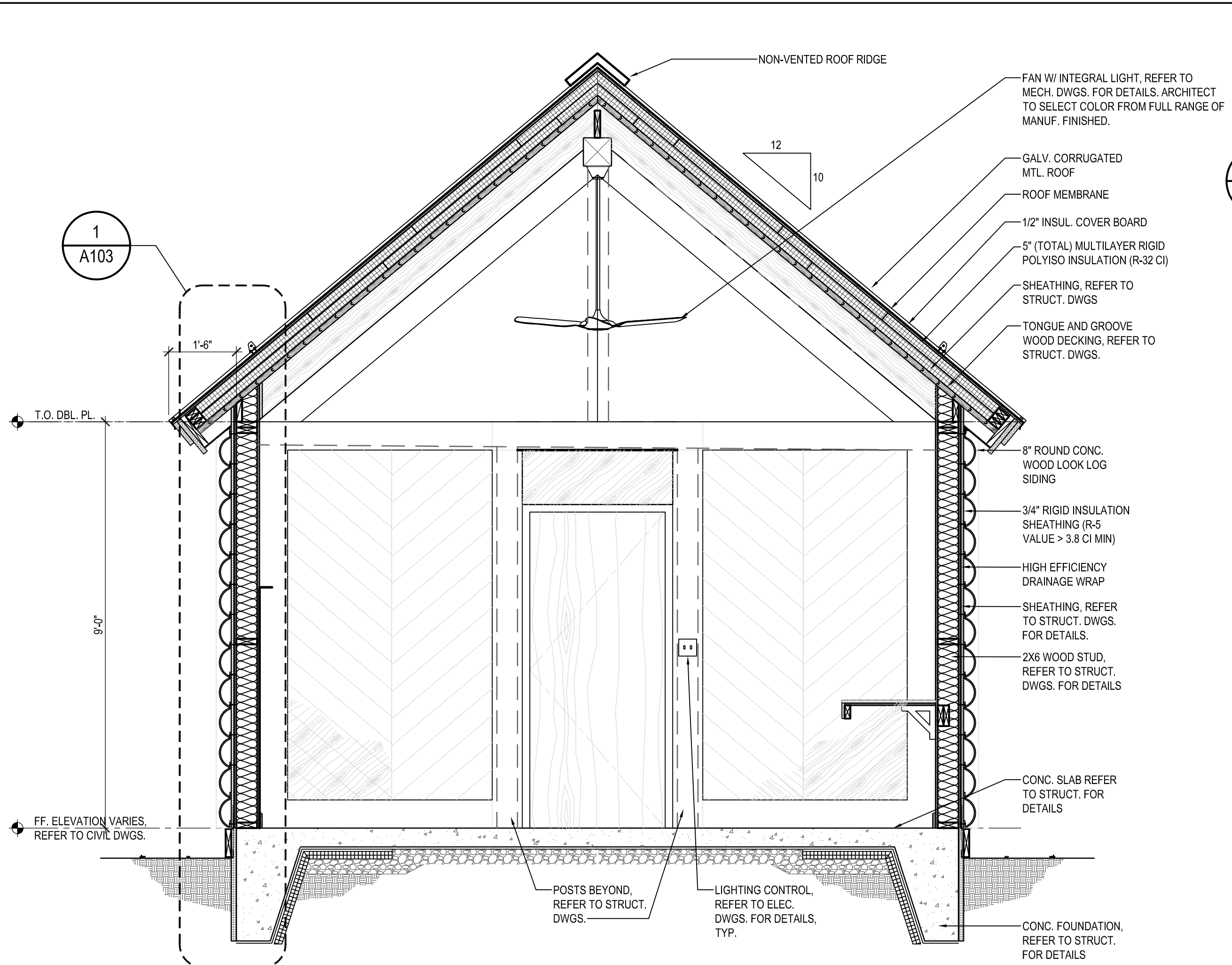
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NO.	DESCRIPTION	BY	DATE

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	

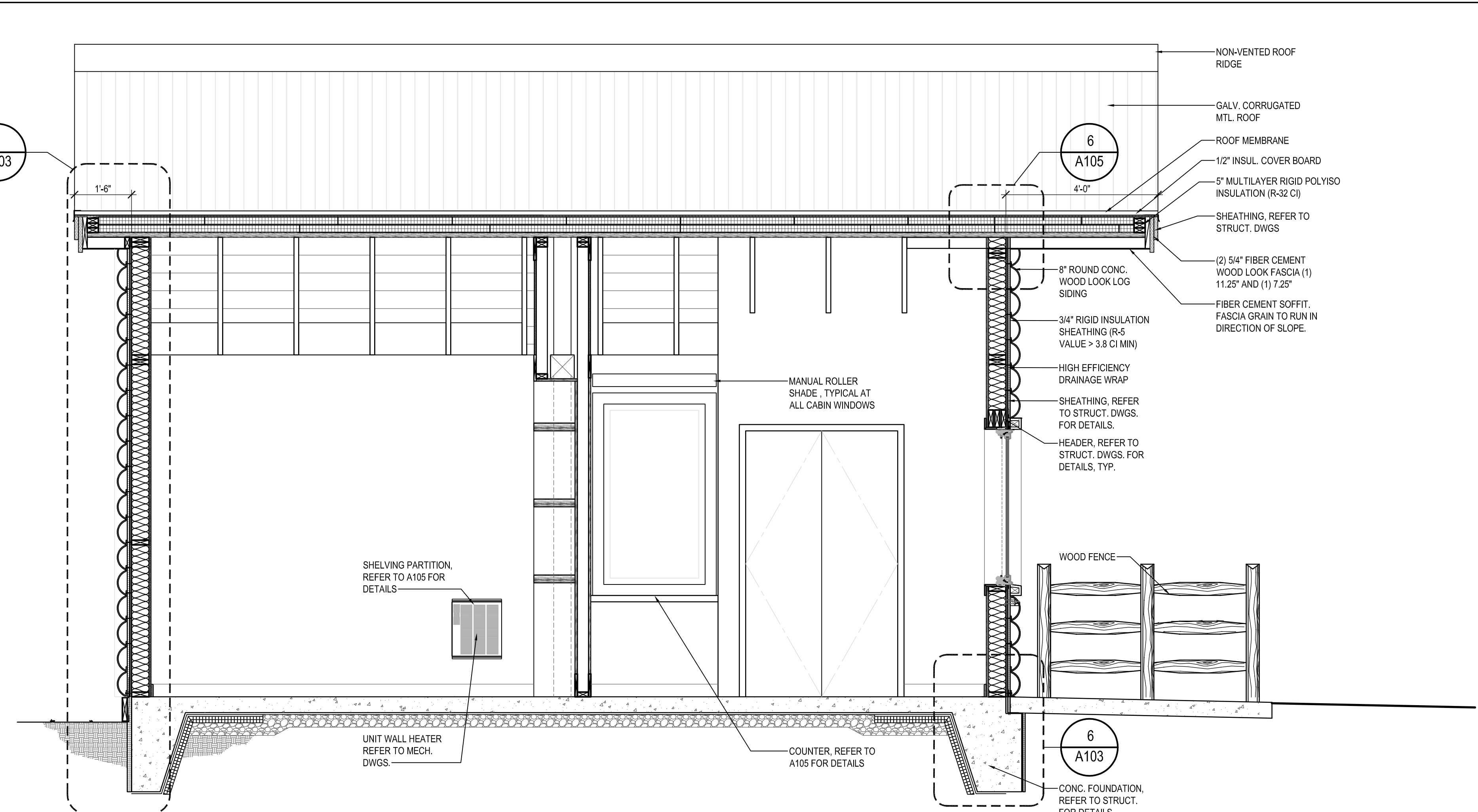
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DRAWN BY:	B.F.
CHECKED BY:	
SHEET NO. 33 OF 63	
PROJECT NO.: P584501	
CONTRACT NO.: P584500	

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
CABIN PLANS AND ELEVATIONS
A101

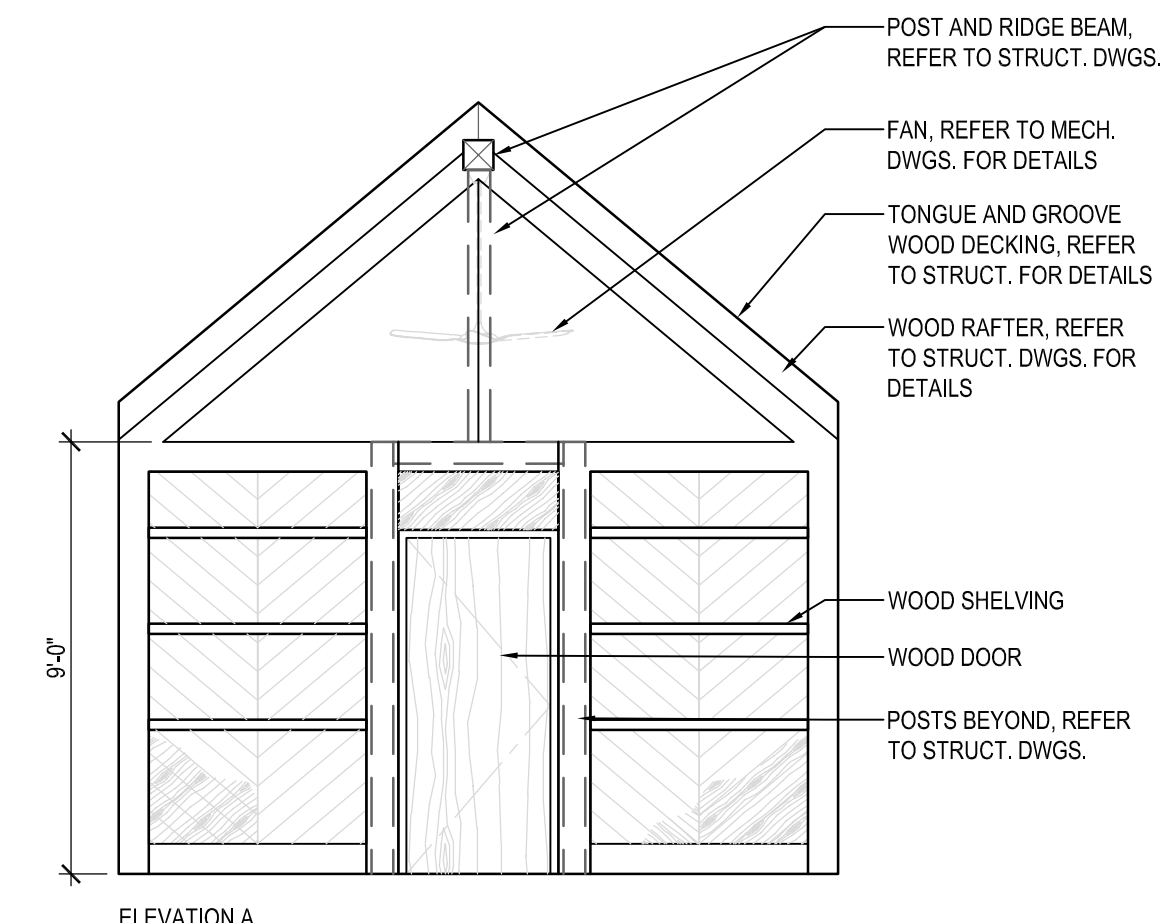
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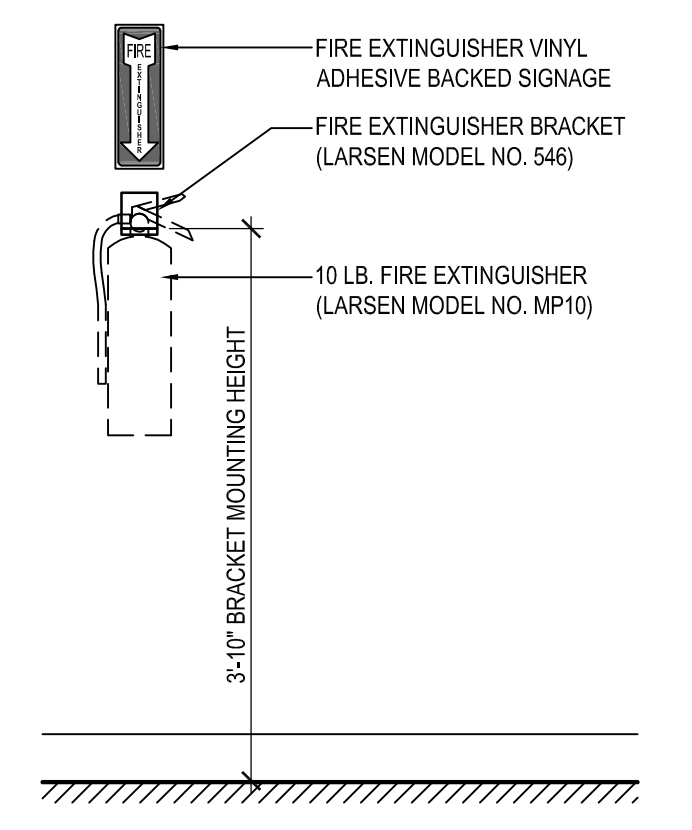
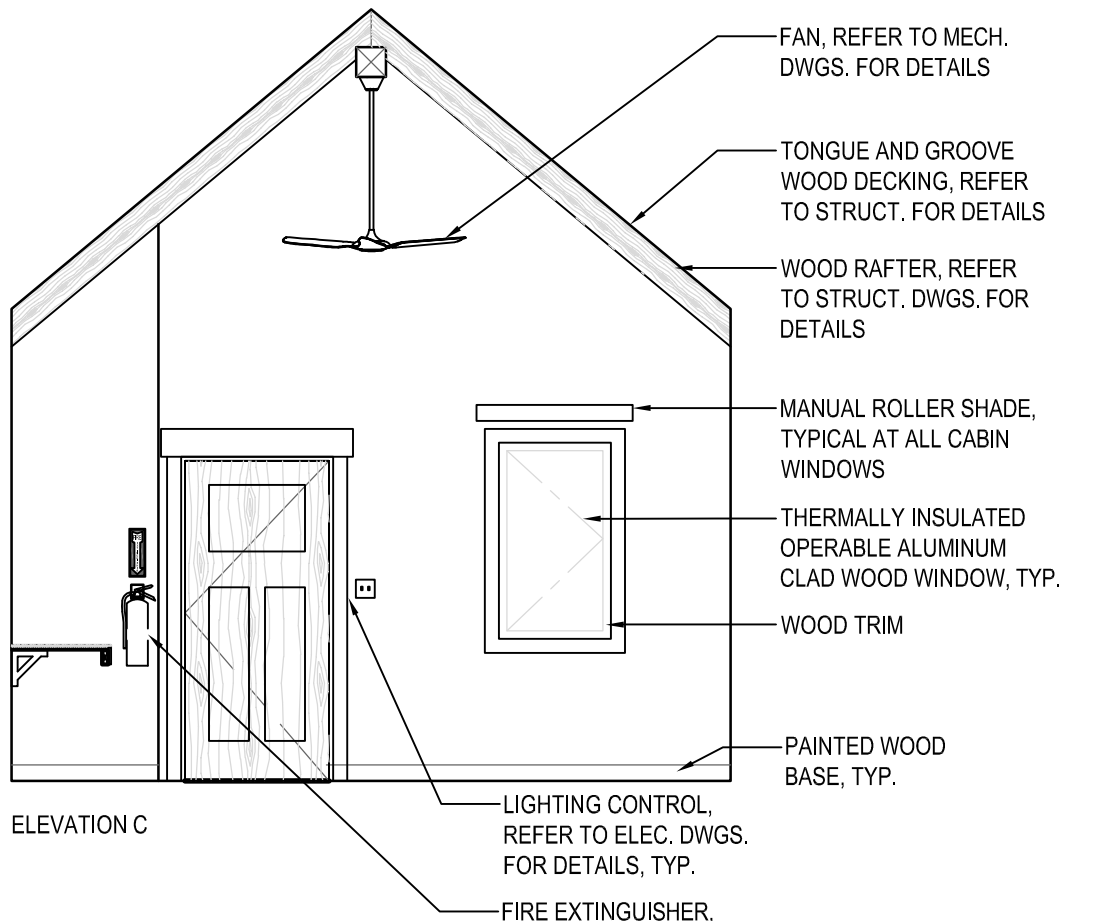
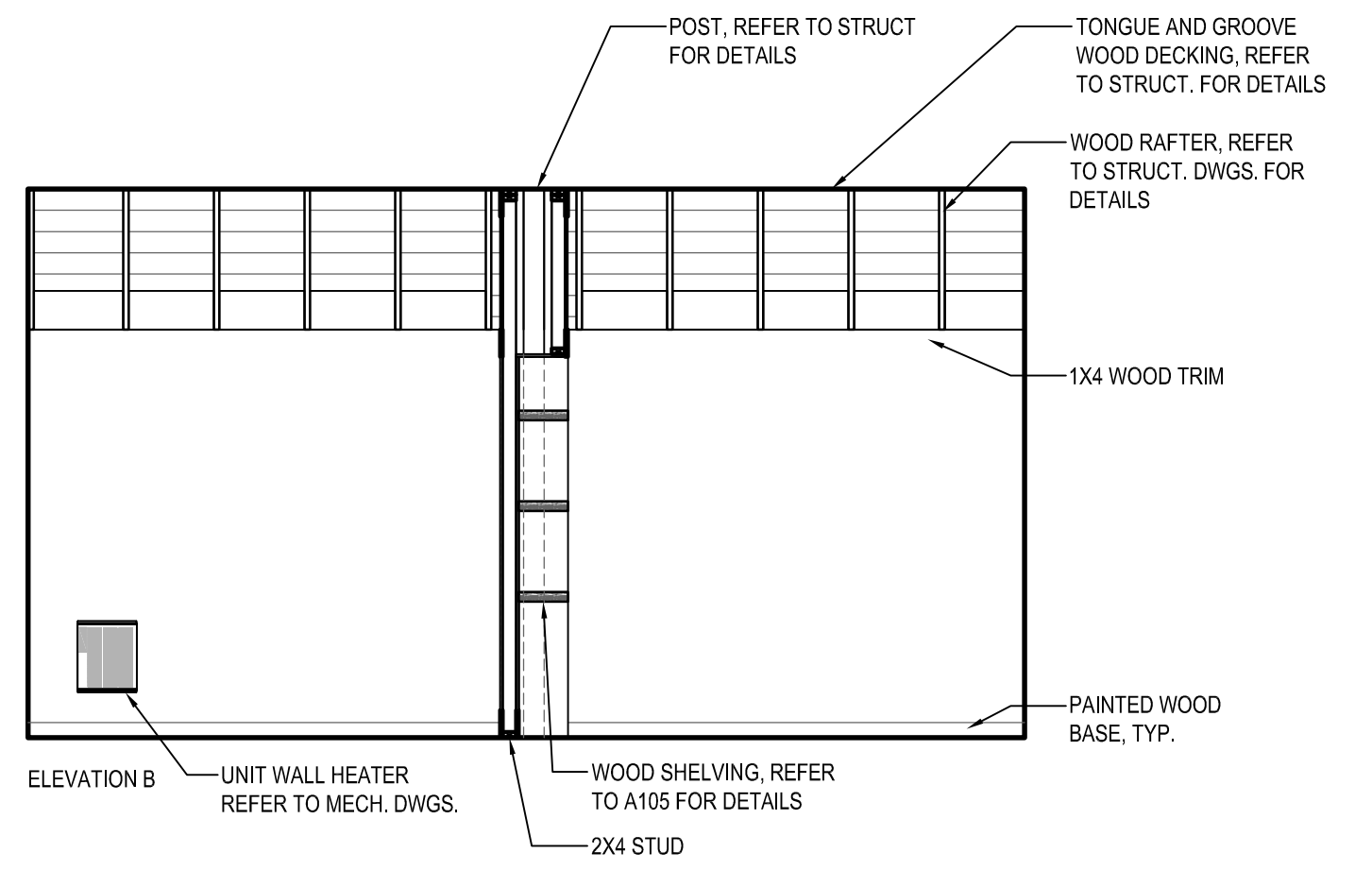
1 CABIN SECTION
SCALE: 1/2"=1'-0"



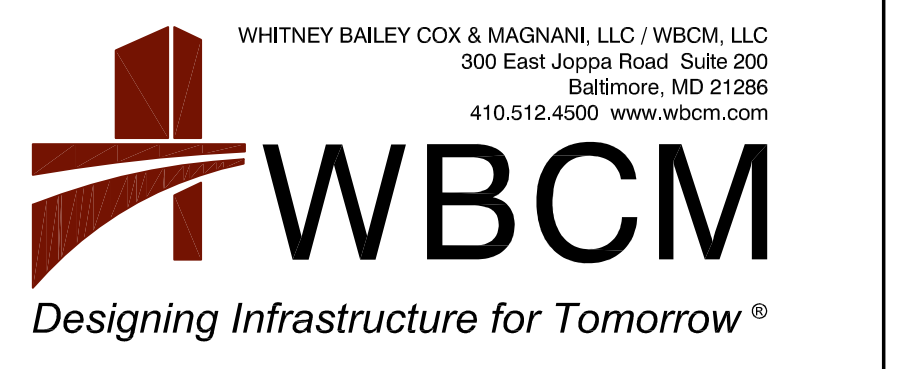
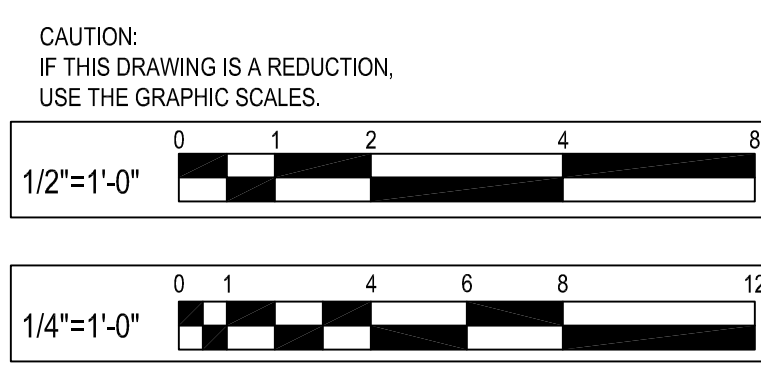
2 CABIN SECTION
SCALE: 1/2"=1'-0"



3 CABIN INTERIOR ELEVATIONS
SCALE: 1/4"=1'-0"



4 FIRE EXTINGUISHER ELEVATION
SCALE: 3/4"=1'-0"



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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	

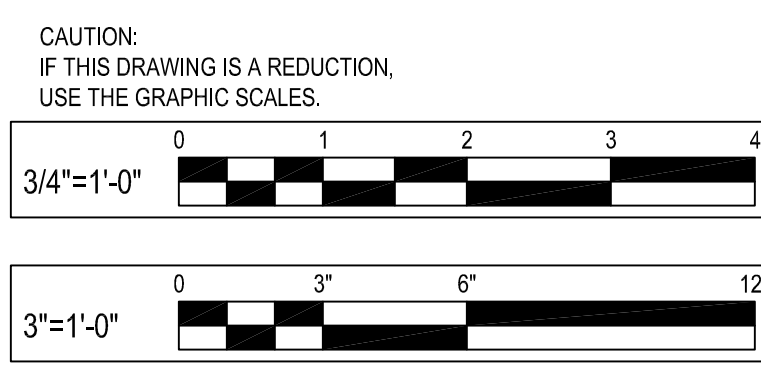
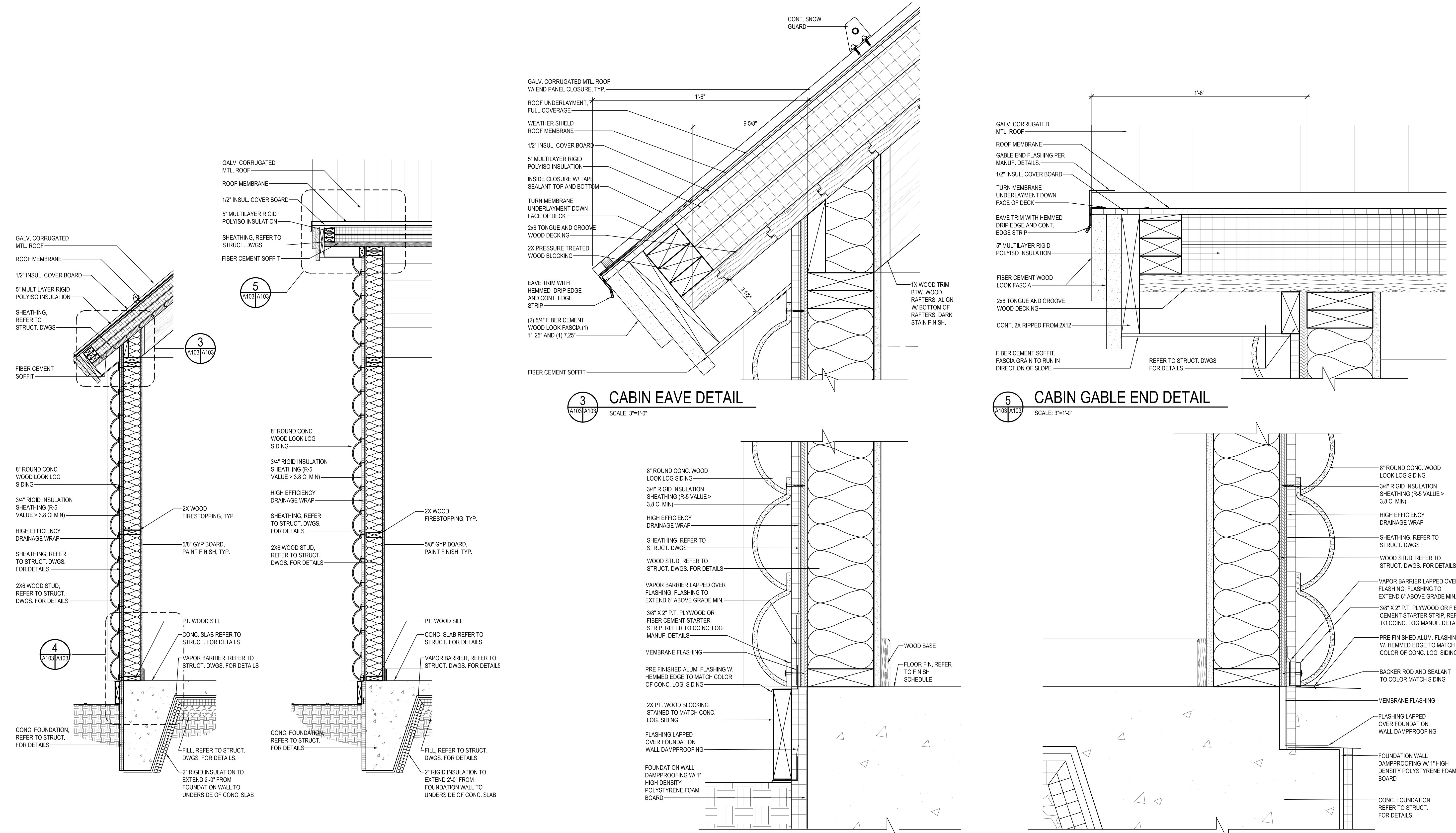
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CHECKED BY:	B.F.
SHEET NO. 34 OF 63	
PROJECT NO.:	P584501
CONTRACT NO.:	P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
CABIN SECTIONS AND DETAILS
A102

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P:\2017\17141806\Drawings\01-Arch\17141806_A101 - CABIN DRAWINGS.dwg Nov. 07, 2023 - 9:23am Plot By: dmarokels



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

SCALE:	A.D.M.
DRAWN BY:	B.F.
CHECKED BY:	B.F.
SHEET NO. 35	OF 63
PROJECT NO.:	P584501
CONTRACT NO.:	P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
CABIN INTERIOR ELEVATIONS AND MILLWORK
A103

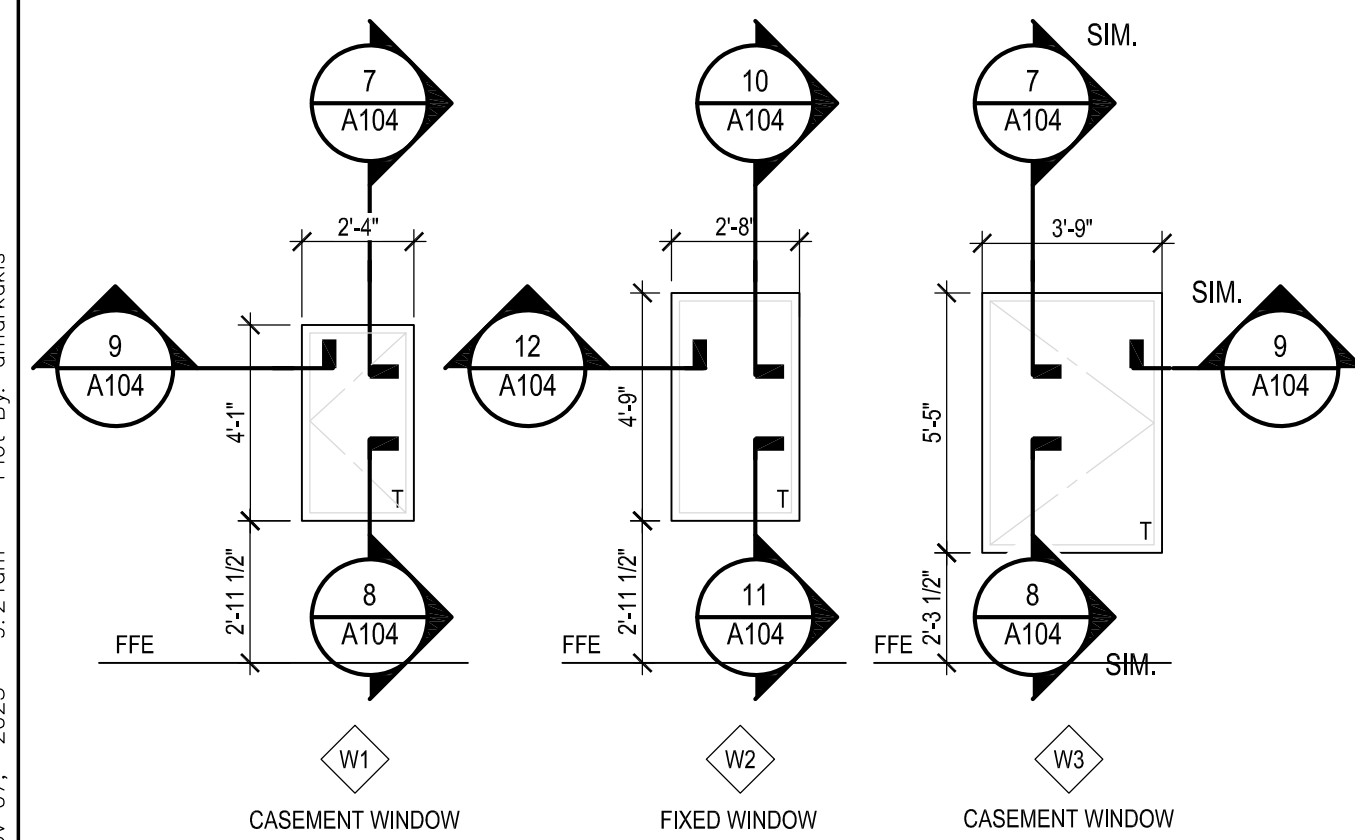
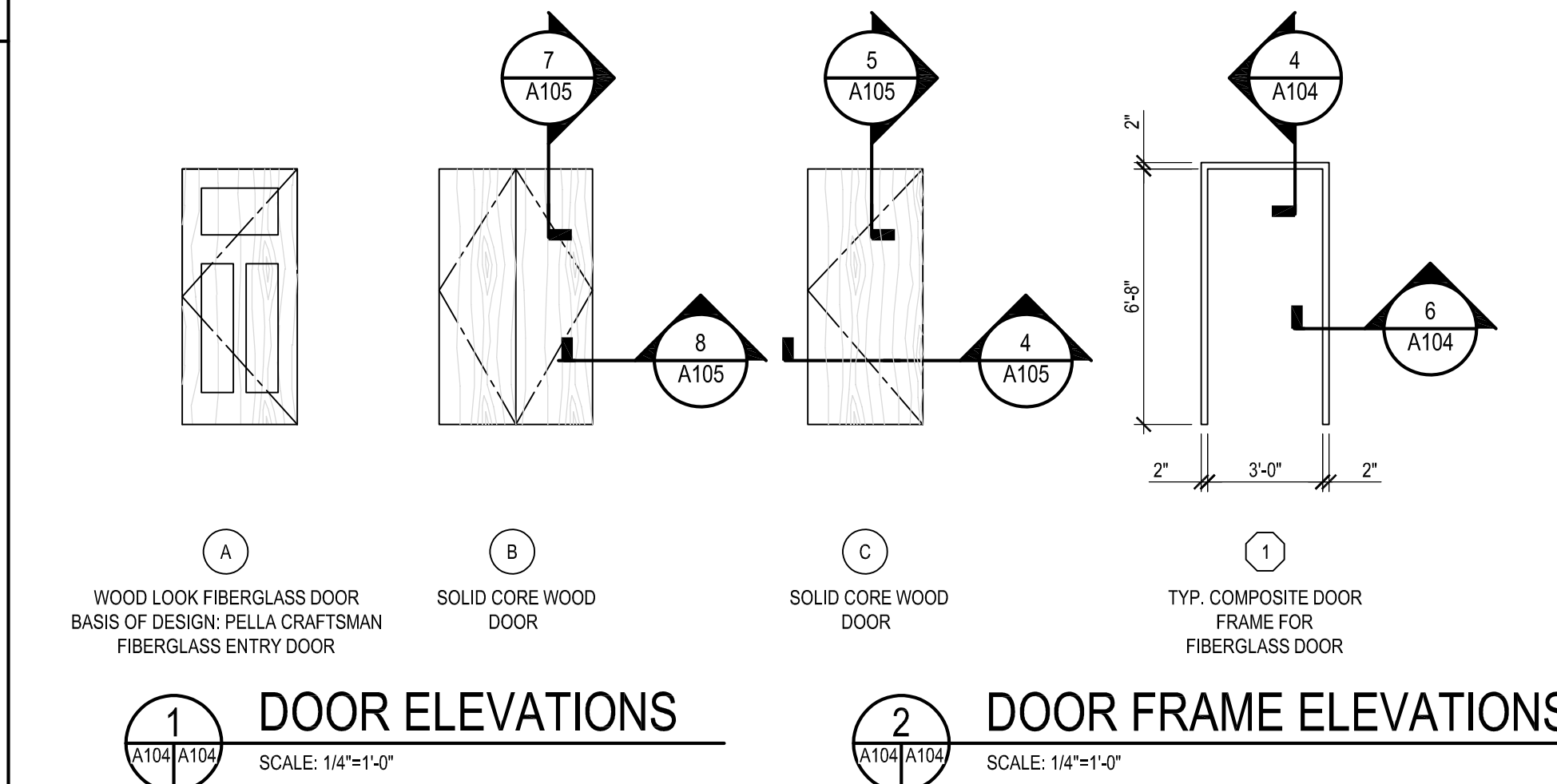
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FINISH SCHEDULE											
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		TRIM	REMARKS
				NORTH	SOUTH	EAST	WEST	MATL.	HT.		
101	QUEEN BED SLEEPING ROOM	LVT-1	WOOD	P-LAMP-1	P-1	P-1	P-1	VARIES	NA	CEILING IS TONGUE AND GROOVE WOOD DECKING. REFER TO STRUCT.	
102	MECHANICAL/ELECTRICAL CLOSET	LVT-1	WOOD	P-1	P-1	P-1	P-1	VARIES	NA	CEILING IS TONGUE AND GROOVE WOOD DECKING. REFER TO STRUCT.	
103	BUNK BED SLEEPING ROOM	LVT-1	WOOD	P-1	P-LAMP-1	P-1	P-1	VARIES	NA	CEILING IS TONGUE AND GROOVE WOOD DECKING. REFER TO STRUCT.	

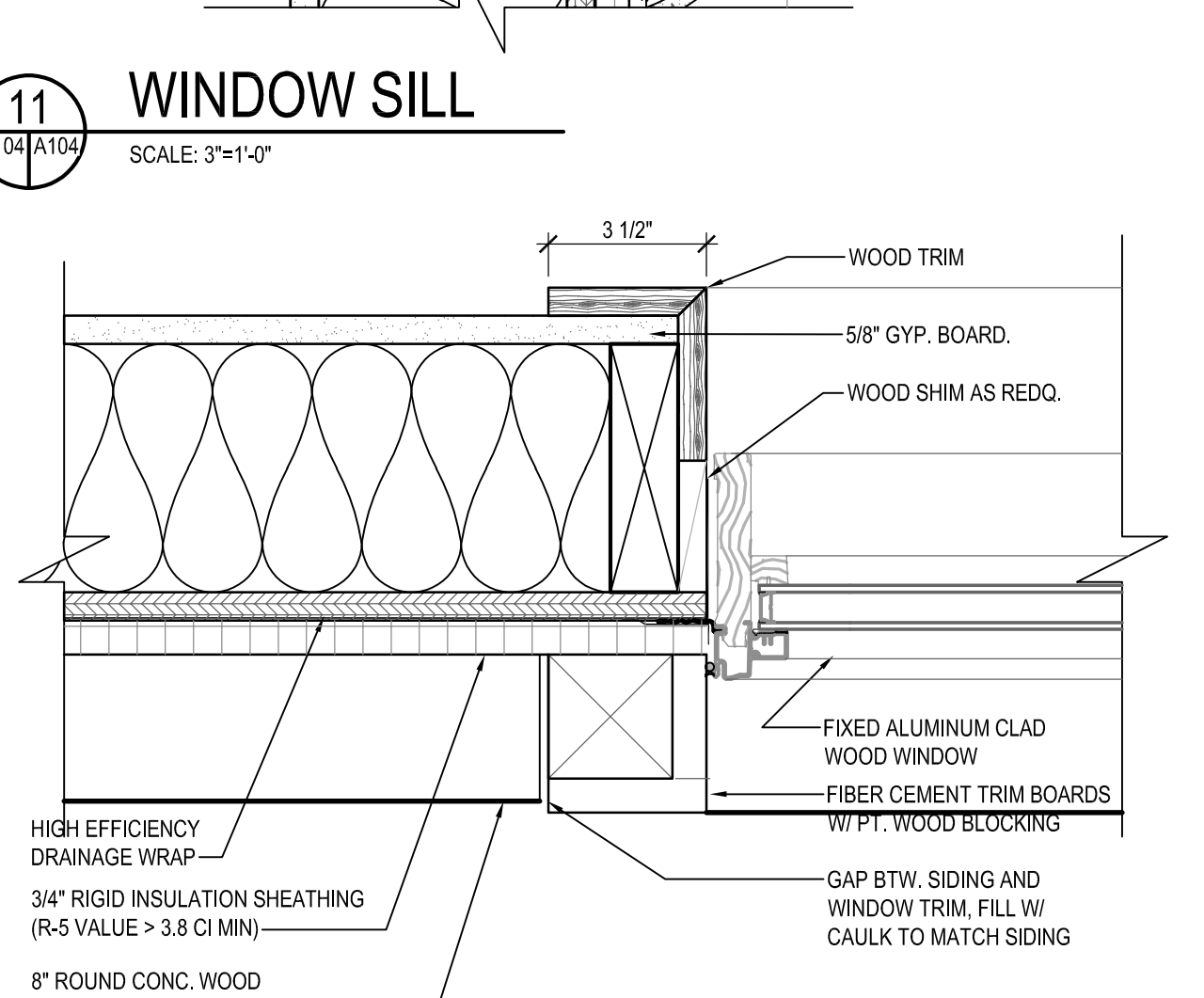
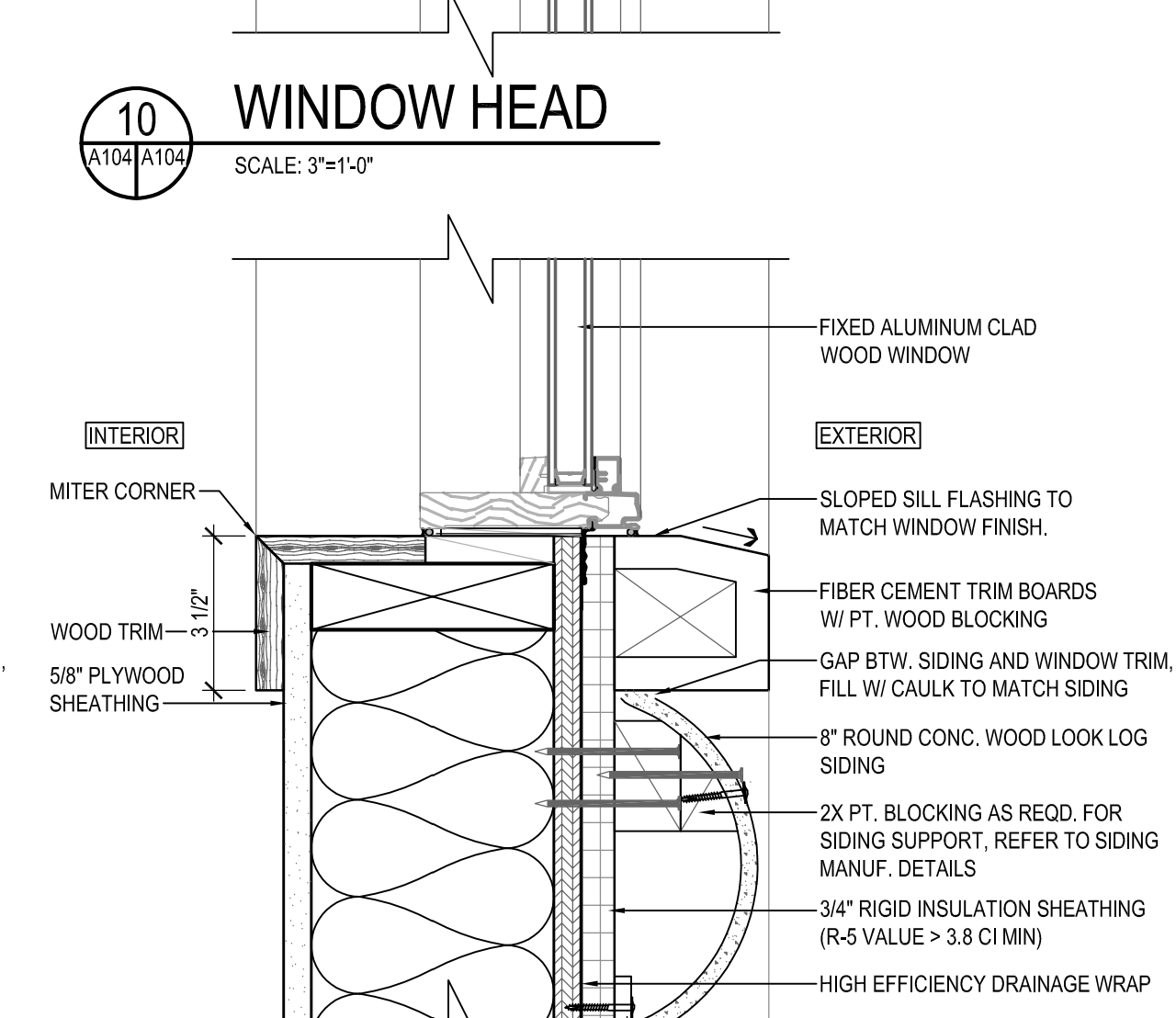
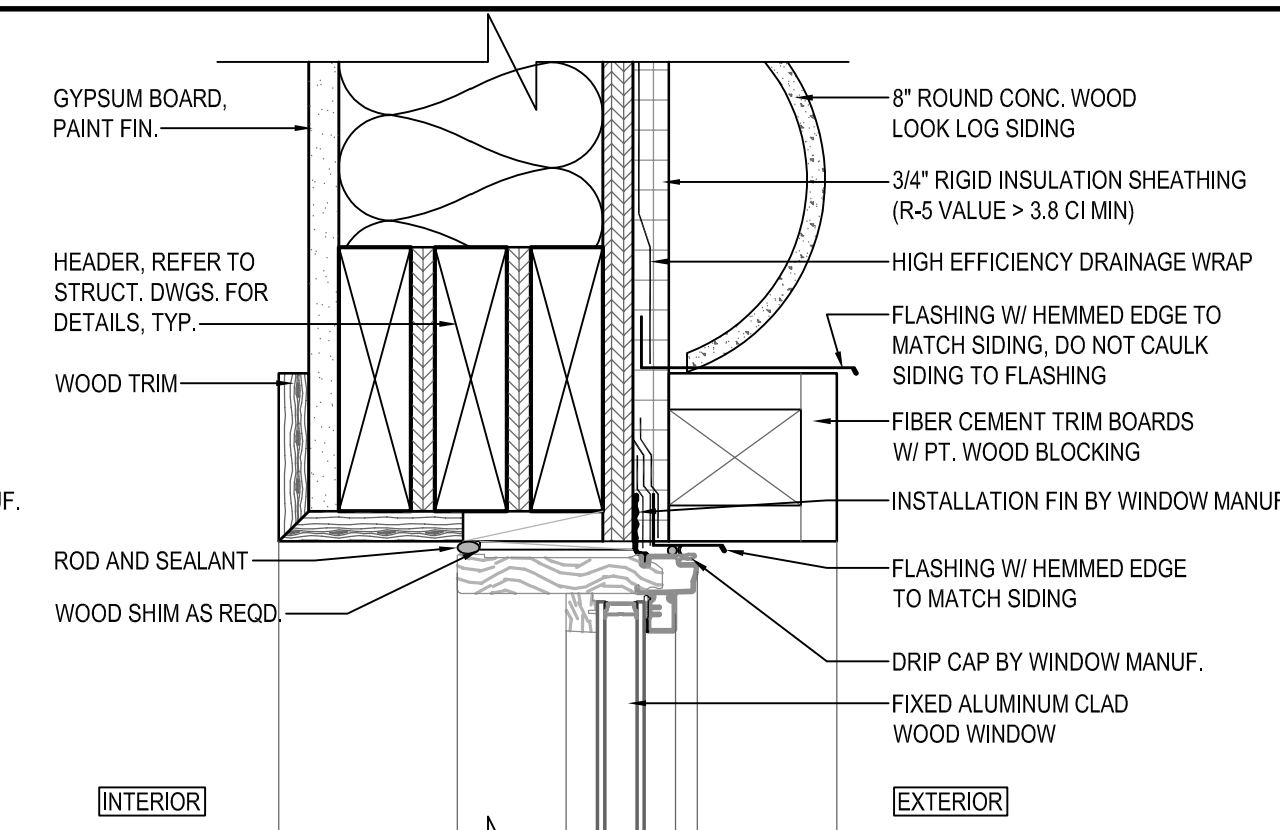
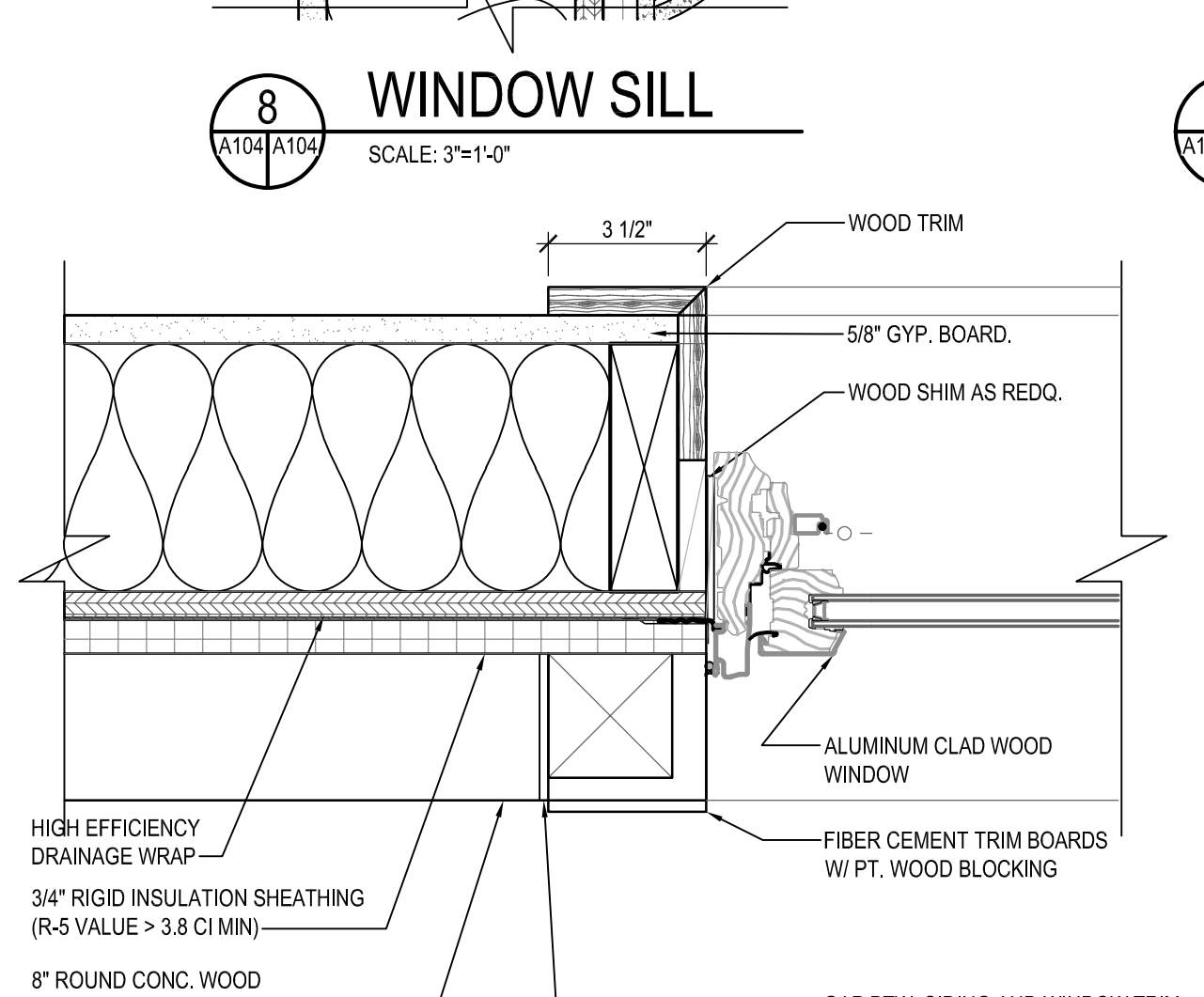
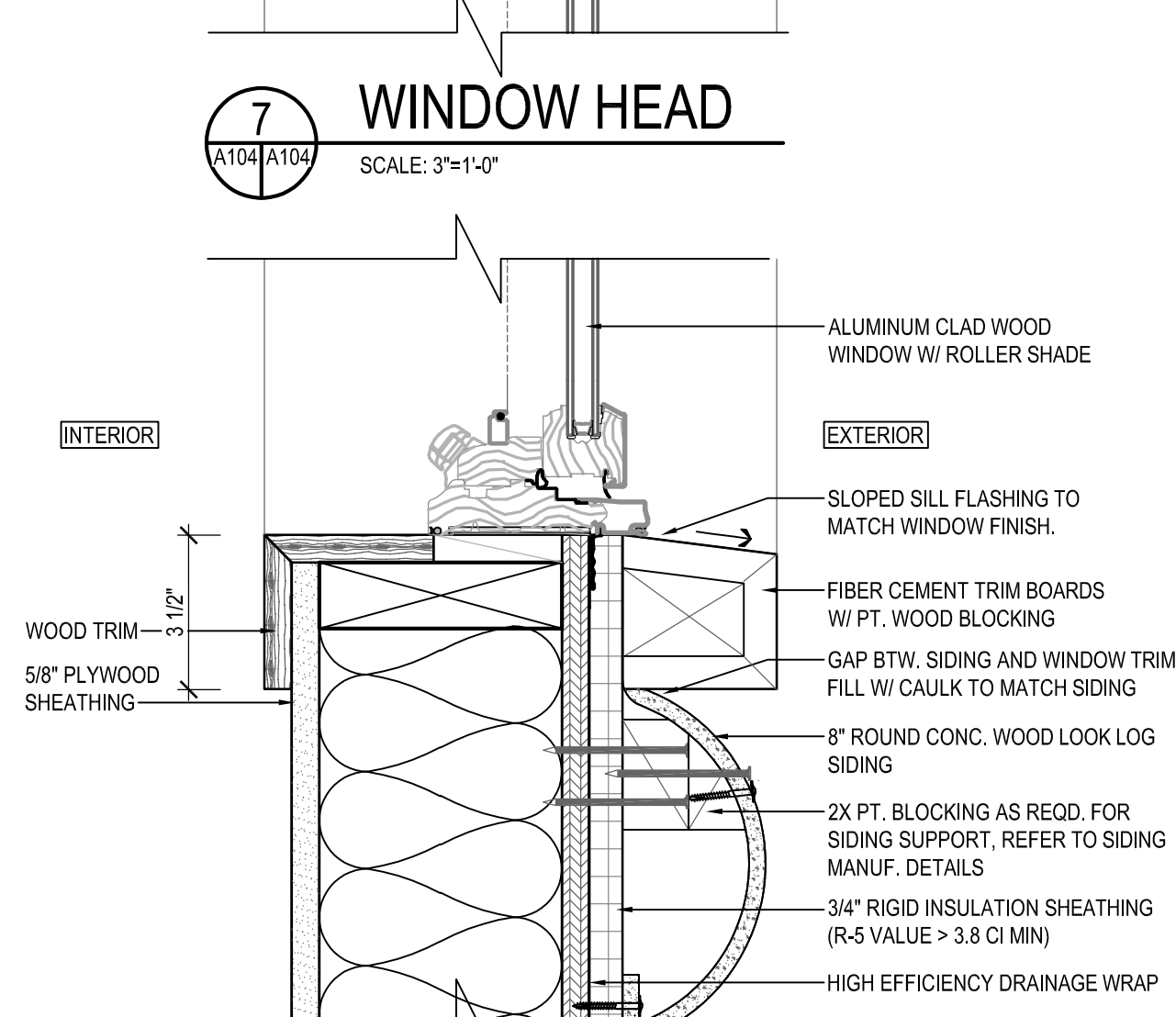
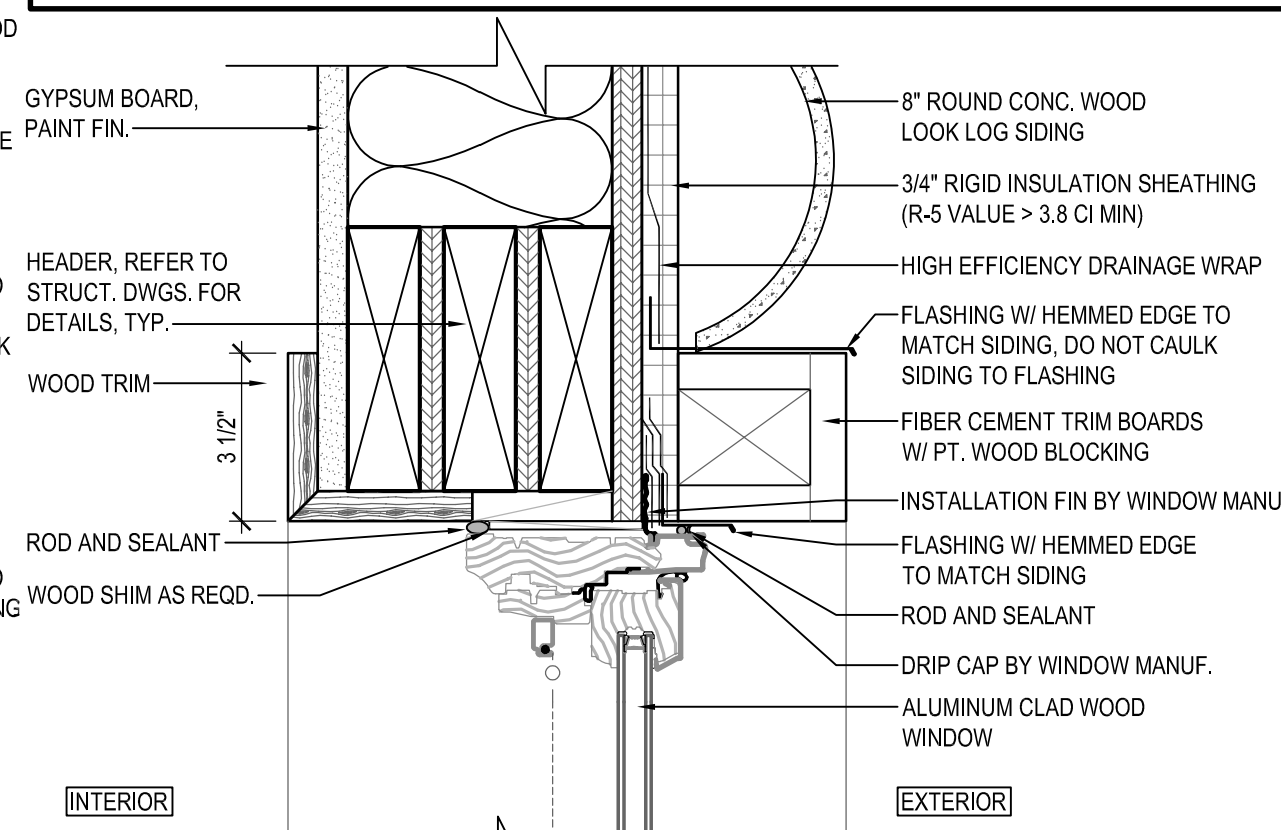
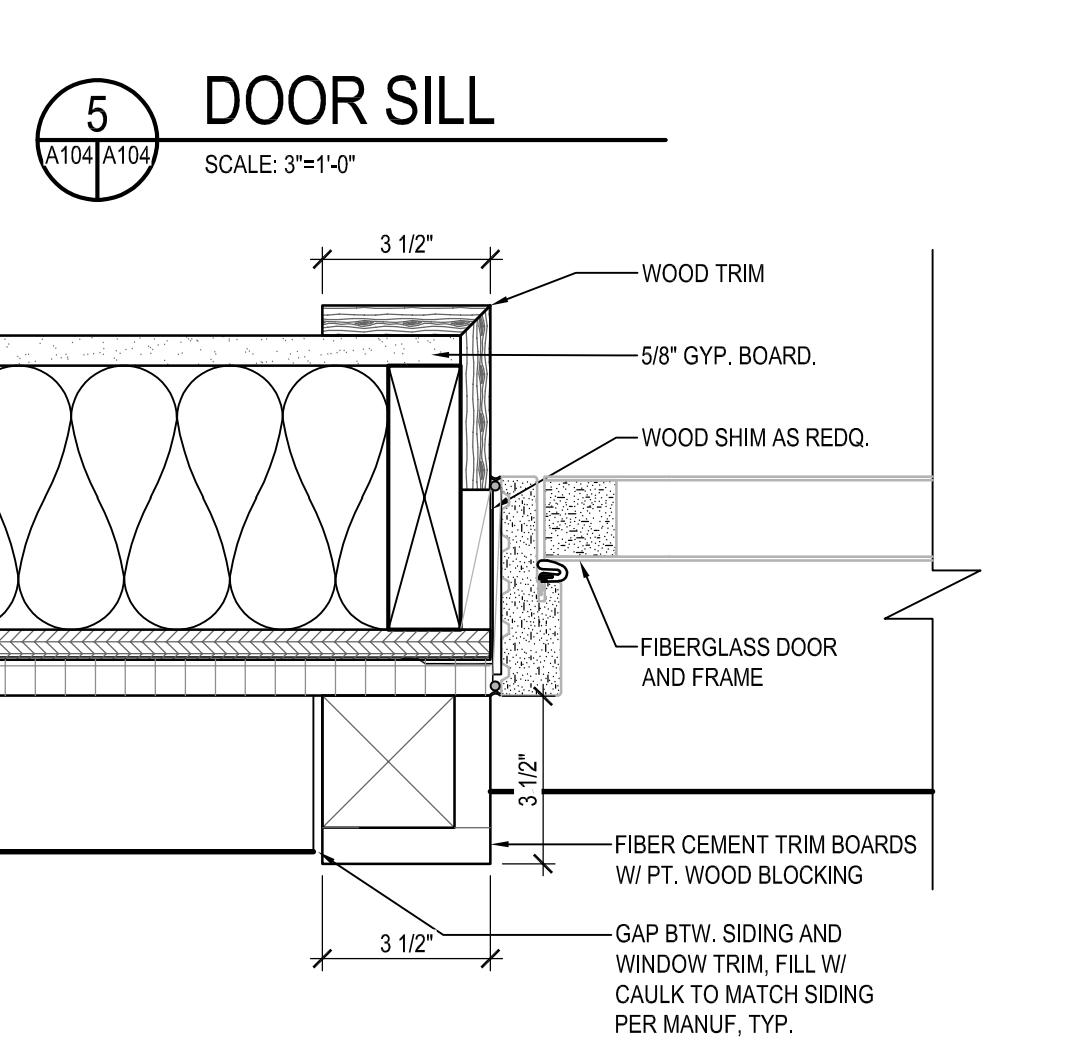
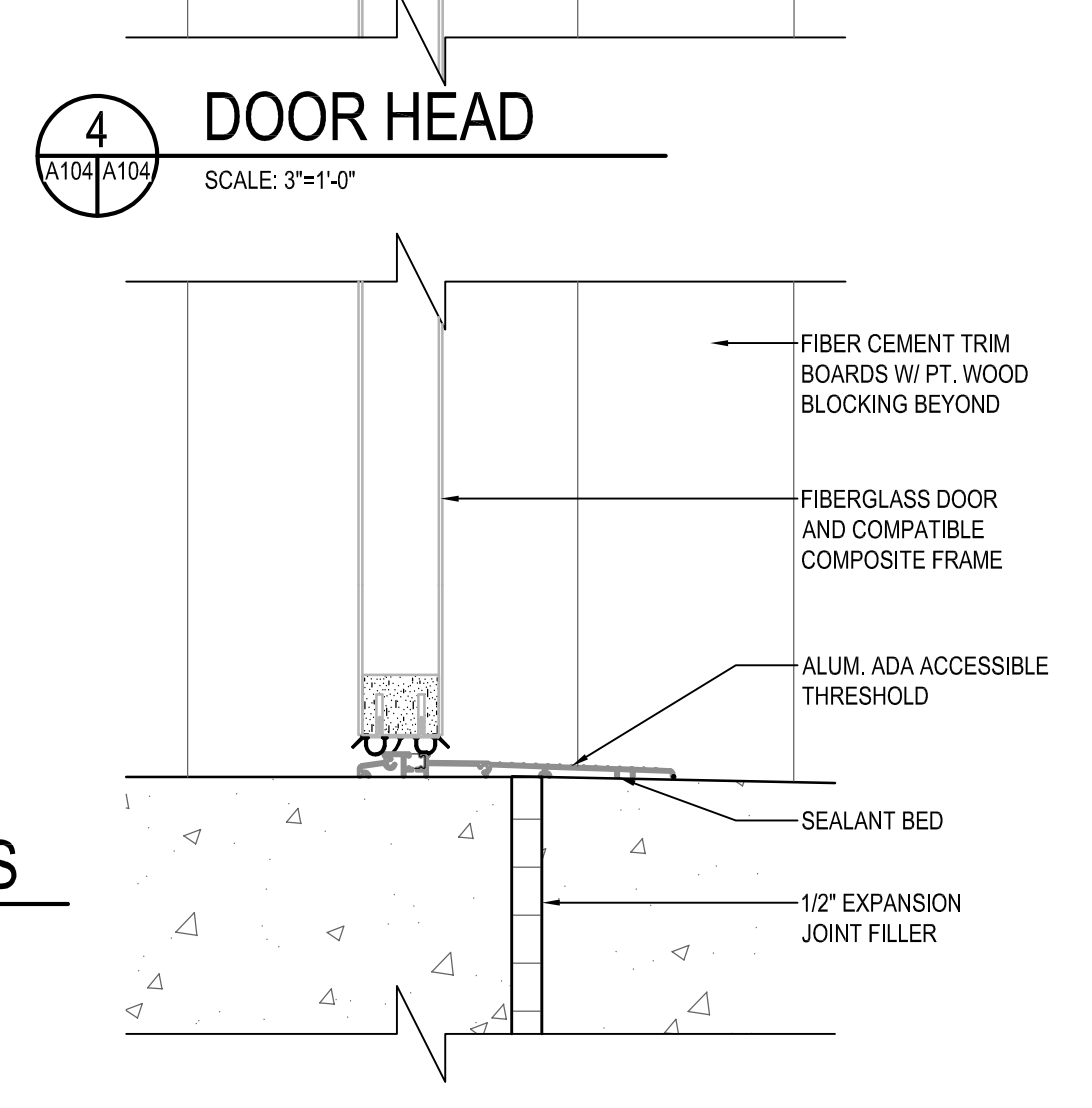
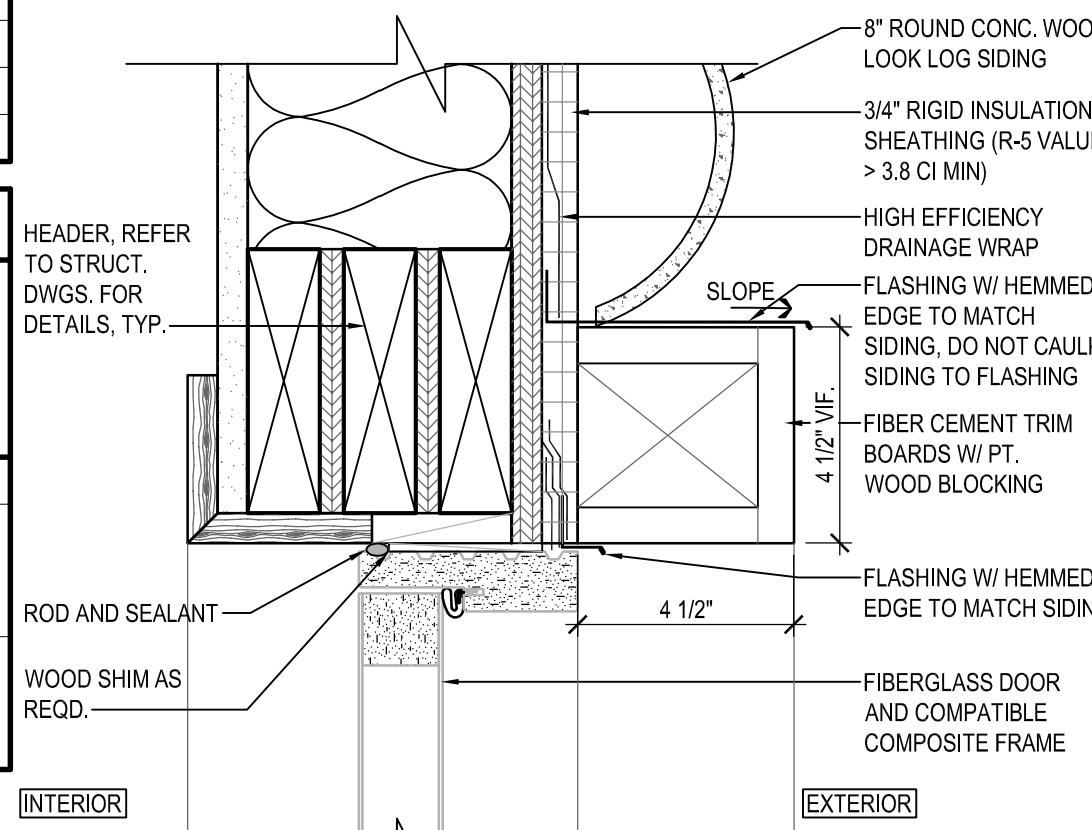
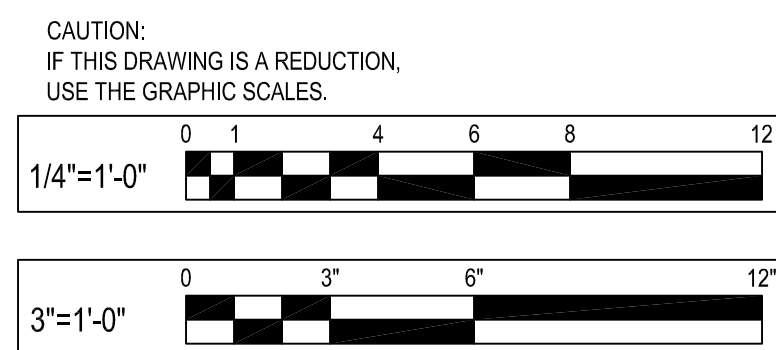
FINISH MATERIAL SCHEDULE										
FINISH NO.	FINISH LOCATION	FINISH NAME	MANUF.	MATERIAL					REMARKS	
				STYLE	COLOR	FINISH	CONTENT	SIZE		
LVT-1	FLOOR	WOOD LOOK LUXURY VINYL TILE	MOHAWK	LARGE AND LOCAL	898 CHATTAHOOCHEE	-	-	-	9.25" X 59"	
S-1	FLOOR	SEALED CONCRETE	SHERWIN WILLIAMS	-	-	BROOMED	-	-	-	SEALED CONCRETE FINISH ON EXTERIOR PATIO
P-1	WALL	PAINT, STANDARD LAMINATE	SHERWIN WILLIAMS	-	-	-	-	-	-	
P-LAM	WALL	WOOD LOOK LAMINATE PANEL	FORMICA	-	-	-	-	-	-	REFER TO CASEWORK ELEVATIONS FOR DETAILS.
SW-1	RAFTERS	DARK STAINED WOOD	MINWAX	-	HERITAGE BROWN	-	-	-	-	STAIN TO BE APPLIED TO RAFTERS
SW-2	DECKING	LIGHT STAINED WOOD	MINWAX	-	RUSTIC BEIGE	-	-	-	-	STAIN TO BE APPLIED TO RIDGE BEAM AND DECKING

DOOR SCHEDULE																	
ROOM NAME	DOOR NO.	DOOR					FRAME					FIRE RATING LABEL	HARDWARE		REMARKS		
		DOOR SIZE			MATL.	ELEV.	GLAZ.	MATL.	ELEV.	GLAZ.	FRAME DETAIL			SET NO.		KEY SIDE ROOM NO.	
		W.	HT.	THK.							HEAD		JAMB				SILL
BEDROOM	101-1	3'-0"	6'-8"	-	FG	A	-	CM	1	-	4/A104	6/A104	5/A104	-	ENT.	-	SOLID CORE WOOD DOOR WITH WOOD VENEER TO MATCH INTERIOR FINISH STAIN AND GRAIN PATTERN. ARCHITECT TO SELECT FROM MANUF. FULL RANGE OF FINISHES.
MECHELEC ROOM	101-2	2'-0"	6'-8"	-	WD	B	-	WD	-	-	7/A105	8/A105	-	-	STO.	-	SOLID CORE WOOD DOOR WITH WOOD VENEER TO MATCH INTERIOR FINISH STAIN AND GRAIN PATTERN. ARCHITECT TO SELECT FROM MANUF. FULL RANGE OF FINISHES.
BEDROOM	101-3	3'-0"	6'-8"	-	WD	C	-	WD	-	-	5/A105	4/A105	-	-	PA.	-	SOLID CORE WOOD DOOR WITH WOOD VENEER TO MATCH INTERIOR FINISH STAIN AND GRAIN PATTERN. ARCHITECT TO SELECT FROM MANUF. FULL RANGE OF FINISHES.

- ### DOOR NOTES
- GENERAL DOOR NOTES:
- ALL DOORS TO HAVE LEVER TYPE DOOR HANDLES UNO IN DRAWINGS OR SPECS.
 - ALL DOORS WHERE OPEN PARALLEL TO WALL TO HAVE WALL MOUNTED DOOR STOPS.
 - REFER TO SPECIFICATIONS FOR HARDWARE SET INFORMATION.
 - ALL DOORS TO HAVE MATTE BLACK HARDWARE, UNO.
 - ALL EXTERIOR FG DOORS TO HAVE MANUFACTURER PREFINISHED PAINT.
 - FG = FIBERGLASS
 - CM = COMPOSITE MATERIAL
 - ALL DOORS TO HAVE LOW PROFILE ADA ACCESSIBLE SILLS
 - REFER TO SPECIFICATIONS FOR ALL HARDWARE.
- HARDWARE TYPES BY FUNCTION:
- | | |
|-------------|--|
| 1. DM | HARDWARE BY DOOR MANUFACTURER |
| 2. PR | PRIVACY FUNCTION |
| 3. OFF | OFFICE FUNCTION |
| 4. STOR | CLOSET FUNCTION |
| 5. ENT | ENTRANCE FUNCTION |
| 6. EM | EMERGENCY EXIT, PANIC BAR, LATCH W/ DOOR PULL, EXT. SIDE, CYLINDER LOCK ACCESS |
| 7. PA | PASSAGE FUNCTION |
| 8. D.P.P.P. | DOOR PULLS / PUSH PLATE |



- GENERAL NOTE:
- ALL WINDOW, DOOR, SIDELITE GLAZING SHALL BE LOW-E, TEMPERED & INSULATED GLASS IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC). ALL OTHER GLAZING IS INSULATED & LOW-E.
 - "T" DESIGNATED IN CORNER OF INDIVIDUAL PANE OF GLAZING TO BE TEMPERED (REFER TO IBC 2406.3)
 - ALL WINDOWS TO HAVE SIMULATED-DIVIDED-LIGHT GRILLES ON INTERIOR AND EXTERIOR (WOOD ON THE INTERIOR AND ALUMINUM ON THE EXTERIOR) WITH 7/8" SPACER ALIGNED WITH INTERIOR AND EXTERIOR GRILLES. BASES OF DESIGN: PELLA RESERVE.
 - INTERIOR FINISH - ARCHITECT TO SELECT STAIN FROM FULL RANGE OF COLORS.
 - EXTERIOR FINISH-ALUMINUM CLADDING, COLOR: ARCHITECT TO SELECT COLOR FROM FULL RANGE OF COLORS AND GRAINS.
 - WINDOWS OPENINGS ARE DIMENSIONED TO CENTER LINE OF WINDOW ON A101. CONTRACTOR TO COORDINATE OPENING FRAMING TO INCLUDE SHIM SPACE EACH SIDE. CONTRACTOR TO VERIFY SHIM SPACE WITH MANUF. AND COORDINATE FINAL ROUGH OPENINGS SIZES.
 - CONTRACTOR TO COORDINATE FINAL FLASHING DETAILS WITH MANUF. SHOP DRAWINGS AND STANDARD FLASHING DETAILS.



- ### GENERAL SHEET NOTES
- CONTRACTOR SHALL PROPERLY PREPARE SURFACES FOR FINISH MANUFACTURER'S SPECIFICATIONS PRIOR TO APPLICATION OF FINISH. ALL FINISHES AND ADJOINING SURFACES SHALL REMAIN FREE OF GLUE, PLASTER AND PAINT EXCESS.
 - GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION BETWEEN TRADES TO INSURE PROPER INSTALLATION OF FLOOR FINISH FOR COLORS AND FINISH QUALITIES.
 - PAINTER SHALL USE PRIMER COMPATIBLE WITH SUBSTRATE TO BE PAINTED AND WILL PROVIDE FINAL FINISH COAT AS RECOMMENDED BY MANUFACTURER. TINT PRIME COAT TOWARD FINAL COLOR. SEALER/PRIMER SHALL BE ROLLER APPLIED TO GYPSUM BOARD. SPRAY APPLICATION IS NOT ACCEPTABLE.
 - EXPOSED CONCRETE PATIO FLOOR TO BE THOROUGHLY CLEANED, REMOVE ALL STAINS, GRIND PATCHES SMOOTH & BLEND TO CONCRETE TO GREATEST DEGREE POSSIBLE. PRIME WITH CURING COMPOUND & SEAL WITH COMPATIBLE SEALER.
 - ALL EXPOSED CONDUIT, PIPING, POWER, UTILITY TO RECEIVE PAINT FINISH TO MATCH ADJACENT SURFACE FINISH.
 - ALL EXPOSED CONDUIT, PIPE, WIRING & HVAC EQUIPMENT SHALL BE LOCATED TO MINIMIZE ITS VISIBILITY. RUN CONDUIT, PIPE & WIRING ADJACENT TO COLUMNS VERTICALLY & ROOF BEAMS HORIZONTALLY. MINIMIZE EXPOSURE. PLACE ABOVE CEILING TO THE GREATEST EXTENT POSSIBLE. PAINT ALL EXPOSED MATERIALS TO MATCH SUBSTRATE FOR ALL EXPOSED CONDUIT ALONG WALLS RUN IN DIRECTION TO MINIMIZE EXPOSURE.
 - PAINT SHEEN SHALL BE AS FOLLOWS:
 - SHEEN AT PAINTED GYPSUM BOARD WALL TO BE PAINTED EGGSHELL, U.N.O.
 - SEMI GLOSS FINISH - WINDOW FRAMES, WINDOW TRIM, DOOR TRIM.
 - CONTRACTOR TO PROVIDE FULL SIZE SAMPLES OF ALL INTERIOR AND EXTERIOR FINISHES. ARCHITECT TO SELECT FROM FULL RANGE OF MANUFACTURERS COLORS. TYPICAL OF ALL FINISHES.
 - STAINED WOOD SAMPLES TO BE PROVIDED ON 8X8 PINE PLANE SAWN WOOD. WOOD TO BE SANDED PER STAIN MANUFACTURER RECOMMENDATION. PROVIDE CONDITIONING PRIMER, STAIN AND FINAL SEAL COAT PER STAIN MANUFACTURER RECOMMENDATION. ARCHITECT TO SELECT STAIN FROM FULL RANGE OF MANUFACTURERS COLORS. FINAL SEAL COAT TO BE PROVIDED IN A CLEAR ULTRA FLAT FINISH.
 - FINISHED AND DOORS ARE TYPICAL OF ALL CABINS ON THE SITE (8 CABINS TOTAL). REFER TO CIVIL DRAWINGS FOR CABIN LOCATIONS.

P:\2017\17141806\Drawings\01-Arch\17141806_A101 - CABIN DRAWINGS.dwg Nov. 07, 2023 - B.24km Plot By: dmarokels

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REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

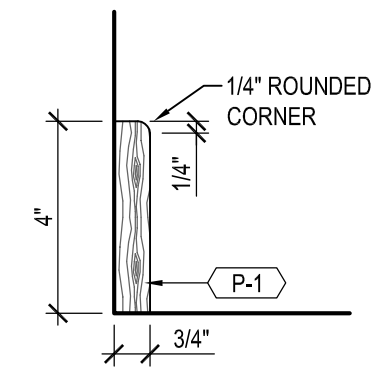
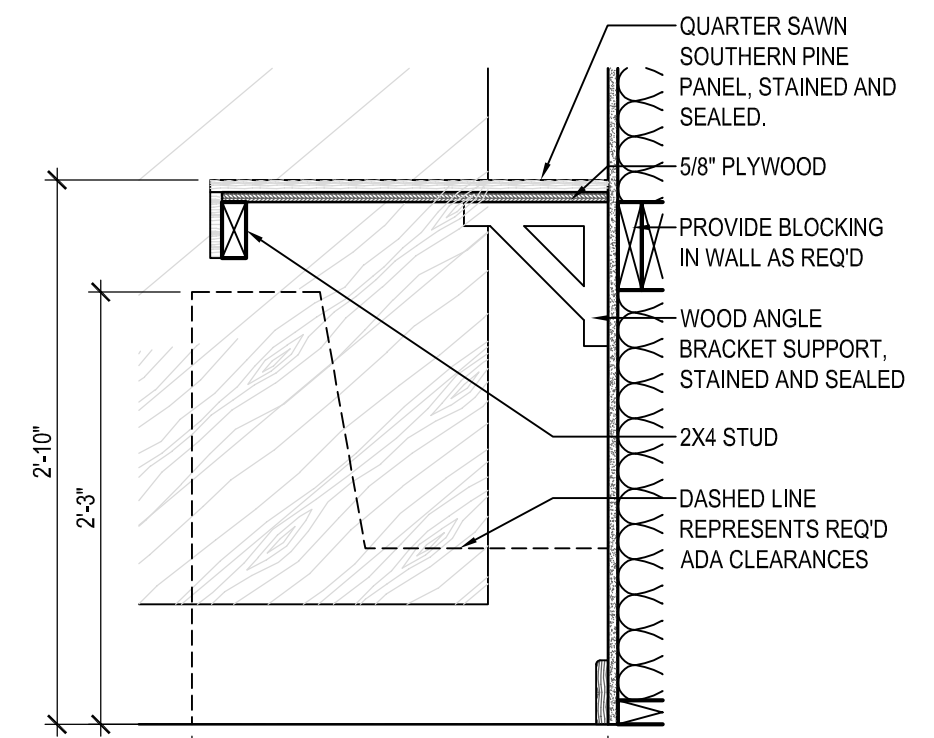
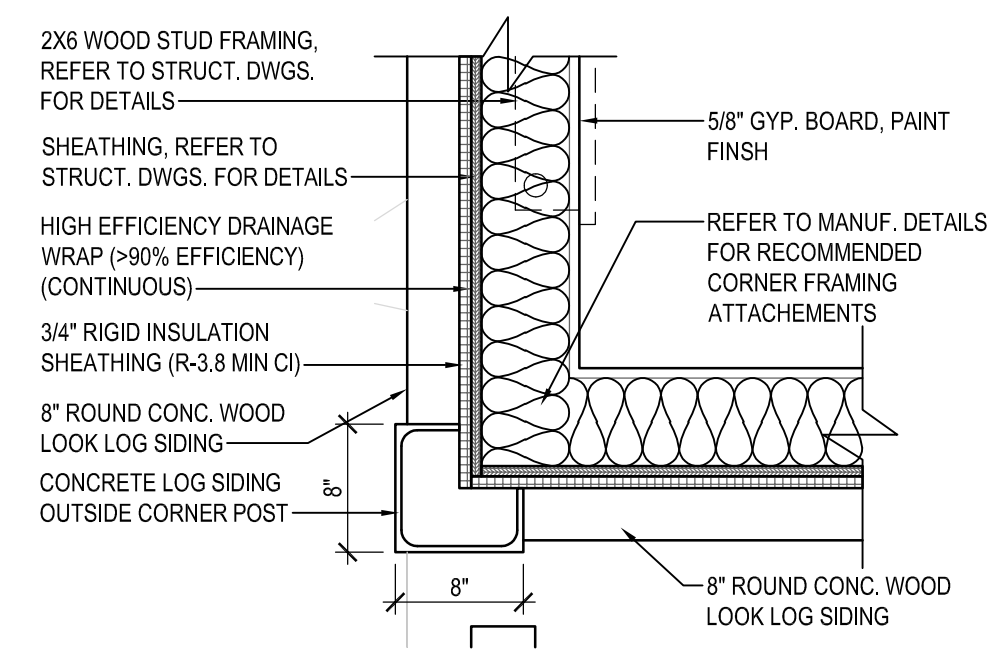
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APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	

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SHEET NO. 36 OF 63
PROJECT NO.: P584501
CONTRACT NO.: P584500

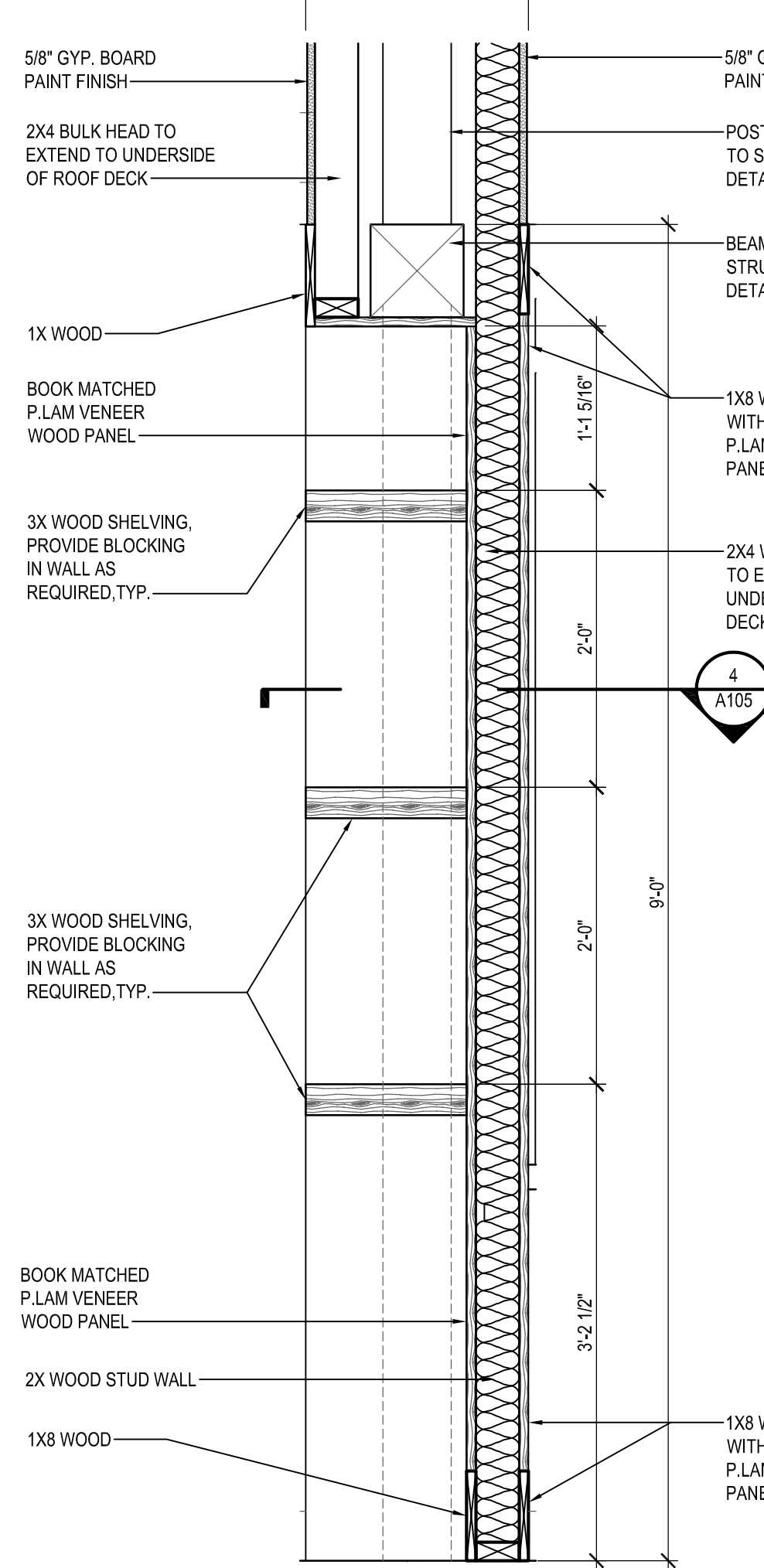
JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
CABIN SCHEDULES AND DETAILS
A104

BID SET

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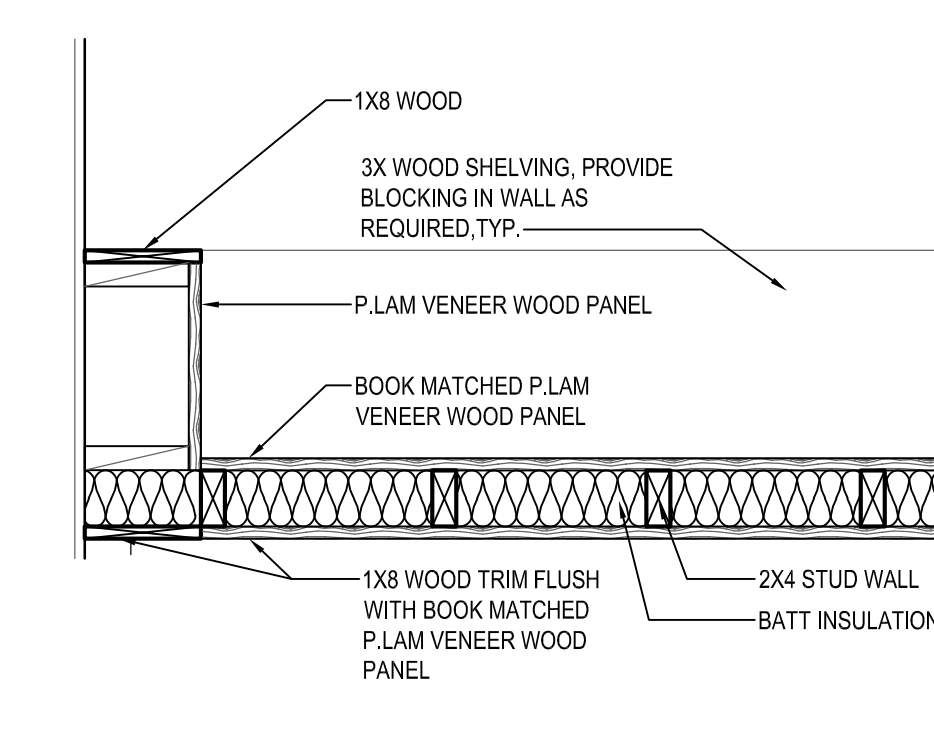


1 PLAN DETAIL
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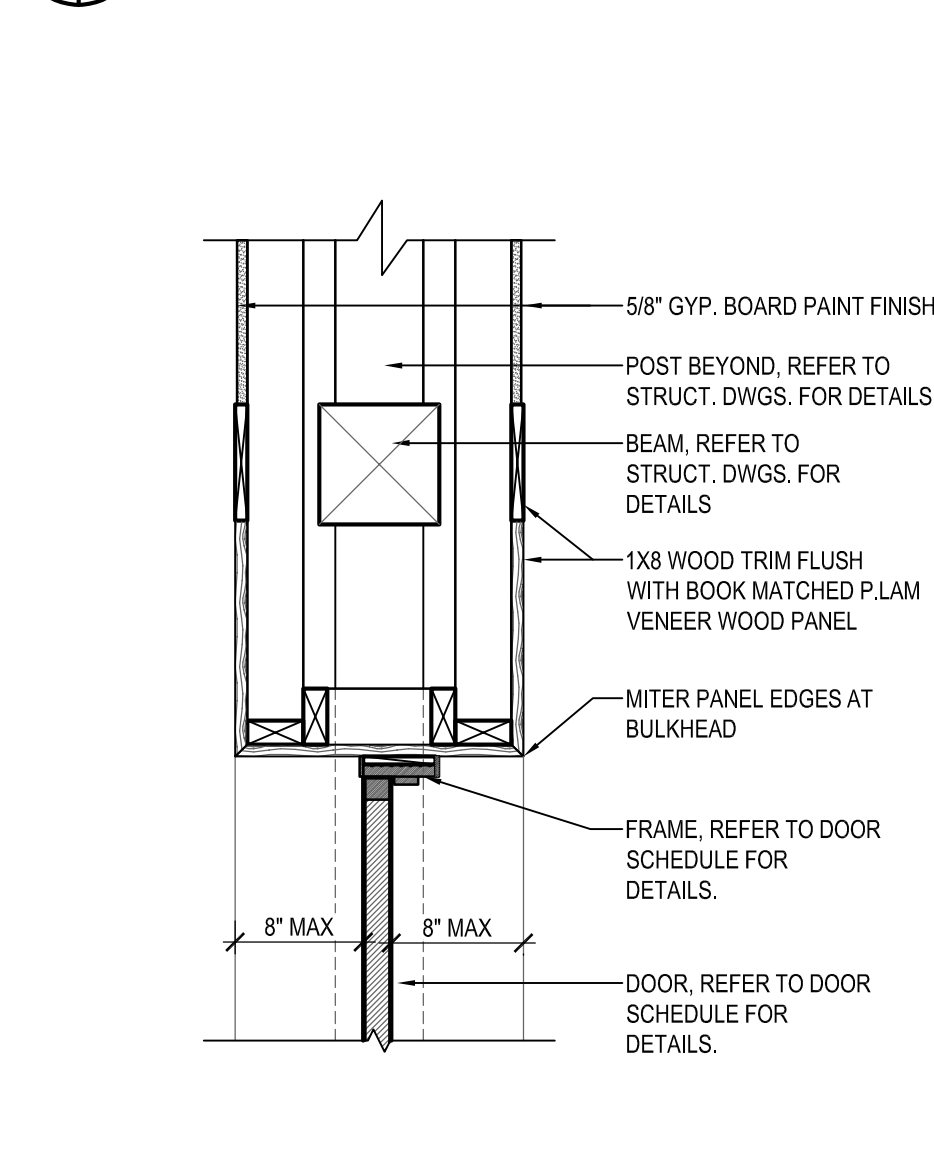


3 SHELF/DIVIDER WALL DETAIL
SCALE: 1"=1'-0"

2 COUNTER DETAIL
SCALE: 1"=1'-0"

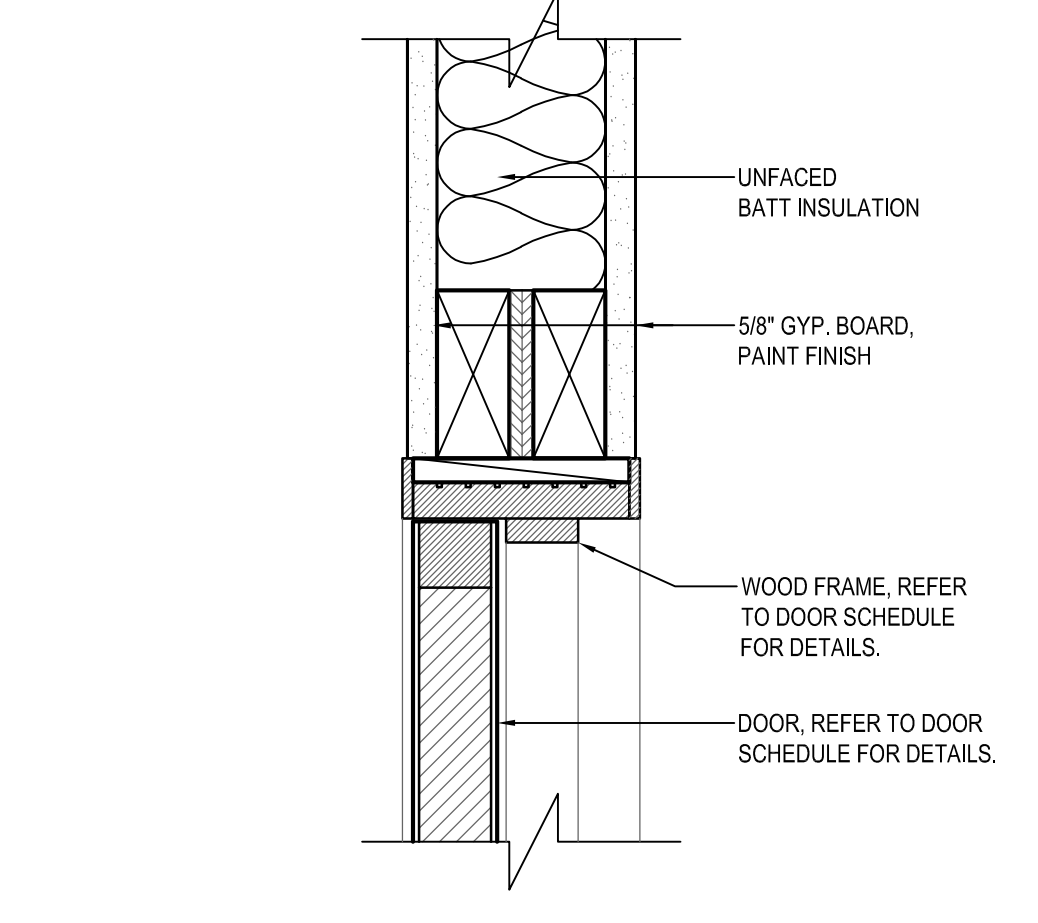
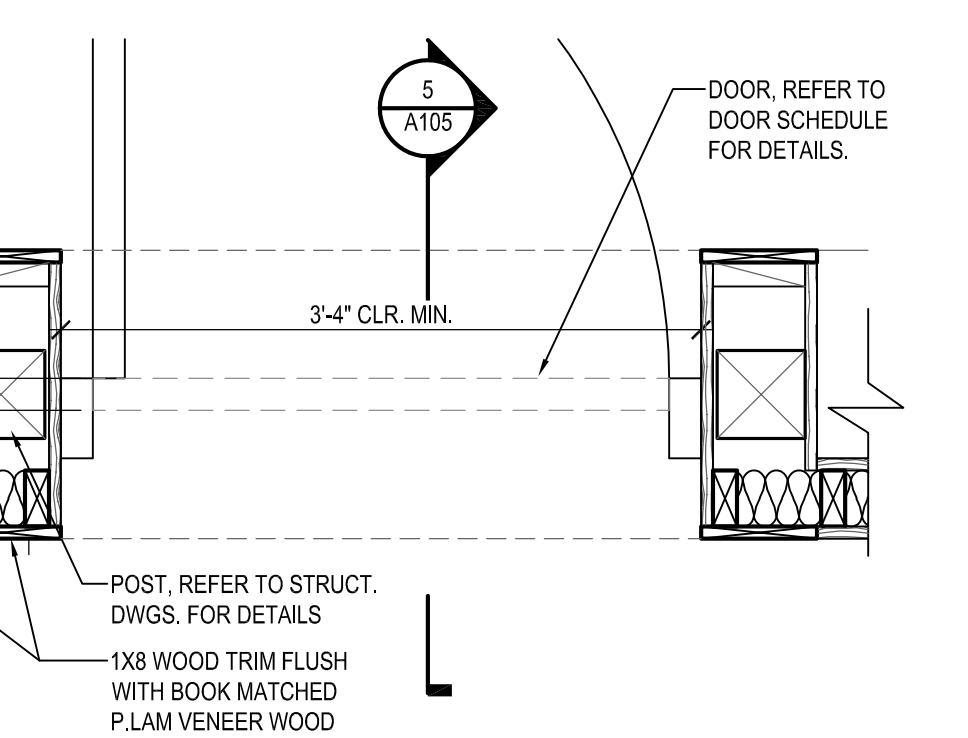


4 SHELF/DIVIDER PLAN DETAIL
SCALE: 1"=1'-0"

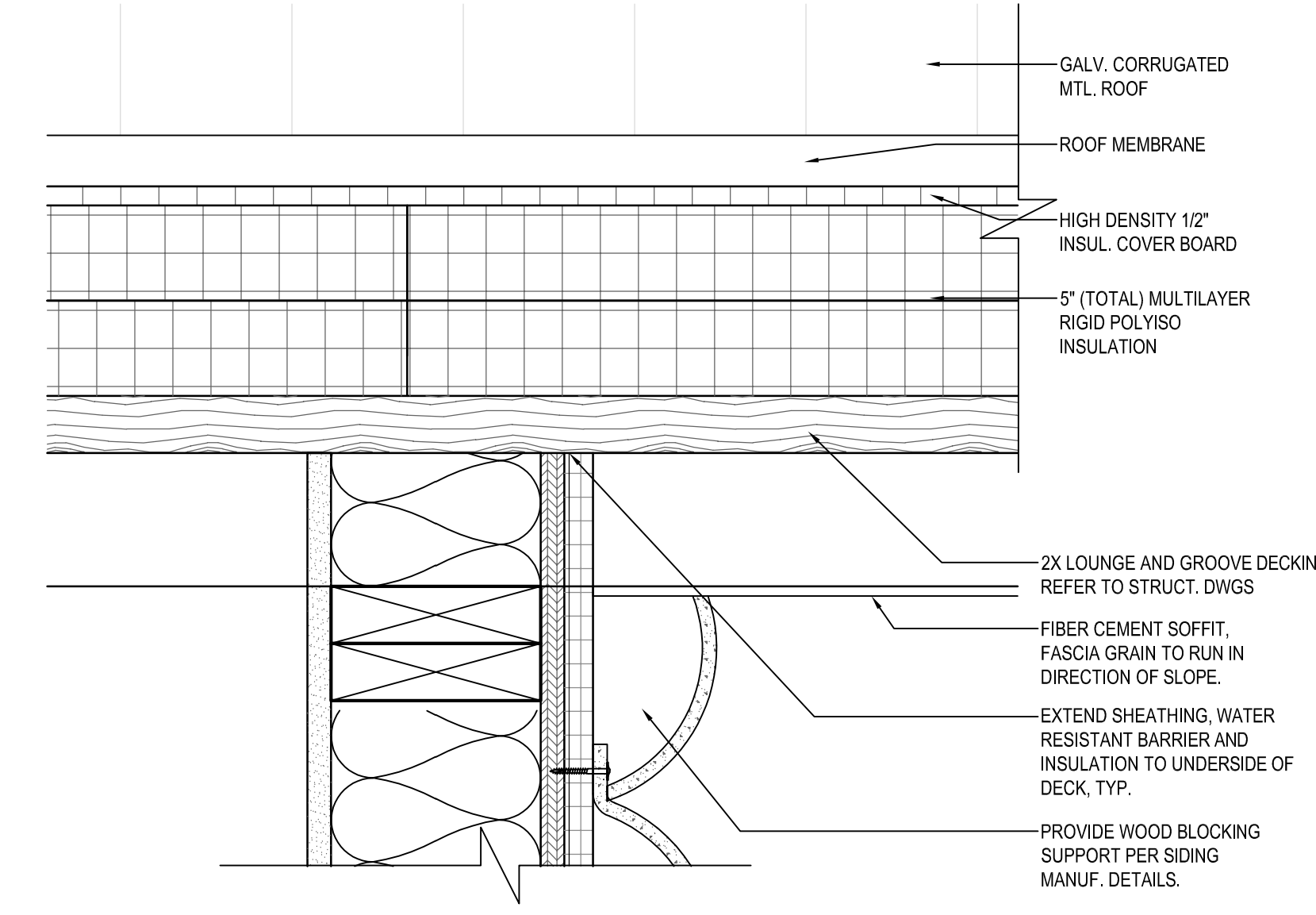


5 SHELF/DIVIDER DOOR DETAIL
SCALE: 1"=1'-0"

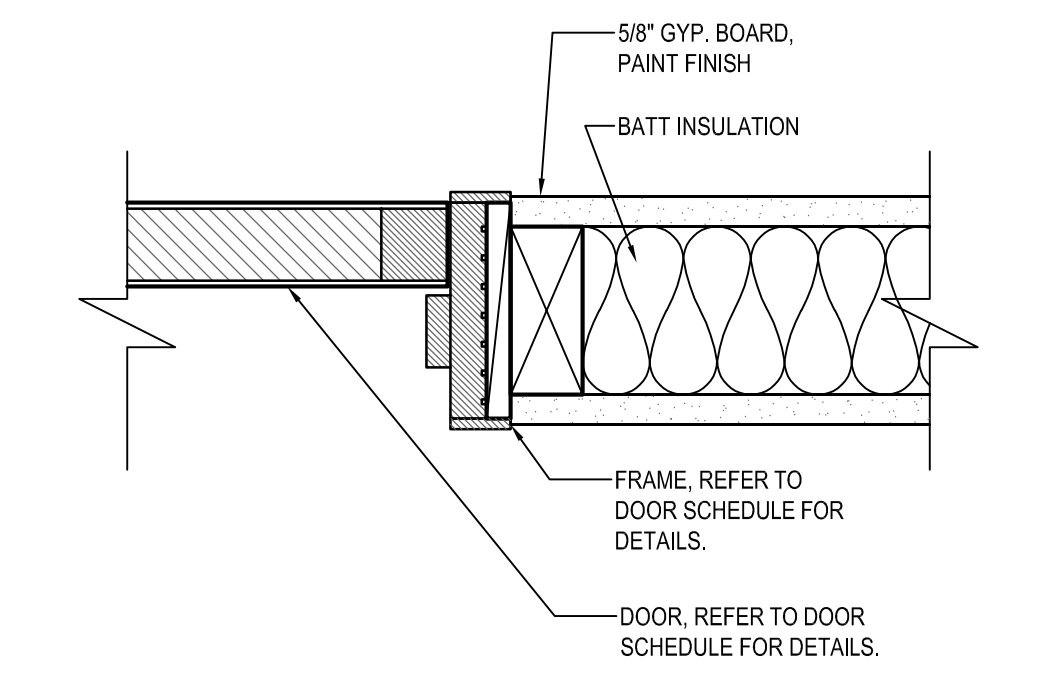
9 TYP. INTERIOR WOOD BASE
SCALE: 1"=1'-0"



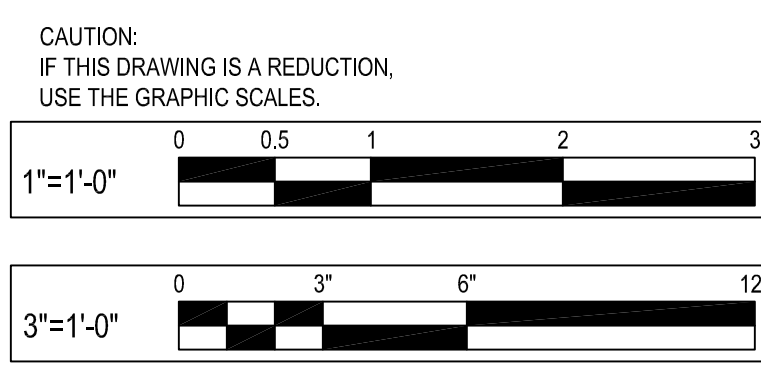
7 WOOD DOOR HEAD DETAIL
SCALE: 3"=1'-0"



6 ROOF DETAIL
SCALE: 3"=1'-0"



8 WOOD DOOR JAMB DETAIL
SCALE: 3"=1'-0"

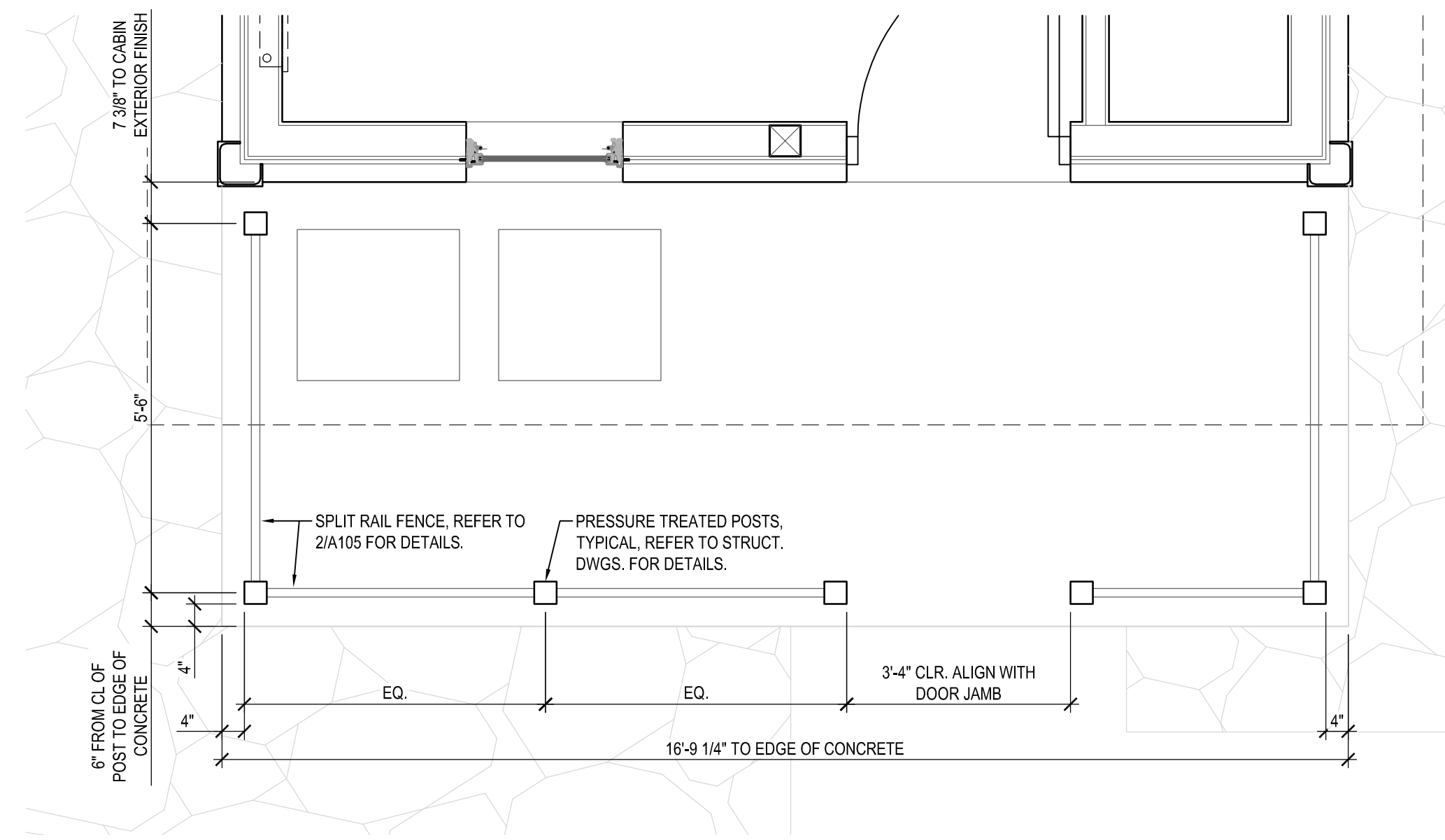


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License # 15613 Expiration Date: 11/28/24

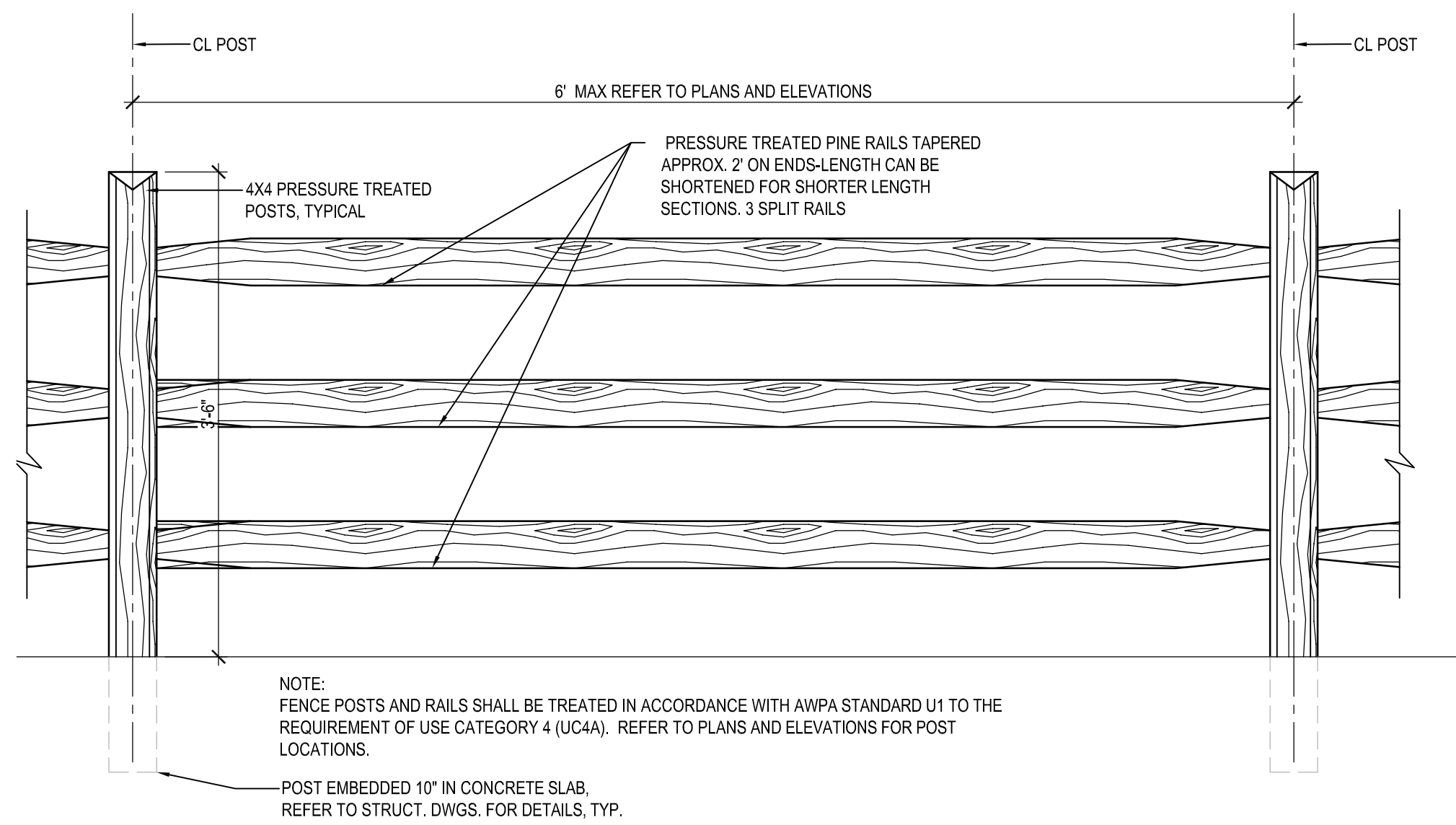
REVISIONS			
NO.	DESCRIPTION	BY	DATE

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	
SCALE:	A.D.M.	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION	
CHECKED BY:	B.F.	CABIN DETAILS	
SHEET NO.	37 OF 63	A105	
PROJECT NO.:	P584501		
CONTRACT NO.:	P584500		

BID SET

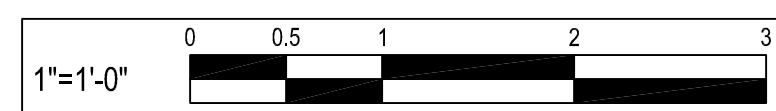
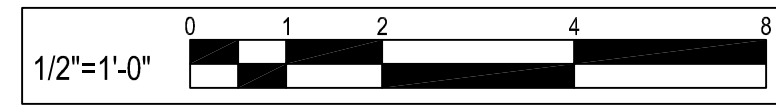


1 PART PLAN PATIO
 SCALE: 1/2"=1'-0"



2 SPLIT RAIL WOOD FENCE DETAIL
 SCALE: 1"=1'-0"

CAUTION:
 IF THIS DRAWING IS A REDUCTION,
 USE THE GRAPHIC SCALES.



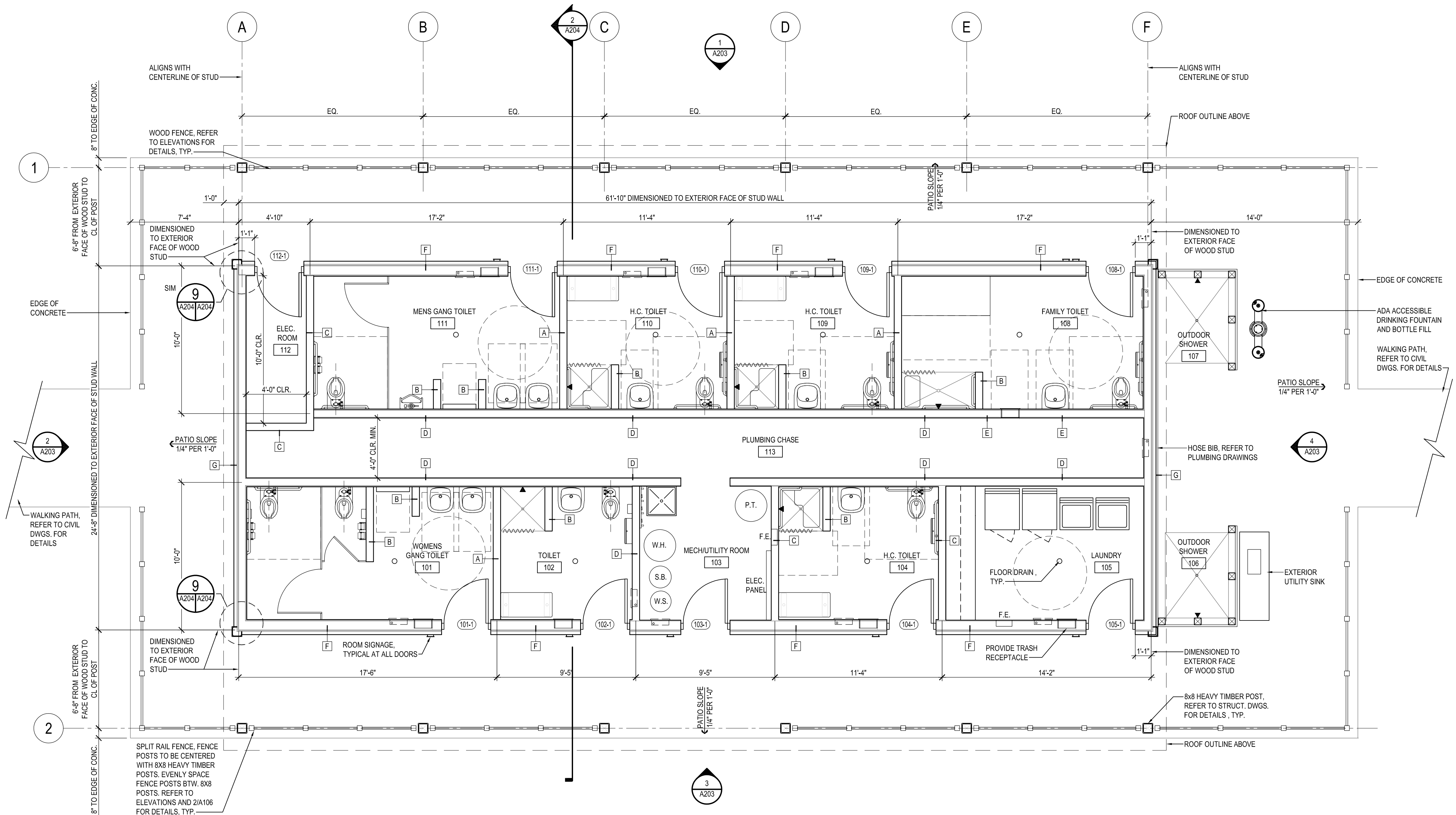
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NO.	DESCRIPTION	BY	DATE

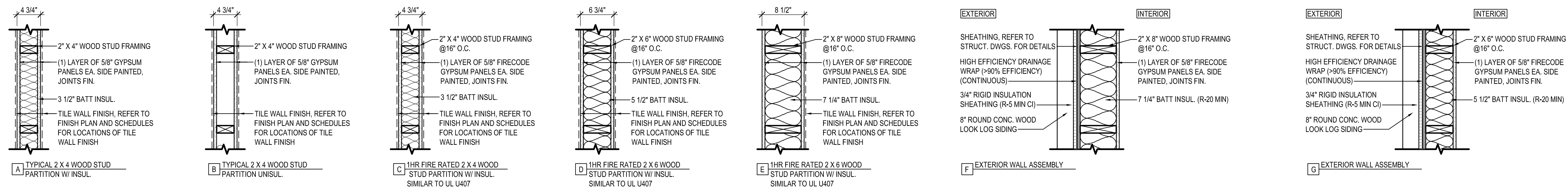
ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE:		JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION	
DRAWN BY: A.D.M.		CABIN DETAILS	
CHECKED BY: B.F.		A106	
SHEET NO. 38 OF 63		PROJECT NO.: P584501	
CONTRACT NO.: P584500			

BID SET

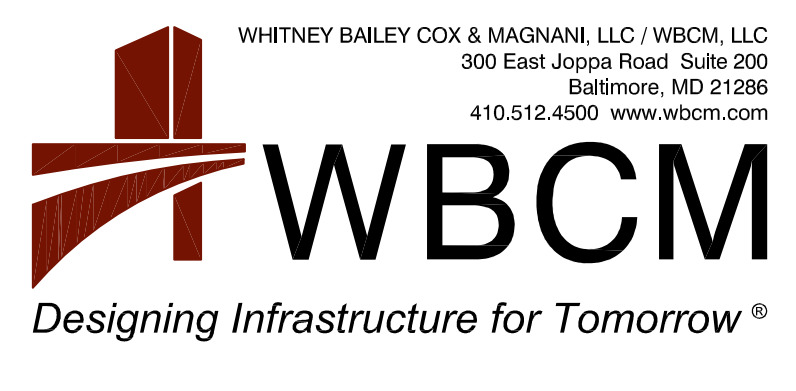
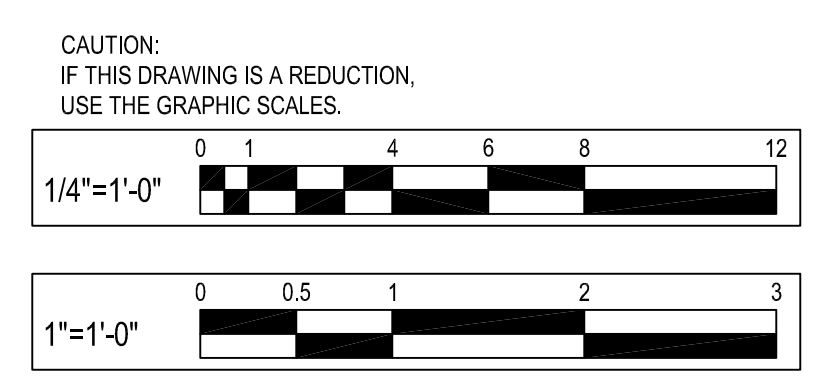
- ### GENERAL SHEET NOTES
- ALL WORK TO COMPLY WITH IBC 2018 REQUIREMENTS.
 - GENERAL CONTRACTOR TO COORDINATE ALL TRADES.
 - REFER TO A201 FOR ALL APPLICABLE GENERAL NOTES.
 - DIMENSIONS ON THIS SHEET DIMENSIONS ARE TO CENTER LINE OF WALL, UNO.
 - ALL EXPOSED EXTERIOR WOOD TO BE PRESSURE TREATED AND RECEIVE SEMI-TRANSPARENT STAIN FINISH, TYPICAL.
 - PROVIDE IN-WALL BLOCKING FOR ALL WALL-HUNG PLUMBING FIXTURES, BATHROOM PARTITIONS, BATHROOM ACCESSORIES, CASEWORK, AND MECHANICAL EQUIPMENT.



BATHHOUSE FLOOR PLAN
SCALE: 1/4"=1'-0"



BATHHOUSE WALL TYPES
SCALE: 1"=1'-0"



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APPROVED	DATE	APPROVED	DATE

SCALE:	
DRAWN BY:	A.D.M.
CHECKED BY:	B.F.
SHEET NO.:	39 OF 63
PROJECT NO.:	P584501
CONTRACT NO.:	P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
BATHHOUSE PLAN
A201

BID SET

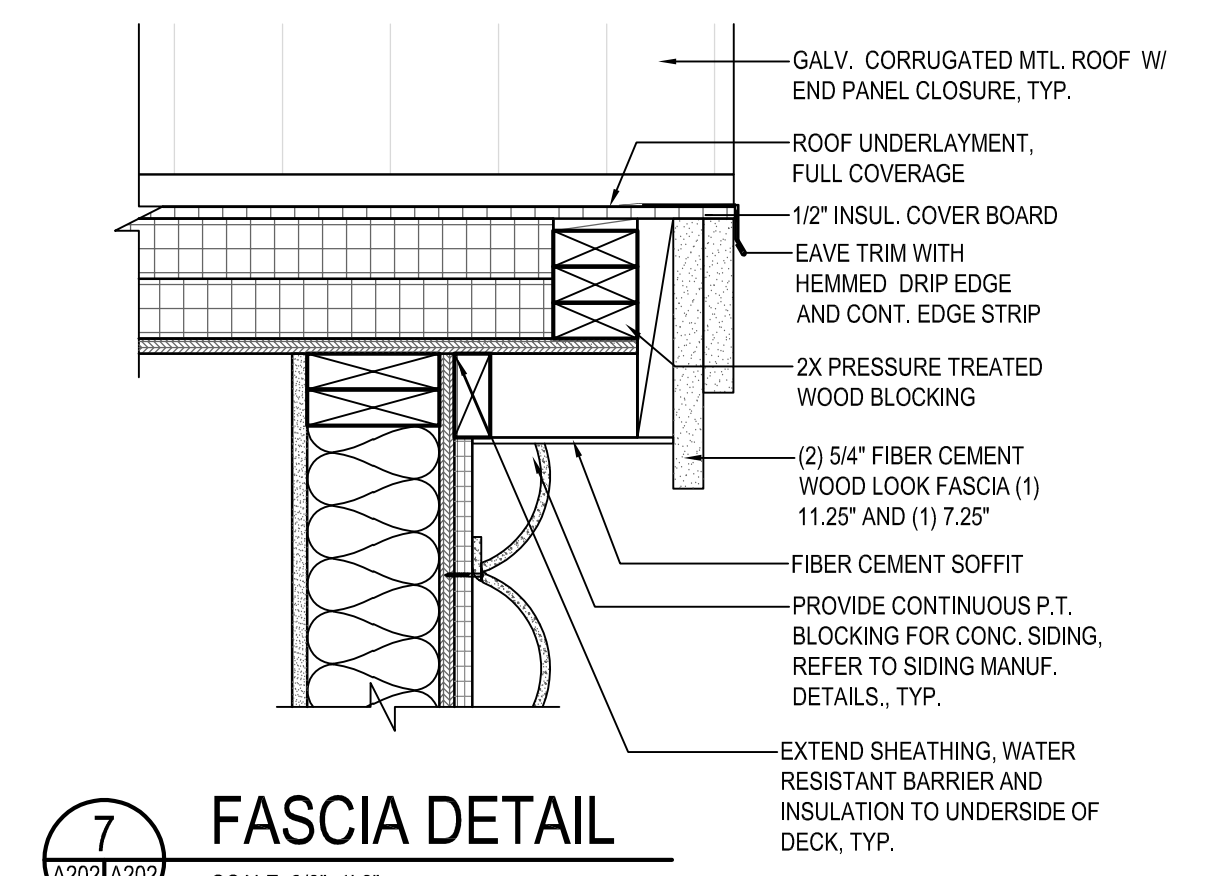
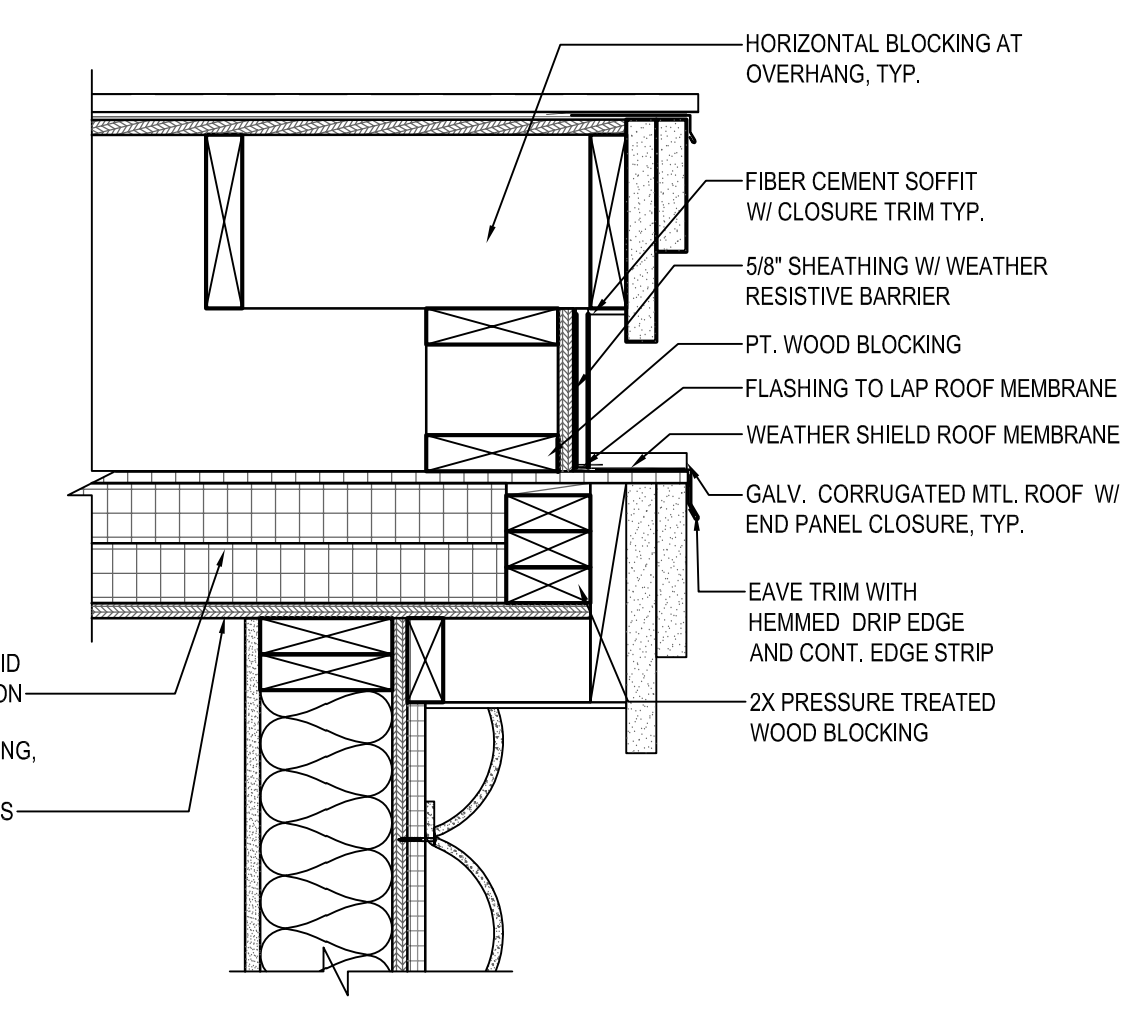
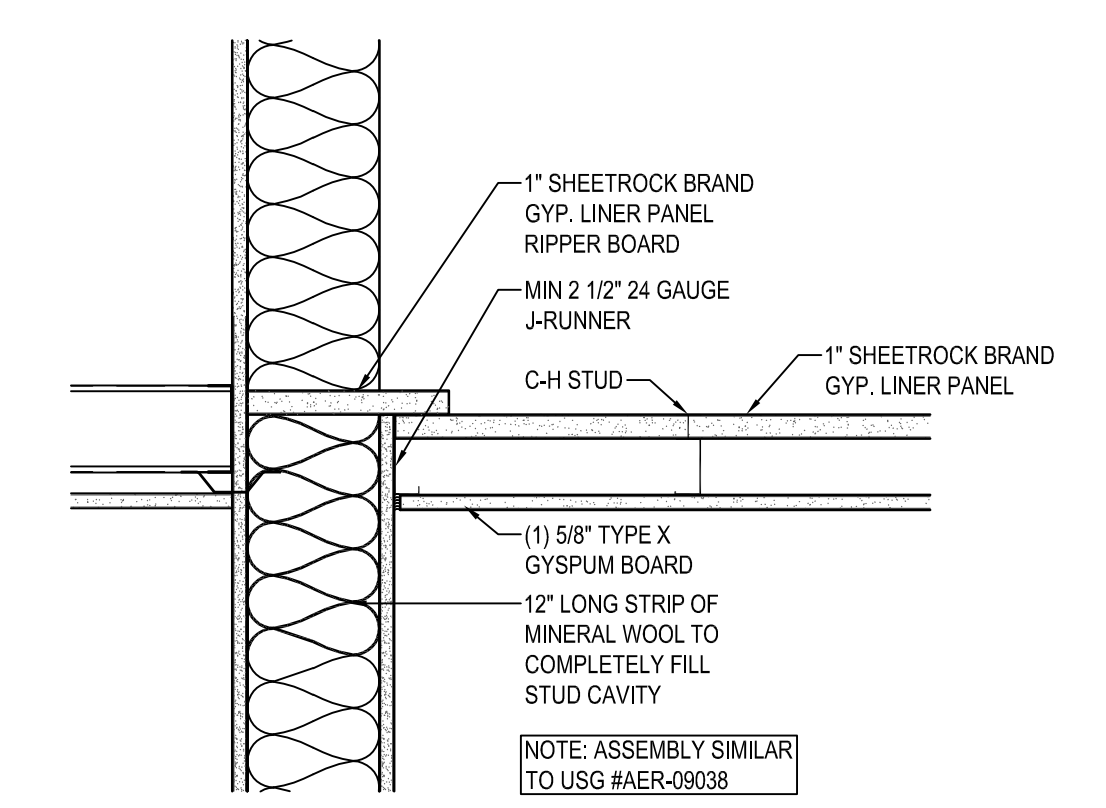
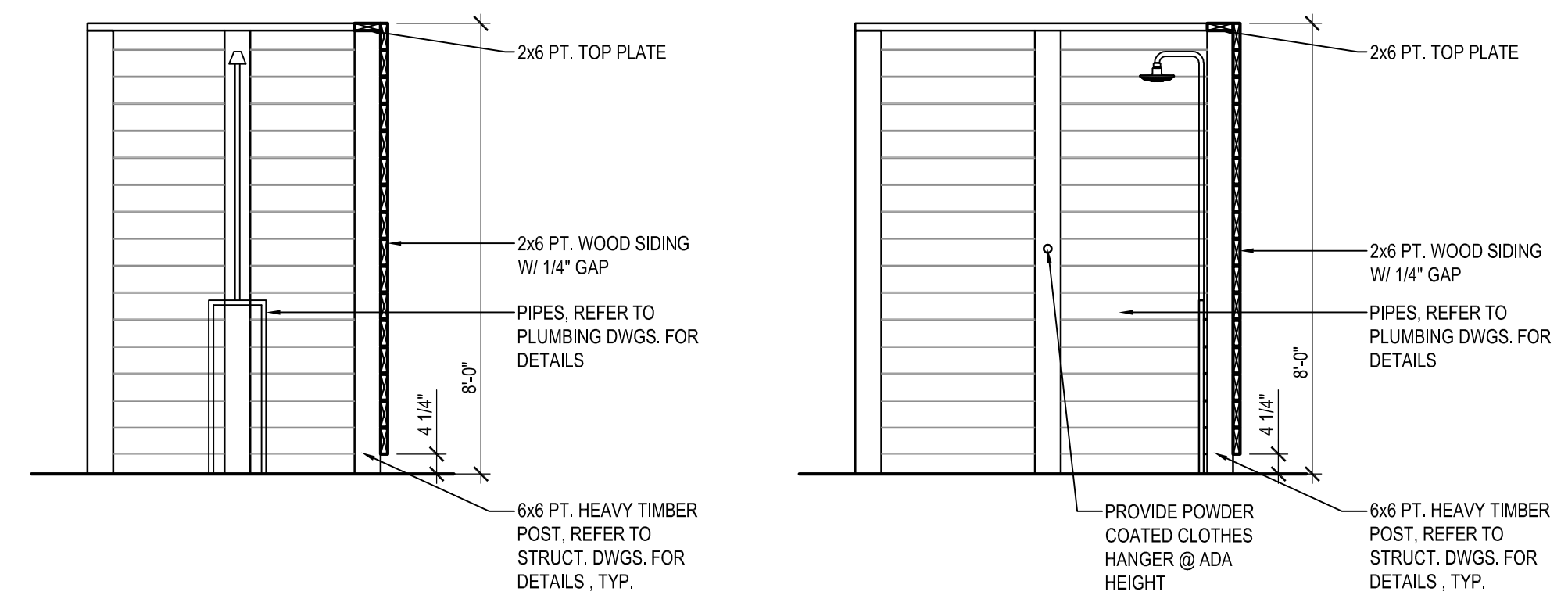
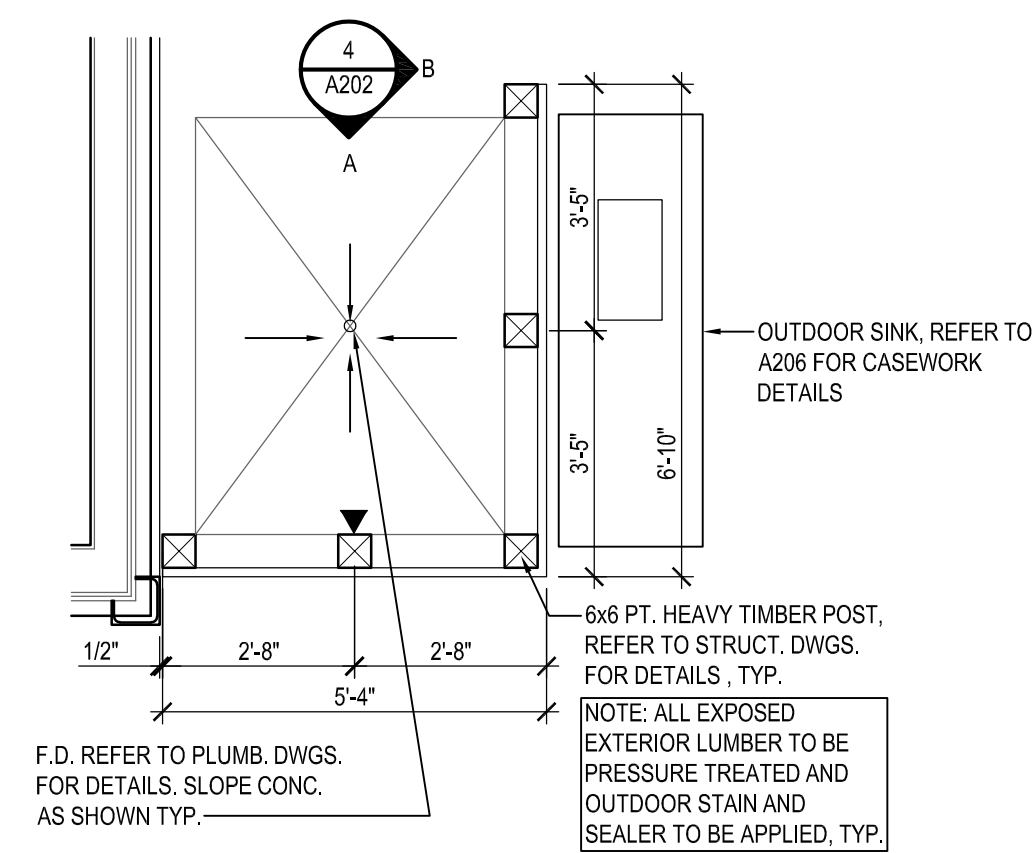
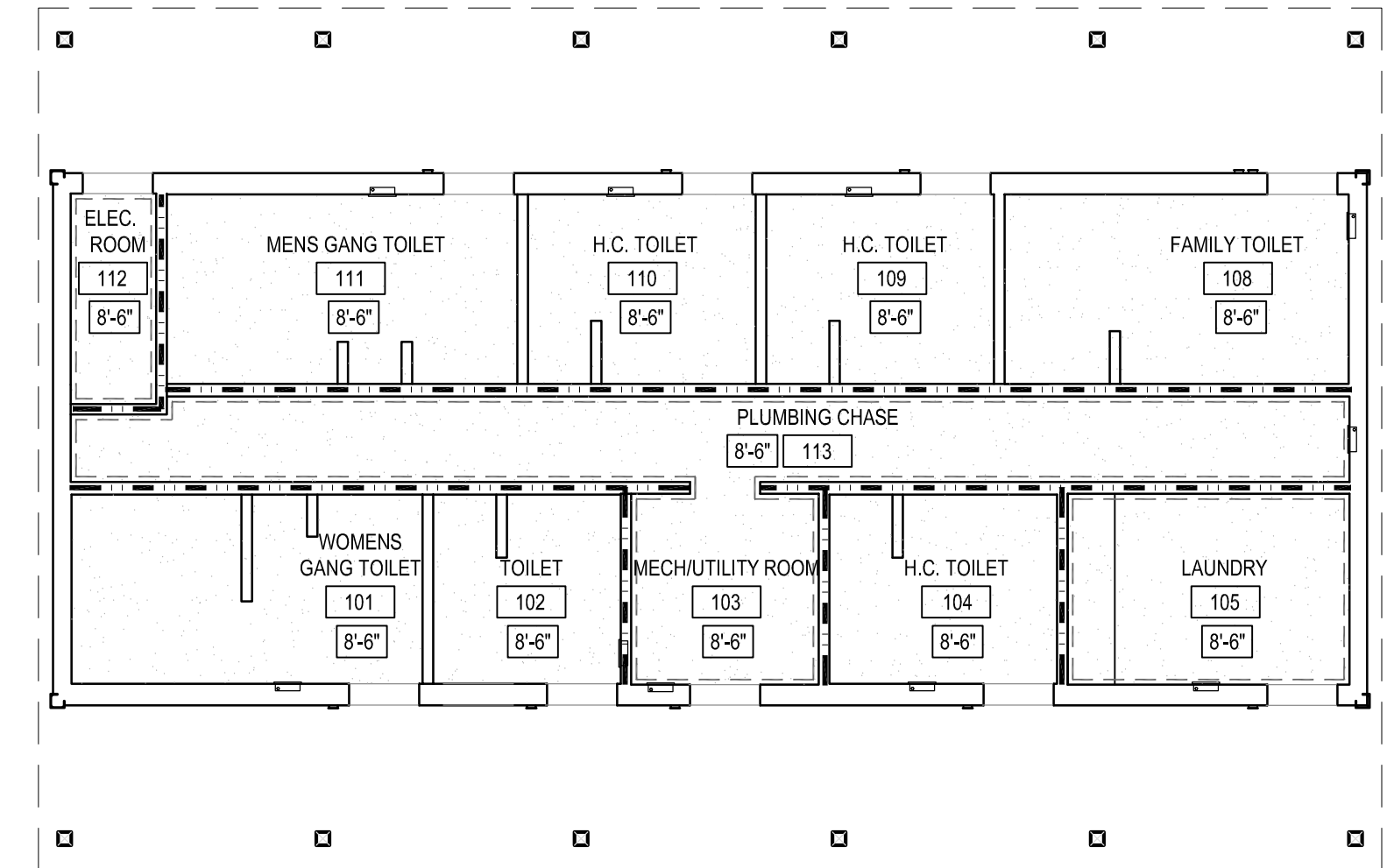
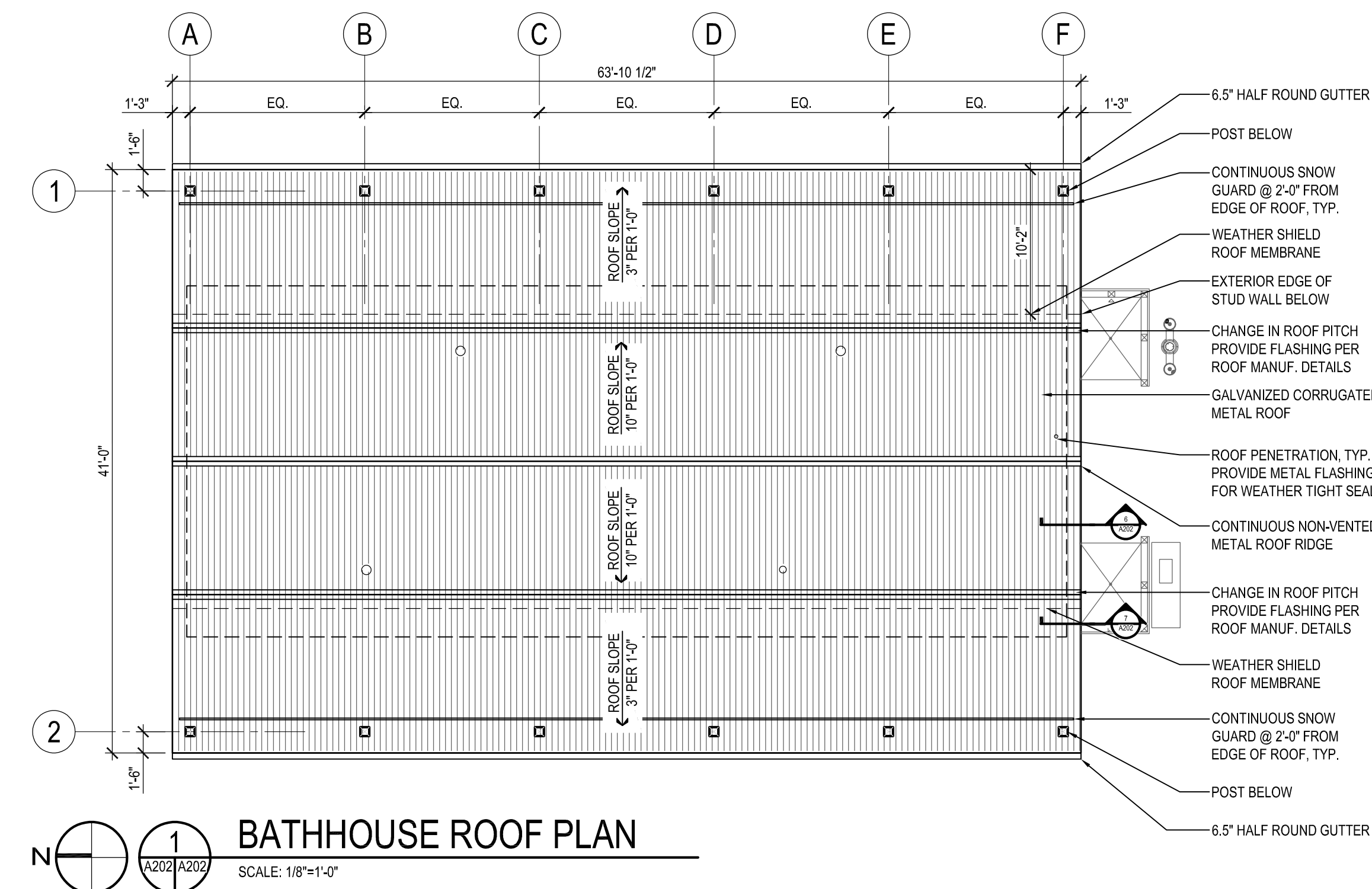
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GENERAL SHEET NOTES

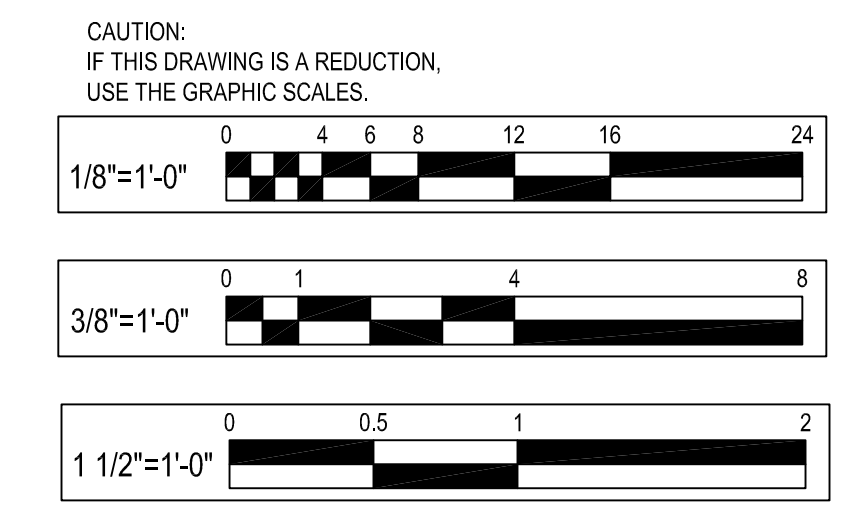
- REFER TO G SERIES FOR ARCHITECTURAL GENERAL NOTES
- FOR EXIT & EMERGENCY LIGHTING REFER TO ELECTRICAL DRAWINGS & SPECIFICATIONS
- FOR SWITCHING & WIRING REFER TO ELECTRICAL DRAWINGS & SPECIFICATIONS
- FIRE ALARM SYSTEM SHALL BE COORDINATED ON THE ELECTRICAL DRAWINGS & SPECIFICATIONS
- GYP SUM BOARD CEILINGS AND WALLS TO BE MOISTURE RESISTANT IN ALL TOILET ROOMS AND LAUNDRY ROOMS.
- REFER TO FINISH SCHEDULE FOR ALL CEILING HEIGHT INFORMATION
- LIGHT FIXTURES REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATIONS & VERIFICATION OF FIXTURE QUANTITIES
- ALL EXPOSED ELECTRICAL CONDUIT, PIPING, WIRING, AND HVAC EQUIPMENT SHALL BE LOCATED TO MINIMIZE VISIBILITY IN AREAS EXPOSED TO STRUCTURE OR EXPOSED MASONRY WALLS. RUN CONDUIT, PIPE AND WIRING ADJACENT TO COLUMNS VERTICALLY AND BEAMS HORIZONTALLY. MINIMIZE EXPOSURE TO THE GREATEST EXTENT POSSIBLE. PAINT ALL EXPOSED MATERIALS TO MATCH SUBSTRATE FOR ALL EXPOSED CONDUIT ALONG WALLS RUN IN DIRECTION TO MINIMIZE EXPOSURE
- FOR MOUNTING HEIGHTS OF LIGHT FIXTURES REFER TO ELECTRICAL DRAWINGS.
- ACCESS PANEL LOCATIONS TO BE PROVIDED BY CONTRACTOR TO ARCHITECT FOR APPROVAL

CEILING LEGEND

	INSTALL RECESSED DOWNLIGHT IN CEILING SYSTEM. EXTERIOR DOWNLIGHTS TO BE WEATHER PROOF. REFER TO ELEC. DWGS.
	1 HR RATED WALL CONSTRUCTION
	GYP SUM BOARD CEILING, FINISH JOINTS, PAINTED FINISH
	PROVIDE 1HR FIRE RATED CEILING ASSEMBLY, REFER TO 5/202



NOTE: PROVIDE FIRE RATED CEILING ASSEMBLY IN THE FOLLOWING LOCATIONS:
 1. LAUNDRY ROOM
 2. MECHANICAL UTILITY ROOM
 3. PLUMBING CHASE
 4. ELEC. ROOM



BID SET

WHITNEY BAILEY COX & MAGNANI, LLC / WBCM, LLC
 300 East Joppa Road, Suite 200
 Baltimore, MD 21286
 410.512.4500 www.wbcm.com

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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	

SCALE: _____
 DRAWN BY: A.D.M.
 CHECKED BY: B.F.
 SHEET NO. 40 OF 63
 PROJECT NO.: P584501
 CONTRACT NO.: P584500

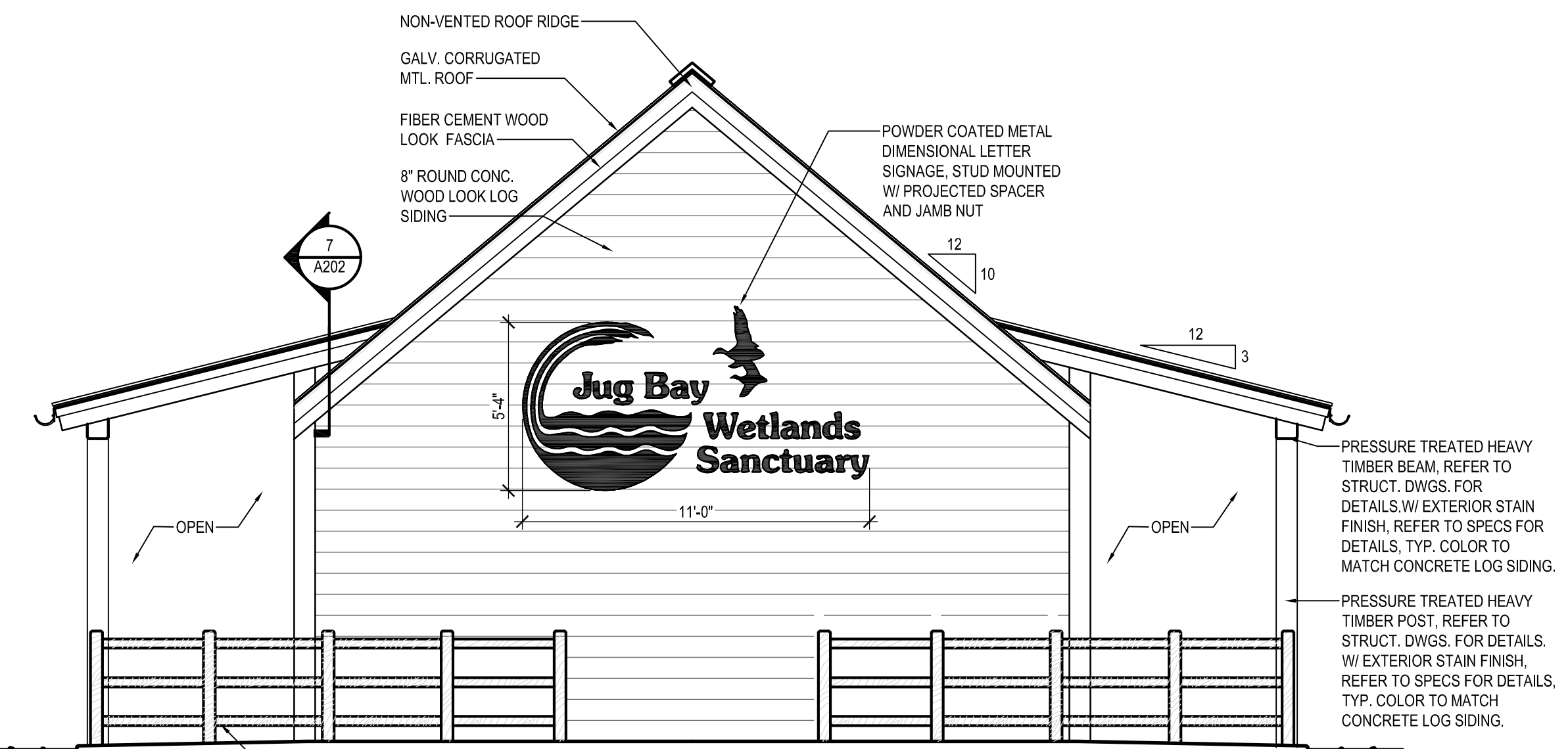
JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
BATHHOUSE ROOF PLAN AND REFLECTED CEILING PLAN

A202

P:\2017\17141806\Drawings\01-Arch\17141806_A201 - BATH HOUSE DRAWINGS.dwg Nov 07, 2023 - 9:28am Plot By: dmarkakis



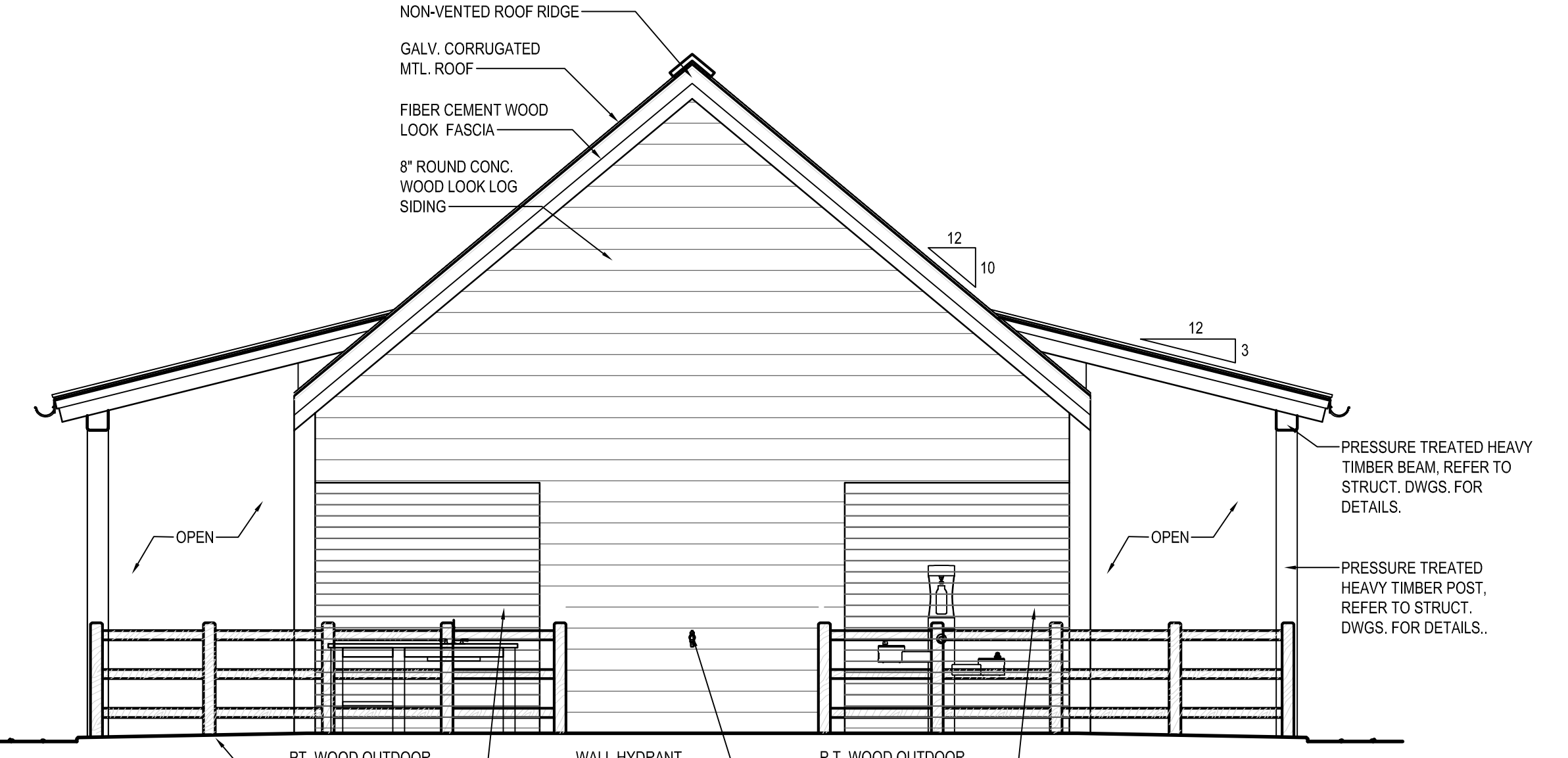
1 BATHHOUSE EAST ELEVATION
SCALE: 1/4"=1'-0"



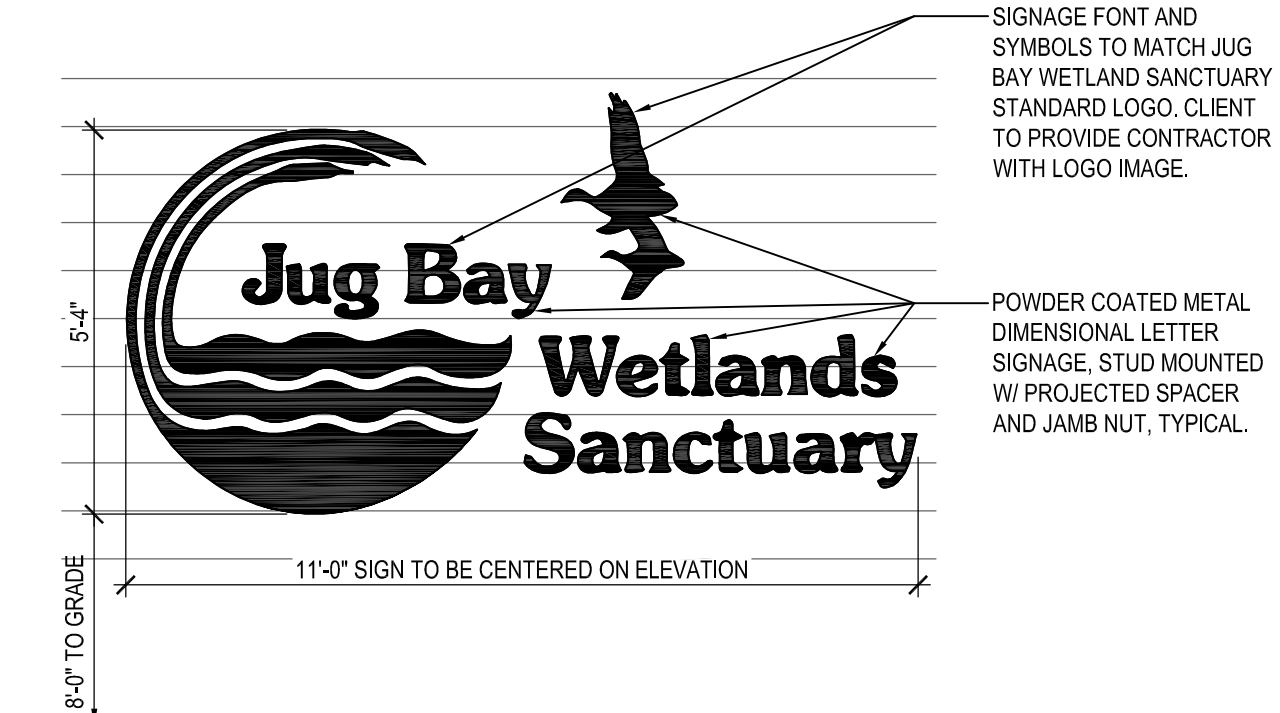
2 BATHHOUSE NORTH ELEVATION
SCALE: 1/4"=1'-0"



1 BATHHOUSE WEST ELEVATION
SCALE: 1/4"=1'-0"



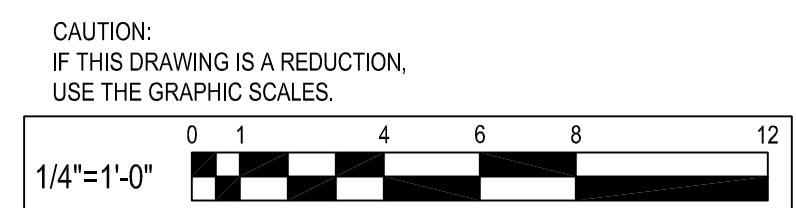
4 BATHHOUSE SOUTH ELEVATION
SCALE: 1/4"=1'-0"



5 BATHHOUSE DIMENSIONAL LETTER SIGNAGE ELEVATION
SCALE: 3/8"=1'-0"

EXTERIOR FINISH LEGEND

1. ROOF	CORRUGATED METAL ROOF, MILL FINISH.
2. CONCRETE LOG SIDING	8" ROUND CONC. WOOD LOOK LOG SIDING BASIS OF DESIGN: EVERLOG SYSTEMS COLOR: NATURAL BROWN
3. FASCIA: HARDIETRIM BOARDS	COLOR: SOMBER BROWN 0081 FINISH: SELECT CEDARMILL
4. HARDIESOFFIT PANELS	COLOR: SOMBER BROWN 0081; FINISH: VENTED AND NON VENTED SELECT CEDARMILL
5. DOOR FINISH	BASIS OF DESIGN: PELLA FIBERGLASS DOORS COLOR: PRE-FINISHED PAINT OR STAIN, ARCHITECT TO SELECT FROM FULL RANGE OF PREFINISHED STAINS AND PAINTS
6. DOOR TRIM: HARDIETRIM	COLOR: ARIZONA DESERT
7. EXT. HEAVY TIMBER POSTS AND BEAMS	EXTERIOR SEMI-TRANSPARENT STAIN, COLOR TO MATCH CONCRETE LOG SIDING.
8. WOOD FENCE, SHOWER ENCLOSURE AND MILLWORK	EXTERIOR SEMI-TRANSPARENT STAIN. BASIS OF DESIGN: BENJAMIN MOORE ARBORCOAT, COLOR: ALEXANDRA BEIGE



Whitney Bailey Cox & Magnani, LLC / WBCM, LLC
300 East Joppa Road, Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

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APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	

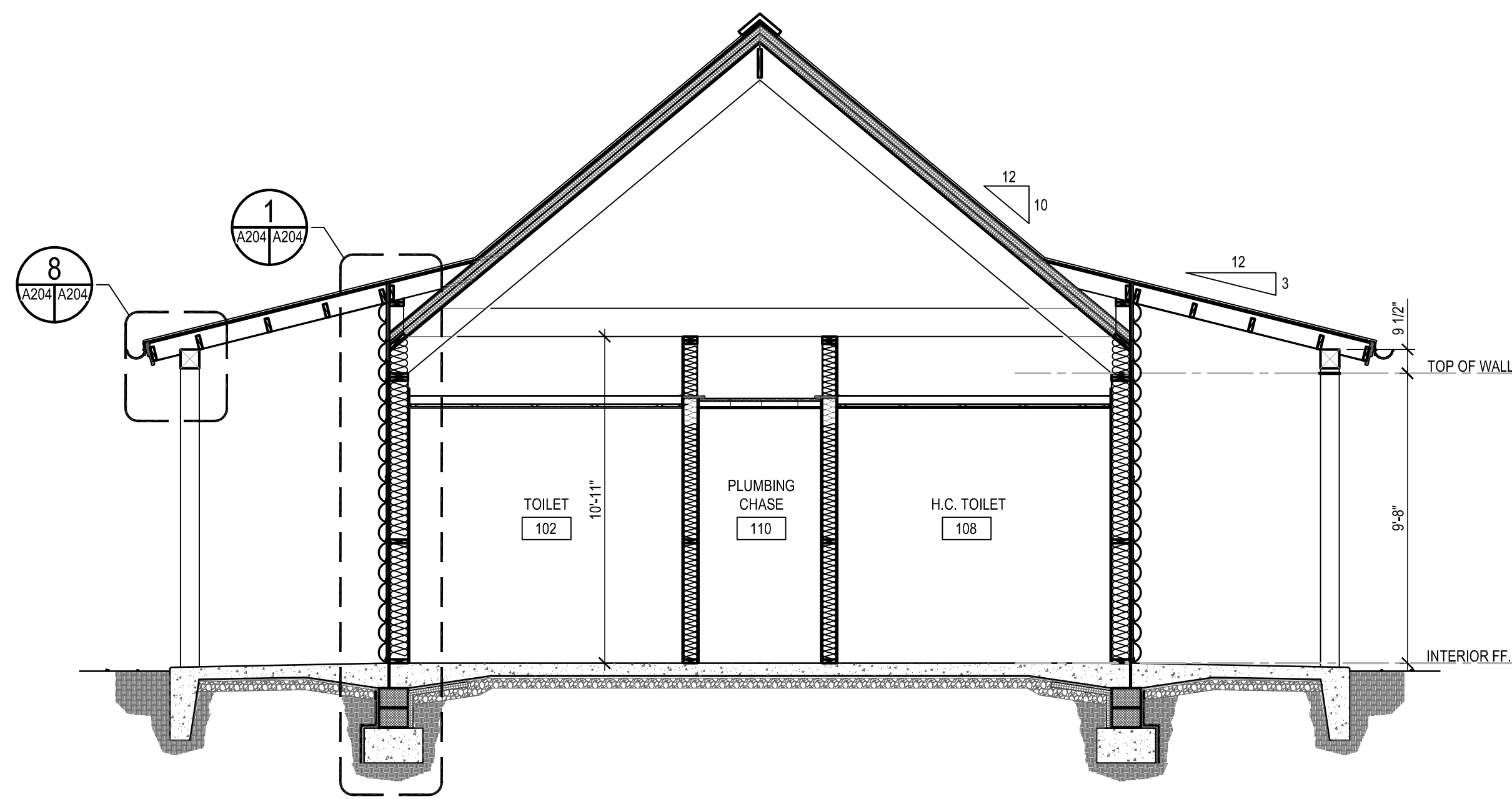
SCALE: A.D.M.
CHECKED BY: B.F.
SHEET NO. 41 OF 63
PROJECT NO.: P584501
CONTRACT NO.: P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
BATHHOUSE ELEVATIONS

A203

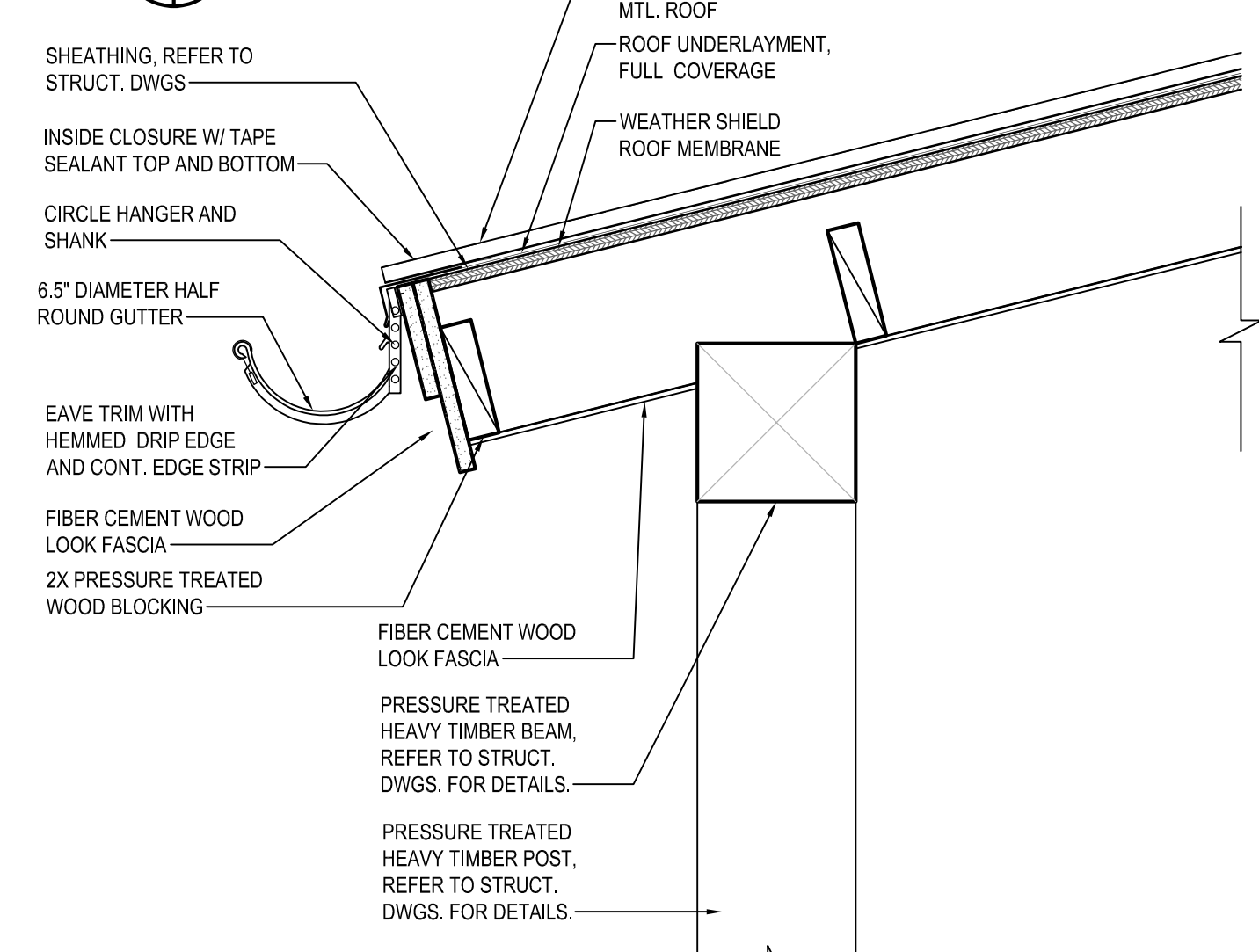
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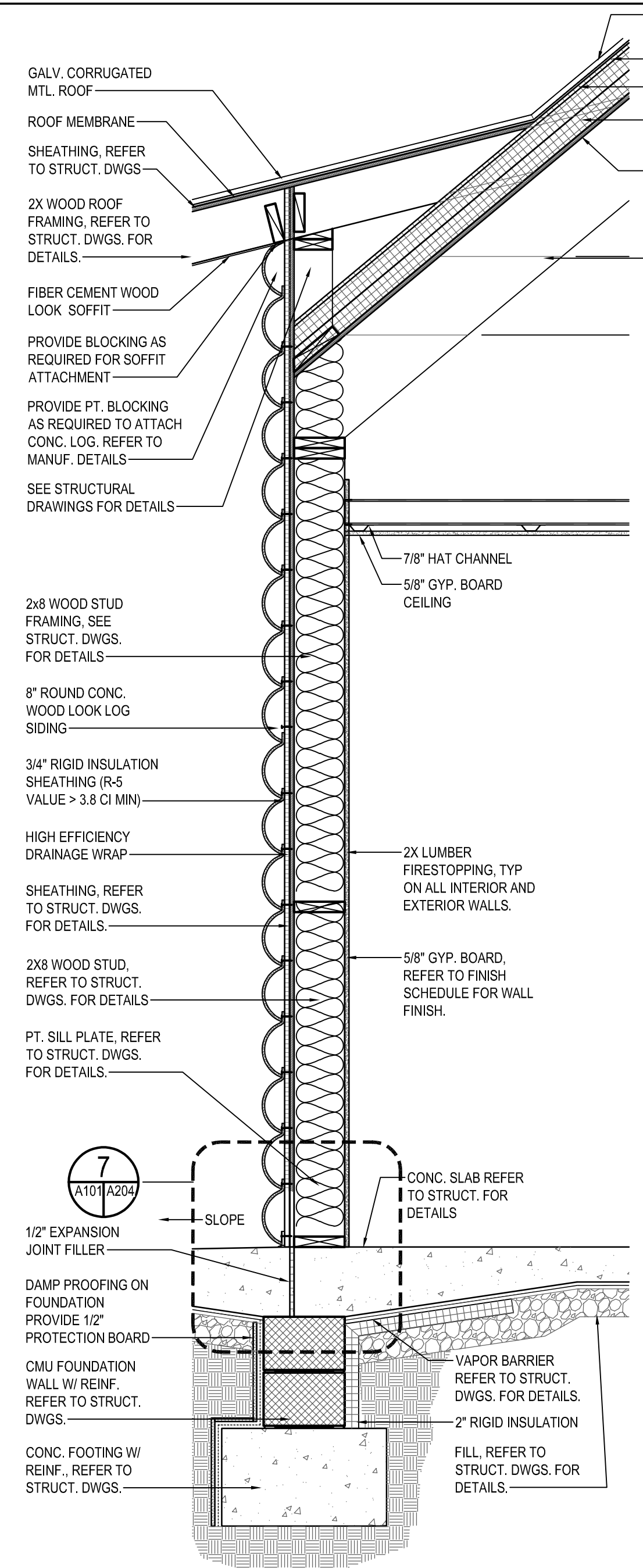
1 BATHHOUSE SECTION

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



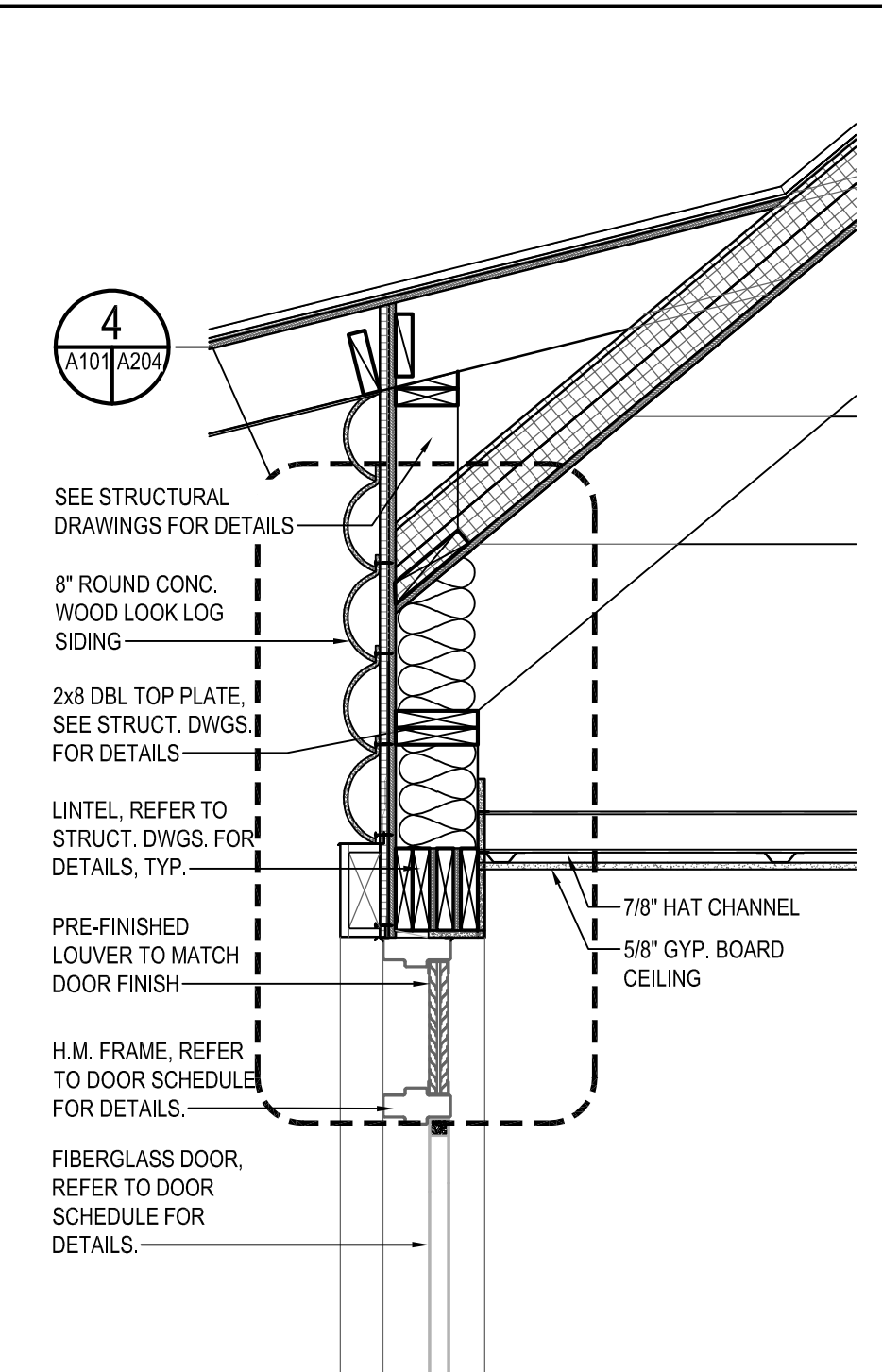
8 GUTTER EAVE DETAIL

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



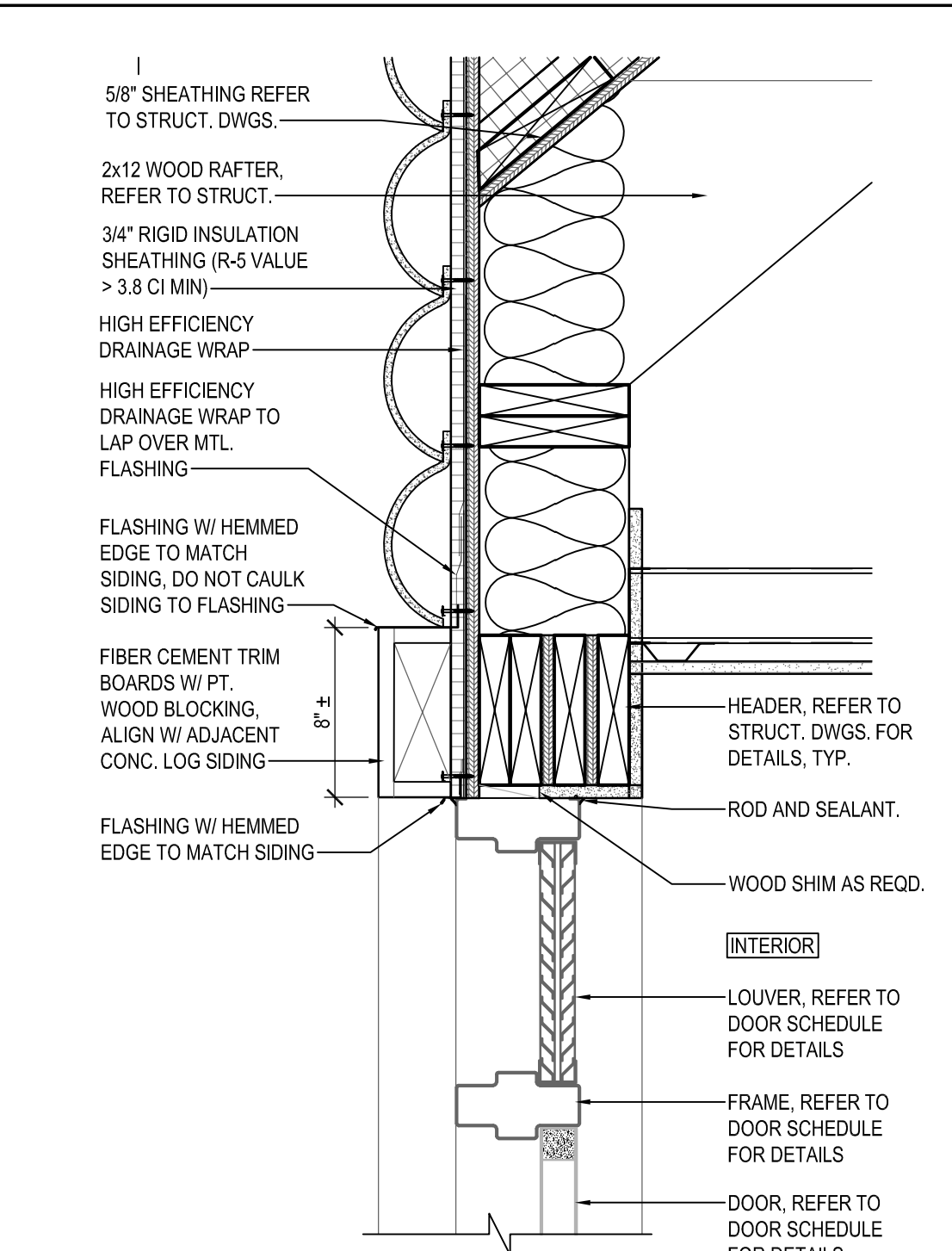
2 BATHHOUSE WALL SECTION

SCALE: 3/4"=1'-0"



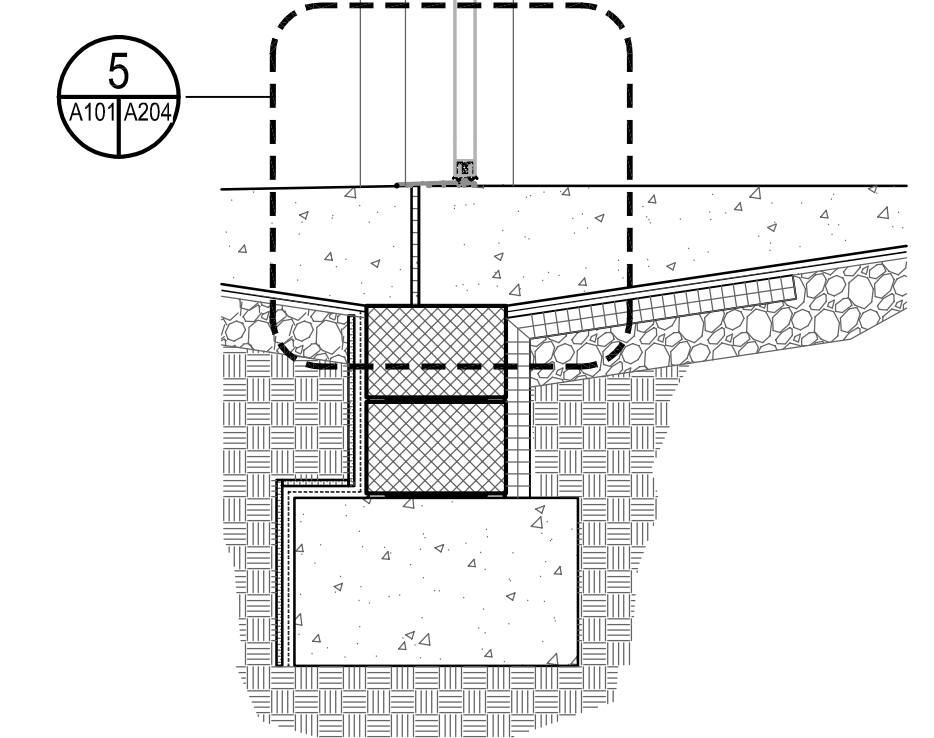
3 SECTION @ TYPICAL EXTERIOR DOOR

SCALE: 3/4"=1'-0"



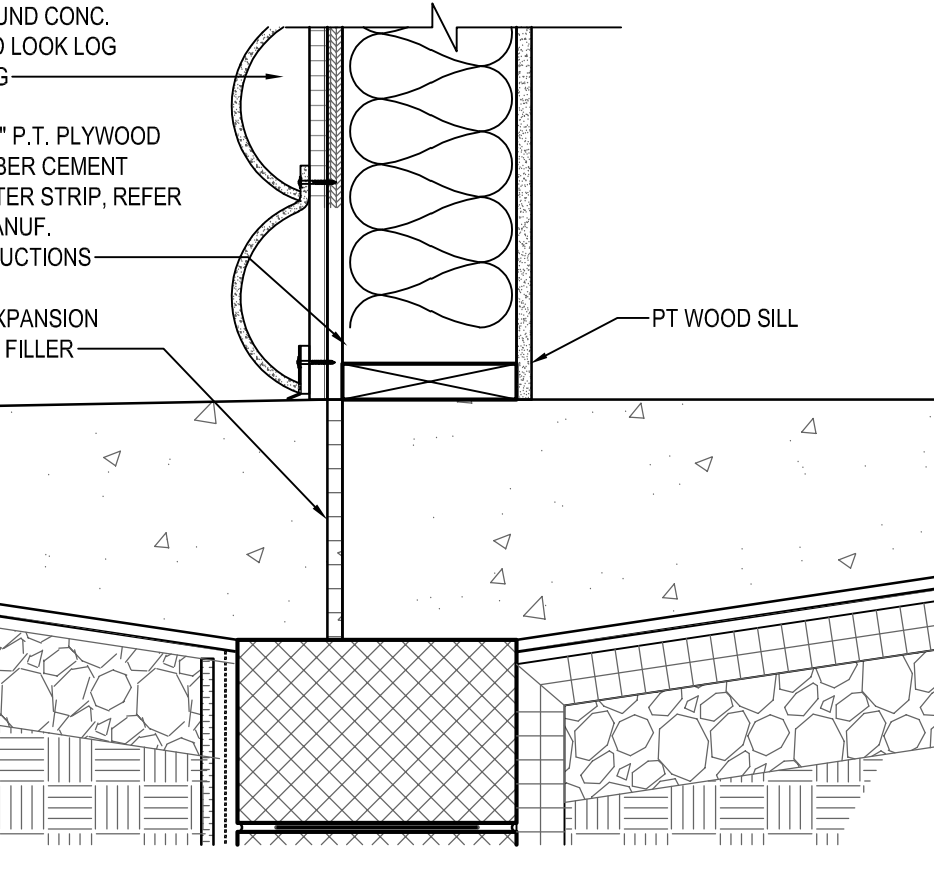
4 HEAD DETAIL

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



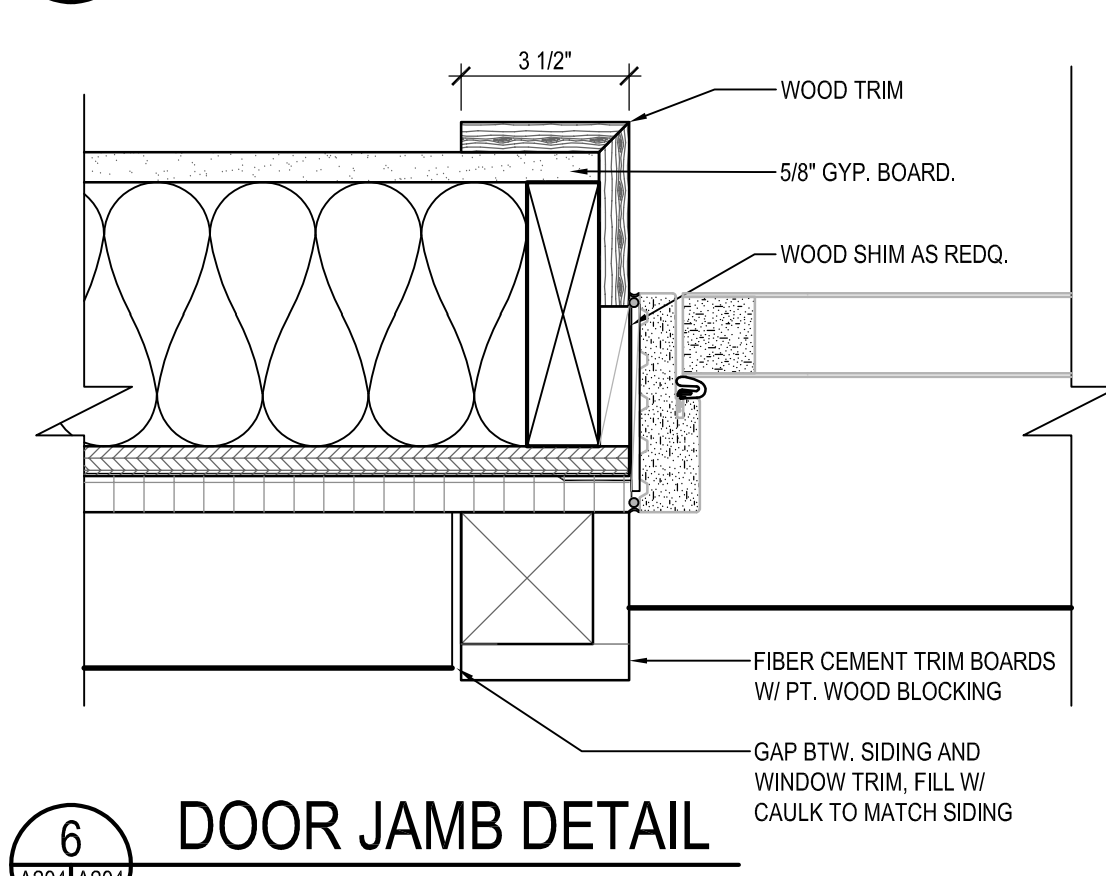
5 SILL DETAIL

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



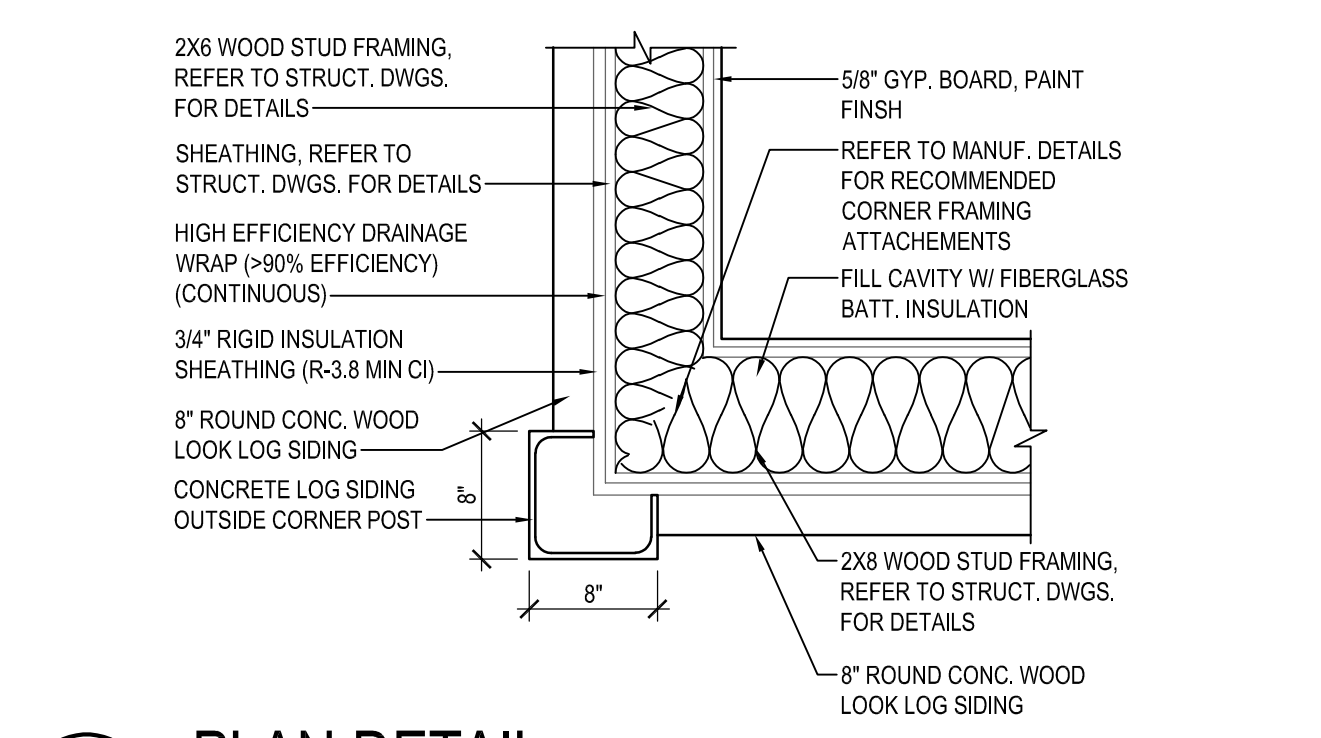
7 DETAIL

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



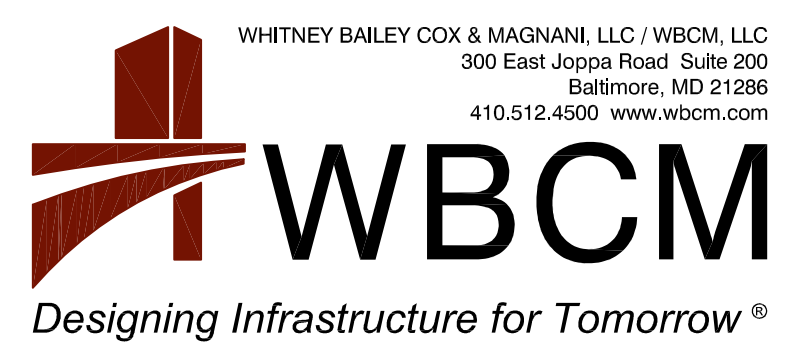
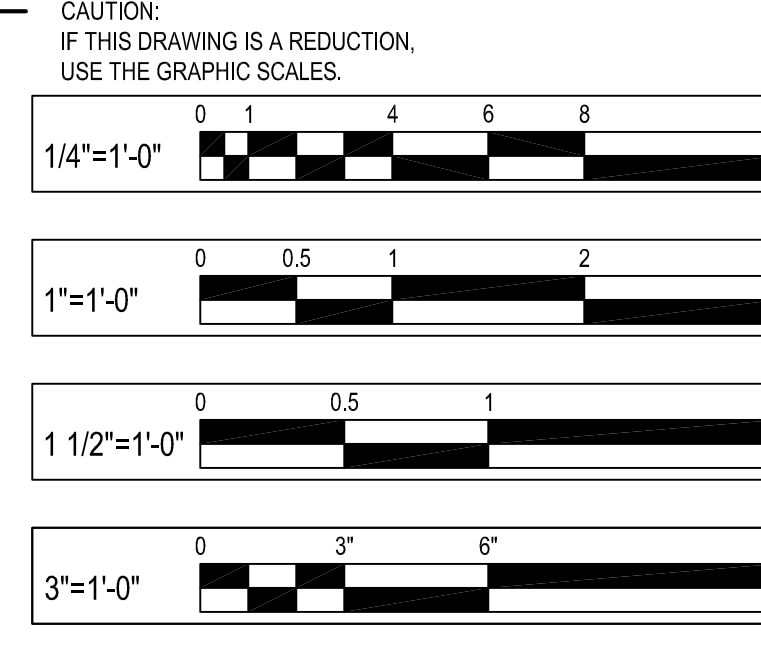
6 DOOR JAMB DETAIL

SCALE: 3"=1'-0"



9 PLAN DETAIL

SCALE: 1"=1'-0"



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APPROVED	DATE	APPROVED	DATE

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DRAWN BY:	A.D.M.
CHECKED BY:	B.F.
SHEET NO.:	42 OF 63
PROJECT NO.:	P584501
CONTRACT NO.:	P584500

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
BATHHOUSE SECTIONS
A204

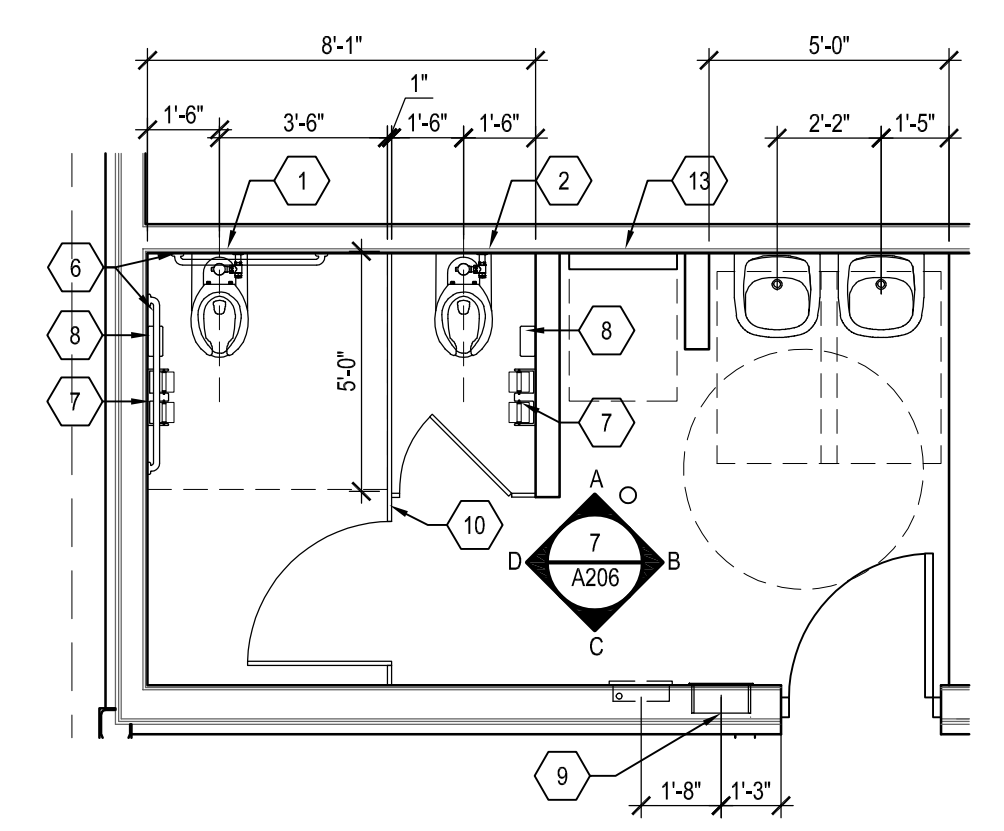
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TOILET ROOM SHEET NOTES

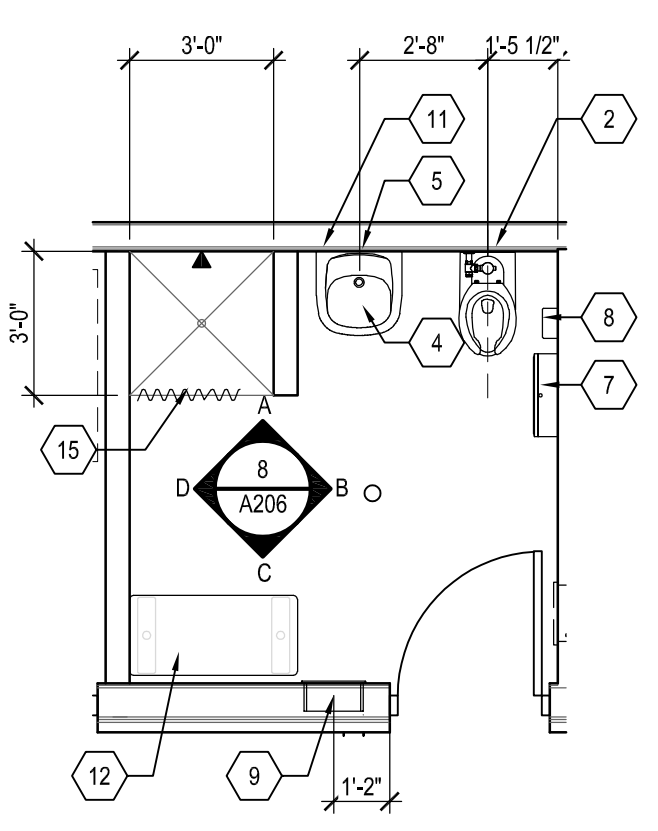
1. PROVIDE WOOD BLOCKING FOR ALL TOILET ROOM ACCESSORIES PER MANUFACTURES INSTALLATION INSTRUCTIONS.
2. FOR ALL SEALANT TYPE REFER TO SPECIFICATIONS.
3. ALL ACCESS PANELS SHALL BE FLUSH MOUNTED WITH FLANGE AND LATCH. ACCESS PANELS IN CEILING AS REQUIRED. REFER TO PLUMBING DRAWINGS.
4. REFER TO PLUMBING DRAWINGS FOR DRAIN LOCATIONS.
5. ACCESS PANELS TO BE PROVIDED IN WALLS @ CLEANOUT LOCATIONS IN GANG BATHROOMS. REFER TO PLUMBING DRAWINGS FOR CLEANOUT LOCATIONS.
6. DIMENSIONS ON THIS SHEET SHOWN ARE CLEAR DIMENSIONS TO FINISH FACE OF WALL INCLUDING TILE WALL FINISH, UNLESS SHOWN OTHERWISE.
7. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS, SLOPE CONC. SLAB TO FLOOR DRAIN.
8. PROVIDE FIRE RETARDANT PLYWOOD BEHIND ELECTRICAL PANELS AS REQUIRED, REFER TO MEP DRAWINGS FOR DETAILS.

TOILET ROOM SHEET KEYNOTES

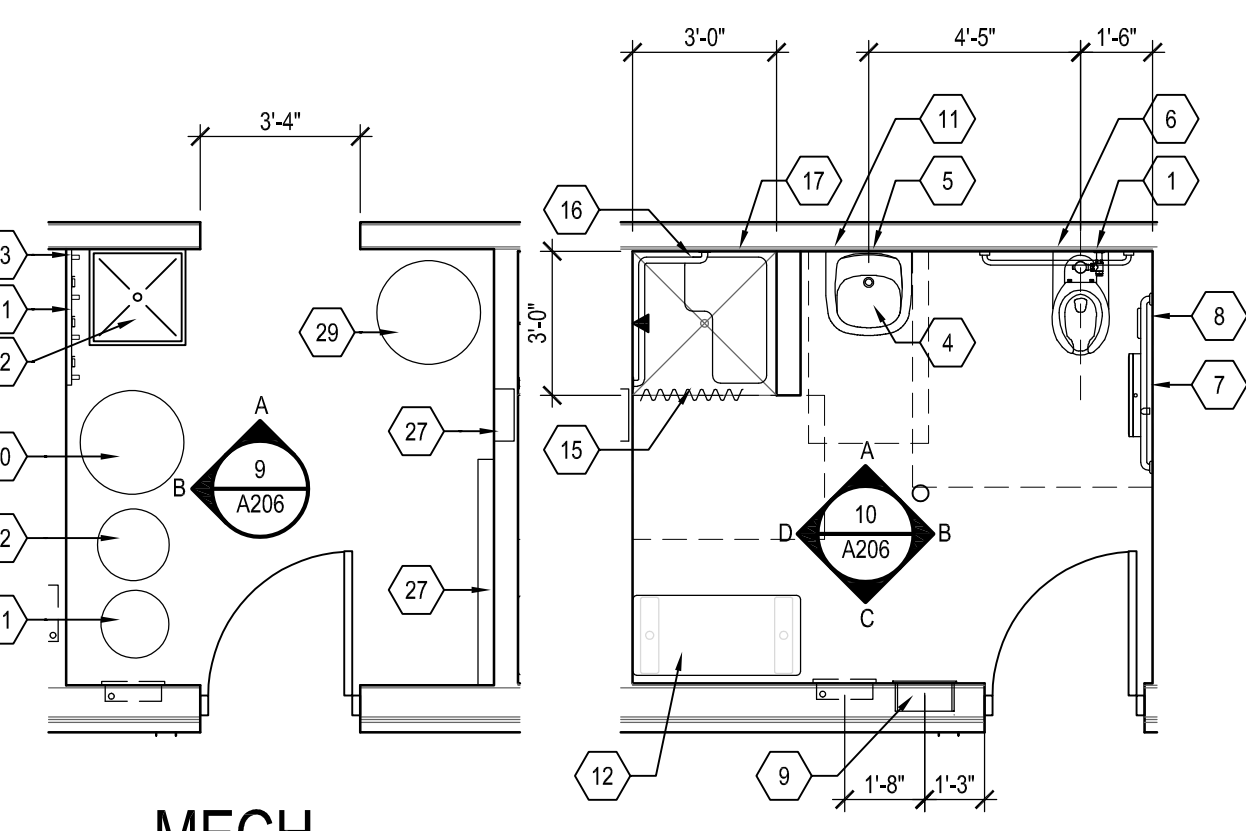
1. WALL MOUNTED WATER CLOSET WITH MANUAL FLUSH VALVE. MOUNTED AT HANDICAP HEIGHT.
2. WALL MOUNTED WATER CLOSET WITH MANUAL FLUSH VALVE. MOUNTED AT STANDARD HEIGHT.
3. WALL MOUNTED URINAL WITH MANUAL FLUSH VALVE. MOUNTED AT HANDICAP HEIGHT.
4. WALL MOUNTED SINK. BASIS OF DESIGN AMERICAN STANDARD MURRO UNIVERSAL DESIGN WALL-HUNG LAVATORY WITH EVERCLEAN AND VITREOUS CHINA SHROUD.
5. SINK FAUCET. BASIS OF DESIGN AMERICAN STANDARD MONTERREY SINGLE CONTROL CENTERSET FAUCET.
6. BRUSHED STAINLESS STEEL HANDICAP GRAB BARS AT TOILET ROOM. MOUNTED AT ADA HANDICAP HEIGHT.
7. 3-0" L SIMILAR TO BOBRICK MODEL NO. B-6806X36 (HORIZONTALLY REAR WALL)
8. 3-0" L SIMILAR TO BOBRICK MODEL NO. B-6806X42 (HORIZONTALLY SIDE WALL)
9. 2-0" L SIMILAR TO BOBRICK MODEL NO. B-6806X24 (VERTICALLY SIDE WALL)
10. SURFACE MOUNTED DOUBLE ROLL TOILET PAPER DISPENSER.
11. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL WITH BRUSHED METAL FINISH. MOUNTED AT STANDARD HEIGHT.
12. RECESSED WASTE RECEPTACLE. BASIS OF DESIGN AMERICAN SPECIALTIES INC. RECESSED COLLECTION WASTE RECEPTACLE. MODEL #6459.
13. FLOOR MOUNTED HDPE TOILET COMPARTMENT PARTITIONS. ARCHITECT TO SELECT FINISH COLOR WITH STAINLESS STEEL HARDWARE.
14. MIRROR MOUNTED AT HANDICAP HEIGHT. BASIS OF DESIGN AMERICAN SPECIALTIES INC. MATTE BLACK STAINLESS STEEL INTER-LOK ANGLE FRAME MIRROR, 0600-41 SERIES.
15. HANDICAP ACCESSIBLE FLOOR MOUNTED CHANGING BENCH. 20" W X 42" X 18.5" H. BASIS OF DESIGN HOLLMAN HILO COLLECTION. BLACK MATTE. POWDER-COATED METAL LEGS. BLACK GRANITE SOLID SURFACE TOP.
16. SURFACE MOUNTED VERTICAL POLYPROPYLENE BABY CHANGING STATION. BASIS OF DESIGN KOALA KARE MODEL KB301-05.
17. LIGHT SWITCH. REFER TO ELEC. DWGS. FOR DETAILS.
18. VINYL CURTAIN AND ROD.
19. HANDICAP ACCESSIBLE SHOWER WITH BUILT IN "L" SHAPED GRAB BARS AT STANDARD ADA HEIGHT.
20. ADA ACCESSIBLE "L" SHAPED SHOWER BENCH MOUNTED AT STANDARD ADA HEIGHT
21. ADA ACCESSIBLE SHOWER BENCH MOUNTED AT STANDARD ADA HEIGHT
22. HANDICAP ACCESSIBLE SHOWER WITH BUILT IN GRAB BARS AT STANDARD ADA HEIGHT.
23. SURFACE MOUNTED SOAP DISPENSER W/ POWDER COATED MATTE BLACK FINISH. BASIS OF DESIGN AMERICAN SPECIALTIES INC. SURFACE MOUNTED VERTICAL LIQUID SOAP DISPENSER. MODEL NO. 0347.
24. WALL MOUNTED UTILITY SHELF W/ MOP & BROOM HOLDERS AND RAG HOOKS.
25. FLOOR MOUNTED MOP SINK W/ SERVICE FAUCET.
26. 34" X 34" STAINLESS STEEL PLATE BACK SPLASH UNDER MOP HOOKS.
27. EPOXY WALL BASE. REFER TO FINISH SCHEDULE FOR DETAILS.
28. RECESSED HAND DRYER. BASIS OF DESIGN AMERICAN SPECIALTIES INC. TURBO-TUFF HIGH SPEED HAND DRYER. MODEL #9135.
29. RECESSED WALL HEATER. REFER TO MECHANICAL DWGS. FOR DETAILS.
30. FIRE EXTINGUISHER. REFER TO A005 FOR FIRE EXTINGUISHER LOCATIONS.
31. PNEUMATIC TANK. REFER TO MEP DWGS. FOR DETAILS.
32. WATER HEATER. REFER TO MEP DWGS. FOR DETAILS.
33. WATER SOFTENER TANK.
34. SALT BIN ASSOCIATED WITH WATER SOFTENER TANK.



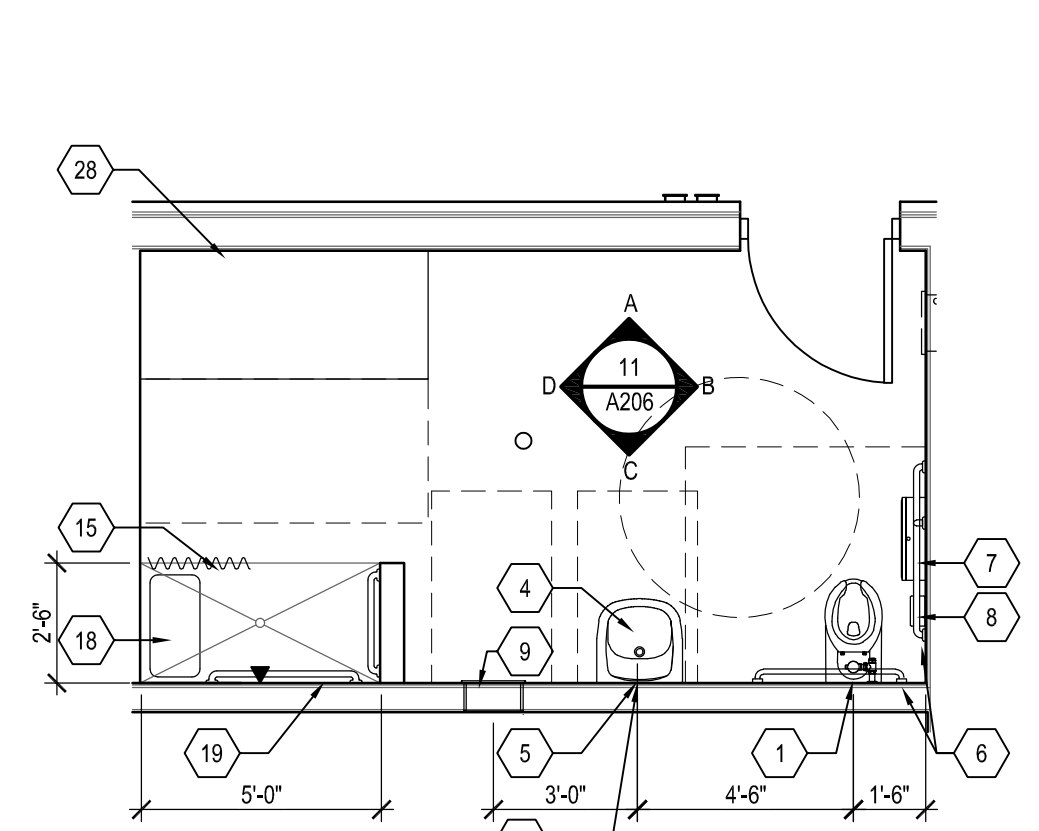
1 WOMENS GANG TOILET 101
SCALE: 1/4"=1'-0"



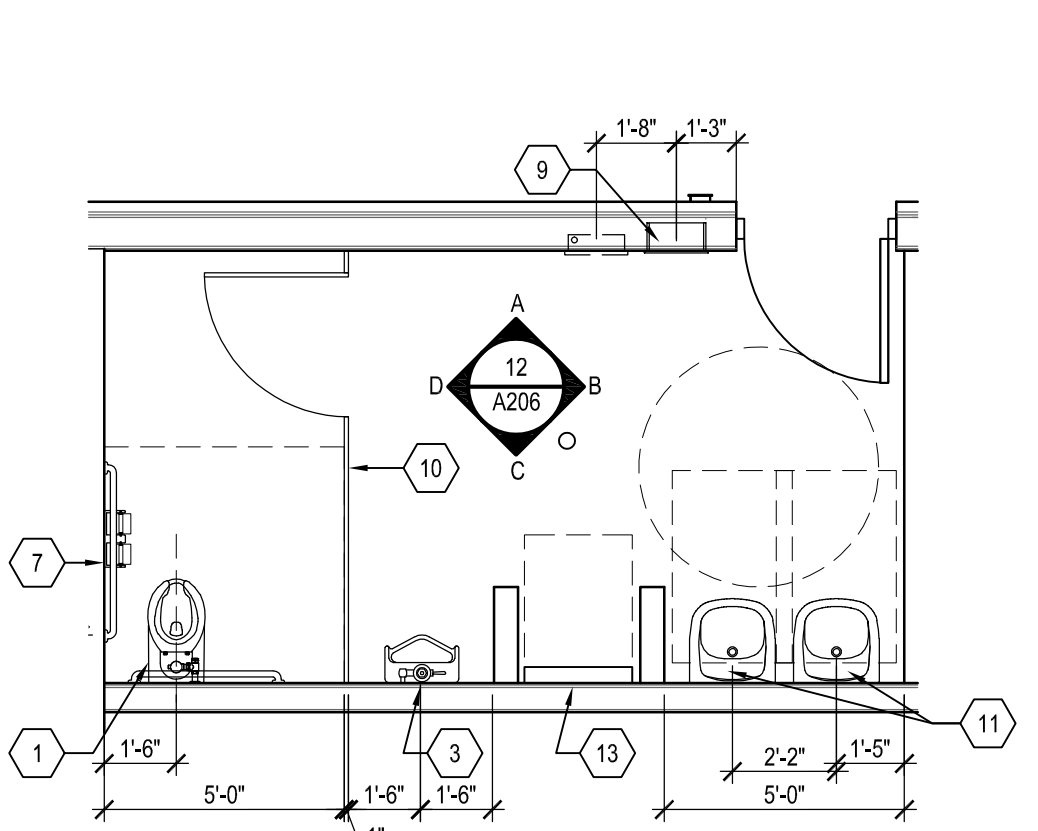
2 TOILET 102
SCALE: 1/4"=1'-0"



3 MECH ROOM 103
SCALE: 1/4"=1'-0"



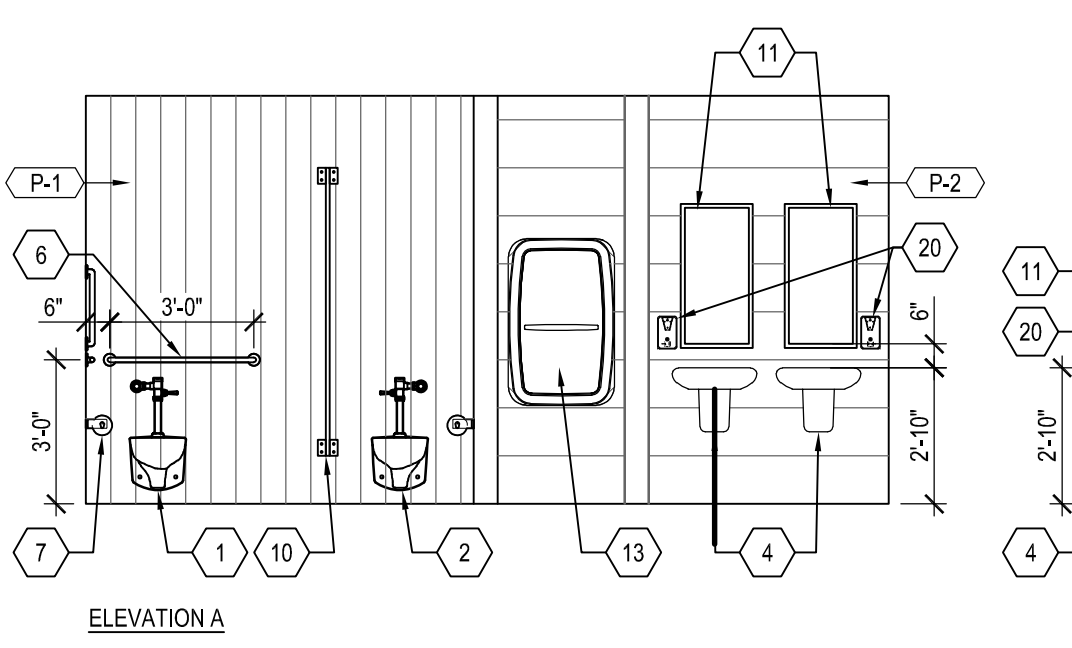
4 TYP. H.C. TOILET
SCALE: 1/4"=1'-0"



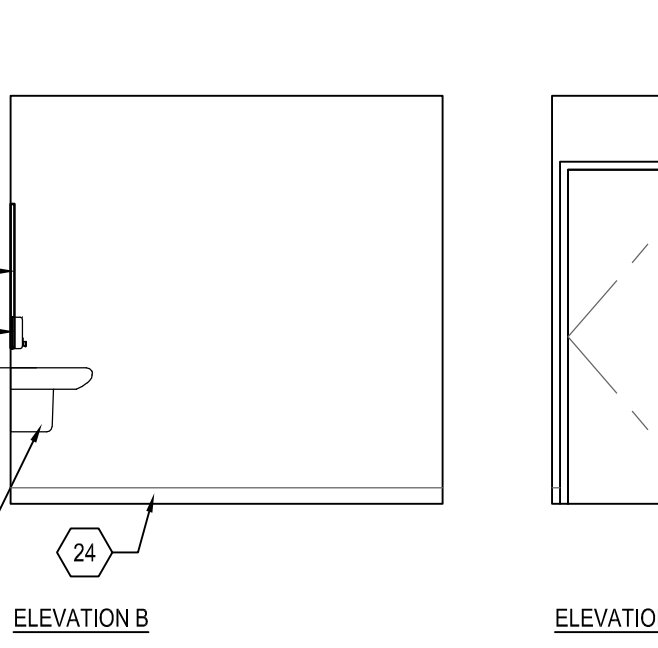
5 FAMILY TOILET 108
SCALE: 1/4"=1'-0"



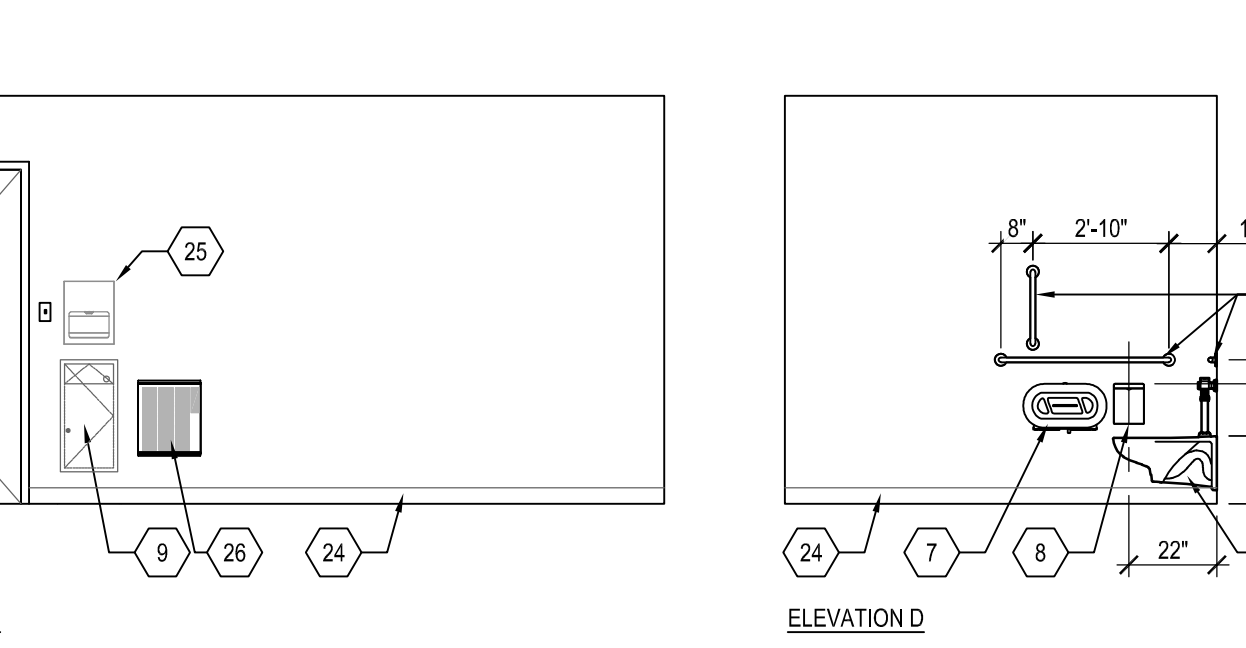
6 MENS GANG TOILET 111
SCALE: 1/4"=1'-0"



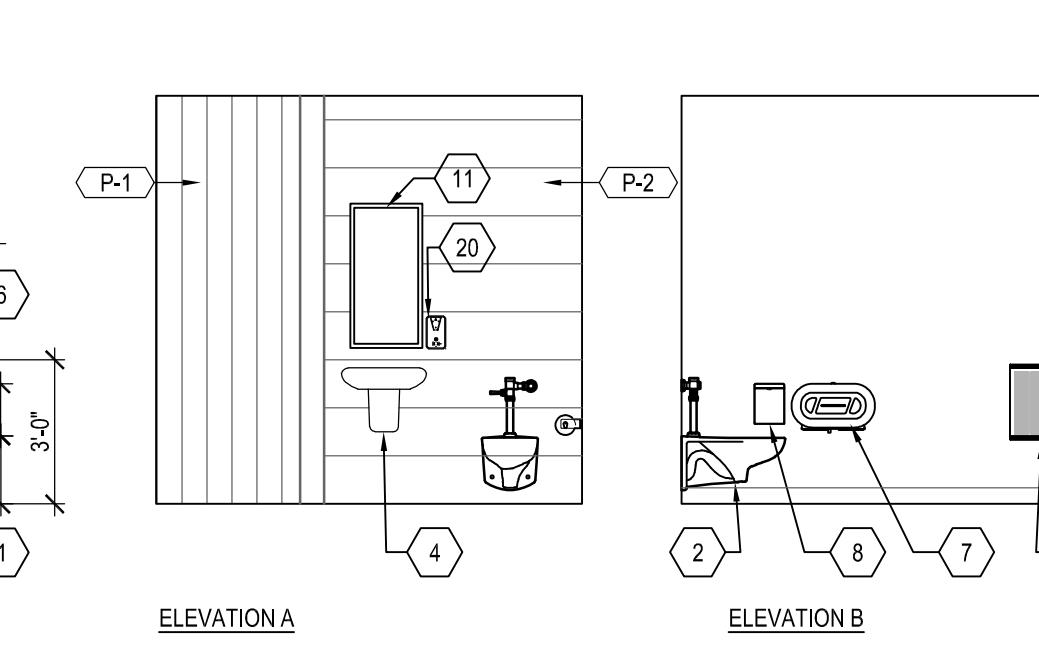
7 WOMENS GANG TOILET ELEVATIONS
SCALE: 1/4"=1'-0"



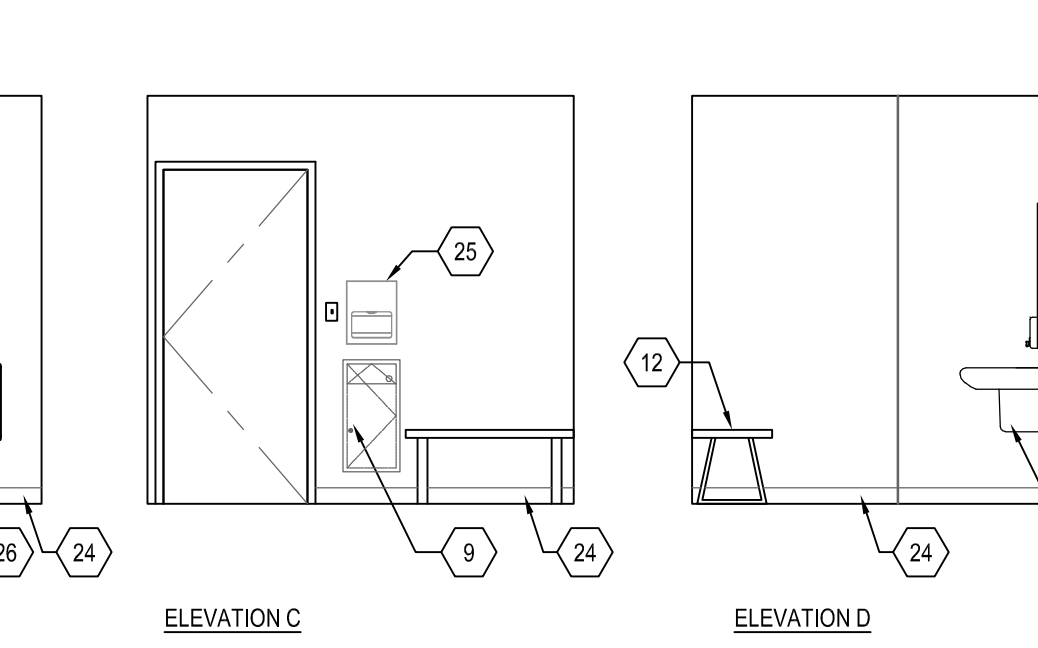
8 TOILET 102
SCALE: 1/4"=1'-0"



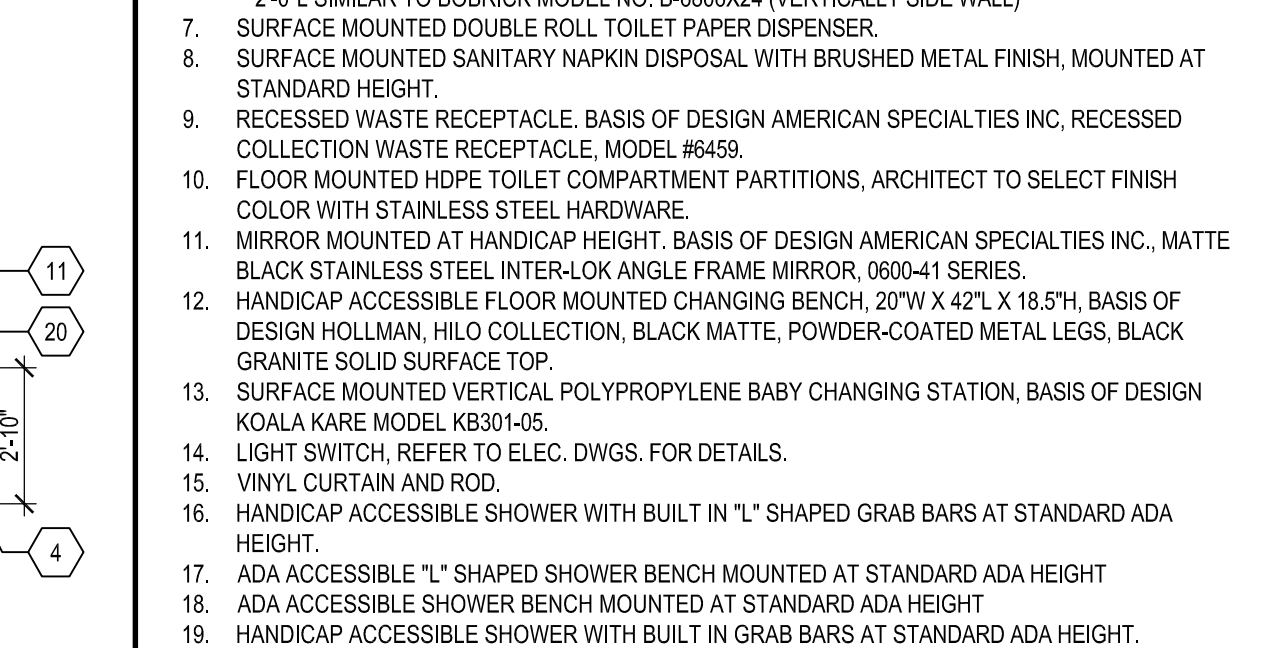
9 MECH ROOM ELEVATIONS
SCALE: 1/4"=1'-0"



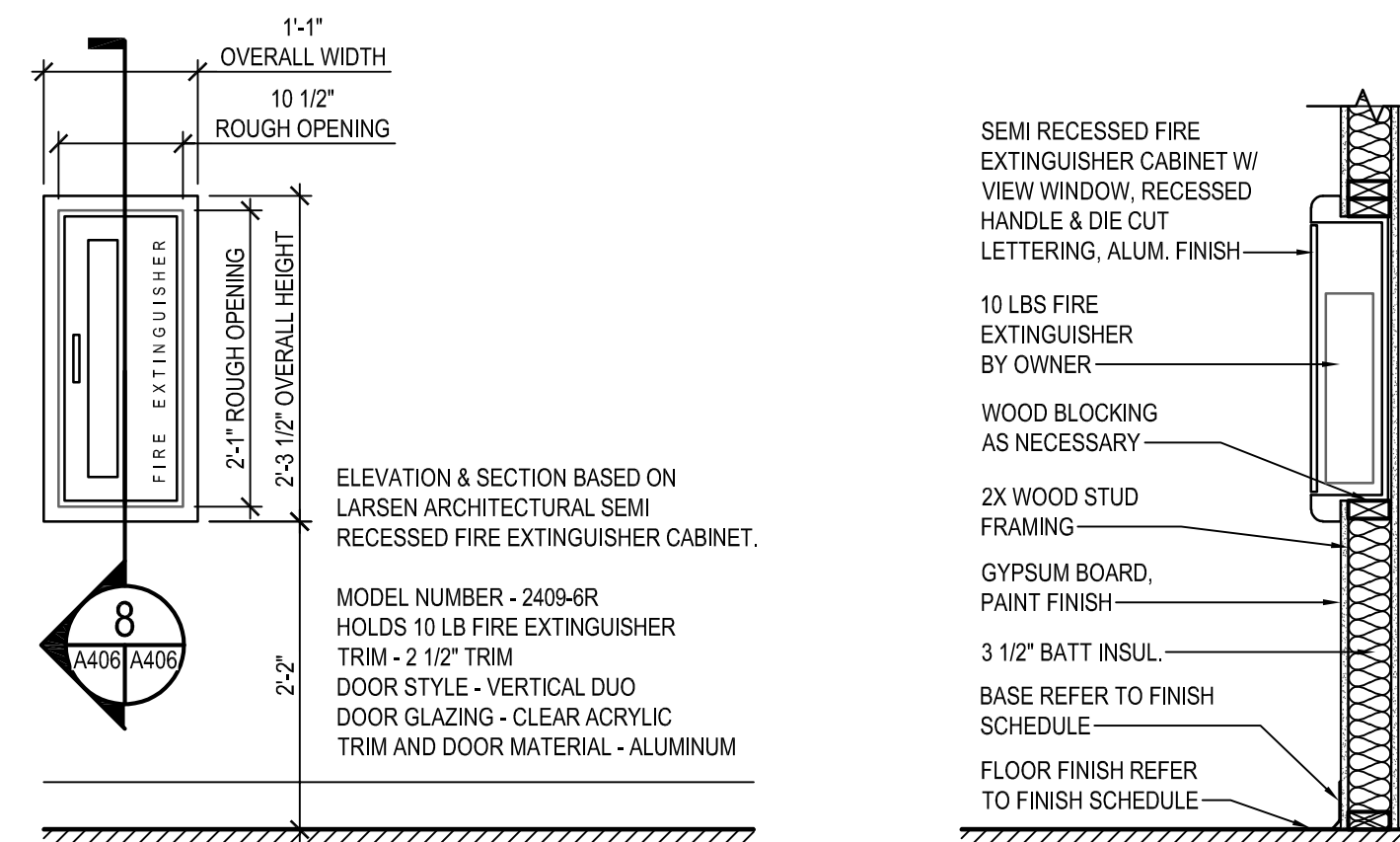
10 TYP. H.C. TOILET
SCALE: 1/4"=1'-0"



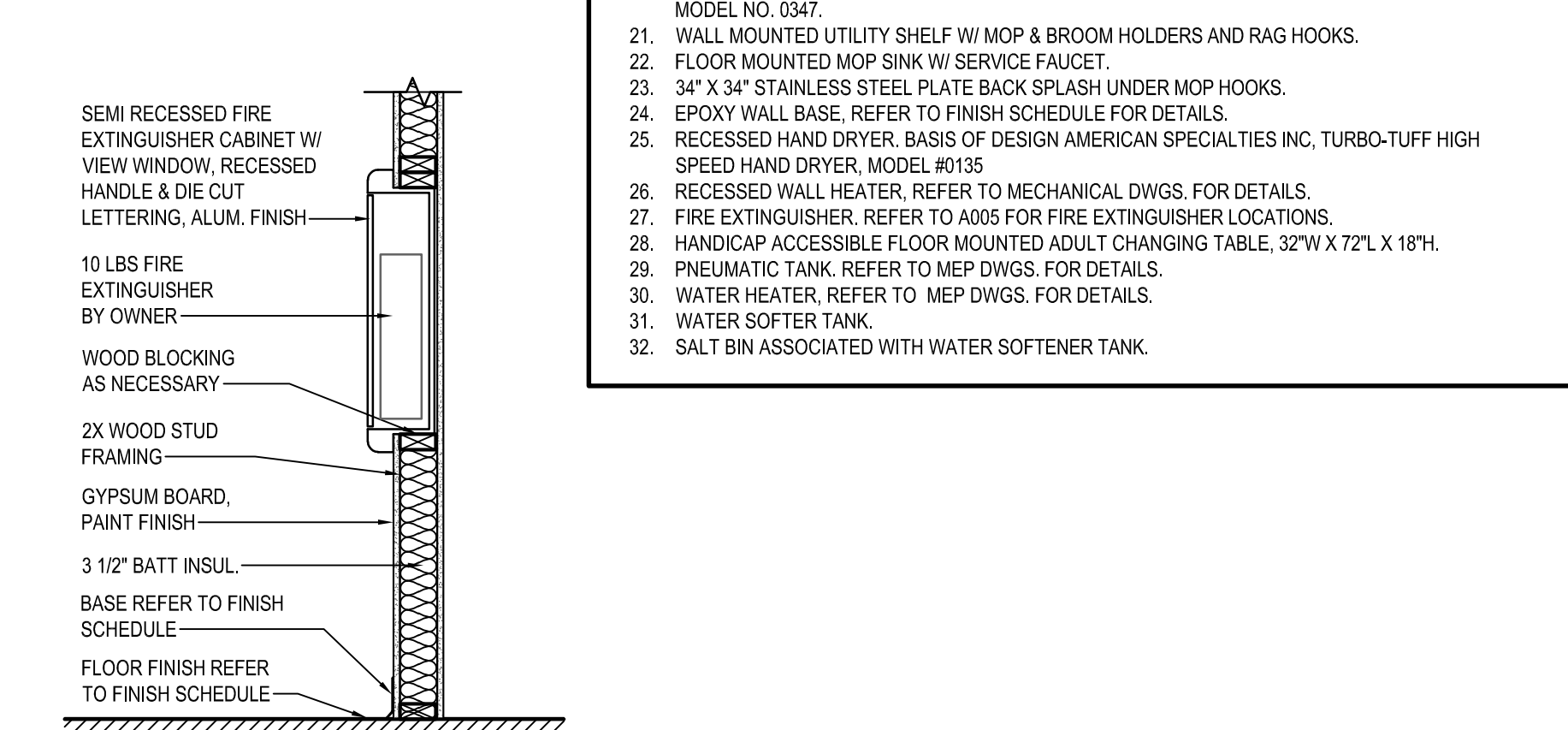
11 FAMILY TOILET 108
SCALE: 1/4"=1'-0"



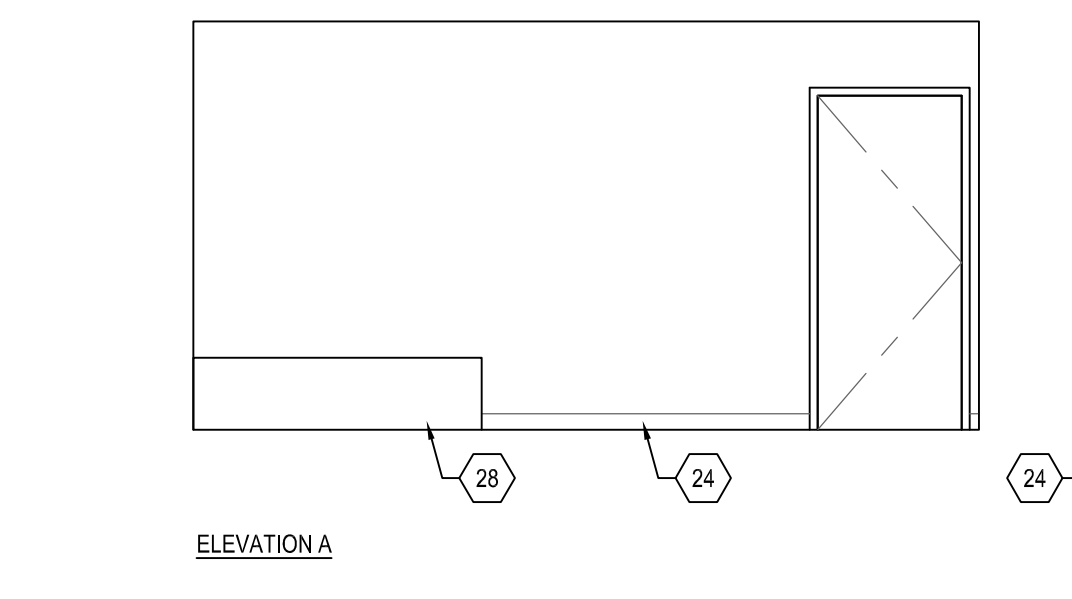
12 MENS GANG TOILET ELEVATIONS
SCALE: 1/4"=1'-0"



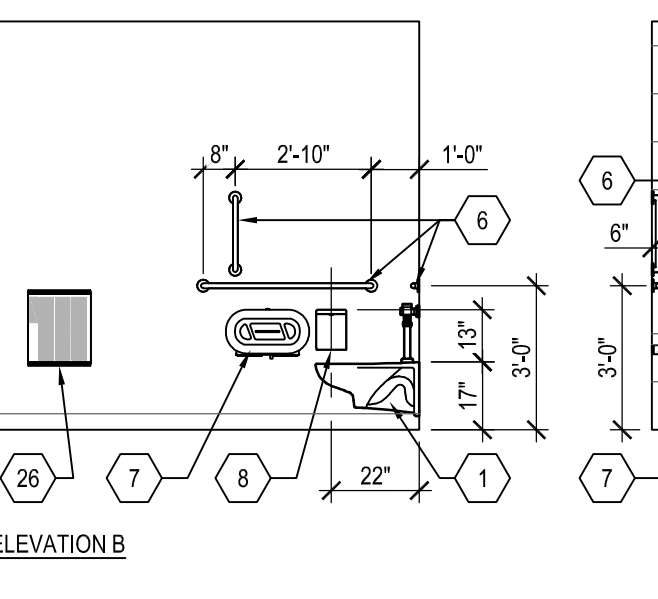
13 FIRE EXTINGUISHER ELEV.
SCALE: 3/4"=1'-0"



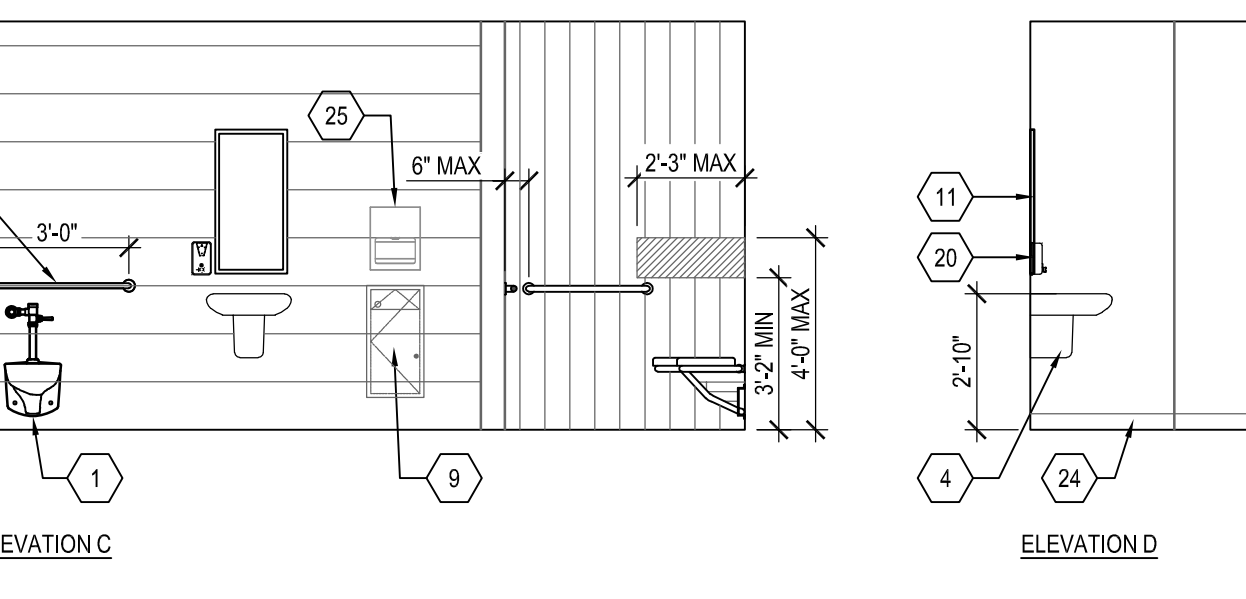
14 FIRE EXTINGUISHER SECTION
SCALE: 3/4"=1'-0"



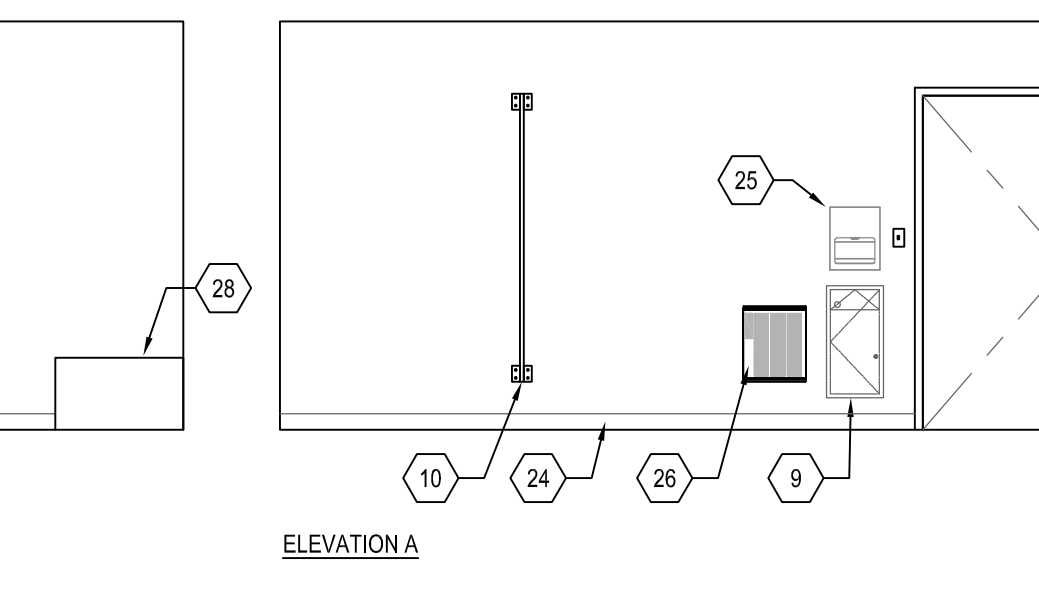
7 WOMENS GANG TOILET ELEVATIONS
SCALE: 1/4"=1'-0"



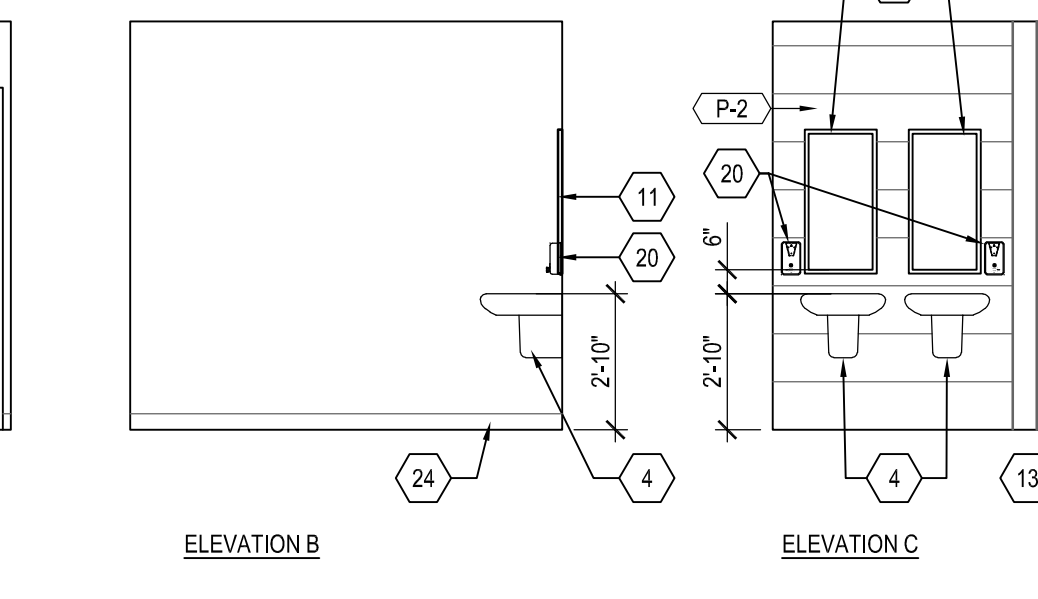
8 TOILET 102
SCALE: 1/4"=1'-0"



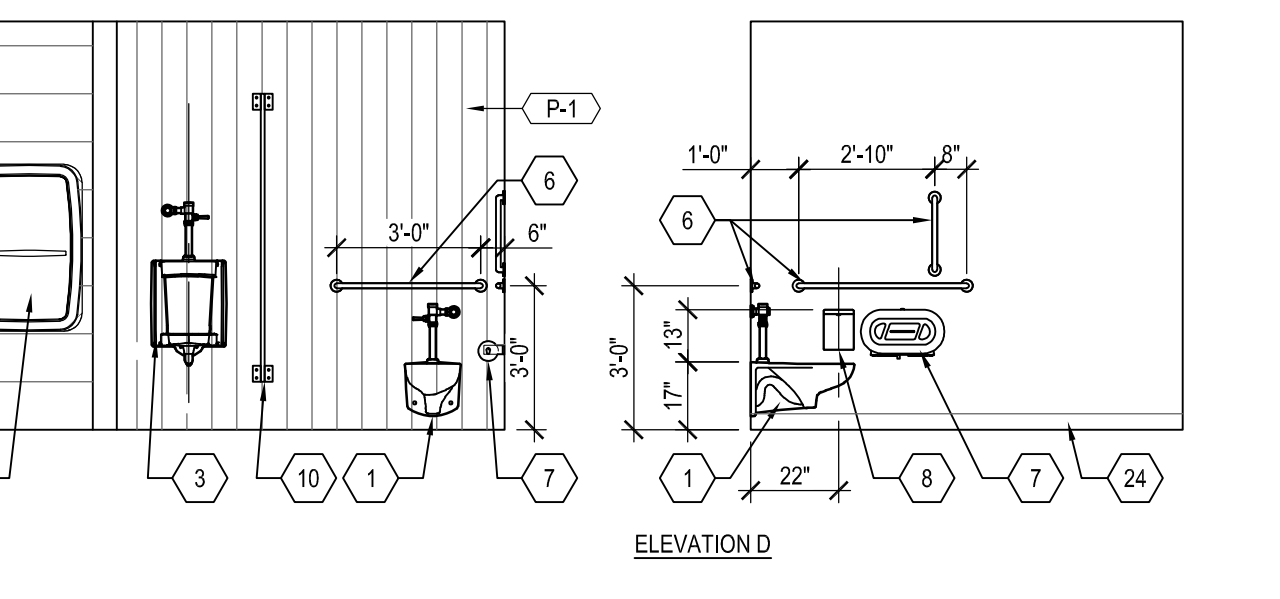
9 MECH ROOM ELEVATIONS
SCALE: 1/4"=1'-0"



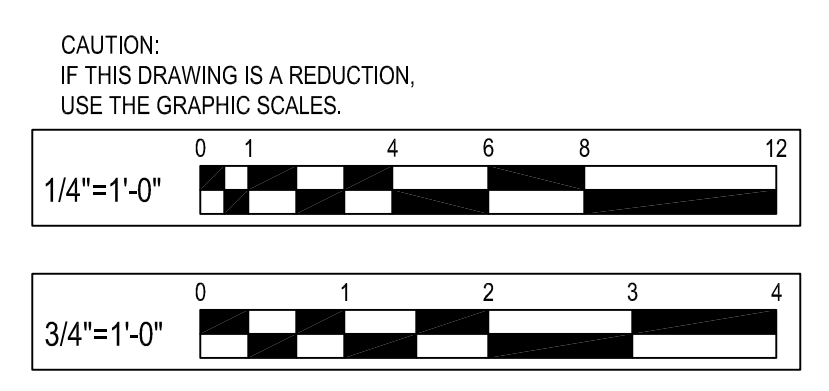
10 TYP. H.C. TOILET
SCALE: 1/4"=1'-0"



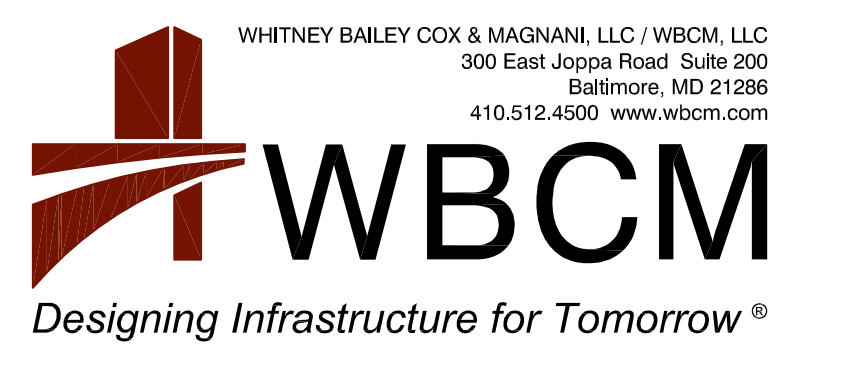
11 FAMILY TOILET 108
SCALE: 1/4"=1'-0"



12 MENS GANG TOILET ELEVATIONS
SCALE: 1/4"=1'-0"



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REVISIONS			
NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
BATHHOUSE INTERIOR ELEVATIONS
A205

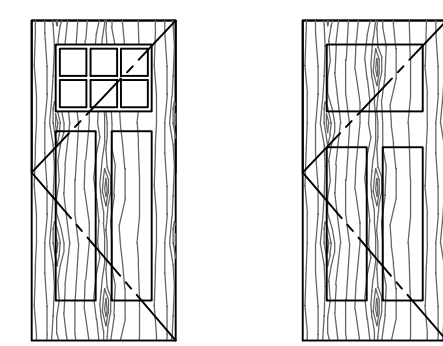
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FINISH SCHEDULE											
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		TRIM	REMARKS
				NORTH	SOUTH	EAST	WEST	MATL.	HT.		
101	WOMAN'S GANG TOILET	P-3	EWB-1	P-2	P-2	PT-1/PT-2	P-2	P-1	8'-6"	NA	
102	TOILET	P-3	EWB-1	P-2	P-2	PT-1/PT-2	P-2	P-1	8'-6"	NA	SHOWERS WALLS TO HAVE TILE FINISH
103	MECHANICAL/UTILITY ROOM	P-3	EWB-1	P-2	P-2	P-2	P-2	P-1	8'-6"	NA	
104	H.C. TOILET	P-3	EWB-1	P-2	P-2	PT-1/PT-2	P-2	P-1	8'-6"	NA	SHOWERS WALLS TO HAVE TILE FINISH
105	LAUNDRY	P-3	EWB-1	P-2	P-2	P-2	P-2	P-1	8'-6"	NA	
106	OUTDOOR SHOWER	S-1	-	-	-	-	-	-	-	-	
107	OUTDOOR SHOWER	S-1	-	-	-	-	-	-	-	-	
108	FAMILY TOILET	P-3	EWB-1	P-2	P-2	P-2	PT-1/PT-2	P-1	8'-6"	NA	SHOWERS WALLS TO HAVE TILE FINISH
109	H.C. TOILET	P-3	EWB-1	P-2	P-2	P-2	PT-1/PT-2	P-1	8'-6"	NA	SHOWERS WALLS TO HAVE TILE FINISH
110	H.C. TOILET	P-3	EWB-1	P-2	P-2	P-2	PT-1/PT-2	P-1	8'-6"	NA	SHOWERS WALLS TO HAVE TILE FINISH
111	MEN'S GANG TOILET	P-3	EWB-1	P-2	P-2	P-2	PT-1/PT-2	P-1	8'-6"	NA	
112	ELEC. ROOM	P-3	EWB-1	P-2	P-2	P-2	P-1	P-1	8'-6"	NA	

FINISH MATERIAL SCHEDULE										
FINISH NO.	FINISH LOCATION	FINISH NAME	MATERIAL						REMARKS	
			MANUF.	STYLE	COLOR	FINISH	CONTENT	SIZE		
S-1	FLOOR	SEALED CONCRETE	-	-	-	-	-	-	-	BROOMED FINISH ON EXTERIOR
PT-1	WALL	PORCELAIN TILE	DALTILE	EMERSON	HICKORY PECAN EP05	-	-	-	6X48	PROVIDE MATCHING JOLLYS/TILE ACCESSORIES WHEN TILE ENDS AT WALL CORNERS OR IN MIDDLE OF WALL. VERTICAL BRICK ASHLAR PATTERN
PT-2	WALL	PORCELAIN TILE	DALTILE	BRYNE	MIST BR31	-	-	-	12X24	PROVIDE MATCHING JOLLYS/TILE ACCESSORIES WHEN TILE ENDS AT WALL CORNERS OR IN MIDDLE OF WALL. HORIZONTAL STACKED BOND PATTERN.
P-1	CEILING	PAINT, STANDARD WALL PAINT	SHERWIN WILLIAMS	-	MARSHMALLOW SW7002	MATTE	-	-	-	FLAT FINISH FOR CEILING PAINT
P-2	WALL	EPOXY PAINT COATING	SHERWIN WILLIAMS	-	-	-	-	-	-	ARCHITECT TO SELECT FROM FULL RANGE OF COLORS
P-3	FLOOR	EPOXY FLOOR	SHERWIN WILLIAMS	FASTOP DECO QUARTZ SL45	-	-	-	-	-	ARCHITECT TO SELECT FROM FULL RANGE OF COLORS
EWB-1	BASE	EPOXY WALL BASE	SHERWIN WILLIAMS	FASTOP DECO QUARTZ SL45	-	-	-	-	4"	REFER TO DETAIL 3/A206
SS-1	CASEWORK	SOLID SURFACE	DEKTON	-	-	-	-	-	-	PROVIDE ON OUTDOOR SINK. ARCHITECT TO SELECT FROM FULL RANGE OF DEKTON ENGINEERED STONECOLORS/FINISHES
SS-2	CASEWORK	SOLID SURFACE	CORIAN	-	-	-	-	-	-	PROVIDE ON ADULT CHANGING TABLE. ARCHITECT TO SELECT FROM FULL RANGE OF COLORS/FINISHES

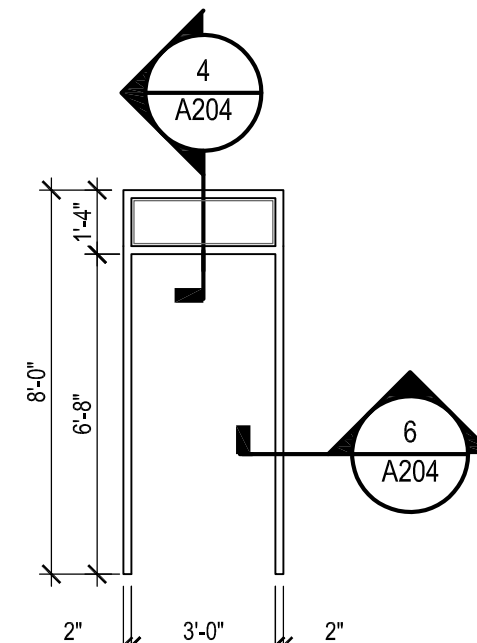
DOOR SCHEDULE															
ROOM NAME	DOOR NO.	DOOR						FRAME			FIRE RATING LABEL	HARDWARE		REMARKS	
		DOOR SIZE			MATL.	ELEV.	GLAZ.	MATL.	ELEV.	GLAZ.		FRAME DETAIL			
		W.	H.	THK.								HEAD	JAMB		SILL
WOMEN'S GANG TOILET	101-1	3'-0"	6'-8"	-	FG	A	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER ABOVE DOOR
TOILET 102	102-1	3'-0"	6'-8"	-	FG	A	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER ABOVE DOOR
MECH/UTILITY ROOM	103-1	3'-0"	6'-8"	-	FG	B	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER AND INSUL. BLANK OFF PANEL ABOVE DOOR
H.C. TOILET	104-1	3'-0"	6'-8"	-	FG	A	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER ABOVE DOOR
LAUNDRY	105-1	3'-0"	6'-8"	-	FG	A	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER ABOVE DOOR
FAMILY TOILET	108-1	3'-0"	6'-8"	-	FG	A	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER ABOVE DOOR
H.C. TOILET	109-1	3'-0"	6'-8"	-	FG	A	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER ABOVE DOOR
H.C. TOILET	110-1	3'-0"	6'-8"	-	FG	A	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER ABOVE DOOR
MEN'S GANG TOILET	111-1	3'-0"	6'-8"	-	FG	A	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER ABOVE DOOR
ELEC. ROOM	112-1	3'-0"	6'-8"	-	FG	B	-	H.M.	1	-	-	-	-	-	PROVIDE LOUVER AND INSUL. BLANK OFF PANEL ABOVE DOOR

DOOR NOTES	
GENERAL DOOR NOTES:	
1.	ALL DOORS TO HAVE LEVER TYPE DOOR HANDLES UNO IN DRAWINGS OR SPECS.
2.	ALL DOORS WHERE OPEN PARALLEL TO WALL TO HAVE WALL MOUNTED DOOR STOPS.
3.	REFER TO SPECIFICATIONS FOR HARDWARE SET INFORMATION.
4.	ALL DOORS TO HAVE MATTE BLACK HARDWARE, UNO.
5.	ALL EXTERIOR FG DOORS TO HAVE MANUFACTURER PREFINISHED PAINT OR STAIN. ARCHITECT TO SELECT FROM ALL MANUF. FINISHES.
6.	FG = FIBERGLASS
7.	CM = COMPOSITE MATERIAL
8.	ALL DOORS TO HAVE LOW PROFILE ADA ACCESSIBLE SILLS
9.	HM = HOLLOW METAL
10.	REFER TO SPECIFICATIONS FOR ALL HARDWARE



A WOOD LOOK FIBERGLASS DOOR BASIS OF DESIGN: PELLA Craftsman Fiberglass Entry Door w/ view lite, simulated divided lite and spacers and low-profile glass. See specifications for additional info.

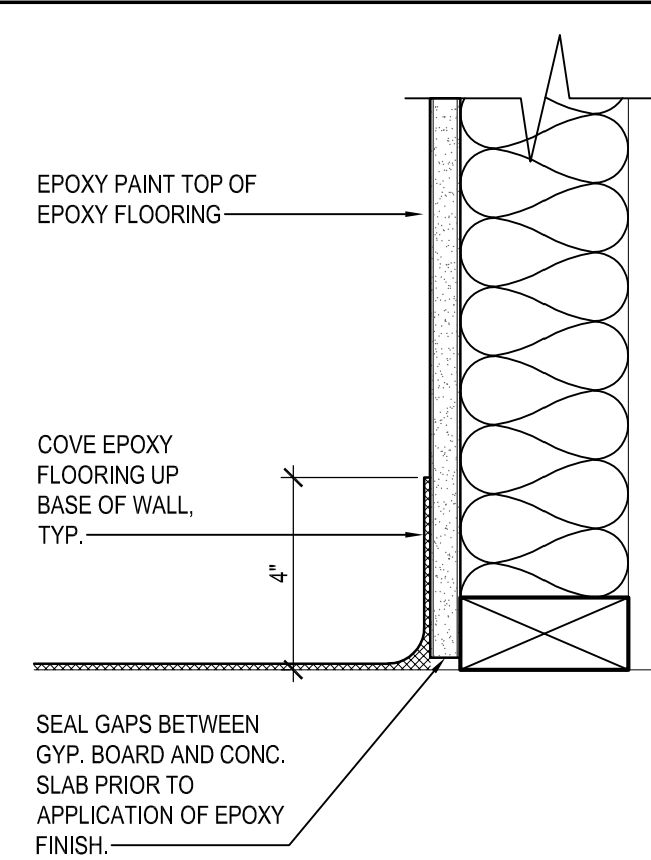
B WOOD LOOK FIBERGLASS DOOR BASIS OF DESIGN: PELLA Craftsman Fiberglass Entry Door



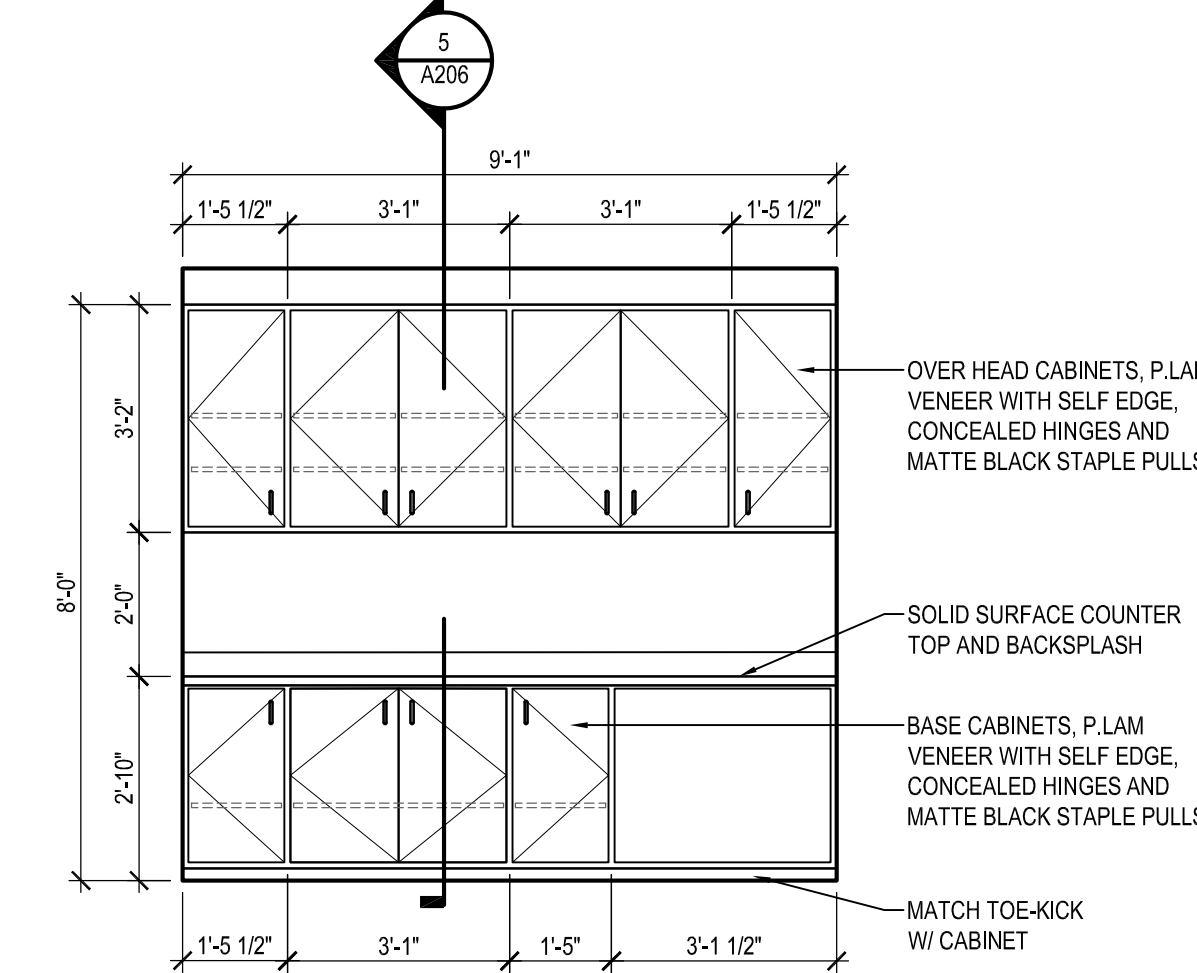
1 H.M. FRAME FOR FIBERGLASS DOOR

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

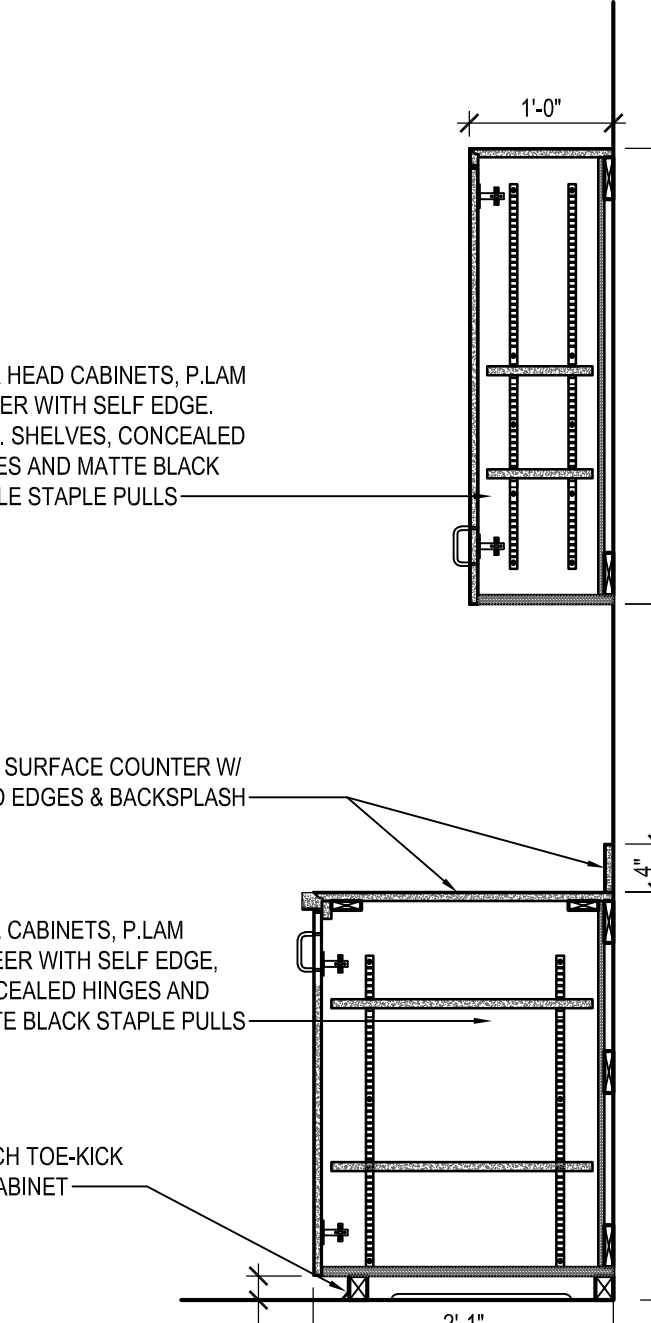
2 DOOR FRAME ELEVATIONS SCALE: 1/4"=1'-0"



3 EPOXY WALL BASE (EWB-1) SCALE: 3/8"=1'-0"



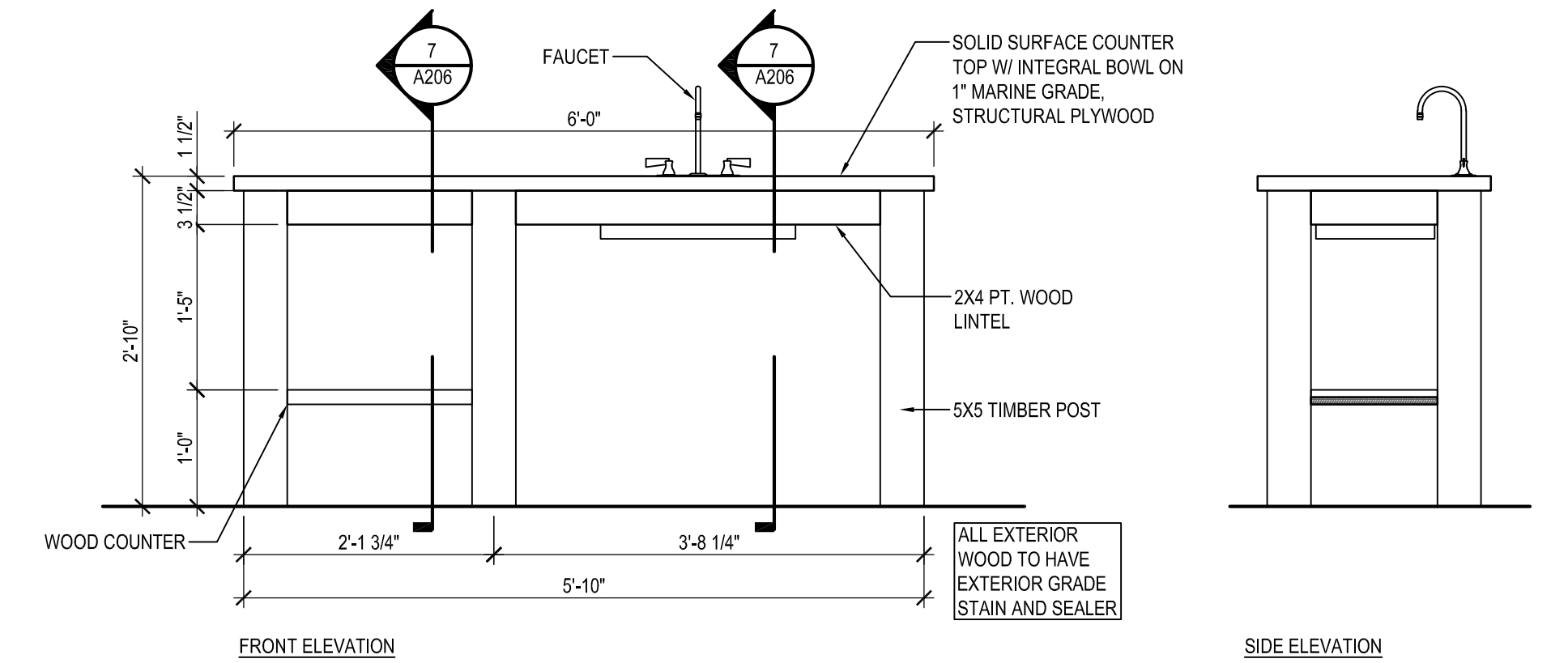
4 LAUNDRY CASEWORK ELEVATION SCALE: 3/8"=1'-0"



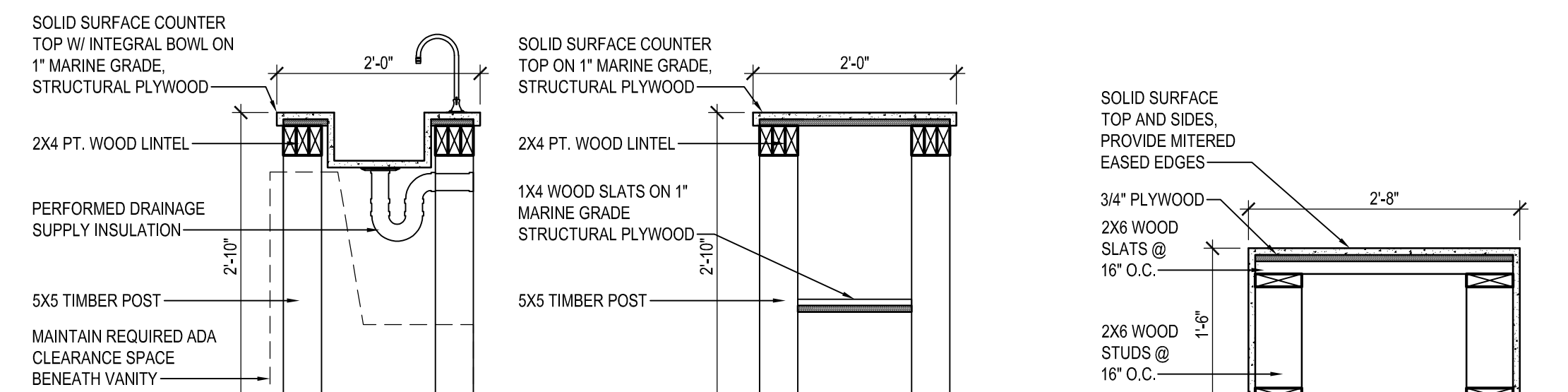
5 CASEWORK SECTION SCALE: 3/4"=1'-0"

FINISH NOTES

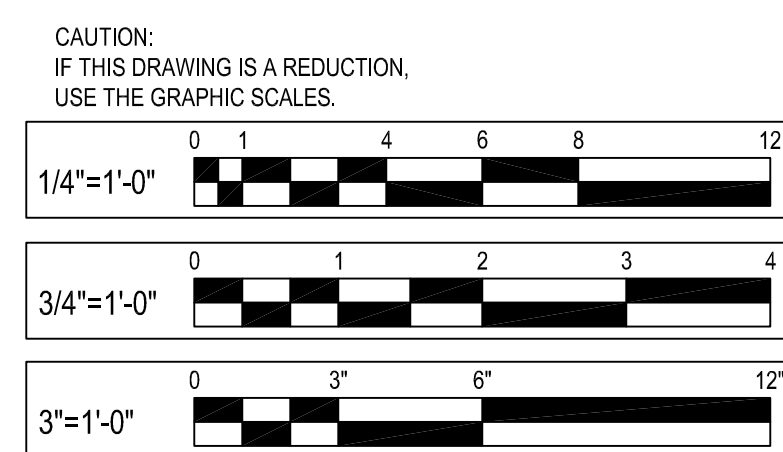
- CONTRACTOR SHALL PROPERLY PREPARE SURFACES FOR FINISH MANUFACTURER'S SPECIFICATIONS PRIOR TO APPLICATION OF FINISH. ALL FINISHES AND ADJOINING SURFACES SHALL REMAIN FREE OF GLUE, PLASTER AND PAINT EXCESS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION BETWEEN TRADES TO INSURE PROPER INSTALLATION OF FLOOR FINISH FOR COLORS AND FINISH QUALITIES.
- PAINTER SHALL USE PRIMER COMPATIBLE WITH SUBSTRATE TO BE PAINTED AND WILL PROVIDE FINAL FINISH COAT AS RECOMMENDED BY MANUFACTURER. TINT PRIME COAT TOWARD FINAL COLOR. SEALER/PRIMER SHALL BE ROLLER APPLIED TO GYPSUM BOARD. SPRAY APPLICATION IS NOT ACCEPTABLE.
- EXPOSED CONCRETE PATIO FLOOR TO BE THOROUGHLY CLEANED, REMOVE ALL STAINS, GRIND PATCHES SMOOTH & BLEND TO CONCRETE TO GREATEST DEGREE POSSIBLE. PRIME WITH CURING COMPOUND & SEAL WITH COMPATIBLE SEALER.
- ALL EXPOSED CONDUIT, PIPING, POWER, UTILITY TO RECEIVE PAINT FINISH TO MATCH ADJACENT SURFACE FINISH.
- ALL EXPOSED CONDUIT, PIPE, WIRING & HVAC EQUIPMENT SHALL BE LOCATED TO MINIMIZE ITS VISIBILITY. RUN CONDUIT, PIPE & WIRING ADJACENT TO COLUMNS VERTICALLY & ROOF BEAMS HORIZONTALLY. MINIMIZE EXPOSURE. PLACE ABOVE CEILING TO THE GREATEST EXTENT POSSIBLE. PAINT ALL EXPOSED MATERIALS TO MATCH SUBSTRATE FOR ALL EXPOSED CONDUIT ALONG WALLS RUN IN DIRECTION TO MINIMIZE EXPOSURE.
- PAINT SHEEN SHALL BE AS FOLLOWS:
 - SHEEN AT PAINTED GYPSUM BOARD WALL TO BE PAINTED EGGSHELL, U.N.O.
 - SEMI GLOSS FINISH - WINDOW FRAMES, WINDOW TRIM, DOOR TRIM.



6 OUTDOOR SINK ELEVATION SCALE: 3/4"=1'-0"



8 ADULT CHANGING TABLE SECTION SCALE: 3/4"=1'-0"



CAUTION: IF THIS DRAWING IS A REDUCTION, USE THE GRAPHIC SCALES.



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REVISIONS			
NO.	DESCRIPTION	BY	DATE

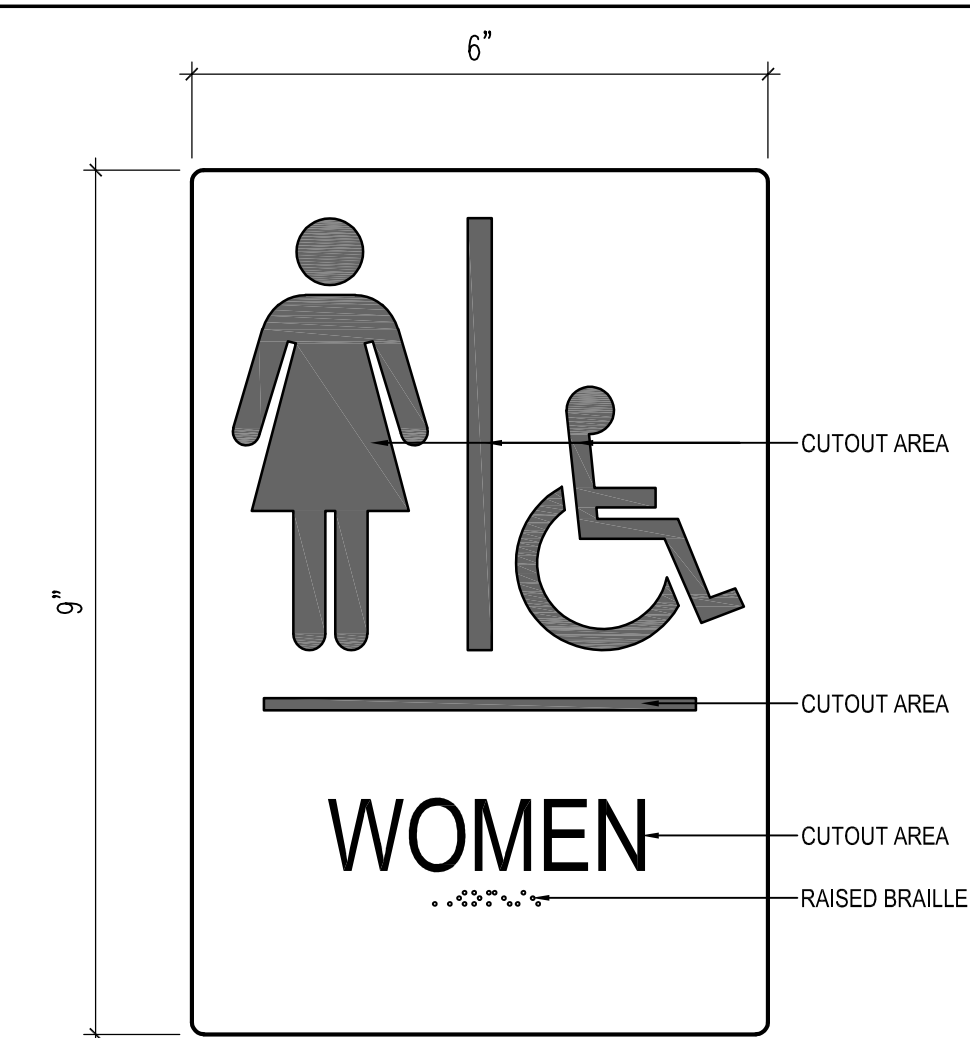
ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE:		DRAWN BY:	A.D.M.
CHECKED BY:	B.F.	SHEET NO.:	44 OF 63
PROJECT NO.:	P584501	CONTRACT NO.:	P584500
JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION BATHHOUSE SCHEDULES AND DETAILS A206			

BID SET

- ### GENERAL SHEET NOTES
- ALL WORK TO COMPLY WITH IBC 2018 REQUIREMENTS.
 - GENERAL CONTRACTOR TO COORDINATE ALL TRADES.
 - REFER TO A001 FOR ALL APPLICABLE GENERAL NOTES.
 - ALL ROOM SIGNAGE TO BE PRE-FINISHED MATTE BLACK METAL W/ WOOD LOOK BACKGROUND. SIGNS TO BE STUD MOUNTED W/ PRE-FINISHED BLACK PROJECTED SPACER AND JAMB NUT.
 - TYPE FACE TO BE ARIAL NARROW, TYP.

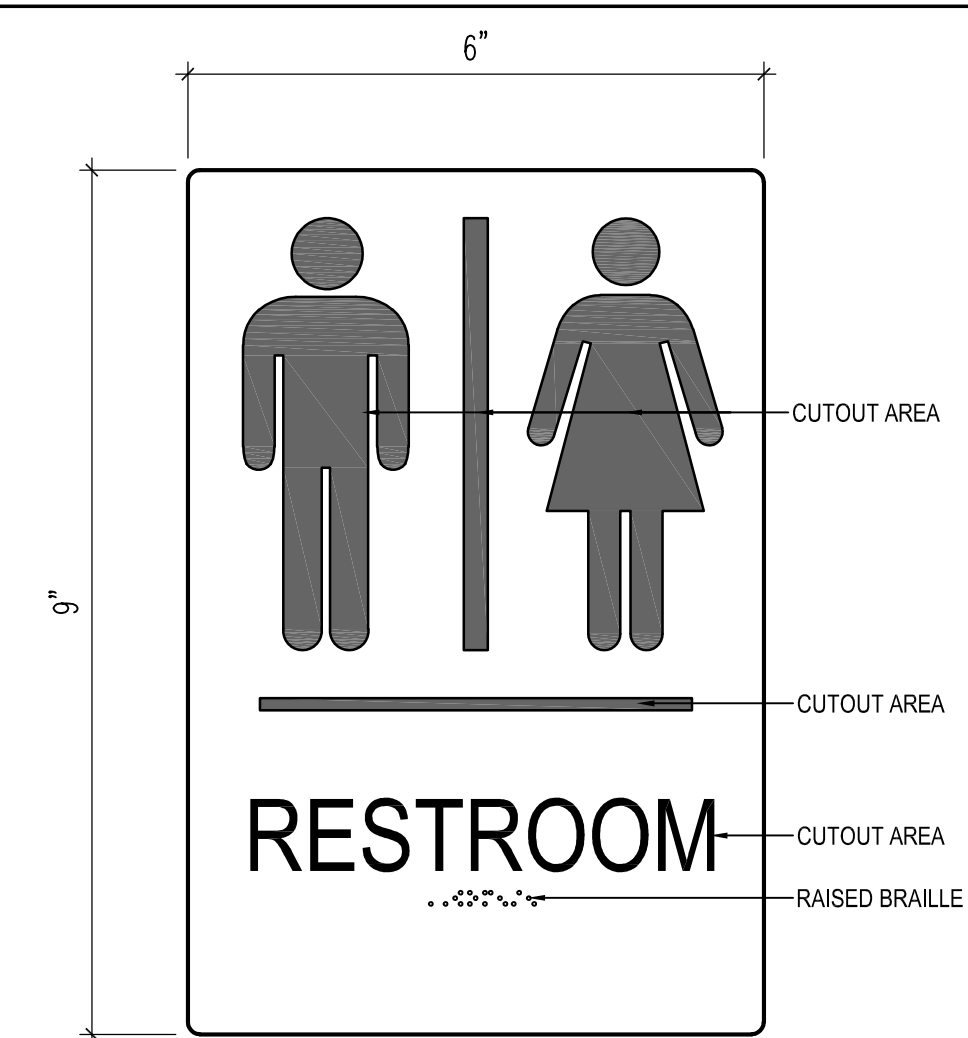
EXTERIOR SIGNAGE SCHEDULE

ROOM NO.	TEXT	SIGN TYPE
101	WOMEN BRAILLE	A/A207
102	RESTROOM BRAILLE	B/A207
103	UTILITY ROOM BRAILLE	C/A207
104	RESTROOM BRAILLE	D/A207
105	LAUNDRY ROOM BRAILLE	E/A207
108	FAMILY RESTROOM BRAILLE	F/A207 J/A207
109	RESTROOM BRAILLE	D/A207
110	RESTROOM BRAILLE	D/A207
111	MEN BRAILLE	G/A207
112	ELECTREICAL ROOM BRAILLE	H/A207



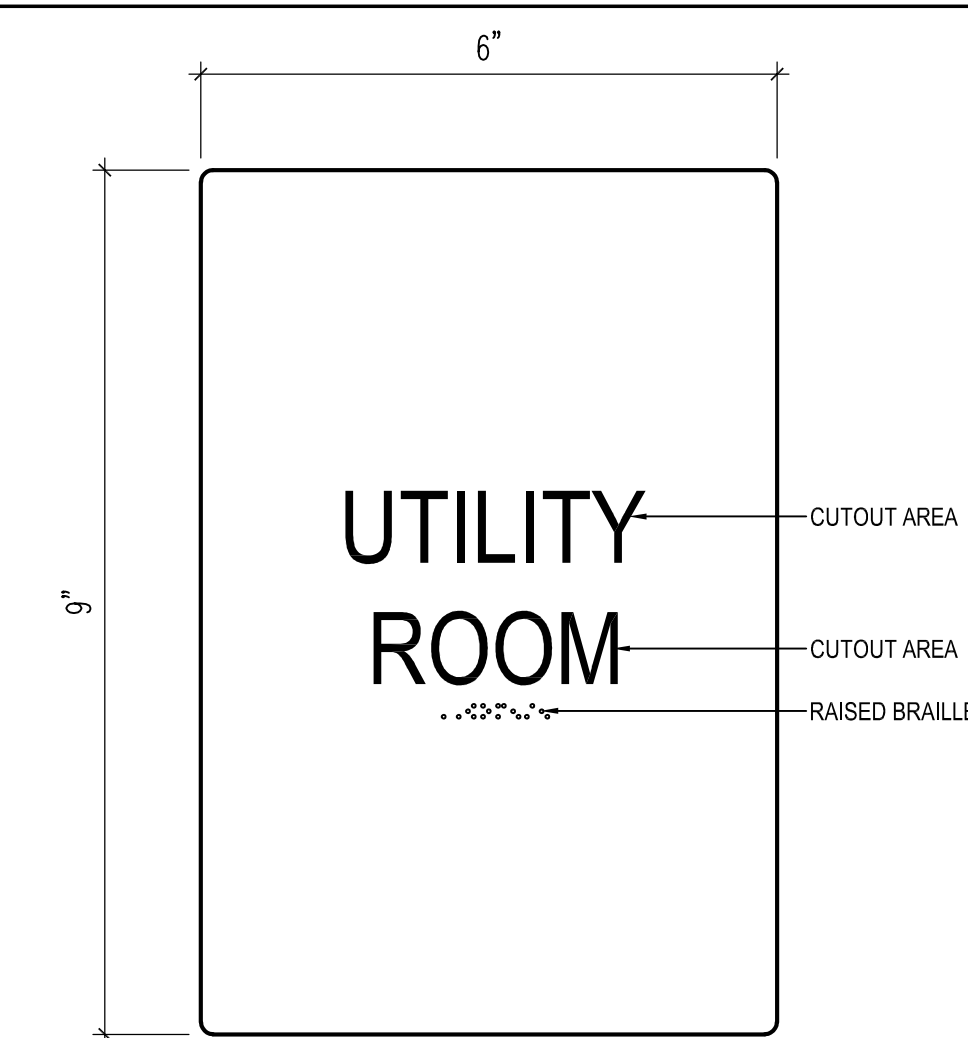
SIZE: 6" W x 9" H
 FONT SIZE: 1" HIGH
 FONT STYLE: STANDARD BOLD
 FONT COLOR: BY ARCHITECT
 BACKGROUND: BY ARCHITECT
 RAISED GRADE 2 BRAILLE
 MATERIAL: PRE-FINISHED METAL
 NOTE: FACE OF SIGN TO BE PRE-FINISHED BLACK

A WOMAN'S ROOM SIGN
 SCALE: N.T.S.



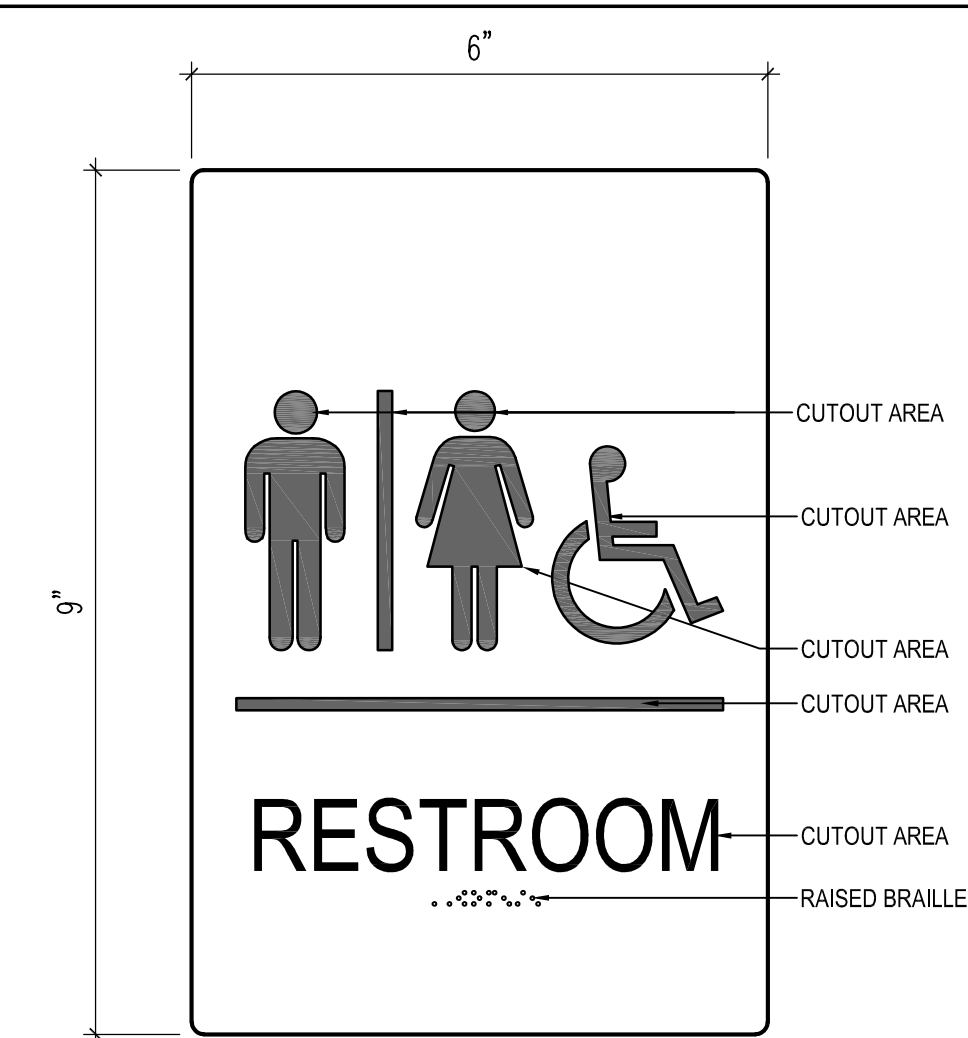
SIZE: 6" W x 9" H
 FONT SIZE: 1" HIGH
 FONT STYLE: STANDARD BOLD
 FONT COLOR: BY ARCHITECT
 BACKGROUND: BY ARCHITECT
 RAISED GRADE 2 BRAILLE
 MATERIAL: PRE-FINISHED METAL
 NOTE: FACE OF SIGN TO BE PRE-FINISHED BLACK

B TOILET ROOM SIGN
 SCALE: N.T.S.



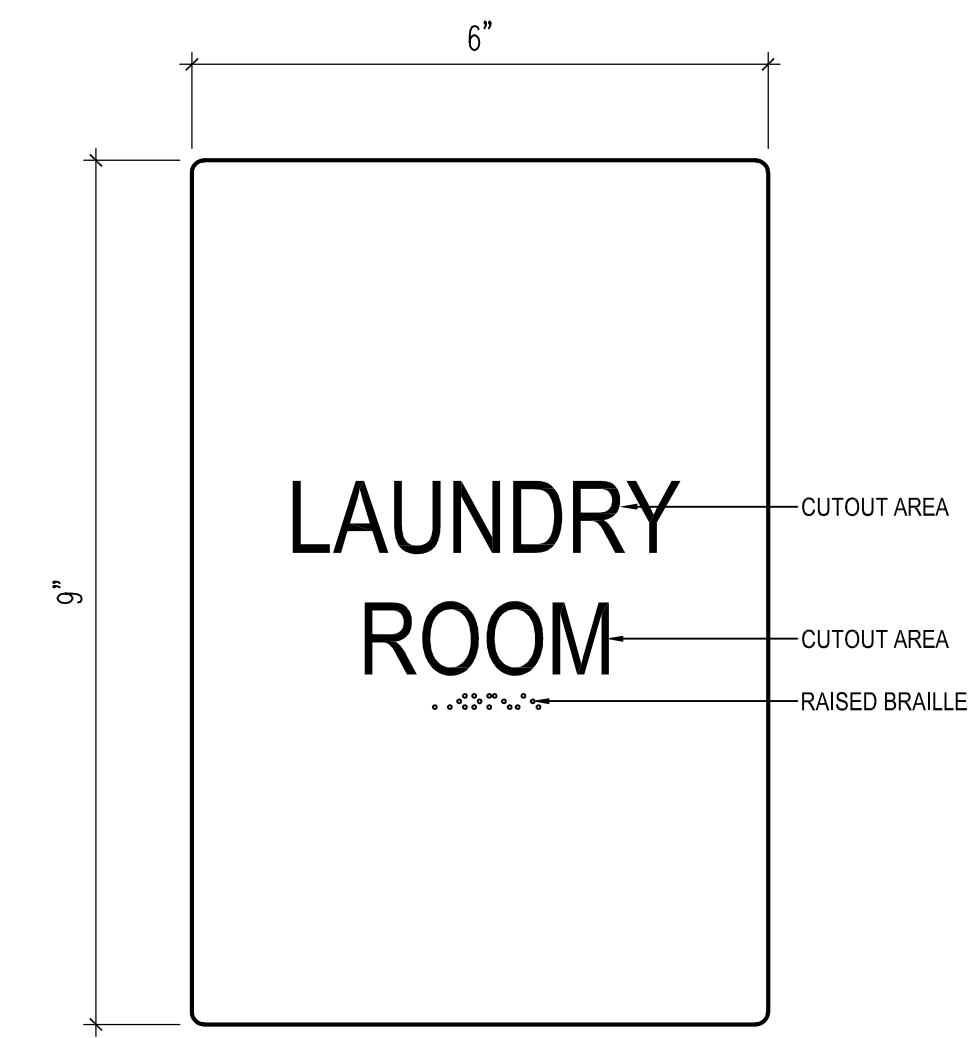
SIZE: 6" W x 9" H
 FONT SIZE: 1" HIGH
 FONT STYLE: STANDARD BOLD
 FONT COLOR: BY ARCHITECT
 BACKGROUND: BY ARCHITECT
 RAISED GRADE 2 BRAILLE
 MATERIAL: PRE-FINISHED METAL
 NOTE: FACE OF SIGN TO BE PRE-FINISHED BLACK

C UTILITY ROOM SIGN
 SCALE: N.T.S.



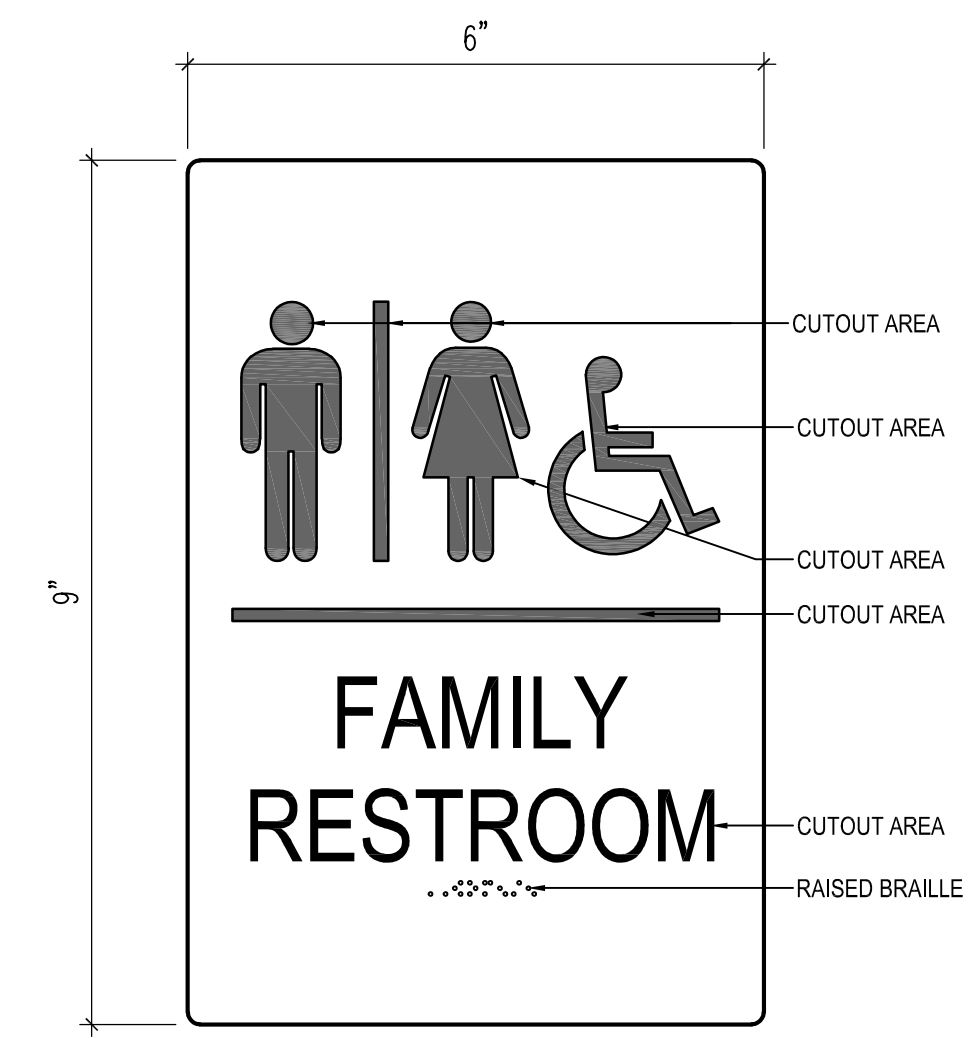
SIZE: 6" W x 9" H
 FONT SIZE: 1" HIGH
 FONT STYLE: STANDARD BOLD
 FONT COLOR: BY ARCHITECT
 BACKGROUND: BY ARCHITECT
 RAISED GRADE 2 BRAILLE
 MATERIAL: PRE-FINISHED METAL
 NOTE: FACE OF SIGN TO BE PRE-FINISHED BLACK MTL.

D H.C. TOILET ROOM SIGN
 SCALE: N.T.S.



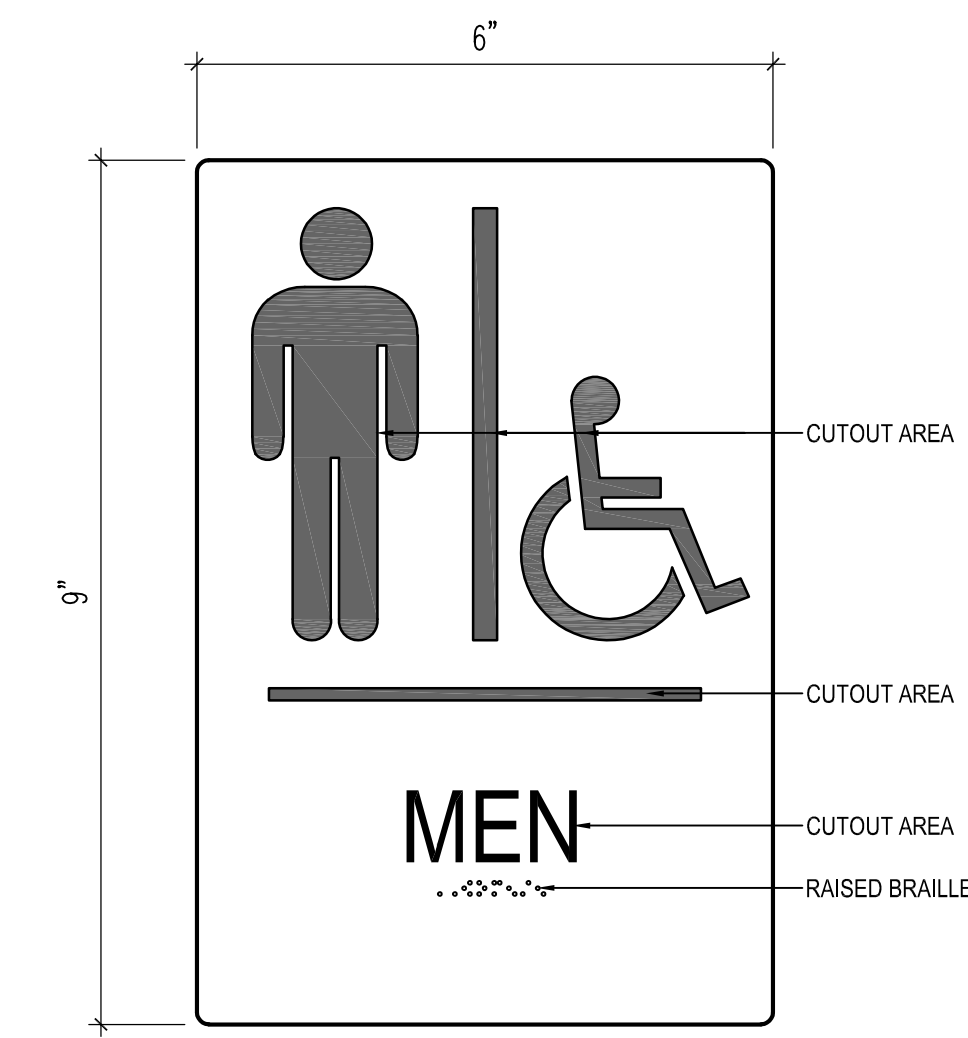
SIZE: 6" W x 9" H
 FONT SIZE: 1" HIGH
 FONT STYLE: STANDARD BOLD
 FONT COLOR: BY ARCHITECT
 BACKGROUND: BY ARCHITECT
 RAISED GRADE 2 BRAILLE
 MATERIAL: PRE-FINISHED METAL
 NOTE: FACE OF SIGN TO BE PRE-FINISHED BLACK

E LAUNDRY ROOM SIGN
 SCALE: N.T.S.



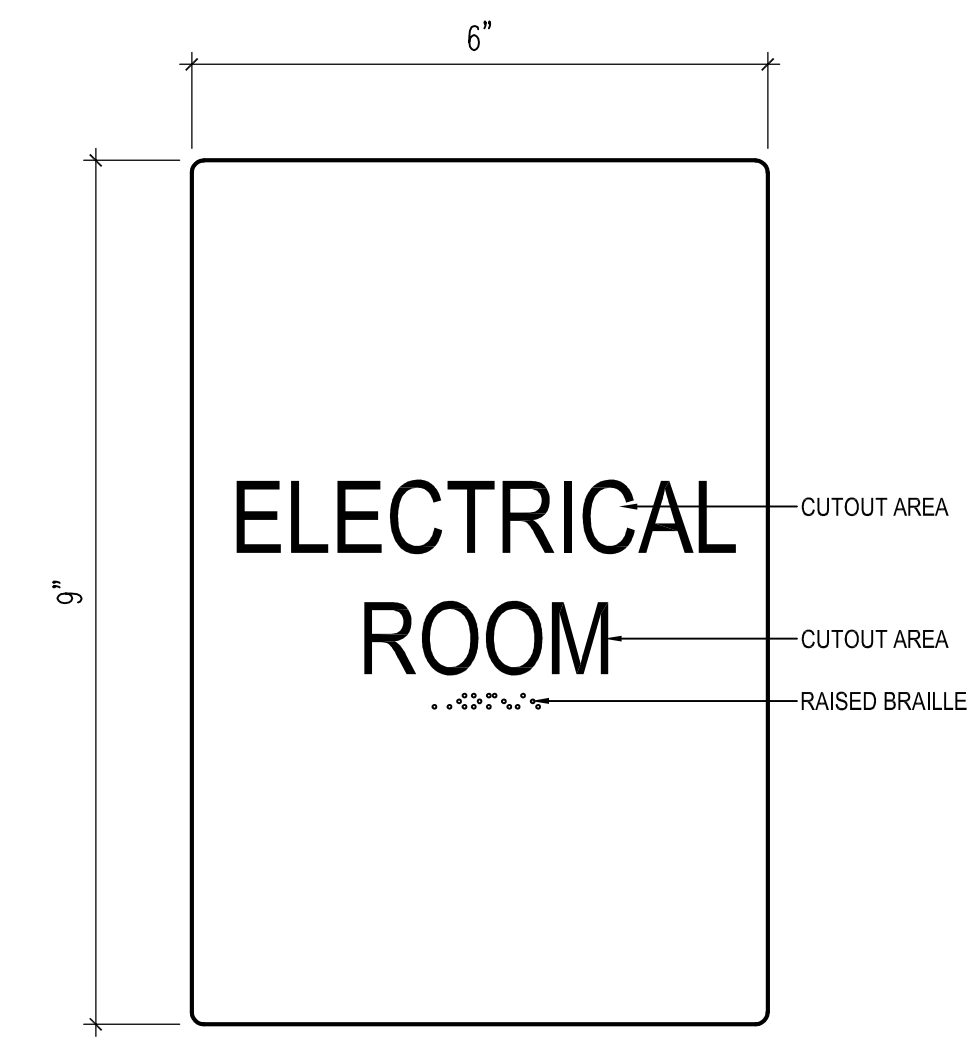
SIZE: 6" W x 9" H
 FONT SIZE: 1" HIGH
 FONT STYLE: STANDARD BOLD
 FONT COLOR: BY ARCHITECT
 BACKGROUND: BY ARCHITECT
 RAISED GRADE 2 BRAILLE
 MATERIAL: PRE-FINISHED METAL
 NOTE: FACE OF SIGN TO BE PRE-FINISHED BLACK

F FAMILY TOILET ROOM SIGN
 SCALE: N.T.S.



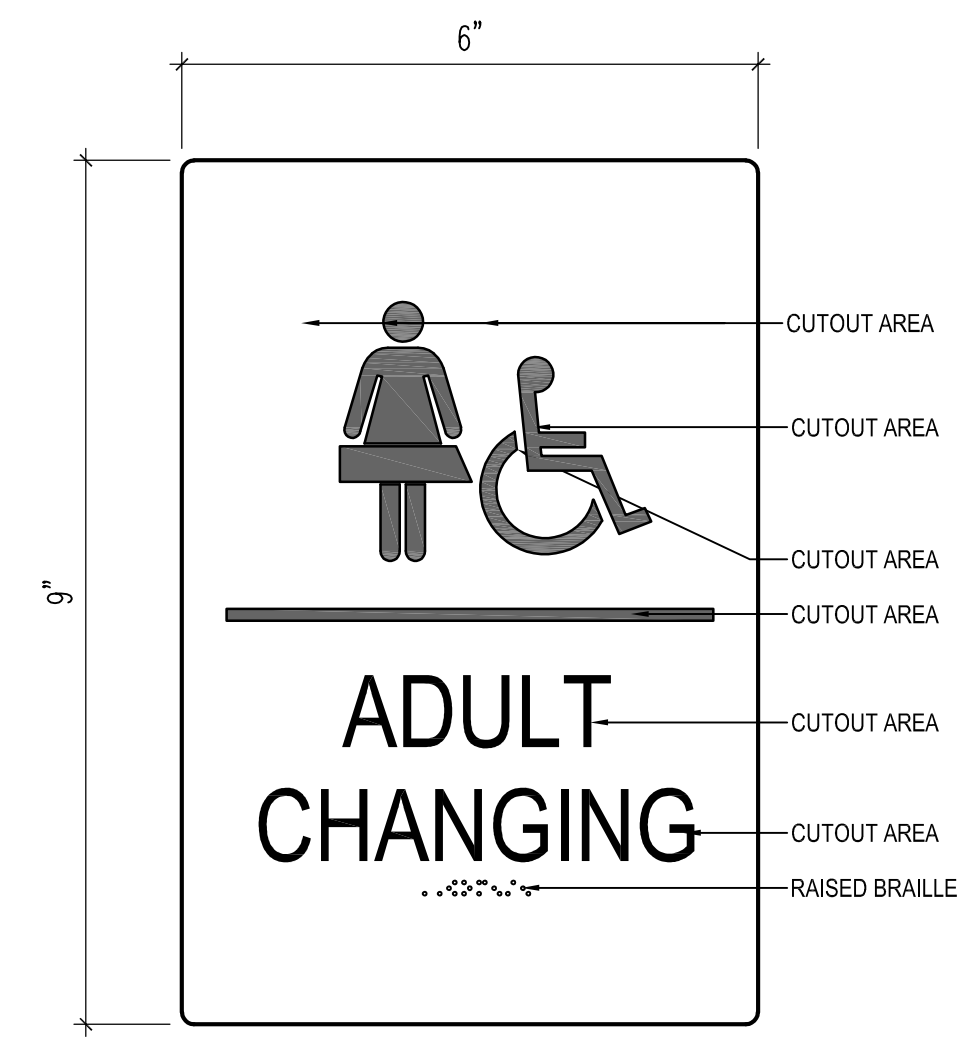
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 FONT SIZE: 1" HIGH
 FONT STYLE: STANDARD BOLD
 FONT COLOR: BY ARCHITECT
 BACKGROUND: BY ARCHITECT
 RAISED GRADE 2 BRAILLE
 MATERIAL: PRE-FINISHED METAL
 NOTE: FACE OF SIGN TO BE PRE-FINISHED BLACK

G MEN'S TOILET ROOM SIGN
 SCALE: N.T.S.



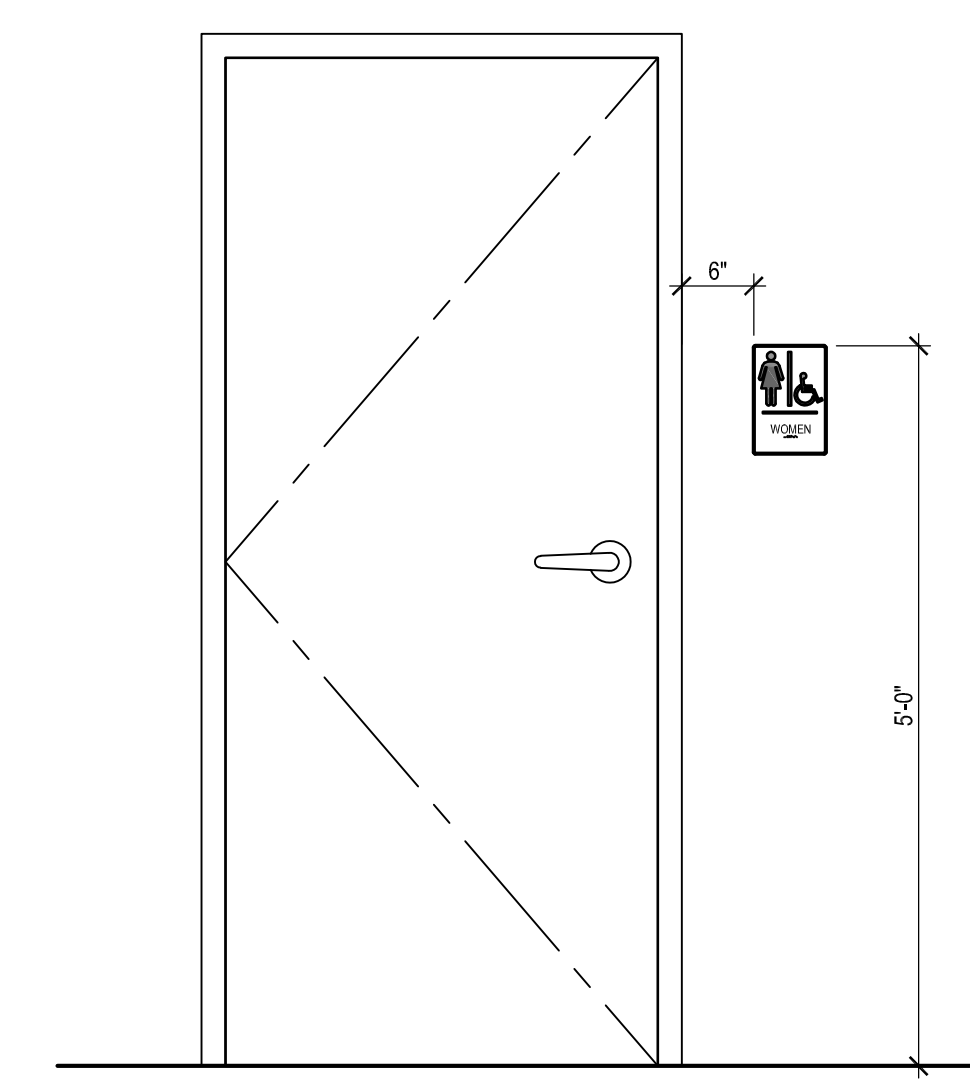
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 FONT COLOR: BY ARCHITECT
 BACKGROUND: BY ARCHITECT
 RAISED GRADE 2 BRAILLE
 MATERIAL: PRE-FINISHED METAL
 NOTE: FACE OF SIGN TO BE PRE-FINISHED BLACK

H ELEC. ROOM
 SCALE: N.T.S.

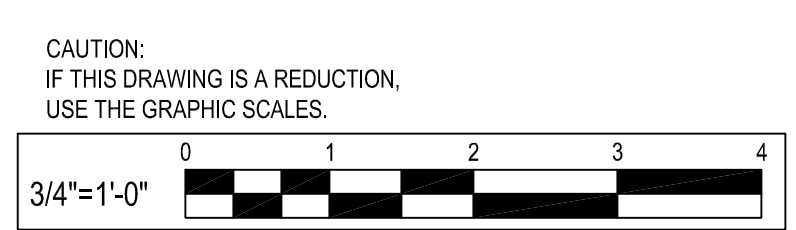


SIZE: 6" W x 9" H
 FONT SIZE: 1" HIGH
 FONT STYLE: STANDARD BOLD
 FONT COLOR: BY ARCHITECT
 BACKGROUND: BY ARCHITECT
 RAISED GRADE 2 BRAILLE
 MATERIAL: PRE-FINISHED METAL
 NOTE: FACE OF SIGN TO BE PRE-FINISHED BLACK

J ADULT CHANGING TABLE SIGN
 SCALE: N.T.S.



1 SIGNAGE ELEVATION
 SCALE: 3/4" = 1'-0"
 NOTES: REFER TO A101 FOR SIGNAGE LOCATION.



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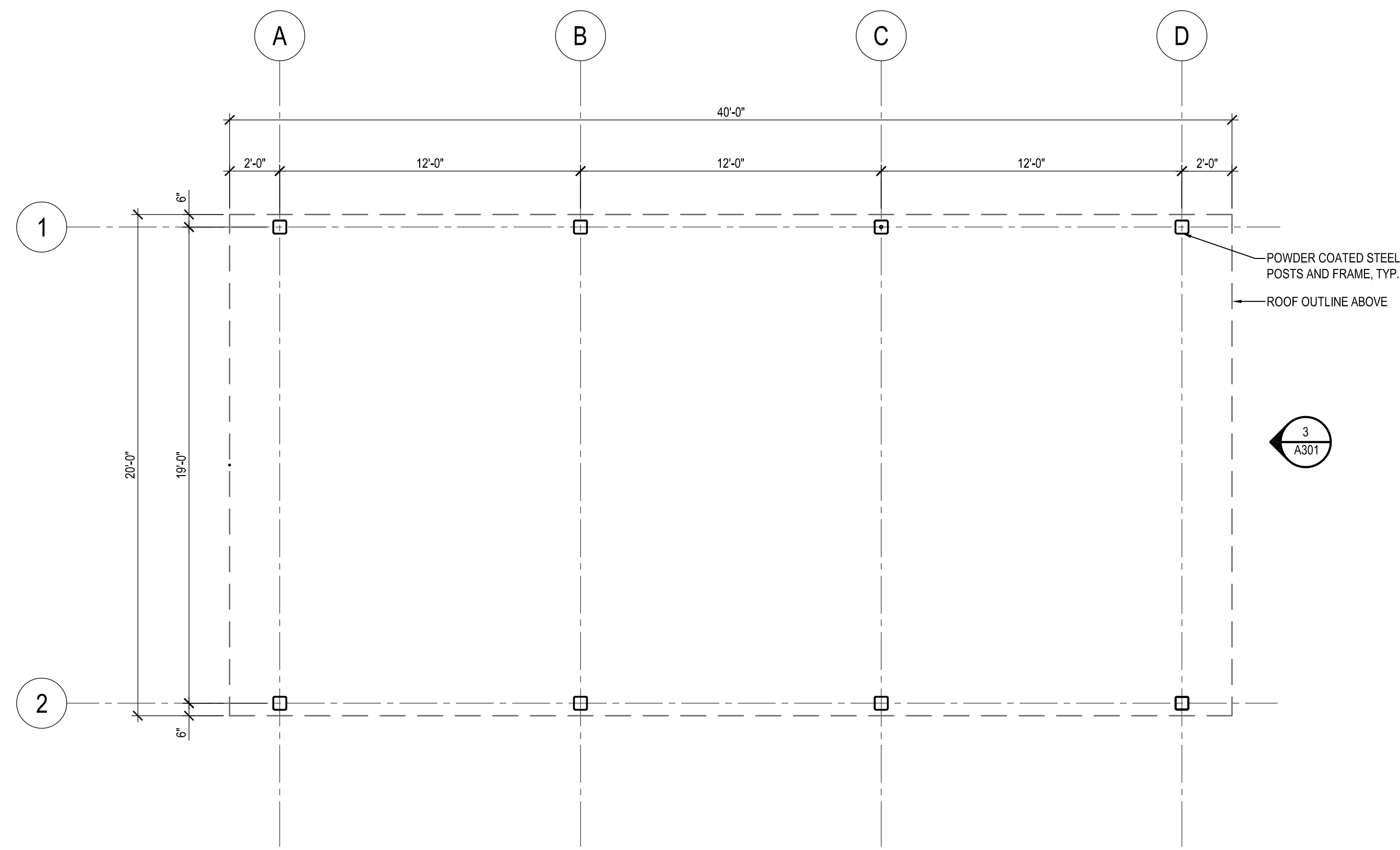
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 License # 15613 Expiration Date: 11/28/24

REVISIONS			
NO.	DESCRIPTION	BY	DATE

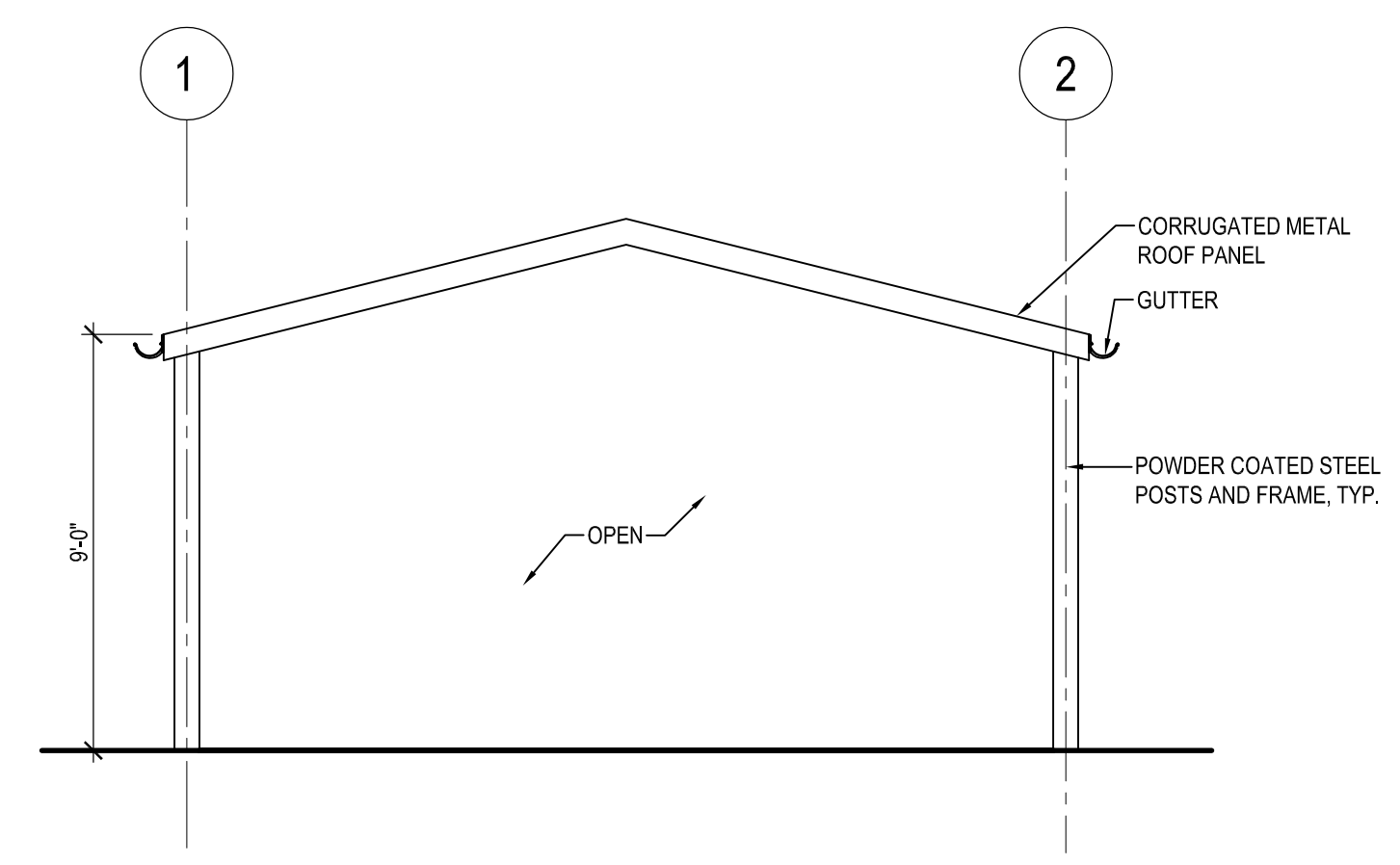
ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: _____	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION SIGNAGE DETAILS
CHEIEF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: A.D.M.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: B.F.	
ASSISTANT CHIEF ENGINEER _____	CHIEF, RIGHT-OF-WAY _____	SHEET NO. 45 OF 63	
		PROJECT NO.: P584501	A207
		CONTRACT NO.: P584500	

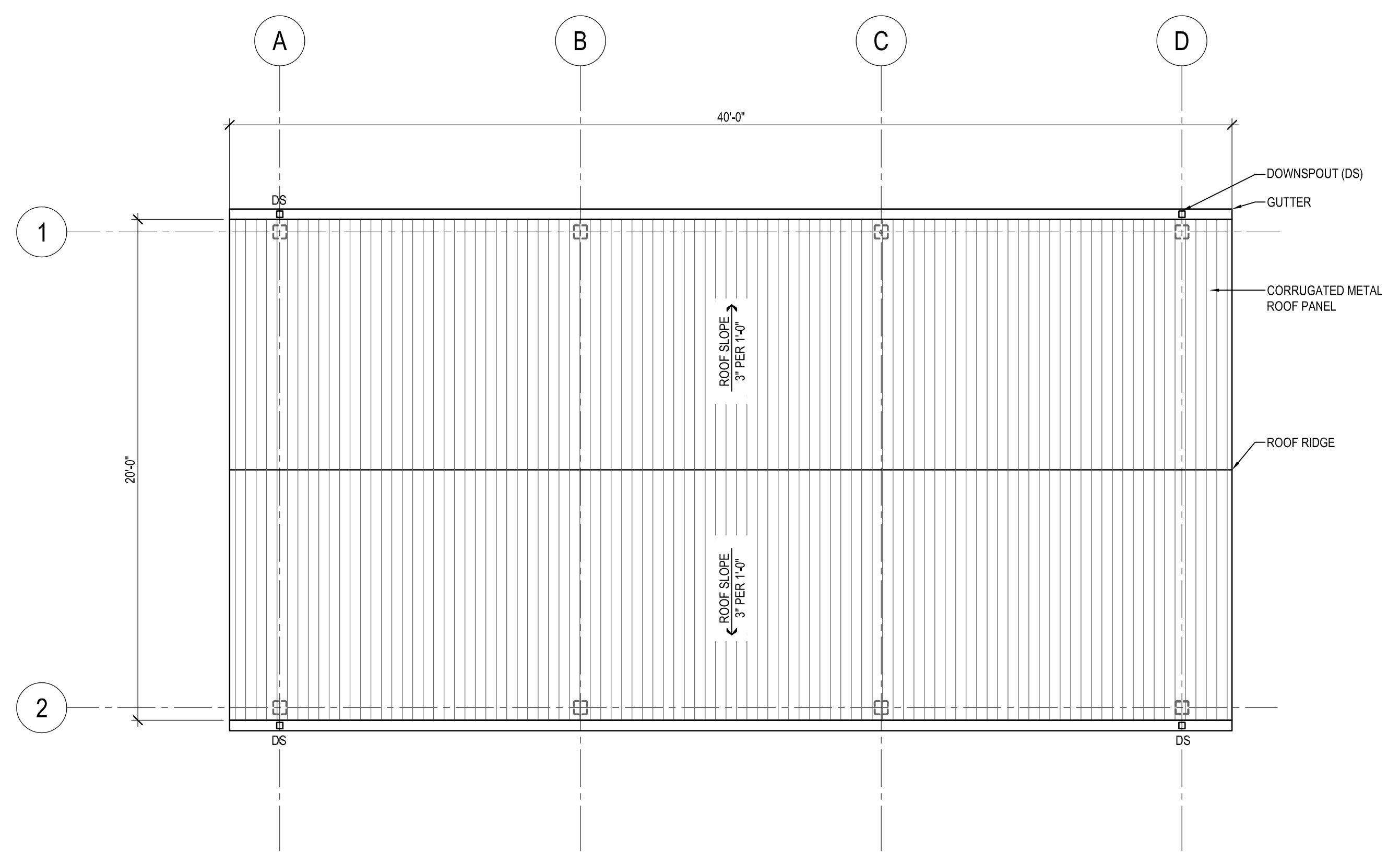
P:\2017\17141806\Drawings\01-Arch\17141806_A201 - BATH_HOUSE DRAWINGS.dwg Nov 07, 2023 9:32am Plot By: dmurkaskis



1 PRE-FABRICATED PAVILION PLAN
SCALE: 1/4"=1'-0"

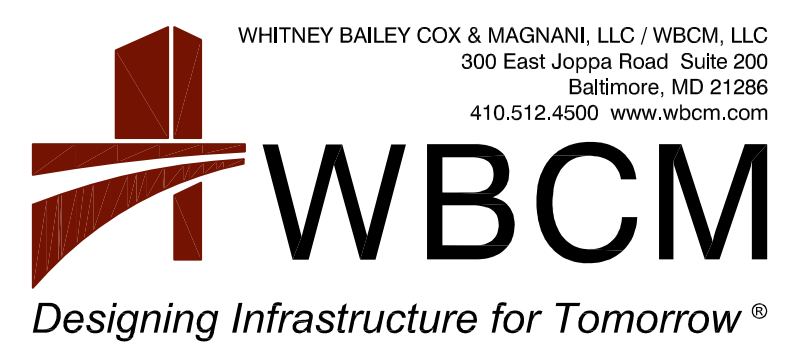


3 PRE-FABRICATED PAVILION ELEVATION
SCALE: 1/4"=1'-0"



2 PRE-FABRICATED PAVILION ROOF PLAN
SCALE: 1/4"=1'-0"

BID SET



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 # 15613 Expiration Date: 11/28/24

REVISIONS			
NO.	DESCRIPTION	BY	DATE

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	
SCALE:		JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION	
DRAWN BY: A.D.M.		PRE-FABRICATED PAVILION DRAWINGS	
CHECKED BY: B.F.		A301	
SHEET NO. 46 OF 63			
PROJECT NO.: P584501			
CONTRACT NO.: P584500			

P:\2017\17141806\Drawings\01-Arch\17141806_A301 - PAVILION DRAWINGS.dwg Nov 07, 2023 - 9:32am Plot By: dmarokis

GENERAL FIRE PROTECTION NOTES

ALL WORK OF THIS CONTRACT SHALL BE COMPLETED IN ACCORDANCE WITH THE 2018 INTERNATIONAL FIRE CODE AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION ON THE WORK OF THIS CONTRACT.

- ALL WORK AND MATERIAL NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL BE PROVIDED BY THE FIRE PROTECTION SPRINKLER CONTRACTOR AND SHALL BE NEW, AND FIRST QUALITY OF THEIR RESPECTIVE KINDS, AND SUBJECT TO THE APPROVAL BY THE ARCHITECT/ENGINEER AND ALL AUTHORITIES HAVING JURISDICTION.
- NOTE: ALL MATERIAL FOR THE COMPLETE FIRE PROTECTION SYSTEM MUST BE U/L, F.M. AND APPROVED TYPE. WHERE, DUE TO UNION REGULATIONS OR TRADE AGREEMENTS, ANY OF THE WORK SHOWN ON THE DRAWINGS OR DESCRIBED IN SPECIFICATIONS IS NOT CONSIDERED THE FIRE PROTECTION CONTRACTOR'S WORK, THE FIRE PROTECTION CONTRACTOR SHALL SUBCONTRACT THIS WORK IN QUESTION, BUT THE FIRE PROTECTION CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE COMPLETE INSTALLATION.
- DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY COOPERATIVE AND TO AGREE, BUT SHOULD ANY DISCREPANCY OR APPARENT DIFFERENCES OCCUR BETWEEN THE DRAWINGS AND SPECIFICATIONS OR SHOULD OCCUR IN THE WORK OF OTHERS AFFECTING THE WORK, THE FIRE PROTECTION SYSTEMS, THE F.P. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AT ONCE. IF THE FIRE PROTECTION CONTRACTOR PROCEEDS WITH THE AFFECTED WORK WITHOUT INSTRUCTIONS FROM THE ARCHITECT/ENGINEER, HE SHALL MAKE GOOD FOR ANY RESULTANT DAMAGE, DEFECT OR VIOLATIONS OF THE APPLICABLE FIRE PROTECTION CODES AT HIS OWN EXPENSE. ALL MISUNDERSTANDINGS OF DRAWINGS AND SPECIFICATIONS SHALL BE CLARIFIED BY THE ARCHITECT/ENGINEER.
- ANY AND ALL SPRINKLER HEADS PLACED IN LOCATION WHERE THEY ARE LIABLE TO BE ACCIDENTALLY DAMAGED IN THE NORMAL COURSE OF EVENTS SHALL BE PROVIDED WITH HEAVY WIRE GUARDS.
- SPRINKLER HEADS, IN GENERAL, SHALL HAVE ORDINARY DEGREE TEMPERATURE RATING, UNLESS OTHERWISE NOTED. ALL HEADS SUBJECT TO ABNORMAL CONDITIONS, AS THOSE IN VICINITY OF HEATING UNITS, BOILERS, OR VERY CLOSE TO HOT PIPING, SHALL BE OF SUFFICIENTLY HIGH TEMPERATURE RATING BASED ON NFPA #13 REQUIREMENTS TO PREVENT THEIR ACCIDENTAL DISCHARGE WHEN NO FIRE IS PRESENT. COORDINATE LOCATION OF ALL THE ABOVE MENTIONED EQUIPMENT WITH HVAC CONTRACTOR AND INDICATE ON THE SHOP DRAWINGS PRIOR TO SUBMITTAL.
- SPRINKLER HEADS IN ALL AREAS ARE TO BE INSTALLED IN THE CENTER OF THE TILE, AND CENTERED WITH LIGHTS, DIFFUSERS OR SIMILAR ELEMENTS AS INDICATED ON ARCHITECTURAL REFLECTED CEILING DRAWINGS. SPRINKLER HEADS SHALL ALSO BE INSTALLED ON A TRUE AXIS LINE IN BOTH DIRECTIONS WITH A TOLERANCE OF $\pm 1/2"$, AT THE COMPLETION OF THE INSTALLATION. IF ANY SPRINKLER HEADS ARE FOUND TO EXCEED THE ABOVE SPECIFIED TOLERANCES, THE FIRE PROTECTION CONTRACTOR SHALL RELOCATE ALL SPRINKLER HEADS THAT ARE NOT INSTALLED PROPERLY. ANY ADJOINING WORK OF ANOTHER TRADE THAT MAY BE DISTURBED IN RELOCATING MISALIGNED SPRINKLER HEADS SHALL BE REPAIRED AT NO COST TO THE OWNER.
- PIPING AND FITTINGS SHALL BE ERRECTED SO THAT THE ENTIRE SYSTEM MAY BE THOROUGHLY DRAINED. ON DRY-PIPE SYSTEMS, BRANCH LINES SHALL BE PITCHED $1/2"$ IN $10'$; CROSS AND FEED MAINS SHALL BE PITCHED $1/4"$ IN $10'$ MINIMUM. ALL FIRE PROTECTION SYSTEMS DRAIN LINES MUST BE PIPED TO A SAFE LOCATION BY THE FIRE PROTECTION CONTRACTOR. FOR EXACT LOCATIONS OF ALL DRAINAGE RECEPTACLES SUCH AS FLOOR DRAINS, SPRINKLER FUNNEL DRAINS, SUMP PITS, ETC. BY THE PLUMBING CONTRACTOR, COORDINATE WITH PLUMBING DRAWING.
- INSTALL O.S.&Y. TYPE GATE VALVES AND OTHER TYPES OF VALVES IN HORIZONTAL POSITION (WITH STEMS POINTED UP OR IN VERTICAL POSITION) WHERE POSSIBLE, BUT IN NO CASE WITH STEMS POINTED DOWNWARD.
- INSTALLATION OF CHECK VALVES:
 - SWING CHECK VALVES: INSTALL IN HORIZONTAL POSITION WITH HINGE PIN LOCATED ON THE UPSIDE OF THE PIPE AND PERPENDICULAR TO THE PIPE'S CENTERLINE.
 - WAFFER CHECK VALVES: INSTALL BETWEEN 2 FLANGES IN HORIZONTAL OR VERTICAL POSITION.
- ALL FIRE PROTECTION SYSTEMS SHALL BE TESTED IN THE PRESENCE OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVES, THE OWNER OR HIS REPRESENTATIVES AND THE LOCAL AUTHORITIES HAVING JURISDICTION OF THE WORK TO BE TESTED, AS MAY BE DIRECTED. AT LEAST 72 HOURS NOTICE SHALL BE GIVEN IN ADVANCE TO ALL PARTIES CONCERNED OF ALL TESTS.
 - THE WORK OF THIS CONTRACTOR SHALL INCLUDE THE FURNISHING OF ALL TESTING INSTRUMENTS, GAUGES, PUMPS AND OTHER EQUIPMENT REQUIRED OR NECESSARY FOR TESTS, REQUIRED BY LAWS, RULES AND REGULATIONS AND AS SPECIFIED.
 - PROVIDE ALL ADDITIONAL TESTS REQUIRED BY LOCAL INSPECTORS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
 - ALL DEFECTS DISCLOSED IN THE WORK BY TESTS AND OTHERWISE, SHALL BE MADE GOOD (BY THE FIRE PROTECTION CONTRACTOR) OR THE WORK REPLACED WITHOUT ADDITIONAL COST TO THE OWNER. NO CAULKING OR PATCHING OF SCREWED JOINTS, CRACKS OR HOLES IN PIPING SYSTEM WILL NOT BE ACCEPTABLE.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, PIPING, ETC. THE FIRE PROTECTION CONTRACTOR SHALL MAKE ALL REQUIRED MODIFICATIONS IN THE LAYOUT WORK THAT MAY BE REQUIRED TO SUIT ACTUAL JOB CONDITIONS WITHOUT EXTRA COMPENSATION.
- THE FIRE PROTECTION CONTRACTOR SHALL ASCERTAIN THAT ALL HIS EQUIPMENT, SUCH AS VALVES, ETC. IS MADE EASILY ACCESSIBLE FOR OPERATION AND MAINTENANCE, AS MAY BE NECESSARY TO BE REACHED FROM TIME TO TIME FOR OPERATION AND MAINTENANCE.
- BEFORE STARTING ANY WORK, THE FIRE PROTECTION CONTRACTOR SHALL CONSULT THE ARCHITECT'S DETAILED DRAWINGS AND STRUCTURAL DRAWINGS FOR SPACES AND HEADROOM ALLOWED FOR THE INSTALLATION OF ALL PIPING, EQUIPMENT, ETC. SHOULD ANY PIPING OR EQUIPMENT REQUIRE MORE SPACE THAN ALLOWED FOR, OR ENCRUSCH UPON SUSPENDED CEILINGS OR AVAILABLE HEADROOM AS PLANNED, THE FIRE PROTECTION CONTRACTOR SHALL CALL THE ARCHITECT'S/ ENGINEER'S ATTENTION TO SAME AND OBTAIN HIS APPROVAL BEFORE INSTALLING THE WORK.
- REDUCING TYPE COUPLING SIMILAR TO "VICTAULIC" (OR APPROVED EQUAL) FIG. No. 750 AND FITTING STYLES FIG. 921 AND 925 WILL NOT BE PERMITTED.
- FITTINGS AND COUPLINGS FOR PLAIN END PIPE SIMILAR TO "VICTAULIC" (OR OTHER APPROVED EQUAL) FIT TYPE FITTINGS AND "ROUST-ABOUT" AND "PLAINLOCK" COUPLINGS WILL NOT BE PERMITTED.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL NECESSARY STRUCTURAL MEMBERS, HANGERS AND SUPPORTS OF APPROVED DESIGN TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES, WHERE HANGERS, BRACKETS, ETC. ARE SUPPORTED FROM CONCRETE CONSTRUCTION, CARE SHALL BE TAKEN NOT TO WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERRECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED, BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION.
 - PIPING SHALL NOT BE SUPPORTED FROM METAL DECKING.
 - TRAPEZE TYPE HANGERS, IF REQUIRED, SHALL BE MADE UP OF ANGLES OR CHANNELS BOLTED BACK-TO-BACK FOR SUPPORTING PARALLEL LINES OF PIPING. TRAPEZE TYPE HANGERS SHALL BE SUPPORTED WITH SUSPENSION RODS HAVING DOUBLE NUTS SECURELY ATTACHED TO CONSTRUCTION WITH INSERTS, BEAM CLAMPS, STEEL FISH PLATES, CANTILEVER BRACKETS, LAG SCREWS OR OTHER APPROVED MEANS. USE APPROVED TYPE BRACKETS FOR SUPPORTING PIPING ATTACHED ALONG WALLS. FIRE PROTECTION PIPING SUPPORTED BY TRAPEZE HANGERS SHALL BE PROVIDED WITH HOLD DOWN CLAMPS.
 - PROVIDE NECESSARY LONGITUDINAL AND LATERAL SWAY BRACING FOR FEED AND CROSS MAINS. INDICATE LOCATION OF THE BRACES ON THE SHOP DRAWINGS. SUBMIT ALL DETAILS FOR SEISMIC HANGERS.
 - SUPPORTS FOR VERTICAL PIPING SHALL BE DOUBLE BOLT RISER CLAMPS, WITH EACH END HAVING EQUAL BEARING ON THE BUILDING STRUCTURE. CUT EXISTING RISERS AND PROVIDE FLEXIBLE COUPLING ON ALL RISERS $4"$ AND LARGER AS REQUIRED BY NFPA. PROVIDE FLEXIBLE COUPLINGS AT ALL OTHER OTHER LOCATIONS AS REQUIRED BY NFPA-13. USE 4-WAY SWAY BRACE TO SECURE TOP OF EACH RISER AGAINST DRIFTING IN ANY DIRECTION.
 - USE OF "C"-TYPE CLAMPS WITHOUT A RETAINING STRAP TO ATTACH HANGERS TO A BUILDING STRUCTURE IS PROHIBITED. USE OF "C"-TYPE CLAMPS WITH OR WITHOUT RETAINING STRAPS TO ATTACH BRACES TO THE BUILDING.
 - THE ARCHITECT/ENGINEER MUST APPROVE METHOD OF SUPPORTING PIPES FROM BUILDING STRUCTURE BEFORE WORK IS STARTED. THIS CONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR MATERIALS AND WORKMANSHIP AS DESCRIBED IN THESE NOTES, AND SHALL MAKE SURE THAT ALL HANGERS AND SUPPORTS ARE PROPERLY AND PERMANENTLY CONNECTED TO THE BUILDING STRUCTURE.
- WATERFLOW DETECTORS SHALL BE DESIGNED FOR MOUNTING ON EITHER VERTICAL OR HORIZONTAL PIPING, BUT SHALL NOT BE MOUNTED IN A FITTING OR WITHIN MINIMUM DISTANCE, AS DESCRIBED IN MANUFACTURER'S INSTALLATION RECOMMENDATIONS, OF ANY FITTING THAT CHANGES THE DIRECTION OF WATER FLOW.
- RISER AND BRANCH ASSEMBLIES, INCLUDING TRIMMINGS, SHALL BE INSTALLED AT LOCATIONS AS DIRECTED. APPROVED TYPE DEVICES SHALL BE INSTALLED FOR THE AUTOMATIC ANNUNCIATION OF THE FLOW OF WATER. EACH WET PIPE ASSEMBLY AND ITS APPURTENANCES SHALL BE SO ARRANGED AND EQUIPPED IN AN APPROVED MANNER THAT THE TRANSMISSION OF ACCIDENTAL WATERFLOW ALARMS (DUE TO SURGES OR RELATED CONDITIONS) WILL POSITIVELY BE PREVENTED.
- DIRECT CONNECTION FROM ANY DRAIN TO ANY COMPONENT OF THE SANITARY OR STORM DRAINAGE SYSTEM SHALL BE PROHIBITED.
- SPRINKLER HEADS INSTALLED IN FITTINGS BEFORE PIPING IS ERRECTED SHALL BE PROHIBITED.
 - TESTS ARE NOT PERMITTED TO BE MADE WITH AIR, EXCEPT WHEN SPECIFICALLY INDICATED, OR FOR DRY-PIPE SYSTEMS.
 - THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY TEST PLUGS OR TEE FITTINGS DURING ERECTION OF PIPE SYSTEM FOR THE PURPOSE OF PERFORMING SYSTEMS TESTING.
 - ALL PIPING WHICH IS TO BE ENCLOSED IN PARTITIONS OR SUSPENDED CEILINGS SHALL BE TESTED AND MADE TIGHT WHEN DIRECTED BY THE CONSTRUCTION SUPERVISOR AND IN ADEQUATE TIME TO PERMIT THE INSTALLATION OF PARTITIONS AND CEILINGS. WHEN NECESSARY, THIS CONTRACTOR SHALL DRAIN THE PIPING AND/OR TAKE SUCH PRECAUTIONS AS REQUIRED TO PREVENT DAMAGE BY FREEZING.

SYMBOLS AND ABBREVIATIONS

	W	WATER SUPPLY MAIN	A.B.D.	AUTOMATIC BALL DRIP
	SP	SPRINKLER PIPING (SP.)	A.D.	ACCESS DOOR
	FSP	COMBINED FIRE STANDPIPE AND SPRINKLER PIPING	AFF	ABOVE FINISHED FLOOR
	DR	SPRINKLER DRAIN PIPING	ARCH	ARCHITECTURAL
		DRAIN VALVE (D.V.)	CLG.	CEILING
		OS&Y GATE VALVE WITH TAMPER SWITCH	C.V.	CHECK VALVE
		WATERFLOW SWITCH	CONN	CONNECTION
		STRAINER	DN.	DOWN
		GUIDE	DTL	DETAIL
		PRESSURE GAUGE	EL.	ELEVATION
		WATERTIGHT SLEEVE (WTSLV)	EX,EXIST	EXISTING
		PIPING TO BE REMOVED, SERVICE AS NOTED	F.D.	FLOOR DRAIN
		UNION CONNECTION	FL. DR.	FLOOR DRAIN
		DIELECTRIC FITTING	FUN. DR.	FUNNEL DRAIN
	FCVA	WET SPRINKLER SYSTEM - FLOOR CONTROL VALVE ASSEMBLY IN CABINET	G.V.	GATE VALVE
	FCVA-1	WET SPRINKLER SYSTEM - FLOOR CONTROL VALVE ASSEMBLY WITHOUT CABINET	INV.	INVERT
	A	A - DENOTES DETAIL (D), SECT (S), PART PLAN (P) ...	N.A.S.	NO AUTOMATIC SPRINKLERS
	B	B - DENOTES DETAIL OR SECTION No.	N.I.C.	NOT IN CONTRACT
	C	C - DENOTES DRAWING IT IS ON	N.T.S.	NOT TO SCALE
	1	HYDRAULIC CALCULATIONS REFERENCE POINT	OS&Y	OUTSIDE SCREW & YOKE
	M	METER ASSEMBLY	PLBG.	PLUMBING
	BFP	BACKFLOW PREVENTER ASSEMBLY	RCV	RISER CONTROL VALVE
		NEW PIPE	SLV	SLEEVE
			T & D	TEST AND DRAIN CONNECTION
			TOS	TOP OF SLAB
			TTB	TIGHT TO BEAM
			TS	TAMPER SWITCH
			TYP.	TYPICAL
			VERT.	VERTICAL
			VF	VERIFY IN FIELD
			FCVA	FLOOR CONTROL VALVE ASSEMBLY

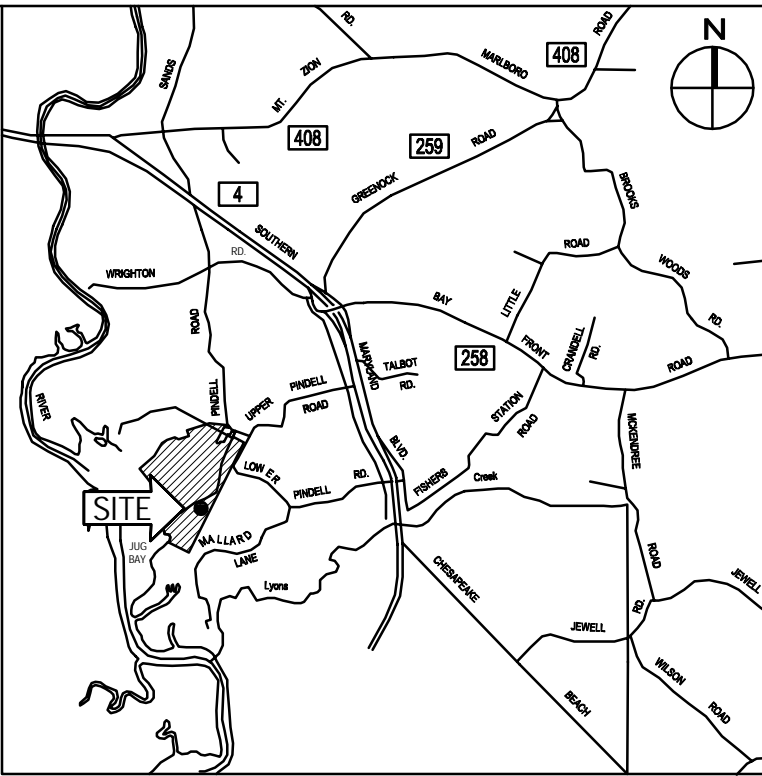
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Nov 07, 2023 - 8:06am

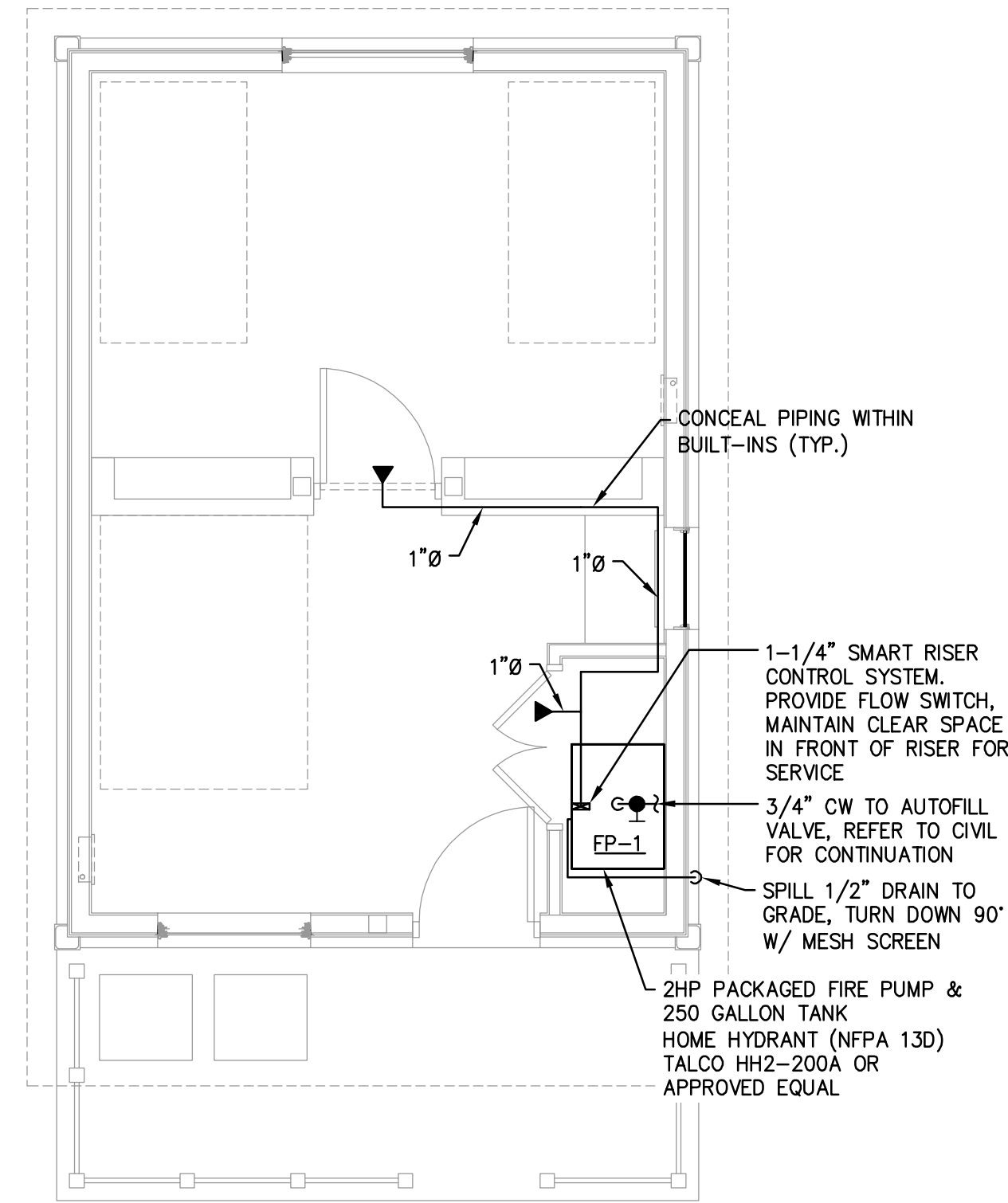
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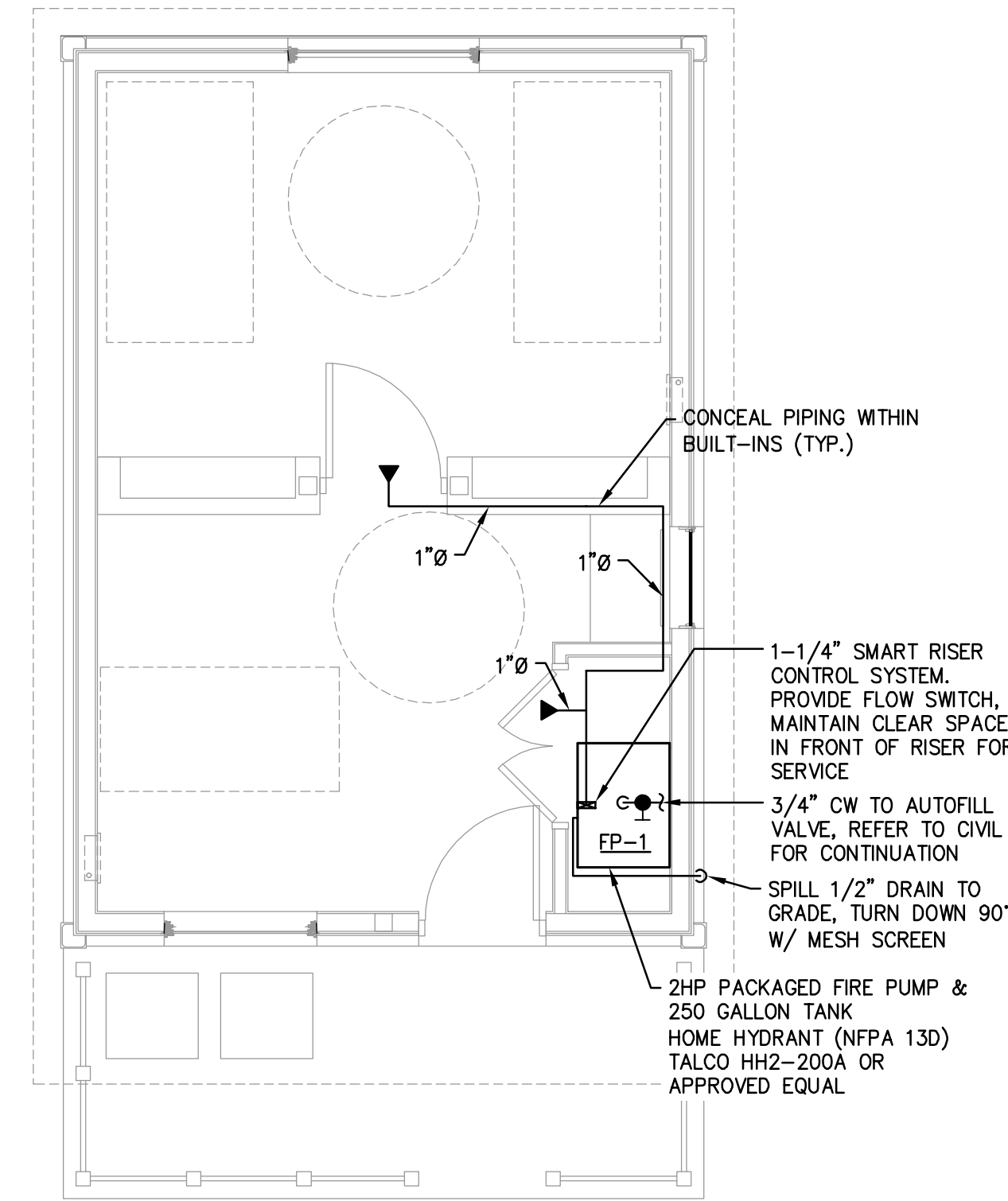
<p>WHITNEY BAILEY COX & MAGNANI, LLC 300 East Joppa Road Suite 200 Baltimore, MD 21286 410.512.4500 www.wbcm.com</p> <p>WBCM Designing Infrastructure for Tomorrow®</p>				<p>ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS</p>																																							
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				NO.	DESCRIPTION	BY	DATE																																	<p>APPROVED _____ DATE _____</p> <p>CHEIF ENGINEER _____</p>		<p>APPROVED _____ DATE _____</p> <p>PROJECT MANAGER _____</p>	
NO.	DESCRIPTION	BY	DATE																																								
<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. License # 18195, Expiration Date: 08/06/24</p>				<p>APPROVED _____ DATE _____</p> <p>ASSISTANT CHEIF ENGINEER _____</p>		<p>APPROVED _____ DATE _____</p> <p>CHEIF, RIGHT-OF-WAY _____</p>																																					
				<p>SCALE: N.T.S.</p> <p>DRAWN BY: M.T.D.</p> <p>CHECKED BY: J.A.B.</p> <p>SHEET NO. 47 OF 63</p> <p>PROJECT NO.: P584501</p> <p>CONTRACT NO.: P584500</p>		<p>JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION</p> <p>GENERAL NOTES, SYMBOLS AND ABBREVIATIONS</p> <p>FP001</p>																																					



VICINITY MAP
SCALE: 1" = 8,333'



TYPICAL CABIN FLOOR PLAN - FIRE PROTECTION
SCALE: 1/4"=1'-0"



TYPICAL ADA CABIN FLOOR PLAN - FIRE PROTECTION
SCALE: 1/4"=1'-0"

SCHEDULE OF SPRINKLER HEADS									
SPRINKLER SYMBOL	MANUFACTURER & MODEL No.	TYPE	LOCATION	FINISH & REMARKS	'K' FACTOR	SP. HD. COVERAGE	MIN. FLOW	MIN. PRESS.	APPROVALS
◀	VIKING MODEL VK460 OR APPROVED EQUAL	HORIZONTAL SIDEWALL	CABIN	COATED AS APPROVED BY THE ARCHITECT	5.8	---	---	---	UL/FM

NOTES:

- SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
- ALL SPRINKLER HEAD FINISHES TO BE APPROVED BY ARCHITECT.
- SPRINKLER HEADS MINIMUM FLOW & MINIMUM PRESSURE REQUIREMENTS TO BE BASED ON HYDRAULIC CALCULATIONS AND DESIGN DENSITIES (ALL TO BE PROVIDED AND CONFIRMED BY THE SPRINKLER CONTRACTOR).

BID SET

	<p>WHITNEY BAILEY COX & MAGNANI, LLC 300 East Joppa Road Suite 200 Baltimore, MD 21286 410.512.4500 www.wbcm.com</p>				<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				NO.	DESCRIPTION	BY	DATE																	<p>ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS</p>			
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<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. License # 181795, Expiration Date: 08/06/24</p>		<p>APPROVED _____ DATE _____</p> <p>CHIEF ENGINEER</p>		<p>APPROVED _____ DATE _____</p> <p>PROJECT MANAGER</p>		<p>SCALE: AS NOTED</p> <p>DRAWN BY: M.J.F.</p> <p>CHECKED BY: J.A.B.</p>		<p>JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION</p>																								
<p>APPROVED _____ DATE _____</p> <p>ASSISTANT CHIEF ENGINEER</p>		<p>APPROVED _____ DATE _____</p> <p>CHIEF, RIGHT-OF-WAY</p>		<p>SHEET NO. 48 OF 63</p> <p>PROJECT NO.: P584501</p> <p>CONTRACT NO.: P584500</p>		<p>CABIN FLOOR PLAN FIRE PROTECTION</p> <p>FP101</p>		<p>© WBCM 2023</p>																								

GENERAL NOTES

- THE FOLLOWING NOTES SHALL APPLY THROUGHOUT. EXCEPTIONS ARE SPECIFICALLY NOTED ON DRAWINGS.
- ALL WORK OF THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL CODE AND REGULATIONS OF OTHER AGENCIES HAVING JURISDICTION ON THE WORK OF THIS CONTRACT.
 - ALL WORK SHALL COMPLY WITH THE PROVISIONS OF THE:
 - 2018 INTERNATIONAL BUILDING CODE (IBC)
 - 2018 INTERNATIONAL MECHANICAL CODE (IMC)
 - 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
 - 2018 INTERNATIONAL FIRE CODE (IFC)
 - ALL WORK ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE AND/OR BUILDING.
 - COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED BETWEEN ALL TRADES TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
 - THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED OR EXPOSED SURFACES DUE TO CONTRACT WORK. ALL NEWLY INSTALLED, PATCHED WORK AND ALL AFFECTED AREAS SHALL BE PAINTED. ALL PAINTING WORK SHALL BE PERFORMED TO COVER THE ENTIRE HORIZONTAL OR VERTICAL SURFACE TO THE CLOSEST CORNER IN ALL FOUR DIRECTIONS. COLORS TO BE APPROVED BY ARCHITECT PRIOR TO APPLICATION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
 - WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON DRAWINGS, IT SHALL BE CONSTRUCTED TO MEAN THE ESTABLISHMENT OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL OTHER PRODUCTS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE THEY SHALL BE DEEMED EQUAL.
 - FIRESTOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTION.
 - THE CONTRACTOR SHALL KEEP WORK SITE FREE FROM DEBRIS AND ACCUMULATED REFUSE, AND SHALL HAVE SOLE RESPONSIBILITY FOR PROTECTING ALL DANGEROUS AREAS FROM ENTRY BY UNAUTHORIZED PARTIES. SITE SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
 - UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR THE REQUIRED CONSTRUCTION PERMITS, FEES LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK. APPLICATION FOR CONSTRUCTION PERMITS SHALL BE PROCESS THROUGH THE BUILDING CODE COMPLIANCE INSPECTION DIVISION AUTHORITY.
 - INSPECTIONS SHALL BE CONDUCTED TO SHOW COMPLIANCE OF THE INSTALLATION WITH THE DRAWINGS AND PROPER FUNCTION OF ALL EQUIPMENT AND DEVICES BEFORE THE SYSTEM IS APPROVED. THE INSPECTION SHALL INCLUDE CONDUCTING A PRELIMINARY TEST OF THE EQUIPMENT FOR THE PURPOSE OF CHECKING GENERAL OPERATION AND MAKING THE NECESSARY ADJUSTMENTS.
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, EQUIPMENT USE PERMITS, ALL INSPECTION APPROVALS, AND LETTER OF COMPLETION FROM THE FILING AGENCY FOR WORK UNDER THIS CONTRACT.
 - CONTRACTOR MUST INSULATE, PAINT, LABEL, AND TAG ALL NEW EQUIPMENT, AND DUCTWORK.
 - CONTRACTOR MAY PROPOSE ALTERNATE ROUTING IN DIFFICULT AREAS. ANY AND ALL ALTERNATE ROUTING IS SUBJECT TO PRIOR REVIEW AND APPROVAL BY THE ENGINEER.
 - ALL NEW ROOF PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR TO BE PATCHED AND SEALED BY THE OWNER'S ROOFING CONTRACTOR.

BUILDING DEPARTMENT NOTES

- ALL WORK SHALL BE EXECUTED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF ALL LOCAL LAWS, BY LAWS, STATUTES, ORDINANCES, CODES, RULES, REGULATIONS, AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON THE PERFORMANCE AND EXECUTION OF WORK.
- ALL DUCTWORK AND FITTINGS SHALL BE INSTALLED AS PER THE LATEST ADDITION OF SMACNA STANDARDS.
 - EQUIPMENT SHALL BE LISTED AND APPROVED AS REQUIRED PER IMC SECTIONS 102 AND 107.
 - ALL PERMITS, INSPECTIONS, AND TESTING SHALL BE COMPLETED IN ACCORDANCE WITH IMC SECTIONS 106 AND 107.
 - DUCT CONSTRUCTION AND INSTALLATION SHALL ADHERE TO ALL REQUIREMENTS SPECIFIED WITHIN IMC SECTION 603.
 - ALL DUCT AND TRANSFER OPENINGS SHALL COMPLY WITH IMC SECTION 607.
 - ALL FUEL BURNING EQUIPMENT SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL FUEL GAS CODE AND CHAPTER 9 OF THE IMC.
 - REFRIGERANT PIPING SHALL BE INSTALLED IN ACCORDANCE IMC CHAPTER 11.
 - DUCTWORK SHALL BE INSULATED AS PER IMC SECTION 604 AND IECC SECTION 403.
 - DUCTWORK SUPPORTS SHALL BE PROVIDED AS PER IMC SECTION 603.1.
 - ALL EQUIPMENT AND DUCTWORK INSULATION SHALL ADHERE TO ALL REQUIREMENTS SPECIFIED WITHIN IMC SECTION 304 AND IECC SECTION 403.
 - THERMOSTATS SHALL HAVE DEAD-BAND, SET BACK, AND START-UP & SHUTDOWN CAPABILITIES AS PER IECC SECTION 403.
 - HVAC EQUIPMENT SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS IN IECC SECTION 403.
 - ALL EXHAUST SYSTEMS AND ASSOCIATED DISCHARGE LOCATIONS SHALL BE IN FULL COMPLIANCE WITH IMC CHAPTER 5.

DUCT SYMBOLS

	INCLINED DROP IN DUCT WITH RESPECT TO AIR FLOW.		MITERED ELBOW WITH TURNING VANES
	INCLINED DROP IN DUCT WITH RESPECT TO AIR FLOW.		ROUND TO SQUARE TRANSITION
	SUPPLY DUCT RISER		SUPPLY AIR GRILLE
	RETURN/EXHAUST DUCT RISER		RETURN/EXHAUST AIR GRILLE
	OUTSIDE AIR DUCT RISER		TRANSFER AIR WALL OPENING
	SUPPLY AIR CEILING DIFFUSER		FIRE DAMPER AND ACCESS DOOR
	RETURN AIR REGISTER		VOLUME DAMPER
	EXHAUST AIR REGISTER		GRAVITY DAMPER
	WALL LOUVER		MOTORIZED DAMPER
	ROOF MOUNTED EXHAUST FAN		FIRE SMOKE DAMPER
	AIRFLOW MONITORING SYSTEM		FIRE DAMPER

SYMBOLS

	PIPE RISER		UNION (FLANGED OR SCREWED)
	PIPE RISE		THREADED CAP
	PIPE DROP		MANUAL AIR VENT
	PIPE TEE UP		STRAINER
	PIPE TEE DN		PLUG COCK
	90 DEGREE TOP CONNECTION		THERMOSTATIC TRAP
	90 DEGREE BOTTOM CONNECTION		POINT OF DISCONNECTION
	CONCENTRIC REDUCER		POINT OF CONNECTION TO EXISTING
	GATE VALVE		DOOR UNDERCUT
	GLOBE VALVE		DOOR LOUVER
	AUTOMATIC CONTROL VALVE		THERMOSTAT
	BALL VALVE		MANUAL WALL SWITCH
	CHECK VALVE		CARBON MONOXIDE DETECTOR

ABBREVIATIONS

AD	ACCESS DOOR	GRD	GRILLE, REGISTER, & DIFFUSER
AFF	ABOVE FINISHED FLOOR	HC	HEATING COIL
AHU	AIR HANDLING UNIT	MBH	THOUSAND BTU'S PER HOUR
BOD	BOTTOM OF DUCT	MD	MOTORIZED DAMPER
BOG	BOTTOM OF GRILLE	NIC	NOT IN CONTRACT
C	CONDENSATE	NTS	NOT TO SCALE
CC	COOLING COIL	NC	NORMALLY CLOSED
CD	CEILING DIFFUSER	NO	NORMALLY OPEN
CDR	CONDENSATE DRAIN	OAD	OUTSIDE AIR DAMPER
CS	CEILING GRILLE	OAI	OUTSIDE AIR INTAKE
CR	CEILING REGISTER	OED	OPEN ENDED DUCT
CFM	CUBIC FEET PER MINUTE	RA	RETURN AIR
DWG	DRAWING	RR	RETURN REGISTER
E	EXISTING	RTU	ROOFTOP UNIT
EA	EXHAUST AIR	SA	SUPPLY AIR
EF	EXHAUST FAN	SF	SUPPLY FAN
EUH	ELECTRIC UNIT HEATER	TAB	TESTING, ADJUSTING, AND BALANCING
EL	ELEVATION	TRO	TRANSFER OPENING
EL	FIRE DAMPER WITH ACCESS DOOR	TYP	TYPICAL
FD	FIRE DAMPER WITH ACCESS DOOR	UH	UNIT HEATER
FC	FLEXIBLE CONNECTION	V	VENT
GX	GENERAL EXHAUST	WMS	WIRE MESH SCREEN
GLS&R	GLYCOL SUPPLY & RETURN		

HEATER SCHEDULE

TAG	WH-1	WH-2
TYPE	ELECTRIC WALL HEATER	ELECTRIC WALL HEATER
LOCATION	VARIOUS	BATHHOUSE/MECHANICAL
MANUFACTURER	QMARK	QMARK
MODEL	SSH04004	AWH4404F
kW	1.8/4.0	2.0/4.0
ELEC.	240/1/60	240/1/60
AMPS	7.5/16.7	8.3/16.7
NOTES	1,2,4,5,6	1,3,4,5,6

- NOTES:
 1. PROVIDE DISCONNECT SWITCH
 2. PROVIDE INTEGRAL THERMOSTAT
 3. PROVIDE BUILT-IN TAMPER RESISTANT SINGLE-POLE THERMOSTAT
 4. WALL MOUNTED. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECT
 5. COORDINATE COLOR/FINISH WITH ARCHITECT.
 6. UNIT HEATER IS BASED ON THE MANUFACTURER PROVIDED OR APPROVED EQUAL

EXHAUST FAN SCHEDULE

TAG	EF-1
LOCATION	BATH HOUSE
MANUFACTURER	GREENHECK
MODEL	SP-B200
CFM	140
ESP (IN. WG)	0.25
RPM	980
ELEC.	115/1/60
WATTS	172
NOTES	1,2

- NOTES:
 1. PROVIDE ROUND DUCT CONNECTION AND HOODED ROOF CAP WITH BIRDSCREEN AND BACKDRAFT DAMPER. COORDINATE COLOR/FINISH OF WALL CAP WITH ARCHITECT.
 2. EXHAUST FAN IS BASED ON THE MANUFACTURER PROVIDED OR APPROVED EQUAL.

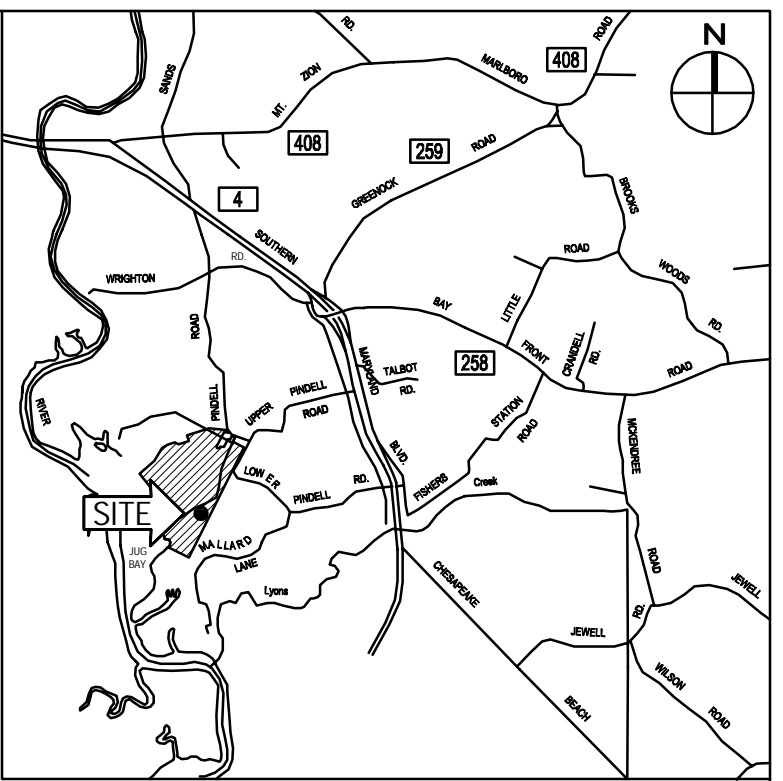
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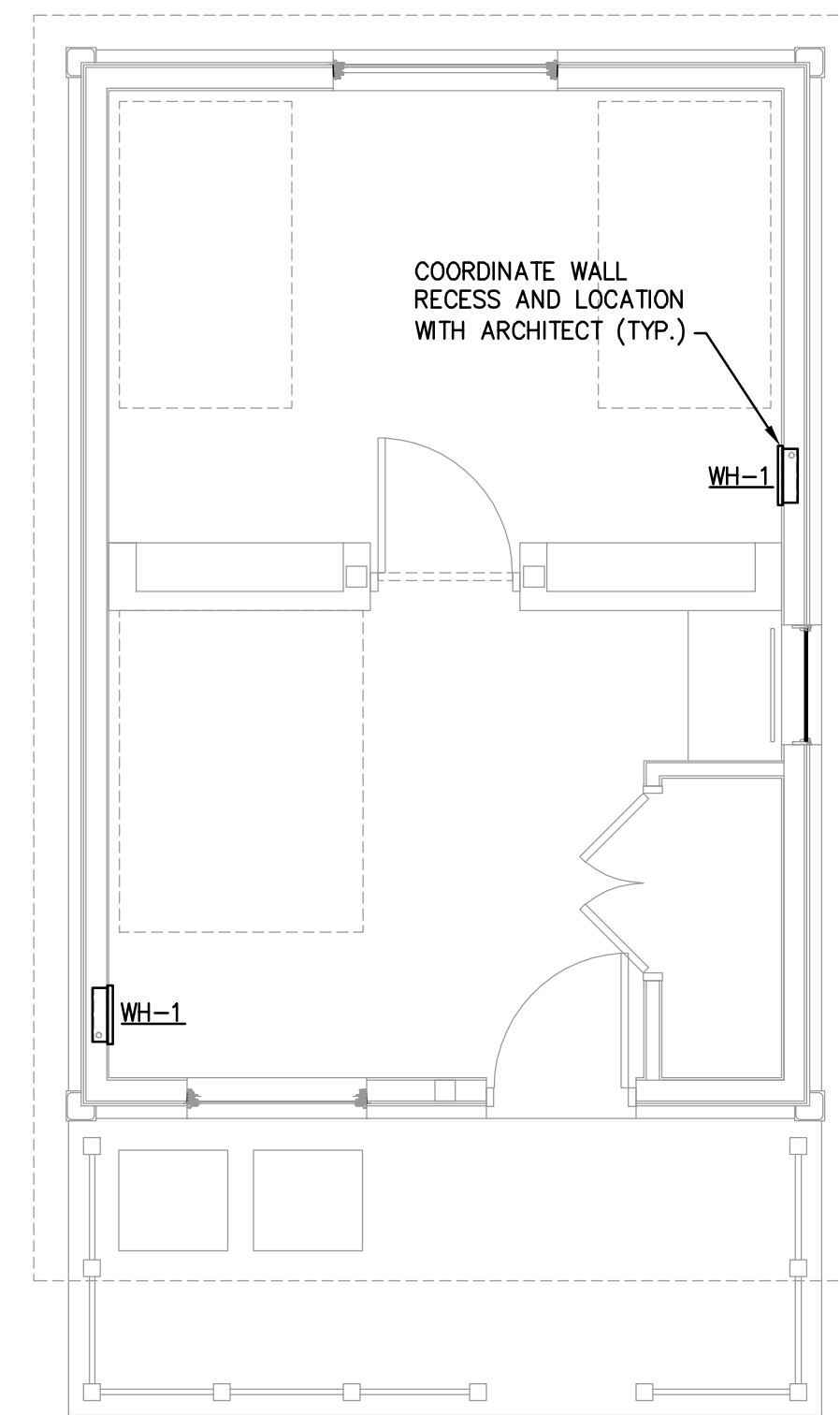
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NO.	DESCRIPTION	BY	DATE

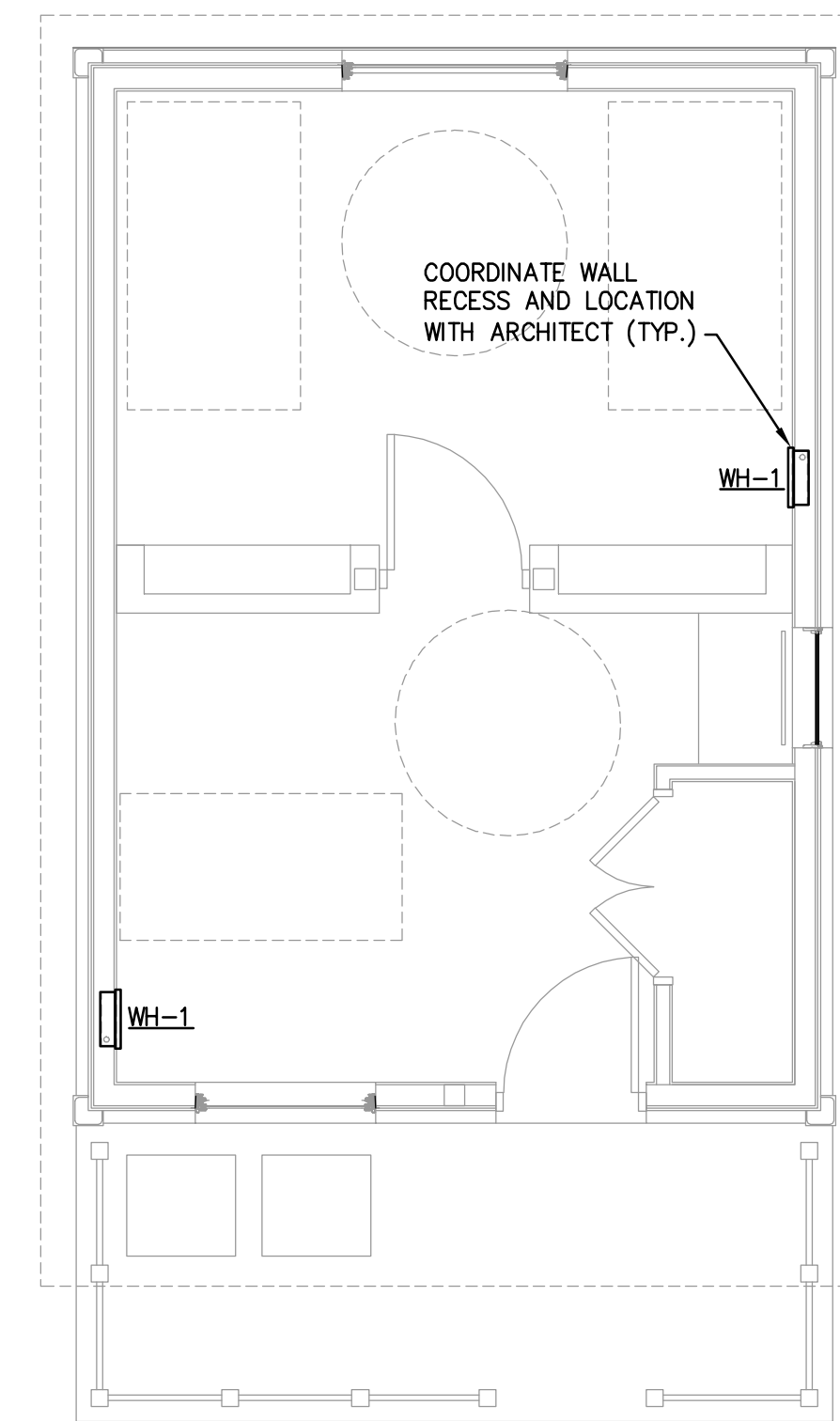
ANNE ARUNDEL COUNTY			
DEPARTMENT OF PUBLIC WORKS			
APPROVED _____	DATE _____	APPROVED _____	DATE _____
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED _____	DATE _____	APPROVED _____	DATE _____
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: N.T.S.		JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION	
DRAWN BY: M.J.F.		CHECKED BY: J.A.B.	
PROJECT NO.: P584501		SHEET NO. 49 OF 63	
CONTRACT NO.: P584500		M001	



VICINITY MAP
SCALE: 1" = 8,333'




TYPICAL CABIN FLOOR PLAN - MECHANICAL
SCALE: 1/4"=1'-0"

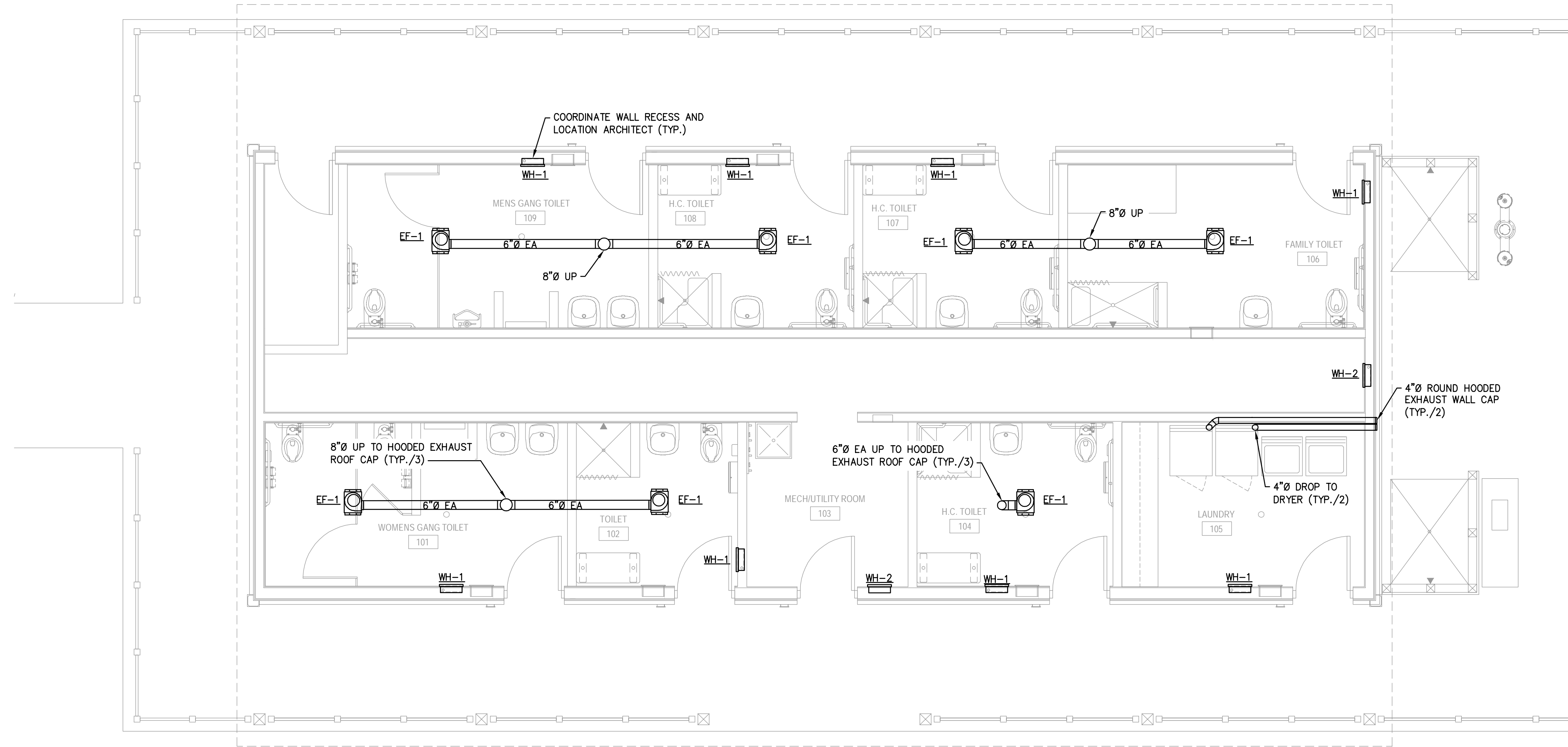


TYPICAL ADA CABIN FLOOR PLAN - MECHANICAL
SCALE: 1/4"=1'-0"

BID SET


 <p>WBCM Designing Infrastructure for Tomorrow®</p> <p>WHITNEY BAILEY COX & MAGNANI, LLC 300 East Joppa Road, Suite 200 Baltimore, MD 21286 410.512.4500 www.wbcm.com</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. License # 181795, Expiration Date: 08/06/24</p>	REVISIONS				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION CABIN FLOOR PLAN MECHANICAL M101	
	NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE		SCALE: AS NOTED
					CHIEF ENGINEER		PROJECT MANAGER			DRAWN BY: M.J.F.
					ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY			CHECKED BY: J.A.B.
								SHEET NO. 50 OF 63		
								PROJECT NO.: P584501		
								CONTRACT NO.: P584500		

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BATHHOUSE FLOOR PLAN - MECHANICAL
SCALE: 1/4"=1'-0"

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		NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE
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 # 18795, Expiration Date: 08/06/24				CHIEF ENGINEER _____ DATE _____	PROJECT MANAGER _____ DATE _____	SCALE: AS NOTED DRAWN BY: M.J.F. CHECKED BY: J.A.B. SHEET NO. 51 OF 63 PROJECT NO.: P584501 CONTRACT NO.: P584500	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION BATHHOUSE FLOOR PLAN MECHANICAL M102		

GENERAL NOTES

- THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED FOR THE PERFORMANCE OF THE WORK AND PAY ALL FEES IN CONNECTION THEREWITH.
- EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED ON THE SITE.
- NO REMOVED EXISTING PIPING SHALL BE REUSED UNLESS OTHERWISE INDICATED.
- THIS CONTRACTOR SHALL NEITHER INTERRUPT THE SERVICES OF THE EXISTING BUILDING NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT THE EXPRESSED PERMISSION OF THE OWNER. SUCH INTERRUPTIONS AND INTERFERENCES SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE TIME SUITED BY THE OWNER.
- UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PART DESIGNATED BY THE OWNER FOR SUCH PURPOSES.
- UNNECESSARY NOISE SHALL BE AVOIDED AT ALL TIMES AND NECESSARY NOISE SHALL BE REDUCED TO A MINIMUM.
- WHERE THE WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVAILABLE, THEY SHALL BE MADE AT NIGHT OR AT TIMES AS THIS WILL CAUSE THE LEAST INTERFERENCE WITH THE ESTABLISHED OPERATING ROUTINE OF THE BUILDING.
- THE CONTRACTOR SHALL ARRANGE ALL WORK CONTINUOUSLY, INCLUDING OVERTIME AS REQUIRED, TO ASSURE THAT SERVICES WILL BE SHUT DOWN AND CUT-INS ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTION TO EXISTING WORK.
- THE CONTRACTOR SHALL GIVE AMPLE WRITTEN NOTICE IN ADVANCE TO THE OWNER OF ANY REQUIRED SHUT DOWNS, AND REQUIRED DEMOLITION WORK TO BE PERFORMED ABOVE EXISTING.
- CONNECTIONS BETWEEN NEW AND EXISTING WORK: THE COST RESULTING FROM TEMPORARY SHUTDOWNS SHALL BE BORNE BY THIS CONTRACTOR.
- ALL VENT, HOT WATER CIRCULATION, HOT AND COLD WATER PIPING ARE AT CEILING OR IN HUNG CEILING: EXCEPT IN PIPE CHASES OR OTHERWISE NOTED.
- CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION OF ALL PIPE PENETRATIONS, PIPE ELEVATIONS, ETC.
- PROVIDE SHUT OFF VALVES AND UNIONS/FLANGES AT BASE OF ALL RISERS, MAINS, ALL BRANCHES AND ALL CONNECTIONS IN ORDER TO ISOLATE FOR MAINTENANCE PURPOSES.
- VALVES, AND OTHER EQUIPMENT AND ACCESSORIES THAT MAY REQUIRED ACCESS FOR MAINTENANCE OR OPERATION WHICH ARE LOCATED BEHIND WALLS AND PARTITIONS OR CONCEALED IN HUNG CEILINGS. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS AND PROVIDE ALL WORK AS REQUIRED TO CONFORM TO REQUIREMENTS.
- THIS CONTRACTOR SHALL PROVIDE ALL WORK AT THE CEILING OF THE FLOOR BELOW AS INDICATED ON THE DRAWINGS. COORDINATE EXACT ROUTING OF PIPING IN THE FIELD WITH EXISTING CONDITIONS AND WORK OF OTHER TRADES. THIS CONTRACTOR SHALL PROVIDE CAPPED VALVED OUTLETS FOR FUTURE CONNECTIONS WHENEVER CONNECTING INTO AN EXISTING CAPPED VALVED OUTLET. SIZE OF NEW CAPPED VALVED OUTLET SHALL MATCH EXISTING.
- PLUMBING CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWING FOR DEMOLITION SCOPE. THE PLUMBING CONTRACTOR SHALL CUT AND CAP ALL SERVICES TO AREAS THAT ARE TO BE REMOVED AS CLOSE AS POSSIBLE TO THE EXISTING MAINS. SANITARY BRANCHES THAT ARE TO BE REMOVED ARE TO BE PLUGGED AT MAINS. PLUMBING CONTRACTOR SHALL LEAVE NO DEAD LEGS LONGER THAN CODE REQUIREMENTS. CONTRACTOR SHALL VERIFY EXTENTS IN FIELD.
- THE CONTRACTOR SHALL COORDINATE PLUMBING WORK WITH ALL OTHER TRADES AND VERIFY DIMENSION AND CONDITIONS AT THE SITE PRIOR TO BEGINNING WORK. NO ADDITIONAL COSTS WILL BE ACCEPTED IF ATTRIBUTED TO FAILURE TO COORDINATE OR VERIFY.
- ALL PLUMBING LINES SHOWN ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EXACT LOCATIONS. THE CONTRACTOR SHALL INSTALL PIPING SYSTEM TO MINIMIZE LENGTH OF RUNS AND AVOID INTERFERENCES.
- ALL PIPING WITHIN SLAB SHALL BE INSTALLED TO CLEAR FOOTINGS AND SHALL NOT BE INSTALLED WITHIN OR BELOW THE TRIANGULAR BEARING PLANE OF ALL FOOTINGS.
- THE CONTRACTOR SHALL SEAL SLEEVES INSTALLED IN FIRE-RATED WALLS, CEILINGS AND FLOORS WITH FIRE-PROOF MATERIAL EQUAL TO THE RATING OF THE RESPECTIVE WALLS, CEILINGS AND FLOORS.
- INSTALL PIPING AS STRAIGHT AND DIRECT AS POSSIBLE FORMING RIGHT ANGLE OR PARALLEL LINES WITH BUILDING WALLS, NEATLY SPACED, RISERS PLUMB AND TRUE, AND AVOID INTERFERENCE WITH OTHER CONSTRUCTION.
- CLEANOUTS SHALL BE PROVIDED ON ALL PLUMBING DRAINAGE PIPING AT CHANGES OF DIRECTION GREATER THAN 45° AND EVERY 50 FEET FOR PIPING UP TO 4" DIAMETER, AND 100 FEET FOR PIPING 5" AND LARGER.
- ALL PIPING SHALL BE IDENTIFIED AND COLORED IN FULL COMPLIANCE WITH ASME A13.1.

BUILDING DEPARTMENT NOTES

- ALL PLUMBING WORK SHALL MEET THE REQUIREMENTS OF THE 2018 INTERNATIONAL PLUMBING CODE.
- PROTECTION OF PIPING AS OUTLINED IN SECTION PC 305 SHALL BE PROVIDED AS REQUIRED.
 - ALL PIPING AND MATERIALS SHALL BE AS DIRECTED IN SECTIONS PC 303 & PC 702.
 - PIPING JOINTS AND CONNECTIONS SHALL BE AS APPROVED IN SECTIONS PC 605 & PC 705.
 - CONSTRUCTION, QUANTITIES, DEVICES, FIXTURES, FAUCETS, VALVES AND FACILITIES FOR THE DISABLED SHALL BE AS OUTLINED IN CHAPTER 4.
 - TRAPS SHALL BE AS PER SECTION PC 1002.
 - CONSTRUCTION AND SPACING OF HANGERS AND SUPPORTS SHALL BE AS DIRECTED IN SECTION PC 308.
 - WATER SUPPLY SYSTEM, VALVES, TESTS SHALL BE AS DIRECTED IN CHAPTER 6. VALVES SHALL BE PROVIDED AT RISERS AND ELSEWHERE AS PER SECTION PC 606.
 - SANITARY DRAINAGE PIPING, SIZING, GRADING AND OFFSETS SHALL BE AS OUTLINED IN CHAPTER 7.
 - VENT SIZING, GRADING, CONNECTIONS, LOCATIONS AND OFFSETS SHALL BE AS DIRECTED IN CHAPTER 9.
 - STORM DRAINAGE PIPING AND SIZING SHALL BE IN ACCORDANCE WITH CHAPTER 11. STORM WATER MANAGEMENT UTILIZING CONTROLLED FLOW DRAINAGE SHALL BE AS PER CHAPTER 11.
 - SPECIAL AND MISCELLANEOUS PIPING SHALL BE AS DIRECTED IN CHAPTER 8.
 - INDIRECT WASTE PIPING SHALL BE AS DIRECTED IN CHAPTER 8.
 - GAS PIPING INSTALLATION, MATERIAL AND SIZES SHALL ADHERE TO INTERNATIONAL FUEL GAS CODE, SECTION FGC 404.
 - ALL PLUMBING FIXTURES SHALL BE AS DIRECTED IN CHAPTER 4.
 - ALL PLUMBING DRAINAGE PIPING, INCLUDING ANY EQUIPMENT CONNECTED THERETO SHALL BE SEISMICALLY RESTRAINED AS PER BC 1621 AND ASCE 7-2002 SECTION 9.6.
 - CLEAN OUTS FOR SANITARY AND STORM DRAINAGE SHALL BE AS PER SECTION PC 708.
 - TESTING AND PURGING OF GAS PIPING PRIOR TO OPERATIONS SHALL CONFORM TO FGC 406.
 - WATER HEATER SHALL BE TESTED IN ACCORDANCE WITH ANSI 21.10.1 AND ANSI 21.10.3.
 - PIPING JOINTS FOR GAS DISTRIBUTION PIPING SHALL BE DONE PER AUTHORITY'S SPECIFICATION. ALL WELDED GAS PIPES SHALL BE RADIOGRAPHED. THE RADIOGRAPHY AND ACCEPTANCE SHALL ADHERE TO FGC 107.
 - ALL PLUMBING WORK SHALL BE DONE BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED MASTER PLUMBER.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	HW	CW	SOIL	WASTE	VENT	REMARKS
WC-1	WATER CLOSET	-	1"	4"	-	2"	NOTES 1, 2
UR-1	URINAL	-	1"	2"	-	2"	NOTES 1, 2
L-1	LAVATORY	1/2"	1/2"	-	1-1/2"	1-1/2"	NOTES 1, 2
L-2	LAVATORY	1/2"	1/2"	-	1-1/2"	1-1/2"	NOTES 1, 2
W-1	SHOWER	1/2"	1/2"	-	2"	2"	NOTES 1, 2
W-1	SHOWER	1/2"	1/2"	-	2"	2"	NOTES 1, 2
SS-1	SERVICE SINK	3/4"	3/4"	-	3"	2"	NOTES 1, 2
SS-2	SERVICE SINK	3/4"	3/4"	-	3"	2"	NOTES 1, 2
FD-1	FLOOR DRAIN	-	-	-	3"	-	NOTES 1, 2, 3
W-1	WASHER	1/2"	1/2"	-	2"	2"	NOTES 1, 2
DF-1	DRINKING FOUNTAIN	-	1/2"	-	1-1/2"	-	NOTES 1, 2

- NOTES:
 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE MOUNTING HEIGHTS, CLEARANCES, ETC.
 2. COORDINATE ALL PLUMBING FIXTURES, CARRIERS, AND FAUCET TYPE, STYLE, FINISH, TRIM ETC. WITH ARCHITECTURAL DRAWINGS.
 3. PROVIDE PROVENT SYSTEMS PROSET TRAP GUARD OR APPROVED EQUAL.

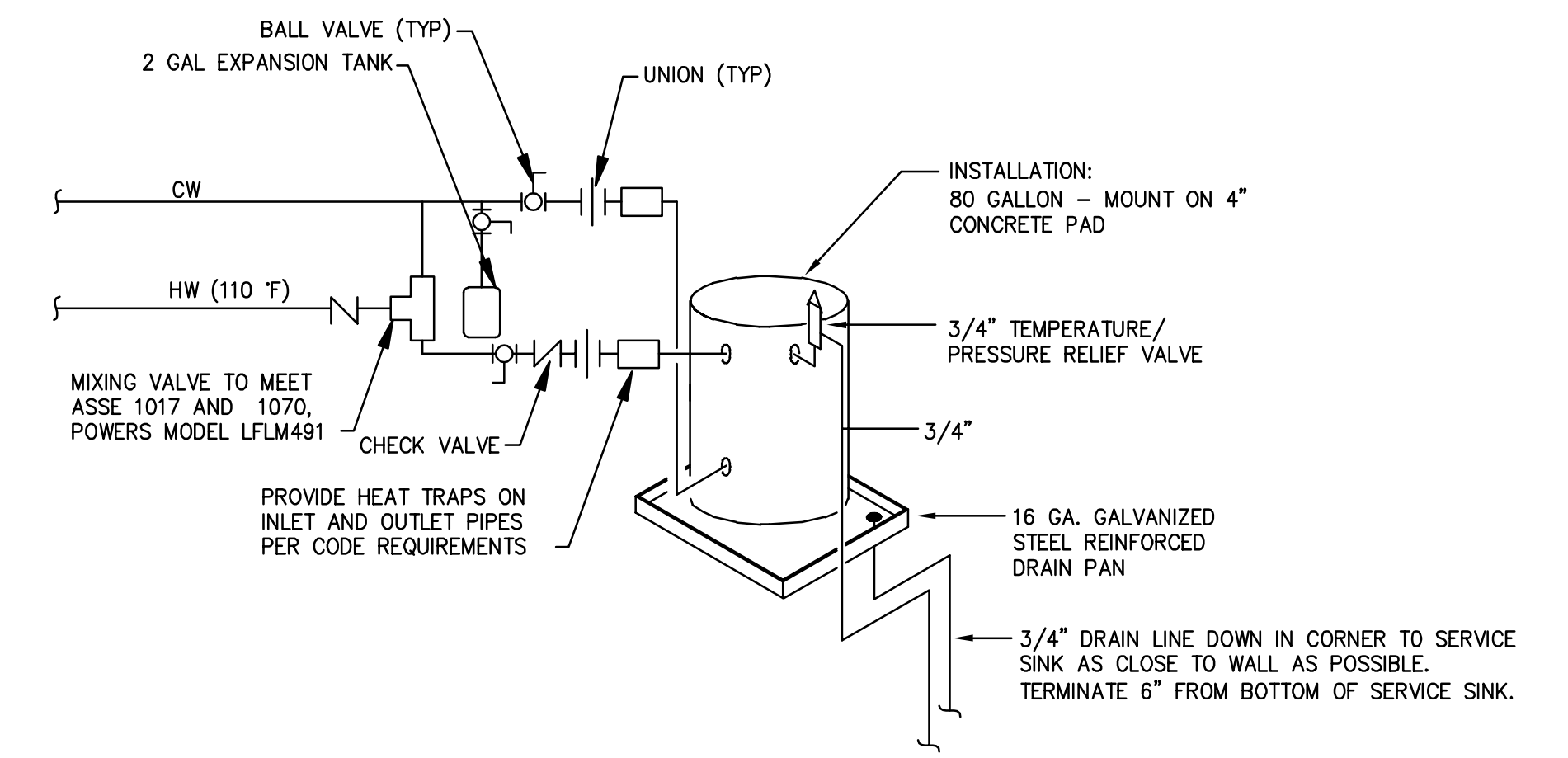
WATER HAMMER ARRESTOR SCHEDULE

SIZE	WSFU	JR SMITH MODEL (OR APPROVED EQUAL)	SIZE	WSFU	JR SMITH MODEL (OR APPROVED EQUAL)
A	1-11	5005	D	61-113	5030
B	12-32	5010	E	114-154	5040
C	33-60	5020	F	155-330	5050

SYMBOLS AND ABBREVIATIONS

NOTES: THE KEY OF SYMBOLS AND ABBREVIATIONS IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF WORK.

—SAN—	SANITARY	AD	AREA DRAIN
----	UNDERGROUND DRAINAGE/PIPING BELOW	AFF	ABOVE FINISHED FLOOR
----	ABOVE GROUND DRAINAGE PIPING	BLDG	BUILDING
----	VENT PIPING	BOP	BOTTOM OF PIPE
----	COLD WATER PIPING	BFP	BACKFLOW PREVENTER
----	HOT WATER PIPING	BC	BELOW GRADE
----	HOT WATER RETURN	CO	CLEANOUT
—G—	GAS PIPING	COOP	CLEANOUT DECK PLATE
—W—	WASTE	CM	COFFEE MAKER
— —	VENT THROUGH ROOF	CV	CHECK VALVE
— —	CLEANOUT	CVO	CAPPED AND VALVED OUTLET
— —	CLEANOUT DECK PLATE	CW	COLD WATER
— —	HOUSE TRAP	CLG	CEILING
— —	SANITARY/WATER RISER NUMBER	CONN	CONNECT
— —	WALL SLEEVE	CONT	CONTINUATION
— —	FLOOR DRAIN	DIA	DIAMETER
— —	GATE VALVE	DN	DOWN (PENETRATES FLOOR SLAB)
— —	SOLENOID VALVE	DR	DRAIN
— —	STRAINER	DWG	DRAWING
— —	MASTER MIXING VALVE	EXIST	EXISTING
— —	BALL VALVE	EWC	ELECTRIC WATER COOLER
— —	CHECK VALVE	EWH	ELECTRIC WATER HEATER
— —	TEMPERATURE & PRESSURE RELIEF VALVE	FD	FLOOR DRAIN
— —	SHOCK ABSORBER	FS	FLOOR SINK
— —	THERMOMETER	FT	FEET
— —	PRESSURE GAUGE	GC	GENERAL CONTRACTOR
— —	OS&Y VALVE WITH TAMPER SWITCH	GAL	GALLONS
— —	TRAP	GPM	GALLONS PER MINUTE
— —	HOSE BIBB/WALL HYDRANT	HB	HOSE BIBB
— —	POINT OF DISCONNECTION	H&CW	HOT & COLD WATER
— —	POINT OF CONNECTION TO EXISTING	HW	HOT WATER
		HWR	HOT WATER RETURN
		IE	INVERT ELEVATION
		IW	INDIRECT WASTE
		LAV	LAVATORY
		MS	MOP SINK
		NIC	NOT IN THIS CONTRACT
		NFWH	NON-FREEZE WALL HYDRANT
		NTS	NOT TO SCALE
		PC	PLUMBING CONTRACTOR
		PO	PLUGGED OUTLET
		PRV	PRESSURE REDUCING VALVE
		PSI	POUNDS PER SQUARE INCH (GAUGE)
		SA	SHOCK ABSORBER
		SAN	SANITARY
		SK	SINK
		SQ FT	SQUARE FOOT
		SS	SERVICE SINK
		ST	STORM
		TYP	TYPICAL
		UN	UNLESS OTHERWISE NOTED
		UR	URINAL
		V	VENT
		VB	VACUUM BREAKER
		VF	VERIFY IN FIELD
		WCO	WALL CLEANOUT
		W	WASTE
		WC	WATER CLOSET



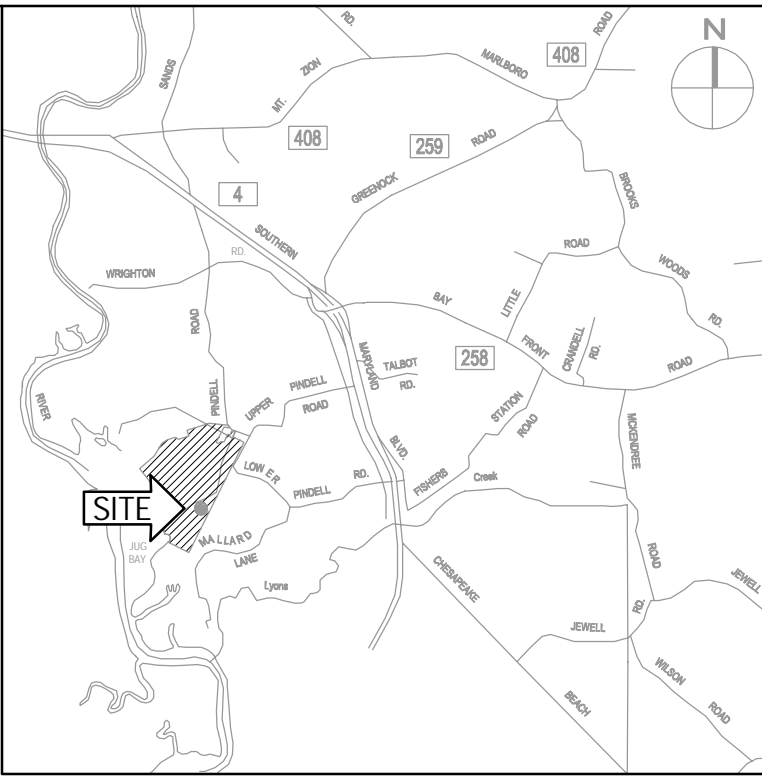
ELECTRIC WATER HEATER SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL NO.	CAPACITY	INPUT (KW)	RECOVERY (GPH)	ELEC (V/PH/H Z)	REMARKS
WH-1	MECH/UTILITY	AO SMITH	DVE-80-36	80 GAL	36	148 GPH @ 100°F	240/1/60	1

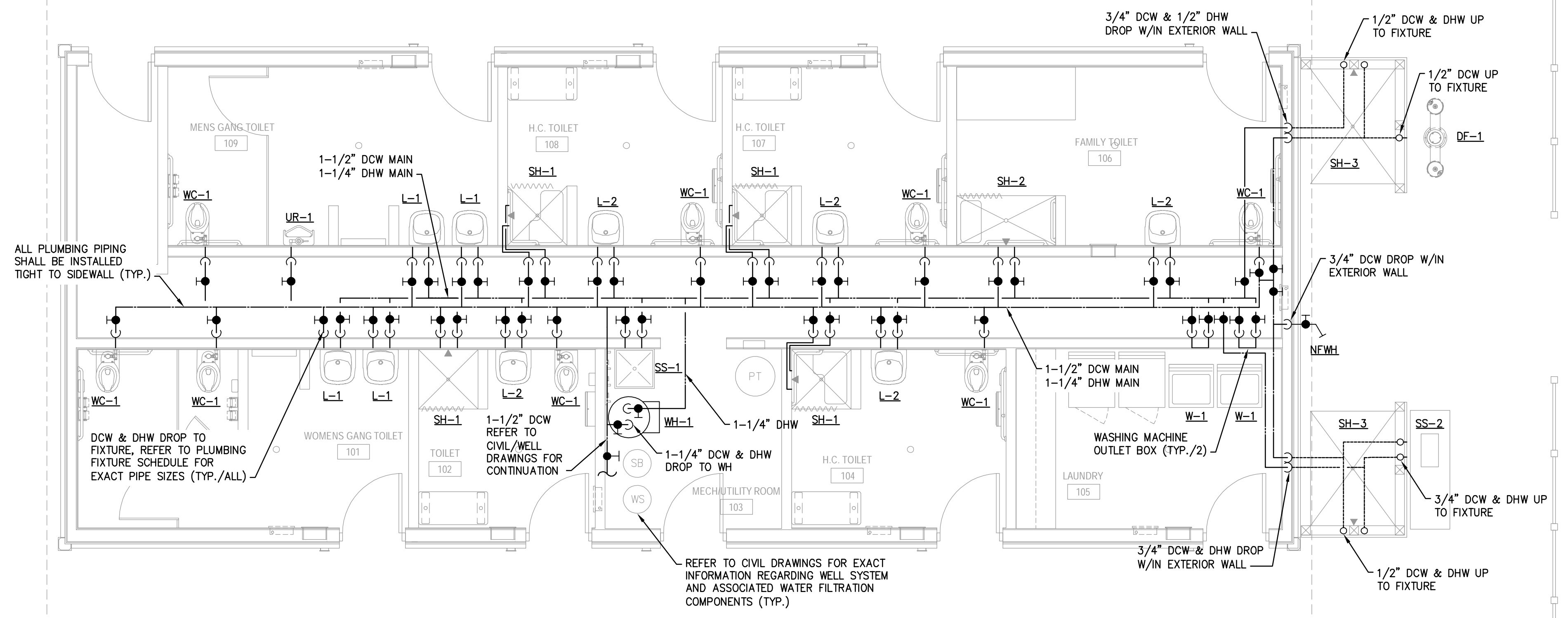
1. PROVIDE DISCONNECT SWITCH

	REVISIONS				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				
	NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE: N.T.S.
					CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: M.J.F.
					APPROVED	DATE	APPROVED	DATE	CHECKED BY: J.A.B.
					ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY		SHEET NO. 52 OF 63
									PROJECT NO.: P584501
									CONTRACT NO.: P584500

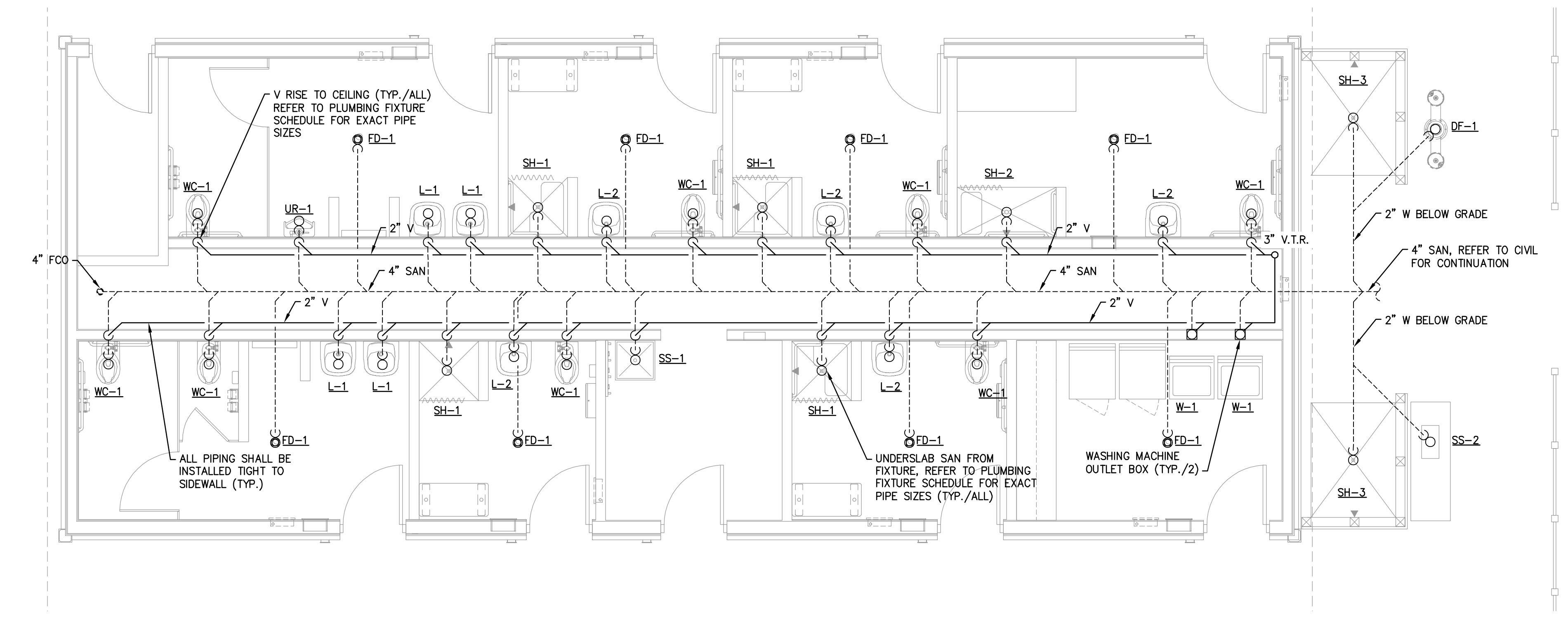
JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
P001



VICINITY MAP
SCALE: 1" = 8,333'



BATHHOUSE FLOOR PLAN - DOMESTIC WATER
SCALE: 1/4" = 1'-0"



BATHHOUSE FLOOR PLAN - SANITARY & VENT
SCALE: 1/4" = 1'-0"

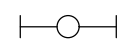
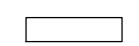


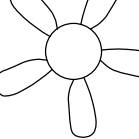




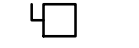

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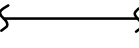


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APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE:	AS NOTED	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION	
DRAWN BY:	M.J.F.	BATHHOUSE FLOOR PLAN PLUMBING	
CHECKED BY:	J.A.B.	P101	
SHEET NO. 53	OF 63		
PROJECT NO.:	PS84501		
CONTRACT NO.:	PS84500		

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LIGHTING SYMBOLS LIST:	POWER SYMBOLS LIST:
 INDUSTRIAL CHAIN HUNG FIXTURE  NORMAL SURFACE FIXTURE  NORMAL RECESSED DOWN LIGHT  BOLLARD  CEILING FAN	 DUPLEX RECEPTACLE  DUPLEX RECEPTACLE W/GROUND FAULT MTD. 6" ABOVE COUNTER  SPECIAL OUTLET  JUNCTION BOX  DISCONNECT SWITCH  ELECTRICAL PANEL


CONTROLS SYMBOLS LIST:	LINES SYMBOLS LIST:
 PHOTOCELL  SWITCH  SWITCH - OCCUPANCY SENSOR	 CIRCUIT  HOMERUN  CIRCUIT CONTINUATION  EXISTING LINE  NEW WORK LINE  UNSWITCHED CIRCUIT

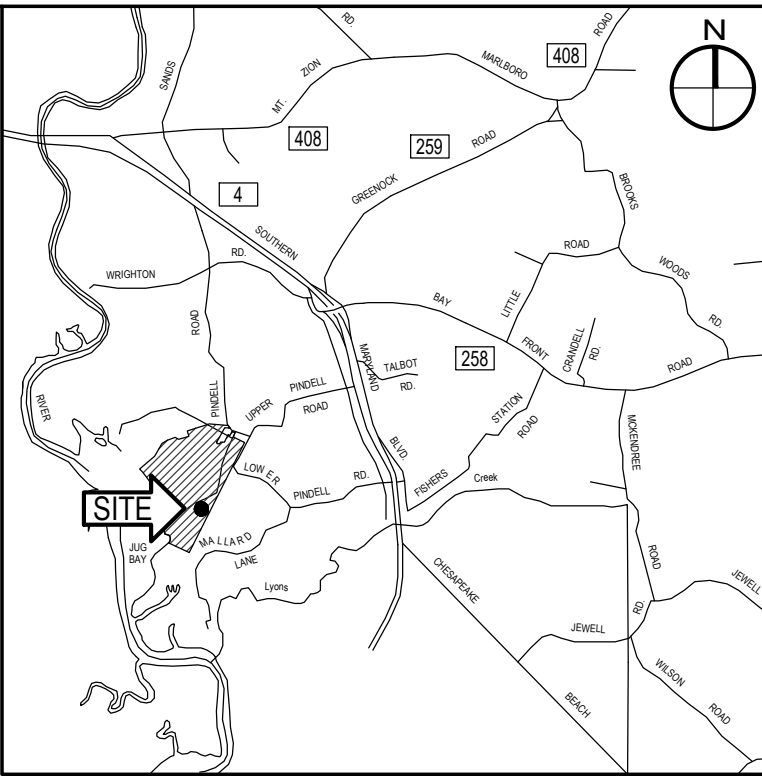
ABBREVIATION LIST:			
A	AMPERES	H	HOT WIRE
AC	AC PANELBOARD	HID	HIGH INTENSITY DISCHARGE
ADMIN	ADMINISTRATION	HPF	HIGH POWER FACTOR
AFB	ABOVE FINISHED FLOOR	HPS	HIGH PRESSURE SODIUM
AFG	ABOVE FINISHED GRADE	HTR	HEATER
AHU	AIR HANDLING UNIT	HZ	HERTZ
ANN	ANNUNCIATOR	JB	JUNCTION BOX
ATS	AUTOMATIC TRANSFER SWITCH	KVA	KILO VOLT-AMPERES
AWG	AMERICAN WIRE GAUGE	KW	KILOWATTS
BKR	BREAKER	LA	LIGHTING ARRESTOR
BLDG	BUILDING	LC	LIGHTING CONTACTOR
C	CONDUIT	LP	LIGHTING PANEL
CB	CIRCUIT BREAKER	LTG	LIGHTING
CIRC	CIRCULATING	MDP	MAIN DISTRIBUTION PANEL
CKT	CIRCUIT	MECH	MECHANICAL
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM
COMM	COMMUNICATIONS	MISC	MISCELLANEOUS
CORR	CORRIDOR	N	NEUTRAL
CT	CURRENT TRANSFORMER	N.T.S.	NOT TO SCALE
CPT	CONTROL POWER TRANSFORMER	P	POLE
CJ	COPPER	PB	PUSHBUTTON
DCU	DIGITAL CONTROL UNIT	PH	PHASE
DG	DIESEL GENERATOR	PHC	PHOTOELECTRIC CELL
DISC	DISCONNECT	PNL	PANEL
DIST	DISTRIBUTION	PP	POWER PANEL
DT	DRY TYPE TRANSFORMER	PT	POTENTIAL TRANSFORMER
DWG	DRAWING	PWR	POWER
EBB	ELECTRIC BASEBOARD HEATER	REOPT	RECEPTACLE
EC	ELECTRICAL CONTRACTOR	RM	ROOM
EDH	ELECTRIC DUCT HEATER	TELE	TELEPHONE
EDT	EMERGENCY DRY TYPE TRANSFORMER	TYP	TYPICAL
EF	EXHAUST FAN	UPS	UNINTERRUPTABLE POWER SUPPLY
ELEC	ELECTRICAL	UNO	UNLESS NOTED OTHERWISE
EMERG	EMERGENCY	V	VOLTS
EQUIP	EQUIPMENT	VAV	VARIABLE AIR VOLUME
EUH	ELECTRIC UNIT HEATER	VEST	VESTIBULE
EW	ELECTRIC WATER COOLER	W	WATT
EWH	ELECTRIC WATER HEATER	WP	WEATHERPROOF
F	FUSE	WTR	WATER
FACP	FIRE ALARM CONTROL PANEL		
FCU	FAN COIL UNIT		
GND	GROUND		
GC	GENERAL CONTRACTOR		
GEN	GENERATOR		
GFI	GROUND FAULT INTERRUPTER		

- GENERAL NOTES:**
- ALL NEW CIRCUITS INDICATED SHALL BE (2)#12 + (1)#120-3/4" C UNLESS INDICATED OTHERWISE. NEW CIRCUITS SHALL NOT BE LESS THAN #12 AWG FOR POWER OR #14 AWG FOR CONTROLS.
 - CONTROL SWITCHES THAT CONTROL LIGHTING FIXTURES THAT ARE NOT IN THE SAME AREA OR ROOM AS THE SWITCHES MUST BE PROVIDED WITH A NAMEPLATE INDICATING WHAT EACH SWITCH CONTROLS. THIS SHALL ALSO BE REQUIRED FOR SWITCHES THAT CONTROL FANS, AIR HANDLING UNITS OR MISCELLANEOUS MECHANICAL EQUIPMENT REGARDLESS OF THE SWITCH LOCATION.
 - GENERALLY ALL RACEWAYS AND OUTLET BOXES SHALL BE INSTALLED CONCEALED IN ALL FINISHED AREAS. IN UNFINISHED AREAS IN THE EXISTING PORTION OF THE BUILDING USE EXPOSED CONDUIT AND OUTLET BOXES. IN THE NEW PORTION OF THE BUILDING USE CONCEALED CONDUIT AND OUTLET BOXES, EXCEPT FOR RUNS TO EXPOSED OR SURFACE MOUNTED EQUIPMENT OR IN CASES WHERE CONCEALED RUNS ARE NOT PRACTICAL. SURFACE METAL RACEWAYS SHALL BE PERMITTED ONLY IN PORTIONS OF THE EXISTING BUILDING WHERE SPECIFICALLY APPROVED BY THE ENGINEER. ALL OUTLET BOXES SHALL BE OF THE TYPE SUITABLE BY THE MANUFACTURER OF THE RACEWAY SYSTEM.
 - FLEXIBLE CONDUIT MAY BE UTILIZED FOR SHORT CONNECTIONS TO MOTORS 24" MAXIMUM LENGTH, OR TO RECESSED LIGHT FIXTURES 72" MAXIMUM LENGTH. ADDITIONALLY FLEXIBLE CONDUIT MAY BE USED WHERE SPECIFICALLY NOTED ON THE DRAWINGS IN LENGTHS AS INDICATED OR REQUIRED. WHERE FLEXIBLE CONDUIT IS USED IN DAMP OR WET LOCATIONS, IT SHALL BE OF THE LIQUID TIGHT TYPE WITH PVC JACKET.
 - ALL CUTTING, PATCHING, REFINISHING AND PAINTING REQUIRED FOR THE INSTALLATION OF ALL ELECTRICAL WORK UNDER THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - PROVIDE A FISH LINE IN ALL EMPTY CONDUITS INCLUDING FLEXIBLE CONDUIT.
 - GENERALLY ALL CIRCUIT BREAKER POLES IN PANELBOARDS THAT ARE NOT USED SHALL BE EQUIPPED WITH CLOSURE COVERS, IF KNOCKOUT PIECE HAS BEEN REMOVED.
 - THE CONTRACTOR SHALL ENSURE THAT FEEDER AND BRANCH CIRCUIT WIRING LENGTHS ARE KEPT AS SHORT AS PRACTICAL. THE CONTRACTOR SHALL REVIEW WIRING METHODS WITH THE ENGINEER PRIOR TO EXECUTION OF THE WORK.

\\SERVERS\Network\WBCM\22029 Jrg Bay Environmental Center Infrastructure\Elec\Draw\E001_General Notes_22029.dwg Nov 06, 2023 - 6:18pm Plot By: Admin

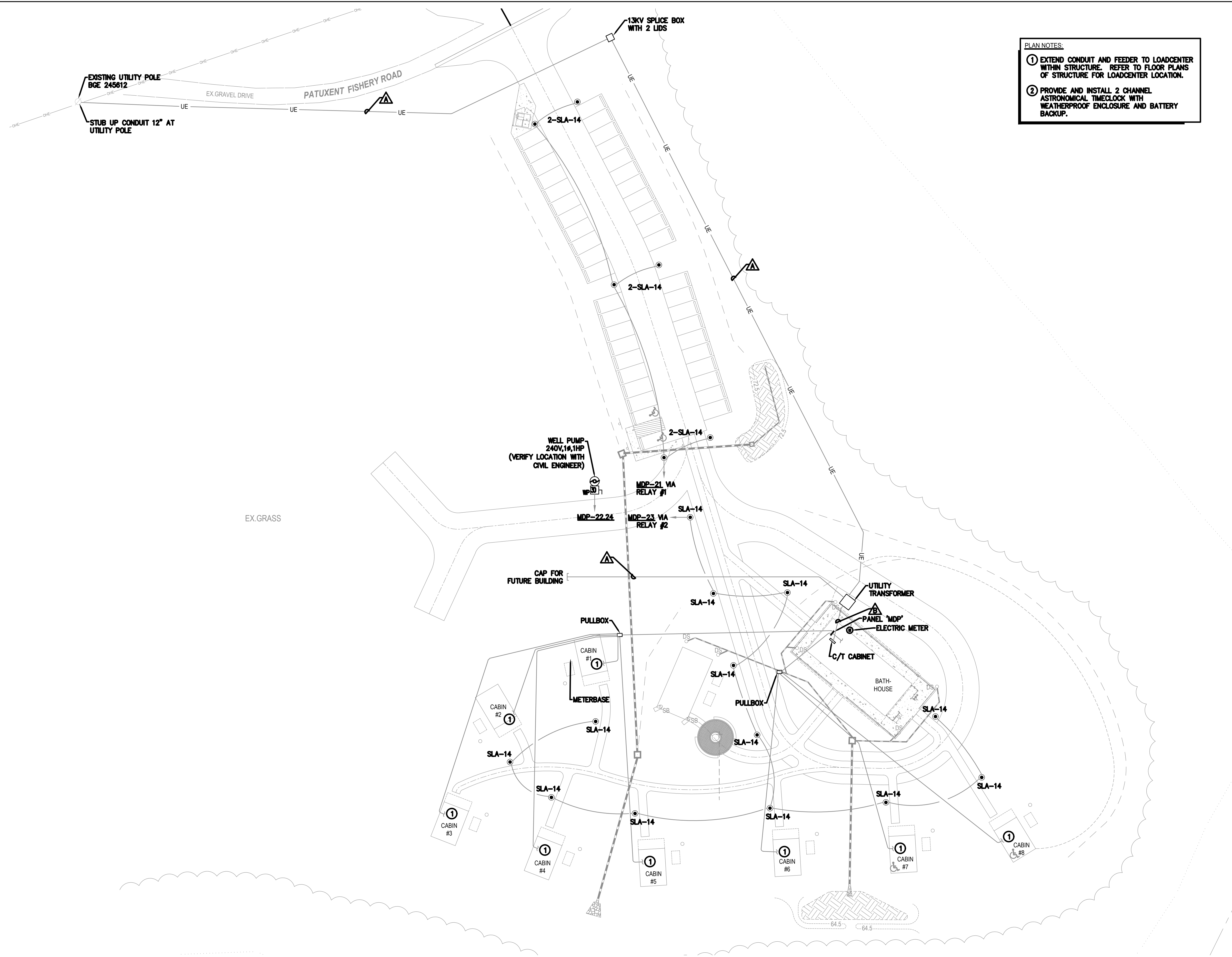
BID SET

 <p>WHITNEY BAILEY COX & MAGNANI, LLC 300 East Joppa Road, Suite 200 Baltimore, MD 21286 410.512.4500 www.wbcm.com</p> <p>WBCM Designing Infrastructure for Tomorrow®</p> <p><small>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 # 18756, Expiration Date: 08/09/24</small></p>	REVISIONS				ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS					
	NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE	SCALE: N.T.S.	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS E001
					CHIEF ENGINEER		PROJECT MANAGER		DRAWN BY: M.J.F.	
					APPROVED		APPROVED		CHECKED BY: J.A.B.	
				ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY		SHEET NO. 54 OF 63		
								PROJECT NO.: P584501		
								CONTRACT NO.: P584500		

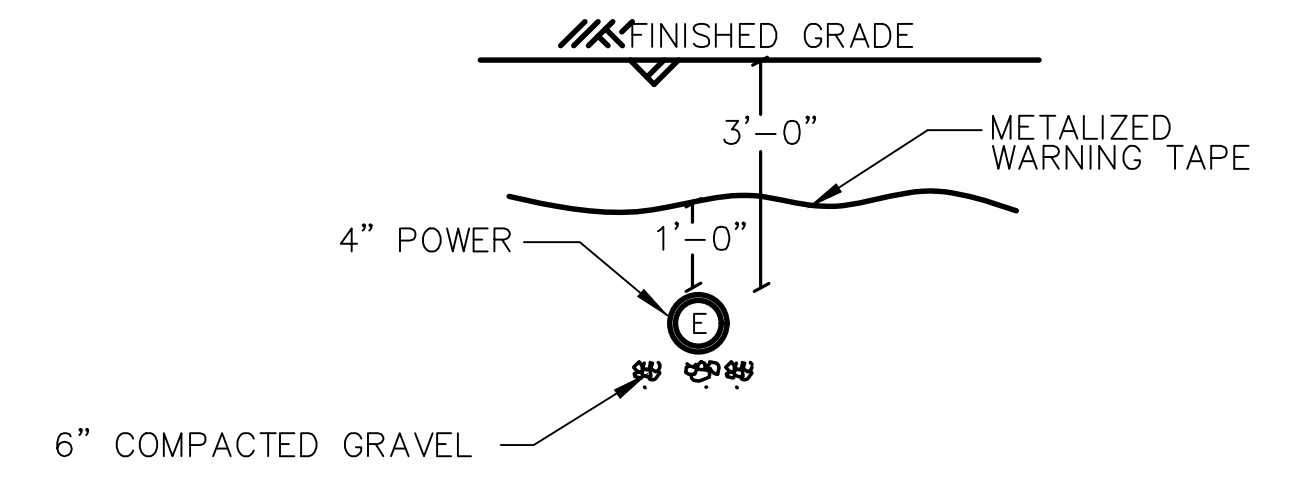


VICINITY MAP
SCALE: 1" = 8,333'

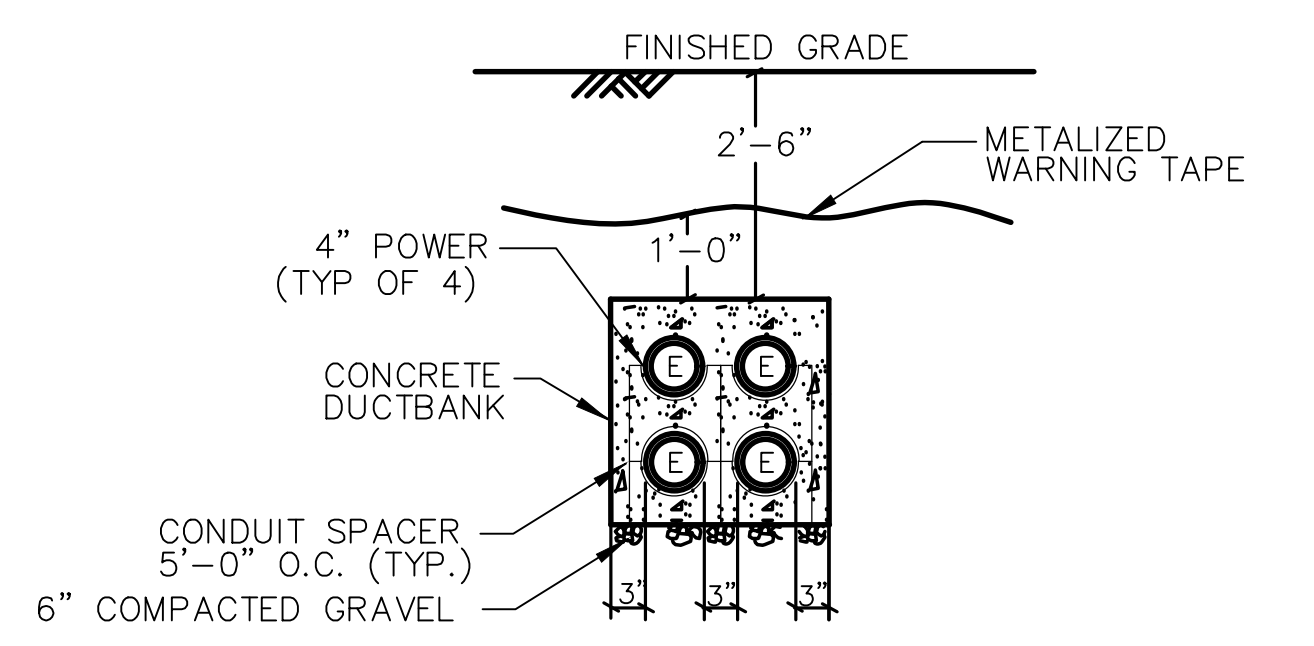
- PLAN NOTES:**
- EXTEND CONDUIT AND FEEDER TO LOADCENTER WITHIN STRUCTURE. REFER TO FLOOR PLANS OF STRUCTURE FOR LOADCENTER LOCATION.
 - PROVIDE AND INSTALL 2 CHANNEL ASTRONOMICAL TIMECLOCK WITH WEATHERPROOF ENCLOSURE AND BATTERY BACKUP.



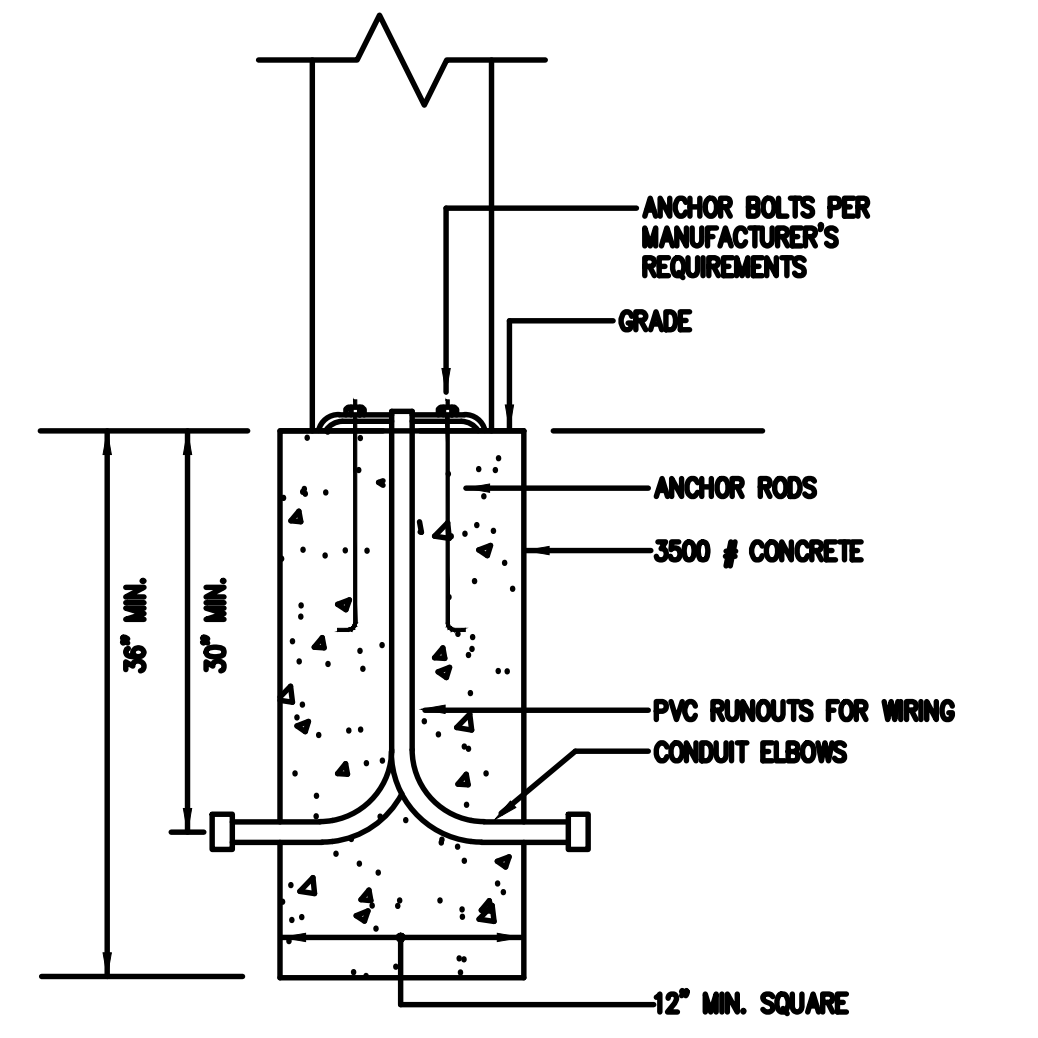
SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"



CROSS SECTION DETAIL 'A'
SCALE: N.T.S.

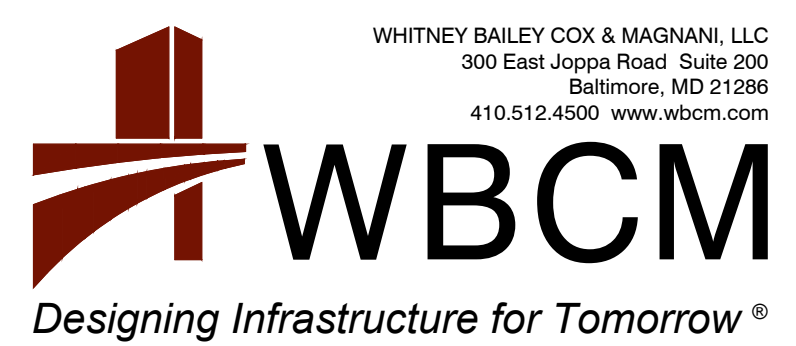


CROSS SECTION DETAIL 'B'
SCALE: N.T.S.



BOLLARD BASE DETAIL
NOT TO SCALE

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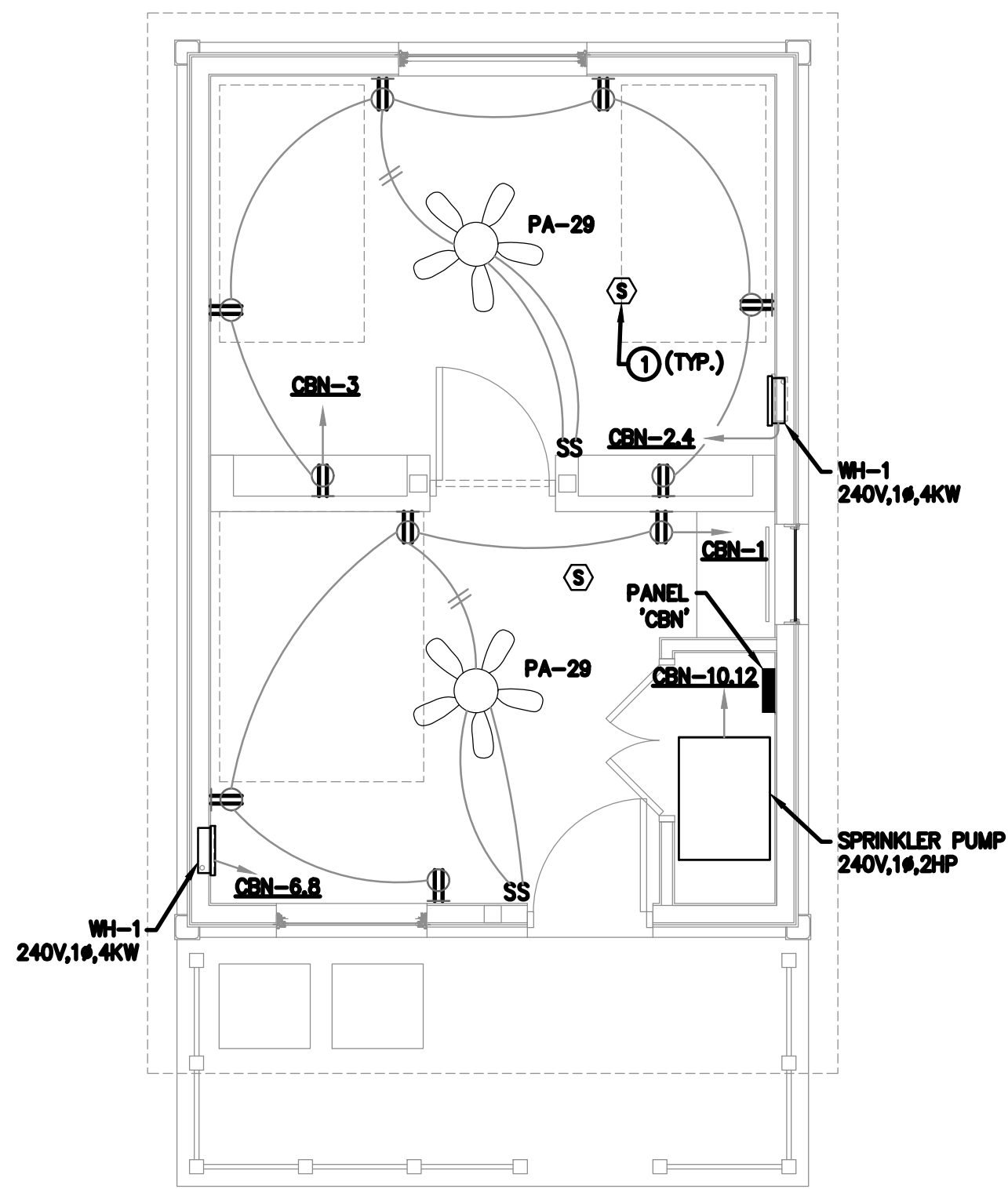
REVISIONS			
NO.	DESCRIPTION	BY	DATE

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	
SCALE:	AS NOTED	DRAWN BY:	M.J.F.
CHECKED BY:	J.A.B.	SHEET NO.:	55 OF 63
PROJECT NO.:	P584501	CONTRACT NO.:	P584500
JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION			SITE PLAN - ELECTRICAL
			E101

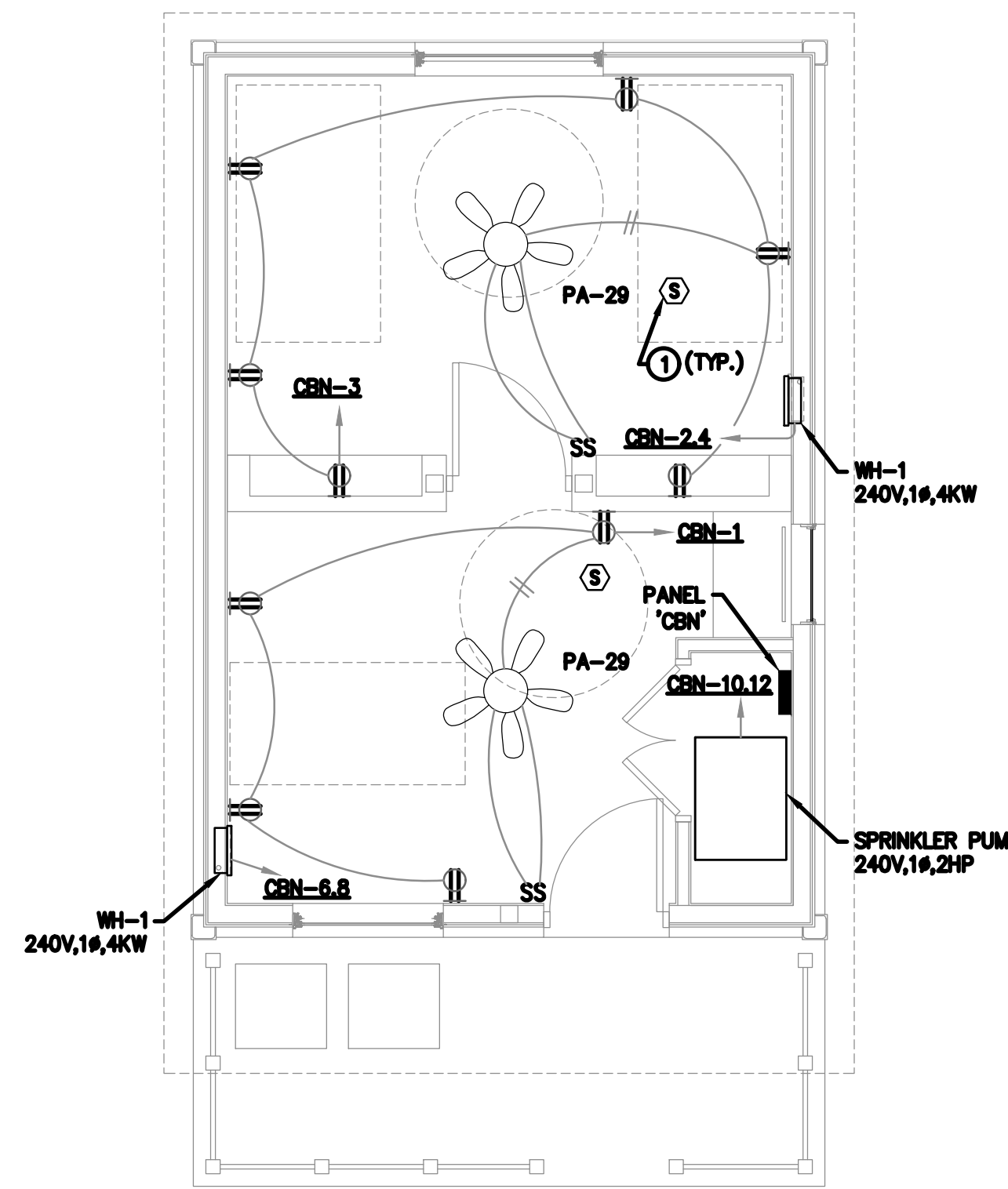
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\\MESSENGER\ES_Network\WBCM\22029 - Jug Bay Environmental Center Infrastructure\Elec\Draw\102_CabinPlan_22029.dwg Nov 06, 2023 - 6:18pm Plot By: Admin

PLAN NOTES:
 ① INTER CONNECT SMOKE DETECTORS WITHIN CABIN SUCH THAT WHEN ONE DETECTOR IS ACTIVATED, ALL DETECTORS ARE ACTIVATED. CONNECT DETECTORS TO CIRCUIT CBN-5.

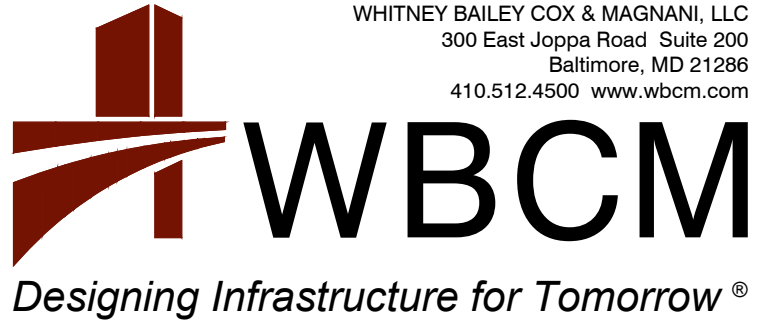


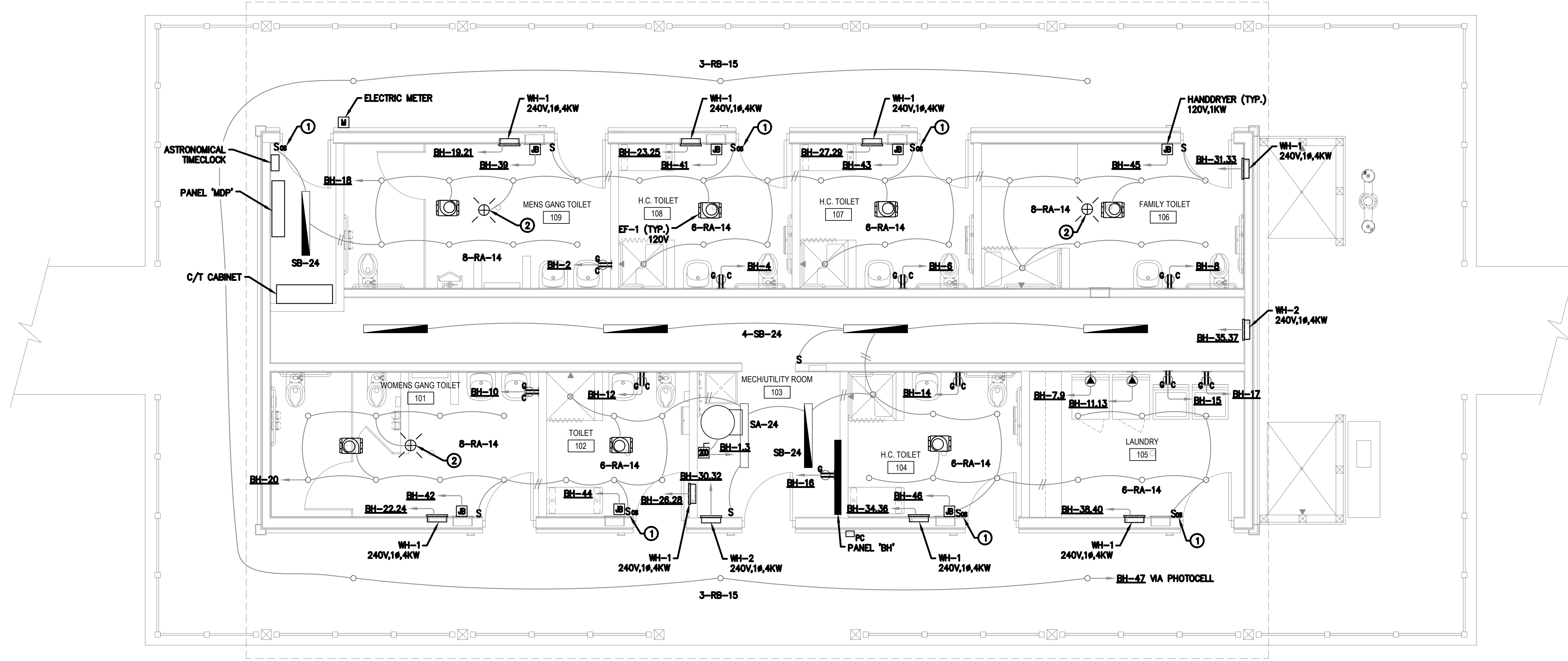
CABIN FLOOR PLAN - ELECTRICAL
 SCALE: 1/4"=1'-0"



ADA CABIN FLOOR PLAN - ELECTRICAL
 SCALE: 1/4"=1'-0"

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		NO.	DESCRIPTION	BY	DATE																				
<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. License # 18756, Expiration Date: 08/05/24</p>		<p>APPROVED _____ DATE _____</p> <p>CHIEF ENGINEER</p>	<p>APPROVED _____ DATE _____</p> <p>PROJECT MANAGER</p>	<p>SCALE: AS NOTED</p> <p>DRAWN BY: M.J.F.</p>	<p>JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION</p>																				
	<p>APPROVED _____ DATE _____</p> <p>ASSISTANT CHIEF ENGINEER</p>	<p>APPROVED _____ DATE _____</p> <p>CHIEF, RIGHT-OF-WAY</p>	<p>SHEET NO. 56 OF 63</p> <p>PROJECT NO.: P584501</p> <p>CONTRACT NO.: P584500</p>	<p>CABIN FLOOR PLAN - ELECTRICAL</p> <p style="text-align: center; font-size: 24pt;">E102</p>																					



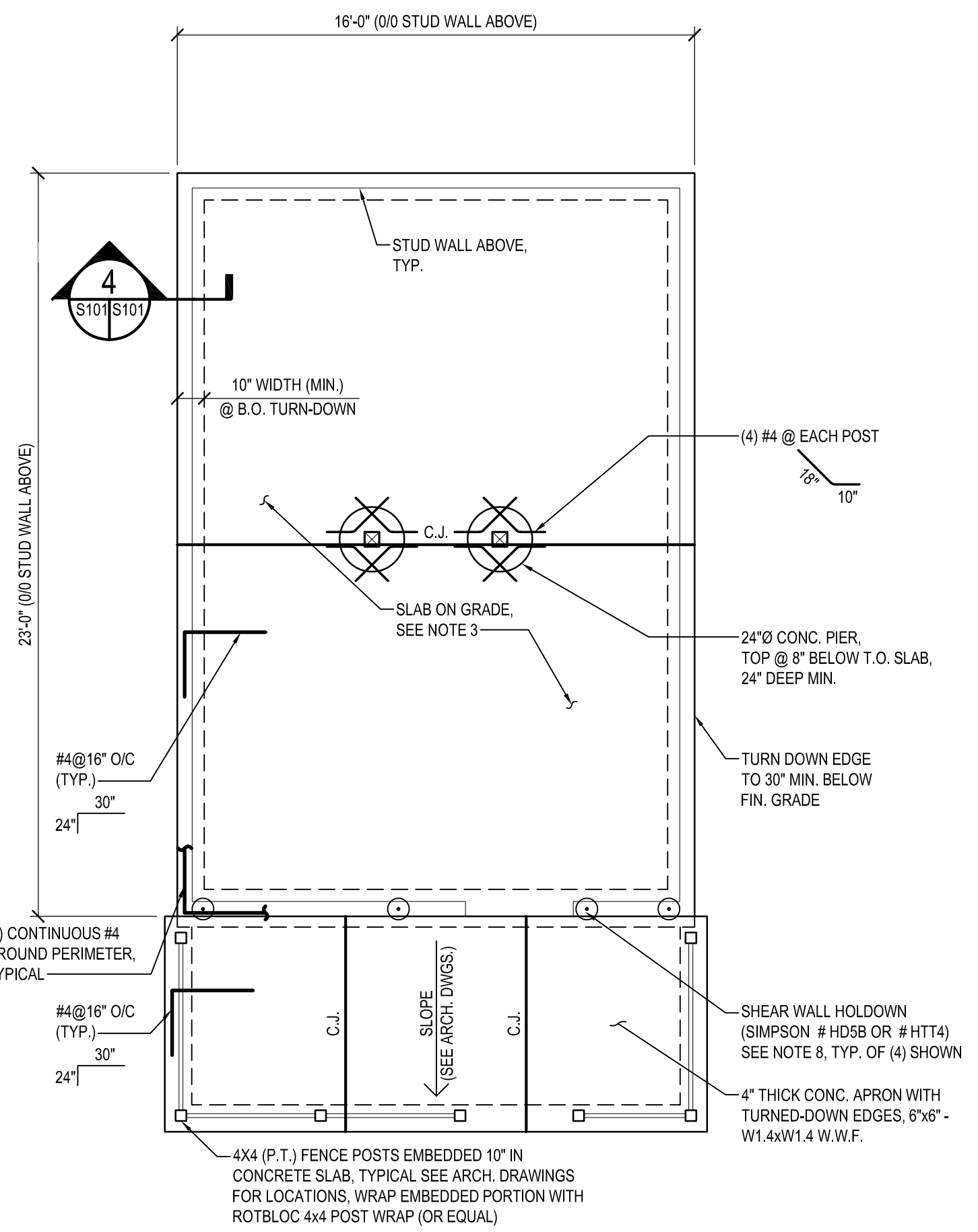
PLAN NOTES:

- ① PROVIDE AND INSTALL DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR FOR CONTROL OF FIXTURES IN THE ROOM. SENSOR TO BE WATTSTOPPER DSW-301-W.
- ② PROVIDE AND INSTALL DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROL OF FIXTURES IN THE ROOM. SENSOR TO BE WATTSTOPPER DT-355.

BATHHOUSE FLOOR PLAN - ELECTRICAL
 SCALE: 1/4"=1'-0"

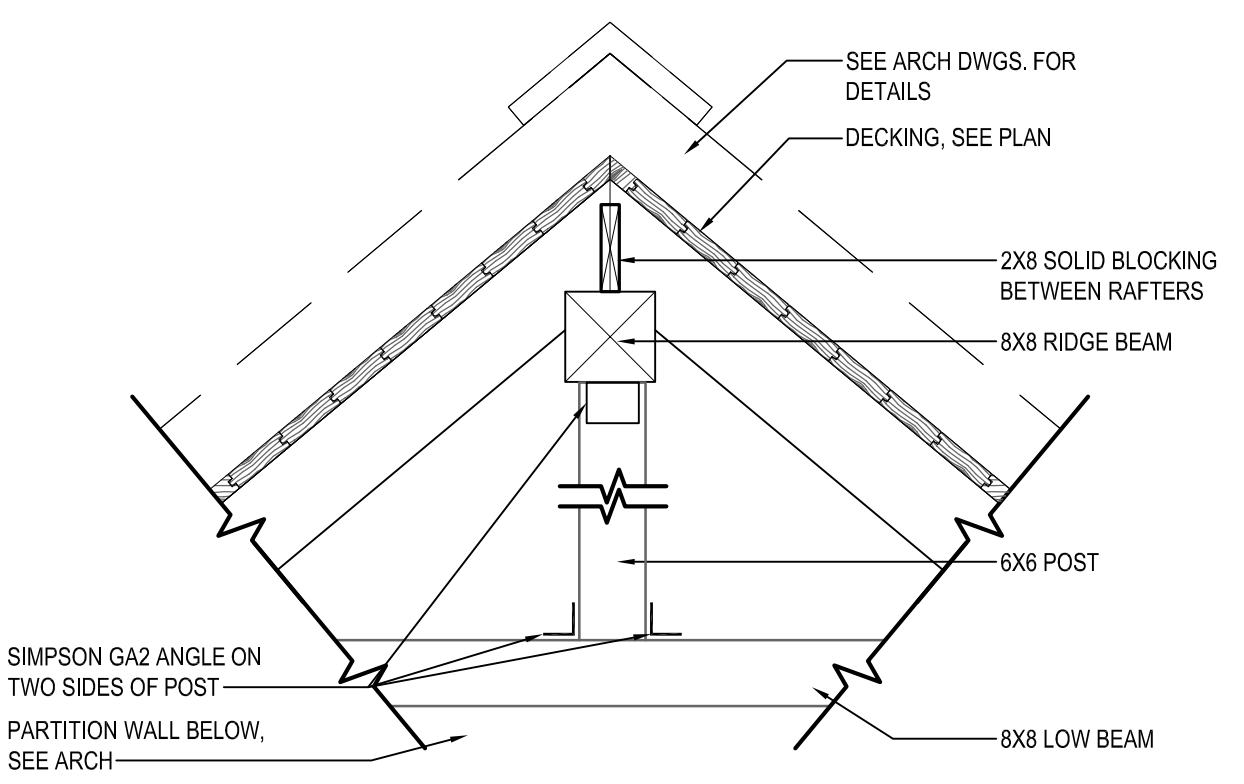
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		NO.	DESCRIPTION	BY	DATE	APPROVED	DATE	APPROVED	DATE
				CHIEF ENGINEER PROJECT MANAGER	SCALE: AS NOTED DRAWN BY: M.J.F. CHECKED BY: J.A.B. SHEET NO. 57 OF 63 PROJECT NO.: P584501 CONTRACT NO.: P584500				
				ASSISTANT CHIEF ENGINEER	CHIEF, RIGHT-OF-WAY				
				JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION BATHHOUSE FLOOR PLAN - ELECTRICAL E103					

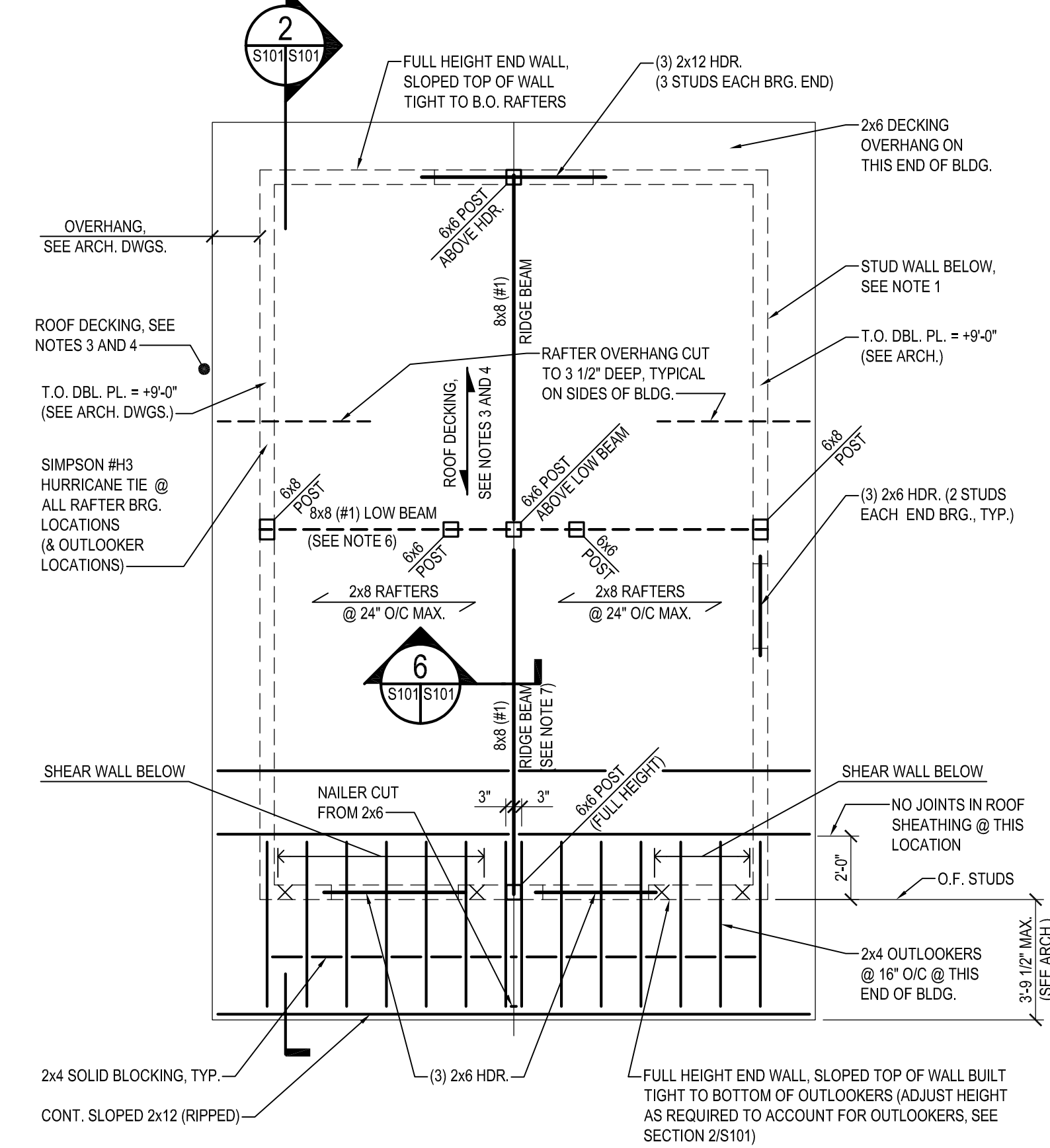


A CABIN FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

- FOUNDATION PLAN NOTES:**
- FOOTINGS HAVE BEEN DESIGNED FOR AN ASSUMED SOIL BEARING PRESSURE OF 1,500 PSF. CONTRACTOR VERIFY SOIL CONDITIONS. SEE GENERAL NOTES.
 - BOTTOM OF FOOTINGS, AND BOTTOM OF TURNED-DOWN SLAB EDGE WHERE NO FOOTING, SHALL BE 30" MINIMUM BELOW GRADE. CONTRACTOR COORDINATE WITH FINAL GRADES.
 - CONCRETE SLAB ON GRADE SHALL BE 5" THICK REINFORCED WITH 6"x6" - W2xW2 W.W.F. (AND ADDITIONAL BARS WHERE NOTED) PLACE SLAB ON 10 MIL VAPOR BARRIER & 4" GRAVEL SUB-BASE.
 - "CJ" INDICATES SLAB CONTROL JOINTS. SEE DETAIL 3/S101.
 - SEE SITE DWGS. FOR FINISHED FLOOR ELEVATION. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND EXTENT OF DEPRESSIONS AND FLOOR SLOPES IN CONCRETE SLABS.
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.
 - SLAB SHALL BE CURED WITH AN APPROVED SEALING COMPOUND AND FINISHED WITH AN APPROVED NON-METALLIC HARDENER. CURING COMPOUNDS AND HARDENERS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO THEIR USE AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - HOLD-DOWNS SHALL HAVE 5/8" Ø A36 GALVANIZE THREADED ROD ANCHOR BOLT, 6" MIN. EMBEDMENT W/ SIMPSON SET-3G EPOXY.
 - EXCEPT FOUR (4) HOLD-DOWNS SHOWN, ANCHOR BOLTS FOR BOTTOM WALL PLATES SHALL BE 1/2" x 8" EMBEDMENT (+3" HOOK) A307 GALVANIZE ANCHOR BOLT @ 4'-8" O.C. MAX. TYP. U.N.O.
 - CONTINUOUSLY - SHEATHED EXTERIOR WALLS ON SIDES & REAR ARE UTILIZED AS SHEAR WALLS WITH TYPICAL ANCHOR BOLTS.



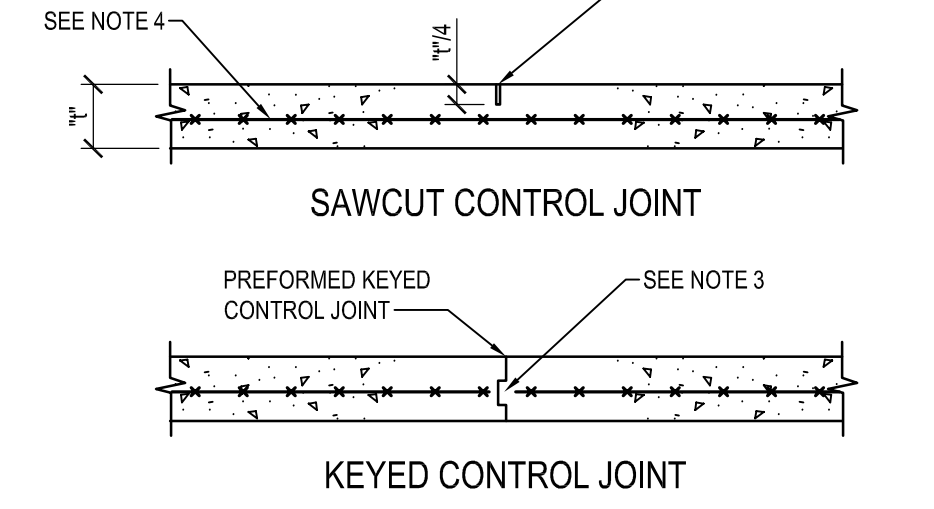
6 DETAIL
SCALE: 3/4" = 1'-0"



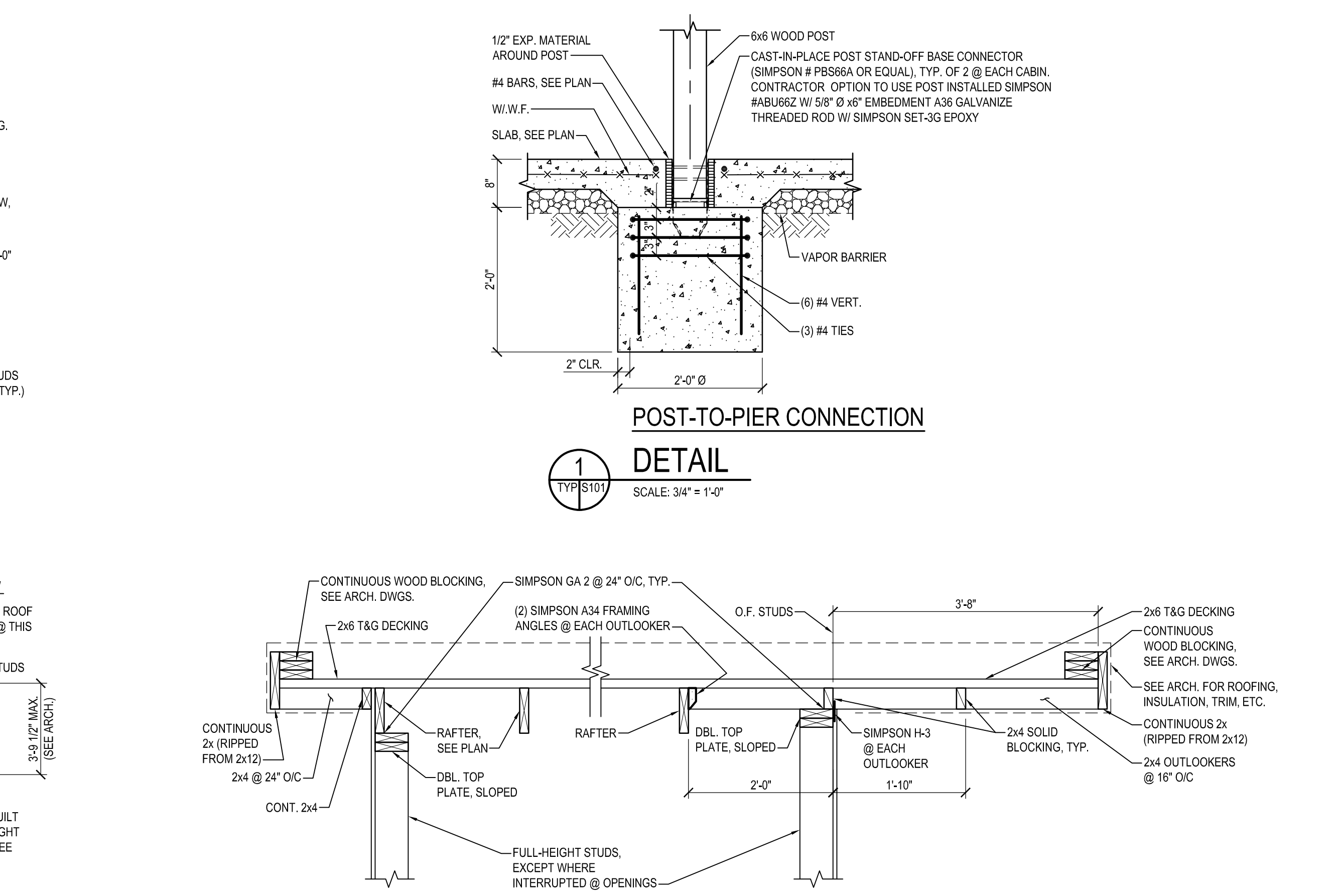
B CABIN ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

- ROOF FRAMING PLAN NOTES:**
- WALL STUDS SHALL BE 2x6 @ 16" O.C. MAX. THREE (3) STUDS IN CORNERS, W/ SINGLE (PRESSURE-TREATED) BOTTOM PLATE & DOUBLE TOP PLATE.
 - WALL SHEATHING SHALL BE 5/8" EXTERIOR GRADE PLYWOOD, ATTACH TO STUDS W/ 10d NAILS (GALV.) @ 6" O.C. @ EDGES AND 8" O.C. INTERMEDIATE.
 - INDICATES SPAN DIRECTION OF ROOF DECKING.
 - ROOF DECKING SHALL BE 2x6 T&G (SOUTHERN PINE SELECT), ATTACH TO EACH RAFTER WITH (3) 16d GALVANIZE SINKER NAILS. THREE - SPAN MINIMUM WITH JOINTS STAGGERED 32" MINIMUM.
 - SIMPSON H-1 HURRICANE TIE @ ALL RAFTER BEARINGS @ WALL.
 - TOP OF 8x8 LOW BEAM = +9' - 0"
 - TOP OF 8x8 RIDGE BEAM = +15' - 3 1/2"

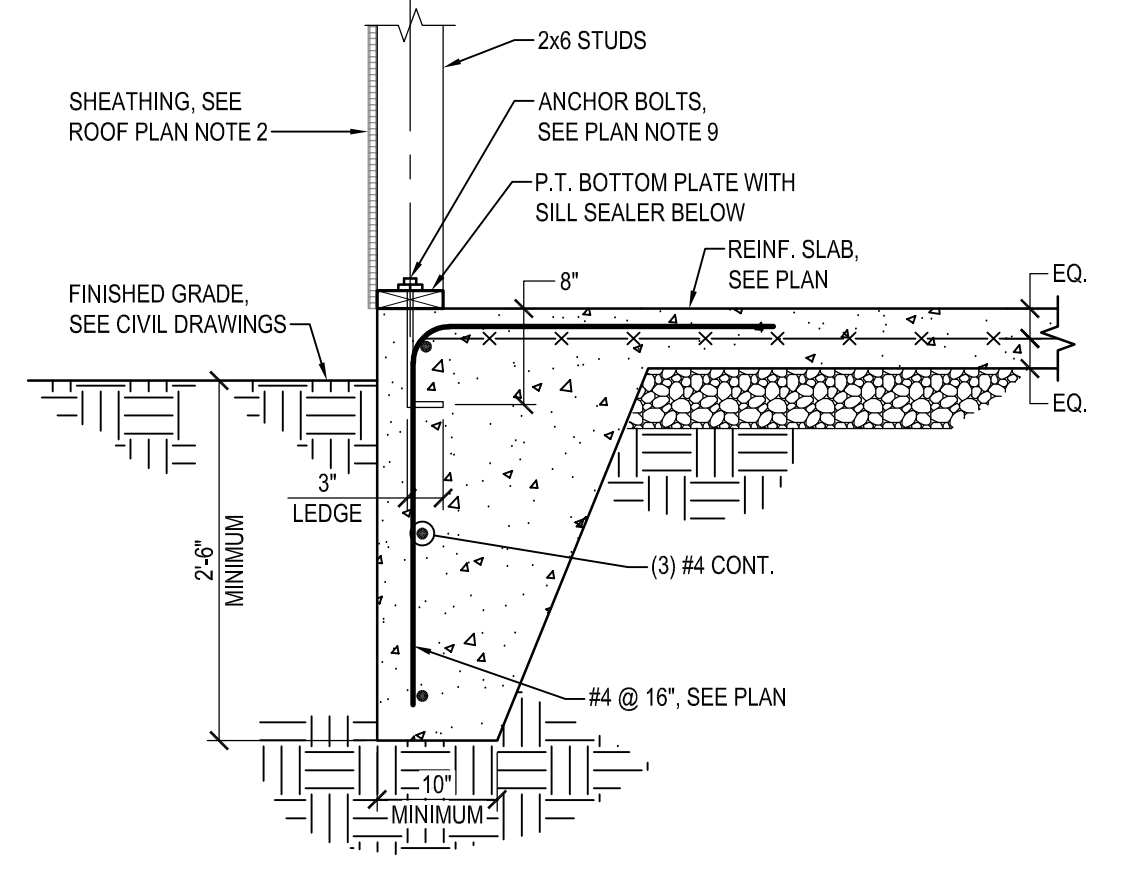
SAWCUT JOINT AS SOON AS SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE TORN OR DAMAGED BY BLADE (APPROX. 4-12 HOURS AFTER CONCRETE HARDENS) FILL JOINT WITH SEALANT HAVING A MIN. SHORE HARDNESS OF 80 (ASTM D 2240), AND IS ALSO COMPATIBLE WITH JET FUEL.



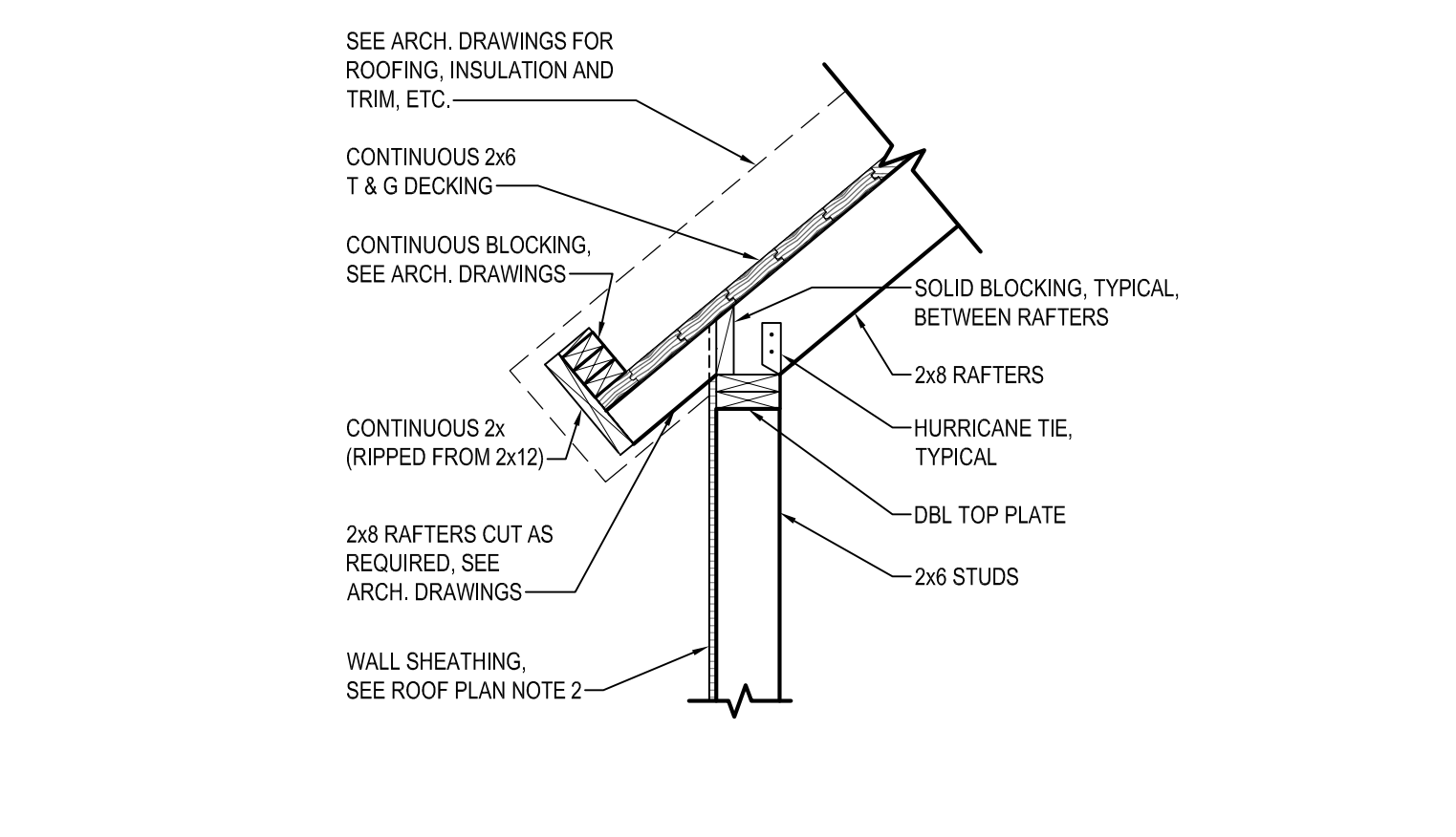
TYP. SLAB ON GRADE CONTROL JOINT
3 DETAIL
NOT TO SCALE



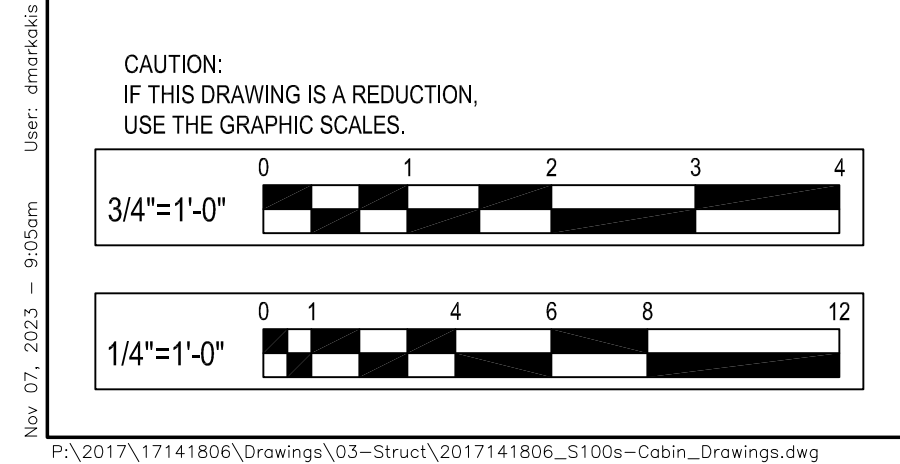
2 SECTION
SCALE: 3/4" = 1'-0"



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



5 SECTION
SCALE: 3/4" = 1'-0"



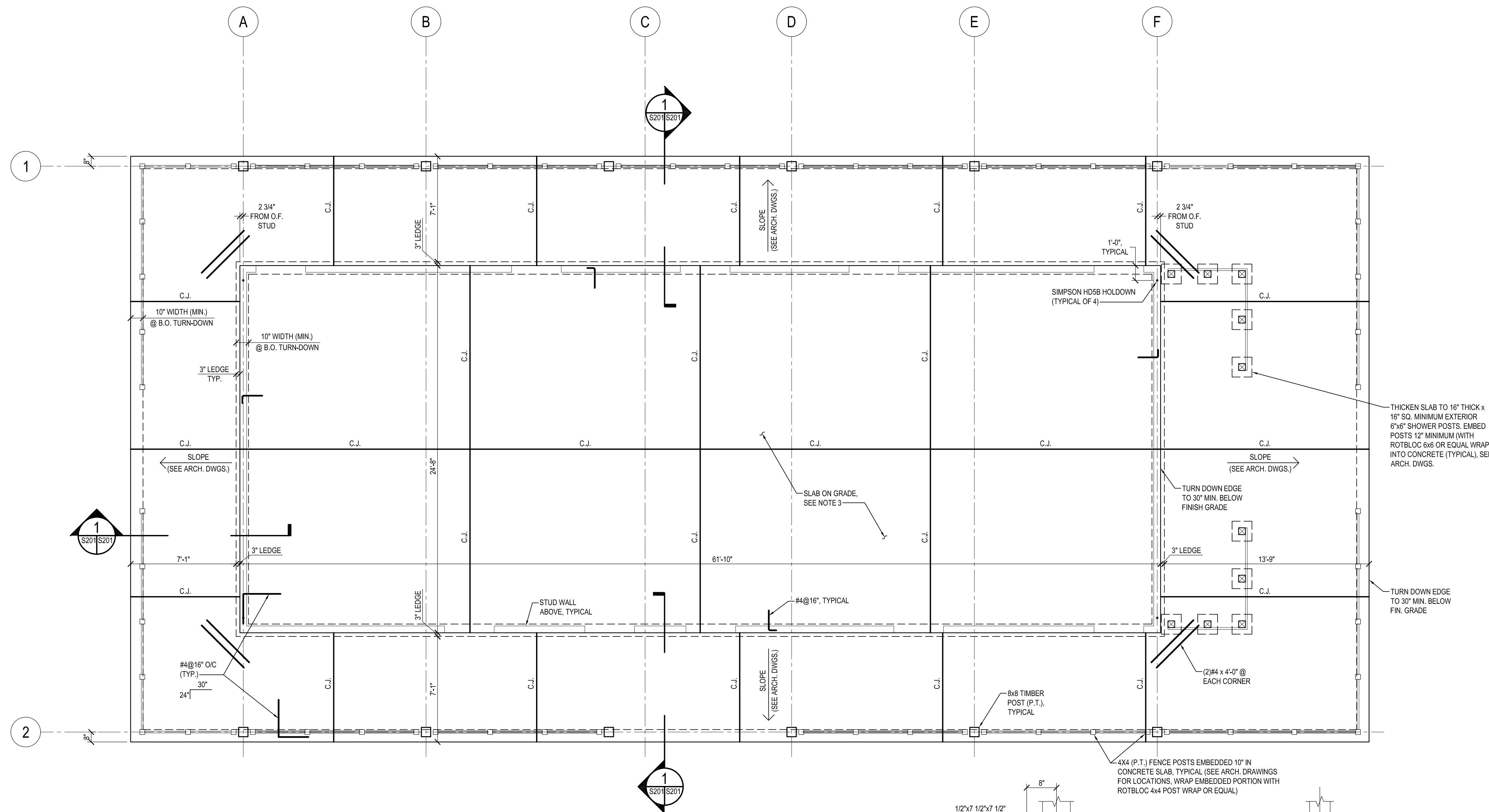
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APPROVED	DATE	APPROVED	DATE

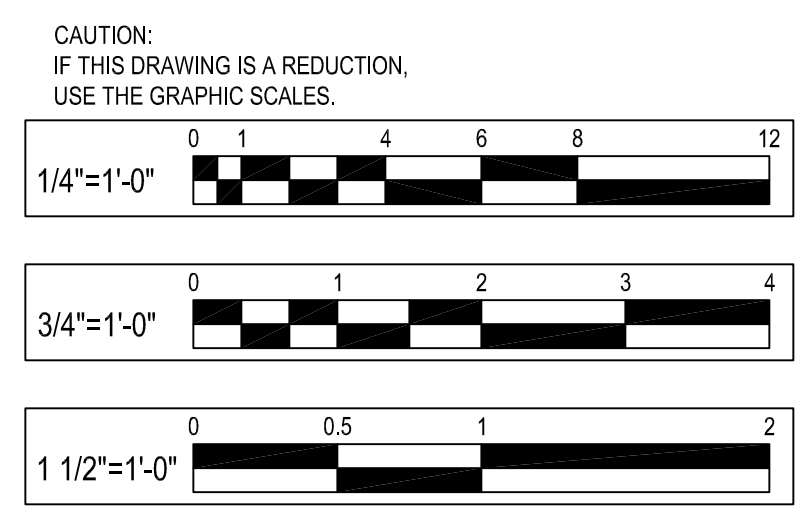
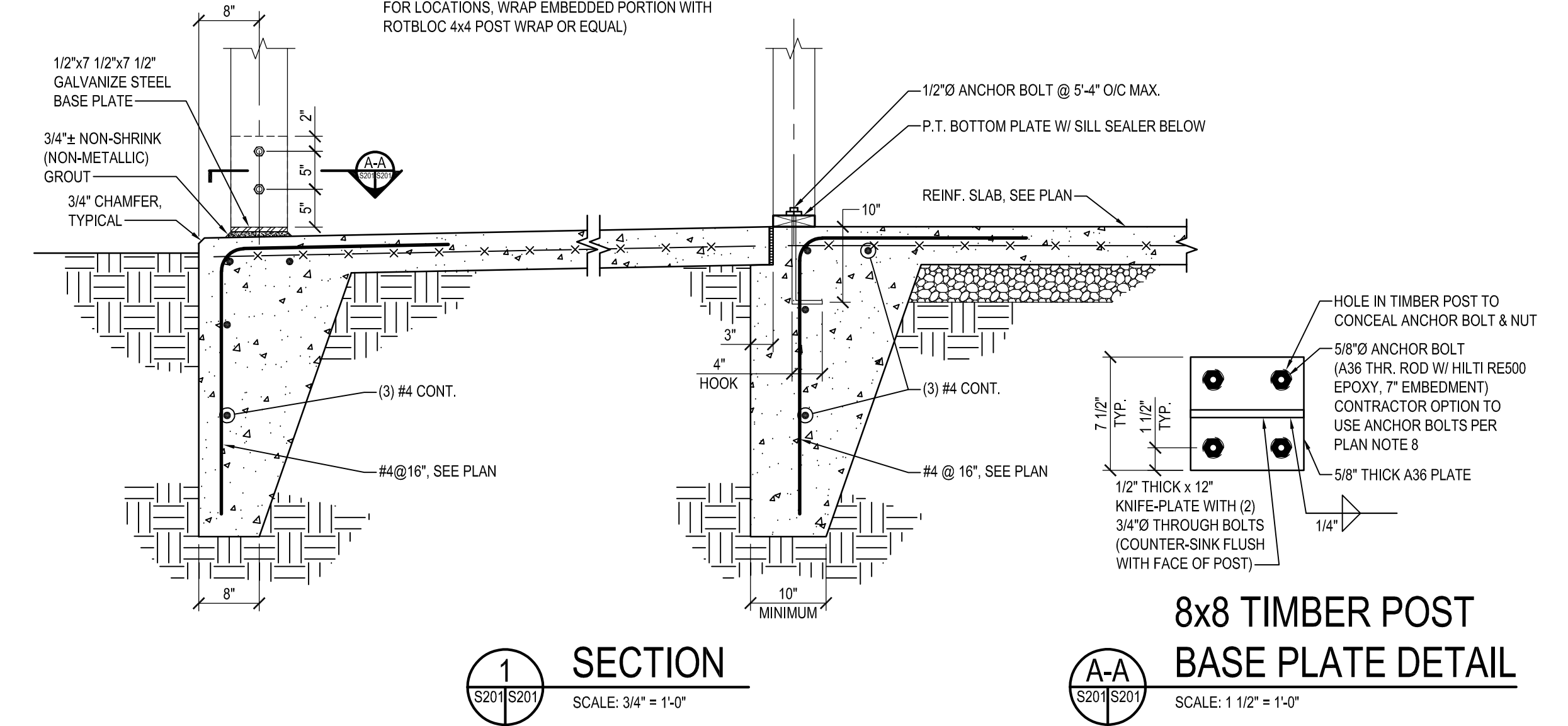
SCALE: AS SHOWN	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION CABIN FOUNDATION AND ROOF FRAMING PLANS S101
DRAWN BY: D.E.F.	
CHECKED BY: M.W.S.	
SHEET NO. 60 OF 63	
PROJECT NO.: P584501	
CONTRACT NO.: P584500	



A BATHHOUSE FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"

FOUNDATION PLAN NOTES:

- FOOTINGS HAVE BEEN DESIGNED FOR AN ASSUMED SOIL BEARING PRESSURE OF 1,500 PSF. CONTRACTOR VERIFY SOIL CONDITIONS. SEE GENERAL NOTES.
- BOTTOM OF FOOTINGS, AND BOTTOM OF TURNED-DOWN SLAB EDGE WHERE NO FOOTING, SHALL BE 30" MINIMUM BELOW GRADE. CONTRACTOR COORDINATE WITH FINAL GRADES.
- CONCRETE SLAB ON GRADE SHALL BE 5" THICK REINFORCED WITH 6"x 6" - W2 x W2 (AND ADDITIONAL BARS WHERE NOTED) PLACE SLAB ON 4" GRAVEL SUB-BASE.
- "C.J." INDICATES SLAB CONTROL JOINTS. SEE DETAIL 3/S101.
- SEE SITE DRAWINGS FOR FINISHED FLOOR ELEVATION. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND EXTENT OF DEPRESSIONS AND FLOOR SLOPES IN CONCRETE SLABS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.
- SLAB SHALL BE CURED WITH AN APPROVED SEALING COMPOUND AND FINISHED WITH AN APPROVED NON-METALLIC HARDENER. CURING COMPOUNDS AND HARDENERS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO THEIR USE AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ANCHOR BOLTS FOR BOTTOM PLATE SHALL BE 5/8" x 10" EMBEDMENT (4" HOOK) A307 ANCHOR BOLT @ 4'-8" O.C. MAX., TYP. U.N.O.
- CONTINUOUSLY - SHEATHED EXTERIOR WALLS ON LONG SIDES OF BUILDING ARE UTILIZED AS SHEAR WALLS WITH TYPICAL ANCHOR BOLTS.
- END WALLS ARE DESIGNED AS SHEAR WALLS.
- P.T.: INDICATES PRESSURE TREATED LUMBER.



WHITNEY BAILEY COX & MAGNANI, LLC
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 Baltimore, MD 21286
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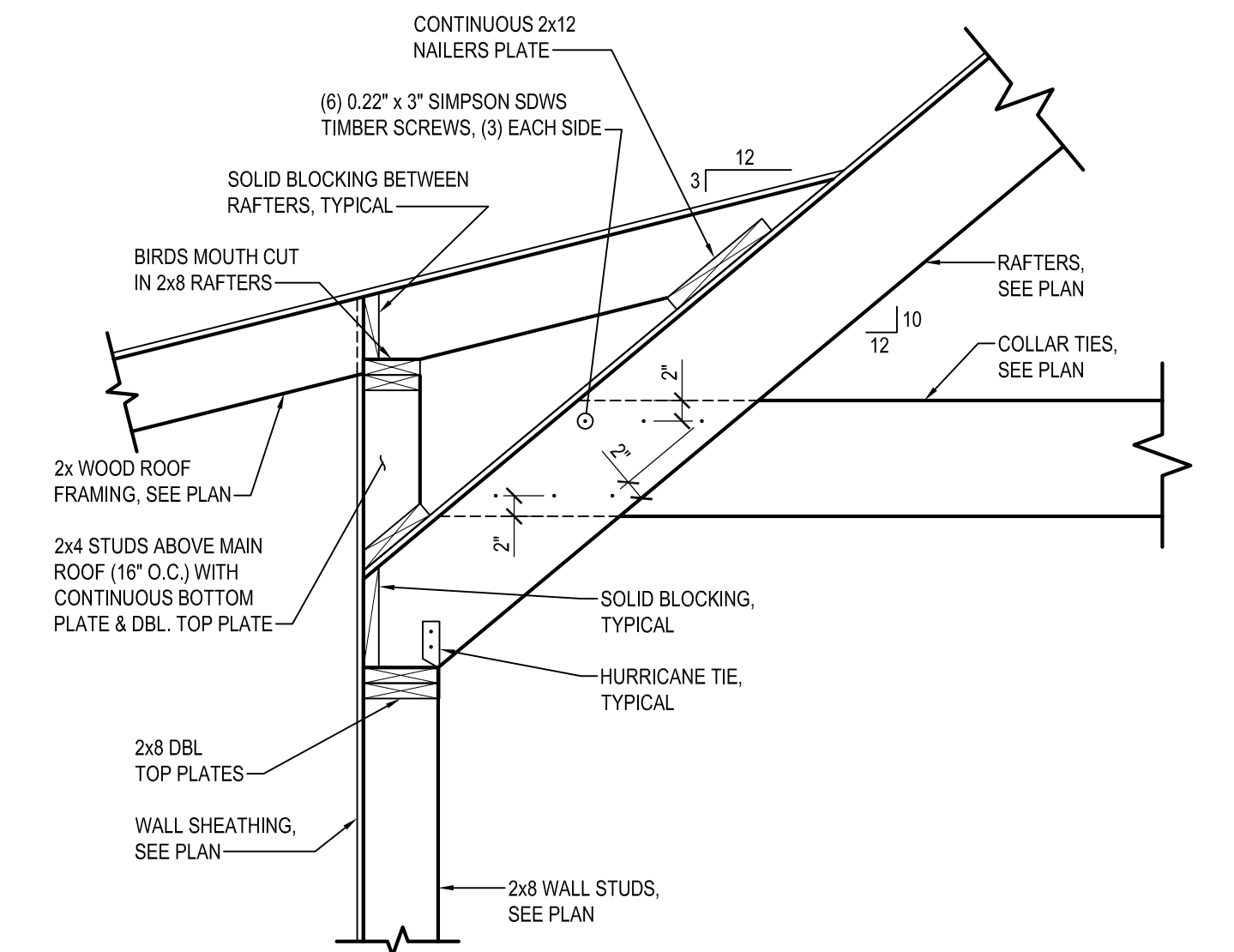
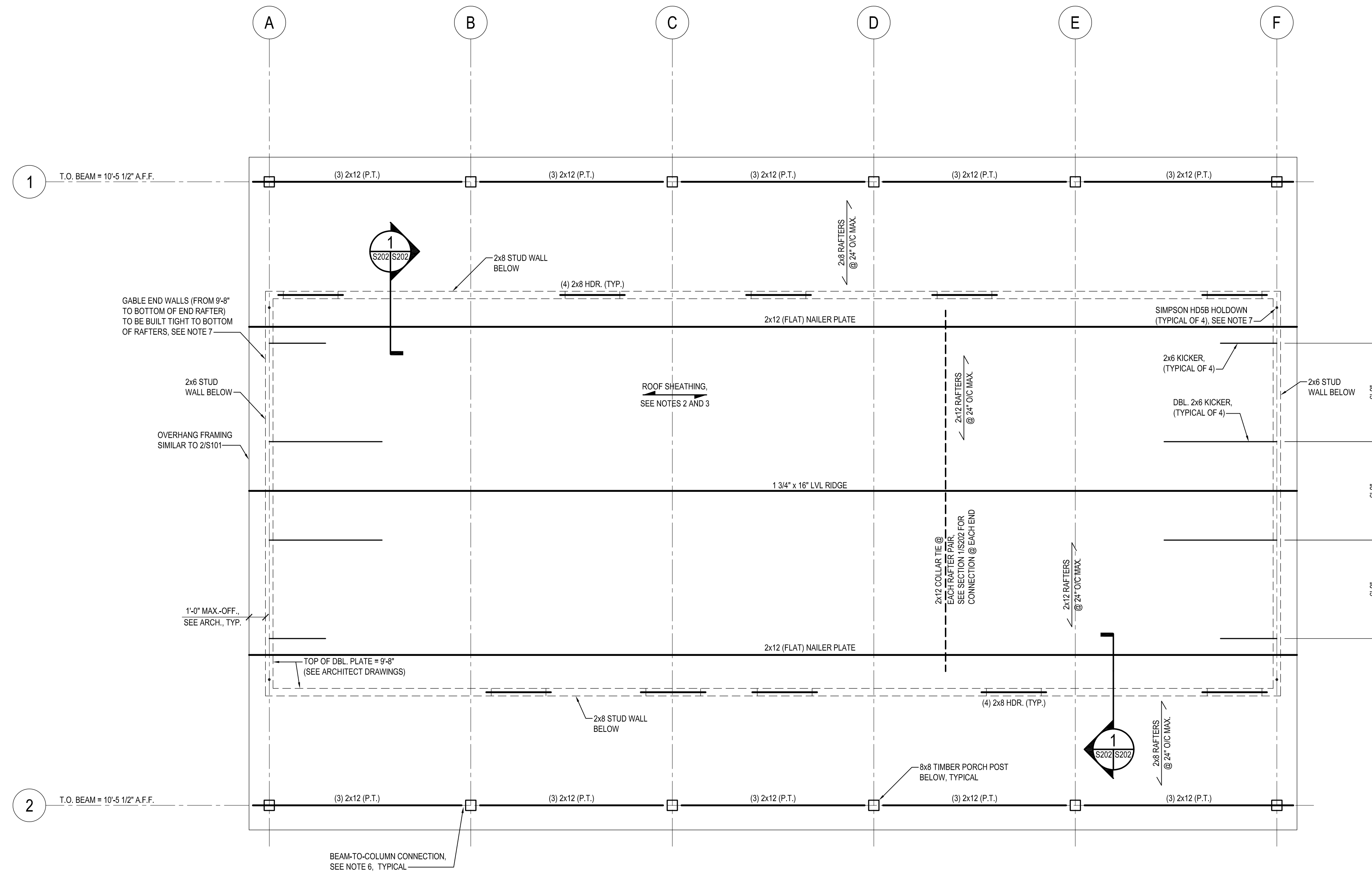
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NO.	DESCRIPTION	BY	DATE

ANNE ARUNDEL COUNTY
DEPARTMENT OF PUBLIC WORKS

APPROVED _____ DATE _____	APPROVED _____ DATE _____	SCALE: AS SHOWN	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION BATHHOUSE FOUNDATION PLAN AND SECTION S201
CHEIF ENGINEER _____	PROJECT MANAGER _____	DRAWN BY: D.E.F.	
APPROVED _____ DATE _____	APPROVED _____ DATE _____	CHECKED BY: M.W.S.	
ASSISTANT CHIEF ENGINEER _____	CHEIF, RIGHT-OF-WAY _____	SHEET NO. 61 OF 63	
		PROJECT NO.: P584501	
		CONTRACT NO.: P584500	

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Nov 07, 2023 9:05am User: dmarrakis



A BATHHOUSE ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

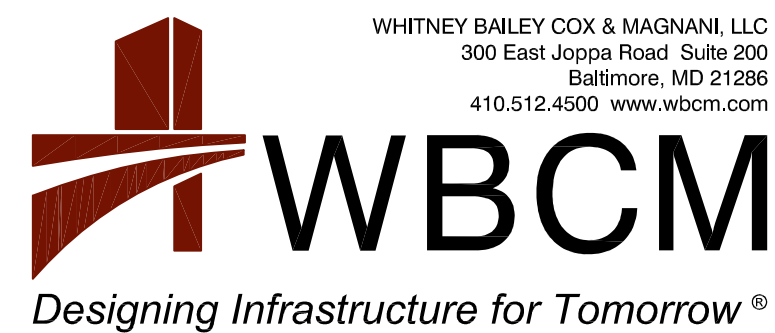
ROOF FRAMING PLAN NOTES:

1. WALL STUDS (SEE AS NOTED IN PLAN) SHALL BE @ 16" O/C MAX., THREE (3) STUDS IN CORNERS, WITH SINGLE (PRESSURE-TREATED) BOTTOM PLATE & DOUBLE TOP PLATE.
2. ALL WALL SHEATHING SHALL BE 5/8" EXTERIOR GRADE PLYWOOD, ATTACH TO SUPPORTS WITH 10d NAILS (GALVANIZE) @ 6" O/C.
3. : INDICATES SPAN DIRECTION OF ROOF SHEATHING.
4. ALL ROOF AND WALL SHEATHING SHALL BE 5/8" EXTERIOR GRADE PLYWOOD, ATTACH TO SUPPORTS WITH 10d NAILS (GALVANIZE) @ 6" O/C WITH H-CLIPS BETWEEN SUPPORTS.
5. SIMPSON H-1 HURRICANE TIE AT ALL RAFTER BEARINGS.
6. FOR BEAM-TO-COLUMN CONNECTIONS, USE SIMPSON C088 COLUMN CAP (HOT-DIPPED GALVANIZE), WITH BOLTS PER SIMPSON LITERATURE. PROVIDE 1/2" F.T. PLYWOOD SHIM EACH SIDE OF BEAM, 11"x6 1/2".
7. PROVIDE SIMPSON H05B HOLDOWN AT TOP OF BOTTOM WALL AND BOTTOM OF GABLE WALL AT FOUR (4) LOCATIONS NOTED WITH SIMPSON GA 2 @ 24" O/C (COLLAR TIE-TO-TOP OF WALL) BETWEEN HOLDOWNS.

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

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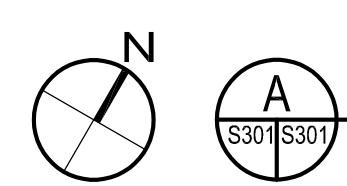
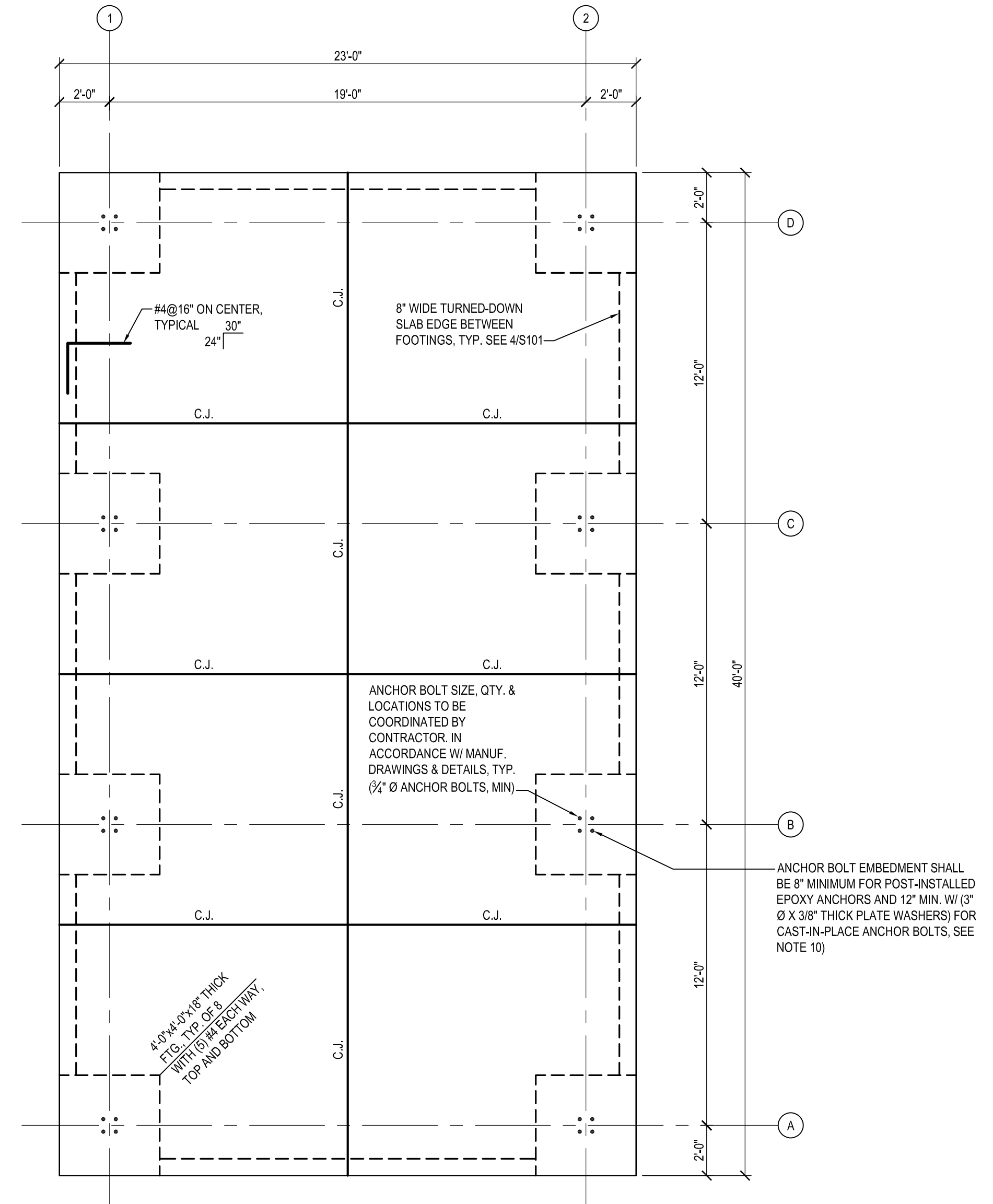
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ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED _____	DATE _____	APPROVED _____	DATE _____
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED _____	DATE _____	APPROVED _____	DATE _____
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: AS SHOWN	DRAWN BY: D.E.F.	JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION	
CHECKED BY: M.W.S.	SHEET NO. 62 OF 63	BATHHOUSE	
PROJECT NO.: P584501	CONTRACT NO.: P584500	ROOF FRAMING PLAN	
		S202	



PAVILION FOUNDATION PLAN

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

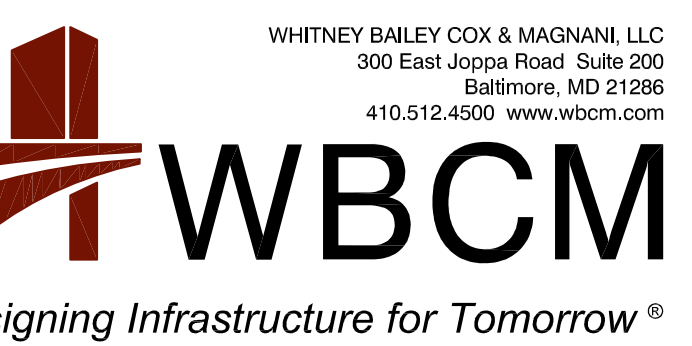
PAVILION FOUNDATION PLAN NOTES:

- FOOTINGS HAVE BEEN DESIGNED FOR AN ASSUMED SOIL BEARING PRESSURE OF 1,500 PSF. CONTRACTOR VERIFY SOIL CONDITIONS. SEE GENERAL NOTES.
- BOTTOM OF FOOTINGS AND BOTTOM OF TURNED-DOWN SLAB EDGE WHERE NO FOOTING, SHALL BE 30" MINIMUM BELOW GRADE. CONTRACTOR COORDINATE WITH FINAL GRADES.
- CONCRETE SLAB ON GRADE SHALL BE 5" THICK REINFORCED WITH #4@16" - W2.5hW2.5 (AND ADDITIONAL BARS WHERE NOTED) PLACE SLAB ON 4" GRAVEL SUB-BASE.
- "CJ" INDICATES SLAB CONTROL JOINTS. SEE DETAIL 3S101.
- SEE CIVIL DWGS. FOR FINISHED FLOOR ELEVATIONS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND EXTENT OF DEPRESSIONS AND FLOOR SLOPES IN CONCRETE SLABS.
- FOUNDATIONS DESIGNED TO SUPPORT PRE-ENGINEERED / PRE-FABRICATED PAVILION. SEE ARCH. DWGS. SEE BASIS-OF-DESIGN FOUNDATION LOADS ON THIS SHEET FOR WHICH FOUNDATIONS WERE DESIGNED.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.
- SLAB SHALL BE CURED WITH AN APPROVED SEALING COMPOUND AND FINISHED WITH AN APPROVED NON-METALLIC HARDENER. CURING COMPOUNDS AND HARDENERS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO THEIR USE, AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- FOR FOOTING REINFORCEMENT, PROVIDE 3" CLEAR TO BOTTOM BARS, 2" CLEAR TO TOP BARS.
- ANCHOR BOLT SHOP DRAWINGS SHALL BE SUBMITTED FOR E.O.R. REVIEW ALONG WITH BASE REACTIONS (PROVIDED BY MANUFACTURER) FOR PAVILION COLUMNS, PRIOR TO PLACEMENT OF FOOTING/SLAB CONCRETE. (4) 1/2" A307 GALV. THREADED RODS HAS BEEN ASSUMED BY THE E.O.R., WHICH SHALL BE VERIFIED AND COORDINATED BY THE CONTRACTOR.

ANCHOR BOLT EMBEDMENT SHALL BE 8" MINIMUM FOR POST-INSTALLED EPOXY ANCHORS AND 12" MIN. W/ (3" Ø X 3/8" THICK PLATE WASHERS) FOR CAST-IN-PLACE ANCHOR BOLTS. SEE NOTE 10)

4-3/8" X 1/4" THICK
FLG. TYP. @ 3'
WITH (6) PERIPHERY,
TOP AND BOTTOM

#4@16" ON CENTER,
TYPICAL
24"

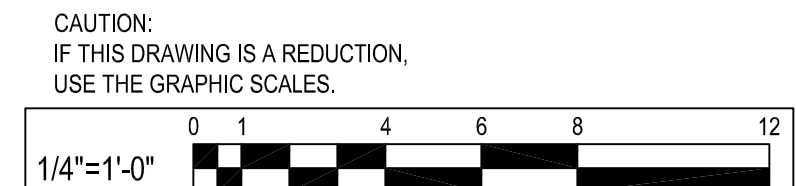


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ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS			
APPROVED	DATE	APPROVED	DATE
CHIEF ENGINEER		PROJECT MANAGER	
APPROVED	DATE	APPROVED	DATE
ASSISTANT CHIEF ENGINEER		CHIEF, RIGHT-OF-WAY	
SCALE: AS SHOWN	DRAWN BY: D.E.F.	CHECKED BY: M.W.S.	SHEET NO. 63 OF 63
	PROJECT NO.: P584501	CONTRACT NO.: P584500	

JUG BAY EDUCATION, RESEARCH, AND DISCOVERY FIELD STATION
PAVILION FOUNDATION PLAN S301



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