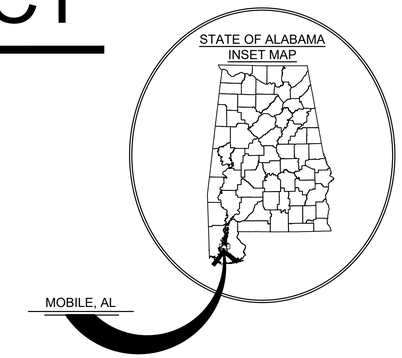
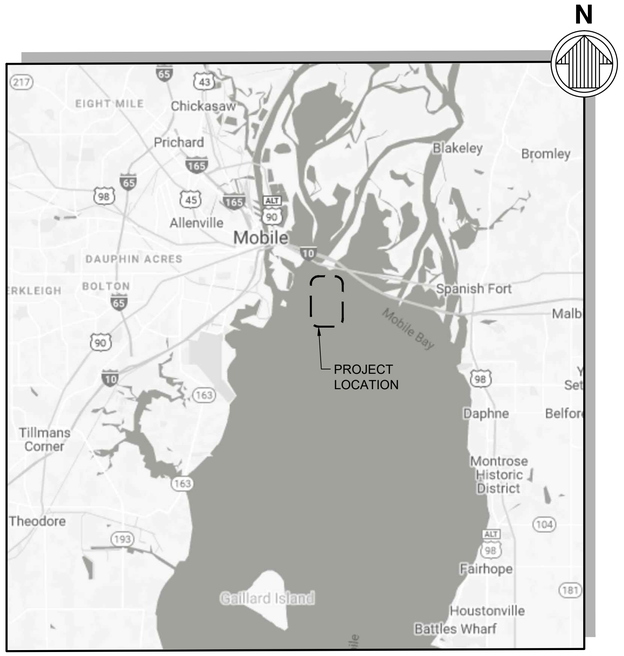
UPPER MOBILE BAY BENEFICIAL USE WETLAND CREATION SITE PROJECT

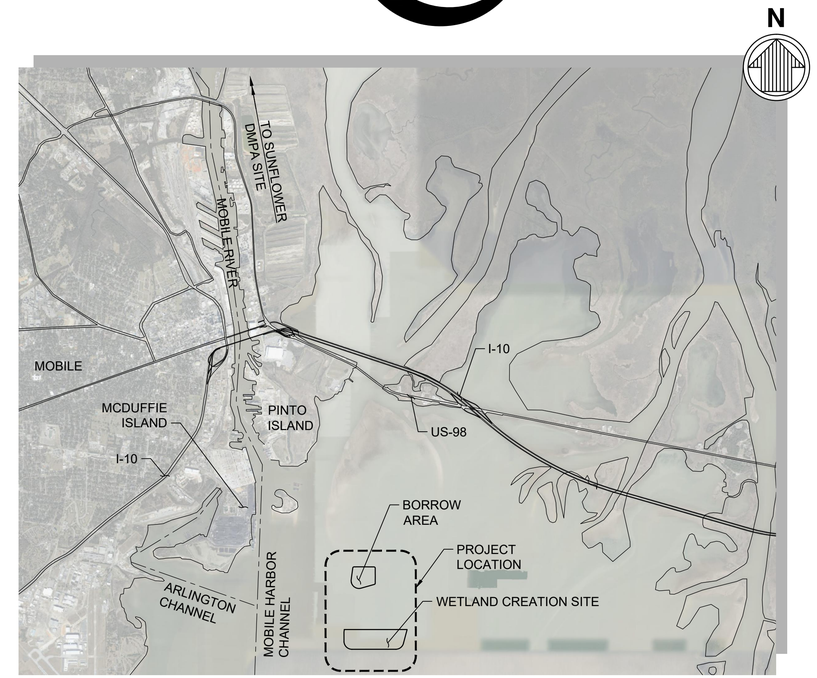
ALABAMA PORT AUTHORITY

ISSUED FOR PROPOSALS





VICINITY MAP
SCALE: NTS



LOCATION PLAN
SCALE: NTS

CLASSIFICATION: HEAVY AND RAILROAD CONSTRUCTION

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

TITLE SHEET

Designed by: NC	Date: 2026-09-22	Rev.	
Dwn by: GE	Cad by: PC	M&N Project No. 210315	REV/NO
Reviewed by: PK	Drawing code:		
Submitted by: MEG GOECKER	Drawing Scale:		
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11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

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ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

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		SURVEY AND GEOTECHNICAL
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8	C-101	WETLAND CREATION, BREAKWATERS AND BORROW AREA SITE LAYOUT
9	C-102	WETLAND CREATION, GEOTUBES AND BORROW AREA SITE LAYOUT
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PRICE SCHEDULE A AND B QUANTITIES

SUMMARY OF ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
001/101/201	MOBILIZATION	1	LS
002/102	CONSTRUCTION SURVEYING	1	LS
003/103	NORTHERN DIKE CONSTRUCTION	4,175	LF
004/104	BEDDING LAYER	15,600	TN
005/105	UNDERLAYER STONE - ALDOT CLASS 2	22,100	TN
006/106	GRADED ROCK RIPRAP - ALDOT CLASS 5	62,270	TN
007/107	GEOTEXTILE	46,000	SY
008/108	SAND BERM CONSTRUCTION	207,000	CY
009/109	ENVIRONMENTAL PROTECTION AND TURBIDITY CONTROL	1	LS
010/110	WEIR BOX	1	EA
011/111	PERMANENT WARNING SIGNS	24	EA
012/112	SUPPLEMENTAL TURBIDITY - TYPE II	1	100 LF-MONTH
013/113	SUPPLEMENTAL TURBIDITY - BOTTOM SEALING	1	100 LF-MONTH
014/114/214	DEMOBILIZATION	1	LS

PRICE SCHEDULE C QUANTITIES

SUMMARY OF ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
001/101/201	MOBILIZATION	1	LS
202	CONSTRUCTION SURVEYING	1	LS
203	NORTHERN DIKE CONSTRUCTION	4,240	LF
204	BEDDING LAYER	14,000	TN
205	GEOTUBE	20,000	LF
206	GRADED ROCK RIPRAP - ALDOT CLASS 5	71,800	TN
207	GEOTEXTILE	45,000	SY
208	SAND BERM CONSTRUCTION	124,000	CY
209	ENVIRONMENTAL PROTECTION AND TURBIDITY CONTROL	1	LS
210	WEIR BOX	1	EA
211	PERMANENT WARNING SIGNS	24	EA
212	SUPPLEMENTAL TURBIDITY - TYPE II	1	100 LF-MONTH
213	SUPPLEMENTAL TURBIDITY - BOTTOM SEALING	1	100 LF-MONTH
014/114/214	DEMOBILIZATION	1	LS

NOTES:

1. THESE PLANS ARE FOR THE CONSTRUCTION OF THE OUTER CONTAINMENT STRUCTURES, AND A WEIR BOX, FOR A 100-ACRE WETLAND CREATION CELL.
2. THE CONTAINMENT STRUCTURES CONSIST OF A NORTHERN DIKE TO BE CONSTRUCTED OF IN-SITU MATERIAL ADJACENT TO THE DIKE, WHILE THE EASTERN, SOUTHERN, AND WESTERN SEGMENTS OF THE CONTAINMENT STRUCTURE WILL CONSIST OF ONE OF TWO PROPOSED OPTIONS: 1) SAND BERM WITH SEGMENTED ROCK RIPRAP BREAKWATER SHORELINE PROTECTION, OR 2) SAND BERM WITH GEOTUBE/ROCK RIPRAP REVETMENT SHORELINE PROTECTION.
3. PRICE SCHEDULE A IS FOR THE SEGMENTED BREAKWATER OPTION WITH SAND SOURCED FROM THE LOCAL BORROW AREA ON SHEET C-100. THE SEGMENTED BREAKWATER LAYOUT IS SHOWN ON SHEET C-101.
4. PRICE SCHEDULE B IS FOR THE SEGMENTED BREAKWATER OPTION WITH SAND SOURCED FROM OFF-SITE SAND BORROW. THE USACE SUNFLOWER DA SITE IS A PRE-APPROVED SOURCE OF SANDY MATERIAL, BUT OTHER OFF-SITE OPTIONS MAY BE CONSIDERED IF THE MATERIAL MEETS THE MINIMUM SPECIFICATIONS FROM CONSTRUCTION SPECIFICATIONS SECTION 509 - IMPORTED FILL. PRICE SCHEDULE B LAYOUT IS THE SAME AS PRICE SCHEDULE A, AS SHOWN ON SHEET C-101.
5. PRICE SCHEDULE C IS FOR THE GEOTUBE/REVETMENT OPTION. THE GEOTUBE/REVETMENT LAYOUT IS SHOWN ON SHEET C-102. THE QUANTITIES ARE DIFFERENT FROM PRICE SCHEDULE A AND PRICE SCHEDULE B.

ESTIMATED QUANTITIES NOTES:

1. NORTHERN DIKE FILL QUANTITY IS THE NEAT LINE QUANTITY TO DESIGN LINES, GRADES AND ELEVATIONS, NOT INCLUDING HORIZONTAL OR VERTICAL TOLERANCES.
2. SAND BERM FILL QUANTITY IS THE NEAT LINE QUANTITY TO DESIGN LINES, GRADES AND ELEVATIONS, NOT INCLUDING HORIZONTAL OR VERTICAL TOLERANCES.
3. BEDDING STONE, ALDOT CLASS 2 AND ALDOT CLASS 5 STONE QUANTITIES CALCULATED AS FILL VOLUME TO DESIGN LINES, GRADES AND ELEVATIONS MULTIPLIED BY BULK DENSITY OF 1.5 TONS/CY.
4. OWNER RESERVES AND SHALL HAVE THE RIGHT TO MAKE SUCH ALTERATIONS IN THE WORK AS MAY BE NECESSARY OR DESIRABLE TO COMPLETE THE WORK ORIGINALLY INTENDED IN AN ACCEPTABLE MANNER. SEE SECTION 50-02 OF DIVISION IV - GENERAL PROVISIONS, CLAUSES, REQUIREMENTS, AND COVENANTS.

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

INDEX SHEET & NOTES

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Date: 2026-09-22
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Submitted by: MEG GOECKER

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ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

GENERAL NOTES

1. THIS PLAN SET IS FOR CONTRACTOR PROCUREMENT THROUGH THE REQUEST FOR PROPOSALS.
2. BACKGROUND AERIAL IMAGERY COURTESY OF MICROSOFT BING, 2021.
3. NO CONSTRUCTION EQUIPMENT OR ACTIVITIES MAY OPERATE, TRANSIT, STAGE OR STORE WITHIN THE AVOIDANCE AREAS AS SHOWN ON SHEET V-101.
4. NO BOTTOM DISTURBANCE TO BE MADE IN IDENTIFIED AVOIDANCE AREAS, WITHIN IDENTIFIED OBSTRUCTION AVOIDANCE AREAS, OR ENVIRONMENTALLY SENSITIVE AREAS INCLUDING EXISTING SAV BEDS OR EXISTING WETLANDS AS SHOWN ON SHEET V-101.
5. AVOIDANCE AREAS ARE NO-WORK ZONE AREAS IDENTIFIED TO HAVE CULTURAL RESOURCES. CONTRACTOR PERSONNEL, MATERIALS, AND EQUIPMENT SHALL AVOID THESE AREAS AND AT NO TIME SHALL THE CONTRACTOR PERFORM ANY WORK ACTIVITIES WITHIN THESE AREAS.
6. NO BOTTOM DISTURBANCE AREAS ARE AREAS IDENTIFIED TO HAVE BURIED POTENTIAL CULTURAL RESOURCES. CONTRACTOR MAY PERFORM WORK ACTIVITIES WITHIN THESE AREAS BUT SHALL NOT DISTURB THE WATER BOTTOM.
7. PURSUANT TO THE REQUIREMENTS OF ADEM ADMIN. CODE R. 335-8-2-.01, SHOULD CULTURAL RESOURCES BE ENCOUNTERED DURING THE COURSE OF CONDUCTING THE ACTIVITIES AUTHORIZED IN DEPARTMENT OF THE ARMY PERMIT -- SAM-2021-00246-DCH -- CONSTRUCTION ACTIVITIES MUST CEASE AND THE USACE, THE ADEM AND THE ALABAMA HISTORICAL COMMISSION MUST BE IMMEDIATELY NOTIFIED OF ANY HISTORICAL, CULTURAL, OR ARCHAEOLOGICAL RESOURCES THAT ARE DISCOVERED. CONTRACTOR SHALL NOTIFY THE ENGINEER WHO WILL THEN NOTIFY THE RELEVANT AGENCIES.
8. WARNING SIGNS AND LIGHTS TO BE INSTALLED PER USCG REQUIREMENTS, INCLUDING NECESSARY TEMPORARY LIGHTS AND SIGNAGE DURING CONSTRUCTION, AND PERMANENT LIGHTS AND SIGNAGE AS SHOWN IN THESE DRAWINGS.
9. THERE ARE NO STAGING OR LAYDOWN AREAS PROVIDED BY OWNER. CONTRACTOR ALONE IS REPONSIBLE FOR STAGING OR LAYDOWN AREAS.
10. CONTRACTOR SHALL NOTE THAT HEAVY OFFSHORE OPERATIONS ARE LIKELY TO OCCUR IN AN ACTIVE SHIPPING CHANNEL.
11. CONTRACTOR SHALL NOTE EXISTING WATER DEPTHS AND SEASONAL WATER LEVELS NEAR THE PROJECT SITE AND HOW THAT MAY AFFECT DRAFT LIMITATIONS.

SURVEY NOTES:

1. HORIZONTAL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983: NAD 83 (2011), ALABAMA STATE PLANE, WEST ZONE, U.S. SURVEY FEET. ALL UNITS ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFERENCE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET (UNLESS OTHERWISE NOTED). ORTHOMETRIC HEIGHTS CALCULATED USING GEOID12B.
3. CONTOURS SHOWN THROUGHOUT THESE DRAWINGS ARE ELEVATION CONTOURS, NOT DEPTH CONTOURS. TO CONVERT ELEVATIONS TO DEPTHS, USE THE PROVIDED TIDAL DATUMS.
4. CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION HYDROGRAPHIC AND MAGNETOMETER SURVEY OF THE LOCAL BORROW AREA SHOWN IN THESE DRAWINGS, IF CONTRACTOR WORK PLAN INCLUDES DREDGING FROM THE LOCAL BORROW AREA.
5. CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION HYDROGRAPHIC AND MAGNETOMETER SURVEY OF THE 100-ACRE WETLAND CREATION CELL CONTAINMENT DIKE EXTENTS.
6. SEE SECTION 521 AND 531 OF THE TECHNICAL PROVISIONS FOR ADDITIONAL SURVEYS AND SURVEY REQUIREMENTS.
7. UNLESS OTHERWISE INDICATED, WORKING POINTS REFER TO THE CENTERLINE OF THE ROCK RIPRAP STRUCTURE, OR THE CENTERLINE OF THE NORTHERN DIKE.

ROCK CONSTRUCTION NOTES:

1. ROCK RIPRAP SHALL NOT BE SEDIMENTARY ROCK. IT SHALL HAVE A MINIMUM SOLID WEIGHT OF STONE AT LEAST 165 POUNDS PER CUBIC FOOT. ALL ROCK RIPRAP SHALL MEET THE PRODUCT INFORMATION AS DESCRIBED IN PART II OF CONSTRUCTION SPECIFICATION 523 - ROCK RIPRAP BREAKWATERS OR CONSTRUCTION SPECIFICATION 533 - ROCK RIPRAP REVETMENT AND SHALL BE APPROVED BY ENGINEER PRIOR TO DELIVERY TO THE SITE.
2. TARGET LINES, GRADES, AND ELEVATIONS OF THE ROCK RIPRAP BREAKWATERS OR REVETMENT ARE SHOWN ON THESE DRAWINGS. CONSTRUCTION ACCEPTANCE AND TOLERANCES ARE PROVIDED IN CONSTRUCTION SPECIFICATION 523 - ROCK RIPRAP BREAKWATERS OR IN CONSTRUCTION SPECIFICATION 533 - ROCK RIPRAP REVETMENT. ROCK RIPRAP BREAKWATERS OR REVETMENT SHALL HAVE A VERTICAL TOLERANCE OF +/- 0.5 FT FOR ACCEPTANCE.
3. THE ROCK RIPRAP BREAKWATERS OR ROCK RIPRAP REVETMENT SHALL BE UNDERLAIN BY WOVEN GEOTEXTILE AS SHOWN ON THESE DRAWINGS AND AS DESCRIBED IN THE CONSTRUCTION SPECIFICATIONS.
   3.1. THE ROLL DIRECTION OF THE WOVEN GEOTEXTILE SHALL BE PARALLEL TO THE BREAKWATERS.

LOCAL BORROW AREA DREDGING NOTES:

1. THE LOCAL BORROW AREA MAY BE USED TO CONSTRUCT THE SAND BERM FEATURE. THE LOCAL BORROW AREA MATERIALS MAY NOT BE USED TO CONSTRUCT THE NORTHERN DIKE OR TO FILL GEOTUBES.
2. ANCHOR BUOYS, AND DREDGE PIPELINE (FLOATING OR SUBMERGED) SHALL BE MARKED IN ACCORDANCE WITH THE U.S. COAST GUARD REGULATIONS INCLUDING REQUIRED FLASHING LIGHTS, WARNING SIGNS AND MARKERS.
3. THE CONTRACTOR MAY DREDGE WITHIN THE LOCAL BORROW AREA TO THE ELEVATION INDICATED IN THESE DRAWINGS.
4. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A COMMUNICATION PLAN TO THE OWNER AND THE USACE OPERATIONS DIVISION, WHICH PRECISELY DELINEATES THE DREDGE LOCATION, ATTENDANT PLANT, ANCHOR BUOYS, AND FLOATING OR SUBMERGED PIPELINE PURSUANT TO THE PROJECT SPECIFICATIONS.
5. BORROW AREA VOLUME IS SHOWN ON SHEET C-350.
6. CONTRACTOR SHALL NOT DREDGE BELOW -20.0' , WHICH INCLUDES 2' OVERDREDGE TOLERANCE.

ALTERNATIVE SAND SOURCE NOTES:

1. ENGINEER WILL CONSIDER ALTERNATIVE SOURCES OF CLEAN SAND FOR CONSTRUCTION OF THE SAND BERM AND FOR FILLING GEOTUBES. SAND MUST HAVE A MINIMUM MEDIAN GRAIN SIZE (D50) GREATER THAN 0.20 MM, FINES CONTENT (PERCENT PASSING NO. 200 SIEVE) < 10%, AND FREE OF WOOD, TRASH, METAL, ROOTS, CLAY LUMPS. ALTERNATIVE SAND SOURCES MUST BE APPROVED BY ENGINEER BEFORE USE.
2. THE USACE SUNFLOWER DREDGED MATERIAL PLACEMENT AREA NEAR RIVER MILE 78 ON THE TENNESSEE-TOMBIGBEE WATERWAY IS A PRE-APPROVED SOURCE OF SAND FOR CONSTRUCTION OF THE SAND BERM AND FILLING GEOTUBES. SEE SHEET V-102 FOR ADDITIONAL NOTES.

MATERIAL OFFLOADING/PLACEMENT NOTES:

1. MATERIAL OFFLOADING (INCLUDING ROCK PLACEMENT AND HYDRAULIC/MECHANICAL PLACEMENT OF MATERIALS) SHALL BE PERFORMED IN A MANNER TO KEEP TURBIDITY WITHIN ADEM WATER QUALITY REQUIREMENTS.

SAND BERM NOTES:

1. SAND BERM CONSTRUCTION MAY ONLY PROCEED AFTER APPROVAL OF ADJACENT SEGMENTED BREAKWATERS/GEOTUBES SUCH THAT THE SAND BERM IS NOT ERODED BY WAVES EXTERIOR TO THE SITE.
2. TRAINING/GUIDE DIKES MAY BE UTILIZED BY THE CONTRACTOR AHEAD OF THE DREDGE PIPELINE AS THE MATERIAL IS PLACED ALONG THE SAND BERM IN ORDER TO MINIMIZE THE LOSSES AND SPREAD OF DREDGED MATERIAL, AND TO CONTROL TURBIDITY. TRAINING DIKES SHALL BE DEGRADED OR OTHERWISE INCORPORATED INTO THE WORK WITHIN THE LINES, GRADES, AND ELEVATIONS. MATERIAL FOR TRAINING DIKES MAY BE FROM HYDRAULICALLY PLACED MATERIAL OR FROM IN-SITU MATERIAL BORROWED FROM WITHIN THE 100-ACRE WETLAND CREATION SITE UPON APPROVAL BY THE ENGINEER.

NORTHERN DIKE NOTES:

1. THE NORTHERN DIKE SHALL BE CONSTRUCTED MECHANICALLY. MATERIAL FOR THE NORTHERN DIKE SHALL BE TAKEN FROM THE PRIMARY AND SECONDARY BORROW DITCHES SHOWN ON THESE DRAWINGS. THE NORTHERN DIKE SHALL BE CONSTRUCTED IN A MINIMUM OF THREE SEPARATE LIFTS, AS DETAILED IN CONSTRUCTION SPECIFICATION SECTION 508 - NORTHERN DIKE CONSTRUCTION.
2. IT IS EXPECTED THAT BOTH THE PRIMARY AND SECONDARY BORROW DITCHES WILL BE REQUIRED TO COMPLETE THE NORTHERN DIKE. THE PRIMARY BORROW DITCH SHALL BE THE PRIMARY SOURCE OF MATERIAL TO THE EXTENT PRACTICAL BASED ON CONTRACTOR EQUIPMENT, AND MEANS AND METHODS. CONTRACTOR MAY UTILIZE THE SECONDARY BORROW DITCH AS APPROVED BY ENGINEER BASED ON NEEDED BORROW VOLUMES AND/OR EQUIPMENT REACH OR PRODUCTION LIMITATIONS TO MINIMIZE DOUBLE HANDLING MATERIAL.
3. THE NORTHERN DIKE IS TO BE CONSTRUCTED TO ELEVATION +6.0' WITH A VERTICAL TOLERANCE OF ±1.0' AT THE CREST. THE CREST WIDTH SHALL BE AT LEAST THE WIDTH SHOWN ON THESE DRAWINGS, AND THE SIDE SLOPE SHALL BE NO STEEPER THAN SHOWN ON THESE DRAWINGS.

ABBREVIATIONS

AC	ACRES
ADEM	ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AHC	ALABAMA HISTORICAL COMMISSION
ALDOT	ALABAMA DEPARTMENT OF TRANSPORTATION
AOS	APPARENT OPENING SIZE
APPROX	APPROXIMATE
B	BORING LOG ID
BL	BASELINE
BM	BENCH MARK
BOT	BOTTOM
CIRC	CIRCUMFERENCE
CL	CENTERLINE
CY	CUBIC YARD
DIA	DIAMETER
DMPA	DREDGED MATERIAL PLACEMENT AREA
EA	EACH
ECD	EARTHEN CONTAINMENT DIKE
EG	EXISTING GRADE
ELEV	ELEVATION
EXG	EXAGGERATION
EXIST	EXISTING
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT or FEET
H	HEIGHT
IN	INCH
INV	INVERT
ID	IDENTIFICATION
L	LENGTH
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MHW	MEAN HIGH WATER
MIN	MINIMUM
MLW	MEAN LOW WATER
MSL	MEAN SEA LEVEL
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
NAD 83	NORTH AMERICAN DATUM OF 1983
OZ	OUNCE
PFIP	PROJECT FEATURE INFLECTION POINT
SY	SQUARE YARD
USACE	UNITED STATES ARMY CORPS OF ENGINEERS
USCG	UNITED STATES COAST GUARD
SAV	SUBMERGED AQUATIC VEGETATION
TYP	TYPICAL
W	WIDTH
WCA	WETLAND CREATION AREA
WP	WORKING POINT

GEOTUBE NOTES:

1. GEOTUBES SHALL MEET THE FOLLOWING PERFORMANCE CRITERIA:
   1.1. 200 FT NOMINAL LENGTH
   1.2. 30 FT NOMINAL CIRCUMFERENCE
   1.3. AOS SUFFICIENTLY SIZED FOR MATERIAL FROM SUNFLOWER OR OTHER APPROVED SOURCE USED TO FILL THE GEOTUBES.
   1.4. PROTECTION FROM RUPTURE DURING ROCK PLACEMENT
   1.5. UV STABILIZED AND WARRENTED BY MANUFACTURER FOR A MINIMUM EXPOSED SERVICE LIFE OF 10 YEARS.
2. ADDITIONAL MEASURES SUCH AS NON-WOVEN GEOTEXTILE MAY BE USED TO PROTECT THE GEOTUBE DURING ROCK RIPRAP PLACEMENT.
3. CONTRACTOR ALONE IS RESPONSIBLE FOR THE REPAIR OF ANY GEOTUBES THAT RUPTURE DURING CONSTRUCTION, PRIOR TO FINAL ACCEPTANCE.

PROPOSED DREDGE PIPELINE CORRIDOR NOTES:

1. DREDGE PIPELINE SHALL NOT CROSS OBSTRUCTION AVOIDANCE AREAS SHOWN IN THESE DRAWINGS.
2. DREDGE PIPELINE MAY BE FLOATING OR SUBMERGED; HOWEVER IT MAY NOT BE SUBMERGED WITHIN NO BOTTOM DISTURBANCE AREAS.
3. CONTRACTOR SHALL SUBMIT A MARINE NAVIGATION PLAN AS PART OF THE WORK PLAN SUBMITTAL. PLAN SHALL INCLUDE, BUT IS NOT LIMITED TO, PROPOSED PIPLINE ROUTE(S), PROPOSED WARNING MARKINGS AND LIGHTING, ANCHOR LAYOUT, AND BARGE CORRIDORS.

WATER LEVEL INFORMATION

WATER LEVELS (FEET) (1983-2001 EPOCH)

MHW	+1.20'
MTL	+0.32'
NAVD 88 (DATUM)	0.00'
MLW	-0.40'

PERCENT EXCEEDANCE WATER LEVELS (FEET)

10%	+1.72'
50%	+0.75'
90%	-0.33'

NOTE: TIDAL WATER LEVEL DATUMS AND PERCENT EXCEEDANCE VALUES, AS CALCULATED BASED ON WATER LEVEL DATA FROM NOAA CO-OPS STATION 8736897 LOCATED AT THE COAST GUARD SECTOR IN MOBILE, AL.

WORKING POINTS

AS-##	CENTER OF ARMOR STONE CREST WP
BW-##-B	BEGINNING OF BREAKWATER WP
BW-##-E	ENDING OF BREAKWATER WP
BDS-R-#	BORROW DITCH SECONDARY RIGHT TOE WP
BDS-L-#	BORROW DITCH SECONDARY LEFT TOE WP
BDP-L-##	BORROW DITCH PRIMARY LEFT TOE WP
BDP-R-##	BORROW DITCH PRIMARY RIGHT TOE WP
ND-##	CENTER OF NORTHERN DIKE WP
SB-##	CENTER OF SAND BERM WP
WB-#	WEIR BOX GRADED SAND PAD
###+##	ALIGNMENT STATION

ISSUED FOR PROPOSALS
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File: P:\BR\210315\20 CADD_Active_construction set\210315G-003 ; Plotted: 9/22/2026 10:27 AM by: ESPINO, GUILLERMO ; Saved: 9/21/2026 6:25 PM by: GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

NOTES:

1. EXISTING ELEVATIONS FROM SURVEY DATA COLLECTED BY ROWE ENGINEERING AND SURVEYING, INC. AUGUST 2021. ELEVATIONS REPRESENT CONDITIONS AT TIME AND LOCATIONS OF SURVEY AND SHOULD NOT BE INTERPRETED AS CONTINUOUS CONDITIONS. CHANGES SHOULD BE EXPECTED AS DETERMINED BY THE PRE-CONSTRUCTION SURVEY TO BE PERFORMED BY CONTRACTOR PRIOR TO CONSTRUCTION.
2. NO BOTTOM DISTURBANCE AREAS AND OBSTRUCTION AVOIDANCE AREA DELINEATED FROM CULTURAL RESOURCES DATA BY SOUTHEASTERN ARCHEOLOGICAL RESEARCH, 2014 AND 2021.
3. DISCREPANCIES BETWEEN EXISTING CONDITIONS SHOWN AND ACTUAL CONDITIONS SHALL IMMEDIATELY BE COMMUNICATED TO ENGINEER.
4. LOCATIONS OF EXISTING FEATURES ARE BASED ON AVAILABLE INFORMATION AND ARE NOT INTENDED TO REPRESENT ALL EXISTING FEATURES.
5. SUBMERGED FEATURES NOT DETECTED DURING SURVEY MAY EXIST.

LEGEND:

- NO BOTTOM DISTURBANCE AREA
- (1) ELEVATION CONTOUR
- OBSTRUCTION AVOIDANCE AREA
- MOBILE HARBOR CHANNEL CENTERLINE
- MOBILE HARBOR CHANNEL TOE OF SLOPE
- 100-ACRE WETLAND CREATION SITE
- SUBMERGED AQUATIC VEGETATION (SAV) AVOIDANCE AREA
- LOCAL BORROW AREA (TOP OF CUT)

1000' 0' 1000' 2000'

SCALE: 1"=1000'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GENERAL CONDITIONS (1 OF 2)

Designed by: NC	Cad by: PC	Date: 2026-09-22	Rev: REVNO
Dwn by: GE		M&N Project No: 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG GOECKER		Drawing Scale:	
		Plot scale: 1:1 (D SHEET)	

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

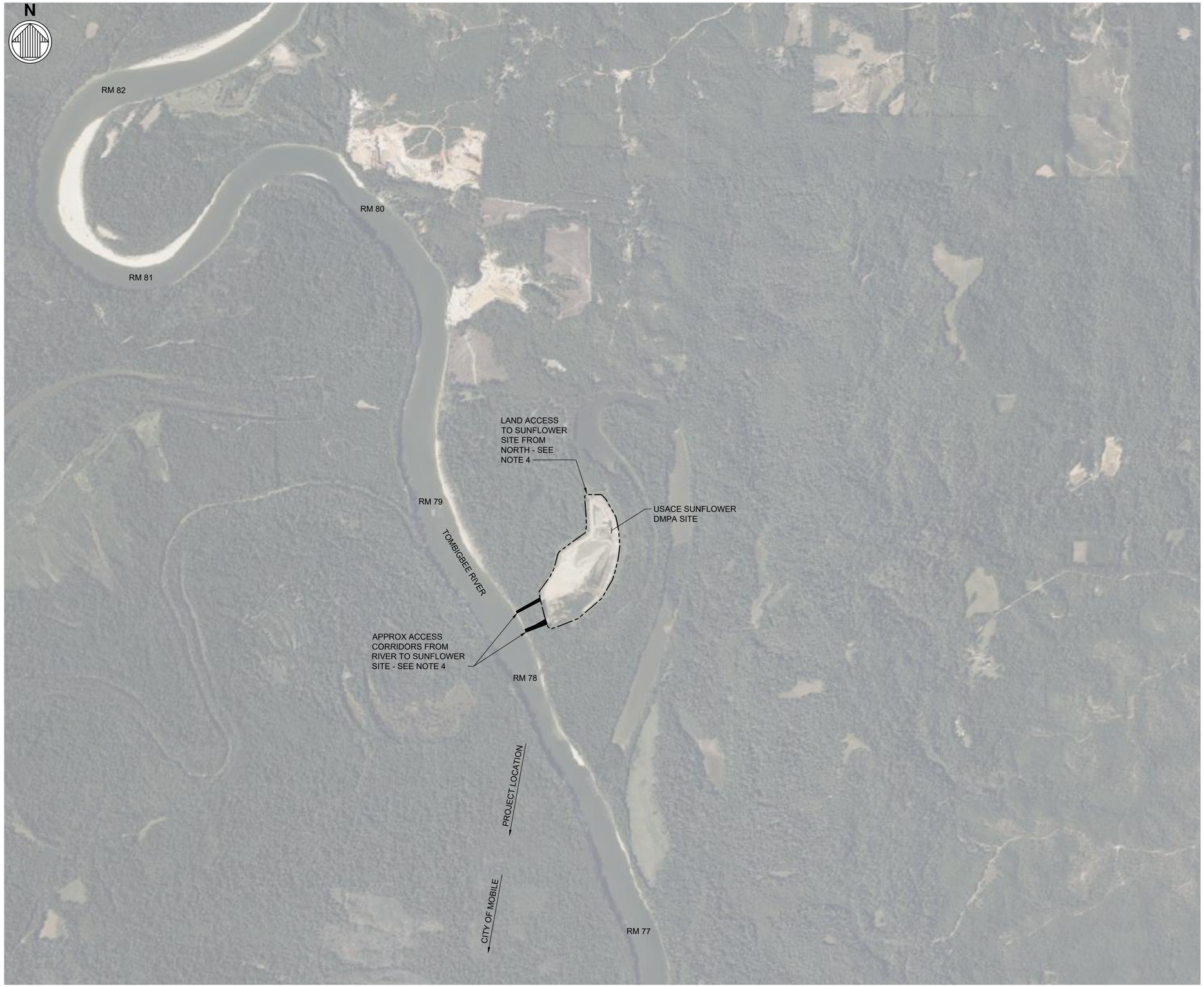
ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
V-101
INDEX: 4 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315V-101 ; Plotted: 9/22/2026 10:27 AM by: ESPINO, GUILLERMO ; Saved: 8/31/2026 12:37 PM by: NCOX

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



NOTES:

1. THE USACE SUNFLOWER DREDGED MATERIAL PLACEMENT AREA (DMPA) SITE IS PROVIDED AS AN APPROVED ALTERNATIVE SAND SOURCE FOR USE IN THE SAND BERM AND/OR FOR FILLING GEOTUBES.
2. CONTRACTOR ALONE IS RESPONSIBLE FOR ALL MOBILIZATIONS AND DEMOBILIZATIONS, COORDINATION AND APPROVALS, EQUIPMENT, OR OTHER WORK REQUIRED FOR OBTAINING AND TRANSPORTING SAND FROM THE SUNFLOWER SITE, AND ANY REQUIRED SITE CLEANUP PER USACE.
3. ENGINEER WARRANTS THAT THERE IS SUFFICIENT QUANTITY OF SAND AVAILABLE TO CONSTRUCT THE SAND BERM AND FILL GEOTUBES.
4. CONTRACTOR TO FAMILIARIZE THEMSELVES, AND IS ALONE RESPONSIBLE, FOR ACCESS BY LAND AND/OR RIVER TO THE SUNFLOWER SITE. ACCESS MAY BE IMPACTED DURING HIGH WATER EVENTS. SHOWN RIVER ACCESS CORRIDORS ARE APPROXIMATE AND SHALL BE COORDINATED WITH USACE. CLEARING AND GRUBBING IS ALLOWED WITHIN THE PREVIOUSLY CLEARED EXTENTS OF THE CORRIDOR. LAND ACCESS CONTINGENT UPON AGREEMENT WITH LANDOWNER, CONTACT USACE FOR ADDITIONAL INFORMATION.
5. SEE APPENDIX A OF THE CONSTRUCTION SPECIFICATIONS FOR SAND CHARACTERISTICS, GRADATION AND OTHER INFORMATION.
6. THE BULK DENSITY OF THE SAND IS NOT KNOWN. CONTRACTOR IS ENCOURAGED TO OBTAIN THIS INFORMATION PRIOR TO BIDDING AND CONSTRUCTION.
7. OWNER DOES NOT WARRANT THE EASE OF OPERATIONS AT THE SUNFLOWER SITE AND CONTRACTOR IS ENCOURAGED TO VISIT THE SITE PRIOR TO BIDDING AND CONSTRUCTION.
8. USACE CONTACT:
   VALERIE MORROW
   DREDGE MATERIAL PROGRAM MANAGER
   US ARMY CORPS OF ENGINEERS
   MOBILE DISTRICT
   251-690-2484

1000' 0' 1000' 2000'

SCALE: 1"=1000'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GENERAL CONDITIONS (2 OF 2)

Designed by: NC
Date: 2026-09-22
Rev: REVNO
Dwn by: GE
Cad by: PC
M&N Project No: 210315
Drawing code:
Reviewed by: PK
Submitted by: MEG GOECKER
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
V-102
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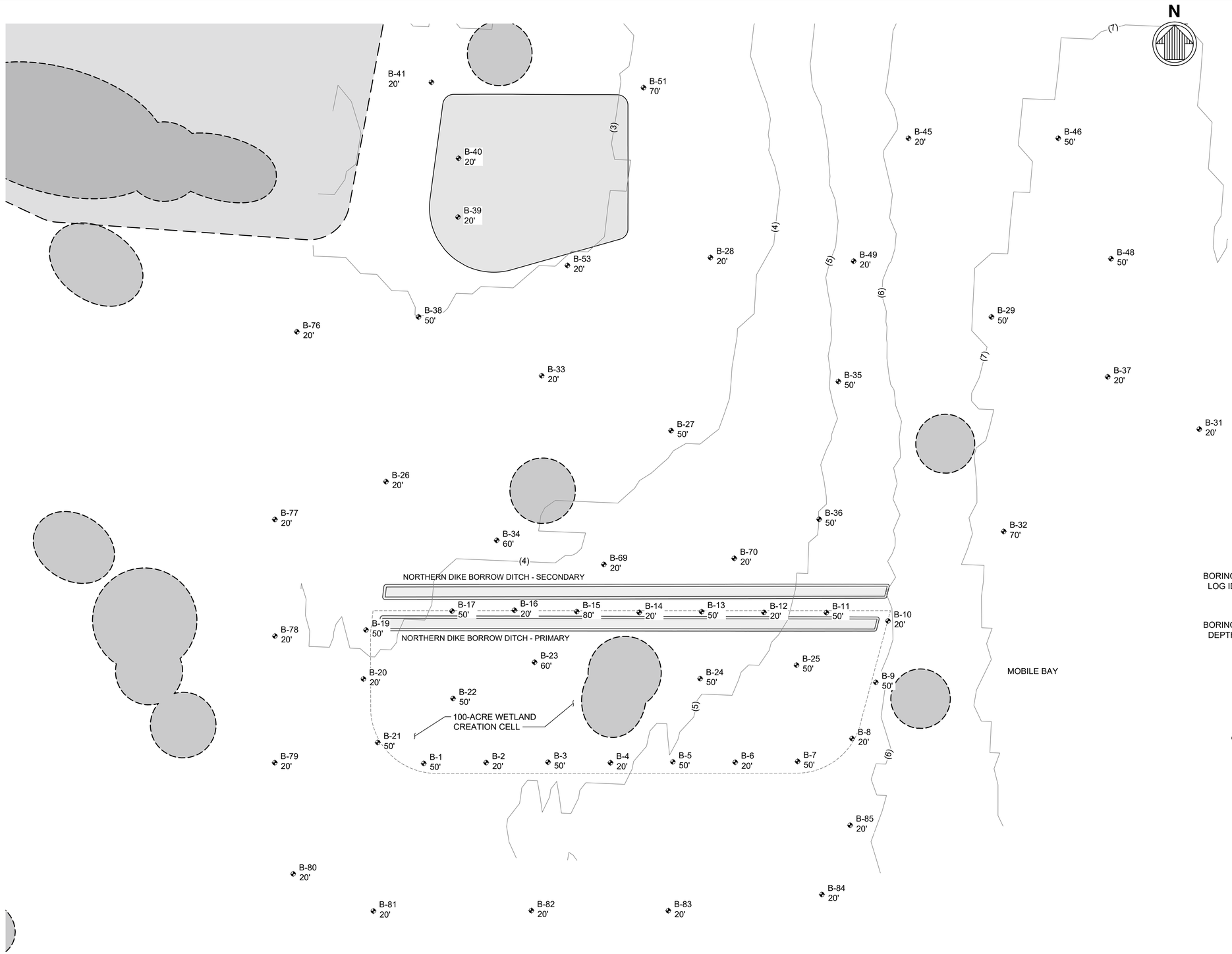
File: P:\BR\210315\20 CADD_Active_construction set\210315V-102 ; Plotted: 9/22/2026 10:28 AM by ESPINO, GUILLERMO ; Saved: 9/21/2026 6:36 PM by NCOX

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



NOTES:

1. SOIL BORINGS PERFORMED BY GEOTECHNICAL ENGINEERING TESTING, INC. JUNE - SEP 2021.
2. EXISTING ELEVATIONS FROM SURVEY DATA COLLECTED BY ROWE ENGINEERING AND SURVEYING, INC. AUGUST 2021.
3. SOIL BORINGS DEPICT SUBSURFACE CONDITIONS AT THE SPECIFIC LOCATIONS SHOWN, AND CONDITIONS MAY VARY BETWEEN BORING LOCATIONS. CONTRACTOR SHALL MAKE THEIR OWN INTERPRETATION OF PROJECT CONSTRUCTIBILITY BASED ON THESE BORINGS.
4. CONTRACTOR SHALL CONSIDER SOIL BORINGS TO DETERMINE CONSTRUCTION MEANS AND METHODS.

LEGEND:

- NO BOTTOM DISTURBANCE AREA
- OBSTRUCTION AVOIDANCE AREA
- BORING LOG ID / B-# / BORING DEPTH — SOIL BORING LOG ANNOTATION
- (1) — ELEVATION CONTOUR
- 100-ACRE WETLAND CREATION SITE
- LOCAL BORROW AREA (TOP OF CUT)
- NORTHERN DIKE BORROW DITCH

400' 0' 400' 800'

SCALE: 1"=400'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GENERAL SOIL BORING LOGS PLAN

Designed by: NC	Date: 2026-09-22		Rev. REVNO
Dwn by: GE	Ckd by: PC	M&N Project No: 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG GOECKER		Drawing Scale: Plot scale: 1:1 (0 SHEET)	

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
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INDEX: 6 OF 57

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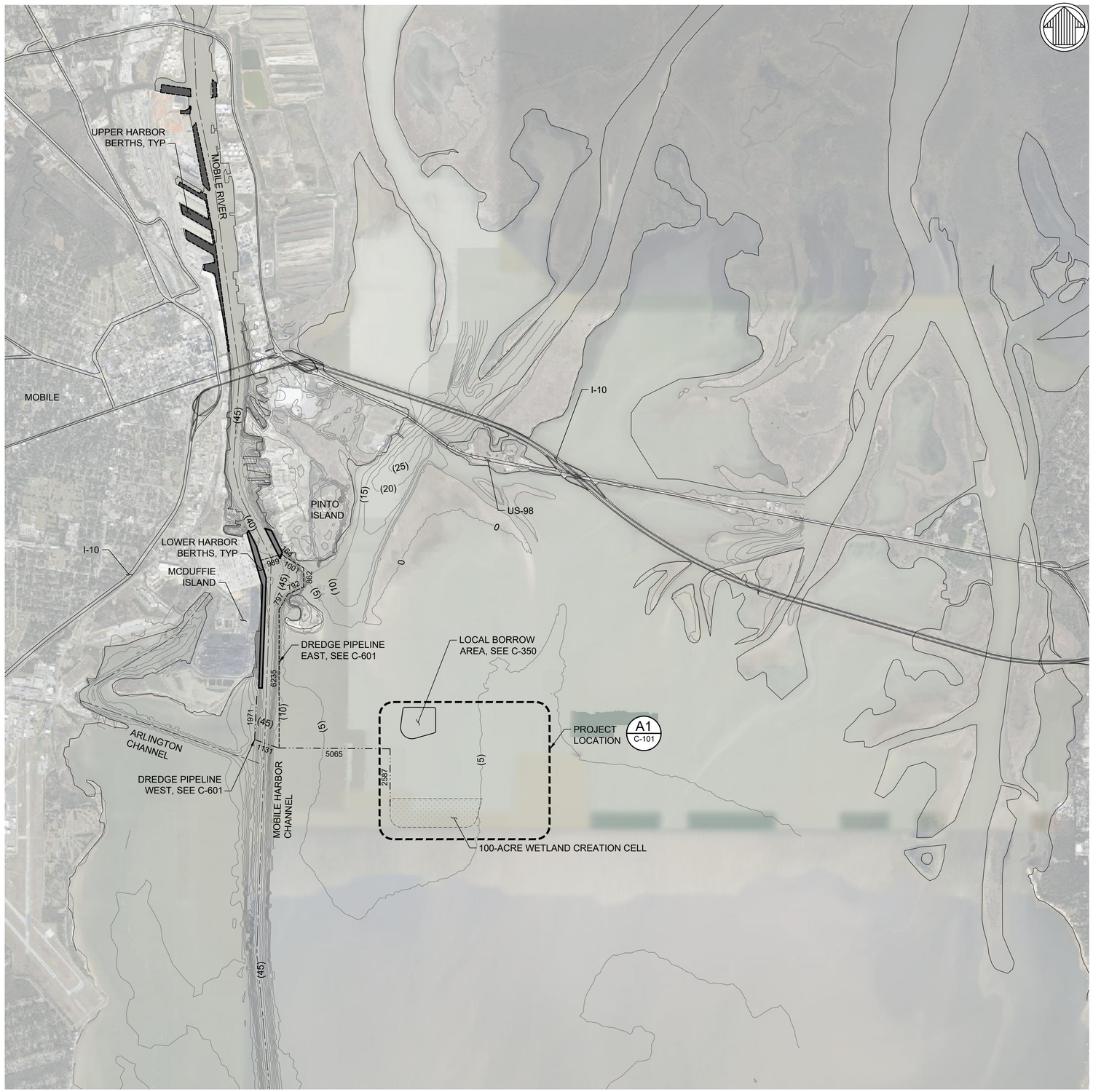
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



NOTES:

1. CONTRACTOR SHALL CONSIDER THAT TIDAL FLUCTUATIONS, WAVES, CURRENTS, WEATHER, AND SEASONAL VARIATIONS MAY IMPACT CONSTRUCTION.
2. ACCESS TO THE LOCAL BORROW AREA AND 100-ACRE WETLAND CREATION CELL IS BY OPEN-WATER ONLY, AND SITE ACCESSIBILITY PROCEDURES AND METHODS MAY CHANGE BASED ON WEATHER AND BAY CONDITIONS, SEE NOTE 1.
3. UPPER HARBOR AND LOWER HARBOR BERTHS, AND EAST AND WEST DREDGE PIPELINE ROUTES ARE NOT REQUIRED FOR CONSTRUCTION OF THE 100-ACRE WETLAND CREATION CELL, AND ARE PROVIDED FOR INFORMATION ONLY.

LEGEND:

- 100-ACRE WETLAND CREATION CELL
- UPPER HARBOR BERTHS
- LOWER HARBOR BERTHS
- LOCAL BORROW AREA (TOP OF CUT)
- DISTANCE (FEET): #### DREDGE PIPELINE EAST
- #### DREDGE PIPELINE WEST
- (1) ELEVATION CONTOUR

2500' 0' 2500' 5000'

SCALE: 1"=2500'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

OVERALL CIVIL SITE PLAN

Designed by: NC
Dwn by: GE
Ckd by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Date: 2026-09-22
Rev: REVNO
M&N Project No. 210315
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-100
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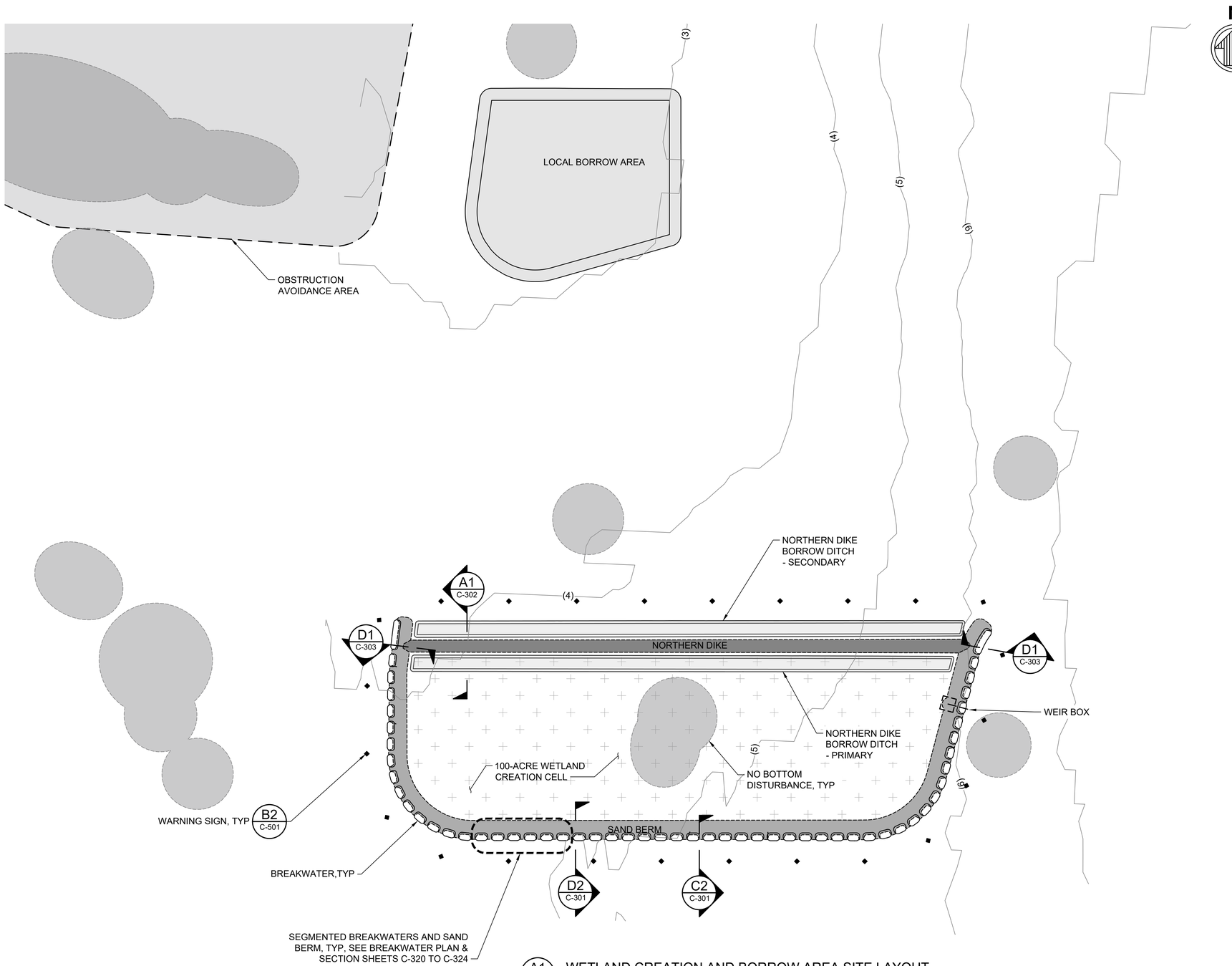
File: P:\BR\210315\20 CADD_Active_construction set\210315C-100 ; Plotted: 9/22/2026 10:29 AM by ESPINO, GUILLERMO ; Saved: 8/31/2026 3:15 PM by NCOX

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



A1 C-100 WETLAND CREATION AND BORROW AREA SITE LAYOUT
SCALE: 1" = 400'

NOTES:

1. THIS LAYOUT SHOWS THE SEGMENTED BREAKWATERS AND SAND BERM LAYOUT WHICH ALIGNS WITH BID FORM A AND BID FORM B.
2. CONTRACTOR SHALL VERIFY/DETERMINE CHANGES IN FIELD CONDITIONS BASED ON PRE-CONSTRUCTION SURVEY TO BE COMPLETED BY CONTRACTOR. OWNER RESERVES THE RIGHT TO MODIFY THE WORK BASED ON CHANGES IN FIELD CONDITIONS PRIOR TO CONTRACTOR COMMENCING WORK. SEE SPECIFICATIONS FOR DETAILS.
3. WARNING SIGNS TO BE PLACED AS NECESSARY BASED ON COORDINATION WITH U.S. COAST GUARD. SEE SHEET C-501 FOR WARNING SIGN DETAILS.

LEGEND:

- NORTHERN DIKE
- NORTHERN DIKE BORROW DITCH
- SEGMENTED BREAKWATERS AND SAND BERM (BREAKWATER, TYP)
- NO BOTTOM DISTURBANCE AREA
- OBSTRUCTION AVOIDANCE AREA
- (1) ELEVATION CONTOUR
- PERMANENT WARNING SIGNS
- LOCAL BORROW AREA (TOE, FLAT BOTTOM, SLOPE, DAYLIGHT)
- WEIR BOX LOCATION

400' 0' 400' 800'
SCALE: 1"=400'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

WETLAND CREATION, BREAKWATERS AND BORROW AREA SITE LAYOUT

Rev: REVNO
Date: 2026-09-22
M&N Project No: 210315
Designed by: NC
Cad by: PC
Drawing code:
Dwn by: GE
Reviewed by: PK
Drawing Scale:
Submitted by: MEG GOECKER
Plot scale: 1:1 (D SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
C-101
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File: P:\BR\210315\20 CADD_Active_construction set\210315C-101 ; Plotted: 9/22/2026 10:30 AM by: ESPINO, GUILLERMO ; Saved: 9/21/2026 10:16 AM by: GESPINO

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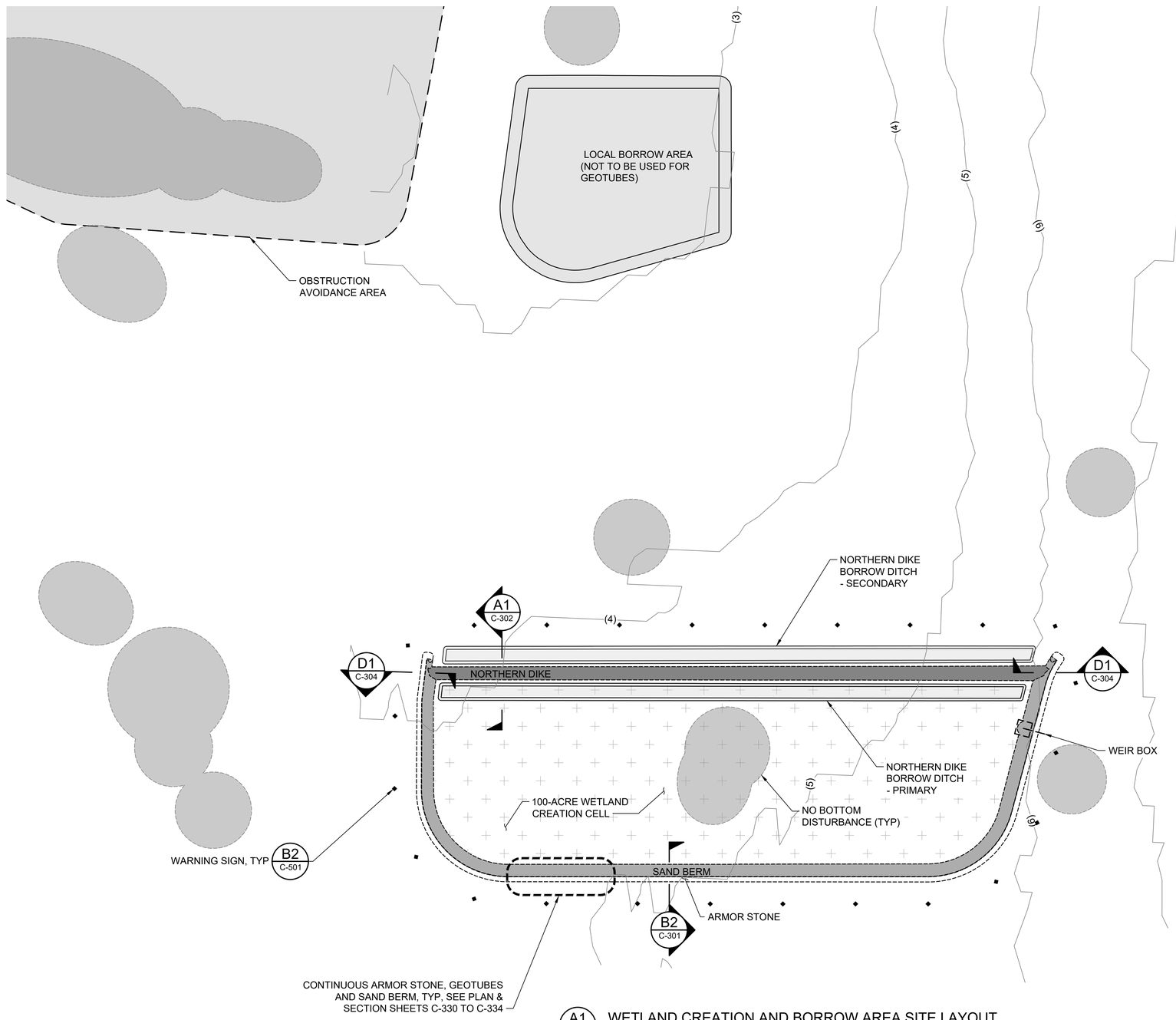

A1 C-100 WETLAND CREATION AND BORROW AREA SITE LAYOUT
SCALE: 1" = 400'

NOTES:

1. THIS LAYOUT SHOWS THE GEOTUBE-CORE SAND BERM AND REVETMENT LAYOUT WHICH ALIGNS WITH BID FORM C.
2. CONTRACTOR SHALL VERIFY/DETERMINE CHANGES IN FIELD CONDITIONS BASED ON PRE-CONSTRUCTION SURVEY TO BE COMPLETED BY CONTRACTOR. OWNER RESERVES THE RIGHT TO MODIFY THE WORK BASED ON CHANGES IN FIELD CONDITIONS PRIOR TO CONTRACTOR COMMENCING WORK. SEE SPECIFICATIONS FOR DETAILS.
3. WARNING SIGNS TO BE PLACED AS NECESSARY BASED ON COORDINATION WITH U.S. COAST GUARD. SEE SHEET C-501 FOR WARNING SIGN DETAILS.

LEGEND:

- NORTHERN DIKE
- NORTHERN DIKE BORROW DITCH
- SAND BERM / ARMOR STONE — CONTINUOUS ARMOR STONE, GEOTUBES & SAND BERM
- NO BOTTOM DISTURBANCE AREA
- OBSTRUCTION AVOIDANCE AREA
- (1) ELEVATION CONTOUR
- PERMANENT WARNING SIGNS
- TOE / FLAT BOTTOM / SLOPE / DAYLIGHT — LOCAL BORROW AREA
- WEIR BOX LOCATION

400' 0' 400' 800'
SCALE: 1"=400'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

WETLAND CREATION, GEOTUBES AND BORROW AREA SITE LAYOUT

Rev. REVNO
Date: 2026-09-22
M&N Project No. 210315
Drawing code:
Plot scale: 1:1 (0 SHEET)
Drawing Scale:
Designed by: NC
Cad by: PC
Own by: GE
Reviewed by: PK
Submitted by: MEG GOECKER

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-102
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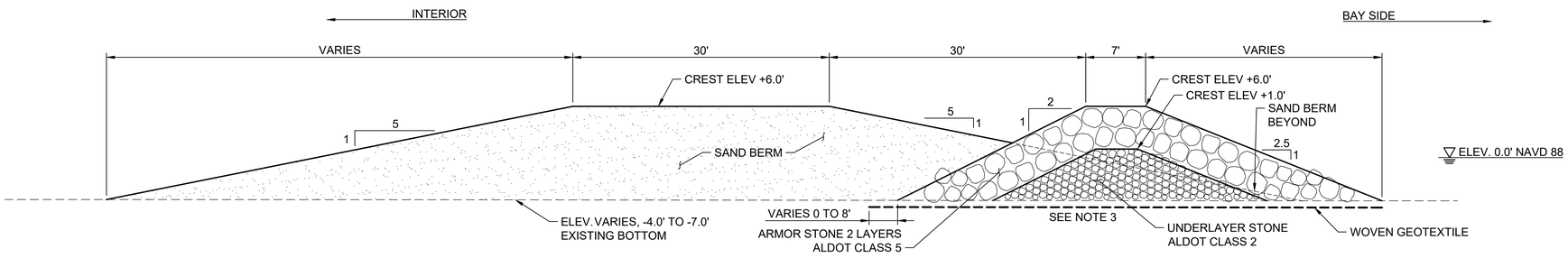
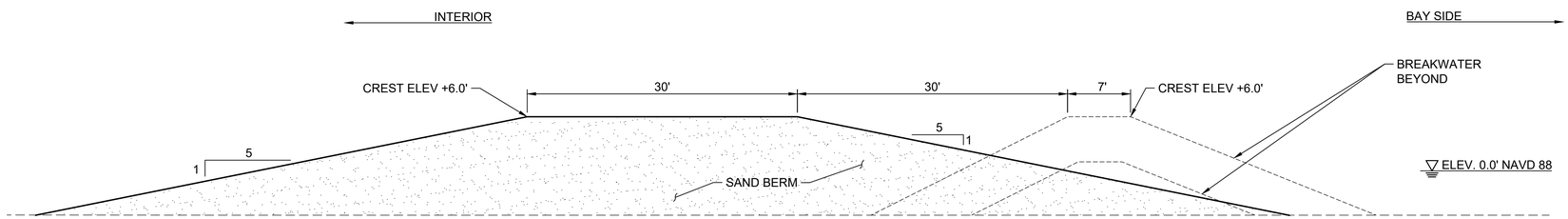
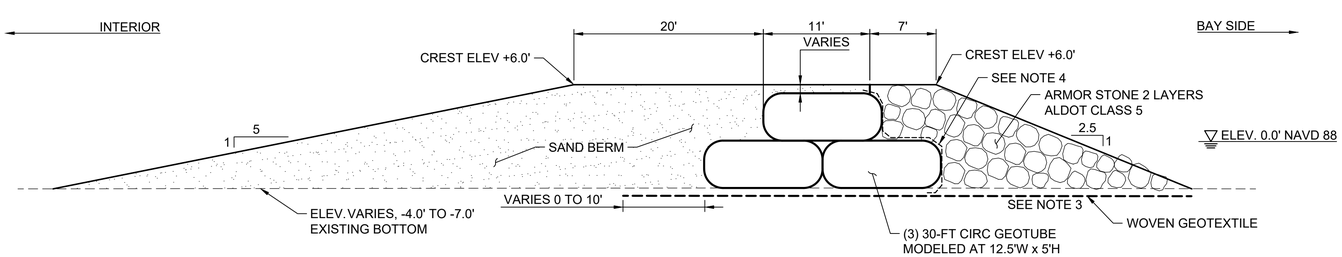


D2 / C-101 SECTION VIEW - BREAKWATER
SCALE: 1" = 8'



C2 / C-101 SECTION VIEW - GAP
SCALE: 1" = 8'



B2 / C-301 SECTION VIEW - GEOTUBES
SCALE: 1" = 8'

NOTES:

1. WOVEN GEOTEXTILE UNDER BREAKWATER OR REVETMENT AND GEOTUBES SHALL BE 60' WIDE, MEASURED PERPENDICULAR TO BREAKWATER / REVETMENT PRIMARY DIRECTION. ROLL DIRECTION SHALL BE PARALLEL WITH BREAKWATER / REVETMENT PRIMARY DIRECTION.
2. GEOTUBE SHAPE AND DIMENSIONS ARE APPROXIMATE BASED ON 2 CY/LF OF FILL.
3. BEDDING STONE 1.0' THICK TO BE PLACED UNDER THE UNDERLAYER AND ARMORSTONE AFTER PLACEMENT OF GEOTEXTILE
4. CONTRACTOR SHALL PROTECT THE GEOTUBES FROM DAMAGE DURING CONSTRUCTION. SEE SECTION 532 OF DIVISION 5 CONSTRUCTION SPECIFICATIONS FOR REQUIREMENTS.

8' 0' 8' 16'
SCALE: 1"=8'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

WETLAND CREATION
AREA TYPICAL SECTION

Designed by: NC
Date: 2026-09-22
Rev: REV/NO
Dwn by: GE
Cad by: PC
M&N Project No. 210315
Reviewed by: PK
Drawing code:
Submitted by: MEG GOECKER
Drawing Scale: Plot scale: 1:1 (D SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
C-301
INDEX: 10 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-301, Plotted: 9/22/2026 10:32 AM by ESPINO, GUILLERMO ; Saved: 9/21/2026 6:51 PM by GESPINO

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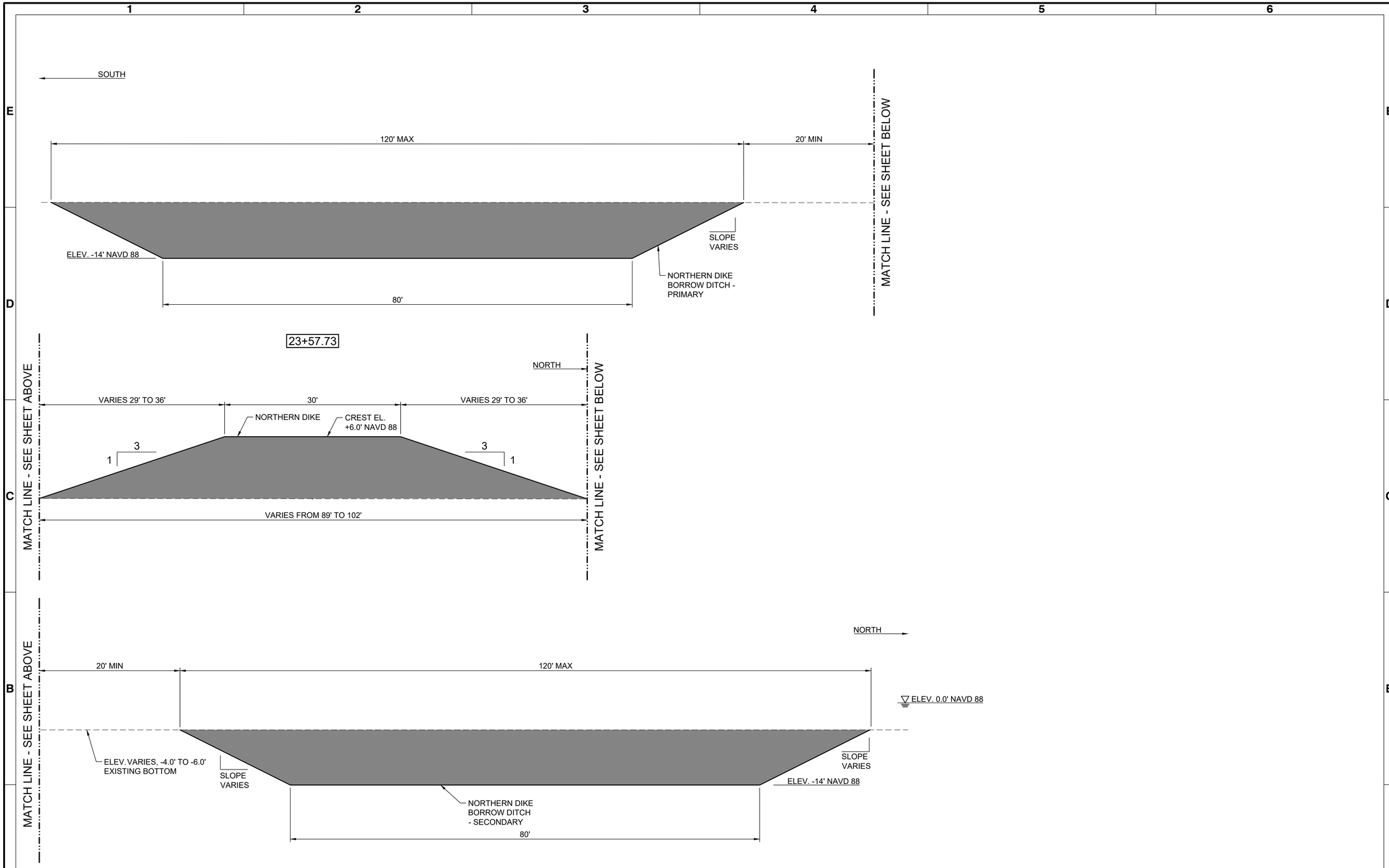

A1 / C-101 SECTION VIEW - NORTHERN DIKE
SCALE: 1" = 8'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

CONTAINMENT DIKE
TYPICAL SECTIONS (1 OF 3)

Designed by: NC
Dwn by: GE
Cad by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Date: 2026-09-22
Rev: REVNO
M&N Project No: 210315
Drawing code:
Drawing Scale: 1:1 (D SHEET)
Plot scale: 1:1 (D SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL
9/22/2026

Sheet Reference No.
C-302
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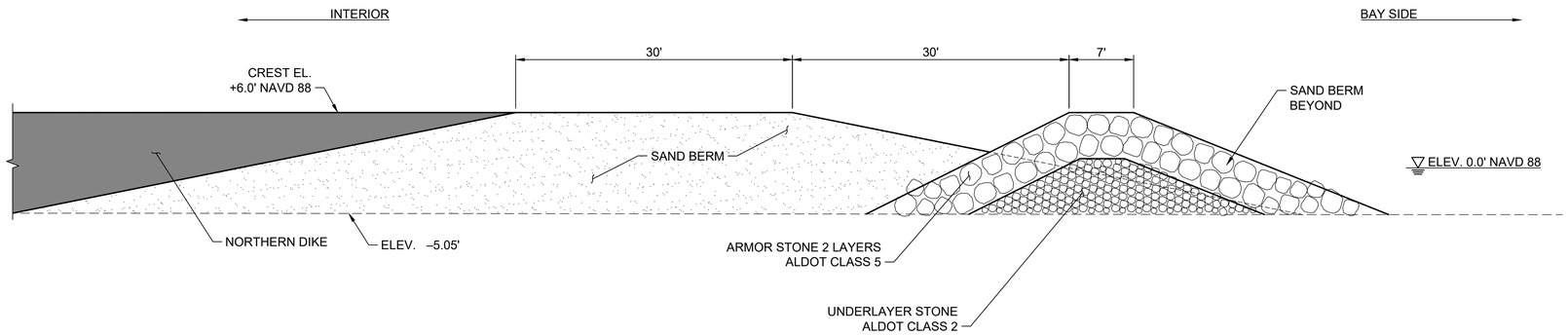


D1 / C-303 SECTION VIEW - NORTHERN DIKE CONNECTION TO BREAKWATER

SCALE: 1" = 8'

8' 0' 8' 16'

SCALE: 1"=8'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

CONTAINMENT DIKE
TYPICAL SECTIONS (2 OF 3)

Designed by: NC
Date: 2026-09-22
Rev: REVNO
Dwn by: GE
Ckd by: PC
M&N Project No. 210315
Reviewed by: PK
Drawing code:
Submitted by: MEG GOECKER
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

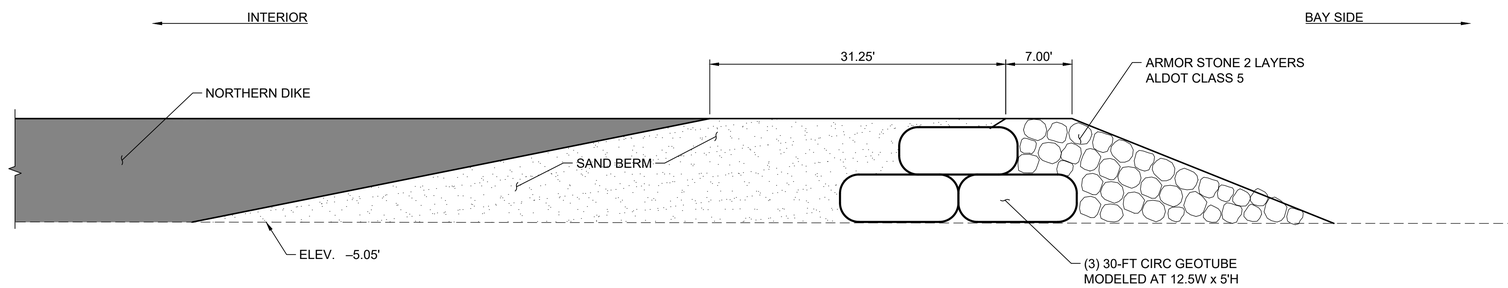
ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-303
INDEX: 12 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-303 ; Plotted: 9/22/2026 10:33 AM by ESPINO, GUILLERMO ; Saved: 9/21/2026 6:29 PM by GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



D1 / C-304 SECTION VIEW - NORTHERN DIKE CONNECTION TO GEOTUBE
SCALE: 1" = 8'

8' 0' 8' 16'
SCALE: 1"=8'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

CONTAINMENT DIKE
TYPICAL SECTIONS (3 OF 3)

Designed by: NC
Date: 2026-09-22
Rev: REVNO
Dwn by: GE
Ckd by: PC
M&N Project No: 210315
Reviewed by: PK
Drawing code:
Submitted by: MEG GOECKER
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-304
INDEX: 13 OF 57

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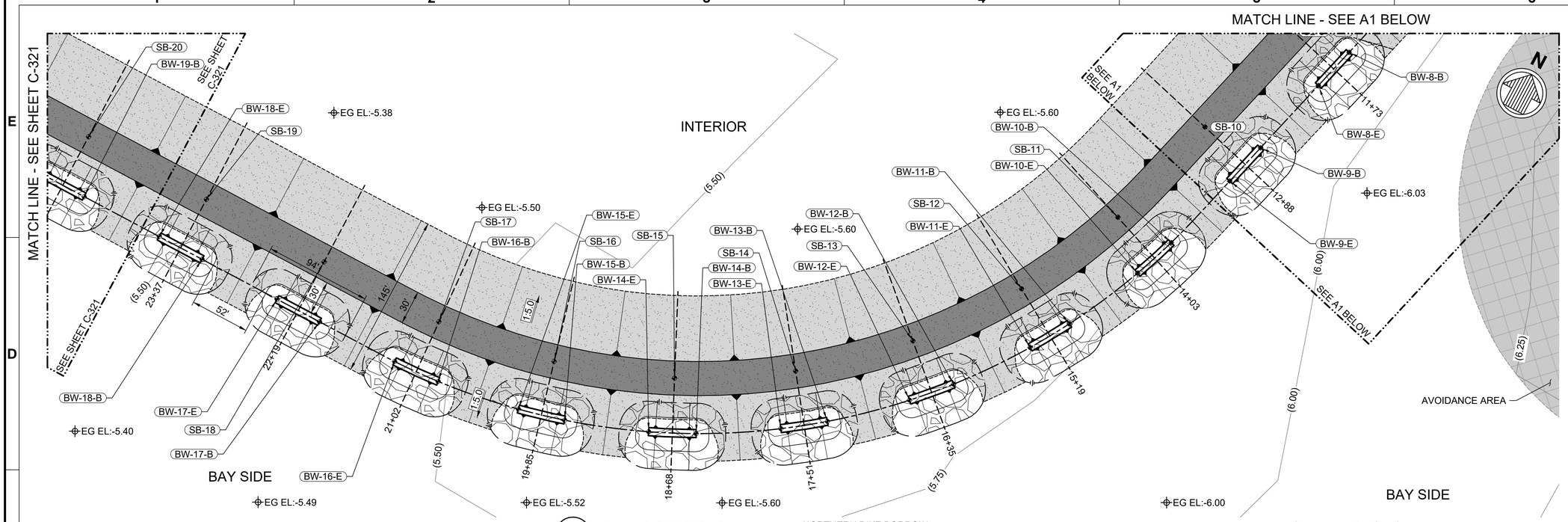
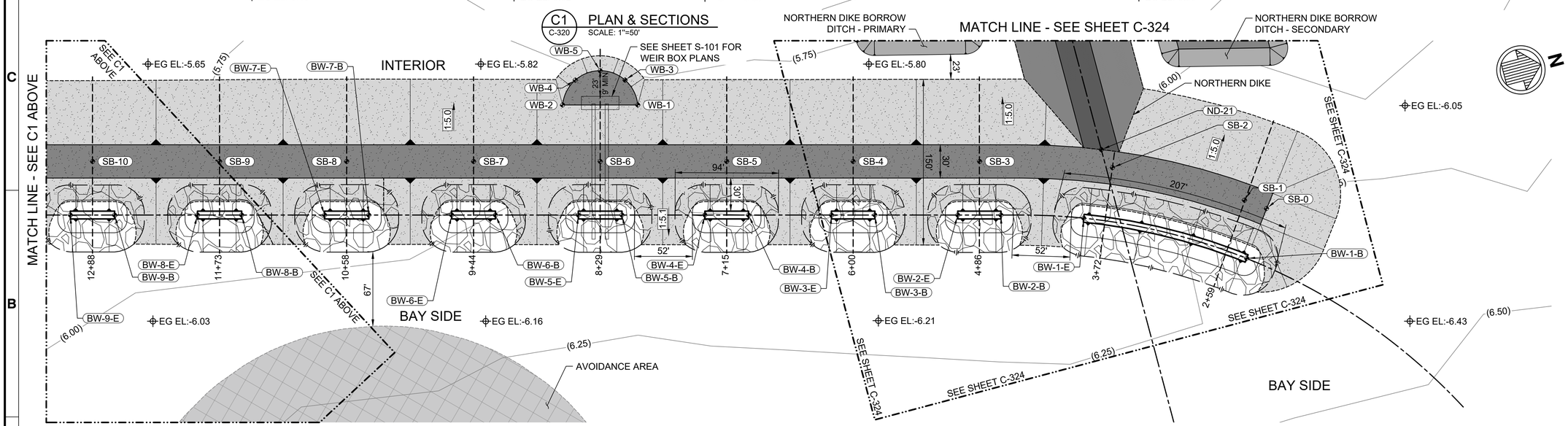
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



C1 C-320 PLAN & SECTIONS

SCALE: 1"=50'

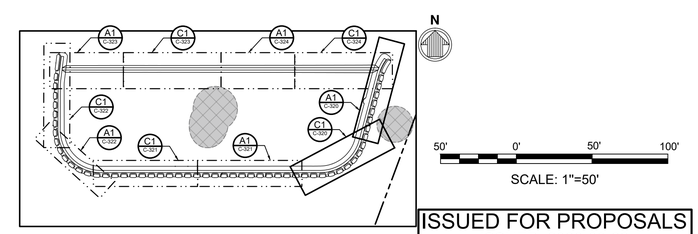


A1 C-320 PLAN & SECTIONS

SCALE: 1"=50'

LEGEND:

- SLOPE PATTERN, CONTOUR +1', CREST, TOE — BREAKWATER
- SLOPE PATTERN, CREST, TOE — SAND BERM
- SECTION LINE
- ALIGNMENT
- TOE, CREST — NORTHERN DIKE
- BOTTOM, SLOPE PATTERN — BORROW DITCH
- (SB-##) CENTER OF SAND BERM WP
- (BW-##-B) BEGINNING OF BREAKWATER WP
- (BW-##-E) ENDING OF BREAKWATER WP
- (BDS-R-#) BORROW DITCH SECONDARY RIGHT TOE WP
- (BDS-L-#) BORROW DITCH SECONDARY LEFT TOE WP
- (ND-##) CENTER OF NORTHERN DIKE WP
- (BDP-L-##) BORROW DITCH PRIMARY LEFT TOE WP
- (BDP-R-##) BORROW DITCH PRIMARY RIGHT TOE WP
- ###+## ALIGNMENT STATION
- (WB-#) WEIR BOX GRADED SAND PAD



KEY PLAN

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER PLAN & SECTIONS (1 OF 5)

Rev.	REVNO
Date:	2026-09-22
M&N Project No:	210315
Drawing code:	
Drawing Scale:	1:1 (0 SHEET)
Plot scale:	1:1 (0 SHEET)
Designed by:	NC
Cad by:	PC
Dwn by:	GE
Reviewed by:	PK
Submitted by:	MEG GOECKER

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000
ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
C-320
INDEX: 14 OF 57

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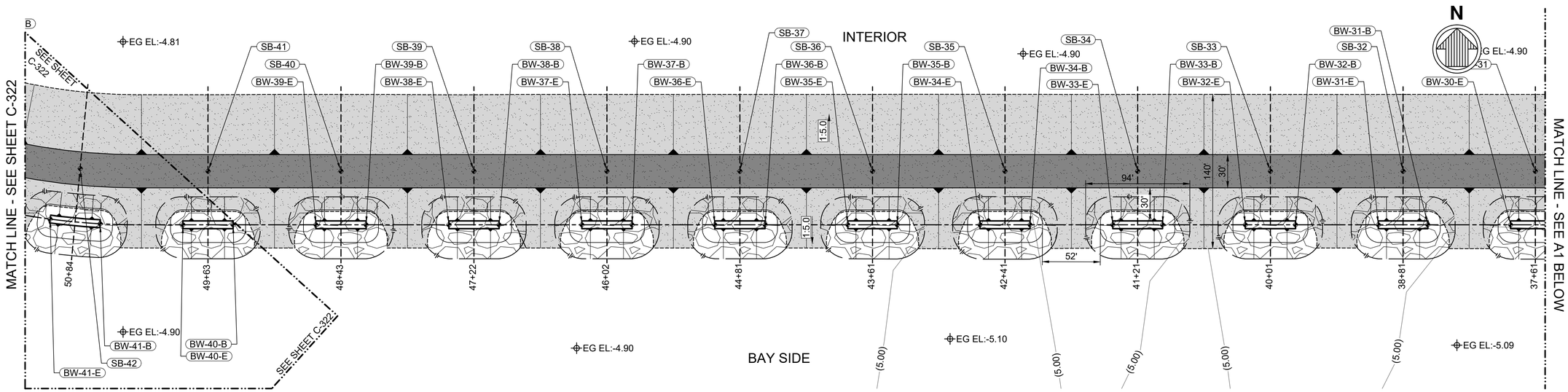
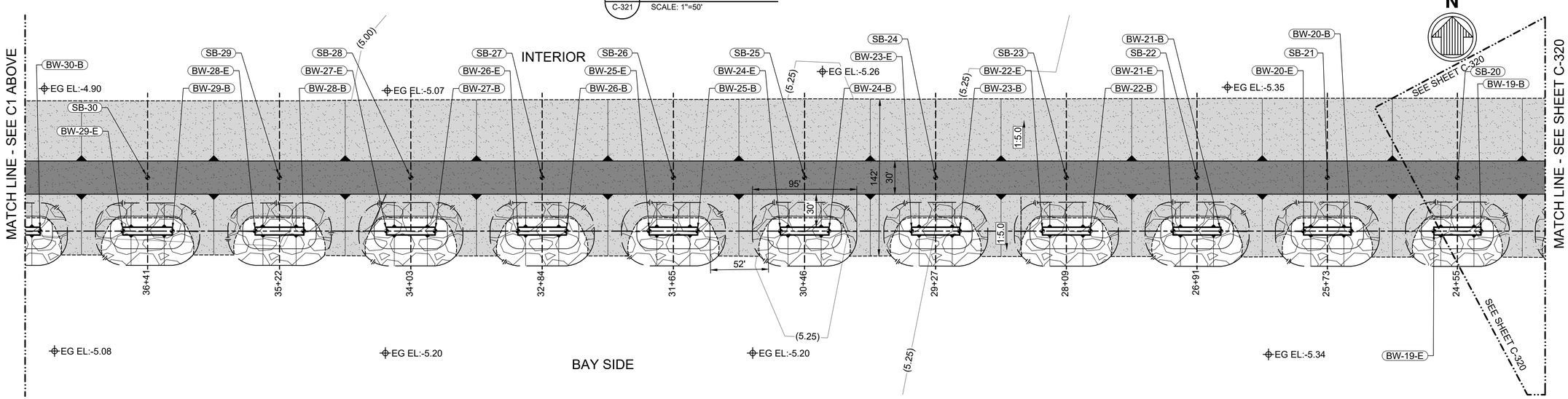
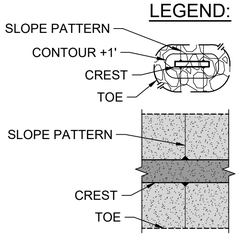


C1 PLAN & SECTIONS
C-321
SCALE: 1"=50'



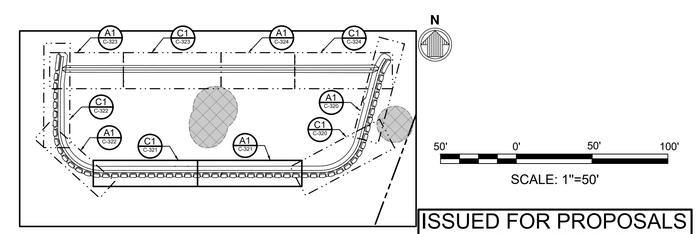
A1 PLAN & SECTIONS
C-321
SCALE: 1"=50'

LEGEND:



- SB-## — CENTER OF SAND BERM WP
- BW-##-B — BEGINNING OF BREAKWATER WP
- BW-##-E — ENDING OF BREAKWATER WP
- BDS-R-# — BORROW DITCH SECONDARY RIGHT TOE WP
- BDS-L-# — BORROW DITCH SECONDARY LEFT TOE WP
- ND-## — CENTER OF NORTHERN DIKE WP
- BDP-L-## — BORROW DITCH PRIMARY LEFT TOE WP
- BDP-R-## — BORROW DITCH PRIMARY RIGHT TOE WP

###+## — ALIGNMENT STATION



SCALE: 1"=50'

KEY PLAN

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER PLAN & SECTIONS (2 OF 5)

Rev.	REVNO
Date: 2026-09-22	M&N Project No. 210315
Drawing code:	
Drawing Scale: 1:1 (D SHEET)	Plot scale: 1:1 (D SHEET)

Designed by: NC
Dwn by: GE
Ckd by: PC
Reviewed by: PK
Submitted by: MEG GOECKER

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

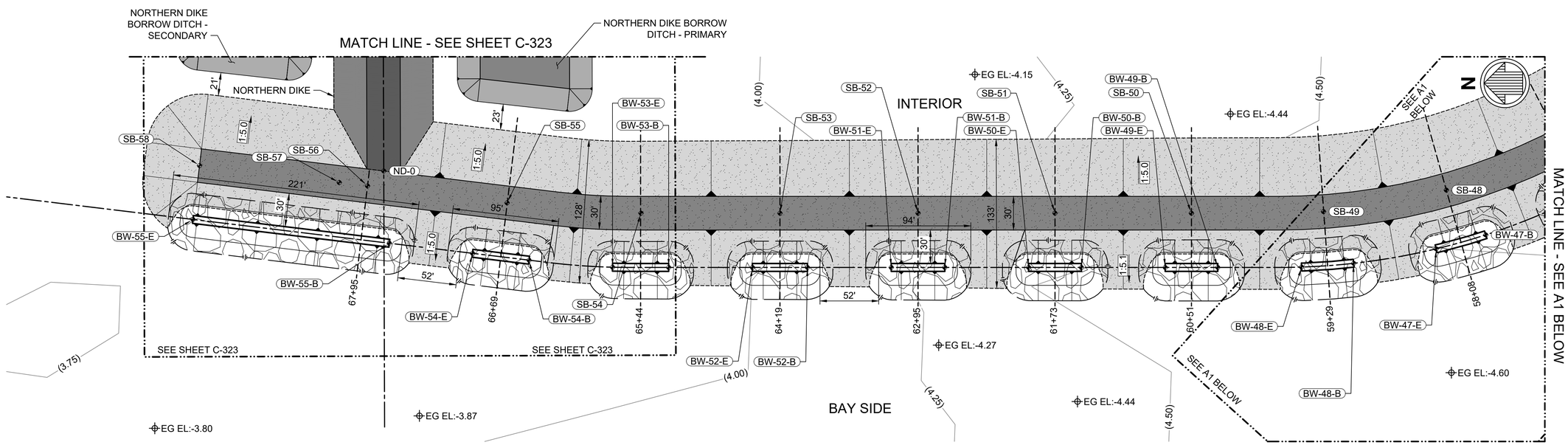
ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

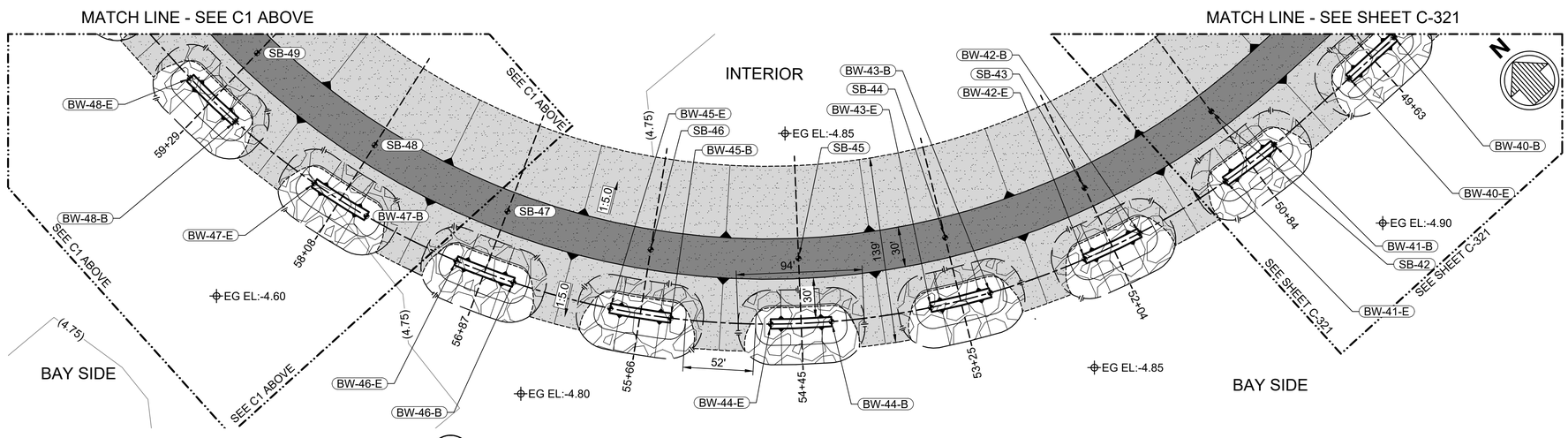
Sheet Reference No.
C-321
INDEX: 15 OF 57

File: P:\BR\210315\00 CADD_Active_construction set\210315C-320 ; Plotted: 9/22/2026 10:36 AM by ESPINO, GUILLERMO ; Saved: 8/31/2026 1:05 PM by DPINZON

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

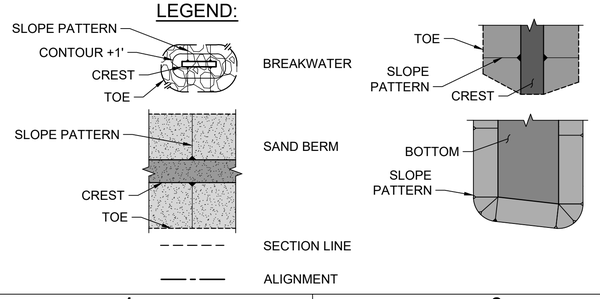


C1 C-322 PLAN & SECTIONS
SCALE: 1"=50'

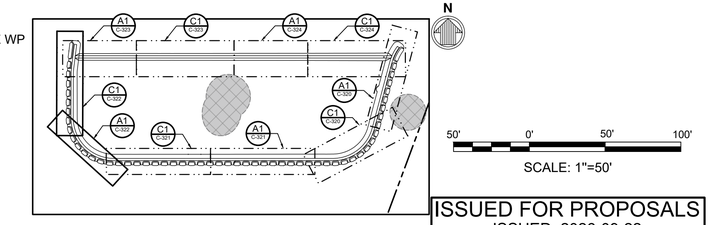


A1 C-322 PLAN & SECTIONS
SCALE: 1"=50'

LEGEND:



- SB-## — CENTER OF SAND BERM WP
- BW-##-B — BEGINNING OF BREAKWATER WP
- BW-##-E — ENDING OF BREAKWATER WP
- BDS-R-# — BORROW DITCH SECONDARY RIGHT TOE WP
- BDS-L-# — BORROW DITCH SECONDARY LEFT TOE WP
- ND-## — CENTER OF NORTHERN DIKE WP
- BDP-L-## — BORROW DITCH PRIMARY LEFT TOE WP
- BDP-R-## — BORROW DITCH PRIMARY RIGHT TOE WP
- ###+## — ALIGNMENT STATION
- WB-# — WEIR BOX GRADED SAND PAD



SCALE: 1"=50'

KEY PLAN

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER PLAN & SECTIONS (3 OF 5)

Rev:	REVNO
Date:	2026-09-22
M&N Project No.	210315
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (0 SHEET)
Designed by:	NC
Dwn by:	GE
Ckd by:	PC
Reviewed by:	PK
Submitted by:	MEG COECKER

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL
9/22/2026

Sheet Reference No.
C-322
INDEX: 16 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-320 - Plotted: 9/22/2026 10:37 AM by ESPINO, GUILLERMO - Saved: 8/31/2026 1:05 PM by DPINZON

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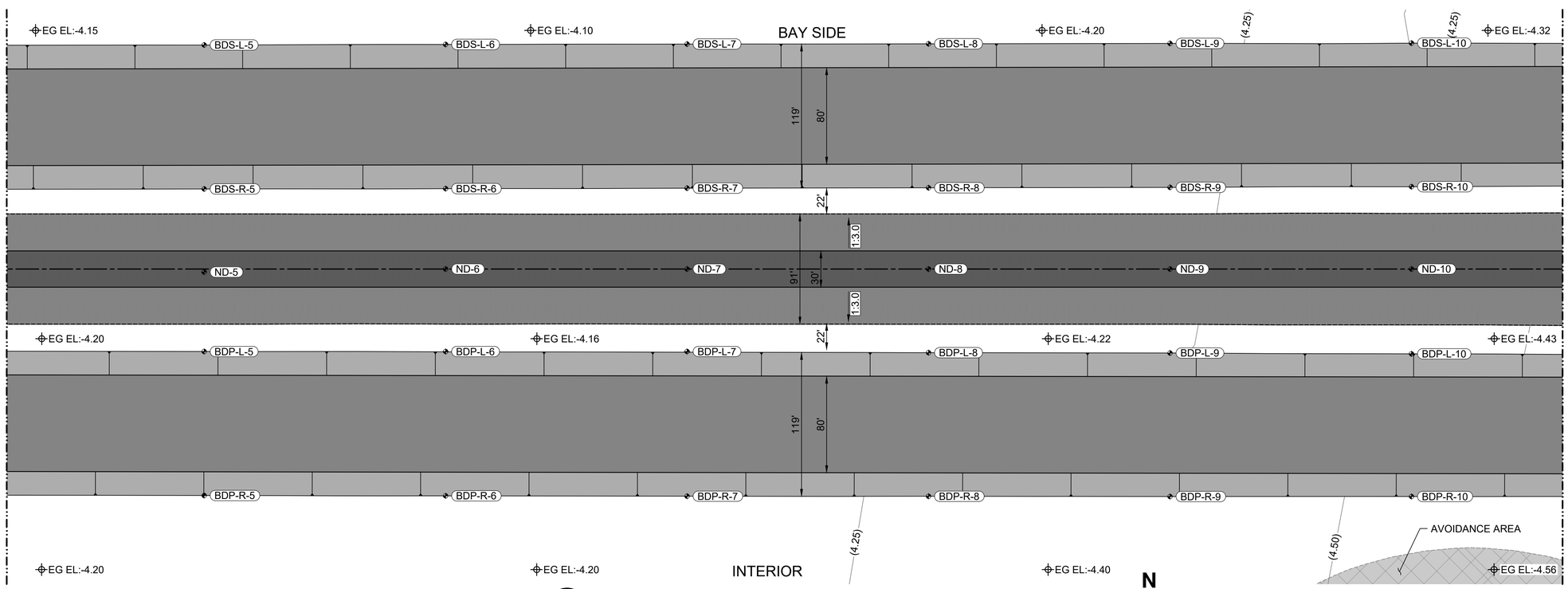

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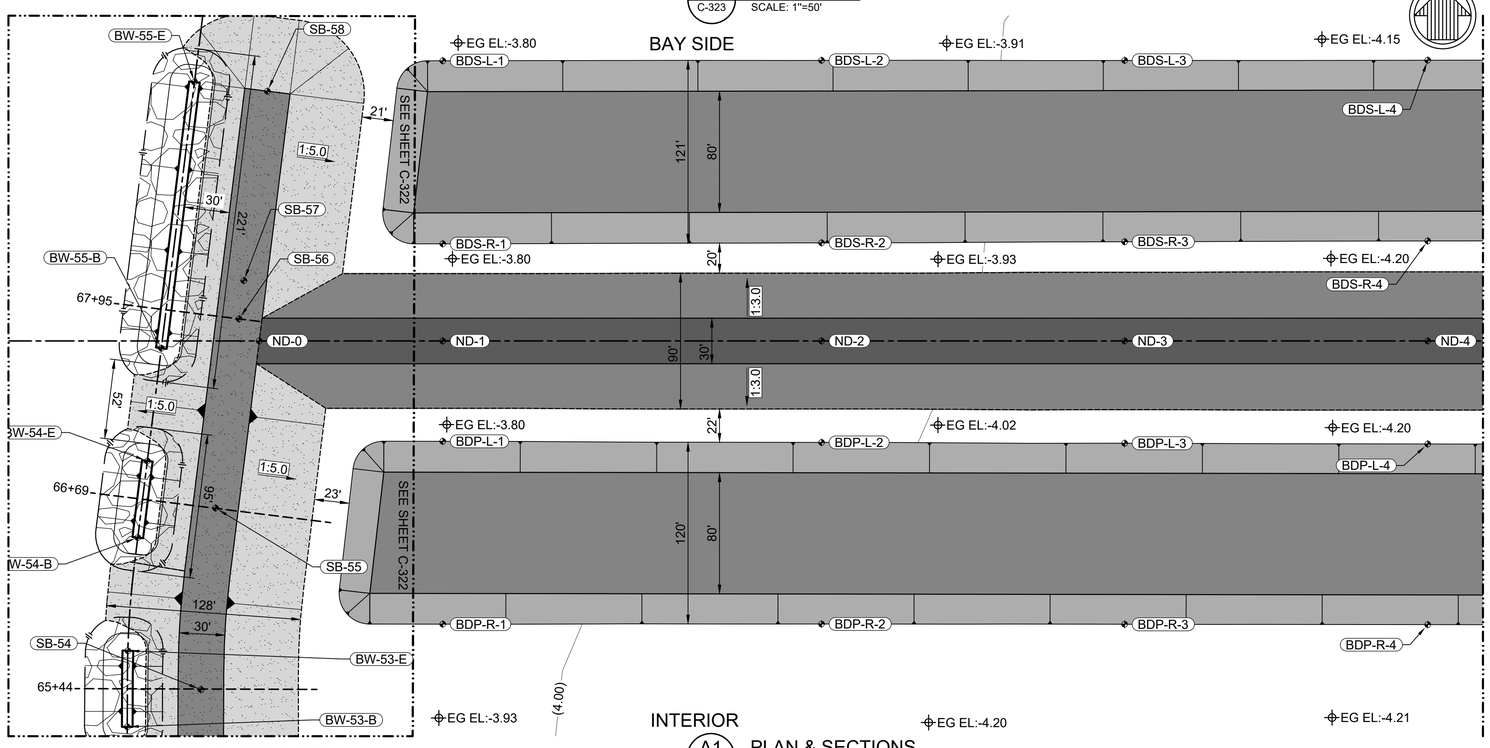
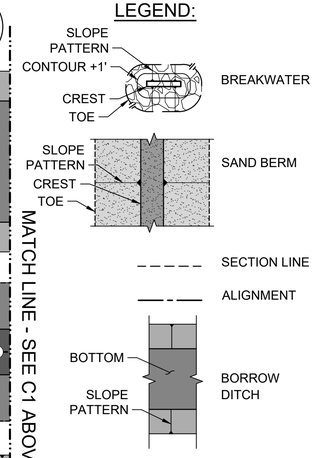
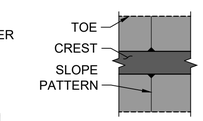
SCALE: 1"=50'



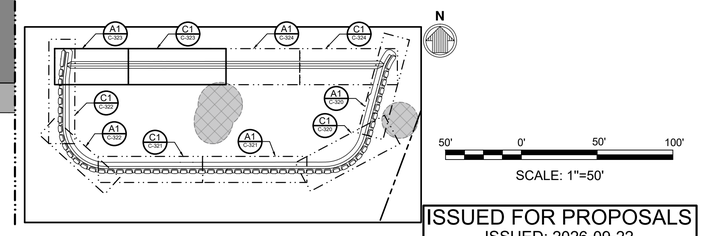
A1 C-323 PLAN & SECTIONS
SCALE: 1"=50'

LEGEND:





- SB-## — CENTER OF SAND BERM WP
- BW-##-B — BEGINNING OF BREAKWATER WP
- BW-##-E — ENDING OF BREAKWATER WP
- BDS-R-# — BORROW DITCH SECONDARY RIGHT TOE WP
- BDS-L-# — BORROW DITCH SECONDARY LEFT TOE WP
- ND-## — CENTER OF NORTHERN DIKE WP
- BDP-L-## — BORROW DITCH PRIMARY LEFT TOE WP
- BDP-R-## — BORROW DITCH PRIMARY RIGHT TOE WP
- ###+## — ALIGNMENT STATION



SCALE: 1"=50'

KEY PLAN

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER PLAN & SECTIONS (4 OF 5)

Rev.	REVNO
Date: 2026-09-22	M&N Project No. 210315
Drawing code:	Drawing Scale: Plot scale: 1:1 (0 SHEET)
Reviewed by: PK	Submitted by: MEG GOECKER
Designed by: NC	Dwn by: GE / Ckd by: PC

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-323
INDEX: 17 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-320 - Plotted: 9/22/2026 10:38 AM by ESPINO, GUILLERMO - Saved: 8/31/2026 1:05 PM by DPINZON

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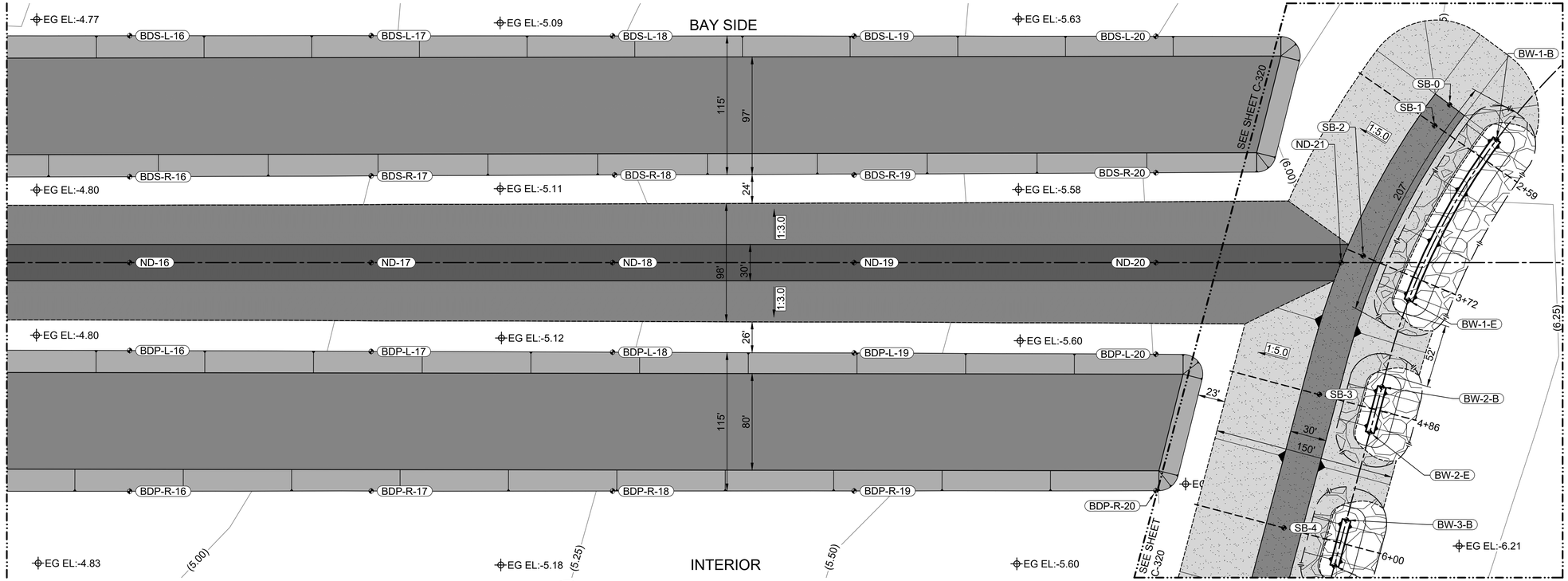
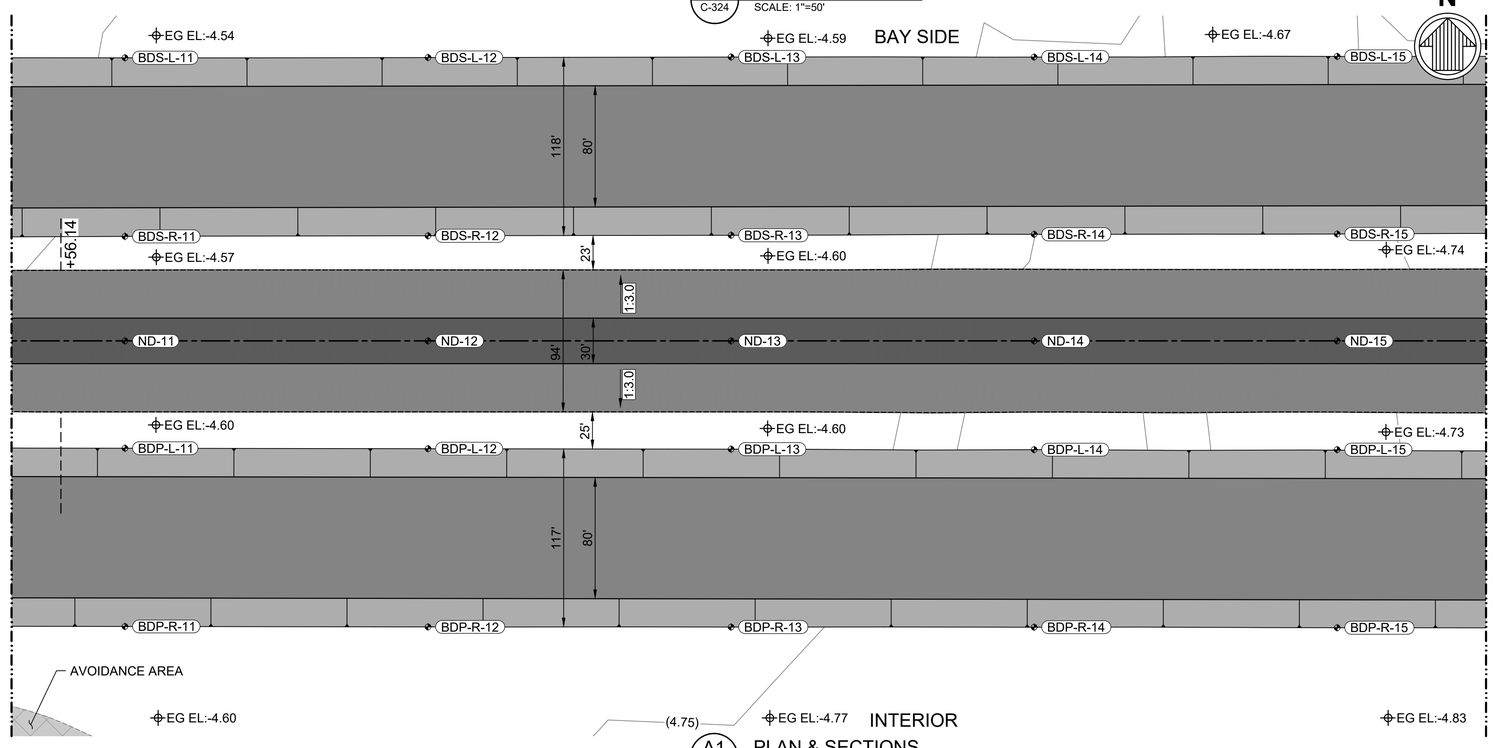


C1 / C-324 PLAN & SECTIONS
SCALE: 1"=50'



A1 / C-324 PLAN & SECTIONS
SCALE: 1"=50'

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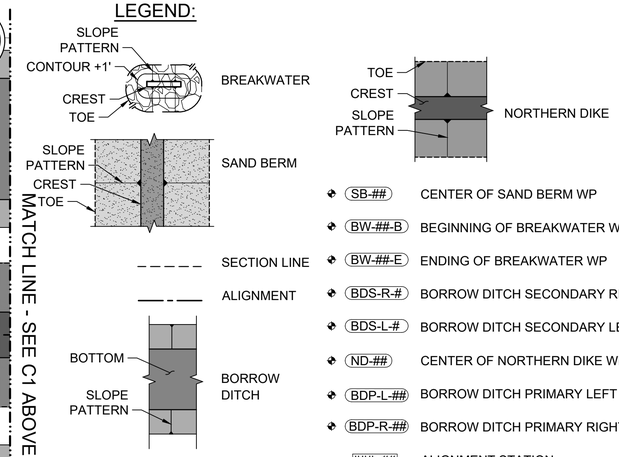
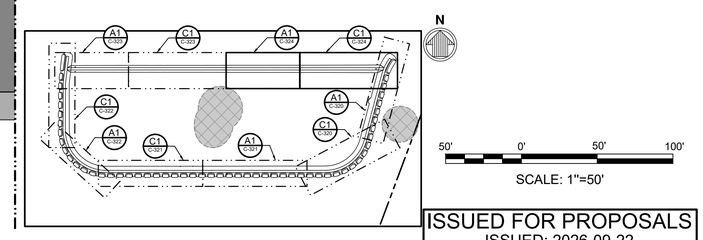




SCALE: 1"=50'

KEY PLAN

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER PLAN & SECTIONS (5 OF 5)

Designed by: NC	Date: 2026-09-22
Dwn by: GE	Ckd by: PC
Reviewed by: PK	Drawing code:
Submitted by: MEG GOECKER	Drawing Scale:
Plot scale: 1:1 (D SHEET)	Rev: REVNO
M&N Project No. 210315	

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

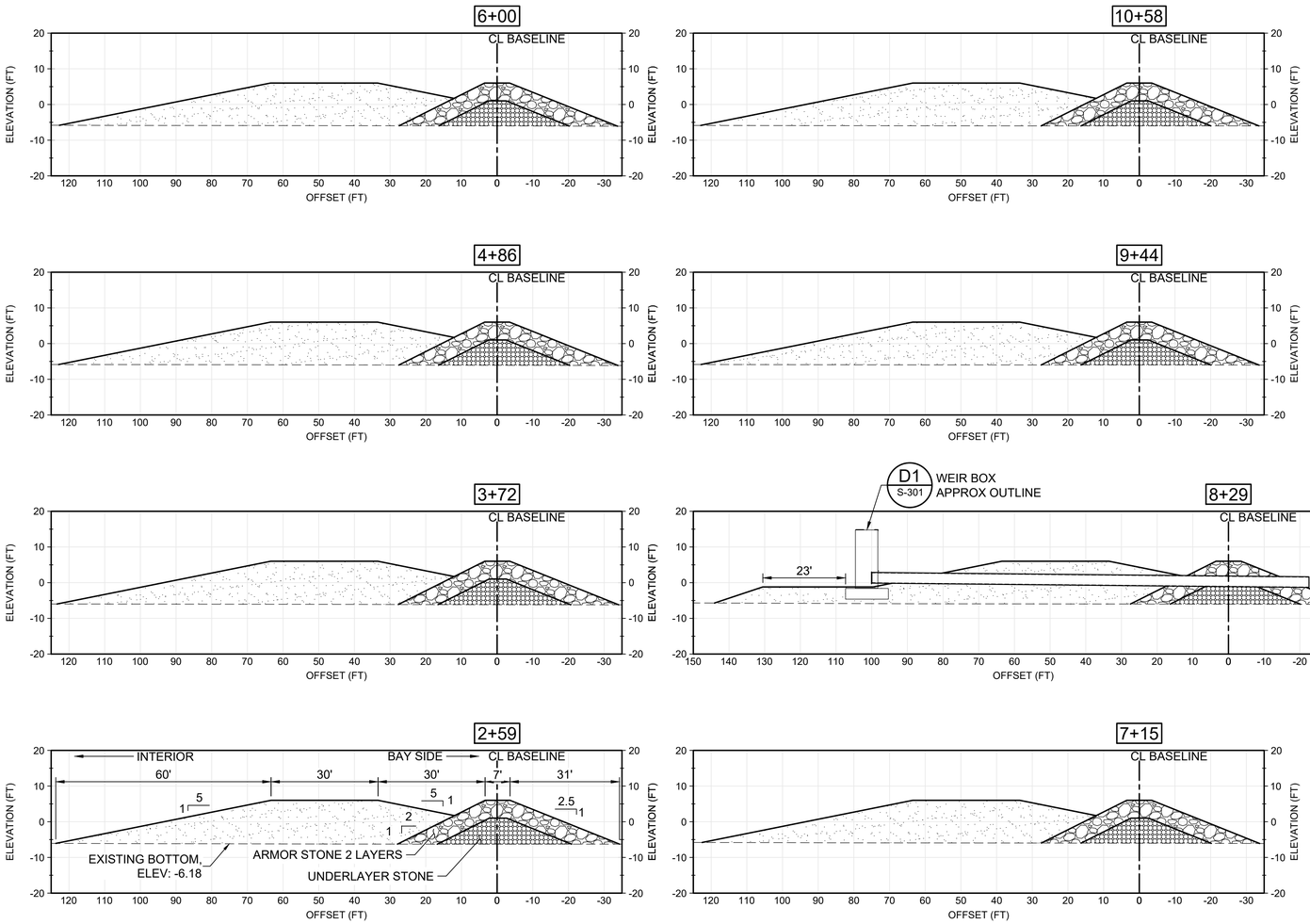
ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-324
INDEX: 18 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-320 - Plotted: 9/22/2026 10:38 AM by: ESPINO, GUILLERMO - Saved: 8/31/2026 1:05 PM by: DPINZON

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



LEGEND:

- ARMOR STONE
- UNDERLAYER STONE
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. UNDERLAYER STONE SHALL BE ALDOT CLASS 2

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER SECTIONS (1 OF 5)

Designed by: NC	Date: 2026-09-22	Rev: REVNO	
Dwn by: GE	Ckd by: PC	M&N Project No. 210315	
Reviewed by: PK	Drawing code:		
Submitted by: MEG COECKER	Drawing Scale: Plot scale: 1:1 (D SHEET)		

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-325
INDEX: 19 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-325 ; Plotted: 9/22/2026 10:39 AM by ESPINO, GUILLERMO ; Saved: 8/31/2026 1:03 PM by DPINZON

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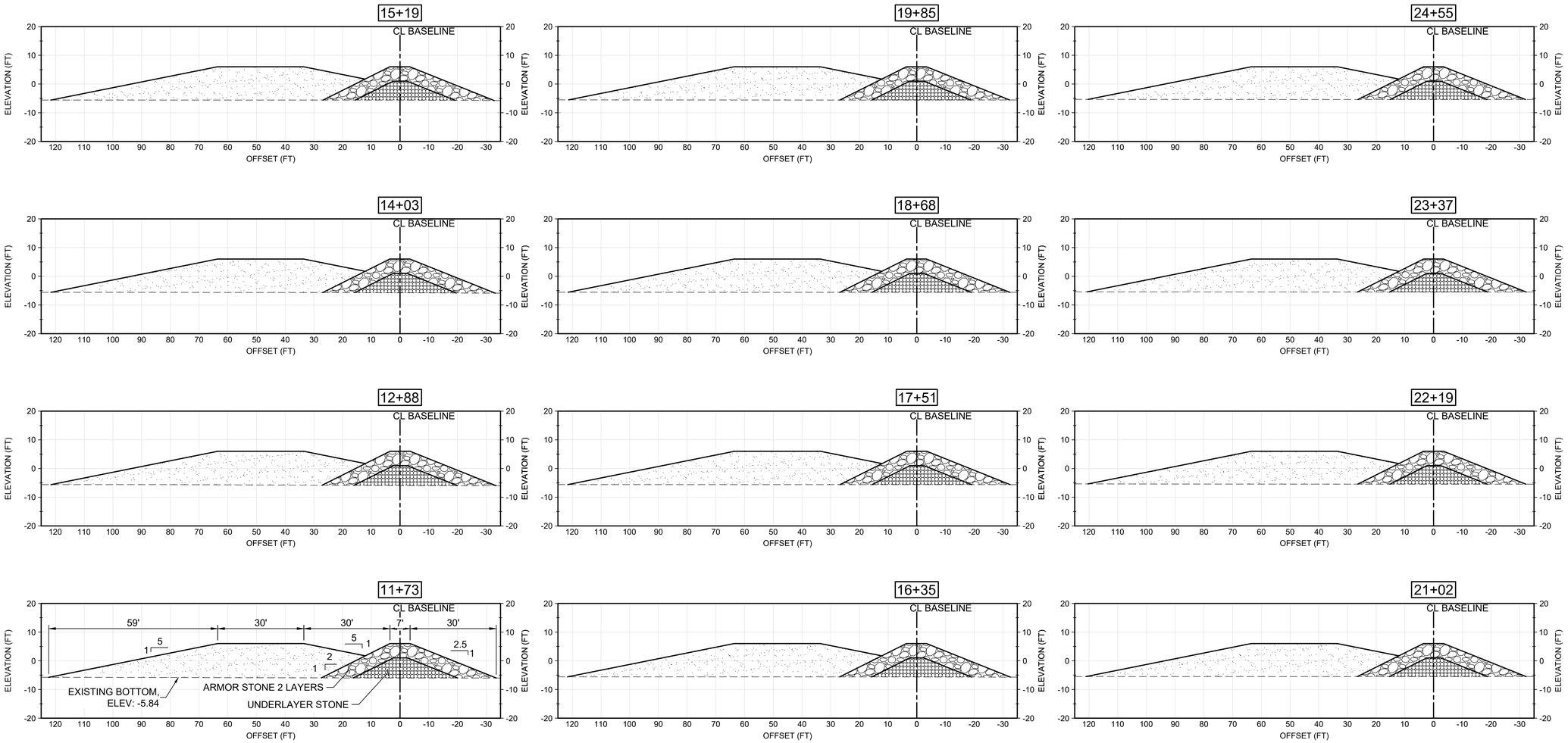

LEGEND:

- ARMOR STONE
- UNDERLAYER STONE
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. UNDERLAYER STONE SHALL BE ALDOT CLASS 2

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER SECTIONS (2 OF 5)

Designed by: NC	Date: 2026-09-22		Rev: REVNO
Dwn by: GE	Ckd by: PC	M&N Project No. 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG COECKER		Drawing Scale: 1:1 (0 SHEET)	
		Plot scale:	

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-326
INDEX: 20 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-325 ; Plotted: 9/22/2026 10:39 AM by ESPINO, GUILLERMO ; Saved: 8/31/2026 1:03 PM by DPINIZON

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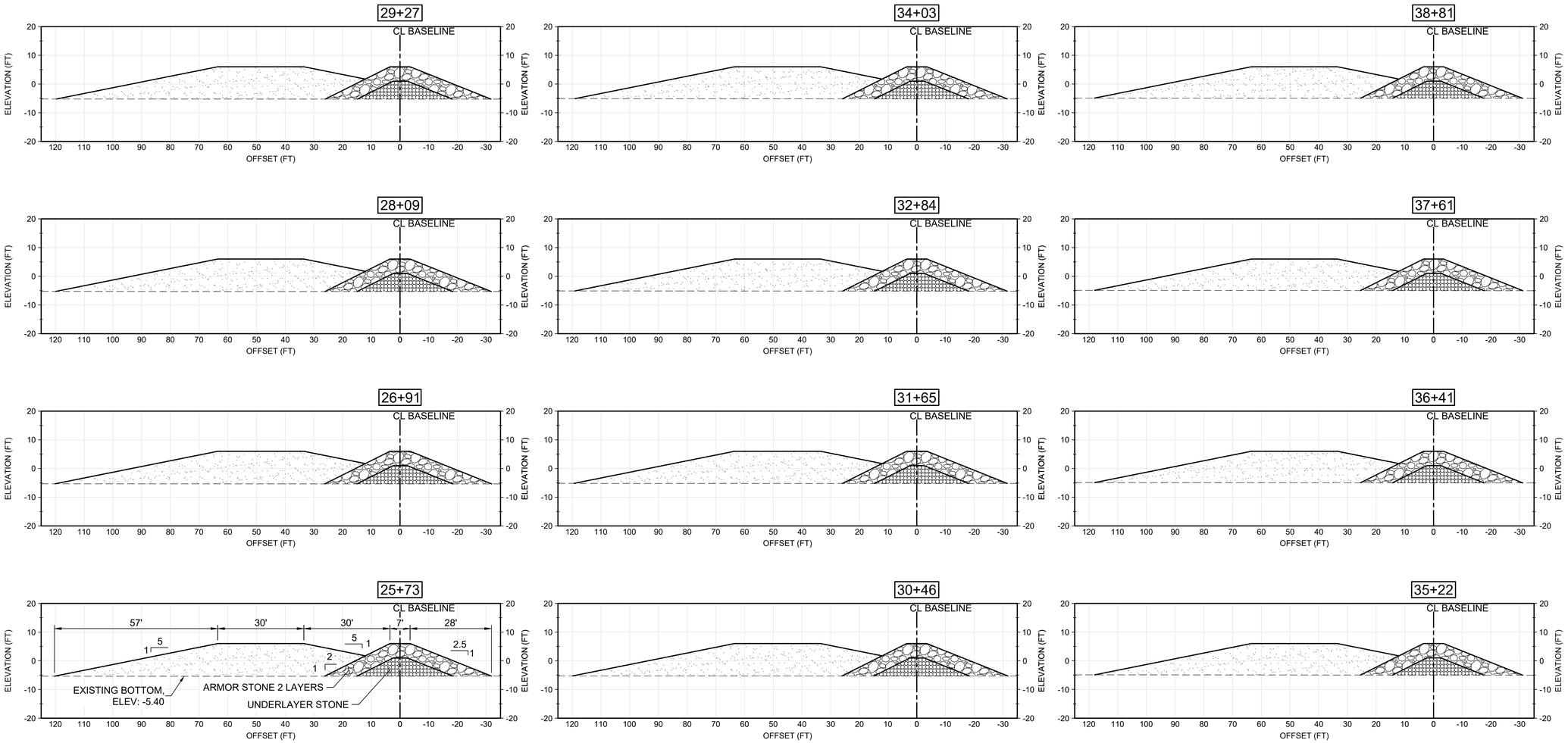

LEGEND:

- ARMOR STONE
- UNDERLAYER STONE
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. UNDERLAYER STONE SHALL BE ALDOT CLASS 2

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER SECTIONS (3 OF 5)

Designed by: NC	Date: 2026-09-22		Rev: REVNO
Dwn by: GE	Ckd by: PC	M&N Project No. 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG COECKER		Drawing Scale:	Plot scale: 1:1 (D SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-327
INDEX: 21 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-325 ; Plotted: 9/22/2026 10:39 AM by ESPINO, GUILLERMO ; Saved: 8/31/2026 1:03 PM by DPINIZON

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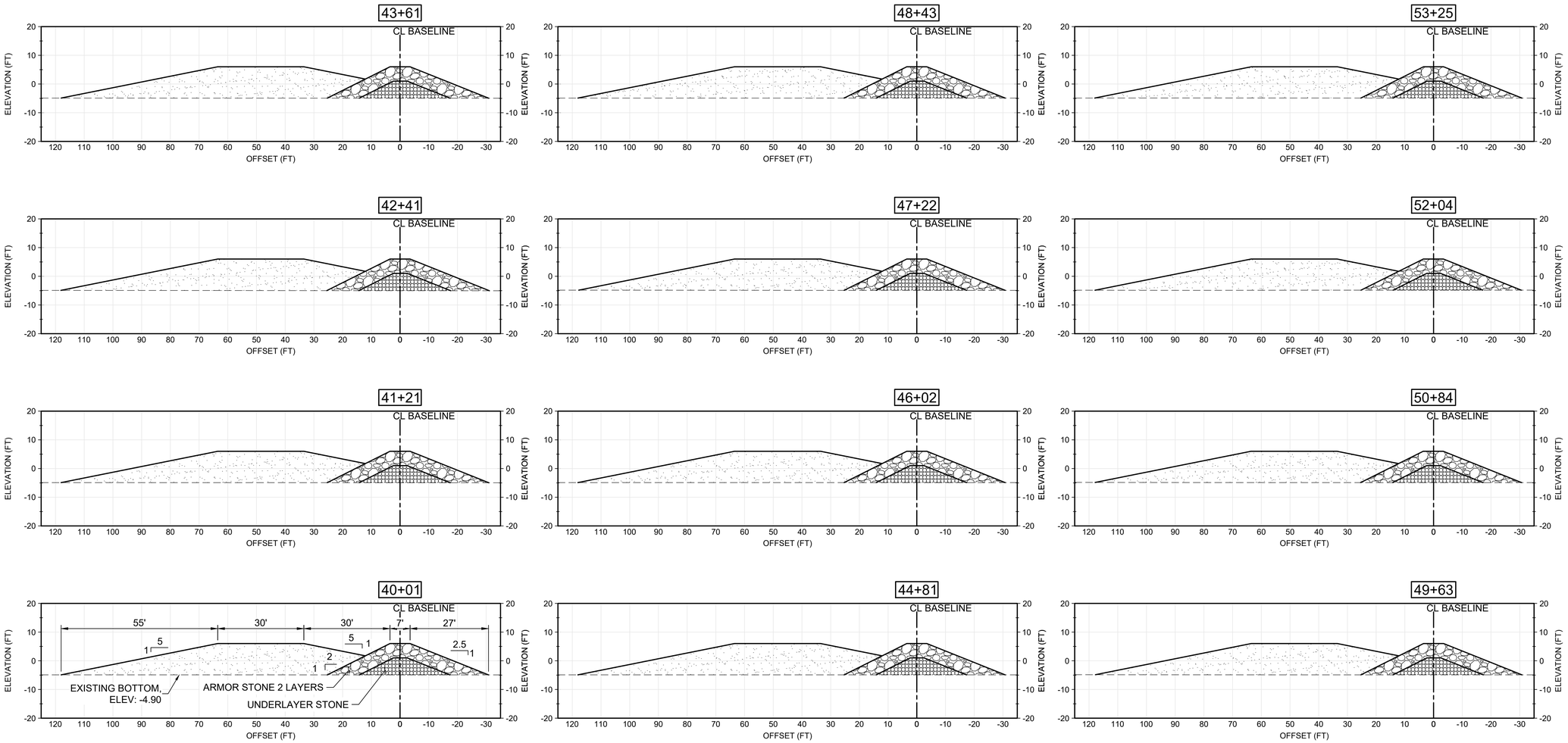


LEGEND:

- ARMOR STONE
- UNDERLAYER STONE
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. UNDERLAYER STONE SHALL BE ALDOT CLASS 2

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER SECTIONS (4 OF 5)

Designed by: NC	Date: 2026-09-22		Rev: REVNO
Dwn by: GE	Ckd by: PC	M&N Project No. 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG COECKER		Drawing Scale:	Plot scale: 1:1 (0 SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

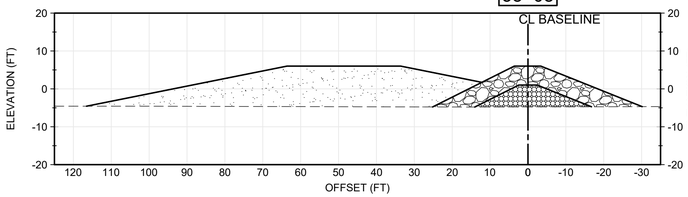
ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-328
INDEX: 22 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-325 ; Plotted: 9/22/2026 10:40 AM by ESPINO, GUILLERMO ; Saved: 8/31/2026 1:03 PM by DPINZON

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

58+08



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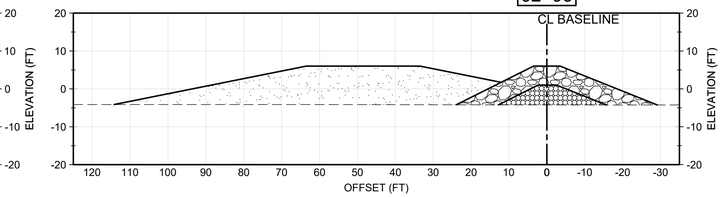

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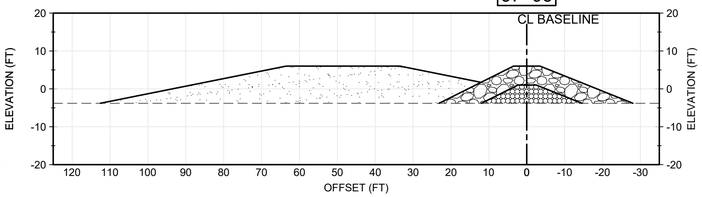
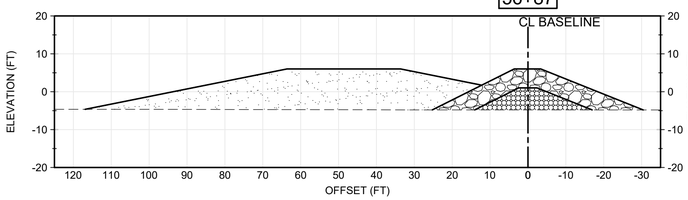
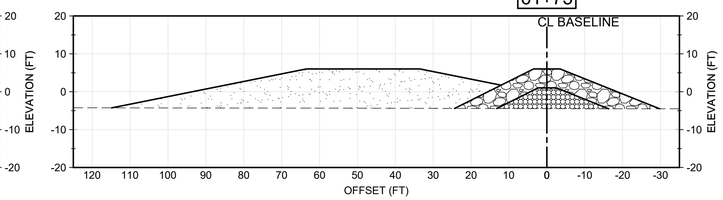


56+87



61+73



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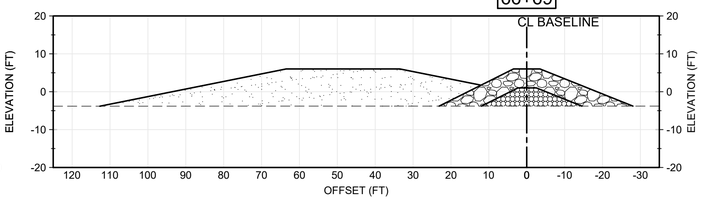

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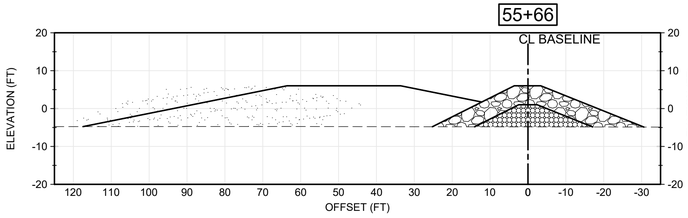
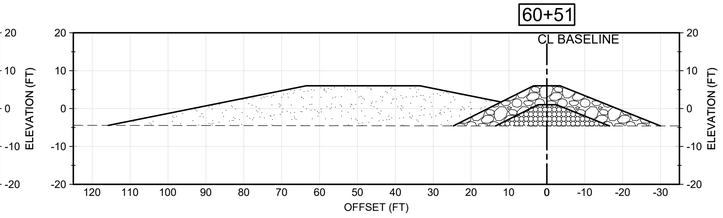


60+51



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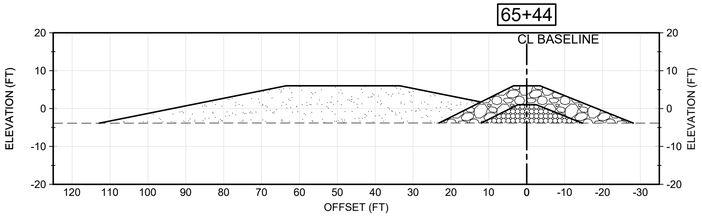

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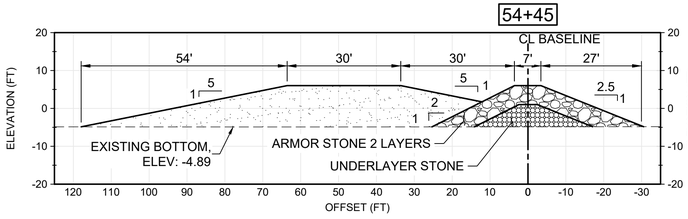
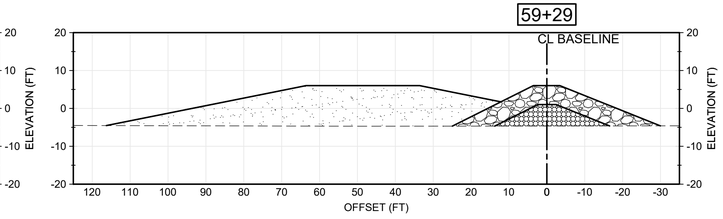
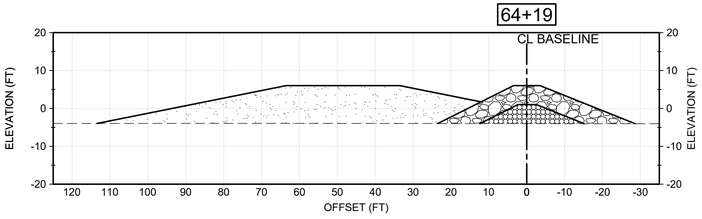


59+29



64+19



LEGEND:

- ARMOR STONE
- UNDERLAYER STONE
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. UNDERLAYER STONE SHALL BE ALDOT CLASS 2

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER SECTIONS (5 OF 5)

Designed by: NC	Date: 2026-09-22	Rev: REVNO	
Dwn by: GE	Ckd by: PC	M&N Project No. 210315	
Reviewed by: PK	Drawing code:		
Submitted by: MEG GOECKER	Drawing Scale: 1:1 (D SHEET)	Plot scale: 1:1 (D SHEET)	

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

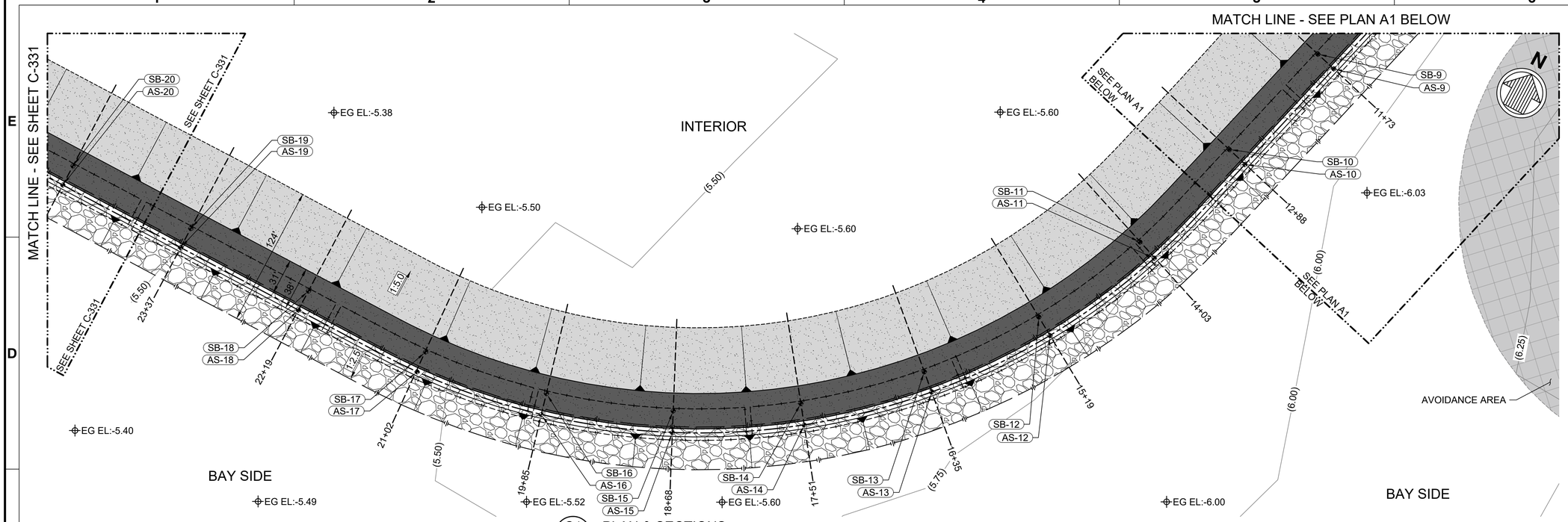
ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

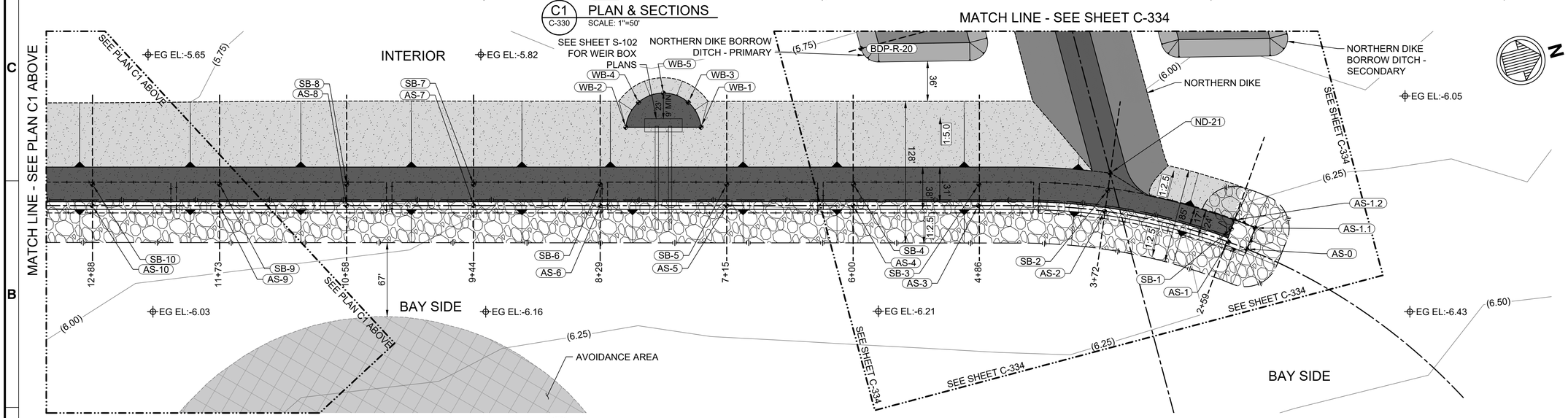
Sheet Reference No.
C-329
INDEX: 23 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-325 ; Plotted: 9/22/2026 10:40 AM by ESPINO, GUILLERMO ; Saved: 8/31/2026 1:03 PM by DPINZON

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



C1 C-330 PLAN & SECTIONS
SCALE: 1"=50'



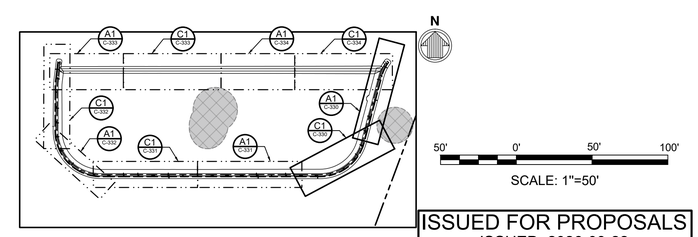
A1 C-330 PLAN & SECTIONS
SCALE: 1"=50'

LEGEND:

- GEOTUBE APPROX. EXTENT
- ARMOR STONE (CREST, SLOPE PATTERN, TOE)
- SAND BERM (TOE, SLOPE PATTERN, CREST)
- SECTION LINE
- ALIGNMENT
- NORTHERN DIKE (TOE, CREST)
- BORROW DITCH (BOTTOM, SLOPE PATTERN)
- SB-## CENTER OF SAND BERM WP
- AS-## CENTER OF ARMOR STONE CREST WP
- BDS-R-# BORROW DITCH SECONDARY RIGHT TOE WP
- BDS-L-# BORROW DITCH SECONDARY LEFT TOE WP
- ND-## CENTER OF NORTHERN DIKE WP
- BDP-L-## BORROW DITCH PRIMARY LEFT TOE WP
- BDP-R-## BORROW DITCH PRIMARY RIGHT TOE WP
- WB-# WEIR BOX GRADED SAND PAD
- ###+## ALIGNMENT STATION

NOTES:

1. SHOWN GEOTUBE APPROX EXTENT IS THE FOOTPRINT OF THE BOTTOM ROW OF GEOTUBES.



KEY PLAN

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE PLAN & SECTIONS (1 OF 5)

Designed by: NC	Date: 2026-09-22
Dwn by: GE	Ckd by: PC
Reviewed by: PK	Drawing code:
Submitted by: MEG GOECKER	Drawing Scale: 1:1 (D SHEET)
	Plot scale: 1:1 (D SHEET)
	Rev. REVNO
	M&N Project No. 210315

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-330
INDEX: 24 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-330.; Plotted: 9/22/2026 11:11 AM by ESPINO, GUILLERMO ; Saved: 9/22/2026 11:10 AM by GESPINO

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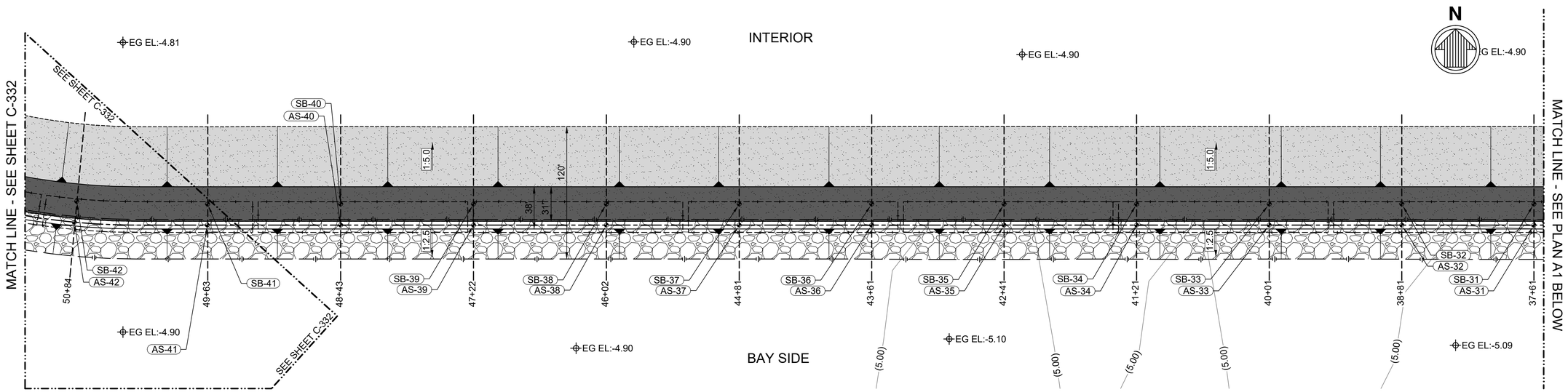
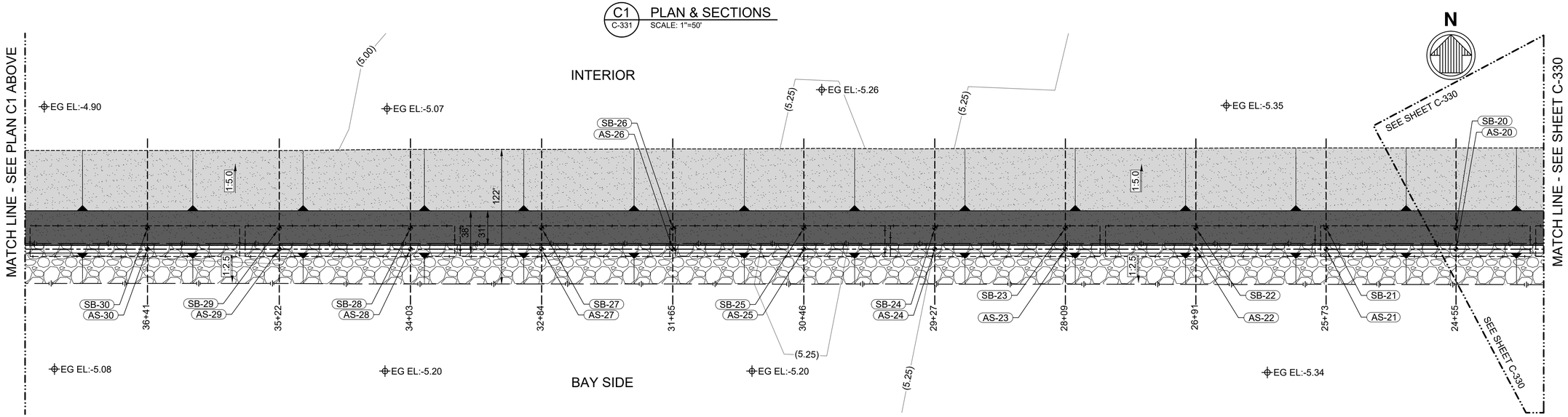
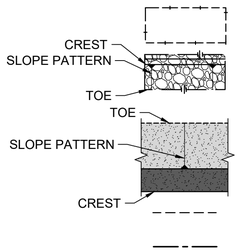


C1 C-331 PLAN & SECTIONS
SCALE: 1"=50'



A1 A-331 PLAN & SECTIONS
SCALE: 1"=50'

LEGEND:

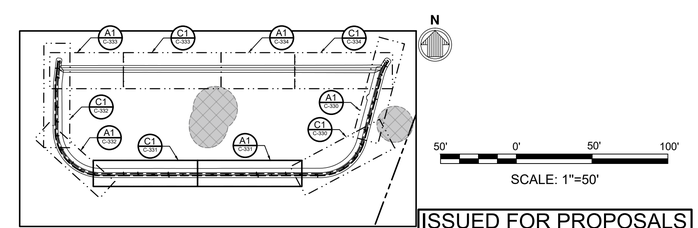


GEOTUBE APPROX. EXTENT
ARMOR STONE
SAND BERM
SECTION LINE
ALIGNMENT

- SB-## CENTER OF SAND BERM WP
- AS-## CENTER OF ARMOR STONE CREST WP
- BDS-R-# BORROW DITCH SECONDARY RIGHT TOE WP
- BDS-L-# BORROW DITCH SECONDARY LEFT TOE WP
- ND-## CENTER OF NORTHERN DIKE WP
- BDP-L-## BORROW DITCH PRIMARY LEFT TOE WP
- BDP-R-## BORROW DITCH PRIMARY RIGHT TOE WP
- ###+## ALIGNMENT STATION

NOTES:

1. SHOWN GEOTUBE APPROX EXTENT IS THE FOOTPRINT OF THE BOTTOM ROW OF GEOTUBES.



SCALE: 1"=50'

KEY PLAN

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE PLAN & SECTIONS (2 OF 5)

Designed by: NC	Date: 2026-09-22		Rev. REVNO
Dwn by: GE	Ckd by: PC	M&N Project No. 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG GOECKER		Drawing Scale:	Plot scale: 1:1 (D SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000
ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
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File: P:\BR\210315\00 CADD_Active_construction set\210315C-330 ; Plotted: 9/22/2026 11:12 AM by ESPINO, GUILLERMO ; Saved: 9/22/2026 11:10 AM by GESPINO

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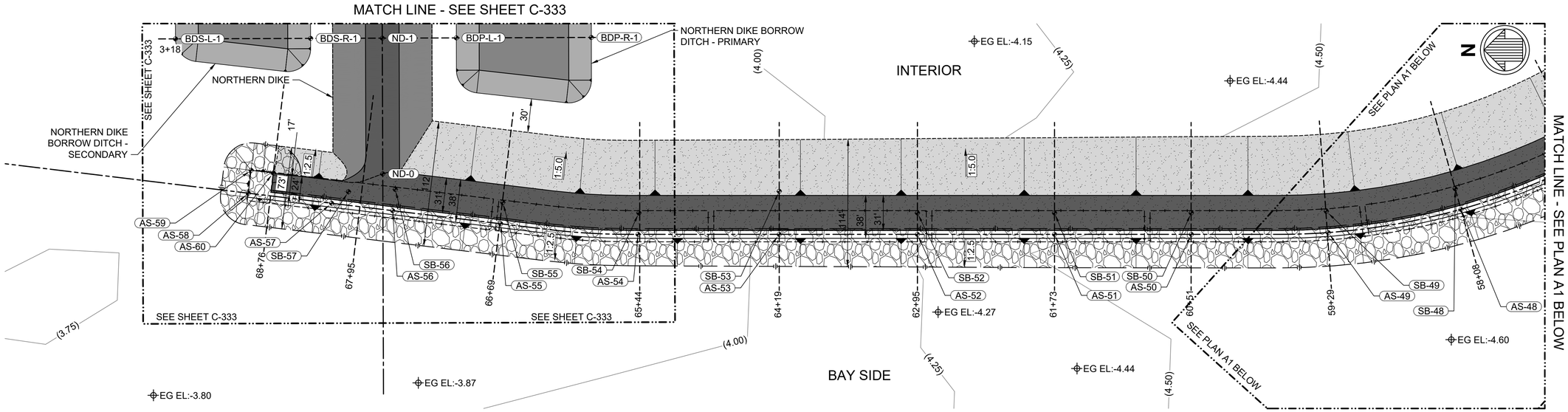
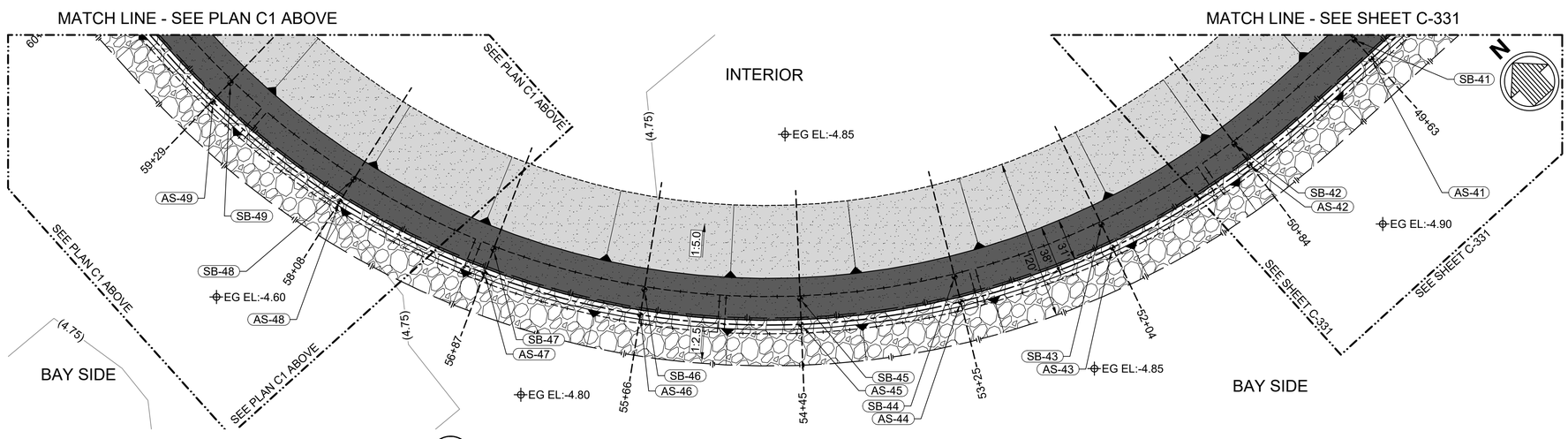
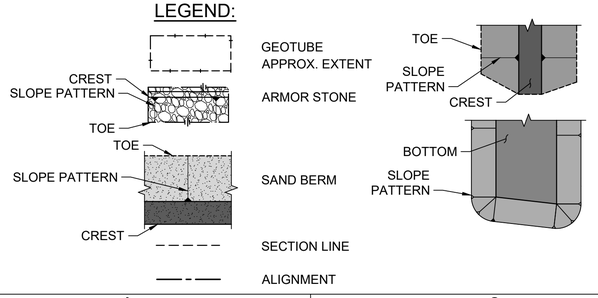


C1 C-332 PLAN & SECTIONS
SCALE: 1"=50'



A1 C-332 PLAN & SECTIONS
SCALE: 1"=50'

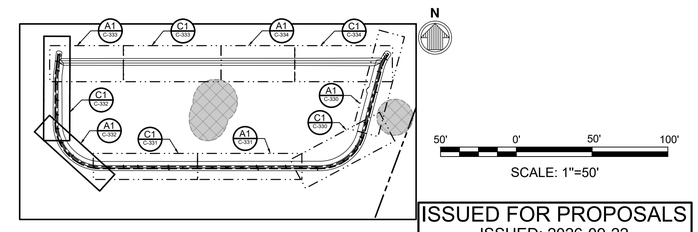
LEGEND:



- SB-## CENTER OF SAND BERM WP
- AS-## CENTER OF ARMOR STONE CREST WP
- BDS-R-# BORROW DITCH SECONDARY RIGHT TOE WP
- BDS-L-# BORROW DITCH SECONDARY LEFT TOE WP
- ND-## CENTER OF NORTHERN DIKE WP
- BDP-L-## BORROW DITCH PRIMARY LEFT TOE WP
- BDP-R-## BORROW DITCH PRIMARY RIGHT TOE WP
- ###+## ALIGNMENT STATION
- WB-# WEIR BOX GRADED SAND PAD

NOTES:

1. SHOWN GEOTUBE APPROX EXTENT IS THE FOOTPRINT OF THE BOTTOM ROW OF GEOTUBES.



KEY PLAN

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE PLAN & SECTIONS (3 OF 5)

Rev:	REVNO
Date:	2026-09-22
M&N Project No.	210315
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)
Designed by:	NC
Dwn by:	GE
Ckd by:	PC
Reviewed by:	PK
Submitted by:	MEG GOECKER

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

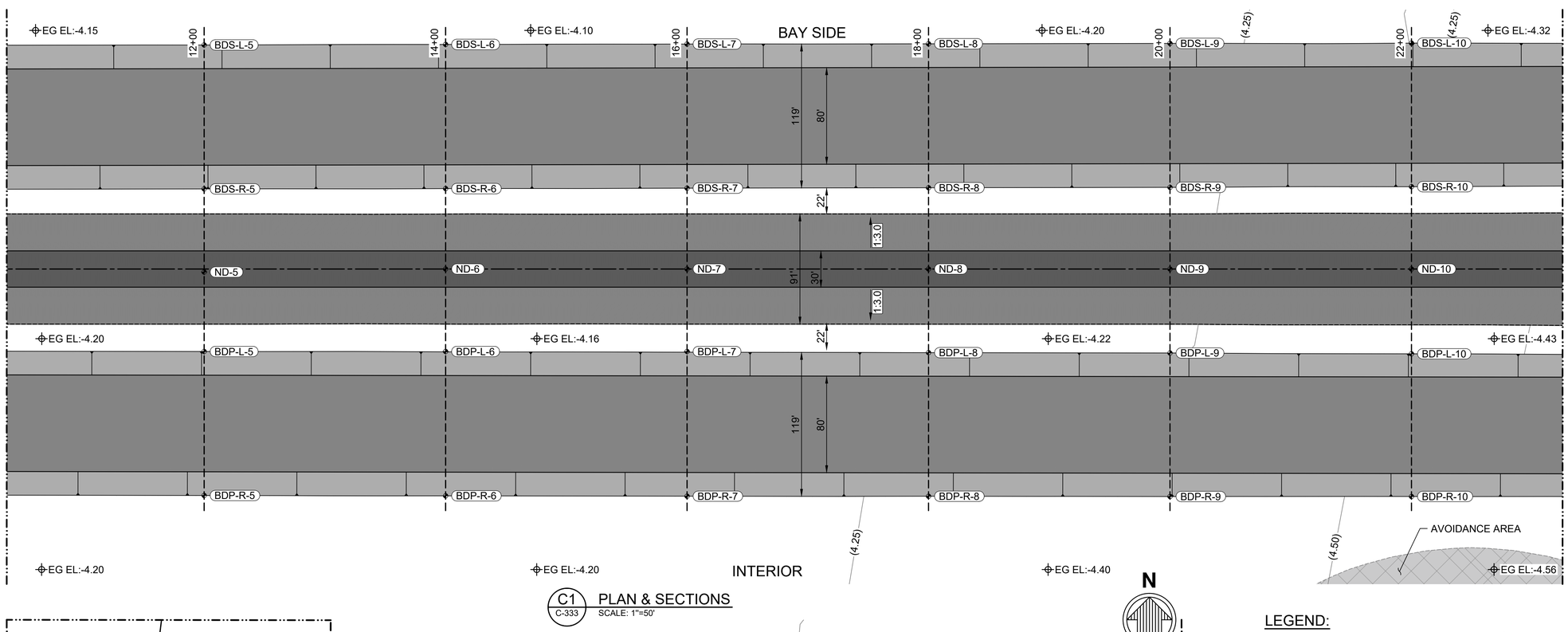
ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

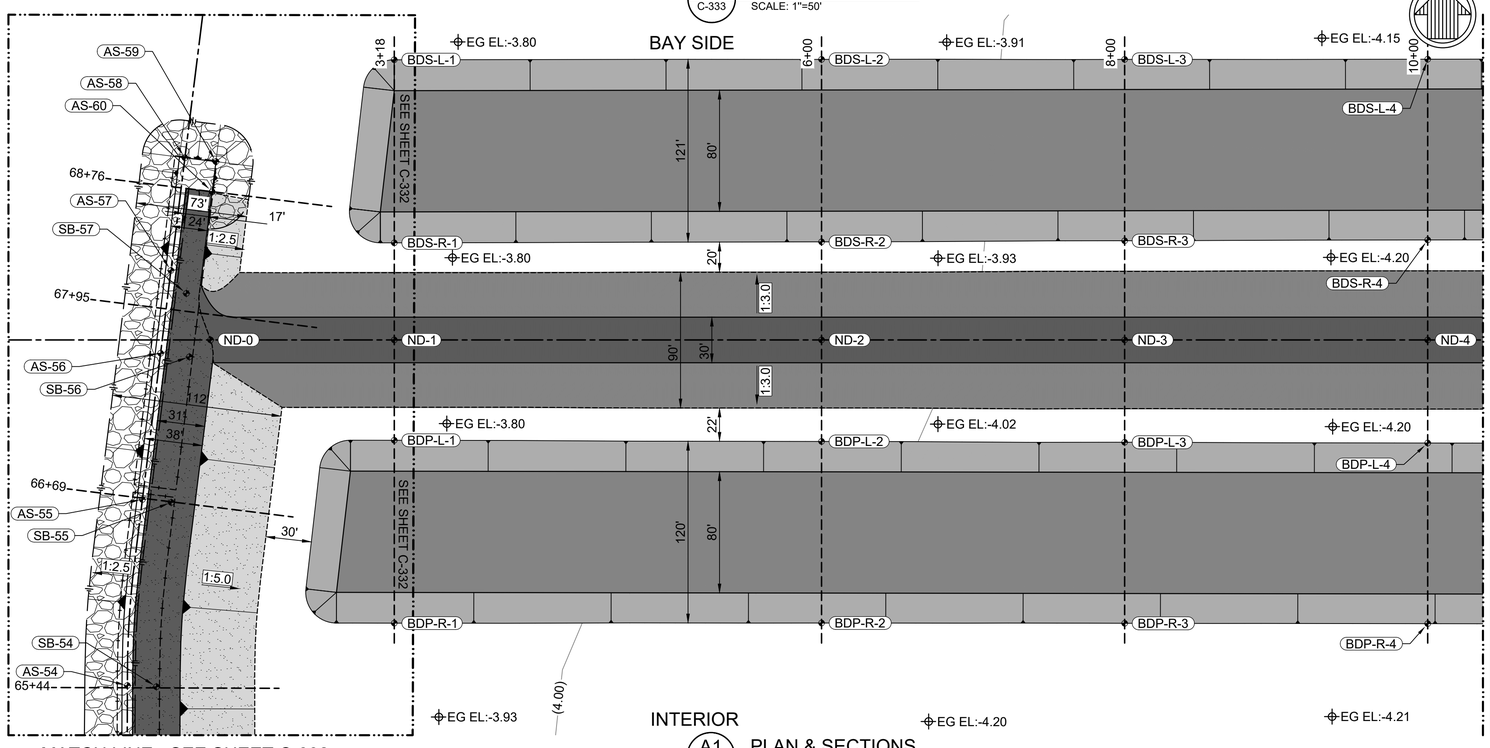
Sheet Reference No.
C-332
INDEX: 26 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-330, Plotted: 9/22/2026 11:12 AM by: ESPINO, GUILLERMO, Saved: 9/22/2026 11:10 AM by: GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



C1 C-333 PLAN & SECTIONS
SCALE: 1"=50'



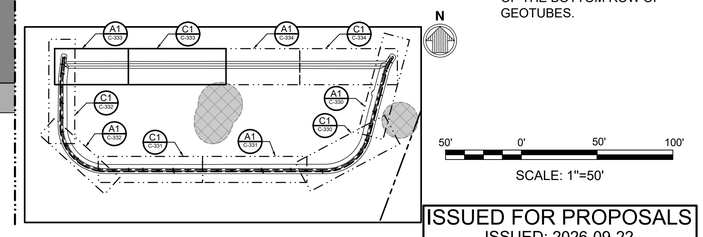
A1 C-333 PLAN & SECTIONS
SCALE: 1"=50'

LEGEND:

- GEOTUBE APPROX. EXTENT
- ARMOR STONE (CREST, SLOPE PATTERN, TOE)
- SAND BERM (SLOPE PATTERN, CREST, TOE)
- SECTION LINE
- ALIGNMENT
- BORROW DITCH (BOTTOM, SLOPE PATTERN)
- NORTHERN DIKE (TOE, CREST, SLOPE PATTERN)
- SB-## CENTER OF SAND BERM WP
- AS-## CENTER OF ARMOR STONE CREST WP
- BDS-R-# BORROW DITCH SECONDARY RIGHT TOE WP
- BDS-L-# BORROW DITCH SECONDARY LEFT TOE WP
- ND-## CENTER OF NORTHERN DIKE WP
- BDP-L-## BORROW DITCH PRIMARY LEFT TOE WP
- BDP-R-## BORROW DITCH PRIMARY RIGHT TOE WP
- ###+## ALIGNMENT STATION

NOTES:

1. SHOWN GEOTUBE APPROX EXTENT IS THE FOOTPRINT OF THE BOTTOM ROW OF GEOTUBES.



SCALE: 1"=50'

KEY PLAN

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE PLAN & SECTIONS (4 OF 5)

Mark	Description	Date	Appr.

Designed by: NC	Date: 2026-09-22
Dwn by: GE	Ckd by: PC
Reviewed by: PK	Drawing code:
Submitted by: MEG GOECKER	Drawing Scale:
	Plot scale: 1:1 (D SHEET)
	Rev: REVNO
	M&N Project No. 210315

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
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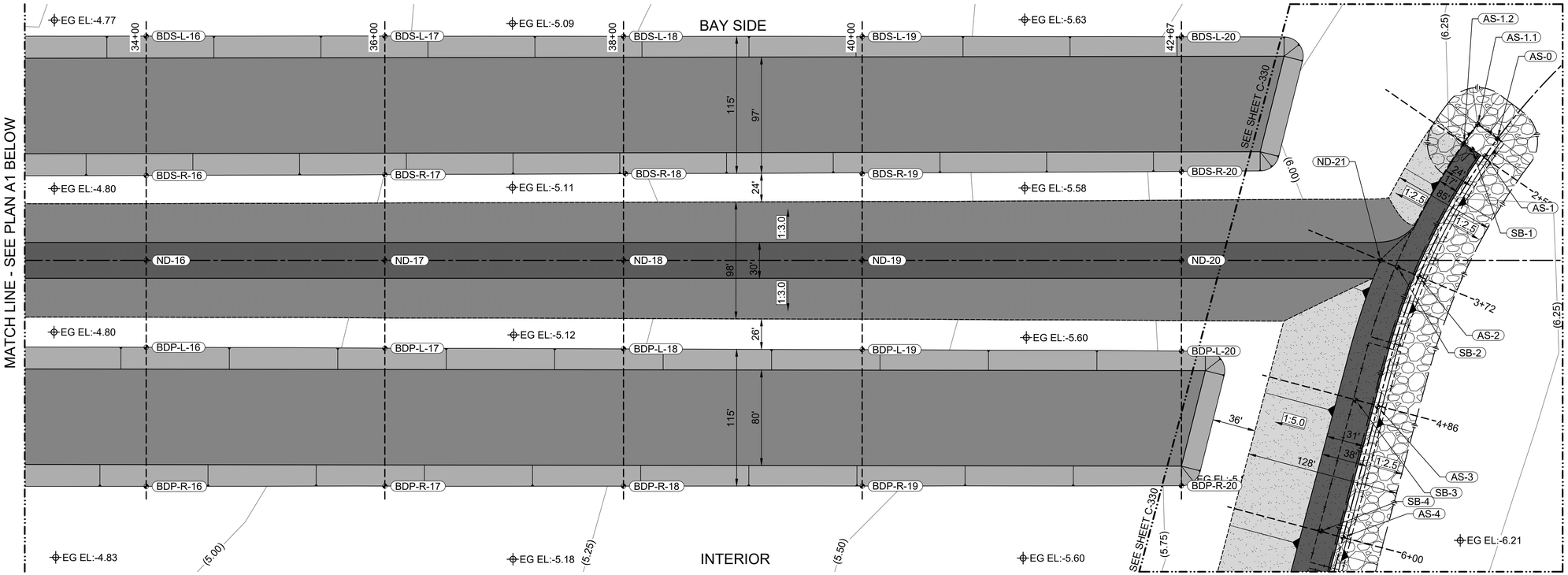
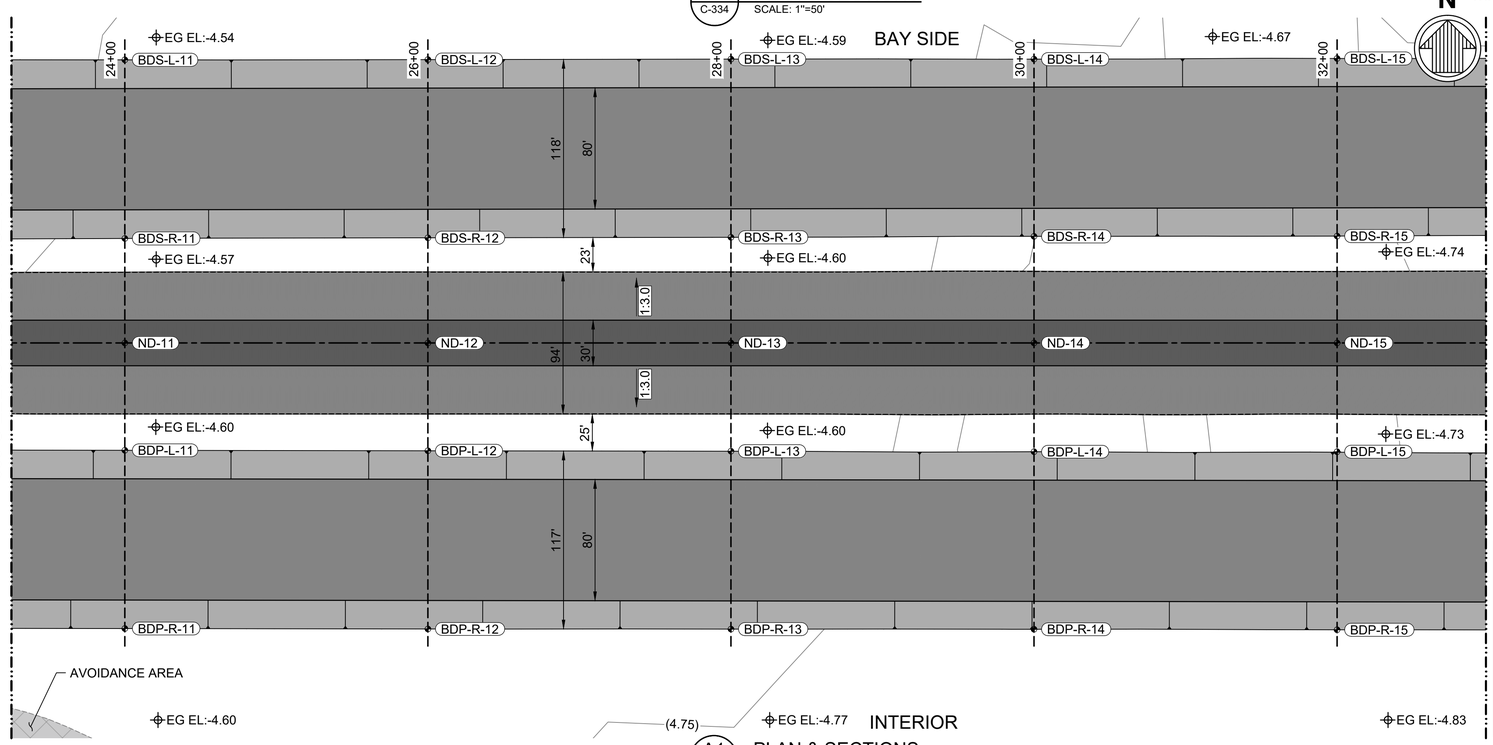
File: P:\BR\210315\20 CADD_Active_construction set\210315C-330.rvt Plotted: 9/22/2026 11:13 AM by ESPINO, GUILLERMO Saved: 9/22/2026 11:10 AM by GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



C1 C-334 PLAN & SECTIONS
SCALE: 1"=50'



A1 C-334 PLAN & SECTIONS
SCALE: 1"=50'

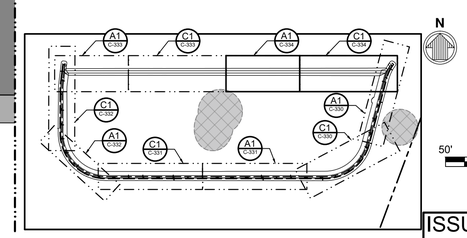
MATCH LINE - SEE SHEET C-330

LEGEND:

- GEOTUBE APPROX. EXTENT
- ARMOR STONE (CREST, SLOPE PATTERN, TOE)
- SAND BERM (SLOPE PATTERN, CREST, TOE)
- SECTION LINE
- ALIGNMENT
- BORROW DITCH (BOTTOM, SLOPE PATTERN)
- NORTHERN DIKE (TOE, CREST, SLOPE PATTERN)
- SB-## CENTER OF SAND BERM WP
- AS-## CENTER OF ARMOR STONE CREST WP
- BDS-R-# BORROW DITCH SECONDARY RIGHT TOE WP
- BDS-L-# BORROW DITCH SECONDARY LEFT TOE WP
- ND-## CENTER OF NORTHERN DIKE WP
- BDP-L-## BORROW DITCH PRIMARY LEFT TOE WP
- BDP-R-## BORROW DITCH PRIMARY RIGHT TOE WP
- ###+## ALIGNMENT STATION

NOTES:

1. SHOWN GEOTUBE APPROX EXTENT IS THE FOOTPRINT OF THE BOTTOM ROW OF GEOTUBES.



KEY PLAN

50' 0' 50' 100'
SCALE: 1"=50'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE PLAN & SECTIONS (5 OF 5)

Rev:	REVNO
Date:	2026-09-22
M&N Project No.	210315
Drawing code:	
Drawing Scale:	1:1 (0 SHEET)
Plot scale:	1:1
Designed by:	NC
Cad by:	PC
Drawn by:	GE
Reviewed by:	PK
Submitted by:	MEG GOECKER

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

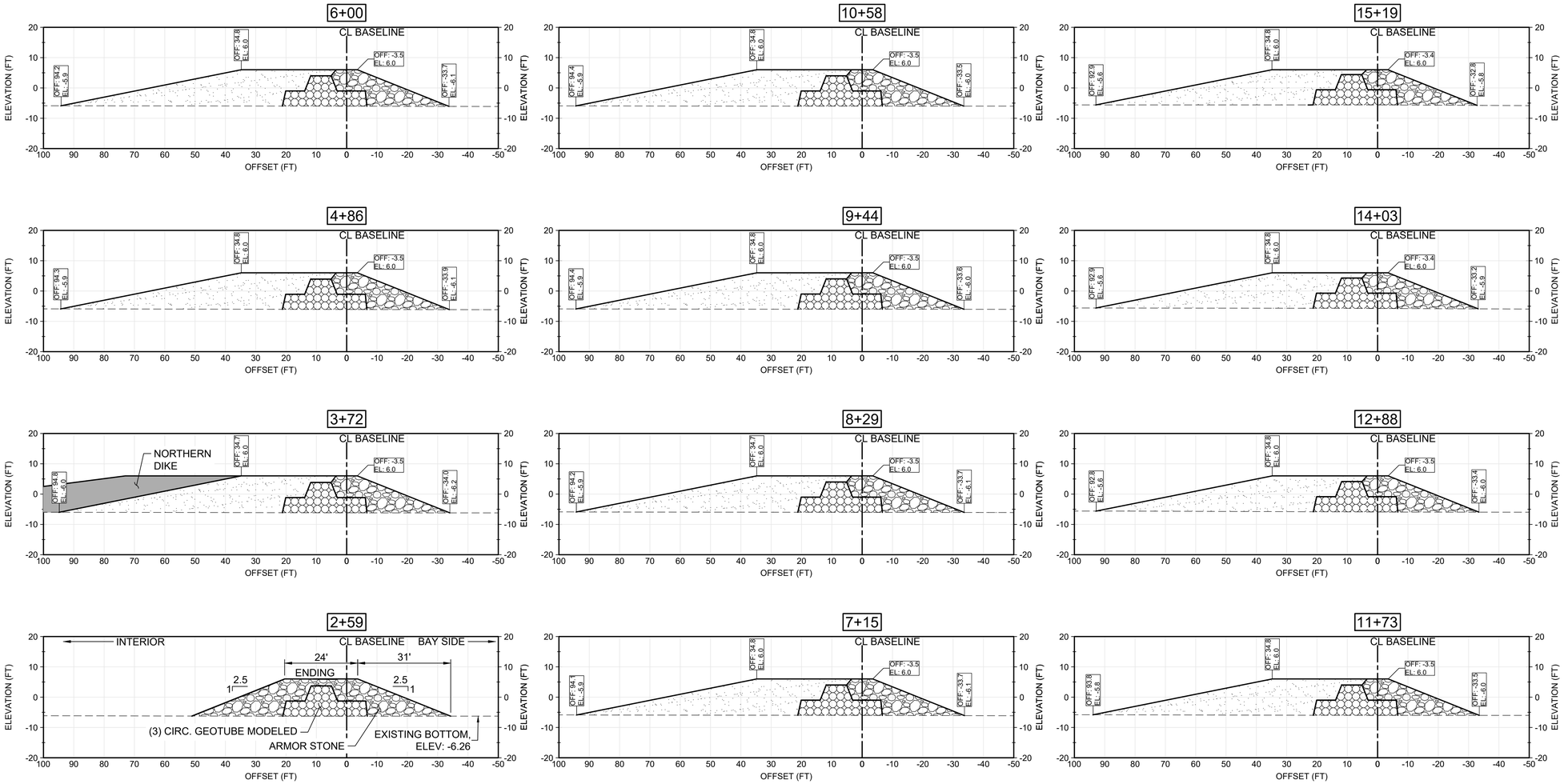
ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-334
INDEX: 28 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-330 ; Plotted: 9/22/2026 11:13 AM by ESPINO, GUILLERMO ; Saved: 9/22/2026 11:10 AM by GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



LEGEND:

- ARMOR STONE
- GEOTUBES
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. THE GEOTUBE ENVELOPE SHOWN REPRESENTS THE APPROXIMATE EXTENTS OF THE GEOTUBES AND IS BASED ON A DESIGN VOLUME OF APPROXIMATELY 2CY/LF PER GEOTUBE. THE DEPICTED GEOMETRY IS INTENDED FOR CONCEPTUAL AND DESIGN REPRESENTATION ONLY AND DOES NOT REFLECT THE EXACT AS-CONSTRUCTED CROSS-SECTION OF THE GEOTUBES. REFER TO SHEET C-301 FOR THE GEOTUBE DETAILS AND DESIGN DIMENSIONS.

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE SECTIONS (1 OF 5)

Designed by: NC
Dwn by: GE
Ckd by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Date: 2026-09-22
Rev: REVNO
M&N Project No: 210315
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
C-335
INDEX: 29 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-335 ; Plotted: 9/22/2026 9:18 AM by ESPINO, GUILLERMO ; Saved: 9/21/2026 6:40 PM by GESPINO

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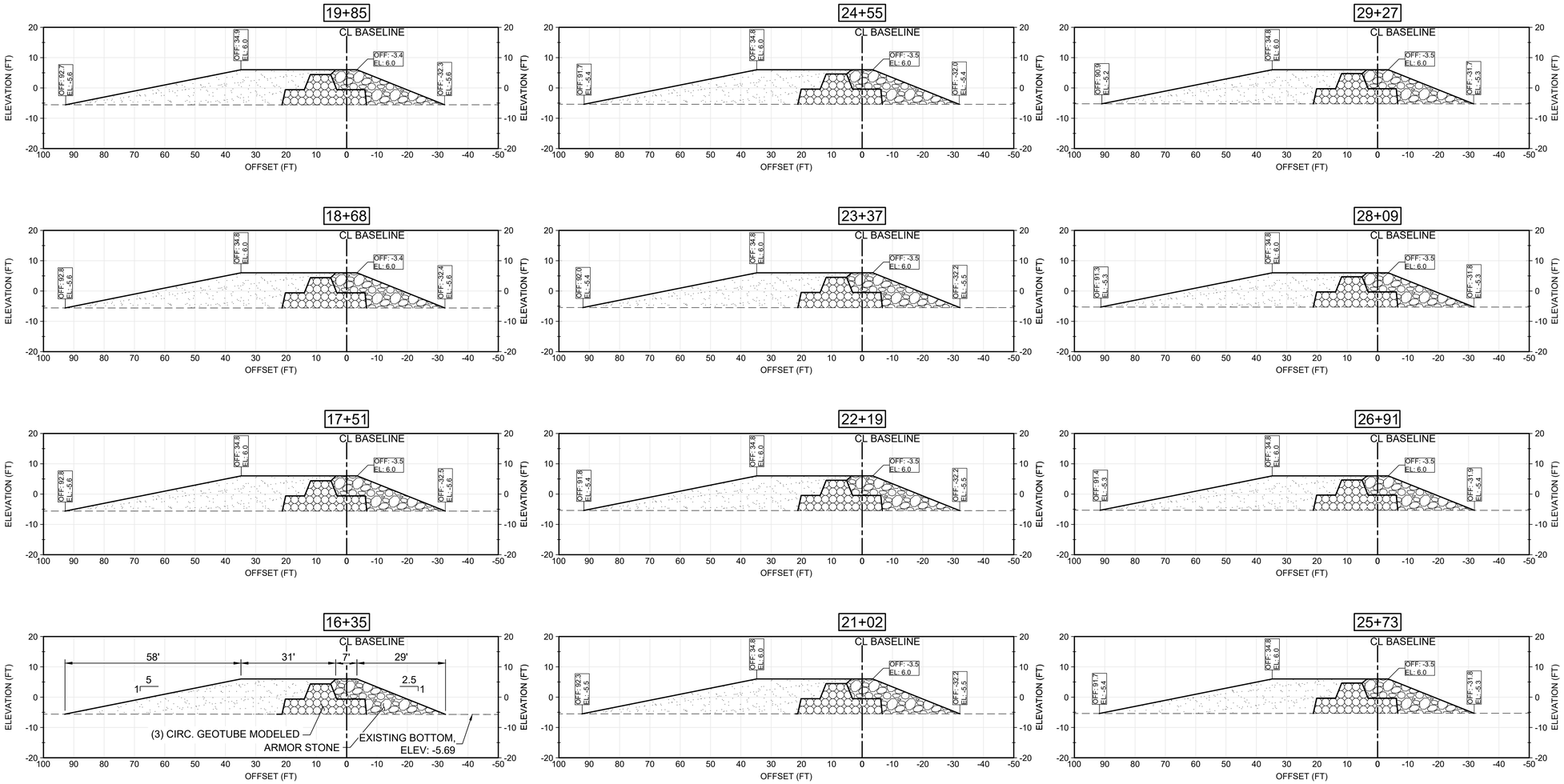


LEGEND:

- ARMOR STONE
- GEOTUBES
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. THE GEOTUBE ENVELOPE SHOWN REPRESENTS THE APPROXIMATE EXTENTS OF THE GEOTUBES AND IS BASED ON A DESIGN VOLUME OF APPROXIMATELY 2CY/LF PER GEOTUBE. THE DEPICTED GEOMETRY IS INTENDED FOR CONCEPTUAL AND DESIGN REPRESENTATION ONLY AND DOES NOT REFLECT THE EXACT AS-CONSTRUCTED CROSS-SECTION OF THE GEOTUBES. REFER TO SHEET C-301 FOR THE GEOTUBE DETAILS AND DESIGN DIMENSIONS.

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE SECTIONS (2 OF 5)

Designed by: NC	Dwn by: GE	Ckd by: PC	Reviewed by: PK
Submitted by: MEG GOECKER	Date: 2026-09-22	Rev: REVNO	
M&N Project No: 210315	Drawing code:	Drawing Scale:	Plot scale: 1:1 (0 SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

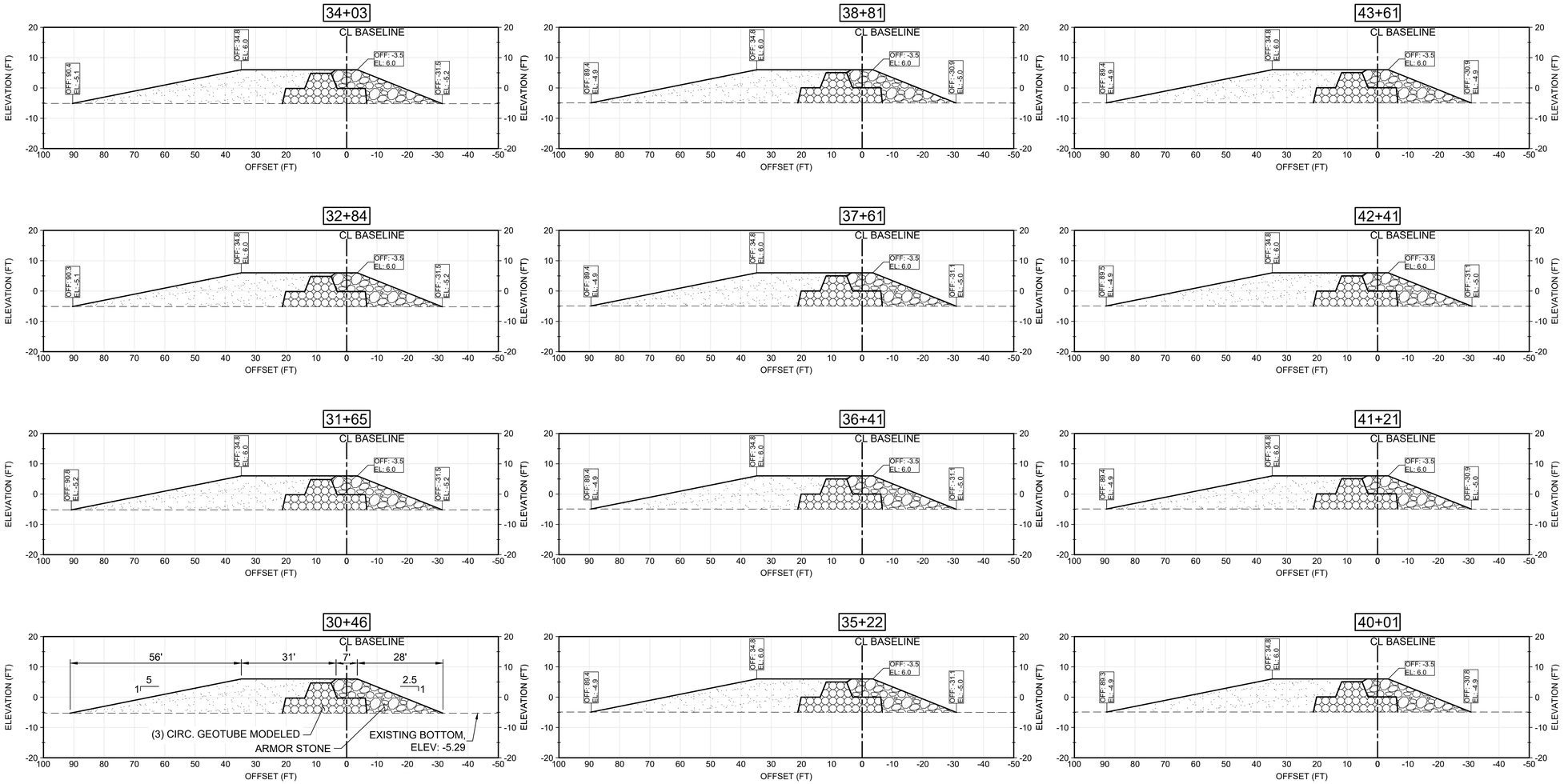
ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-336
INDEX: 30 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-335 ; Plotted: 9/22/2026 9:18 AM by ESPINO, GUILLERMO ; Saved: 9/21/2026 6:40 PM by GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



LEGEND:

- ARMOR STONE
- GEOTUBES
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. THE GEOTUBE ENVELOPE SHOWN REPRESENTS THE APPROXIMATE EXTENTS OF THE GEOTUBES AND IS BASED ON A DESIGN VOLUME OF APPROXIMATELY 2CY/LF PER GEOTUBE. THE DEPICTED GEOMETRY IS INTENDED FOR CONCEPTUAL AND DESIGN REPRESENTATION ONLY AND DOES NOT REFLECT THE EXACT AS-CONSTRUCTED CROSS-SECTION OF THE GEOTUBES. REFER TO SHEET C-301 FOR THE GEOTUBE DETAILS AND DESIGN DIMENSIONS.

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE SECTIONS (3 OF 5)

Rev:	REVNO
Date:	2026-09-22
M&N Project No:	210315
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (0 SHEET)

Designed by: NC	Cad by: PC
Dwn by: GE	Reviewed by: PK
Submitted by: MEG GOECKER	

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
C-337
INDEX: 31 OF 57

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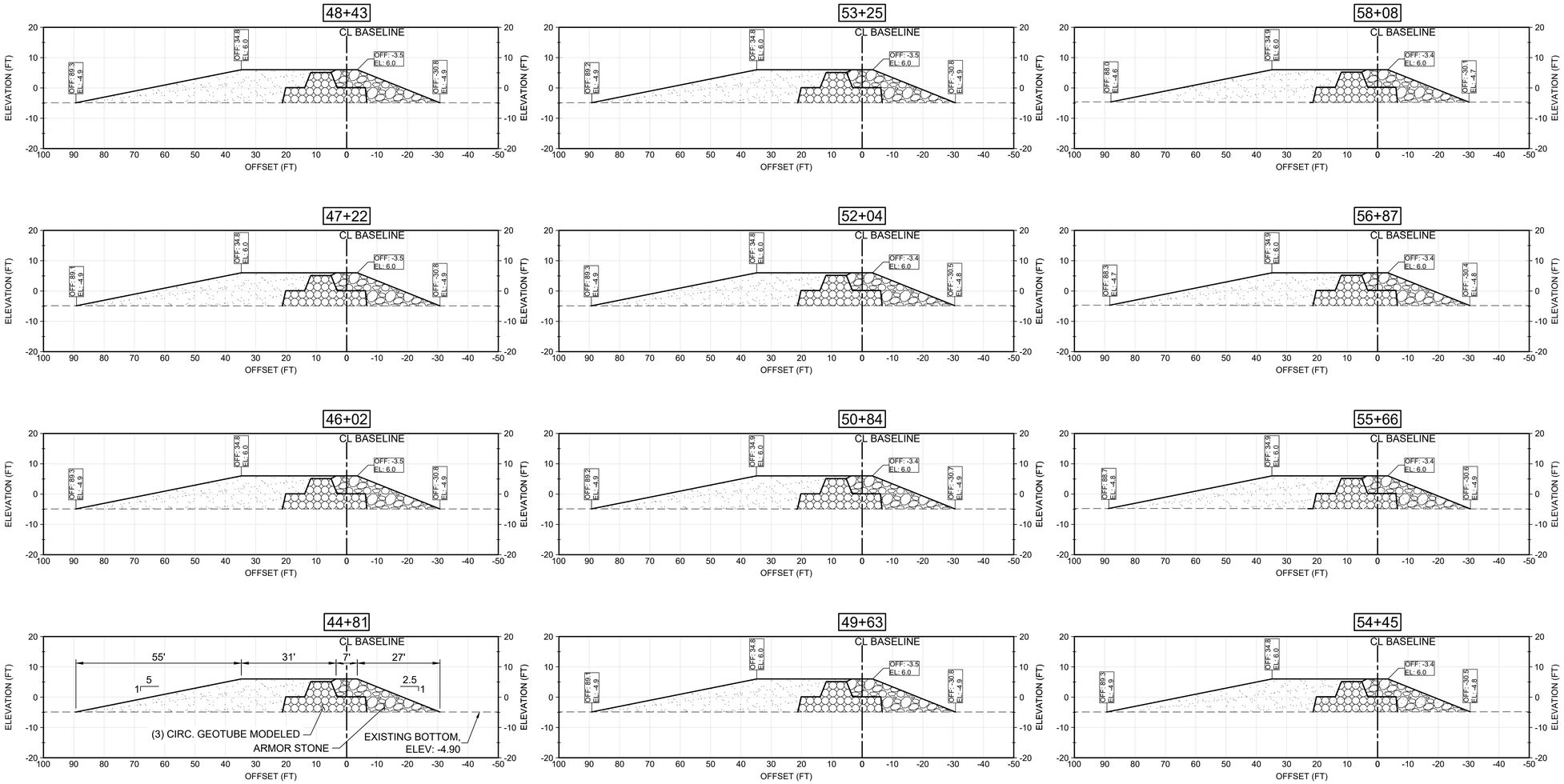

LEGEND:

- ARMOR STONE
- GEOTUBES
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. THE GEOTUBE ENVELOPE SHOWN REPRESENTS THE APPROXIMATE EXTENTS OF THE GEOTUBES AND IS BASED ON A DESIGN VOLUME OF APPROXIMATELY 2CY/LF PER GEOTUBE. THE DEPICTED GEOMETRY IS INTENDED FOR CONCEPTUAL AND DESIGN REPRESENTATION ONLY AND DOES NOT REFLECT THE EXACT AS-CONSTRUCTED CROSS-SECTION OF THE GEOTUBES. REFER TO SHEET C-301 FOR THE GEOTUBE DETAILS AND DESIGN DIMENSIONS.

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE SECTIONS (4 OF 5)

Designed by: NC
Dwn by: GE
Ckd by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Date: 2026-09-22
Rev: REVNO
M&N Project No: 210315
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
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INDEX: 32 OF 57

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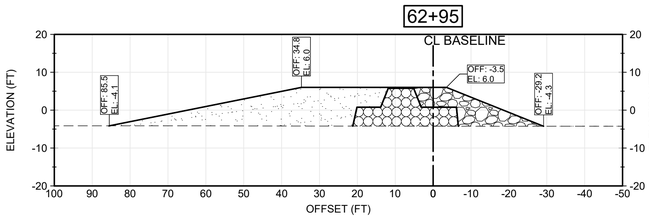

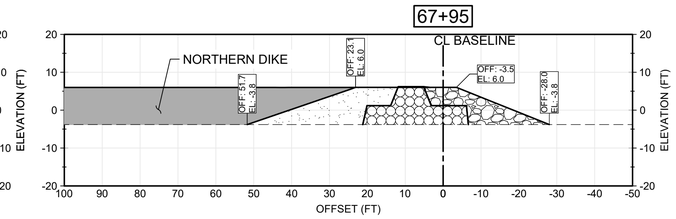

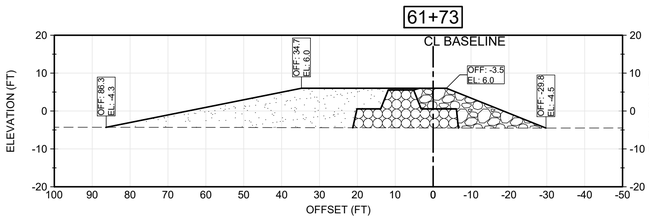

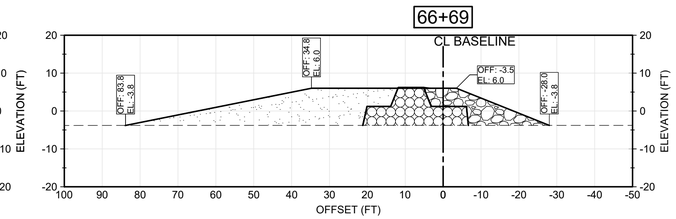

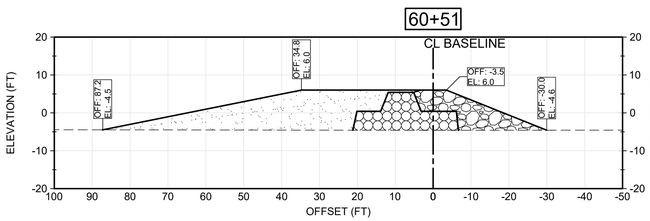

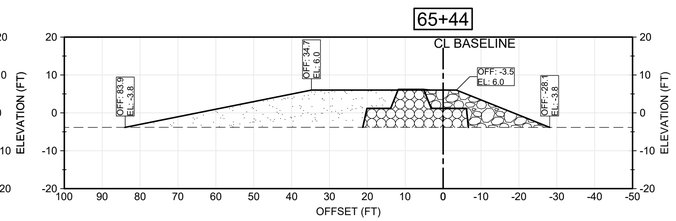

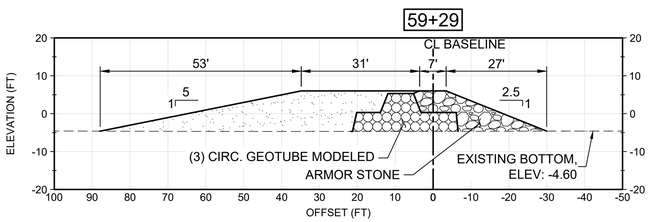

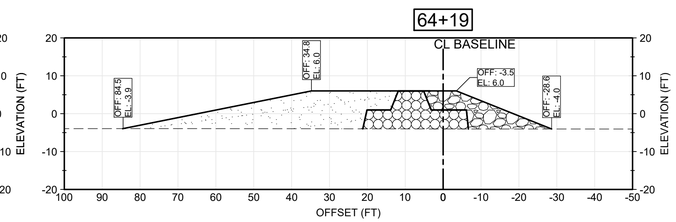

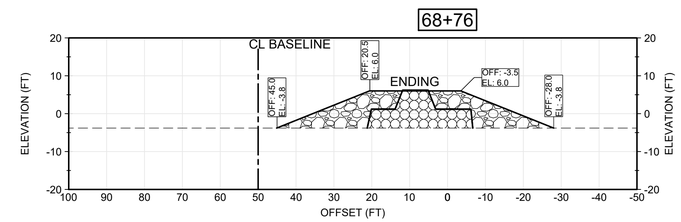

LEGEND:

- ARMOR STONE
- GEOTUBES
- SAND BERM
- EXISTING BOTTOM

NOTES:

1. ARMOR STONE SHALL BE ALDOT CLASS 5
2. THE GEOTUBE ENVELOPE SHOWN REPRESENTS THE APPROXIMATE EXTENTS OF THE GEOTUBES AND IS BASED ON A DESIGN VOLUME OF APPROXIMATELY 2CY/LF PER GEOTUBE. THE DEPICTED GEOMETRY IS INTENDED FOR CONCEPTUAL AND DESIGN REPRESENTATION ONLY AND DOES NOT REFLECT THE EXACT AS-CONSTRUCTED CROSS-SECTION OF THE GEOTUBES. REFER TO SHEET C-301 FOR THE GEOTUBE DETAILS AND DESIGN

DIMENSIONS.

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBE SECTIONS (5 OF 5)

Rev.	Date:	Designed by:	Dwn by:	Ckd by:	Reviewed by:	Submitted by:	M&N Project No.	Drawing code:	Drawing Scale:	Plot scale:
REVNO	2026-09-22	NC	GE	PC	PK	MEG GOECKER	210315		1:1 (0 SHEET)	1:1 (0 SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
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File: P:\BR\210315\20 CADD_Active_construction set\210315C-335 ; Plotted: 9/22/2026 9:19 AM by ESPINO, GUILLERMO ; Saved: 9/21/2026 6:40 PM by GESPINO

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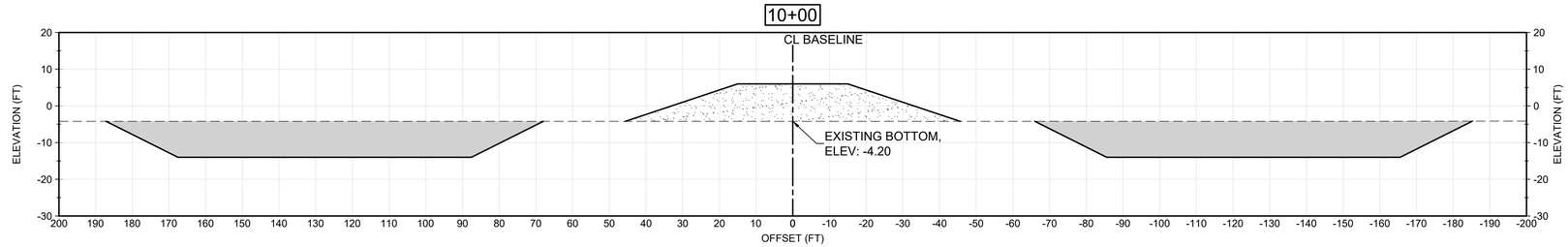

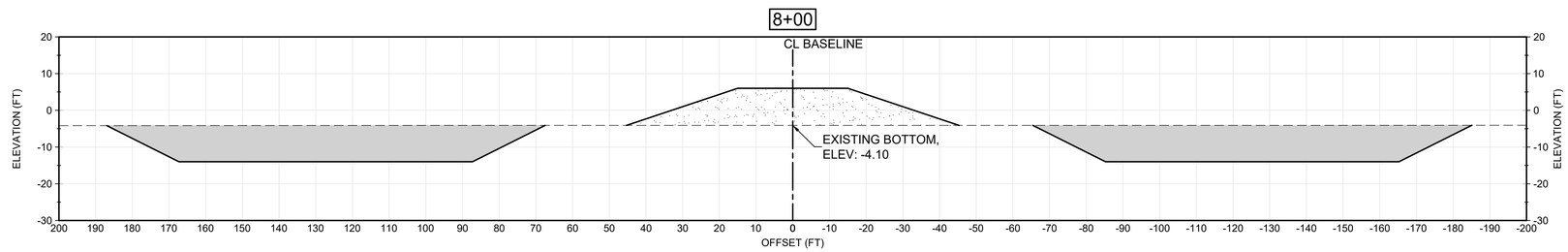

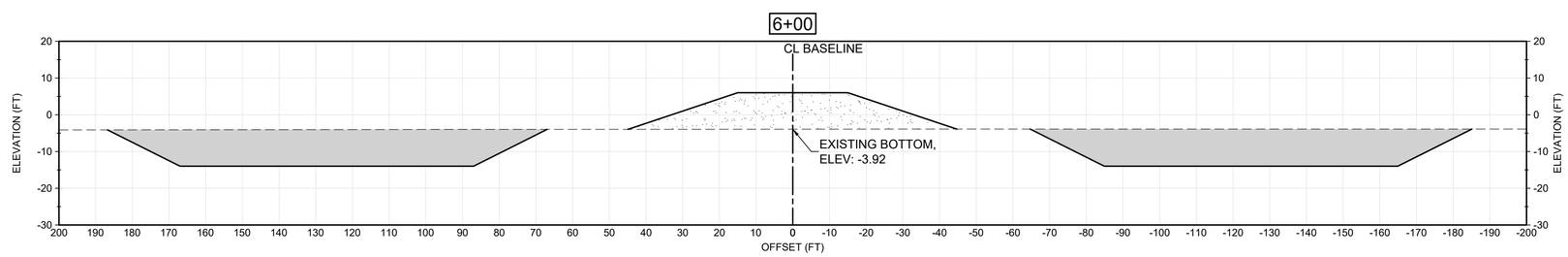

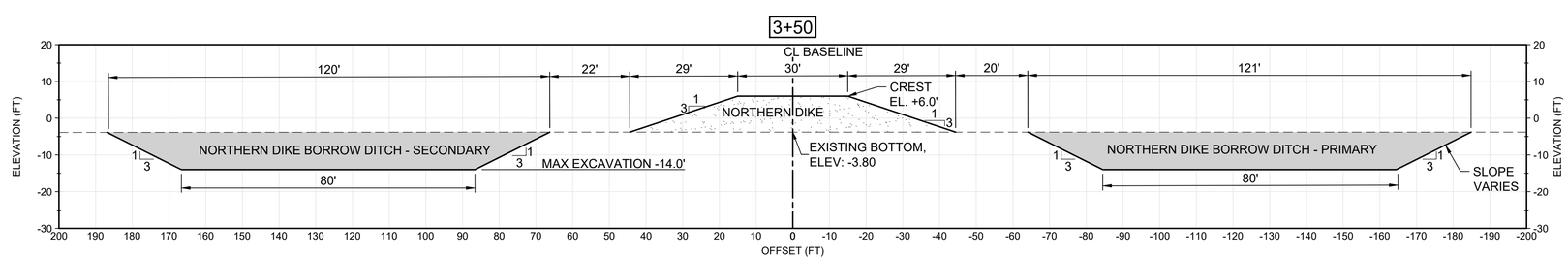

LEGEND

- EXISTING MUDLINE
- EXCAVATION AREA
- NORTHERN DIKE

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

NORTHERN DIKE & BORROW DITCH SECTIONS (1 OF 5)

Designed by: NC	Date: 2026-09-22	Rev: REVNO	
Dwn by: GE	Ckd by: PC	M&N Project No: 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG GOECKER		Drawing Scale:	
		Plot scale: 1:1 (D SHEET)	

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-341
INDEX: 34 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-341 ; Plotted: 9/22/2026 10:07 AM by: ESPINO, GUILLERMO ; Saved: 9/21/2026 3:11 PM by: GESPINO

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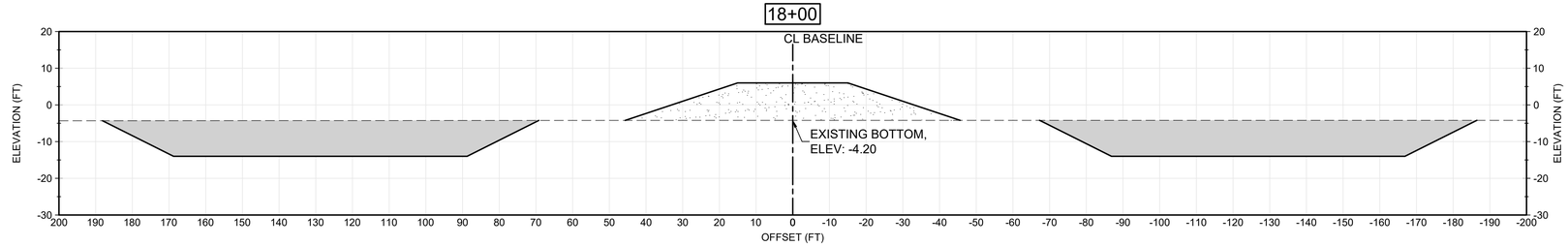

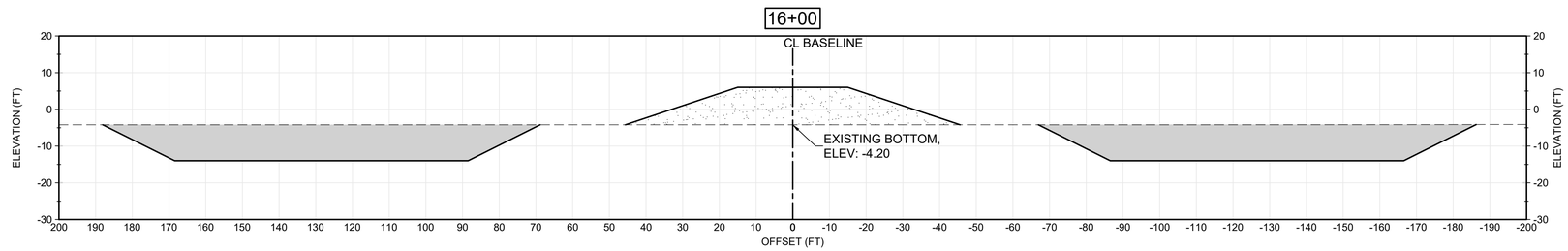

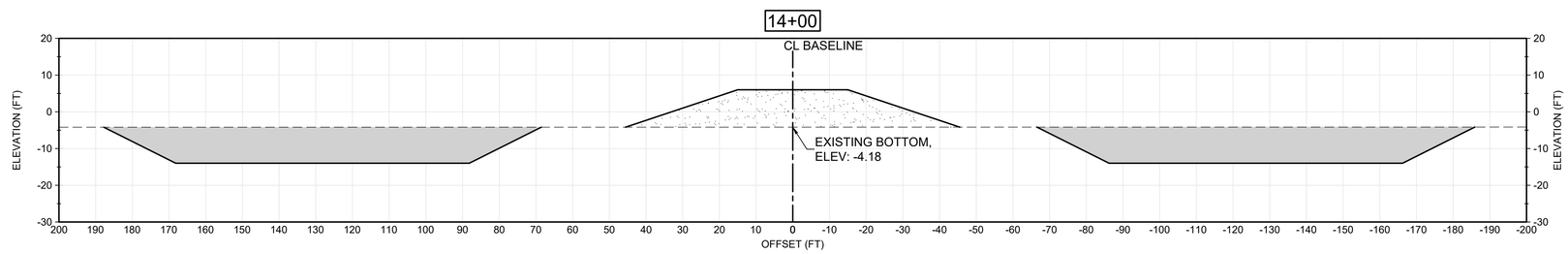

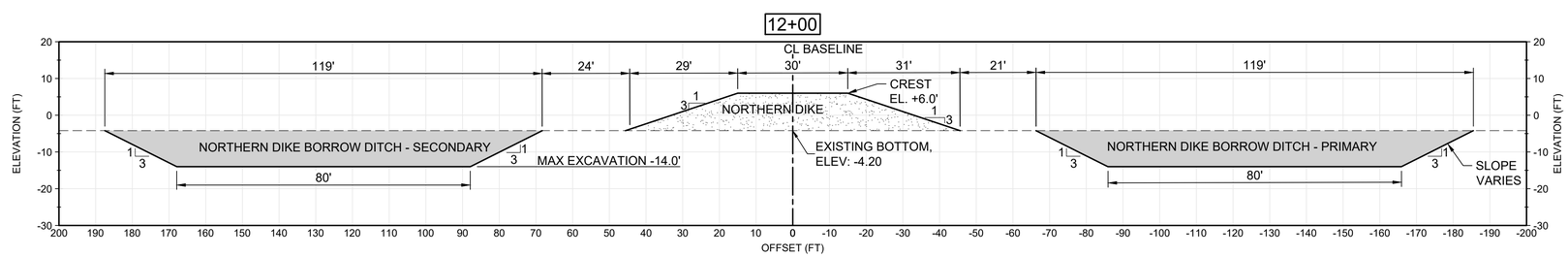

LEGEND

- EXISTING MUDLINE
- EXCAVATION AREA
- NORTHERN DIKE

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

NORTHERN DIKE & BORROW DITCH SECTIONS (2 OF 5)

Designed by: NC	Date: 2026-09-22	Rev: REVNO	
Dwn by: GE	Ckd by: PC	M&N Project No: 210315	
Reviewed by: PK	Drawing code:		
Submitted by: MEG GOECKER	Drawing Scale: Plot scale: 1:1 (D SHEET)		

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
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INDEX: 35 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-341 ; Plotted: 9/22/2026 10:07 AM by: ESPINO, GUILLERMO ; Saved: 9/21/2026 3:11 PM by: GESPINO

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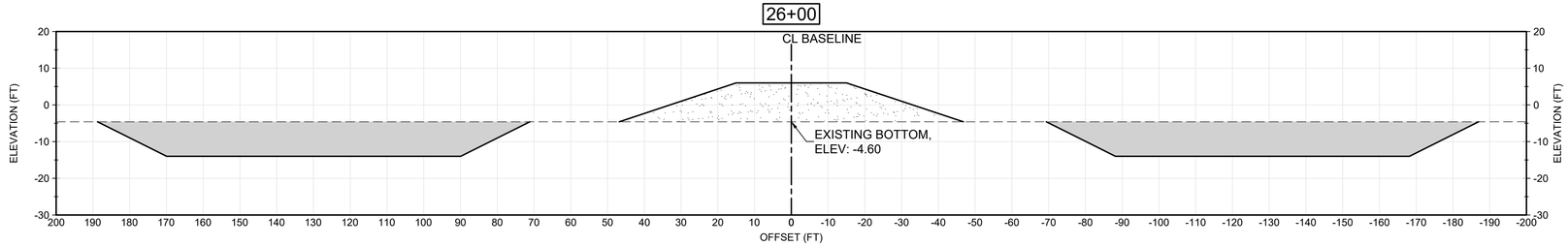

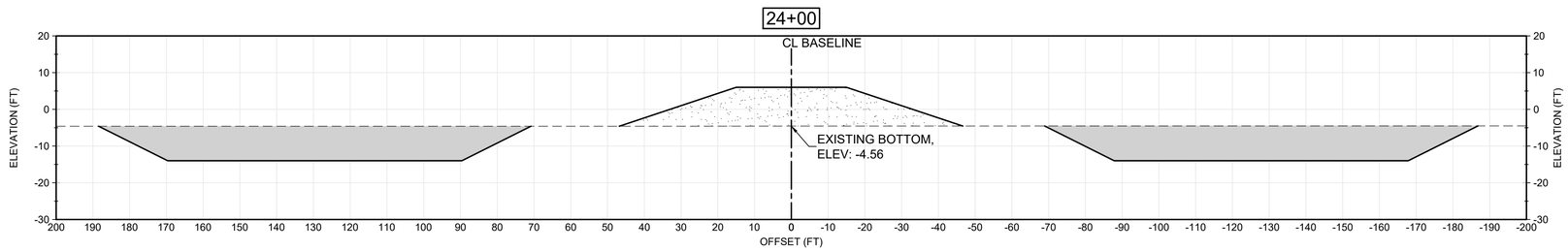

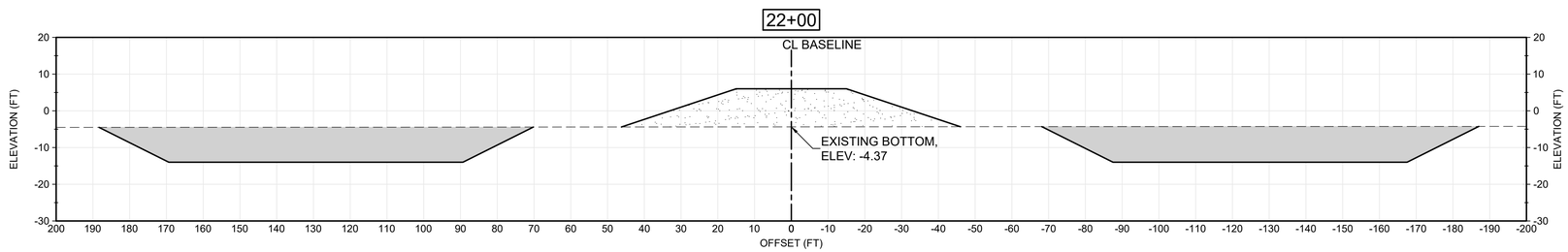

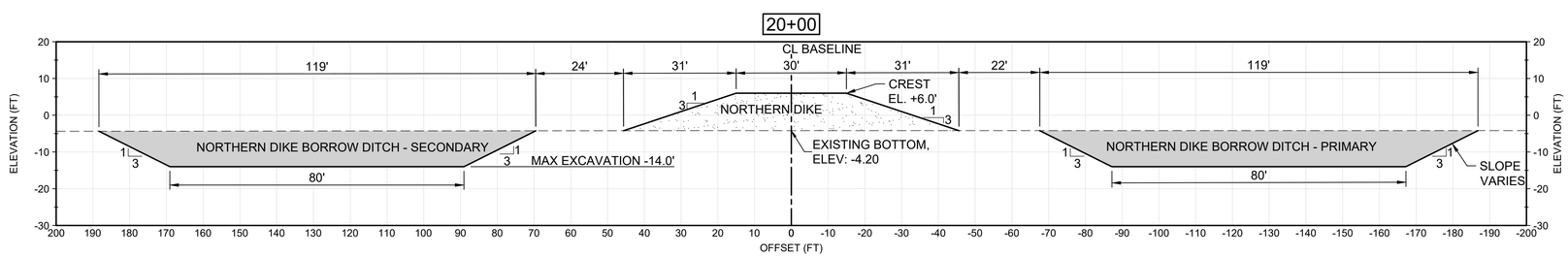

LEGEND

- EXISTING MUDLINE
- EXCAVATION AREA
- NORTHERN DIKE

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

NORTHERN DIKE & BORROW DITCH SECTIONS (3 OF 5)

moffatt & nichol
11 N. WATER STREET,
SUITE 20220 MOBILE,
AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET
MOBILE, AL 36602

Designed by: NC		Date: 2026-09-22	Rev: REVNO
Dwn by: GE	Ckd by: PC	M&N Project No: 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG GOECKER		Drawing Scale: Plot scale: 1:1 (D SHEET)	

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
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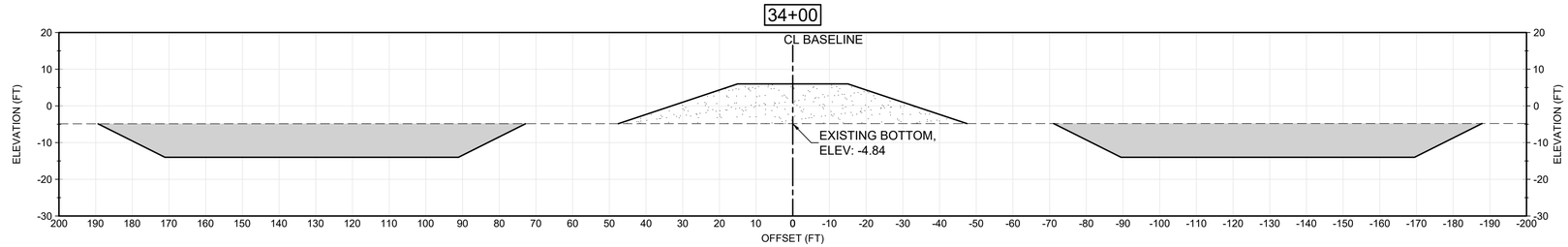
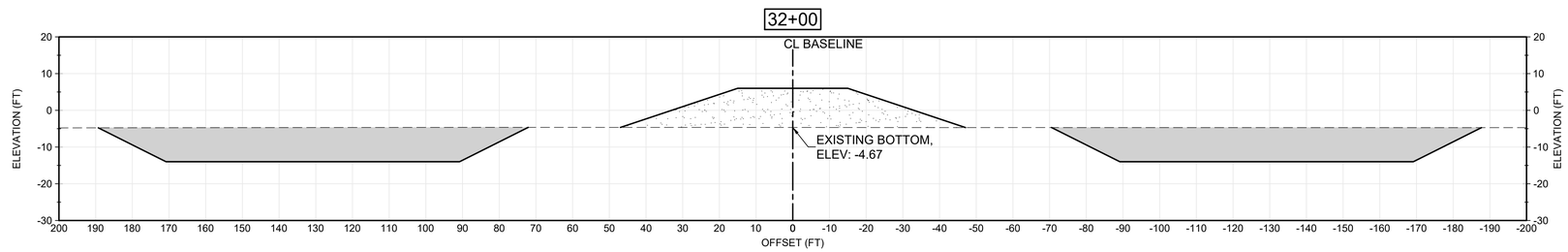
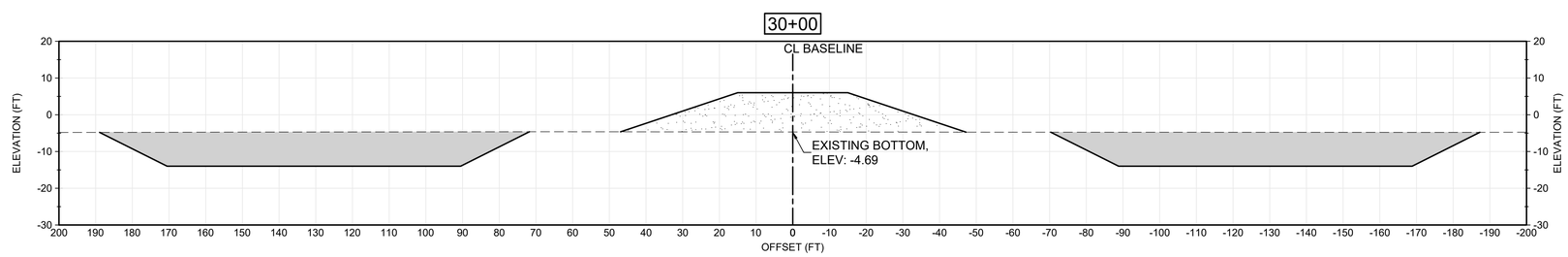
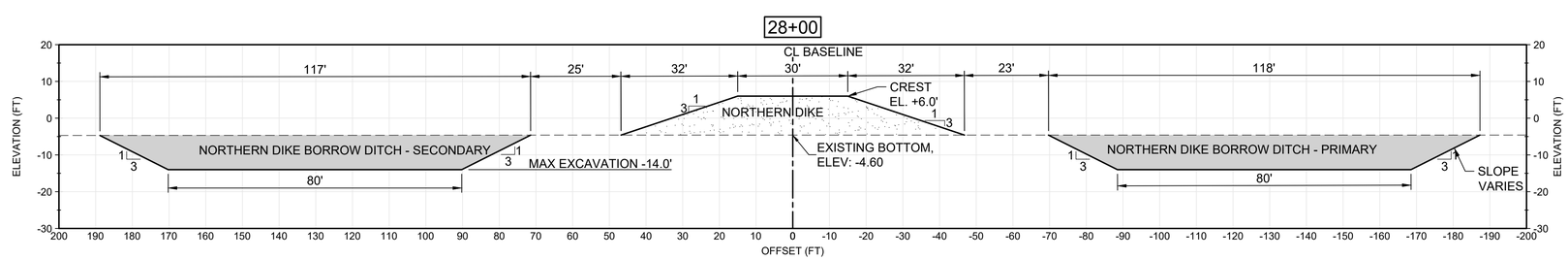
File: P:\BR\210315\20 CADD_Active_construction set\210315C-341 ; Plotted: 9/22/2026 10:07 AM by: ESPINO, GUILLERMO ; Saved: 9/21/2026 3:11 PM by: GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING









LEGEND

- EXISTING MUDLINE
- EXCAVATION AREA
- NORTHERN DIKE

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

NORTHERN DIKE & BORROW DITCH SECTIONS (4 OF 5)

Designed by: NC	Date: 2026-09-22	Rev: REVNO	
Dwn by: GE	Ckd by: PC	M&N Project No: 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG GOECKER		Drawing Scale: Plot scale: 1:1 (D SHEET)	

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

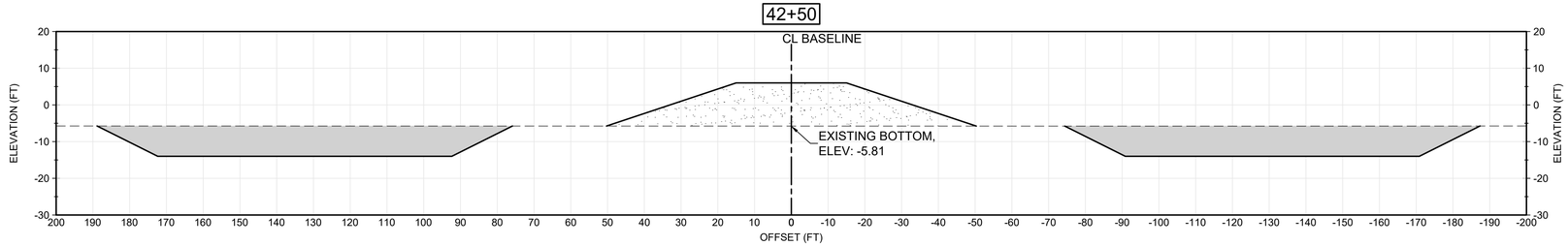
ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

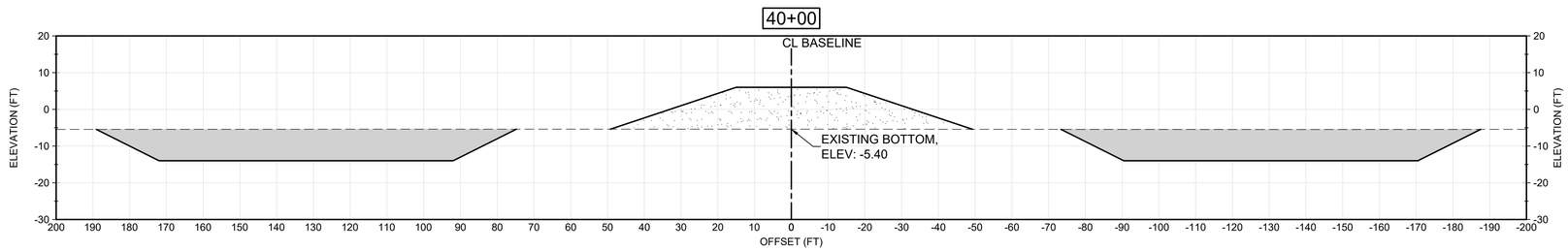
ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

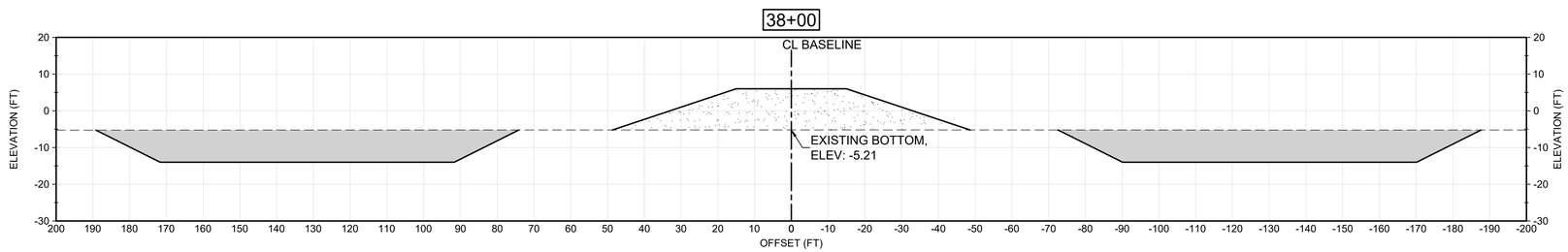
Sheet Reference No.
C-344
INDEX: 37 OF 57

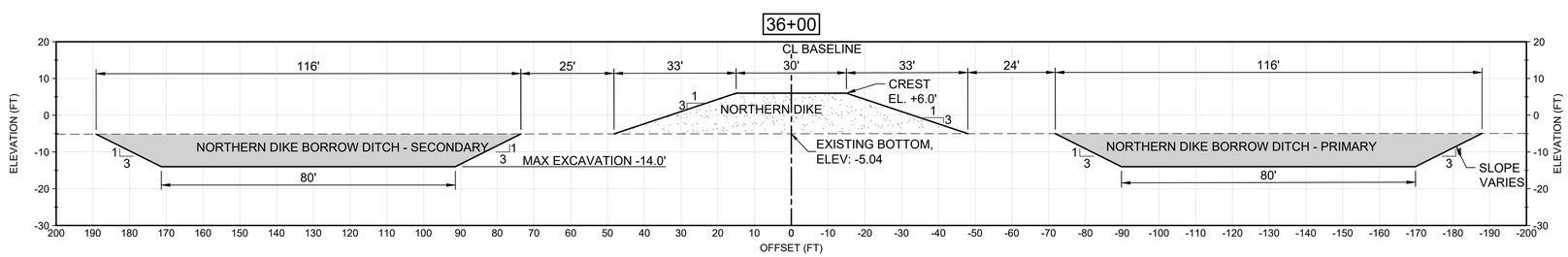
File: P:\BR\210315\20 CADD_Active_construction set\210315C-341 ; Plotted: 9/22/2026 10:07 AM by: ESPINO, GUILLERMO ; Saved: 9/21/2026 3:11 PM by: GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING









LEGEND

- EXISTING MUDLINE
- EXCAVATION AREA
- NORTHERN DIKE

20' 0' 20' 40'

SCALE: 1"=20'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

NORTHERN DIKE & BORROW DITCH SECTIONS (5 OF 5)

moffatt & nichol
11 N. WATER STREET,
SUITE 20220 MOBILE,
AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET
MOBILE, AL 36602

Designed by: NC		Date: 2026-09-22	Rev: REVNO
Dwn by: GE	Ckd by: PC	M&N Project No: 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG GOECKER		Drawing Scale: Plot scale: 1:1 (D SHEET)	

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet
Reference No.
C-345
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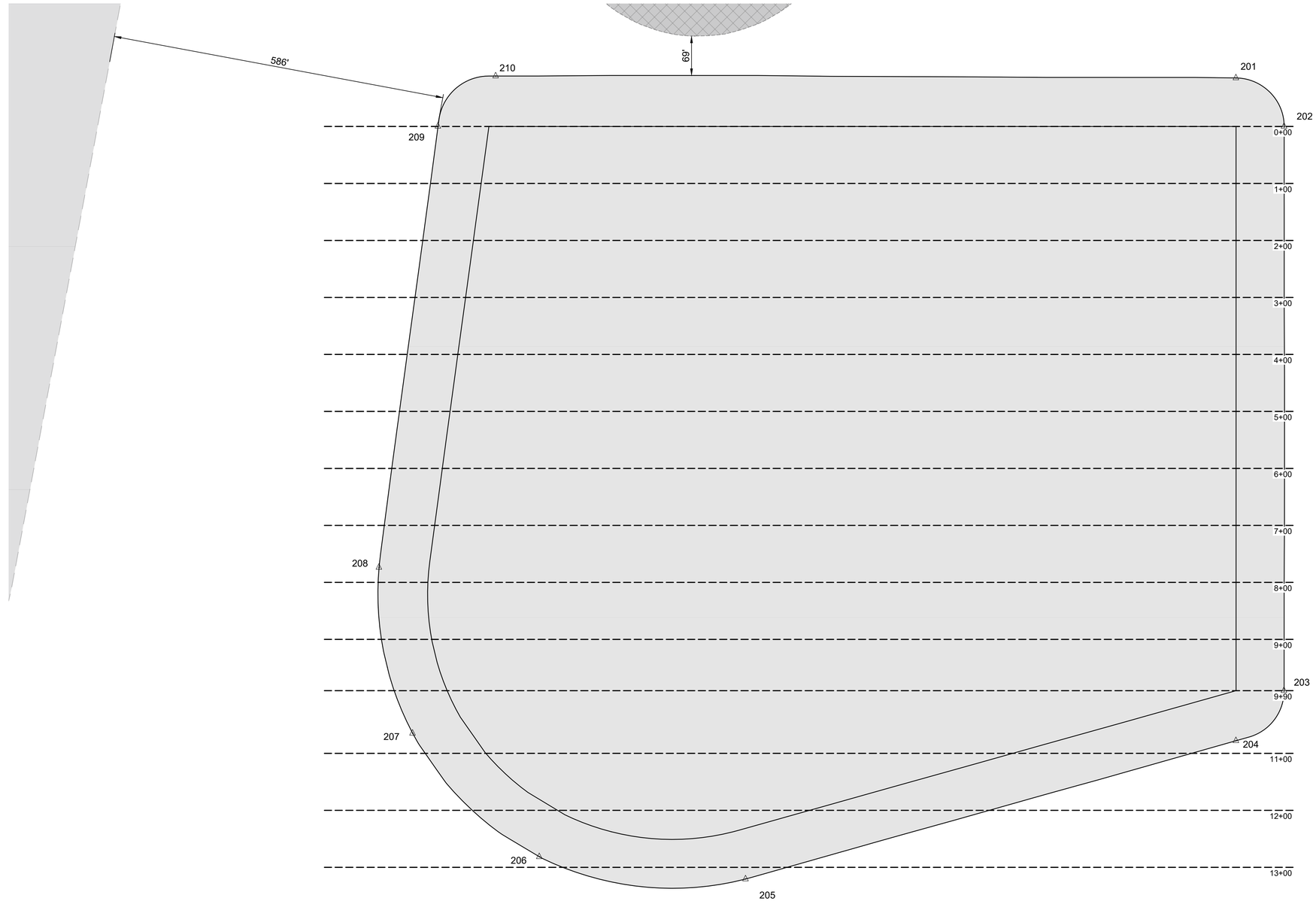
File: P:\BR\210315\20 CADD_Active_construction set\210315C-341 ; Plotted: 9/22/2026 10:08 AM by: ESPINO, GUILLERMO ; Saved: 9/21/2026 3:11 PM by: GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



NOTES:

1. NO DREDGING BELOW -20.0'.
2. THE NEATLINE BORROW VOLUME TO -20.0' IS 1,152,492 CY.
3. MATERIAL WITHIN THE LOCAL BORROW AREA SHALL ONLY BE USED TO CONSTRUCT THE SAND BERM.
4. CONTRACTOR TO MAKE OWN DETERMINATION OF SEDIMENT CHARACTERISTICS WITHIN THE LOCAL BORROW AREA BASED ON THE SOIL DATA PROVIDED IN APPENDIX A OF THE CONSTRUCTION SPECIFICATIONS.
5. THE CONTRACTOR ALONE IS RESPONSIBLE FOR DETERMINATION OF THE CUT VOLUME REQUIRED TO CONSTRUCT THE SAND BERM, WHICH IS PAID ON THE FILL.

LEGEND:

- NO BOTTOM DISTURBANCE AREA
- OBSTRUCTION AVOIDANCE AREA
- (1) ELEVATION CONTOUR
- SECTION LINE
- △ 10# WORKING POINT
- TOE / FLAT BOTTOM / SLOPE / DAYLIGHT — LOCAL BORROW AREA

100' 0' 100' 200'

SCALE: 1"=100'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

6.

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

LOCAL BORROW AREA PLAN

Designed by: NC		Date: 2026-09-22	Rev: REVNO
Dwn by: GE	Cad by: PC	M&N Project No: 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG GOECKER		Drawing Scale: Plot scale: 1:1 (0 SHEET)	

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-350
INDEX: 39 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-350 ; Plotted: 9/22/2026 10:09 AM by: ESPINO, GUILLERMO ; Saved: 8/31/2026 12:34 PM by: NCOX

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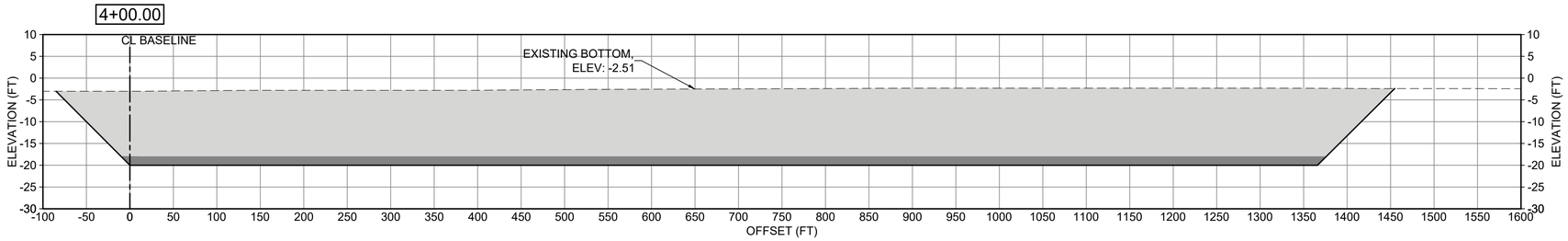
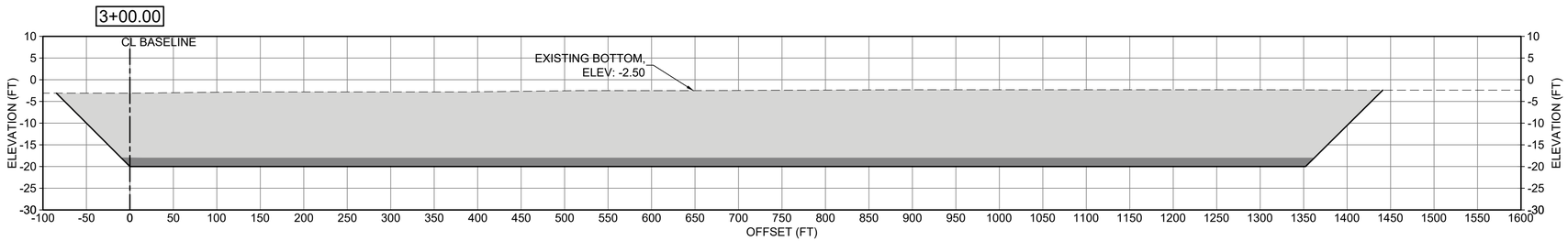
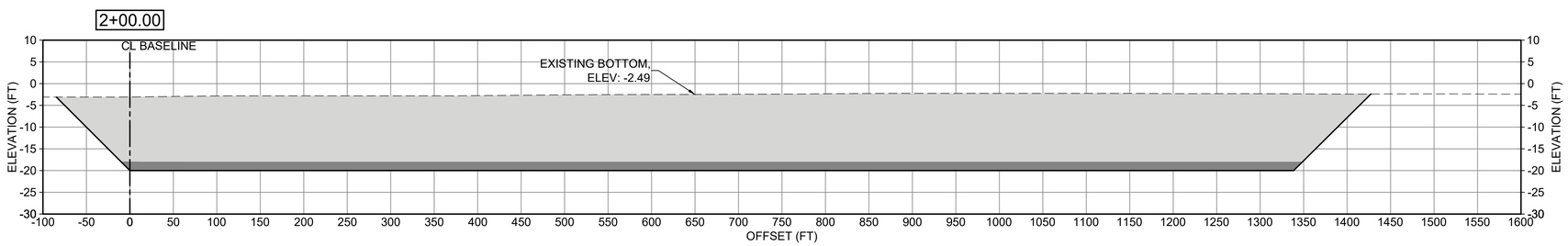
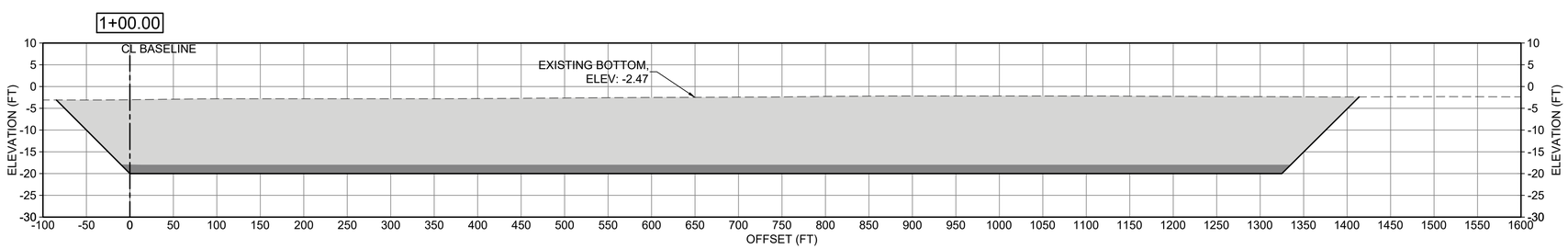
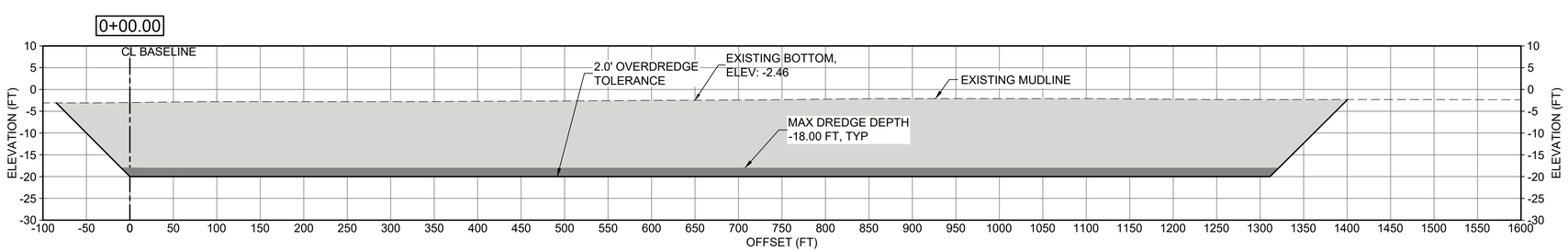










NOTES:

1. NO EXCAVATION MAY OCCUR BELOW -20'

LEGEND

- EXISTING MUDLINE
- DREDGING AREA
- 2' ALLOWABLE OVERDREDGE

16' 0' 16' 32'
VERTICAL SCALE: 1"=16'

80' 0' 80' 160'
HORIZONTAL SCALE: 1"=80'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

LOCAL BORROW AREA SECTIONS (1 OF 3)

Rev.	Date:	Designed by:	Cad by:	Drawing scale:
REV/NO	2026-09-22	NC	PC	

M&N Project No. 210315

Dwn by: GE
Reviewed by: PK
Submitted by: MEG GOECKER
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

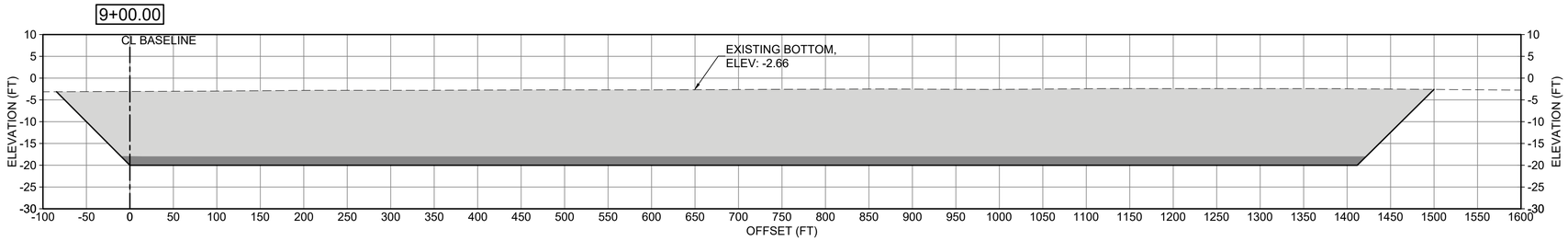
ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

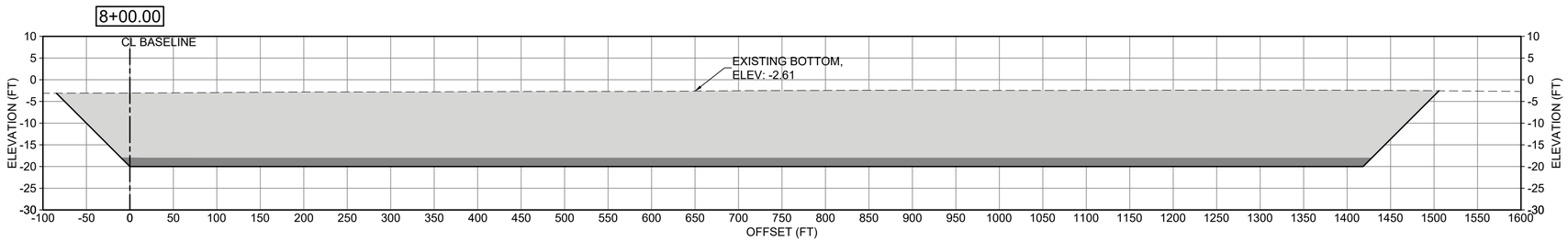
ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

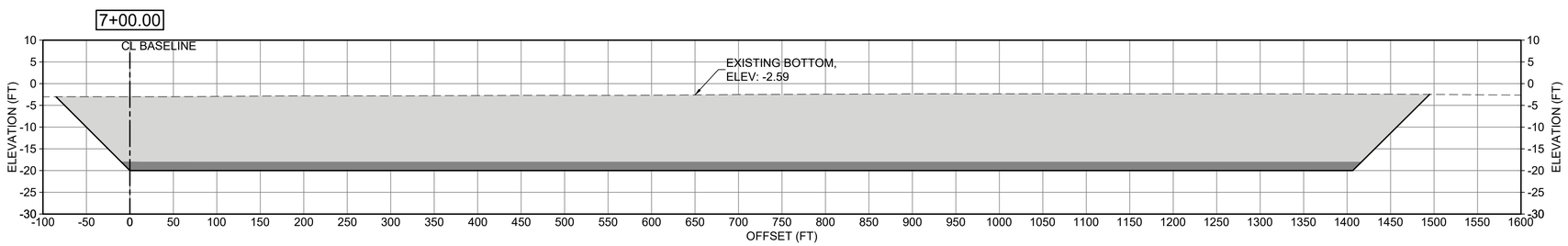
Sheet Reference No.
C-351
INDEX: 40 OF 57

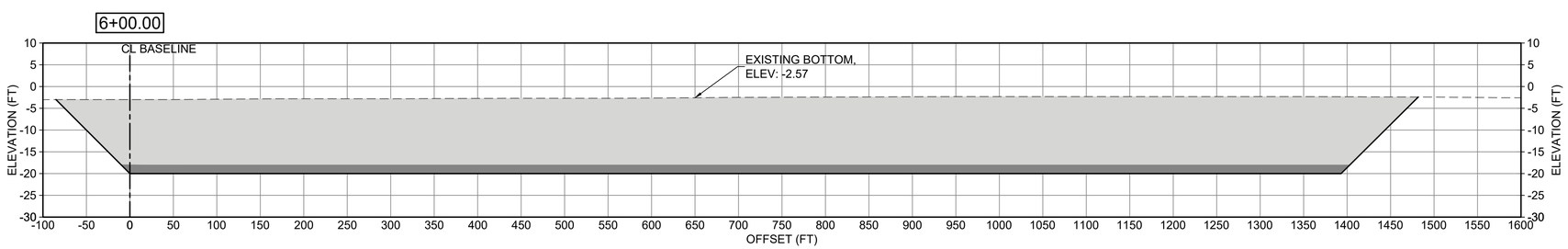
File: P:\BR\210315\20 CADD_Active_construction set\210315C-351 - Plotted: 9/22/2026 10:10 AM by ESPINO, GUILLERMO - Saved: 8/28/2026 2:33 PM by GESPINO

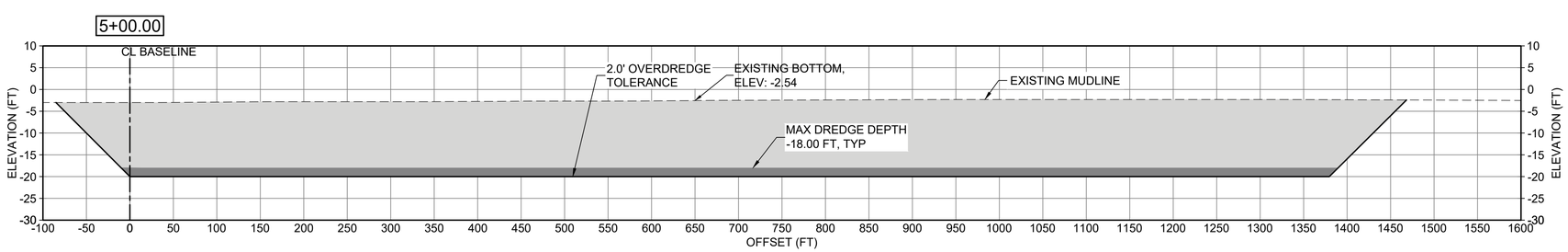
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING











NOTES:

1. NO EXCAVATION MAY OCCUR BELOW -20'

LEGEND

- EXISTING MUDLINE
- DREDGING AREA
- 2' ALLOWABLE OVERDREDGE

16' 0' 16' 32'
VERTICAL SCALE: 1"=16'

80' 0' 80' 160'
HORIZONTAL SCALE: 1"=80'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

LOCAL BORROW AREA SECTIONS (2 OF 3)

Designed by: NC	Date: 2026-09-22	Rev. REV/NO
Dwn by: GE	Cad by: PC	M&N Project No. 210315
Reviewed by: PK	Drawing code:	
Submitted by: MEG GOECKER	Drawing Scale:	Plot scale: 1:1 (D SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

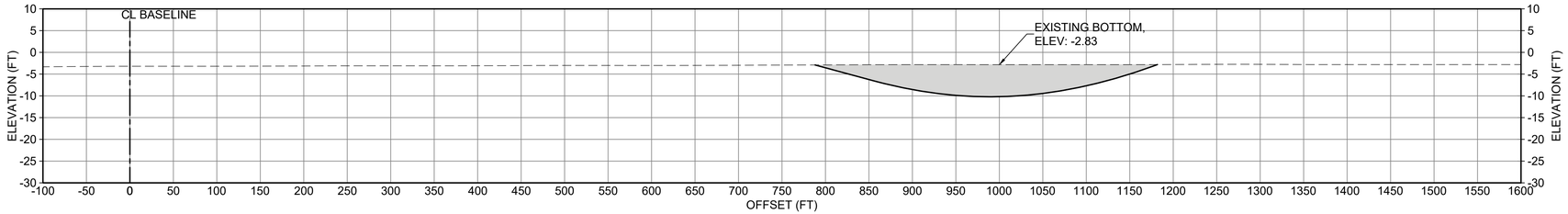
ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-352
INDEX: 41 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-351 - Plotted: 9/22/2026 10:10 AM by ESPINO, GUILLERMO - Saved: 8/28/2026 2:33 PM by GESPINO

13+00.00



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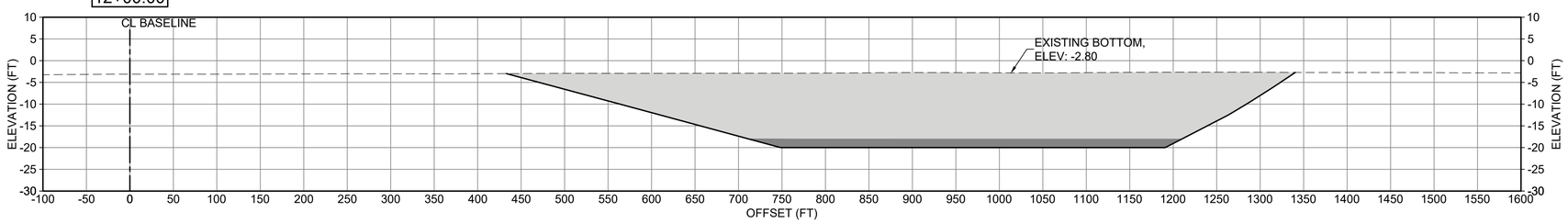

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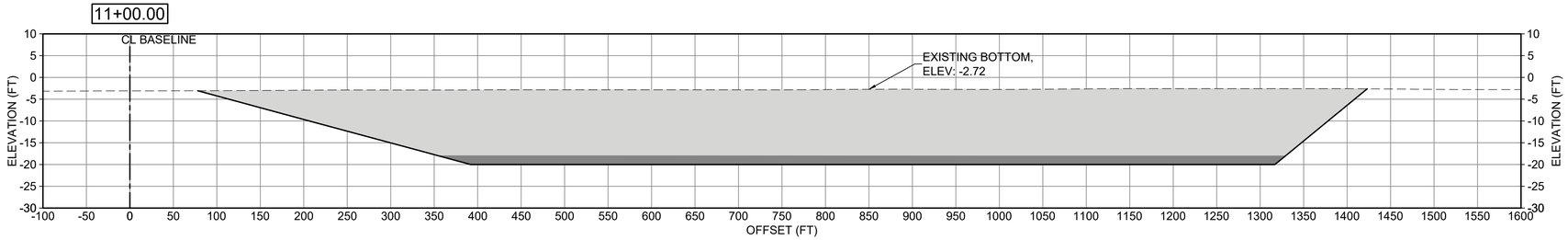

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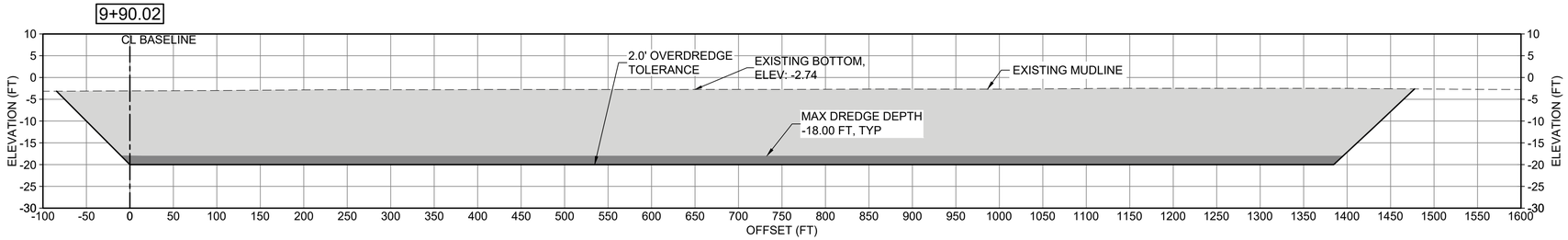


NOTES:

1. NO EXCAVATION MAY OCCUR BELOW -20'

LEGEND

- EXISTING MUDLINE
- DREDGING AREA
- 2' ALLOWABLE OVERDREDGE

16' 0' 16' 32'

VERTICAL SCALE: 1"=16'

80' 0' 80' 160'

SCALE: 1"=80'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

LOCAL BORROW AREA SECTIONS (3 OF 3)

Designed by: NC
Dwn by: GE
Cad by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Date: 2026-09-22
Rev: REVNO
M&N Project No: 210315
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

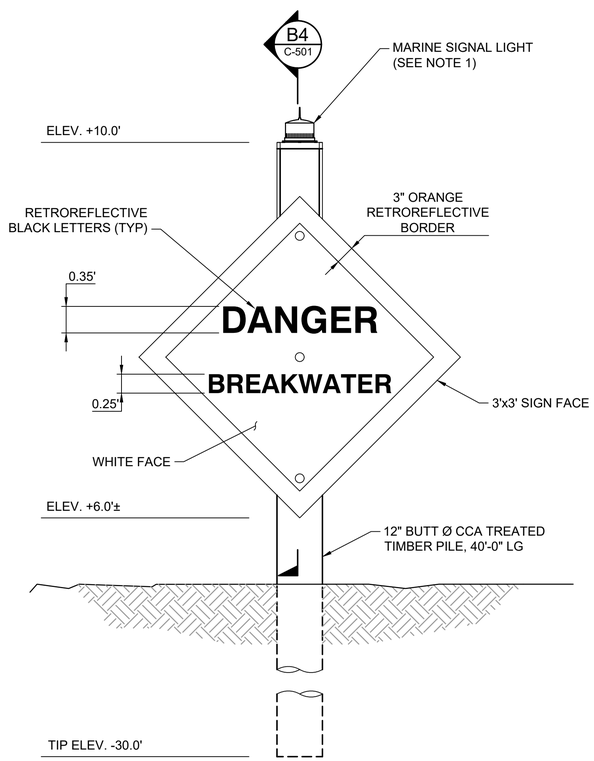
ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL
9/22/2026

Sheet Reference No.
C-353
INDEX: 42 OF 57

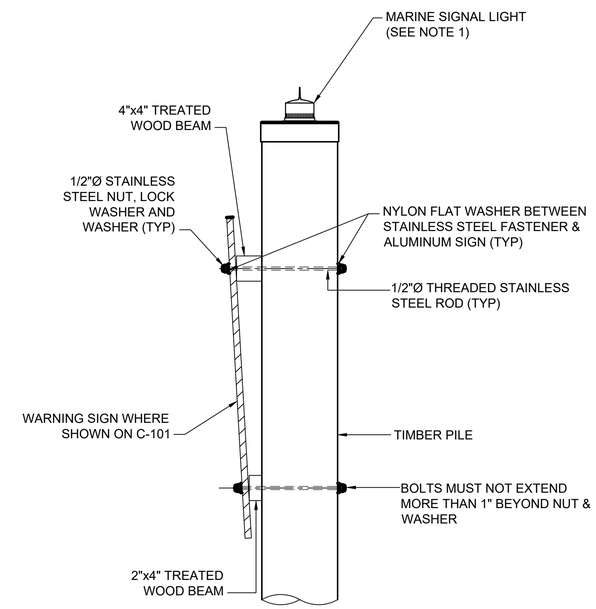
File: P:\BR\210315\20 CADD_Active_construction set\210315C-351 ; Plotted: 9/22/2026 10:10 AM by ESPINO, GUILLERMO ; Saved: 8/28/2026 2:33 PM by GESPINO

NOTES:

1. MARINE SIGNAL LIGHT SHALL BE A SEALITE SL-15 1-2NM+ OR EQUIVALENT. EQUIVALENT MARINE SIGNAL LIGHT SHALL MEET REQUIREMENTS OF CFR TITLE 33, SUBPART 67.30 FOR CLASS "C" STRUCTURES
2. CONTRACTOR SHALL COORDINATE WITH US COAST GUARD ON REQUIREMENTS OF WARNING SIGNS AND LIGHTS, INCLUDING SIGN VERBIAGE AND PLACEMENT LOCATION, PRIOR TO INSTALLATION
3. OTHER FORMS OF WARNING SIGNS MAY BE USED WITH PRIOR APPROVAL OF US COAST GUARD AND ENGINEER'S REVIEW
4. DURING CONSTRUCTION TEMPORARY WARNING SIGNS AND/OR BUOYS SHALL BE REQUIRED AS NECESSARY
5. ALL SIGN FACES SHALL BE ORIENTED TO FACE PREDOMINANT APPROACH DIRECTION OF ONCOMING BOAT TRAFFIC



B2 C-101 WARNING SIGN DETAIL - ELEVATION
SCALE: NTS



B4 C-501 WARNING SIGN DETAIL - SECTION
SCALE: NTS

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

PERMANENT WARNING SIGN DETAIL

Designed by: NC
Date: 2026-09-22
Rev. REVNO
Dwn by: GE
Ckd by: PC
M&N Project No. 210315
Drawing code:
Reviewed by: PK
Submitted by: MEG GOECKER
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-501
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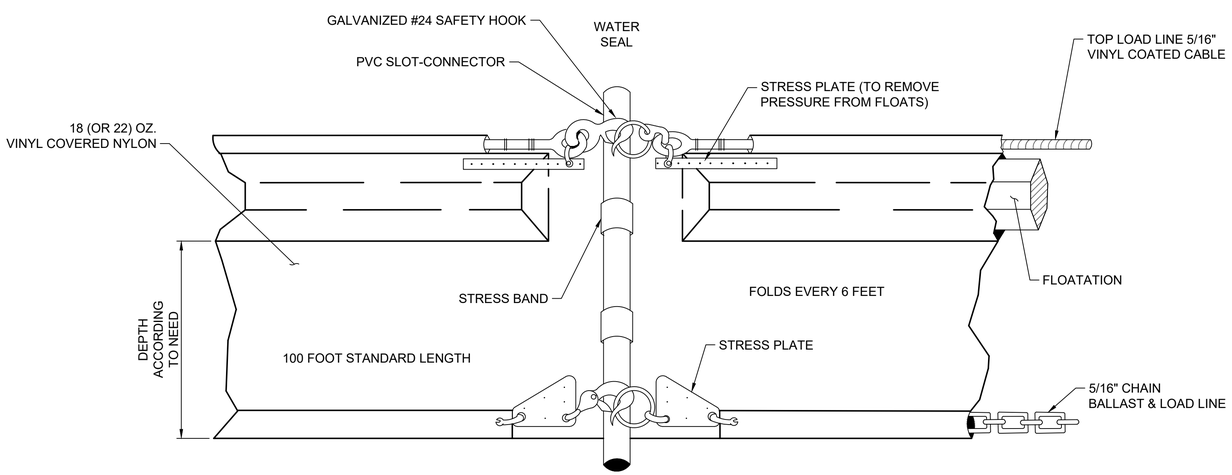
File: P:\BR\210315\20 CADD_Active_construction set\210315C-501 ; Plotted: 9/22/2026 10:11 AM by ESPINO, GUILLERMO ; Saved: 9/22/2026 8:55 AM by ABORDELON

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

TURBIDITY CONTROL NOTES:

1. CONTRACTOR SHALL SUBMIT TURBIDITY CONTROL PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN TURBIDITY CONTROL CURTAIN AROUND DREDGE FILL AREA. THE CONTRACTOR HAS THE OPTION TO ENCLOSE THE WATERSIDE OF THE SITE, WITHIN THE LIMITS OF DISTURBANCE, OR TO INSTALL AND MOVE THE CURTAIN IN STAGES. THE CONTRACTOR SHALL MAINTAIN SUCH CURTAINS AT ALL TIMES IN THE AREAS WHERE DREDGE FILL IS IN PROGRESS.
3. TURBIDITY SHALL BE MONITORED DAILY.
4. TURBIDITY CURTAINS SHALL BE SECURED WITH TEMPORARY STEEL OR TIMBER PILINGS AT SUFFICIENT SPACING TO MAINTAIN CONTROL/FUNCTION. A WEIGHT SYSTEM CAN ALSO BE UTILIZED IF PRACTICAL.
5. TURBIDITY CURTAINS SHALL BE SIMILAR TO EITHER THE TYPE II CURTAINS SHOWN ON THIS SHEET.
6. MEASURES FOR REDUCING ENTRAPMENT RISK TO PROTECTED SPECIES WILL BE IMPLEMENTED.



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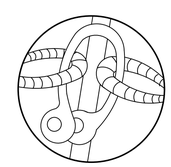

SHACKLE CONNECTION

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

TURBIDITY CURTAIN DETAIL

Designed by: NC
Date: 2026-09-22
Rev: REVNO
Dwn by: GE
Ckd by: PC
M&N Project No. 210315
Reviewed by: PK
Submitted by: MEG GOECKER
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
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File: P:\BR\210315\20 CADD_Active_construction set\210315C-502 - Plotted: 9/22/2026 10:12 AM by ESPINO, GUILLERMO - Saved: 8/28/2026 3:25 PM by GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

BORING POINT TABLE

POINT #	DEPTH	NORTHING	EASTING
B-1	50'	231116.01	1807332.03
B-2	20'	231122.44	1807831.94
B-3	50'	231125.69	1808328.27
B-4	20'	231120.97	1808828.27
B-5	50'	231128.25	1809328.26
B-6	20'	231125.03	1809828.26
B-7	50'	231132.06	1810328.26
B-8	20'	231315.26	1810763.73
B-9	50'	231765.95	1810954.95
B-10	20'	232257.43	1811052.65
B-11	50'	232324.03	1810558.57
B-12	20'	232326.09	1810058.57
B-13	50'	232331.14	1809558.58
B-14	20'	232325.70	1809058.58
B-15	80'	232332.25	1808558.58
B-16	20'	232343.31	1808058.59
B-17	50'	232336.36	1807558.59
B-19	50'	232185.22	1806869.51
B-20	20'	231792.58	1806848.55
B-21	50'	231283.71	1806963.38
B-22	50'	231636.01	1807566.98
B-23	60'	231926.76	1808220.30
B-24	50'	231795.19	1809547.01
B-25	50'	231903.65	1810319.18
B-26	20'	233373.56	1807029.71
B-27	50'	233782.18	1809314.04
B-28	20'	235169.07	1809629.79
B-29	50'	234693.37	1811881.32
B-30	50'	234934.60	1813858.27
B-31	20'	233794.34	1813546.58

BORING POINT TABLE

POINT #	DEPTH	NORTHING	EASTING
B-32	70'	232974.63	1811980.06
B-33	20'	234221.83	1808277.45
B-34	60'	232903.39	1807916.99
B-35	50'	234176.28	1810654.18
B-36	50'	233072.03	1810500.48
B-37	20'	234213.34	1812813.23
B-38	50'	234693.51	1807290.47
B-39	20'	235493.67	1807606.46
B-40	20'	235964.76	1807611.17
B-41	20'	236573.51	1807393.30
B-42	50'	237672.26	1808854.37
B-44	50'	236812.28	1814169.51
B-45	20'	236125.06	1811216.59
B-46	50'	236125.06	1812416.59
B-47	20'	235649.11	1813922.35
B-48	50'	235159.72	1812839.20
B-49	20'	235140.34	1810777.25
B-50	20'	237419.98	1807644.00
B-51	70'	236530.33	1809093.20
B-52	20'	237009.11	1813270.74
B-53	20'	235105.81	1808483.62
B-54	20'	237561.60	1810044.36
B-55	50'	237525.67	1811244.36
B-56	20'	237525.67	1812444.36
B-57	50'	240250.86	1813432.60
B-58	20'	239369.92	1813797.66
B-59	50'	238125.68	1813992.18
B-60	20'	238327.51	1807670.16
B-61	20'	239904.19	1808872.34
B-62	50'	239824.56	1810939.52

BORING POINT TABLE

POINT #	DEPTH	NORTHING	EASTING
B-63	20'	239095.03	1808877.01
B-64	70'	239774.29	1812730.73
B-65	20'	238925.00	1811274.00
B-66	50'	239051.11	1810140.97
B-67	20'	238297.84	1809989.25
B-68	50'	237911.71	1811814.35
B-69	20'	232710.58	1808775.69
B-70	20'	232759.20	1809820.13
B-71	20'	238693.95	1812950.67
B-72	50'	239323.75	1807788.95
B-73	50'	240412.93	1808055.75
B-74	50'	240482.85	1809850.96
B-75	20'	240419.41	1811963.92
B-76	20'	234574.29	1806315.71
B-77	20'	233070.72	1806139.13
B-78	20'	232136.47	1806139.56
B-79	20'	231121.58	1806137.97
B-80	20'	230230.57	1806286.01
B-81	20'	229933.08	1806928.39
B-82	20'	229936.72	1808193.84
B-83	20'	229935.76	1809291.64
B-84	20'	230065.91	1810522.68
B-85	20'	230620.77	1810748.62

WEST PIPELINE POINT TABLE

POINT #	NORTHING	EASTING
101	236980.03	1800865.30
102	235010.92	1800769.53
103	234635.14	1801836.74
104	234596.48	1806901.50

EAST PIPELINE POINT TABLE

POINT #	NORTHING	EASTING
105	243142.04	1801059.76
106	243418.09	1802009.16
107	243303.89	1802126.68
108	242794.65	1802988.82
109	241932.30	1802989.52
110	241600.70	1802270.77
111	240909.73	1801873.20
112	234674.92	1801873.85
113	234635.17	1801893.72

LOCAL BORROW AREA COORDINATES TABLE

POINT #	NORTHING	EASTING
201	236472.97	1808884.12
202	236387.82	1808968.62
203	235397.82	1808968.46
204	235310.02	1808884.12
205	235067.39	1808023.45
206	235106.36	1807661.43
207	235323.05	1807439.04
208	235614.14	1807380.04
209	236388.13	1807483.55
210	236476.32	1807584.85

BORROW DITCH - SECONDARY COORDINATES TABLE

POINT #	NORTHING	EASTING
BDS-L-1	232549.35	1807042.56
BDS-L-2	232549.59	1807292.56
BDS-L-3	232549.58	1807492.56
BDS-L-4	232549.72	1807692.56
BDS-L-5	232549.96	1807892.56
BDS-L-6	232550.40	1808092.56
BDS-L-7	232550.73	1808292.56
BDS-L-8	232550.94	1808492.56
BDS-L-9	232551.26	1808692.56
BDS-L-10	232551.49	1808892.56
BDS-L-11	232551.27	1809092.56
BDS-L-12	232551.43	1809292.56
BDS-L-13	232551.76	1809492.56
BDS-L-14	232551.73	1809692.56
BDS-L-15	232552.18	1809892.56
BDS-L-16	232552.33	1810092.56
BDS-L-17	232552.36	1810292.56
BDS-L-18	232552.10	1810492.56
BDS-L-19	232552.00	1810692.56
BDS-L-20	232551.83	1810942.56
BDS-R-1	232428.56	1807042.56
BDS-R-2	232429.20	1807292.56
BDS-R-3	232429.93	1807492.56
BDS-R-4	232430.45	1807692.56
BDS-R-5	232430.77	1807892.56
BDS-R-6	232431.03	1808092.56
BDS-R-7	232431.42	1808292.56
BDS-R-8	232431.75	1808492.56
BDS-R-9	232432.07	1808692.56
BDS-R-10	232432.63	1808892.56
BDS-R-11	232433.41	1809092.56
BDS-R-12	232433.84	1809292.56
BDS-R-13	232434.16	1809492.56
BDS-R-14	232434.79	1809692.56
BDS-R-15	232434.99	1809892.56
BDS-R-16	232435.57	1810092.56
BDS-R-17	232436.26	1810292.56
BDS-R-18	232437.04	1810494.27
BDS-R-19	232437.04	1810692.56
BDS-R-20	232438.86	1810942.56

BORROW DITCH - PRIMARY COORDINATES TABLE

POINT #	NORTHING	EASTING
BDP-L-1	232298.23	1807042.56
BDP-L-2	232297.48	1807292.56
BDP-L-3	232296.93	1807492.56
BDP-L-4	232296.45	1807692.56
BDP-L-5	232296.16	1807892.56
BDP-L-6	232296.16	1808092.56
BDP-L-7	232296.16	1808292.56
BDP-L-8	232295.21	1808492.56
BDP-L-9	232294.91	1808692.56
BDP-L-10	232294.25	1808892.56
BDP-L-11	232293.61	1809092.56
BDP-L-12	232293.32	1809292.56
BDP-L-13	232293.01	1809492.56
BDP-L-14	232292.67	1809692.56
BDP-L-15	232292.67	1809892.56
BDP-L-16	232291.64	1810092.56
BDP-L-17	232290.89	1810292.56
BDP-L-18	232290.31	1810492.56
BDP-L-19	232289.68	1810692.56
BDP-L-20	232288.60	1810942.56
BDP-R-1	232177.57	1807042.56
BDP-R-2	232177.66	1807292.56
BDP-R-3	232177.47	1807492.56
BDP-R-4	232177.24	1807692.56
BDP-R-5	232176.95	1807892.56
BDP-R-6	232176.66	1808092.56
BDP-R-7	232176.36	1808292.56
BDP-R-8	232176.31	1808492.56
BDP-R-9	232176.09	1808692.56
BDP-R-10	232176.13	1808892.56
BDP-R-11	232176.00	1809092.56
BDP-R-12	232175.71	1809292.56
BDP-R-13	232175.61	1809492.56
BDP-R-14	232175.53	1809692.56
BDP-R-15	232175.18	1809892.56
BDP-R-16	232175.13	1810092.56
BDP-R-17	232175.34	1810292.56
BDP-R-18	232175.29	1810492.56
BDP-R-19	232175.39	1810692.56
BDP-R-20	232175.57	1810942.56

NORTHERN DIKE COORDINATES TABLE

POINT #	NORTHING	EASTING
ND-0	232364.45	1806921.49
ND-1	232364.45	1807042.56
ND-2	232364.45	1807292.56
ND-3	232364.45	1807492.56
ND-4	232364.45	1807692.56
ND-5	232361.95	1807892.56
ND-6	232364.45	1808092.56
ND-7	232364.45	1808292.56
ND-8	232364.45	1808492.56
ND-9	232364.45	1808692.56
ND-10	232364.45	1808892.56
ND-11	232364.45	1809092.56
ND-12	232364.45	1809292.56
ND-13	232364.45	1809492.56
ND-14	232364.45	1809692.56
ND-15	232364.45	1809892.56
ND-16	232364.45	1810092.56
ND-17	232364.45	1810292.56
ND-18	232364.45	1810492.56
ND-19	232364.45	1810692.56
ND-20	232364.45	1810942.56
ND-21	232364.45	1811095.96

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GENERAL COORDINATES TABLES

Designed by: NC
Dwn by: GE
Cad by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Date: 2026-09-22
Rev: REV/NO
M&N Project No: 210315
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL 9/22/2026

Sheet Reference No.
C-601
INDEX: 45 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-601 ; Plotted: 9/22/2026 10:13 AM by ESPINO, GUILLERMO ; Saved: 8/28/2026 2:01 PM by GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

SAND BERM COORDINATES TABLE

POINT #	NORTHING	EASTING
SB-0	232495.12	1811185.88
SB-1	232477.86	1811173.45
SB-2	232370.03	1811114.27
SB-3	232255.34	1811078.00
SB-4	232144.80	1811048.61
SB-5	232034.28	1811019.23
SB-6	231923.68	1810989.83
SB-7	231813.02	1810960.41
SB-8	231702.07	1810930.92
SB-9	231590.98	1810901.38
SB-10	231479.98	1810871.88
SB-11	231373.57	1810841.36
SB-12	231277.89	1810795.88
SB-13	231192.32	1810732.64
SB-14	231120.21	1810653.77
SB-15	231064.55	1810562.23
SB-16	231027.59	1810461.48
SB-17	231010.80	1810355.10
SB-18	231009.83	1810240.82
SB-19	231009.83	1810123.22
SB-20	231009.83	1810005.42
SB-21	231009.83	1809887.62
SB-22	231009.83	1809769.57
SB-23	231009.83	1809651.27
SB-24	231009.84	1809532.87
SB-25	231009.84	1809414.17
SB-26	231009.84	1809295.32
SB-27	231009.84	1809176.47
SB-28	231009.84	1809057.52
SB-29	231009.84	1808938.57
SB-30	231009.84	1808819.12
SB-31	231009.84	1808699.27
SB-32	231009.84	1808579.47
SB-33	231009.84	1808459.32
SB-34	231009.84	1808339.07
SB-35	231009.84	1808218.92
SB-36	231009.84	1808098.92
SB-37	231009.84	1807978.82
SB-38	231009.84	1807858.37
SB-39	231009.84	1807737.92
SB-40	231009.84	1807617.47
SB-41	231009.84	1807497.12
SB-42	231012.26	1807381.31
SB-43	231033.55	1807272.72
SB-44	231076.09	1807170.56
SB-45	231138.16	1807078.96
SB-46	231217.31	1807001.56
SB-47	231310.40	1806941.49
SB-48	231413.75	1806901.20
SB-49	231523.74	1806882.35
SB-50	231641.93	1806881.31
SB-51	231763.96	1806881.72
SB-52	231886.51	1806882.13
SB-53	232010.06	1806882.55
SB-54	232134.38	1806882.97
SB-55	232254.23	1806892.62
SB-56	232379.00	1806908.15
SB-57	232404.29	1806911.30

BREAKWATER COORDINATES TABLE

POINT #	NORTHING	EASTING
BW-1-B	232466.21	1811224.81
BW-1-E	232333.17	1811151.82
BW-2-B	232261.51	1811129.82
BW-2-E	232223.79	1811119.79
BW-3-B	232151.31	1811100.52
BW-3-E	232113.37	1811090.44
BW-4-B	232040.89	1811071.17
BW-4-E	232002.73	1811061.03
BW-5-B	231930.25	1811041.76
BW-5-E	231892.14	1811031.63
BW-6-B	231819.66	1811012.36
BW-6-E	231781.42	1811002.19
BW-7-B	231708.94	1810982.93
BW-7-E	231670.33	1810972.66
BW-8-B	231597.85	1810953.39
BW-8-E	231559.24	1810943.13
BW-9-B	231486.75	1810923.86
BW-9-E	231448.10	1810913.58
BW-10-B	231375.86	1810893.46
BW-10-E	231338.15	1810879.79
BW-11-B	231270.45	1810847.62
BW-11-E	231235.72	1810826.81
BW-12-B	231175.43	1810782.28
BW-12-E	231144.71	1810754.62
BW-13-B	231094.13	1810699.30
BW-13-E	231069.20	1810666.07
BW-14-B	231030.25	1810602.04
BW-14-E	231012.04	1810564.26
BW-15-B	230986.23	1810493.89
BW-15-E	230975.69	1810453.30
BW-16-B	230963.99	1810379.26
BW-16-E	230961.50	1810337.09
BW-17-B	230961.33	1810262.10
BW-17-E	230961.33	1810219.65
BW-18-B	230961.33	1810144.65
BW-18-E	230961.33	1810101.75
BW-19-B	230961.33	1810026.75
BW-19-E	230961.33	1809984.11
BW-20-B	230961.33	1809909.11
BW-20-E	230961.33	1809866.16
BW-21-B	230961.34	1809791.16
BW-21-E	230961.34	1809747.98
BW-22-B	230961.34	1809672.98
BW-22-E	230961.34	1809629.61
BW-23-B	230961.34	1809554.61
BW-23-E	230961.34	1809511.16
BW-24-B	230961.34	1809436.16
BW-24-E	230961.34	1809392.21
BW-25-B	230961.34	1809317.21
BW-25-E	230961.34	1809273.45
BW-26-B	230961.34	1809198.45
BW-26-E	230961.34	1809154.50
BW-27-B	230961.34	1809079.50
BW-27-E	230961.34	1809035.55
BW-28-B	230961.34	1808960.55
BW-28-E	230961.34	1808916.53

BREAKWATER COORDINATES TABLE

POINT #	NORTHING	EASTING
BW-29-B	230961.34	1808841.53
BW-29-E	230961.34	1808796.68
BW-30-B	230961.34	1808721.68
BW-30-E	230961.34	1808676.85
BW-31-B	230961.34	1808601.85
BW-31-E	230961.34	1808557.03
BW-32-B	230961.34	1808482.03
BW-32-E	230961.34	1808436.58
BW-33-B	230961.34	1808361.58
BW-33-E	230961.34	1808316.56
BW-34-B	230961.34	1808241.56
BW-34-E	230961.34	1808196.30
BW-35-B	230961.34	1808121.30
BW-35-E	230961.34	1808076.56
BW-36-B	230961.34	1808001.56
BW-36-E	230961.34	1807956.11
BW-37-B	230961.34	1807881.11
BW-37-E	230961.34	1807835.66
BW-38-B	230961.34	1807760.66
BW-38-E	230961.34	1807715.21
BW-39-B	230961.34	1807640.21
BW-39-E	230961.34	1807594.76
BW-40-B	230961.34	1807519.76
BW-40-E	230961.34	1807474.31
BW-41-B	230962.26	1807399.33
BW-41-E	230966.49	1807354.09
BW-42-B	230980.91	1807280.54
BW-42-E	230994.08	1807237.05
BW-43-B	231022.87	1807167.85
BW-43-E	231044.62	1807127.57
BW-44-B	231086.67	1807065.53
BW-44-E	231115.81	1807030.66
BW-45-B	231169.39	1806978.25
BW-45-E	231205.17	1806949.68
BW-46-B	231268.15	1806909.05
BW-46-E	231308.80	1806888.27
BW-47-B	231378.63	1806861.03
BW-47-E	231423.04	1806848.69
BW-48-B	231496.91	1806836.01
BW-48-E	231543.50	1806832.80
BW-49-B	231618.50	1806832.73
BW-49-E	231665.51	1806832.89
BW-50-B	231740.51	1806833.14
BW-50-E	231787.73	1806833.30
BW-51-B	231862.73	1806833.55
BW-51-E	231910.65	1806833.71
BW-52-B	231985.65	1806833.96
BW-52-E	232034.83	1806834.13
BW-53-B	232109.83	1806834.38
BW-53-E	232160.02	1806834.75
BW-54-B	232234.70	1806841.32
BW-54-E	232285.26	1806847.61
BW-55-B	232359.68	1806856.87
BW-55-E	232535.25	1806878.73

WEIR BOX SUPPORT COORDINATES TABLE

POINT #	NORTHING	EASTING
WB-1	231969.65	1810949.22
WB-2	231903.93	1810931.75
WB-3	231964.34	1810924.51
WB-4	231920.81	1810912.94
WB-5	231944.76	1810910.53

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BREAKWATER COORDINATES TABLES

Designed by: NC
Date: 2026-09-22
Rev: REVNO
Dwn by: GE
Ckd by: PC
M&N Project No. 210315
Reviewed by: PK
Submitted by: MEG GOECKER
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET
MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
9/22/2026
SEAL

Sheet Reference No.
C-602
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File: P:\BR\210315\20 CADD_Active_construction set\210315C-602 ; Plotted: 9/22/2026 10:14 AM by ESPINO, GUILLERMO ; Saved: 8/12/2026 1:53 PM by GESPINO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

SAND BERM COORDINATES TABLE

POINT #	NORTHING	EASTING
SB-1	232457.41	1811203.70
SB-2	232358.43	1811141.41
SB-3	232247.13	1811106.21
SB-4	232137.63	1811077.10
SB-5	232026.74	1811047.62
SB-6	231916.13	1811018.22
SB-7	231805.47	1810988.80
SB-8	231694.53	1810959.30
SB-9	231583.43	1810929.77
SB-10	231472.34	1810900.24
SB-11	231363.14	1810868.93
SB-12	231262.71	1810821.19
SB-13	231172.56	1810754.56
SB-14	231096.60	1810671.48
SB-15	231037.96	1810575.04
SB-16	230999.02	1810468.89
SB-17	230981.45	1810357.53
SB-18	230980.46	1810240.95
SB-19	230980.46	1810123.22
SB-20	230980.46	1810005.42
SB-21	230980.46	1809887.62
SB-22	230980.46	1809769.57
SB-23	230980.46	1809651.27
SB-24	230980.46	1809532.87
SB-25	230980.46	1809414.17
SB-26	230980.46	1809295.32
SB-27	230980.46	1809176.47
SB-28	230980.46	1809057.52
SB-29	230980.46	1808938.57
SB-30	230980.46	1808819.12
SB-31	230980.46	1808699.27
SB-32	230980.46	1808579.47
SB-33	230980.46	1808459.32
SB-34	230980.46	1808339.07
SB-35	230980.46	1808218.92
SB-36	230980.46	1808098.92
SB-37	230980.46	1807978.82
SB-38	230980.46	1807858.37
SB-39	230980.46	1807737.92
SB-40	230980.46	1807617.47
SB-41	230980.46	1807496.81
SB-42	230982.94	1807378.15
SB-43	231005.30	1807264.16
SB-44	231050.11	1807156.54
SB-45	231115.50	1807060.03
SB-46	231198.89	1806978.49
SB-47	231296.96	1806915.20
SB-48	231405.86	1806872.75
SB-49	231521.12	1806853.00
SB-50	231641.85	1806851.93
SB-51	231764.06	1806852.34
SB-52	231886.61	1806852.76
SB-53	232010.10	1806872.55
SB-54	232135.61	1806853.60
SB-55	232257.22	1806863.39
SB-56	232353.31	1806875.35
SB-57	232395.16	1806873.38

ARMOR STONE COORDINATES TABLE

POINT #	NORTHING	EASTING
AS-0	232466.21	1811224.82
AS-1	232451.93	1811214.54
AS-1.1	232478.45	1811208.43
AS-1.2	232462.23	1811196.74
AS-2	232350.87	1811159.08
AS-3	232241.79	1811124.58
AS-4	232132.33	1811095.48
AS-5	232021.82	1811066.10
AS-6	231911.22	1811036.70
AS-7	231800.56	1811007.28
AS-8	231689.61	1810977.79
AS-9	231578.52	1810948.26
AS-10	231467.07	1810918.63
AS-11	231356.36	1810886.88
AS-12	231252.83	1810837.67
AS-13	231159.70	1810768.84
AS-14	231081.23	1810683.01
AS-15	231020.65	1810583.38
AS-16	230980.42	1810473.72
AS-17	230962.34	1810359.11
AS-18	230961.33	1810241.03
AS-19	230961.33	1810123.22
AS-20	230961.33	1810005.42
AS-21	230961.33	1809887.62
AS-22	230961.34	1809769.57
AS-23	230961.34	1809651.27
AS-24	230961.34	1809532.87
AS-25	230961.34	1809414.17
AS-26	230961.34	1809295.32
AS-27	230961.34	1809176.47
AS-28	230961.34	1809057.52
AS-29	230961.34	1808938.57
AS-30	230961.34	1808819.12
AS-31	230961.34	1808699.27
AS-32	230961.34	1808579.47
AS-33	230961.34	1808459.32
AS-34	230961.34	1808339.07
AS-35	230961.34	1808218.92
AS-36	230961.34	1808098.92
AS-37	230961.34	1807978.82
AS-38	230961.34	1807858.37
AS-39	230961.34	1807737.92
AS-40	230961.34	1807617.47
AS-41	230961.34	1807496.61
AS-42	230963.86	1807376.09
AS-43	230986.90	1807258.59
AS-44	231033.19	1807147.41
AS-45	231100.75	1807047.70
AS-46	231186.90	1806963.46
AS-47	231288.22	1806898.08
AS-48	231400.72	1806854.23
AS-49	231519.40	1806833.89
AS-50	231641.79	1806832.81
AS-51	231764.13	1806833.22
AS-52	231886.68	1806833.63
AS-53	232010.22	1806834.05
AS-54	232136.41	1806834.47
AS-55	232259.17	1806844.36
AS-56	232355.67	1806856.37
AS-57	232410.28	1806863.17

ARMOR STONE COORDINATES TABLE

POINT #	NORTHING	EASTING
AS-58	232484.67	1806872.45
AS-59	232482.12	1806892.88
AS-60	232462.28	1806890.40

LEFT GEOTUBE COORDINATES TABLE

POINT #	NORTHING	EASTING
GL-0	232475.03	1811213.01
GL-1	232459.81	1811202.05
GL-2	232356.69	1811145.46
GL-3	232245.91	1811110.42
GL-4	232136.12	1811081.24
GL-5	232025.61	1811051.86
GL-6	231915.00	1811022.45
GL-7	231804.35	1810993.04
GL-8	231693.40	1810963.54
GL-9	231582.31	1810934.01
GL-10	231470.99	1810904.42
GL-11	231361.59	1810873.05
GL-12	231260.44	1810824.97
GL-13	231169.61	1810757.84
GL-14	231093.07	1810674.12
GL-15	231033.99	1810576.95
GL-16	230994.76	1810470.00
GL-17	230977.07	1810357.89
GL-18	230976.07	1810240.97
GL-19	230976.07	1810123.22
GL-20	230976.07	1810005.42
GL-21	230976.07	1809887.62
GL-22	230976.07	1809769.57
GL-23	230976.08	1809651.27
GL-24	230976.08	1809532.87
GL-25	230976.08	1809414.17
GL-26	230976.08	1809295.32
GL-27	230976.08	1809176.47
GL-28	230976.08	1809057.52
GL-29	230976.08	1808938.57
GL-30	230976.08	1808819.12
GL-31	230976.08	1808699.27
GL-32	230976.08	1808579.47
GL-33	230976.08	1808459.32
GL-34	230976.08	1808339.07
GL-35	230976.08	1808218.92
GL-36	230976.08	1808098.92
GL-37	230976.08	1807978.82
GL-38	230976.08	1807858.37
GL-39	230976.08	1807737.92
GL-40	230976.08	1807617.47
GL-41	230976.08	1807496.77
GL-42	230978.57	1807377.68
GL-43	231001.08	1807262.88
GL-44	231046.23	1807154.44
GL-45	231112.12	1807057.20
GL-46	231196.14	1806975.04
GL-47	231294.96	1806911.27
GL-48	231404.68	1806868.51
GL-49	231520.72	1806848.62
GL-50	231641.83	1806847.55
GL-51	231764.08	1806847.96
GL-52	231886.63	1806848.37
GL-53	232010.18	1806848.79
GL-54	232135.79	1806849.21
GL-55	232257.67	1806859.03
GL-56	232383.17	1806874.65
GL-57	232408.42	1806877.79

CENTER GEOTUBE COORDINATES TABLE

POINT #	NORTHING	EASTING
GC-0	232471.29	1811218.02
GC-1	232456.47	1811207.35
GC-2	232354.22	1811151.24
GC-3	232244.16	1811116.42
GC-4	232134.52	1811087.28
GC-5	232024.00	1811057.90
GC-6	231913.40	1811028.49
GC-7	231802.74	1810999.08
GC-8	231691.79	1810969.58
GC-9	231580.70	1810940.05
GC-10	231469.33	1810910.44
GC-11	231359.37	1810878.92
GC-12	231257.21	1810830.35
GC-13	231165.41	1810762.50
GC-14	231088.05	1810677.89
GC-15	231028.33	1810579.68
GC-16	230988.68	1810471.58
GC-17	230970.82	1810358.41
GC-18	230969.82	1810240.99
GC-19	230969.82	1810123.22
GC-20	230969.82	1810005.42
GC-21	230969.82	1809887.62
GC-22	230969.83	1809769.57
GC-23	230969.83	1809651.27
GC-24	230969.83	1809532.87
GC-25	230969.83	1809414.17
GC-26	230969.83	1809295.32
GC-27	230969.83	1809176.47
GC-28	230969.83	1809057.52
GC-29	230969.83	1808938.57
GC-30	230969.83	1808819.12
GC-31	230969.83	1808699.27
GC-32	230969.83	1808579.47
GC-33	230969.83	1808459.32
GC-34	230969.83	1808339.07
GC-35	230969.83	1808218.92
GC-36	230969.83	1808098.92
GC-37	230969.83	1807978.82
GC-38	230969.83	1807858.37
GC-39	230969.83	1807737.92
GC-40	230969.83	1807617.47
GC-41	230969.83	1807496.70
GC-42	230972.33	1807377.01
GC-43	230995.07	1807261.06
GC-44	231040.70	1807151.46
GC-45	231107.30	1807053.17
GC-46	231192.22	1806970.13
GC-47	231292.10	1806905.68
GC-48	231403.00	1806862.45
GC-49	231520.16	1806842.37
GC-50	231641.82	1806841.30
GC-51	231764.10	1806841.71
GC-52	231886.65	1806842.12
GC-53	232010.20	1806842.54
GC-54	232136.05	1806842.96
GC-55	232258.31	1806852.81
GC-56	232383.94	1806868.45
GC-57	232409.20	1806871.59

RIGHT GEOTUBE COORDINATES TABLE

POINT #	NORTHING	EASTING
GR-0	232467.55	1811223.03
GR-1	232453.13	1811212.64
GR-2	232351.76	1811157.01
GR-3	232242.41	1811122.43
GR-4	232132.91	1811093.32
GR-5	232022.40	1811063.94
GR-6	231911.79	1811034.53
GR-7	231801.13	1811005.12
GR-8	231690.19	1810975.62
GR-9	231579.10	1810946.09
GR-10	231467.67	1810916.47
GR-11	231357.15	1810884.78
GR-12	231253.99	1810835.74
GR-13	231161.21	1810767.17
GR-14	231083.03	1810681.66
GR-15	231022.67	1810582.40
GR-16	230982.60	1810473.16
GR-17	230964.57	1810358.92
GR-18	230963.57	1810241.02
GR-19	230963.57	1810123.22
GR-20	230963.57	1810005.42
GR-21	230963.57	1809887.62
GR-22	230963.58	1809769.57
GR-23	230963.58	1809651.27
GR-24	230963.58	1809532.87
GR-25	230963.58	1809414.17
GR-26	230963.58	1809295.32
GR-27	230963.58	1809176.47
GR-28	230963.58	1809057.52
GR-29	230963.58	1808938.57
GR-30	230963.58	1808819.12
GR-31	230963.58	1808699.27
GR-32	230963.58	1808579.47
GR-33	230963.58	1808459.32
GR-34	230963.58	1808339.07
GR-35	230963.58	1808218.92
GR-36	230963.58	1808098.92
GR-37	230963.58	1807978.82
GR-38	230963.58	1807858.37
GR-39	230963.58	1807737.92
GR-40	230963.58	1807617.47
GR-41	230963.58	1807496.64
GR-42	230966.09	1807376.34
GR-43	230989.06	1807259.24
GR-44	231035.17	1807148.48
GR-45	231102.48	1807049.15
GR-46	231188.30	1806965.22
GR-47	231289.24	1806900.09
GR-48	231401.32	1806856.40
GR-49	231519.61	1806836.13
GR-50	231641.80	1806835.05
GR-51	231764.12	1806835.46
GR-52	231886.67	1806835.87
GR-53	232010.22	1806836.29
GR-54	232136.31	1806836.71
GR-55	232258.94	1806846.59
GR-56	232384.71	1806862.25
GR-57	232409.97	1806865.39

WEIR BOX SUPPORT COORDINATES TABLE

POINT #	NORTHING	EASTING
WB-1	232017.54	1810991.70
WB-2	231951.82	1810974.23
WB-3	232012.23	1810966.99
WB-4	231968.70	1810955.42
WB-5	231992.63	1810953.01

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

GEOTUBES COORDINATES TABLES

Rev: REVNO
Date: 2026-09-22
M&N Project No. 210315
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

Designed by: NC
Dwn by: GE
Ckd by: PC
Reviewed by: PK
Submitted by: MEG GOECKER

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET
MOBILE, AL 36602

ALABAMA LICENSED No. 38080 PROFESSIONAL ENGINEER NICHOLAS C. COX
SEAL
9/22/2026

Sheet Reference No.
C-603
INDEX: 47 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315C-603 ; Plotted: 9/22/2026 9:20 AM by ESPINO, GUILLERMO ; Saved: 8/6/2026 4:12 PM by DP/NZON

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

DESIGN CODES AND REFERENCES

1. THE FOLLOWING CODES AND REFERENCES WERE UTILIZED FOR THE DESIGN OF THIS PROJECT:
   - A. AASHTO (AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS), 17th EDITION, 2002, "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES"
   - B. AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), 15th EDITION, 2016 "MANUAL OF STEEL CONSTRUCTION"
   - C. ASCE (AMERICAN SOCIETY OF CIVIL ENGINEERS), 7-10, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
   - D. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS), 43rd EDITION, 2006, "ASTM STANDARDS IN BUILDING CODES"
   - E. AWC (AMERICAN WOOD COUNCIL), 2015, "NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION"
   - F. AWS (AMERICAN WELDING SOCIETY), D1.1, 2020, "STRUCTURAL WELDING CODE - STEEL"
   - G. ICC (INTERNATIONAL CODE COUNCIL), 2015, "INTERNATIONAL BUILDING CODE"
   - H. ALDOT (ALABAMA DEPARTMENT OF TRANSPORTATION), 2018, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION"

DESIGN CRITERIA

1. GANGWAYS AND PLATFORMS WERE DESIGNED FOR THE FOLLOWING PARAMETERS:
   A. UNIFORM LIVE LOAD.....50 PSF
2. GEOTECHNICAL CRITERIA:
   - A. DREDGED MATERIAL
     - a. 85 PCF UNIT WEIGHT
     - b. COHESION AT SURFACE/GRADE OF 50 PSF, GAIN OF 5 PSF COHESION WITH EACH FOOT OF DEPTH
   - B. ALLOWABLE BEARING PRESSURE = 660 PSF
   - C. AT REST SOIL PRESSURE ON ALL SIDES UP TO EL+6.0 WITH CONCURRENT WATER LEVEL OF EL+6.0.
3. WIND LOADING
   - A. WIND PRESSURE ON EXPOSED PORTIONS OF THE STRUCTURES BASED ON 115 MPH WIND SPEED IN ACCORDANCE WITH AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) MANUAL
4. DESIGN LIFE = 30 YEARS

TIMBER CONSTRUCTION

1. ALL TIMBER CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) & THE AMERICAN INSTITUTE FOR TIMBER CONSTRUCTION.
2. ALL TIMBER COMPONENTS SHALL BE TREATED WITH ACZA OR CCA IN ACCORDANCE WITH AWPA (USE CATEGORY SYSTEM U1-06 COMMODITY SPECIFICATION G) FOR TIMBER SUBJECT TO SALTWATER IMMERSION. PRESERVATIVE RETENTION SHALL BE 2.50 POUNDS PER CUBIC FOOT FOR ALL COMPONENTS.
3. PROVIDE SOLID SAWN TIMBERS OF STRESS RATED GRADE 1, NON-DENSE SOUTHERN PINE FOR ALL TIMBER COMPONENTS AS IDENTIFIED BY THE GRADE MARK OF A RECOGNIZED ASSOCIATION COVERING THE SPECIES USED. THE ASSOCIATION SHALL BE CERTIFIED BY THE BOARD OF REVIEW, AMERICAN LUMBER STANDARDS COMMITTEE, TO GRADE THE SPECIES USED.

STRUCTURAL AND MISCELLANEOUS STEEL

1. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC SPECIFICATIONS THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. STRUCTURAL AND MISCELLANEOUS STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:

   SHAPES, BARS AND PLATES. . . . . .ASTM A36 OR ASTM A992
   BOLTS, UNLESS OTHERWISE NOTED. . . . . ASTM F3125, GRADE 325
   ANCHOR BOLTS. . . . . ASTM F1554 GRADE 36
3. WASHERS SHALL BE CIRCULAR FLAT SMOOTH AND SHALL CONFORM TO ANSI B18.22.1 AND ASTM F436, UNLESS OTHERWISE SPECIFIED. NUTS SHALL CONFORM TO ASTM A563.
4. ALL WELDING SHALL CONFORM TO AWS D1.1, UNLESS OTHERWISE SPECIFIED.
5. ALL WELDED ASSEMBLIES SHALL BE SHOP FABRICATED.
6. ALL HARDWARE (BOLTS, NUTS, AND WASHERS) AND ALL MEMBERS OF LADDERS AND HANDRAILS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND/OR ASTM A153, AS APPLICABLE AFTER FABRICATION, UNLESS OTHERWISE NOTED OR SPECIFIED.
7. FIELD TREAT DAMAGED GALVANIZED FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZED COMPOUNDS OR APPROVED EQUAL. IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE CLEANED AND PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT.

DESIGN CRITERIA

1. MINIMUM CONCRETE COMPRESSIVE STRENGTH (f'c) AT 28 DAYS MUST BE AS FOLLOWS:
   A. CAST-IN-PLACE CONCRETE . . . . . 5,000 PSI
   B. PRECAST CONCRETE . . . . . 6,000 PSI
2. REINFORCING STEEL AND DOWELS MUST BE IN ACCORDANCE WITH ASTM A615 GRADE 60. REINFORCING STEEL TO BE WELDED MUST BE ASTM A 706.
3. ALL CONCRETE MATERIALS, REINFORCEMENT, AND CONSTRUCTION MUST BE IN ACCORDANCE WITH ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE".
4. ALL CONCRETE MUST BE A NORMAL WEIGHT CONCRETE (145 pcf).
5. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL MUST CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315 AND ACI 301.
6. ALL CEMENT MUST CONFORM TO ASTM C 150, TYPE II FOR AN EXTREMELY AGGRESSIVE ENVIRONMENT, WITH SLAG OR FLY ASH. MAXIMUM W/C RATIO IS 0.45.
7. LEVELING GROUT MUST BE NON-SHRINK CONFORMING TO ASTM C1107 WITH MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
8. PROVIDE BROOM FINISH FOR ALL WALKING SURFACES.
9. MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT, 3" UON.
10. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED EDGES AND CORNERS, UON.
11. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING ARE CENTER TO CENTER LINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
12. METAL CHAIRS ARE NOT ALLOWED AND NO METAL MUST PROTRUDE FROM SURFACE OF THE CONCRETE.
13. ROUGHEN ALL CONSTRUCTION JOINTS BETWEEN SET CONCRETE TO A 1/4" AMPLITUDE.
14. LAP SPLICES MUST BE MINIMUM CLASS "B" LAP SPLICES IN ACCORDANCE WITH ACI 301 AND ACI 318.

LAP SLICE LENGTH (INCHES)

BAR SIZE	VERTICAL BARS & BOTTOM BAR	TOP BARS
#3	17	22
#4	23	29
#5	26	36
#6	34	43
#7	49	63
#8	56	72
#9	63	81
#10	69	90
#11	77	100

NOTE

THESE SPLICE LENGTHS APPLY TO BARS WITH A MINIMUM SPACING OF 4 INCHES ON CENTER. MINIMUM COVER 3", AND f'c = 5,000 psi, CLASS B LAP SPLICES.

STEEL CORROSION PROTECTION

1. STEEL MEMBERS LISTED BELOW MUST BE COATED WITH A MARINE EPOXY IN ACCORDANCE WITH THE SPECIFICATIONS.
   - A. ALL SURFACES OF WEIR BOX STEEL MEMBERS AND PLATES MUST BE COATED.
2. ALL STEEL MEMBERS ARE DESIGNED WITH A CORROSION ALLOWANCE (SACRIFICIAL) TO THICKNESS. AFTER THE COATING SERVICE LIFE HAS ENDED, CORROSION IS ASSUMED TO PROGRESS AT THE FOLLOWING RATES ON EACH EXPOSED SURFACE UNTIL THE END OF THE DESIGN LIFE OF THE MEMBER. OPEN SHAPES SUCH AS W-SHAPES, ANGLES, AND SHEET OR H-PILES REQUIRE TWICE THE SACRIFICIAL THICKNESS AS CLOSED SHAPES SUCH AS PIPE PILES DUE TO TWO EXPOSED SURFACES.
3. COATING SERVICE LIFE IS ASSUMED TO BE 20 YEARS.
4. CORROSION RATES ARE ASSUMED AS FOLLOWS:
   - a. SPLASH ZONE (MLLW TO HIGHEST OBSERVED TIDE) - 0.008 IN/YEAR
   - b. IMMERSION ZONE (MLLW TO MUDLINE) - 0.004 IN/YEAR
   - c. PERMANENT SOIL CONTACT - 0.002 IN/YEAR
5. REPAIR EPOXY COATING OF STEEL MEMBERS DAMAGED DURING HANDLING AND ERECTION ACCORDING TO THE SPECIFICATIONS.

STRUCTURAL ABBREVIATIONS

ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
AWS	AMERICAN WELDING SOCIETY
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIAL
CONC	CONCRETE
COL	COLUMN
EW	EACH WAY
FB	FLAT BARS
FRP	FIBER REINFORCED POLYMER
GAB	GRADED AGGREGATE BASE
HDPE	HIGH DENSITY POLYETHYLENE
L	ANGLE
OC	ON CENTER
P/L	STEEL PLATE
THK	THICK
UON	UNLESS OTHERWISE NOTICED
W	WIDE-FLANGE SHAPE
WT	STRUCTURAL TEE
PSF	POUND PER SQUARE FOOT

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
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UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

STRUCTURAL NOTES

Rev: REVNO
Date: 2026-09-22
M&N Project No: 210315
Drawing code:
Drawing Scale: 1:1 (0 SHEET)
Plot scale:
Designed by: NC
Dwn by: GE
Cad by: PC
Reviewed by: PK
Submitted by: MEG GOECKER

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W. Kotulak 2026.09.22 11:55:23-05'00'
SEAL

Sheet Reference No.
S-001
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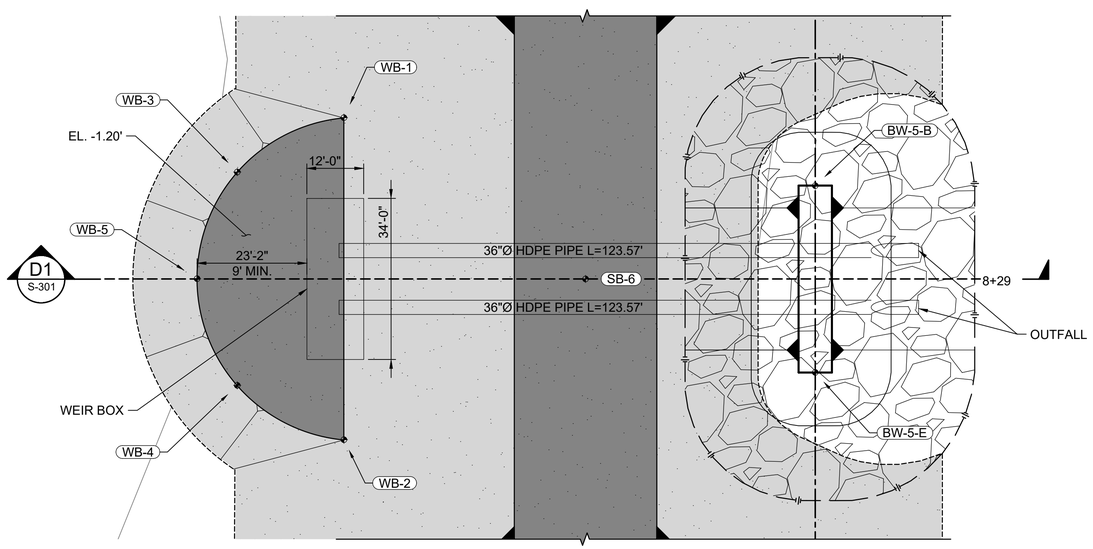
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



B1 S-101 WEIR BOX - PLAN BREAKWATER
SCALE: 1"=16'

N

LEGEND:

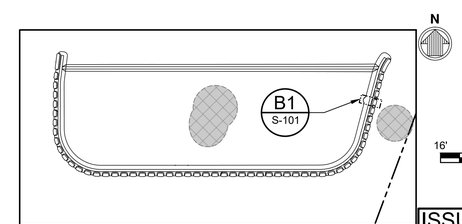
SLOPE PATTERN
CONTOUR +1'
CREST
TOE
BREAKWATER

SLOPE PATTERN
CREST
TOE
SAND BERM

SECTION LINE

ALIGNMENT

- BW-##-B BEGINNING OF BREAKWATER WP
- BW-##-E ENDING OF BREAKWATER WP
- SB-## CENTER OF SAND BERM WP
- WB-# WEIR BOX GRADED SAND PAD



KEY PLAN

16' 0' 16' 32'
SCALE: 1"=16'

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

WEIR PLAN - BREAKWATER

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

Designed by: NC
Dwn by: GE
Cad by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Date: 2026-09-22
Rev: REV/NO
M&N Project No. 210315
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W. Kotulak 2026.09.22 11:55:24-05'00'
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S-101
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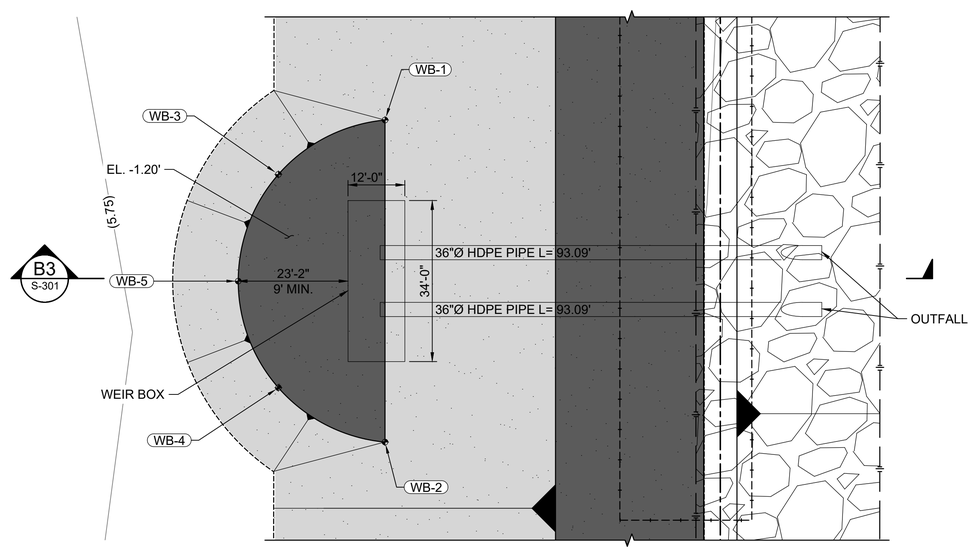
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

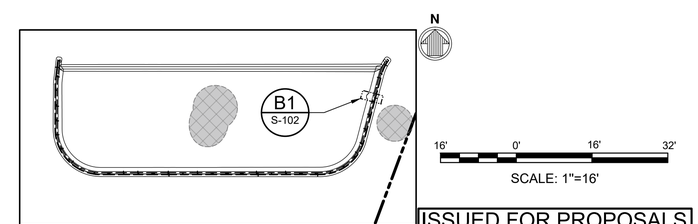
9/22/2026



B1 S-102 WEIR BOX - PLAN GEOTUBE
SCALE: 1" = 16'

LEGEND:

- GEOTUBE APPROX. EXTENT
- CREST, SLOPE PATTERN, TOE — ARMOR STONE
- SLOPE PATTERN, CREST, TOE — SAND BERM
- SECTION LINE
- ALIGNMENT
- WB-# WEIR BOX GRADED SAND PAD



SCALE: 1"=16'

KEY PLAN

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UPPER MOBILE BAY
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WEIR PLAN - GEOTUBE

Designed by: NC
Dwn by: GE
Cad by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Date: 2026-09-22
Rev: REVNO
M&N Project No. 210315
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

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Peter W. Kotulak 2026.09.22 11:55:24-05'00'
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Sheet Reference No.
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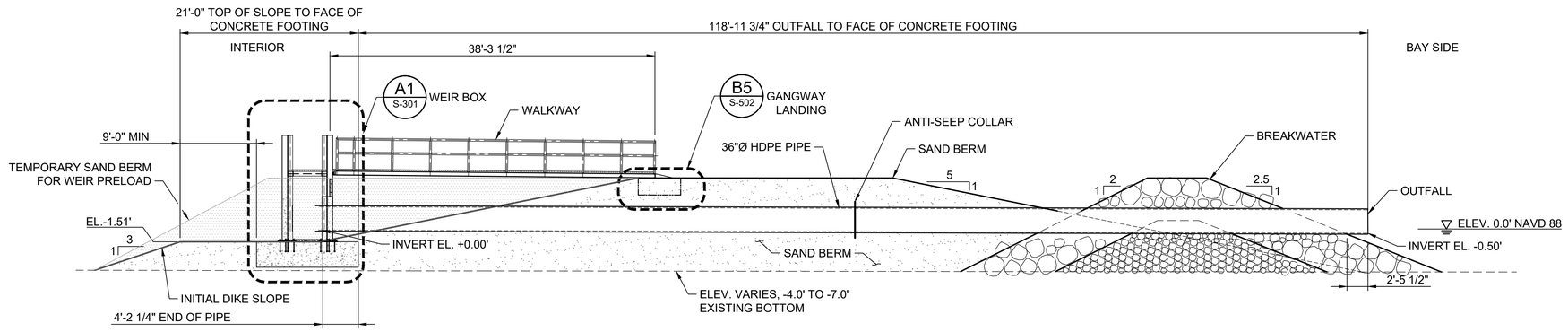
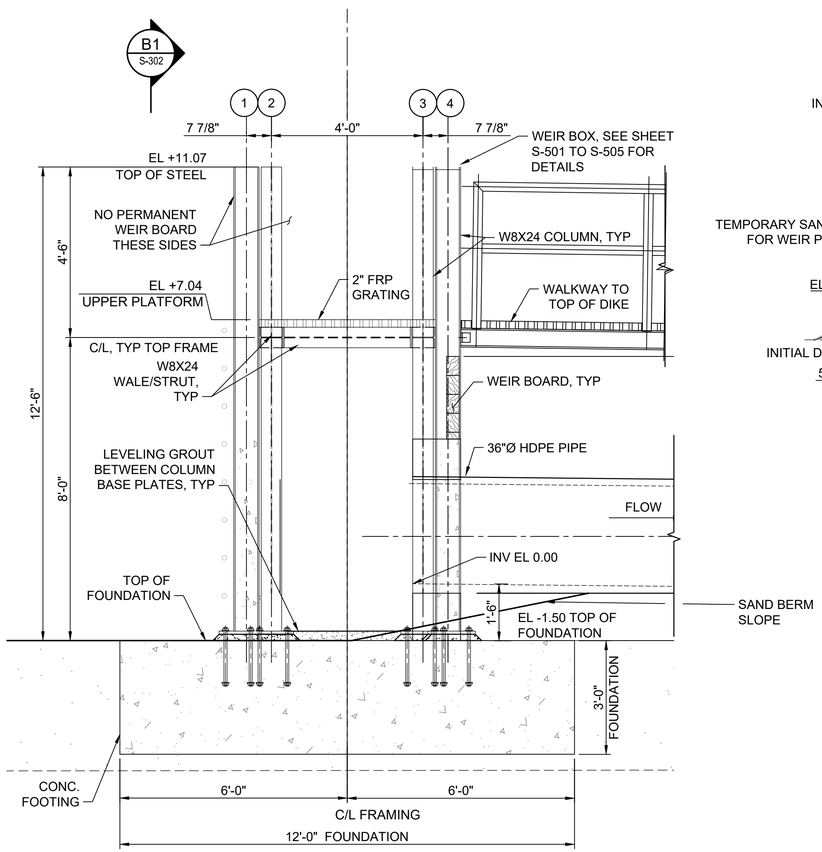
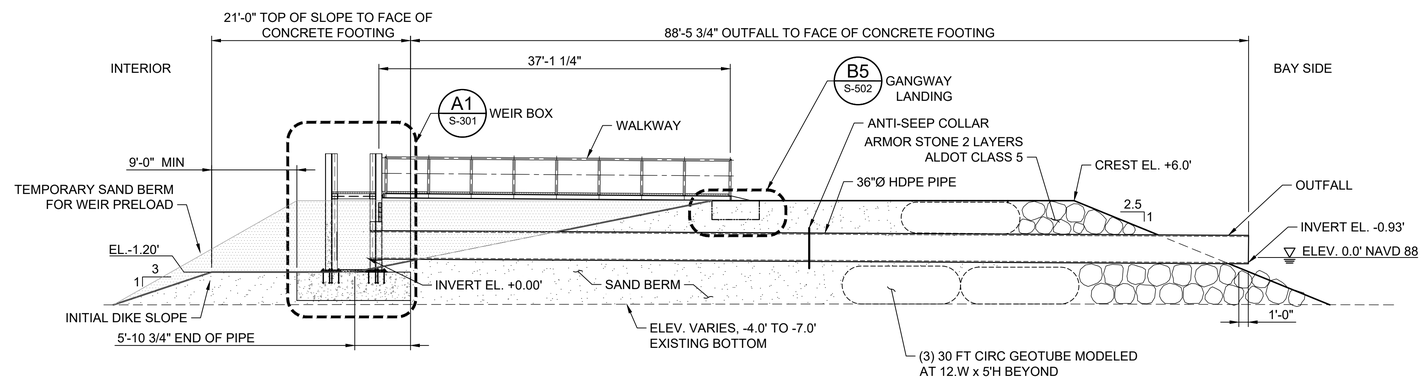


D1 S-101 WEIR BOX SECTION - BREAKWATER
SCALE: 1/8" = 1'-0"



A1 S-301 SECTION - WEIR BOX
SCALE: 1/2" = 1'-0"



B3 S-102 WEIR BOX SECTION - GEOTUBES
SCALE: 1/8" = 1'-0"

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

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

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
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ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

WEIR SECTION (1 OF 2)

Rev: REVNO
Date: 2026-09-22
M&N Project No. 210315
Drawing code:
Drawing Scale: 1:1 (0 SHEET)
Plot scale:
Designed by: NC
Dwn by: GE
Cad by: PC
Reviewed by: PK
Submitted by: MEG GOECKER

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W. Kotulak 2026.09.22 11:55:24-05'00'
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Sheet Reference No.
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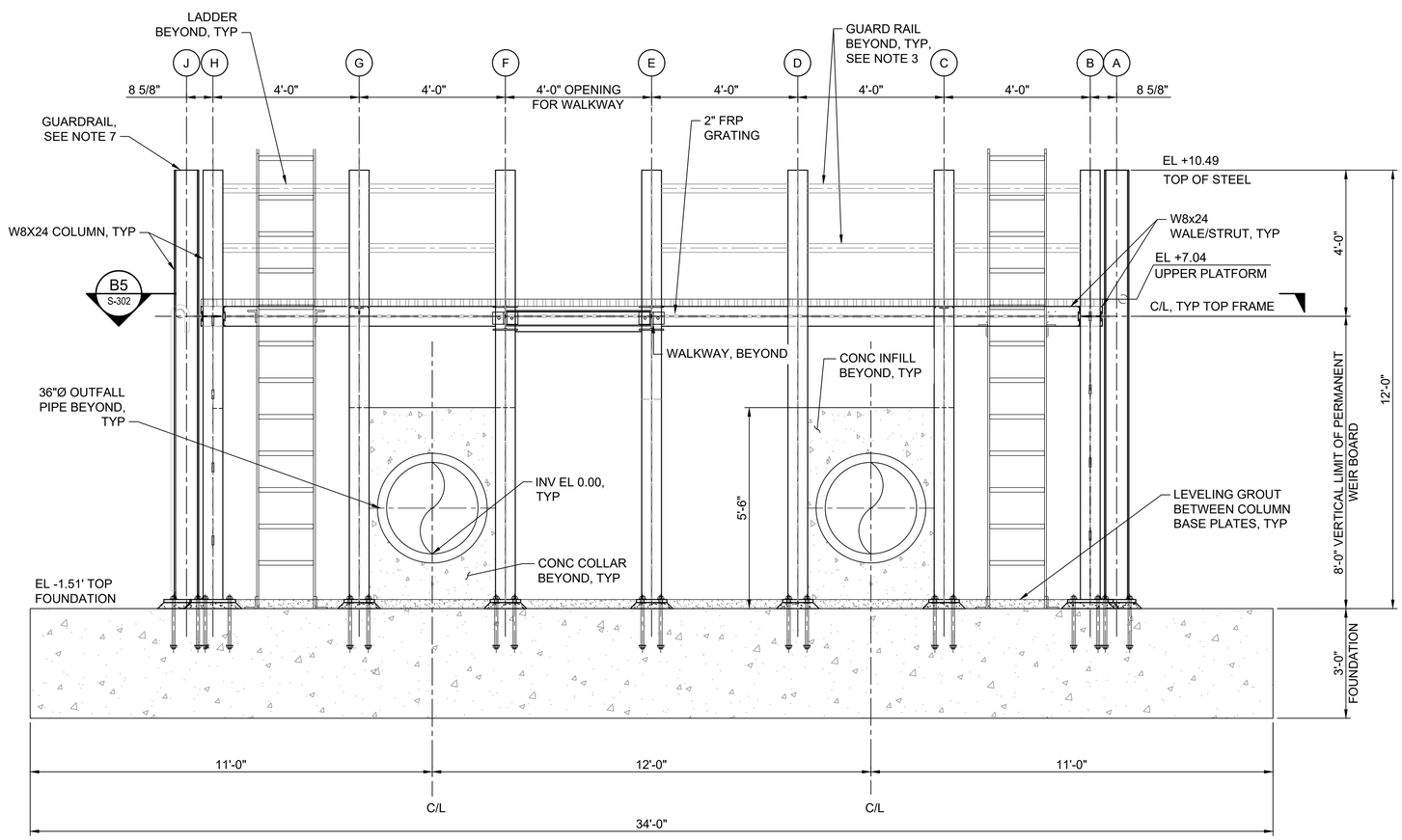
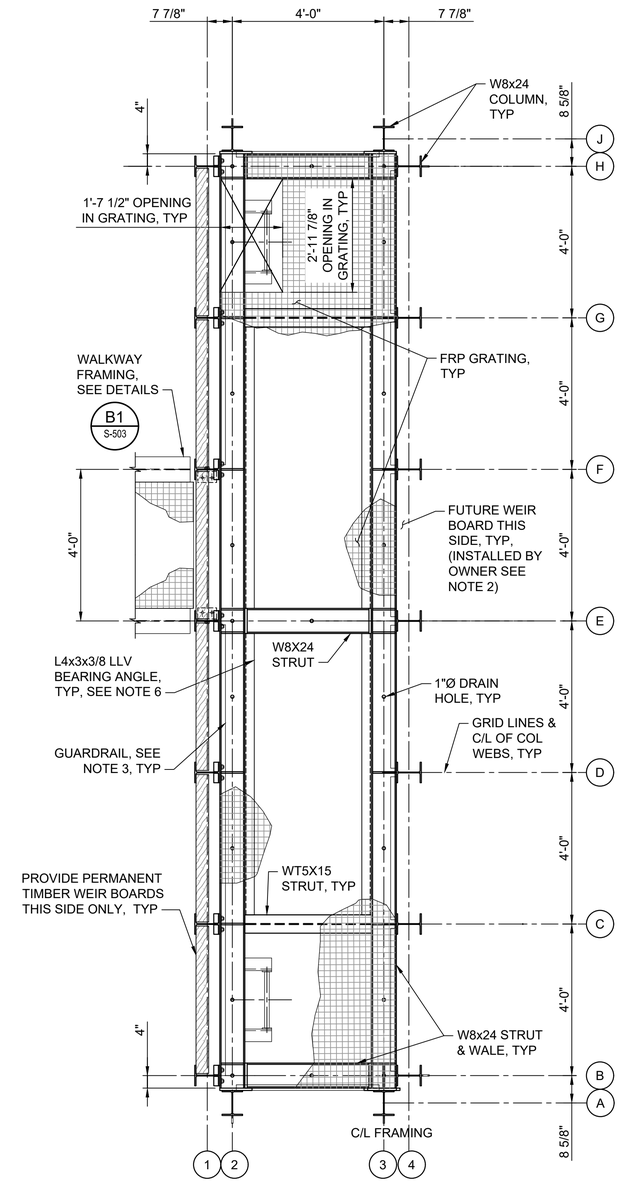


B1 S-301 SECTION - WEIR BOX
SCALE: 1/2" = 1' - 0"



B5 S-302 PLAN - FRAMING - TOP DECK
SCALE: 1/2" = 1' - 0"

NOTES:

1. NOT ALL WEIR BOARDS SHOWN FOR CLARITY.
2. PROVIDE AND INSTALL PERMANENT WEIR BOARDS ON DIKE SIDE OF THE WEIR BOX. PROVIDE BUT DO NOT INSTALL WEIR BOARDS ON THE INTAKE (FRONT) AND TWO SIDES OF THE SPILLWAY.
3. PROVIDE GUARDRAIL ALL AROUND.
4. FOUNDATION REINFORCING NOT SHOWN FOR CLARITY.
5. DIKE SLOPES AND PIPE COVER STONE NOT SHOWN FOR CLARITY. SEE CIVIL DRAWINGS.
6. FOR GRATING BEARING ANGLE, SEE D1 / S-503.

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

ISSUED FOR PROPOSALS
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ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

WEIR SECTION (2 OF 2)

Rev.	Date:	Designed by:	Dwn by:	Cad by:	Reviewed by:	Submitted by:
REV/NO	2026-09-22	NC	GE	PC	PK	MEG GOECKER

M&N Project No. 210315
Drawing code:
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W. Kotulak 2026.09.22 11:55:24-05'00'
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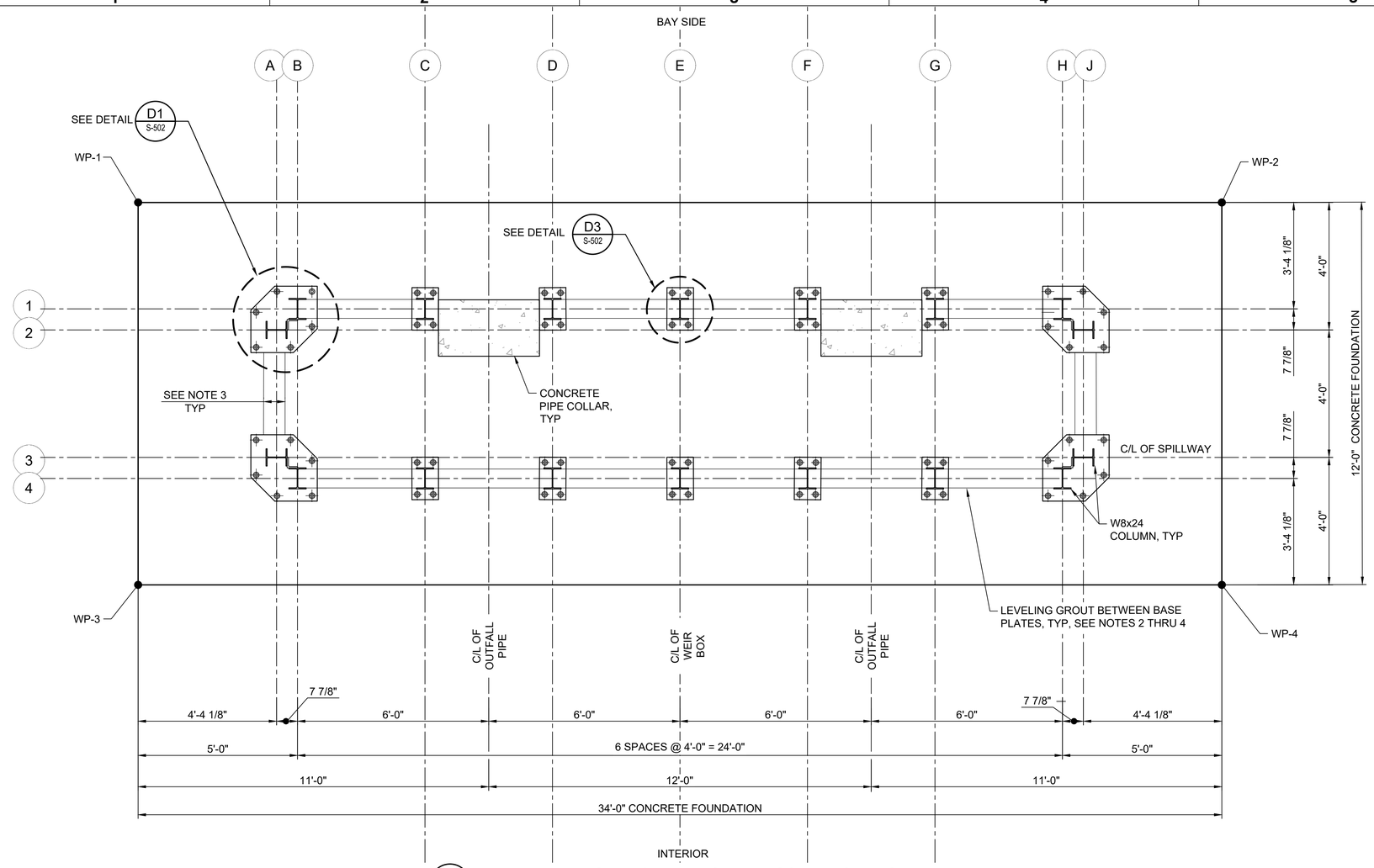
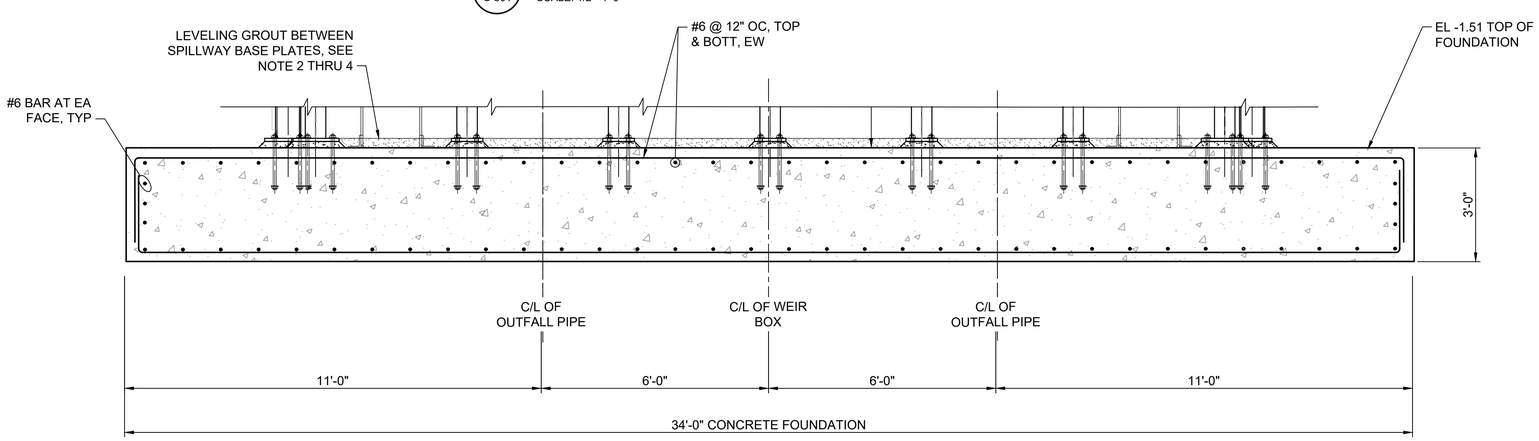


C1 S-501 PLAN - WEIR BOX - FOUNDATION AND COLUMNS LAYOUT
SCALE: 1/2"=1'-0"



A1 S-501 SECTION - WEIR BOX - FOUNDATION REINFORCING
SCALE: 1/2"=1'-0"

WEIR BOX WORKING POINTS		
WORKING POINT ID	NORTHING	EASTING
WPB-1	231952.61	1810948.91
WPB-2	231919.74	1810940.18
WPB-3	231955.69	1810937.31
WPB-4	231922.81	1810928.59
WPG-1	232000.51	1810991.38
WPG-2	231967.64	1810982.65
WPG-3	232003.59	1810979.78
WPG-4	231970.71	1810971.05

LEGEND:

WPB-# POINTS OF WEIR BOX BREAKWATER OPTION

WPG-# POINTS OF WEIR BOX GEOTUBE OPTION

NOTES:

1. THE FOUNDATION CONCRETE PLACEMENT MUST CONFORM TO THE MASS CONCRETE REQUIREMENTS OF THE SPECIFICATIONS.
2. THE PERIMETER LEVELING GROUT FILL MAY CAUSE UP TO 3" OF PONDING DURING CONSTRUCTION. IF THIS WILL INTERFERE WITH CONSTRUCTION, THE GROUT PLACEMENT ON THE SIDES OF THE STRUCTURE WITHOUT PERMANENT WEIR BOARDS MAY BE DELAYED TILL THE END OF CONSTRUCTION. IN THE FINAL CONDITION, THE PONDING UP TO THE PIPE INVERT IS 1'-6", WHICH STILL PERMITS INSPECTION OF THE SPILLWAY INTERIOR.
3. LEVELING GROUT AND CONCRETE INFILL WIDTH TO MATCH COLUMN DEPTH.
4. LEVELING GROUT NOT REQUIRED BETWEEN COLUMNS
WHERE CONCRETE INFILL IS PRESENT.

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

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UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BOX RISER WEIR DETAILS (1 OF 2)

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moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W. Kotulak 2026.09.22 11:55:24-05'00'
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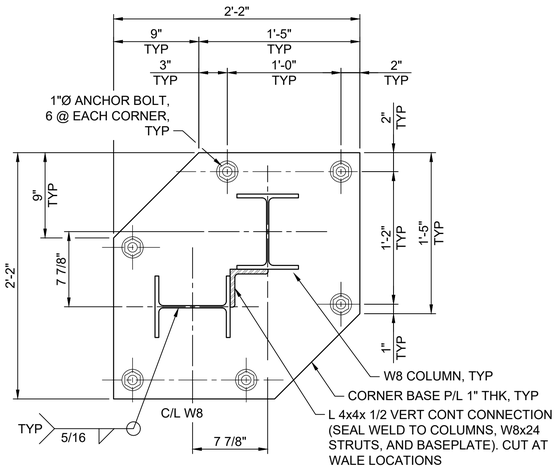
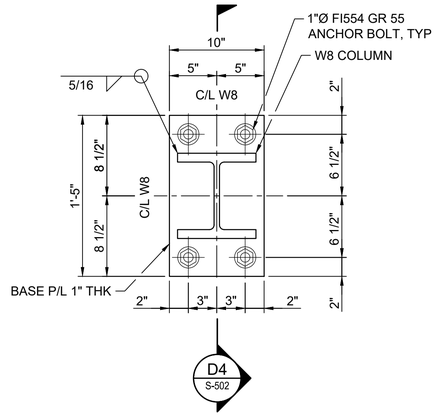
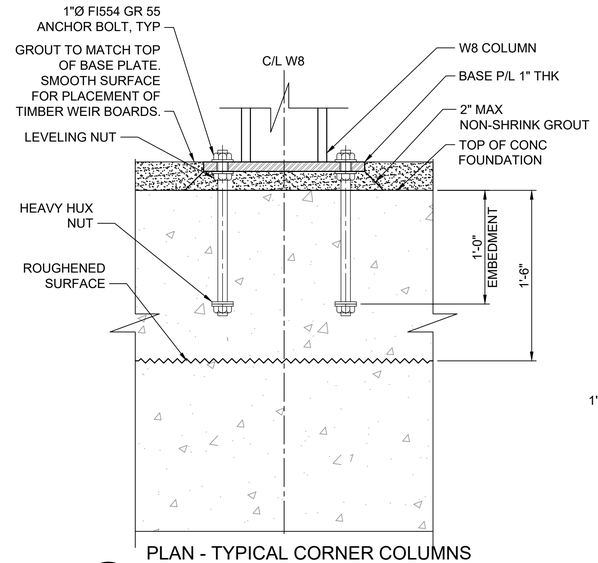


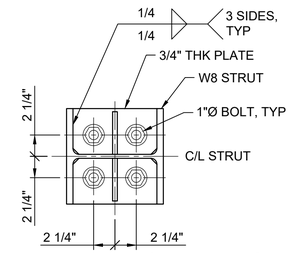
D1 S-501 PLAN - TYPICAL CORNER COLUMNS BASE PLATE CONNECTION
SCALE: 1 1/2" = 1' - 0"



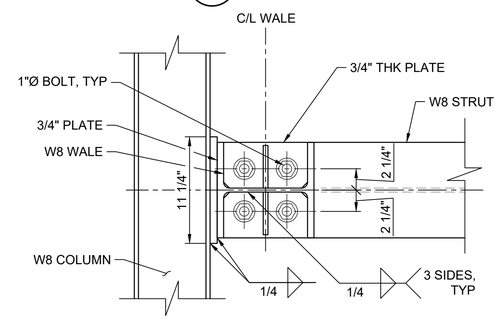
D3 S-501 PLAN - TYPICAL INTERMEDIATE COLUMNS BASE PLATE CONNECTION
SCALE: 1 1/2" = 1' - 0"



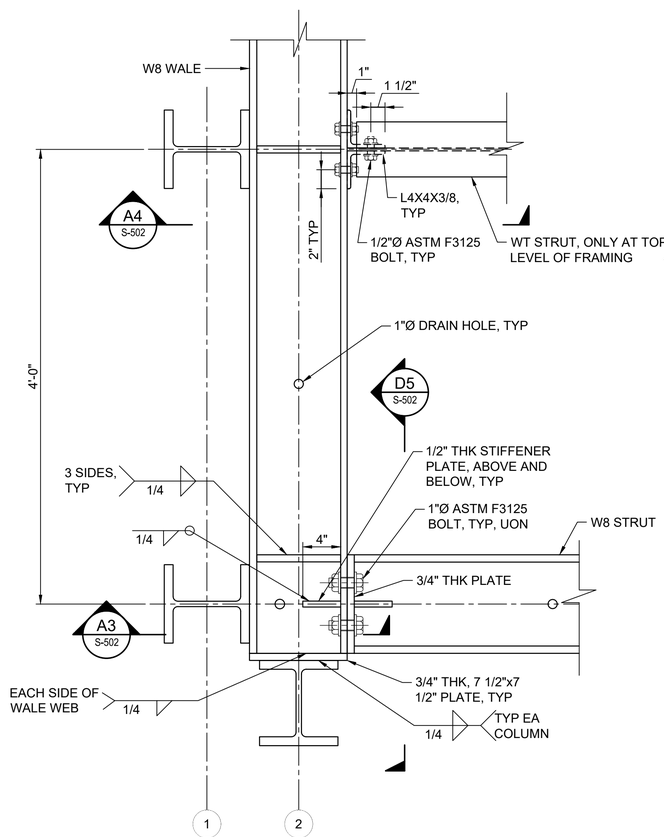
D4 S-502 PLAN - TYPICAL CORNER COLUMNS BASE PLATE CONNECTION
SCALE: 1 1/2" = 1' - 0"



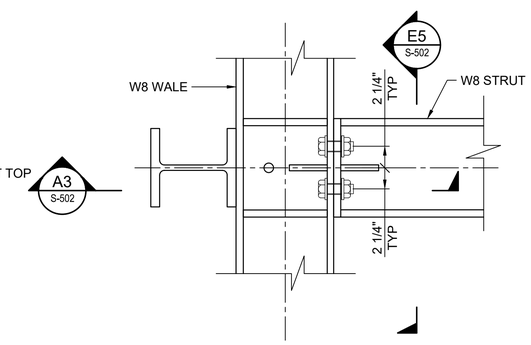
E5 S-502 DETAIL - 3/4" PLATE TO WALE CONNECTION
SCALE: 1 1/2" = 1' - 0"



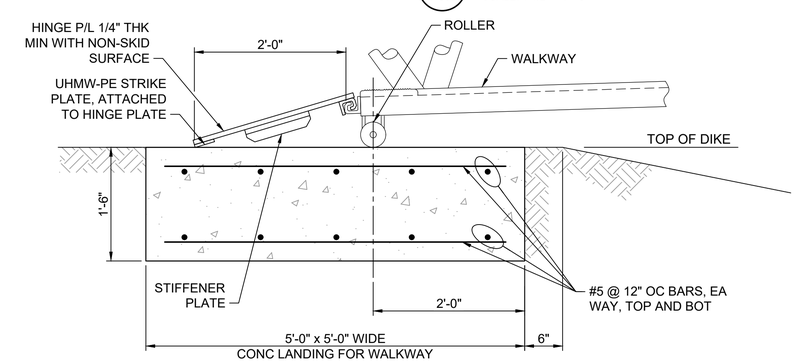
D5 S-502 SECTION - COLUMN TO STRUT/WALE CONNECTION
SCALE: 1 1/2" = 1' - 0"



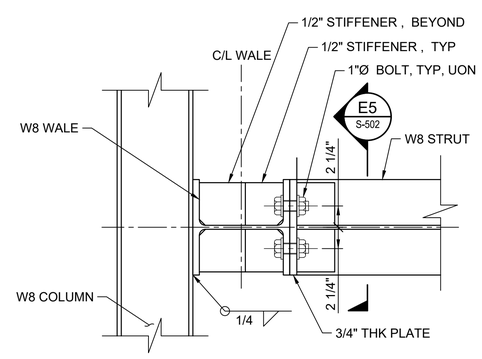
A1 S-502 PARTIAL PLAN - TYPICAL SPILLWAY CORNER AT WALE LEVEL
SCALE: 1 1/2" = 1' - 0"



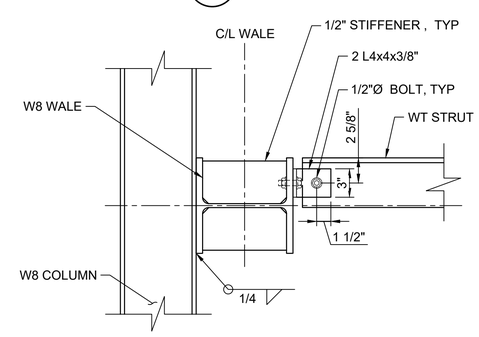
B3 S-502 PARTIAL PLAN - TYPICAL STRUT CONNECTION AT WALE LEVEL
SCALE: 1 1/2" = 1' - 0"



B5 S-301 DETAIL - GANGWAY LANDING
SCALE: 1" = 1' - 0"



A3 S-502 SECTION - COLUMN TO W8 STRUT/WALE CONNECTION
SCALE: 1 1/2" = 1' - 0"



A4 S-502 SECTION - COLUMN TO WT STRUT CONNECTION
SCALE: 1 1/2" = 1' - 0"

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

1'-0" 0'-0" 6" 1'-0"
SCALE: 1 1/2"=1'-0"

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ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

BOX RISER WEIR DETAILS
(2 OF 2)

Rev. REVNO
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moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W. Kotulak 2026.09.22 11:55:24-05'00'
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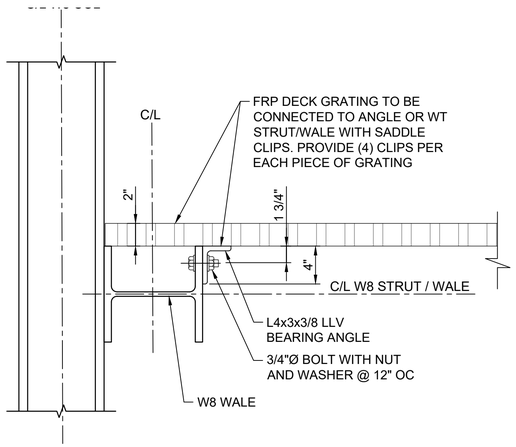
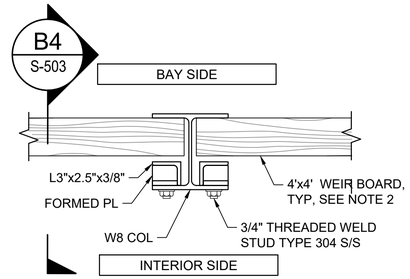


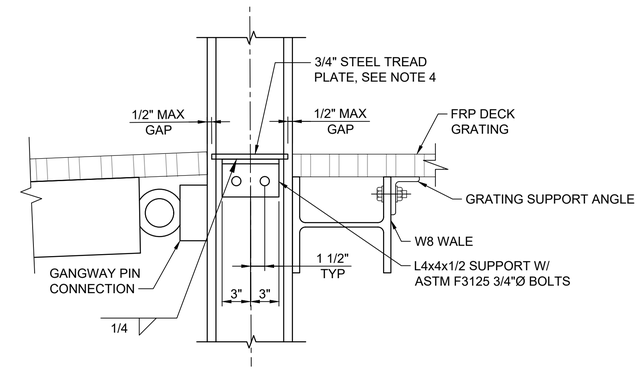
D1 S-503 DETAIL - DECK GRATING AT STRUT/WALE
SCALE: 1" = 1' - 0"



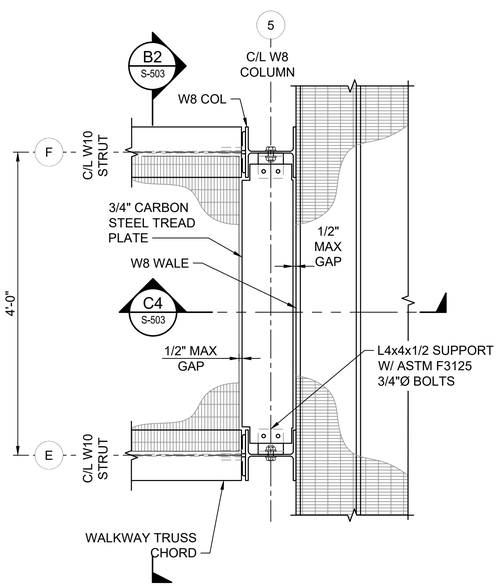
D3 S-503 DETAIL - TIMBER WEIR BOARDS
SCALE: 1" = 1' - 0"

NOTES:

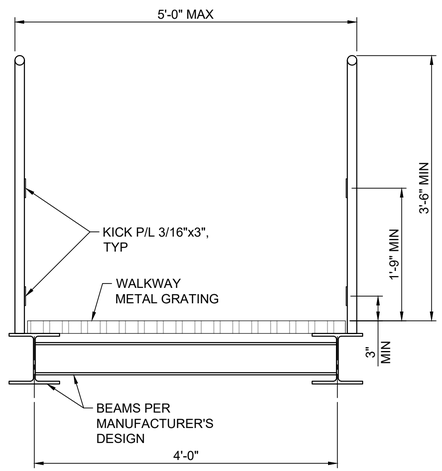
1. WEIR BOARDS MUST BE ORIENTED WITH THE FLAT FACE VERTICAL.
2. WEIR BOARD SIZE MUST BE 4"x4".
3. TIMBER GRADE MUST BE SOUTHERN PINE, NO. 1 NON-DENSE OR BETTER.
4. TREAD PLATE WIDTH MUST BE SET BY THE GANGWAY DESIGNER TO CLOSE THE DISTANCE BETWEEN THE WALKWAY GRATING AND STRUCTURE GRATING WITH THE MAX GAPS SHOWN.



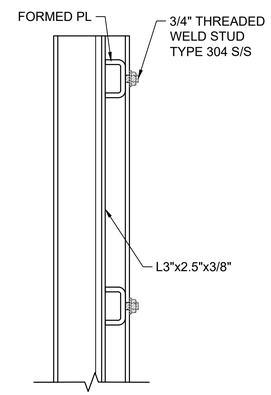
C4 S-503 SECTION - WALKWAY CONNECTION
SCALE: SCALE: 1" = 1' - 0"



B1 S-302 PLAN - WALKWAY CONNECTION
SCALE: 1" = 1' - 0"



B2 S-503 SECTION - WALKWAY
SCALE: 1" = 1' - 0"



B4 S-503 SECTION - TIMBER WEIR BOARDS
SCALE: 1" = 1' - 0"

WALKWAY NOTE:

1. WALKWAY DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR. SEE SPECIFICATIONS.

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

1'-0" 0'-0" 6" 1'-0"
SCALE: 1 1/2"=1'-0"

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

DECK CONNECTION DETAILS

Designed by: NC
Dwn by: GE
Cad by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Date: 2026-09-22
Rev. REV/NO
M&N Project No. 210315
Drawing scale:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

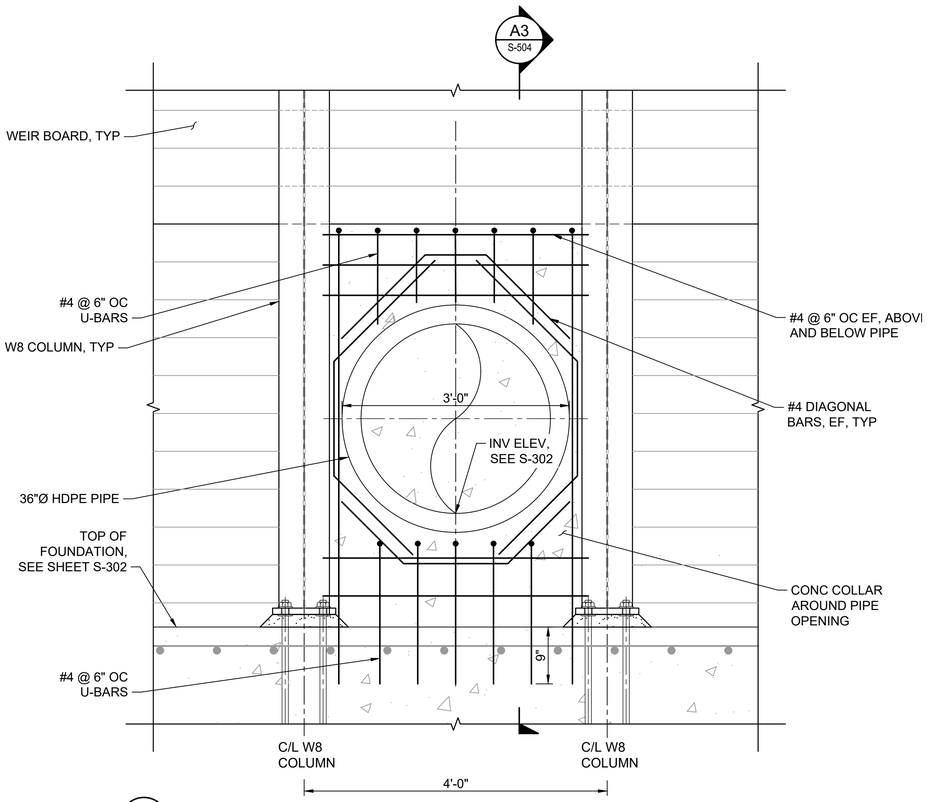
ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W. Kotulak 2026.09.22 11:55:24-05'00'
SEAL

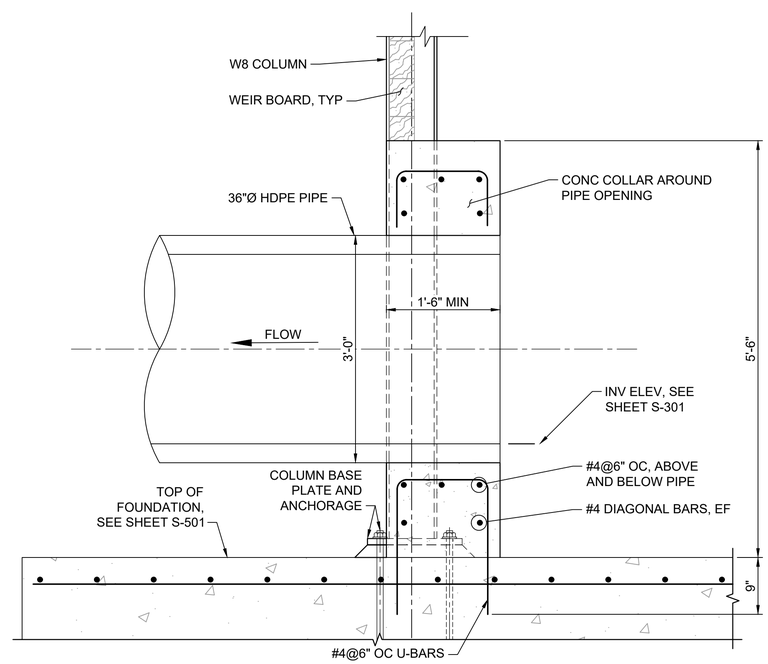
Sheet Reference No.
S-503
INDEX: 55 OF 57

File: P:\BR\210315\20 CADD_Active_construction set\210315S-503 ; Plotted: 9/22/2026 10:23 AM by ESPINO, GUILLERMO ; Saved: 9/18/2026 10:30 AM by WMORENO

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



C1 S-504 ELEVATION - CONCRETE COLLAR AT PIPE - WEIR BOX
SCALE: 1" = 1' - 0"



A3 S-504 SECTION - CONCRETE COLLAR - WEIR BOX
SCALE: 1" = 1' - 0"

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

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
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ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

PIPING CONNECTION

Designed by: NC		Date: 2026-09-22	Rev. REVNO
Dwn by: GE	Ckd by: PC	M&N Project No: 210315	
Reviewed by: PK		Drawing code:	
Submitted by: MEG GOECKER		Drawing Scale: Plot scale: 1:1 (O SHEET)	

moffatt & nichol 11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY 250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W. Kotulak 2026.09.22 11:55:24-05'00'
SEAL

Sheet Reference No.
S-504
INDEX: 56 OF 57

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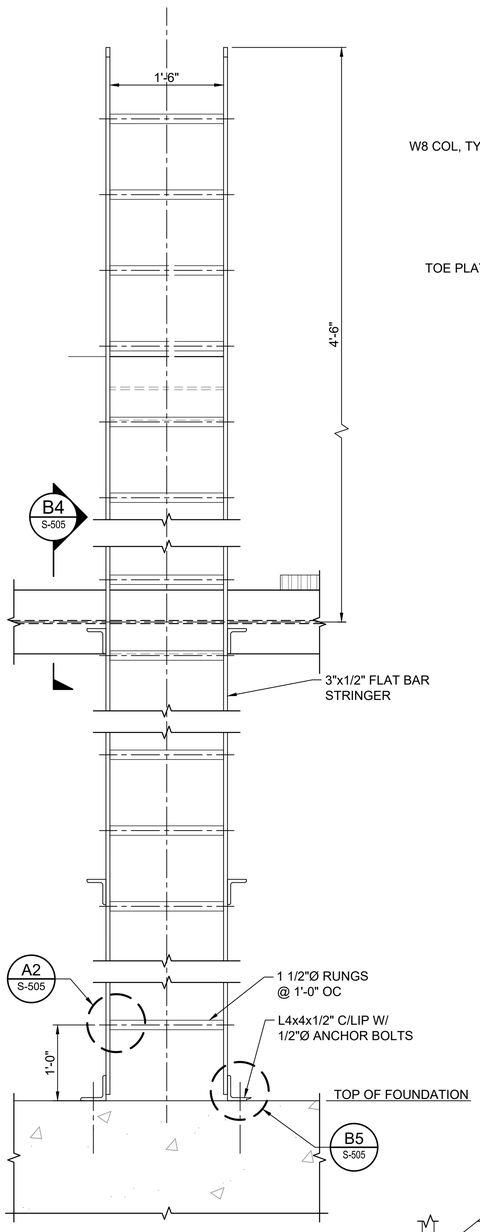
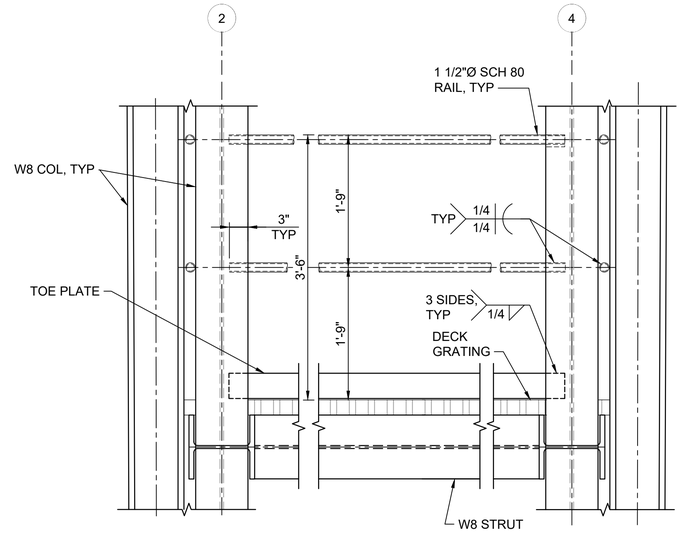
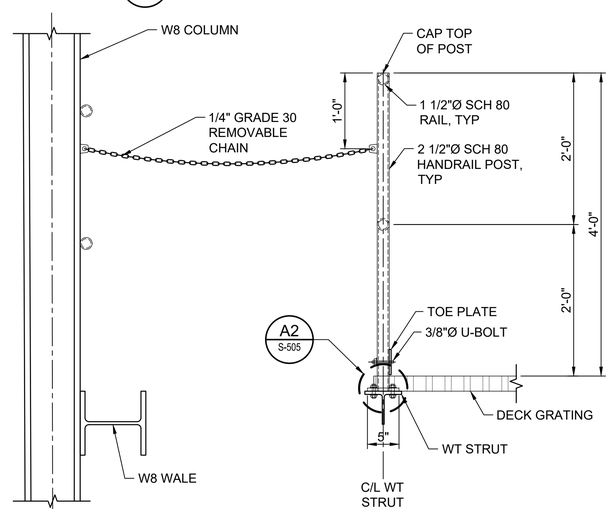


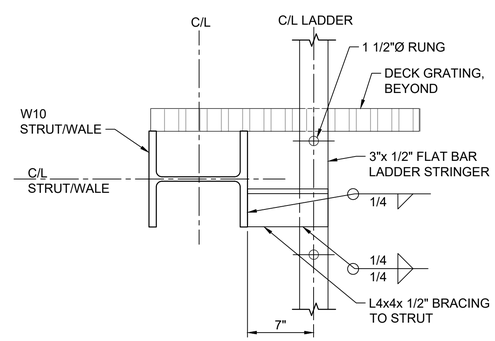
A1 S-505 ELEVATION - LADDER
SCALE: 1" = 1' - 0"



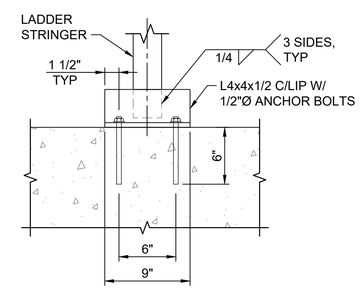
D3 S-505 SECTION - PERIMETER GUARDRAIL
SCALE: 1" = 1' - 0"



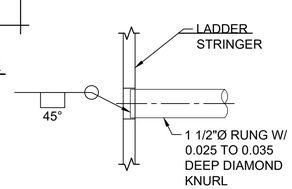
B3 S-505 ELEVATION - SPILLWAY INTERIOR GUARDRAIL AT LADDER OPENING
SCALE: 1" = 1' - 0"



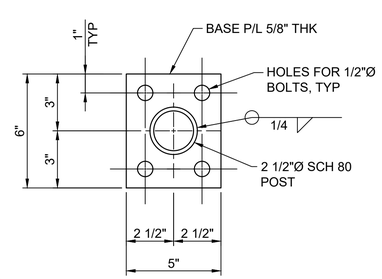
B4 S-505 DETAIL - TYPICAL LADDER CONNECTION
SCALE: 1 1/2" = 1' - 0"



B5 S-505 DETAIL - LADDER ANCHORAGE
SCALE: 1 1/2" = 1' - 0"



A2 S-505 DETAIL - LADDER RUNG
SCALE: 3" = 1' - 0"



A3 S-505 DETAIL - TYPICAL GUARD POST BASE PLATE
SCALE: 3" = 1' - 0"

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

1'-0" 0'-0" 6" 1'-0"
SCALE: 1 1/2"=1'-0"

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

ISSUED FOR PROPOSALS
ISSUED: 2026-09-22
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY

Mark	Description	Date	Appr.

UPPER MOBILE BAY
BENEFICIAL USE WETLAND CREATION SITE PROJECT

LADDER AND GUARDRAILS

Rev: REVNO
Date: 2026-09-22
M&N Project No. 210315
Designed by: NC
Drawn by: GE
Chkd by: PC
Reviewed by: PK
Submitted by: MEG GOECKER
Drawing scale:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

moffatt & nichol
11 N. WATER STREET, SUITE 20220 MOBILE, AL 36602 251-378-9000

ALABAMA PORT AUTHORITY
250 N. WATER STREET MOBILE, AL 36602

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W. Kotulak 2026.09.22 11:55:25-05'00'
SEAL

Sheet Reference No.
S-505
INDEX: 57 OF 57

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