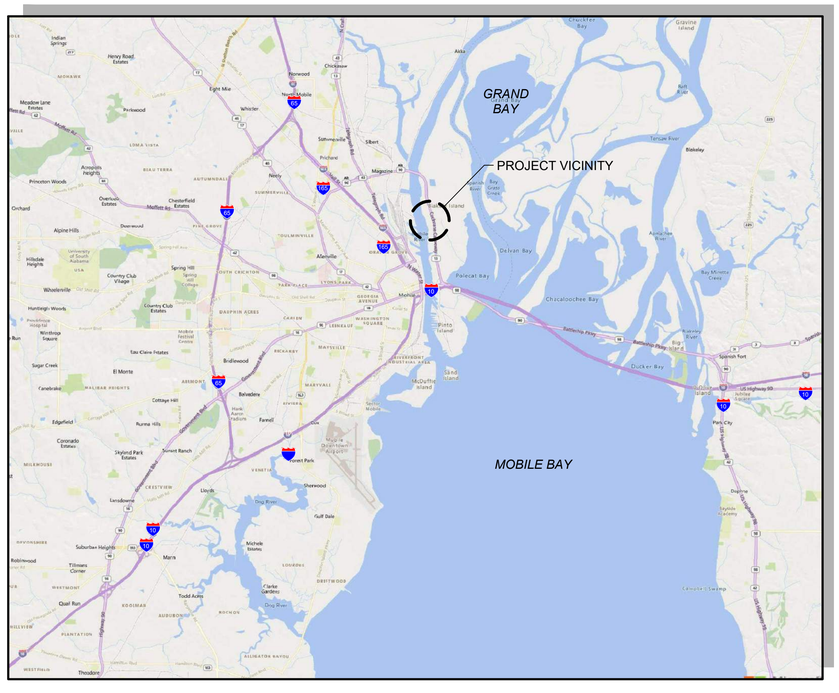
BLAKELEY / MUD LAKES DIKE RAISING PROJECT

ALABAMA STATE PORT AUTHORITY
MOBILE, ALABAMA 36602

PROJECT 11381 TASK 3

ALABAMA PORT AUTHORITY
PORT OF MOBILE



VICINITY MAP
SCALE: NTS



LOCATION PLAN
SCALE: NTS

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ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES DIKE RAISING PROJECT

COVER SHEET

Designed by:	PWK
Dwn by:	ED/MR
Ckd by:	PGV
Reviewed by:	TJS
Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL
Date:	2025-04-04
M&N Project No.	212511-04
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)

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ALABAMA PORT AUTHORITY
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ALABAMA LICENSED
No. 50467 PROFESSIONAL
ENGINEER
PETER WILLIAM KOTULAK

SEAL
Peter W Kotulak
2025.04.04
13:14:04-04'00'

Sheet Reference No.
G-001
INDEX: 1 OF 34

File: \\mnx.net\projects\BR\212511-04\20 CADD_Active_SheetSet Blakeley DMMA\212511-04-BLK-G-001. Plotted: 4/4/2025 8:19 AM by PVOELKER

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

INDEX OF SHEETS

INDEX NO.	SHEET NO.	SHEET TITLE
GENERAL		
1	G-001	COVER SHEET
2	G-002	INDEX DRAWINGS, GENERAL NOTES AND SEQUENCE OF CONSTRUCTION
3	G-003	LEGEND AND ABBREVIATIONS
4	G-101	PLAN - GENERAL ARRANGEMENT AND LIMIT OF WORK
GEOTECHNICAL		
5	B-101	PLAN - BORING LOCATION
CIVIL		
6	V-101	PLAN - EXISTING SITE CONDITIONS AND SITE PREPARATION
7	C-101	PLAN - SITE GEOMETRY AND COORDINATES DATA
8	C-102	PLAN - SAND BASE DIKE WIDENING
9	C-103	PLAN - BORROW AREA
10	C-104	PLAN - DIKE RAISING (EL +70.0)
11	C-105	OPTIONAL GEOTECHNICAL STABILITY BERM
12	C-201	PLAN & PROFILE - NORTH ACCESS RAMPS - 1
13	C-202	PLAN & PROFILE - SOUTH ACCESS RAMPS - 1
14	C-203	PLAN & PROFILE - NORTH ACCESS RAMPS - 2
15	C-204	PLAN & PROFILE - SOUTH ACCESS RAMPS - 2
16	C-301	SECTIONS - TYPICAL CDF
17	C-302	SECTIONS - TYPICAL DIKE
18	C-310	SECTIONS - EAST MUD LAKE DIKE (1 OF 9)
19	C-311	SECTIONS - EAST MUD LAKE DIKE (2 OF 9)
20	C-312	SECTIONS - EAST MUD LAKE DIKE (3 OF 9)
21	C-313	SECTIONS - EAST MUD LAKE DIKE (4 OF 9)
22	C-314	SECTIONS - EAST MUD LAKE DIKE (5 OF 9)
23	C-315	SECTIONS - EAST MUD LAKE DIKE (6 OF 9)
24	C-316	SECTIONS - EAST MUD LAKE DIKE (7 OF 9)
25	C-317	SECTIONS - EAST MUD LAKE DIKE (8 OF 9)
26	C-318	SECTIONS - EAST MUD LAKE DIKE (9 OF 9)
27	C-319	SECTIONS - WEST MUD LAKE DIKE (1 OF 6)
28	C-320	SECTIONS - WEST MUD LAKE DIKE (2 OF 6)
29	C-321	SECTIONS - WEST MUD LAKE DIKE (3 OF 6)
30	C-322	SECTIONS - WEST MUD LAKE DIKE (4 OF 6)
31	C-323	SECTIONS - WEST MUD LAKE DIKE (5 OF 6)
32	C-324	SECTIONS - WEST MUD LAKE DIKE (6 OF 6)
33	C-325	SECTIONS - STABILITY BERM
34	C-501	DETAILS - SITE

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE LATEST BUILDING, ELECTRICAL, MECHANICAL CODES, AND CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS. CODES SHALL BE THE LATEST ISSUE, INCLUDING SUPPLEMENTS, UNLESS OTHERWISE NOTED.
2. THESE CONTRACT DOCUMENTS REPRESENT THE FINISHED DIKE STRUCTURE. THEY DO NOT INDICATE THE METHOD, MEANS, OR PROCEDURES OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE DIKE STRUCTURE AND ADJACENT INFRASTRUCTURE DURING CONSTRUCTION.
3. THE VERTICAL DATUM IS BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. HORIZONTAL DATUM: NAD 1983 ALABAMA WEST STATE PLANE COORDINATE SYSTEM.
5. CONFIRM HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS WITH OWNER PRIOR TO START OF CONSTRUCTION.
6. TOPOGRAPHIC DATA COMPILED BY SURVEY PERFORMED BY HYDROTERRA TECHNOLOGIES, LLC DATED APRIL 13, 2023 AND BY THOMPSON ENGINEERING DATED MARCH 2024.
7. GEOTECHNICAL INVESTIGATIONS WERE PERFORMED BY GEOTECHNICAL ENGINEERING TESTING IN 2024. LOCATIONS OF BOREHOLES ARE PRESENTED IN THE DRAWINGS. BORING LOGS ARE PRESENTED AS AN APPENDIX TO THE SPECIFICATIONS.THE GEOTECHNICAL DATA REPORT CAN BE OBTAINED FROM THE CONSTRUCTION MANAGER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CONSTRUCTION SITE AND THE AREAS OF WORK WHILE PERFORMING THE WORK OF THIS CONTRACT. CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE ON A DAILY BASIS. NO BURNING OF DEBRIS SHALL BE PERMITTED.
9. DURING ALL PHASES OF THE WORK ALL PRECAUTIONS SHALL BE TAKEN AS NECESSARY OR AS REQUIRED TO PERMANENTLY PREVENT CONTAMINATED WATER, VEHICLE FLUIDS, CONSTRUCTION DEBRIS, AND ANY OTHER CONTAMINANT FROM ENTERING THE WATERWAY.
10. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY AND DRAWINGS OF COMPLETED WORK TO ENGINEER. AS-BUILTS SHALL BE BOTH HARD COPY AND ELECTRONIC FORMAT (PDF AND NATIVE / CAD VERSION).
11. THE ACCURACY OF EXISTING STRUCTURES SHOWN ON PLANS ARE NOT GUARANTEED. ACTUAL FIELD CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF MATERIALS, ORDERING MATERIALS, OR PERFORMING WORK.
12. ALL EXCAVATION AND TRENCHING, SHALL BE PERFORMED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING OSHA.
13. THE LOCATION OF UTILITIES AND STRUCTURES SHOWN HEREIN HAS BEEN TAKEN FROM AVAILABLE RECORDS. OWNER DOES NOT WARRANT THE COMPLETENESS OR CORRECTNESS OF THEIR LOCATIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY ALL UTILITIES AND STRUCTURES WHETHER SHOWN HERE IN OR NOT, BEFORE COMMENCING WORK, AND PROTECT THEM FROM DAMAGE. SHOULD UTILITIES OR STRUCTURES BE ENCOUNTERED THAT ARE NOT INDICATED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
14. THE CONTRACTOR SHALL VERIFY AND COORDINATE WITH ENGINEER ANY UTILITY LINES AND EQUIPMENT THAT MAY INTERFERE WITH THE WORK.
15. ALL TEMPORARY UTILITIES NECESSARY FOR CONSTRUCTION SHALL BE PROVIDED AT THE EXPENSE OF THE CONTRACTOR.
16. IT IS NOTED THAT THE MUD LAKES DMMA WAS FORMERLY TAILINGS PONDS FOR THE FORMER ALCOA ALUMINUM PLANT. THE PONDS WERE USED FOR PROCESSING BAUXITE ORE FOR THE MANUFACTURE OF ALUMINA. AS SUCH, THE BOTTOM OF THE PONDS CONTAIN “RED MUD” (BAUXITE RESIDUE). APA HAS TESTED THESE RESIDUALS AND FOUND THEM TO BE NON-HAZARDOUS; HOWEVER, THESE RESIDUALS DO EXHIBIT A HIGH PH AND SHOULD BE AVOIDED. INSTALLATION OF THE WICK DRAINS WILL BE THROUGH THE BAUXITE MATERIALS. IT IS FURTHER NOTED THAT THERE IS AN EXISTING UNDERGROUND ELECTRIC LINE AND AN EXISTING UNDERGROUND WATER PIPE IN THE VICINITY OF THE NORTH DIKE ROADWAY SEE SHEETS V-101 AND C-102. NO EXCAVATION IS REQUIRED AT THESE LOCATIONS SO THESE UTILITIES SHOULD NOT BE ENCOUNTERED.

ENVIRONMENTAL PROTECTION:

1. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE UPON COMPLETION OF THE PROJECT ALL NECESSARY ENVIRONMENTAL PROTECTION AND WATER CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO SEDIMENT CONTROL DEVICES, TARPAULINS, AND OTHER DEVICES NECESSARY TO PREVENT SOILS, SEDIMENTS, AND OTHER CONSTRUCTION-RELATED MATERIAL FROM ENTERING THE WATER AND LEAVING THE IMMEDIATE VICINITY OF THE SITE.
2. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO MINIMIZE OR PREVENT ANY DAMAGE TO THE WATERWAY FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL OR FROM THE MANIPULATION OF EQUIPMENT AND/OR MATERIALS.
3. CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, VOLUMES 1 & 2, LATEST EDITION, TO PREVENT SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.
4. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO THE ADJACENT WATERWAY ANY EFFLUENT THAT HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH MAY CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. SHOULD WATER BE SO USED ON SITE FOR CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL CONTROL THE DISCHARGE OF SUCH WATER THROUGH THE USE OF WHATEVER DEVICES NECESSARY TO PROTECT AND MAINTAIN WATER QUALITY, TO SUSTAIN FISH LIFE, AND OTHERWISE PROTECT THE ENVIRONMENT.
5. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR CLEANUP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA.
6. THE CONTRACTOR SHALL SUBMIT A PROPOSED ENVIRONMENTAL PROTECTION AND WATER CONTROL PLAN TO THE ENGINEER FOR APPROVAL BEFORE WORK IS STARTED. SAID PLAN SHALL INCLUDE PROCEDURES FOR ENVIRONMENTAL PROTECTION AND WATER CONTROL IN RELATION TO DEMOLITION AND REMOVAL ACTIVITIES, CONSTRUCTION AND INSTALLATIONS, COORDINATION WITH OTHER WORK IN PROGRESS, A DESCRIPTION OF METHODS AND EQUIPMENT TO BE USED FOR EACH OPERATION, AND OF SEQUENCE OF OPERATIONS.
7. THE CONTRACTOR SHALL ABIDE BY ALL ENVIRONMENTAL PROTECTION REQUIREMENTS AND OTHER STIPULATIONS AND CONDITIONS STATED IN THE ALABAMA CODE, INCLUDING BUT NOT LIMITED TO THOSE CONCERNING CONFORMANCE WITH PLANS, MATERIAL DISPOSAL, MATERIAL AND EQUIPMENT STORAGE, SPILL REPORTING, PRECAUTIONS AGAINST CONTAMINATION OF WATERS, SEDIMENT AND EROSION CONTROL AND ALL OTHER SPECIAL CONDITIONS.

SEQUENCE OF CONSTRUCTION:

1. INSTALL EROSION AND SEDIMENT CONTROL (ESC) DEVICES AND ANY OTHER ENVIRONMENTAL CONTROLS IN ACCORDANCE WITH ADEM GUIDELINES.
2. CLEAR AND GRUB ALONG THE DIKE IN SAND FILL PLACEMENT AREA. CLEAR WICK DRAIN AREA OF VEGETATION.
3. INSTALL GEOTEXTILE IN EAST CELL WICK DRAIN AREA FROM STATION 90+00 TO STATION 00+50, INSTALL GEOTEXTILE IN WEST CELL WICK DRAIN AREA FROM STATION 160+00 TO STATION 162+00.
4. PLACE MINIMUM FIVE (5) FOOT THICK LAYER OF SAND ON GEOTEXTILE IN BOTH WICK DRAIN AREAS TO SUPPORT WICK DRAIN INSTALLATION EQUIPMENT. INSTALL WICK DRAINS TO REFUSAL DEPTH (APPROX. ELEVATION -22 FEET).
5. INSTALL INCLINOMETERS ALONG OUTBOARD SLOPES (INSTALLATION BY OTHERS).
6. INSTALL FIRST LAYER OF GEOTEXTILE ON EXISTING GROUND. BEGIN GEOTEXTILE PLACEMENT IN THE EAST CELL AT STATION 90+00 AND CONTINUE SOUTH ALONG THE CENTER DIKE TOWARD STATION 58+00. GETOEXTILE PLACEMENT WILL CONTINUE COUNTERCLOCKWISE ALONG THE INSIDE OF THE EAST CELL UNTIL COMPLETING THE INSTALLATION AT STATION 00+50.
7. FOLLOWING GEOTEXTILE INSTALLATION, SAND FILL WILL BE PLACED BEGINNING AT STATION 90+00 AND CONTINUING SOUTH ALONG THE CENTER DIKE. SAND WILL BE PLACED IN A MAXIMUM THICKNESS OF 36 INCHES WHILE MAINTAINING A MAXIMUM BUFFER OF 100’ OF EXPOSED GEOTEXTILE. CONTINUE SAND PLACEMENT IN COUNTERCLOCKWISE DIRECTION UNTIL REACHING STATION 00+50.
8. WHEN THE FIRST LIFT OF SAND PLACEMENT HAS BEEN COMPLETED TO STATION 0+50, THEN THE NEXT LIFT OF SAND WILL BE PLACED. PRIOR TO PLACING THIS LIFT, A GEOGRID LAYER WILL BE PLACED ON TOP OF THE FIRST LIFT, AT APPROXIMATE ELEVATION +52 FT. THE LIFT THICKNESS WILL BE A MAXIMUM OF ONE (1) FOOT AND WILL PROCEED IN A COUNTERCLOCKWISE DIRECTION.
9. SAND FILL FOR THE EAST CELL BASE DIKE WIDENING WILL CONTINUE IN MAXIMUM ONE (1) FOOT LIFTS IN THE COUNTERCLOCKWISE DIRECTION UNTIL THE BASE DIKE HAS BEEN CONSTRUCTED TO ELEVATION +58 FT. THE RATE OF FILL PLACEMENT WILL DEPEND ON THE STRENGTH GAIN OF THE UNDERLYING SOILS AS INDICATED BY THE GEOTECHNICAL INSTRUMENTATION AND AS DIRECTED BY THE ENGINEER.
10. AFTER THE SAND BASE DIKE WIDENING HAS BEEN COMPLETED FOR THE EAST CELL, WORK SHALL BEGIN FOR THE BASE DIKE WIDENING OF THE WEST CELL. INSTALL FIRST LAYER OF GEOTEXTILE ON EXISTING GROUND BEGINNING AT STATION 160+00 AND WORKING WEST ALONG THE NORTH DIKE TOWARD STATION 150+00. GETOEXTILE PLACEMENT WILL CONTINUE COUNTERCLOCKWISE ALONG THE INSIDE OF THE WEST CELL UNTIL COMPLETING THE INSTALLATION AT STATION 102+00.
11. FOLLOWING GEOTEXTILE INSTALLATION, SAND FILL WILL BE PLACED ON THE GETOEXTILE BEGINNING AT STATION 160+00 AND CONTINUING WEST ALONG THE NORTH DIKE. SAND WILL BE PLACED IN A MAXIMUM THICKNESS OF 36 INCHES WHILE MAINTAINING A MAXIMIM BUFFER OF 100’ OF EXPOSED GEOTEXTILE. CONTINUE SAND PLACEMENT IN COUNTERCLOCKWISE DIRECTION UNTIL REACHING STATION 102+00.
12. WHEN THE FIRST LIFT OF SAND PLACEMENT HAS BEEN COMPLETED TO STATION 102+00, THEN THE NEXT LIFT OF SAND WILL BE PLACED. PRIOR TO PLACING THIS LIFT, A GEOGRID LAYER WILL BE PLACED ON TOP OF THE FIRST LIFT FROM STATION 162+00 TO STATION 150+00, AT APPROXIMATE ELEVATION +52 FT. FROM STATION 150+00 TO STATION 102+00 A GEOTEXTILE WILL BE PLACED AT APPROXIMATE ELEVATION +52 FT. THE LIFT THICKNESS WILL BE A MAXIMUM OF ONE (1) FOOT AND WILL PROCEED IN A COUNTERCLOCKWISE DIRECTION.
13. SAND FILL FOR THE WEST CELL BASE DIKE WIDENING WILL CONTINUE IN MAXIMUM ONE (1) FOOT LIFTS IN THE COUNTERCLOCKWISE DIRECTION UNTIL THE BASE DIKE HAS BEEN CONSTRUCTED TO ELEVATION +58 FT. THE RATE OF FILL PLACEMENT WILL DEPEND ON THE STRENGTH GAIN OF THE UNDERLYING SOILS AS INDICATED BY THE GEOTECHNICAL INSTRUMENTATION AND AS DIRECTED BY THE ENGINEER.
14. FOLLOWING COMPLETION OF THE BASE DIKE WIDENING, THE DIKES IN BOTH CELLS SHALL BE RAISED IN 4-FOOT-HIGH INCREMENTS USING OFFSITE BORROW UNTIL A TOP OF DIKE ELEVATION OF +70 IS ACHIEVED. TIMING OF PLACEMENT OF EACH 4-FOOT-HIGH INCREMENT SHALL BE BASED ON STRENGTH GAIN OF THE UNDERLYING SOILS AS INDICATED BY THE GEOTECHNICAL INSTRUMENTATION AND AS DIRECTED BY THE ENGINEER.
15. THE DIKE RAISING WILL COMMENCE AT STATION 90+00 OF THE EAST CELL AND PROCEED IN A COUNTERCLOCKWISE DIRECTION AROUND THE EAST CELL TO FINISH AT STATION 90+00. THE LIFT THICKNESS WILL BE A MAXIMUM OF EIGHT (8) INCHES. THE DIKE RAISING WILL CONTINUE IN A COUNTERCLOCKWISE DIRECTION AROUND THE EAST CELL IN MAXIMUM EIGHT (8) INCH LIFTS UNTIL THE 4-FOOT-HIGH INCREMENT IS COMPLETED.
16. FOLLOWING COMPLETION OF THE EAST CELL DIKE RAISING, THE DIKE RAISING WILL COMMENCE AT STATION 163+00 OF THE WEST CELL AND PROCEED IN A COUNTERCLOCKWISE DIRECTION AROUND THE WEST CELL TO FINISH AT STATION 101+00. THE LIFT THICKNESS WILL BE A MAXIMUM OF EIGHT (8) INCHES. THE DIKE RAISING WILL CONTINUE IN A COUNTERCLOCKWISE DIRECTION AROUND THE WEST CELL FROM STATION 163+00 TO STATION 101+00 IN MAXIMUM EIGHT (8) INCH LIFTS UNTIL THE 4-FOOT-HIGH INCREMENT IS COMPLETED.
17. VEGETATE EXTERIOR AND INTERIOR DIKE SLOPES.
18. REMOVE EROSION AND SEDIMENT CONTROL DEVICES.

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ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

INDEX DRAWINGS, GENERAL NOTES AND SEQUENCE OF CONSTRUCTION

Rev.	
Date:	2025-04-04
M&N Project No.	212511-04
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)
Designed by:	PWK
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Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL

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ALABAMA LICENSED PROFESSIONAL ENGINEER No. 50467 PETER W. KOTULAK
Peter W Kotulak
2025.04.04
SEAL 13:14:05-04'00'

Sheet Reference No.
G-002

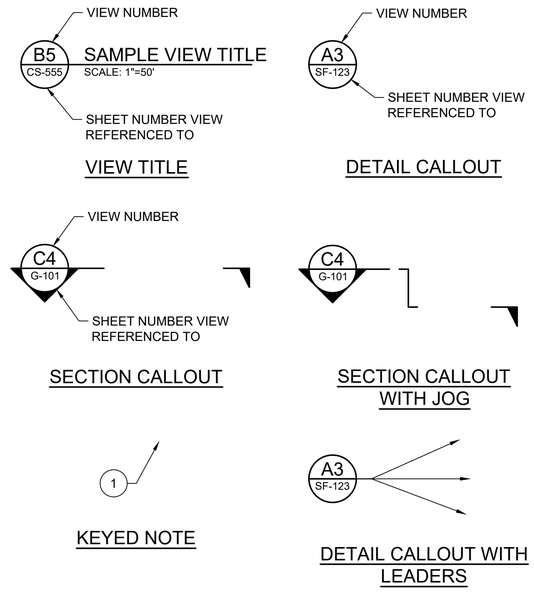
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

File: \\mne.net\projects\BR\212511-04\20 CADD_Active_SheetSet Blakeley DMMA\212511\04-BLK-G-002 ; Plotted: 4/4/2025 8:45 AM by CLARITY TASK 1 ; Saved: 4/1/2025 12:14 PM by HRIDOUANE

ABBREVIATIONS

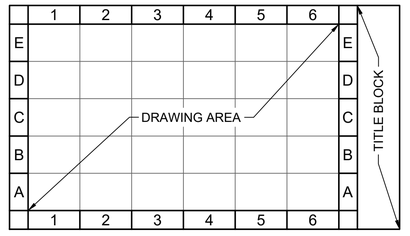
ABBR	ABBREVIATION
ABUT	ABUTMENT
ABV	ABOVE
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BEGIN CURVE or BARE COPPER
BL	BASELINE
BM	BENCH MARK
BOT	BOTTOM
BVC	BEGIN VERTICAL CURVE
C	CONDUIT or CONTROL
CAB	CRUSHED AGGREGATE BASE
CB	CATCH BASIN
CF	CUBIC FEET
CL	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS or CONTINUE
COORD	COORDINATE
CU	CUBIC or COPPER
DACS	DRAWING AREA COORDINATE SYSTEM
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DMMA	DREDGED MATERIAL MANAGEMENT AREA
DN	DOWN
DWGS	DRAWINGS
E	EAST
EA	EACH
EC	END CURVE
EF	EACH FACE
EG	EXISTING GROUND
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
ES	EACH SIDE
EVC	END VERTICAL CURVE
EW	EACH WAY or EXISTING WATER
EXIST.	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FG	FINAL GRADE, FINISHED GRADE or FINISHED GROUND
FH	FIRE HYDRANT
FT	FOOT or FEET
FTG	FOOTING
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GND	GROUND
GPM	GALLONS PER MINUTE
H	HEIGHT
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
IN.	INCHES
INV	INVERT
IPS	INSIDE PIPE SIZE
JB	JUNCTION BOX
JS	JUNCTION STRUCTURE
JT	JOINT
KSI	KIPS PER SQUARE INCH
L	LENGTH
LA	LIGHTING ARRESTOR
LAT	LATERAL
LB	POUND
LF	LINEAR or LINEAL FEET
LG	LONG
MATL	MATERIAL
MAX	MAXIMUM
MH	MANHOLE
MHW	MEAN HIGH WATER
MHHW	MEAN HIGHER HIGH WATER
MIN	MINIMUM
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MON	MONUMENT
MSL	MEAN SEA LEVEL
N	NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OBS	OBSTRUCTION
OC	ON CENTER
OD	OUTSIDE DIAMETER
OG	ORIGINAL GRADE
OH	OVERHEAD
PC	POINT OF CURVATURE
PCF	POUND PER CUBIC FOOT
PI	POINT OF INTERSECTION
PL	PLATE or PROPERTY LINE
POC	POINT ON CURVE
POT	POINT ON TANGENT
POV	POINT ON VERTICAL CURVE
PRC	POINT OF REVERSE CURVE
PRESS	PRESSURE
PRI	PRIMARY
PRVC	POINT OF REVERSE VERTICAL CURVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAGE
PT	POINT or POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RAD	RADIUS
REQD	REQUIRED
ROW	RIGHT OF WAY
RT	RIGHT
SCH	SCHEDULE
SD	STORM DRAIN
SF	SQUARE FOOT or FEET
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQ	SQUARE
STA	STATION
STD	STANDARD
STRUCT	STRUCTURE or STRUCTURAL
SYM	SYMMETRICAL
T	TANGENT
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TEMP	TEMPERATURE or TEMPORARY
THRU	THROUGH
TOS	TOP OF STEEL
TOT	TOTAL
TRANSV	TRANSVERSE
TW	TOP OF WALL
TYP	TYPICAL
UTIL	UTILITY
VAR	VARIES
VERT	VERTICAL
W	WATER, WEST, WIDE or WIRE
WT	WEIGHT
WWF	WELDED WIRE FABRIC

LEGEND



* VIEW NUMBER IS BASED ON THE (DACS) LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM;
"VIEW NO./SHEET NO." (EG A1/CS-5001)

SHEET TYPE DESIGNATORS	
0	GENERAL (COVER SHEET, LEGEND, NOTES)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS (NOT TYPICALLY USED)
3	SECTIONS (OVERALL VIEWS)
4	LARGE-SCALE VIEWS (PLANS, SECT. OR ELEV. - NOT DETAILS)
5	DETAILS (MAY BE PLAN, SECT. OR ELEV. VIEWS)
6	SCHEDULES
7	USER DEFINED
8	USER DEFINED
9	3D ISOMETRIC

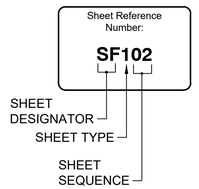


DRAWING AREA COORDINATE SYSTEM (DACS)

DISCIPLINE DESIGNATORS	
DISCIPLINE	DESIGNATOR
GENERAL	G
SURVEY/MAPPING	V
GEOTECHNICAL	B
CIVIL WORKS	W
CIVIL	C
STRUCTURAL	S
MECHANICAL	M
ELECTRICAL	E
OTHER DISCIPLINES	X

SECONDARY DESIGNATORS	
DEMOLITION	D
GENERAL	G
SUBSTRUCTURE	B
FRAMING	F
COMPONENT	C
SITE	S

REVISION NUMBERING	
A00, A01...	PRE-BID SUBMITTALS
B00, B01...	BID SUBMITTALS
000, 001...	CONSTRUCTION SUBMITTALS



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

Designed by: PWK
Dwn by: ED/HR
Ckd by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale: 1:1 (D SHEET)
Plot scale: 1:1 (D SHEET)

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 50467
PETER W. KOMLAK
Peter W Komlak
2025.04.04
SEAL 13:14:06-04'00'

Sheet Reference No.
G-003
INDEX: 3 OF 34

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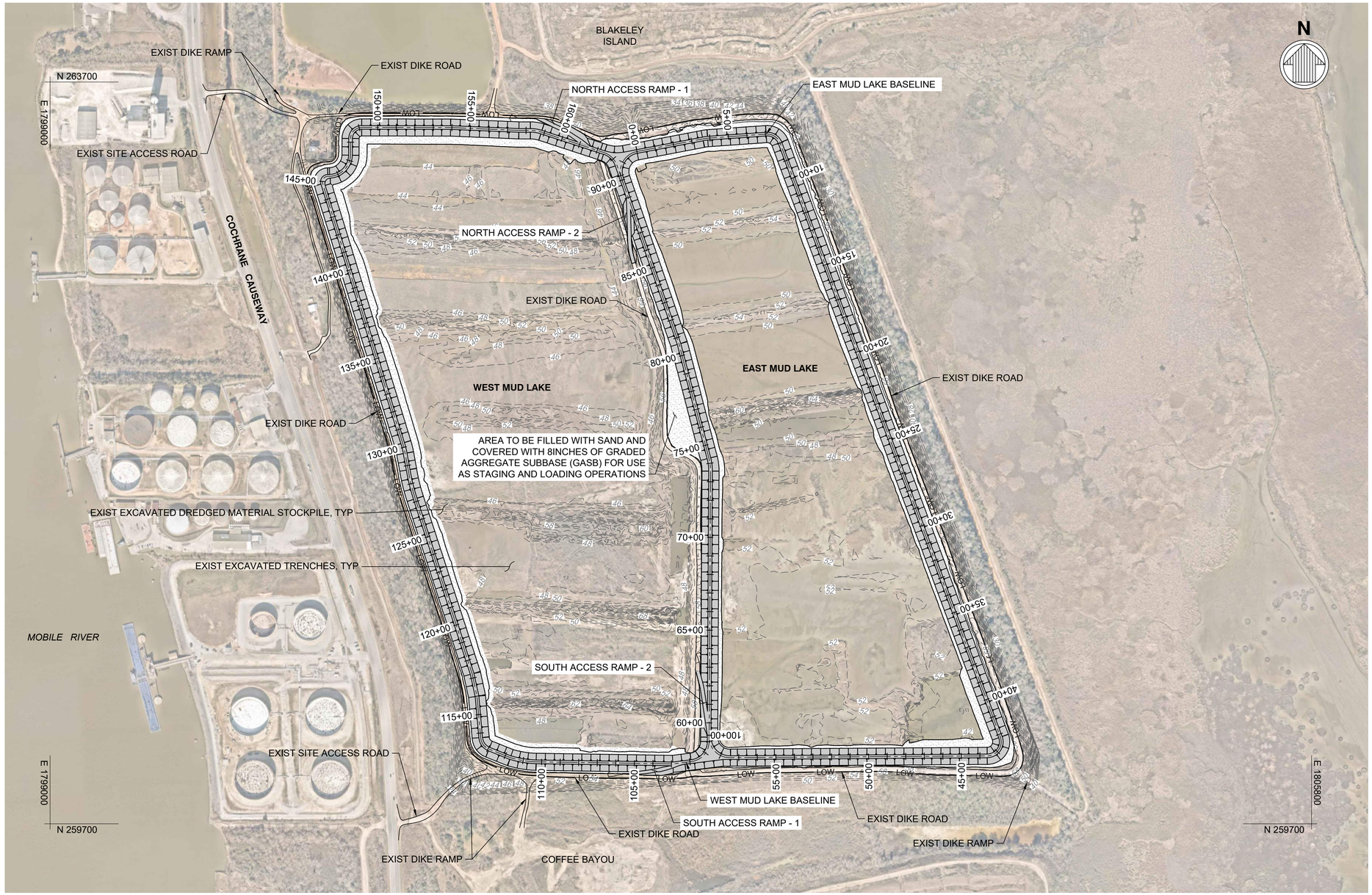
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



LEGEND

- LOW — LIMIT OF WORK
- BASELINE
- LIMIT OF BASE DIKE WIDENING EL +58.0
- LIMIT OF DIKE DIKE RAISING TO EL +70.0

A1 / G-101 PLAN - GENERAL ARRANGEMENT AND LIMIT OF WORK
SCALE: 1" = 300'

300' 0' 300' 600'
SCALE: 1"=300'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Rev.	Description	Date	Appr
	Mark		

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

PLAN - GENERAL ARRANGEMENT AND LIMIT OF WORK

Date: 2025-04-04
M&N Project No.: 212511-04
Drawing code:
Drawing Scale: 1:1 (D SHEET)
Plot scale: 1:1 (D SHEET)
Designed by: PWK
Drawn by: EDHR
Cad by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM
moffatt & nichol

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

ALABAMA LICENSED
No. 50467 PROFESSIONAL
ENGINEER
PETER W. KOTULAK

Peter W Kotulak
2025.04.04
SEAL 13:14:07-04'00'

Sheet Reference No.
G-101
INDEX: 4 OF 34

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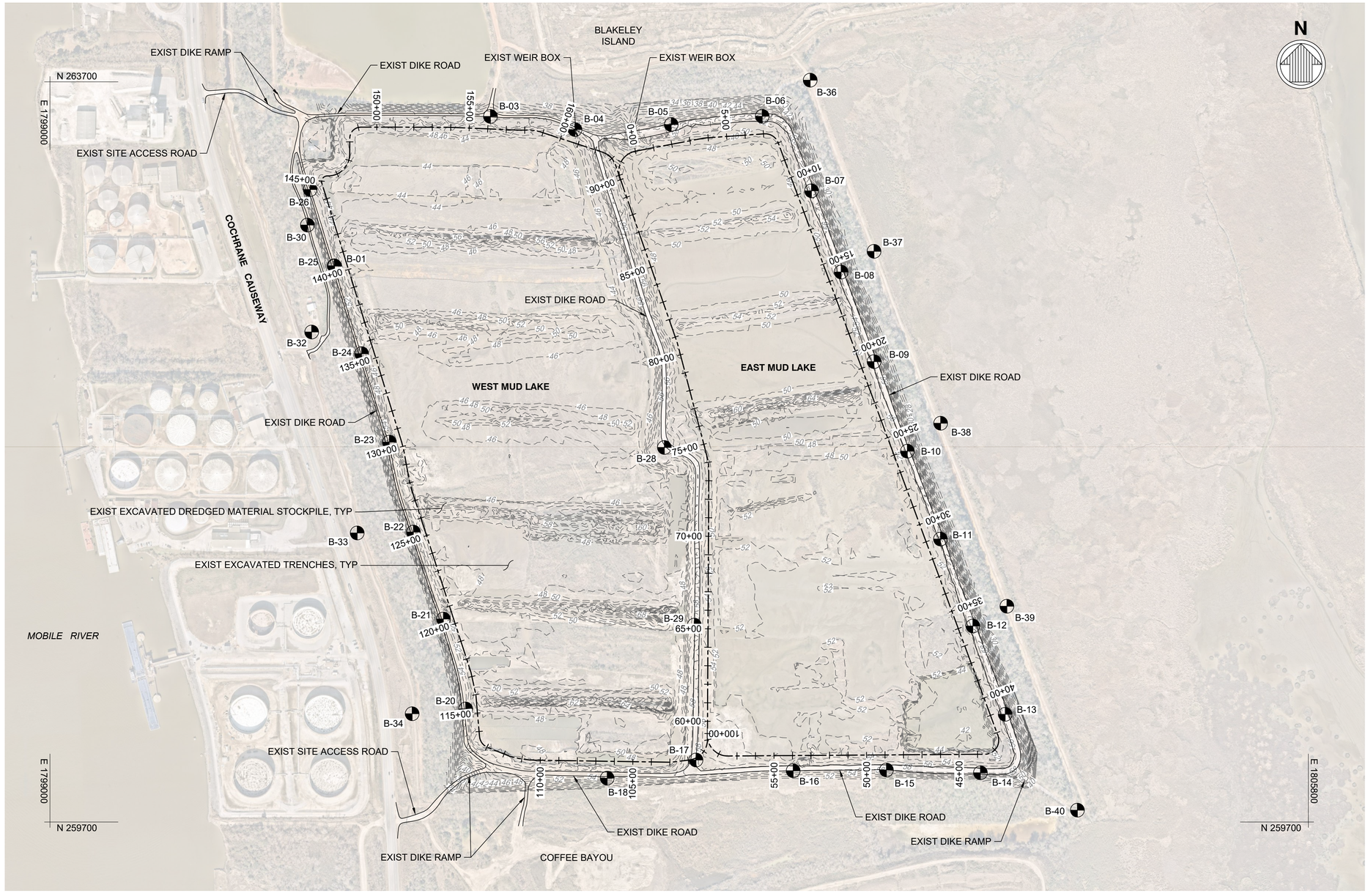

NOTES

1. FOR INDEX DRAWINGS, GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE SHEET G-002.
2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.

BORING TABLE		
POINT #	NORTHING	EASTING
B-01	262704.00	1800538.00
B-03	263513.00	1801380.00
B-04	263442.00	1801837.00
B-05	263469.00	1802357.00
B-06	263514.00	1802849.00
B-07	263111.00	1803115.00
B-08	262672.00	1803275.00
B-09	262188.00	1803453.00
B-10	261704.00	1803633.00
B-11	261229.00	1803812.00
B-12	260759.00	1803987.00
B-13	260282.00	1804162.00
B-14	259966.00	1804028.00
B-15	259981.00	1803520.00
B-16	259977.00	1803016.00
B-17	260035.00	1802491.00
B-18	259937.00	1802011.00
B-20	260311.00	1801246.00
B-21	260797.00	1801126.00
B-22	261267.00	1800964.00
B-23	261753.00	1800834.00
B-24	262231.00	1800684.00
B-25	262706.00	1800536.00
B-26	263118.00	1800406.00
B-28	261724.00	1802320.00
B-29	260764.00	1802482.00
B-30	262926.00	1800391.00
B-32	262348.00	1800414.00
B-33	261262.00	1800660.00
B-34	260285.00	1800957.00
B-36	263709.00	1803108.00
B-37	262784.00	1803453.00
B-38	261855.00	1803813.00
B-39	260866.00	1804171.00
B-40	259764.00	1804552.00

A1 / B-101 PLAN - BORING LOCATION
SCALE: 1" = 300'

300' 0' 300' 600'
SCALE: 1"=300'

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ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

PLAN - BORING LOCATION

Designed by: PWK
Drawn by: ED/HR
Cad by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Date: 2025-04-04
M&N Project No. 212511-04
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Plot scale: 1:1 (D SHEET)

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No. 50467 PROFESSIONAL
ENGINEER
PETER WILLIAM KOTULAK
Peter Kotulak
2025.04.04
SEAL 13:14:07-04'00'

Sheet Reference No.
B-101
INDEX: 5 OF 34

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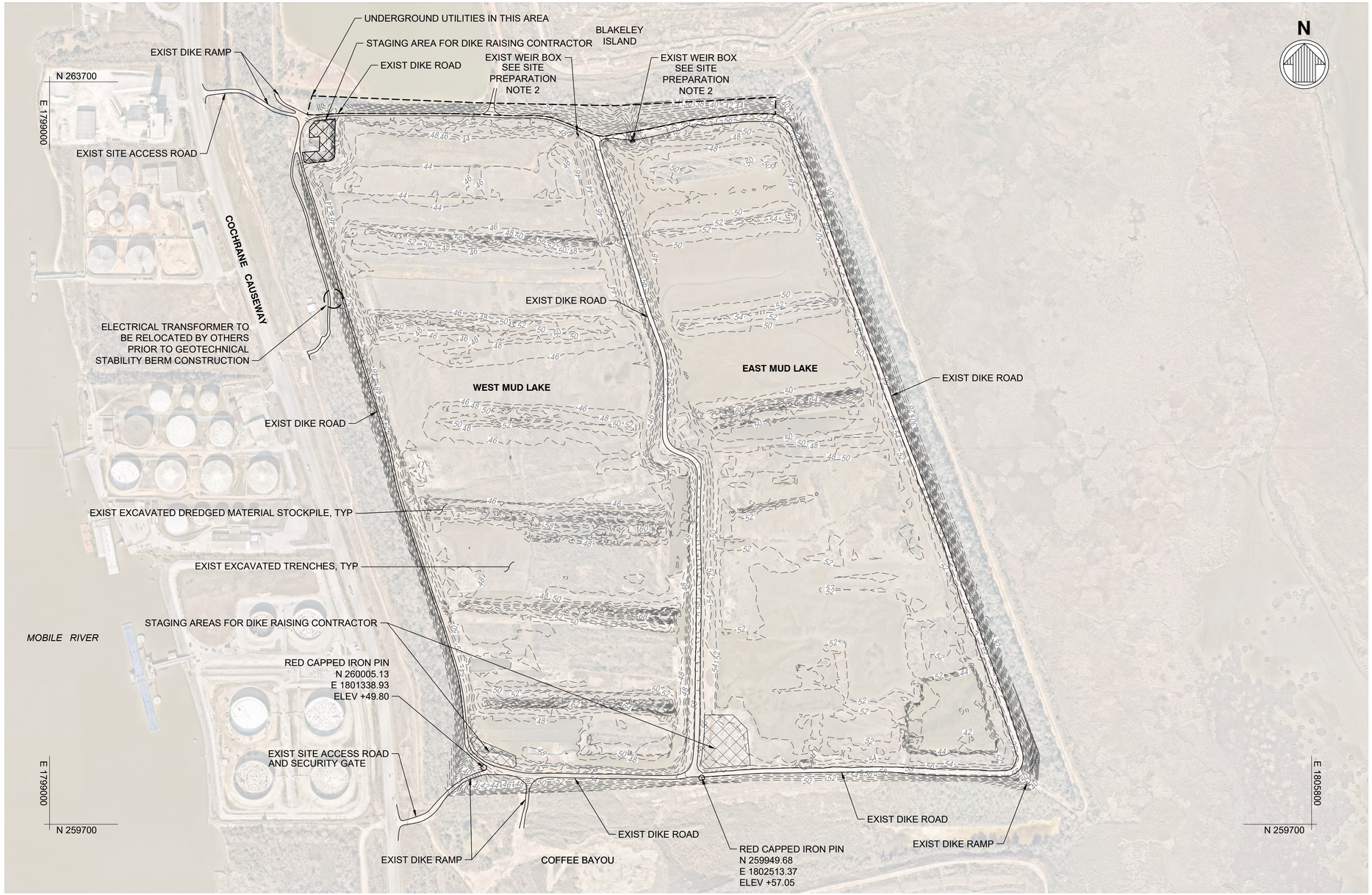

A1 / V-101 PLAN - EXISTING SITE CONDITIONS AND SITE PREPARATION
SCALE: 1" = 300'

NOTES

1. FOR INDEX DRAWINGS, GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE SHEET G-002.
2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.
3. SEE GENERAL NOTES REGARDING THE SURVEY CONTROL MONUMENTS SHOWN THIS SHEET.

SITE PREPARATION NOTES:

1. CLEAR AND GRUB ENTIRE LIMIT OF WORK AREA AS REQUIRED FOR TRENCHING, STOCKPILING AND DIKE RAISING ACTIVITIES.
2. WEST AND EAST WEIR BOX TO BE REMOVED AFTER NEW WEIR BOXES HAVE BEEN INSTALED, SEE WEIR BOX DRAWINGS PACKAGE.

300' 0' 300' 600'

SCALE: 1"=300'

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ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES DIKE RAISING PROJECT

PLAN - EXISTING SITE CONDITIONS AND SITE PREPARATION

Rev.
Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale: Plot scale: 1:1 (D SHEET)
Designed by: PWK
Drn by: EDHR
Ckd by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

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PETER WILLIAM KOTULAK
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Sheet Reference No.
V-101
INDEX: 6 OF 34

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

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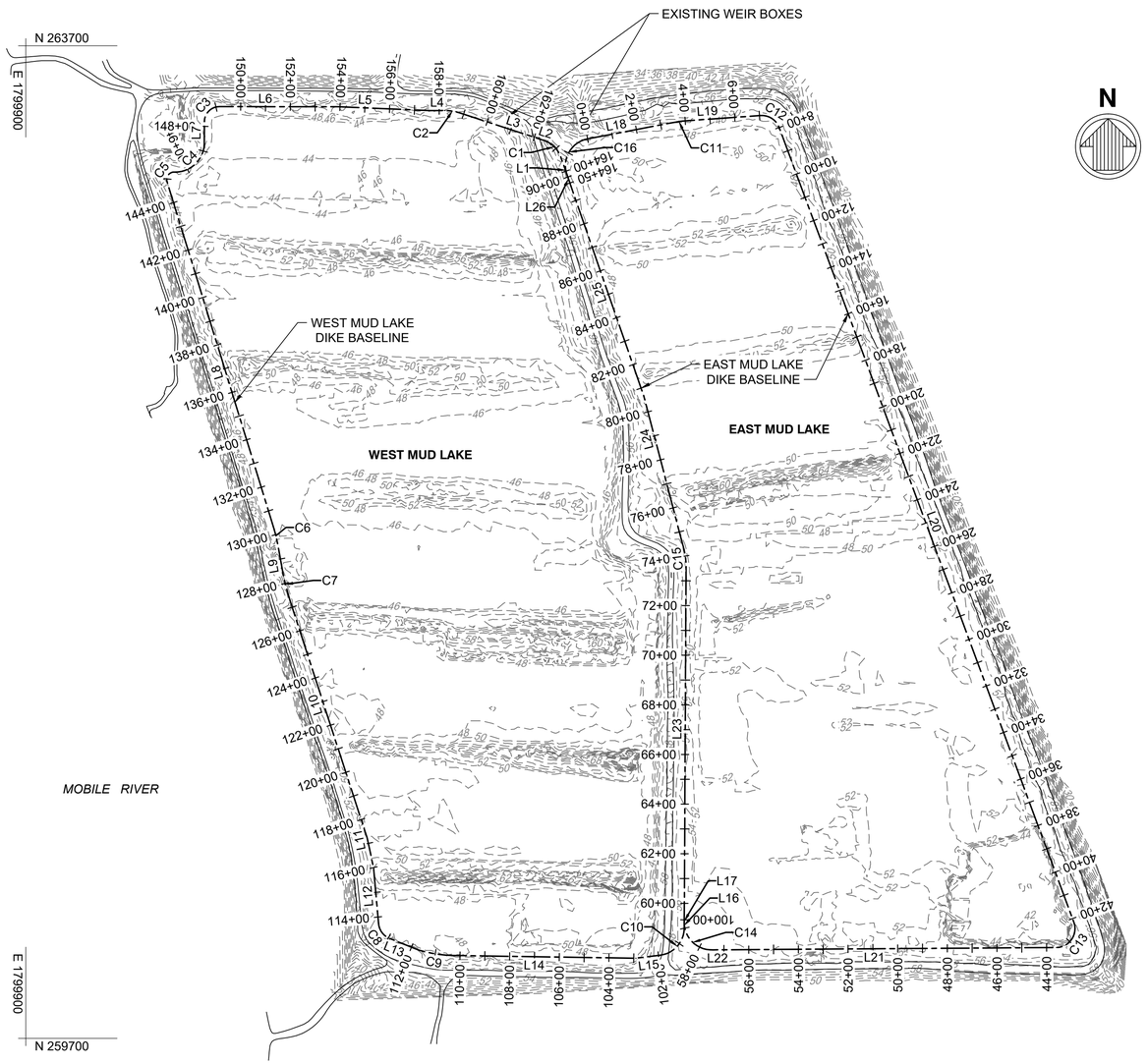

A1
C-101

PLAN - SITE GEOMETRY AND COORDINATES DATA

SCALE: 1" = 300'

LEGEND

BASELINE

BASELINE GEOMETRY TABLE

NUMBER	NAME	STATION	NORTHING	EASTING	BEARING	CHORD (FT)	R (FT)	Dc	L (FT)	T (FT)	DELTA
L18	EAST DIKE	0+00.00	263325.06	1802163.34	N79° 11' 56.01"E				361.64		
L19	EAST DIKE	3+87.71	263396.82	1802544.32	N85° 57' 35.02"E				316.19		
L20	EAST DIKE	7+97.43	263373.04	1802934.27	S20° 20' 26.43"E				3419.02		
L21	EAST DIKE	43+60.90	260066.11	1804051.51	S89° 36' 33.17"W				1346.42		
L22	EAST DIKE	57+07.32	260056.92	1802705.13	S89° 36' 33.17"W				36.01		
L23	EAST DIKE	59+23.05	260167.19	1802552.77	N00° 17' 30.06"E				1434.60		
L24	EAST DIKE	74+27.51	261670.88	1802551.38	N14° 38' 55.32"W				637.03		
L25	EAST DIKE	80+64.54	262287.20	1802390.28	N19° 08' 34.66"W				910.05		
L26	EAST DIKE	89+74.59	263146.93	1802091.85	N19° 08' 34.66"W				36.00		
C11	EAST DIKE	3+61.64 3+74.69 3+87.71	263392.84 263395.67 263396.82	1802518.58 1802531.32 1802544.32	N81° 12' 06.17"E	26.047	200.00	28° 57' 18"	26.07	13.051	7° 28' 02"
C12	EAST DIKE	7+03.89 7+57.78 7+97.43	263419.10 263422.75 263373.04	1802859.72 1802913.48 1802934.27	S58° 17' 23.42"E	87.632	75.27	83° 15' 13"	93.54	53.888	71° 11' 59"
C13	EAST DIKE	42+16.45 43+22.81 43+60.90	260167.22 260066.83 260066.11	1804122.73 1804157.87 1804051.51	S35° 09' 25.57"W	123.672	76.00	82° 16' 44"	144.46	106.360	108° 54' 15"
C14	EAST DIKE	57+43.33 58+60.35 59+23.05	260056.68 260050.18 260167.19	1802669.12 1802552.29 1802552.77	N46° 28' 23.14"W	160.463	110.22	53° 57' 16"	179.72	117.013	93° 25' 27"
C15	EAST DIKE	73+57.65 73+92.78 74+27.51	261601.77 261636.89 261670.88	1802560.08 1802560.26 1802551.38	N07° 10' 31.88"W	69.659	267.80	21° 31' 18"	69.86	35.128	14° 56' 46"
C16	EAST DIKE	90+10.59 91+37.90 91+99.39	263180.94 263301.21 263325.06	1802080.04 1802038.29 1802163.34	N30° 01' 40.67"E	166.466	110.00	54° 04' 17"	188.80	127.306	98° 20' 31"
L1	WEST DIKE	163+40.38	263250.86	1802055.77	S19° 08' 34.66"E				110.01		
L2	WEST DIKE	162+16.67	263326.31	1801964.71	S71° 54' 07.98"E				22.42		
L3	WEST DIKE	158+83.79	263429.71	1801648.30	S71° 54' 07.98"E				332.88		
L4	WEST DIKE	157+61.31	263439.10	1801526.81	N89° 59' 18.66"E				61.72		
L5	WEST DIKE	153+92.80	263454.37	1801158.62	S87° 37' 29.89"E				368.51		
L6	WEST DIKE	149+14.01	263455.08	1800679.83	S89° 54' 55.52"E				478.79		
L7	WEST DIKE	147+29.91	263305.32	1800619.17	N00° 21' 31.56"E				90.13		
L8	WEST DIKE	130+23.89	261752.82	1800900.27	N17° 07' 22.27"W				1464.53		
L9	WEST DIKE	128+76.68	261608.73	1800930.01	N10° 21' 49.86"W				90.52		
L10	WEST DIKE	117+22.88	260508.27	1801274.98	N17° 59' 30.24"W				992.48		
L11	WEST DIKE	115+99.04	260387.25	1801301.19	N12° 13' 19.66"W				123.83		
L12	WEST DIKE	113+75.76	260164.84	1801320.96	N05° 04' 48.12"W				223.28		
L13	WEST DIKE	111+70.76	260056.65	1801480.98	N68° 16' 05.37"W				124.07		
L14	WEST DIKE	102+92.50	260022.94	1802356.91	N89° 08' 02.89"W				737.00		
L15	WEST DIKE	101+93.38	260035.16	1802455.28	S82° 55' 09.34"W				99.12		
L16	WEST DIKE	100+10.47	260167.20	1802552.77	S00° 17' 30.06"W				23.33		
L17	WEST DIKE	100+00.00	260177.67	1802552.83	S00° 17' 30.06"W				10.47		
C1	WEST DIKE	162+39.09 162+93.65 163+40.38	263319.34 263302.39 263250.86	1801986.03 1802037.88 1802055.77	S45° 31' 21.32"E	97.750	110.00	54° 04' 17"	101.29	54.556	52° 45' 33"
C2	WEST DIKE	158+23.03 158+53.67 158+83.79	263439.11 263439.23 263429.71	1801588.53 1801619.18 1801648.30	S81° 03' 46.49"E	60.504	190.00	30° 30' 54"	60.76	30.643	18° 19' 24"
C3	WEST DIKE	148+20.04 148+79.76 149+14.01	263395.45 263455.17 263455.08	1800619.74 1800620.11 1800679.83	N45° 13' 18.02"E	84.650	60.00	112° 53' 00"	93.96	59.714	89° 43' 33"
C4	WEST DIKE	145+45.44 146+63.19 147+29.91	263191.25 263187.61 263305.32	1800498.68 1800616.37 1800619.17	N46° 34' 03.75"E	165.926	116.91	50° 38' 25"	184.48	117.749	90° 24' 33"
C5	WEST DIKE	144+88.42 145+30.40 145+45.44	263152.43 263192.55 263191.25	1800469.08 1800456.72 1800498.68	N37° 19' 28.93"E	48.815	30.00	0° 00' 00"	57.02	41.977	108° 53' 42"
C6	WEST DIKE	129+67.20 129+95.57 130+23.89	261697.77 261725.63 261752.82	1800913.73 1800908.38 1800900.27	N13° 44' 20.45"W	56.666	566.18	10° 07' 58"	56.69	28.369	5° 44' 13"
C7	WEST DIKE	127+15.35 127+96.19 128+76.68	261452.22 261528.94 261608.73	1800968.42 1800942.95 1800930.01	N13° 47' 15.35"W	161.154	1008.79	5° 40' 55"	161.33	80.835	9° 09' 46"
C8	WEST DIKE	112+94.82 113+40.26 113+75.76	260102.59 260119.48 260164.84	1801365.73 1801323.55 1801320.96	N35° 43' 05.36"W	76.679	71.44	88° 50' 30"	80.94	45.438	64° 55' 03"
C9	WEST DIKE	110+29.50 111+00.54 111+70.76	260034.07 260036.08 260056.65	1801620.00 1801548.98 1801480.98	N80° 46' 35.76"W	140.847	532.04	10° 47' 06"	141.26	71.049	15° 12' 45"
C10	WEST DIKE	100+33.80 101+31.33 101+93.38	260143.87 260046.35 260035.16	1802552.66 1802552.16 1802455.28	S41° 51' 05.09"W	145.948	110.00	54° 04' 17"	159.58	97.524	83° 07' 10"

300' 0' 300' 600'

SCALE: 1"=300'

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DIKE RAISING PROJECT

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AND COORDINATES DATA

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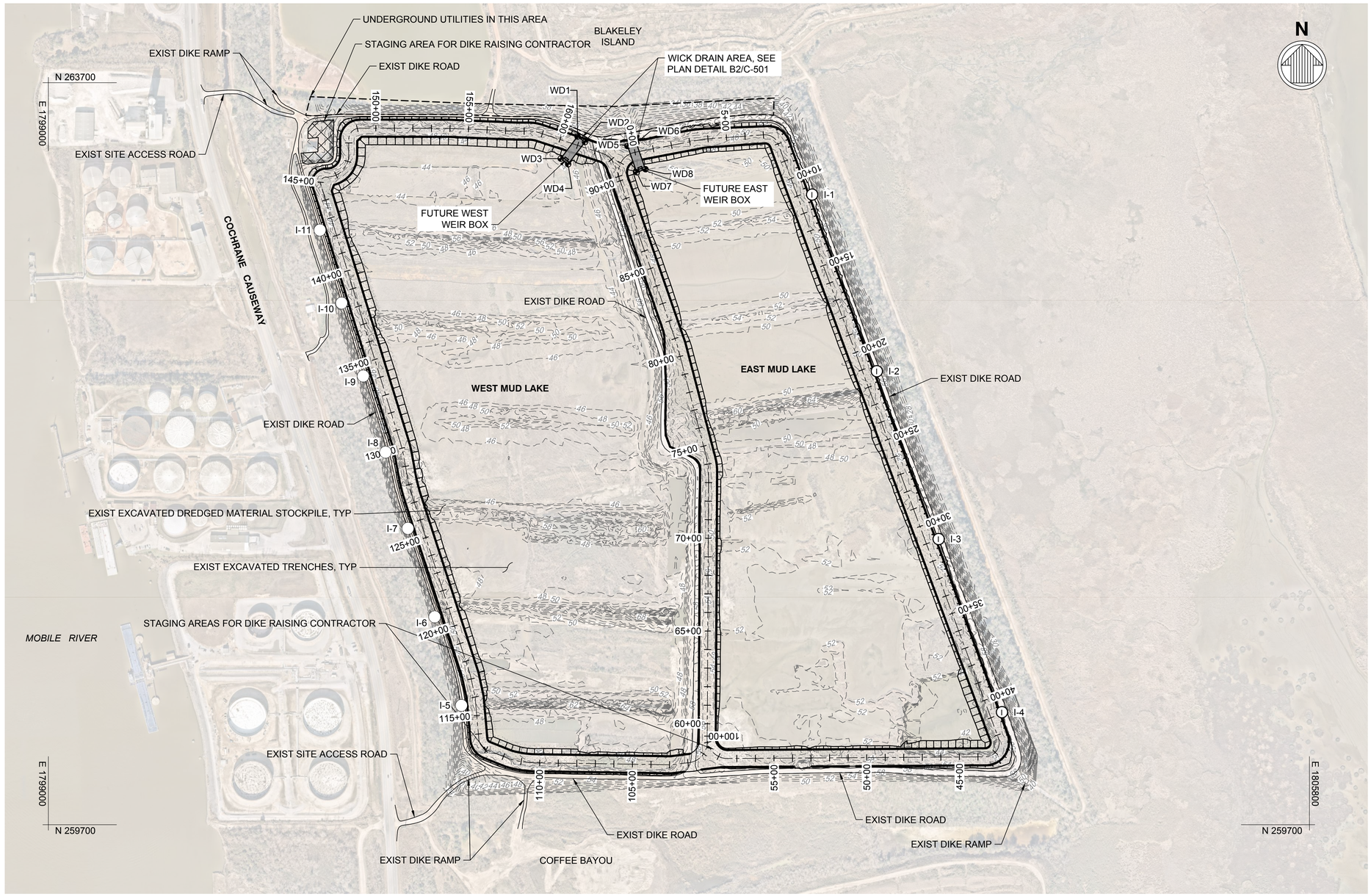

A1 / C-102 PLAN - SAND BASE DIKE WIDENING
SCALE: 1" = 300'

NOTES

1. FOR GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE SHEET G-002.
2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.
3. FOR INCLINOMETER DETAIL, SEE SHEET C-501.
4. FOR WICK DRAIN PLAN DETAIL, SEE SHEET C-501.
5. FOR WICK DRAIN DEPTH, SEE EAST CELL DIKE SECTION 0+00 ON SHEET C-310 AND WEST CELL DIKE SECTION 161+00 ON SHEET C-324.

LEGEND

(I) # INCLINOMETER

WD WICK DRAIN WORKING POINT

INCLINOMETER LOCATION TABLE		
POINT #	NORTHING	EASTING
I-1	263097.01	1803118.44
I-2	262144.78	1803467.29
I-3	261239.90	1803800.46
I-4	260306.62	1804142.06
I-5	260343.23	1801227.25
I-6	260820.38	1801082.90
I-7	261297.54	1800938.56
I-8	261708.18	1800818.16
I-9	262118.82	1800697.75
I-10	262512.22	1800581.07
I-11	262905.62	1800464.39

WICK DRAIN LOCATION TABLE		
POINT #	NORTHING	EASTING
WD1	263410.31	1801853.51
WD2	263380.07	1801893.33
WD3	263290.85	1801762.79
WD4	263260.61	1801802.61
WD5	263358.98	1802122.90
WD6	263375.43	1802170.12
WD7	263217.33	1802172.25
WD8	263233.78	1802219.47

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Sheet Reference No.
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INDEX: 8 OF 34

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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



A1 / C-103 PLAN - BORROW AREA
SCALE: 1" = 1000'

NOTES

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2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.

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PLAN - BORROW AREA

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Reviewed by:	TJS
Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL
Date:	2025-04-04
Cad by:	PGV
M&N Project No.	212511-04
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)

Sheet Reference No.
C-103
INDEX: 9 OF 34

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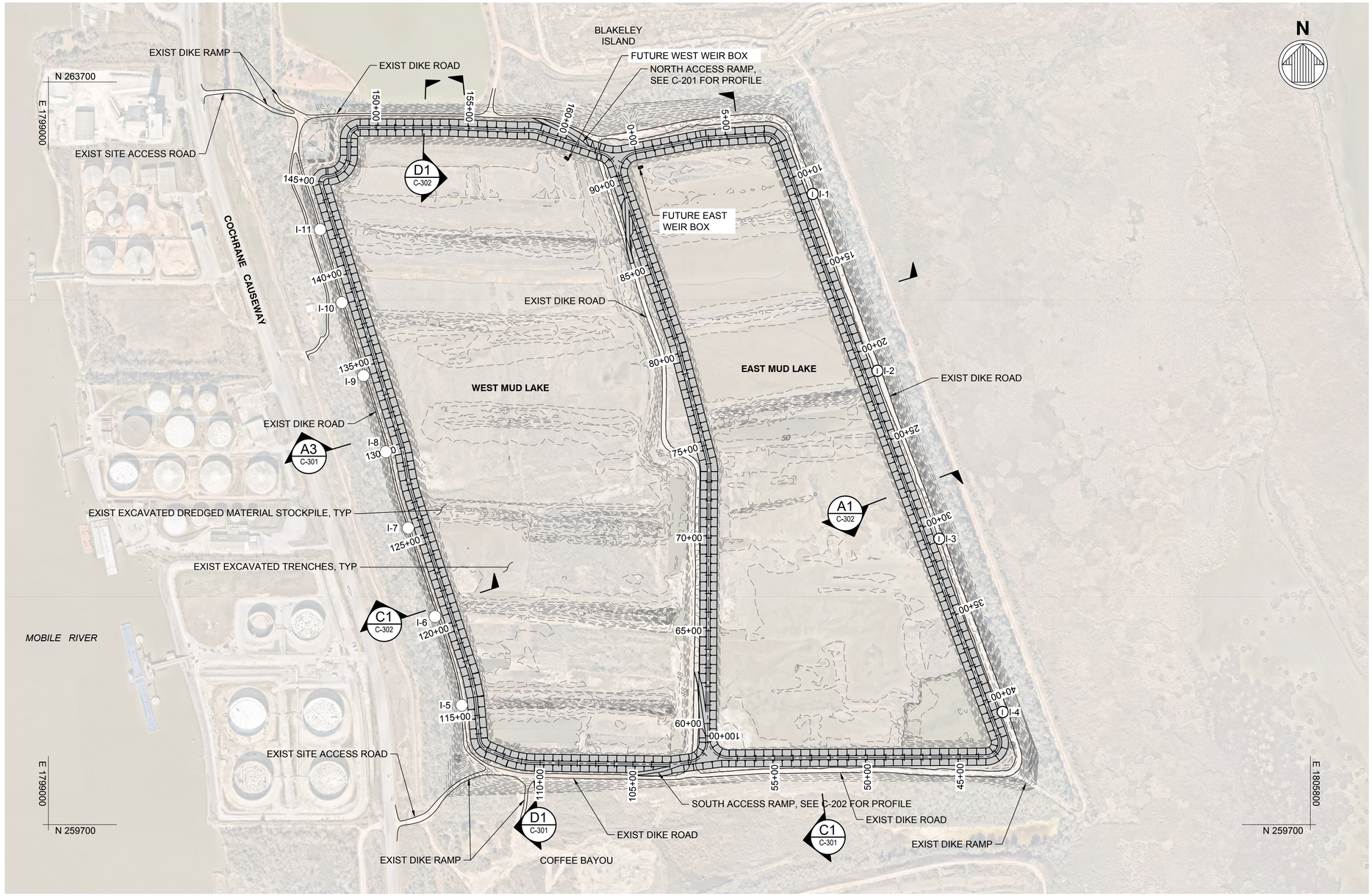

A1 C-104 PLAN - DIKE RAISING (EL +70.0)
SCALE: 1" = 300'

NOTES

1. FOR GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE SHEET G-002.
2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.
3. FOR INCLINOMETER DETAIL, SEE SHEET C-501.

LEGEND

Ⓘ # INCLINOMETER

300' 0' 300' 600'
SCALE: 1"=300'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

PLAN - DIKE RAISING (EL +70.0)

Rev.
Date: 2025-04-04
M&N Project No. 212511-04
Drawing scale:
Designed by: PWK
Drawn by: ED/HR
Chd by: PGV
Reviewed by: TJS
Submitted by: SUBMITTERS NAME MOFFATT & NICHOL
Drawing Scale:
Plot scale: 1:1 (0 SHEET)

moffatt & nichol
11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM

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

ALABAMA LICENSED
No. 50467 PROFESSIONAL
PETER WILLIAM KOTULAK
ENGINEER
Peter W Kotulak
2025.04.04
SEAL 13:14:10-04'00'

Sheet Reference No.
C-104
INDEX: 10 OF 34

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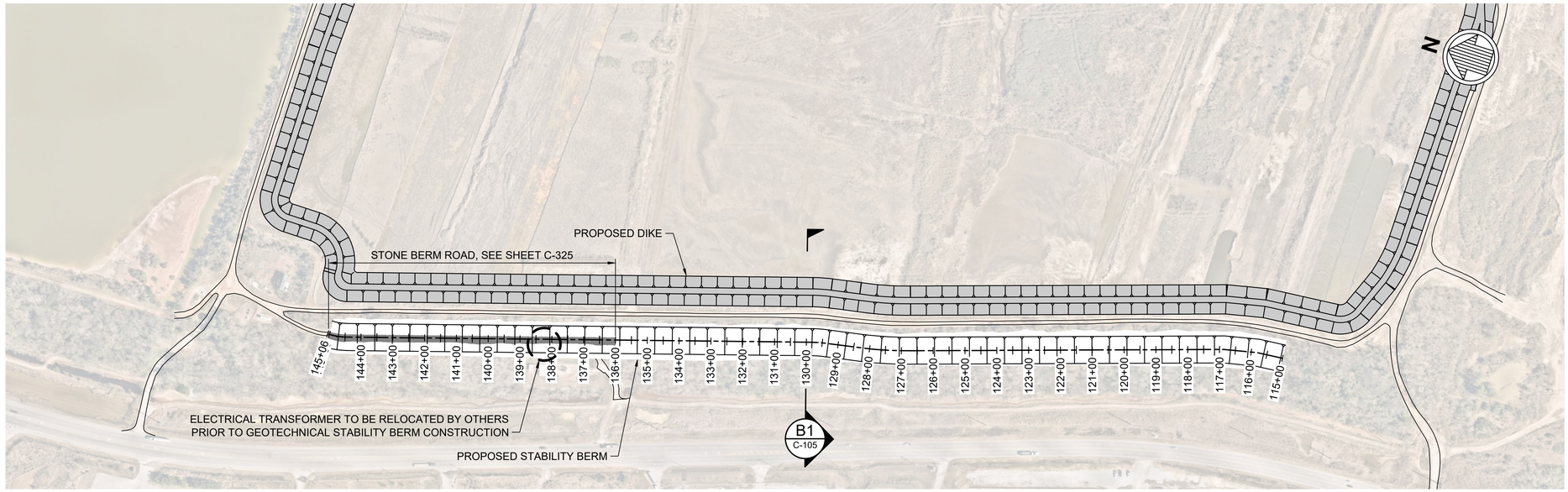
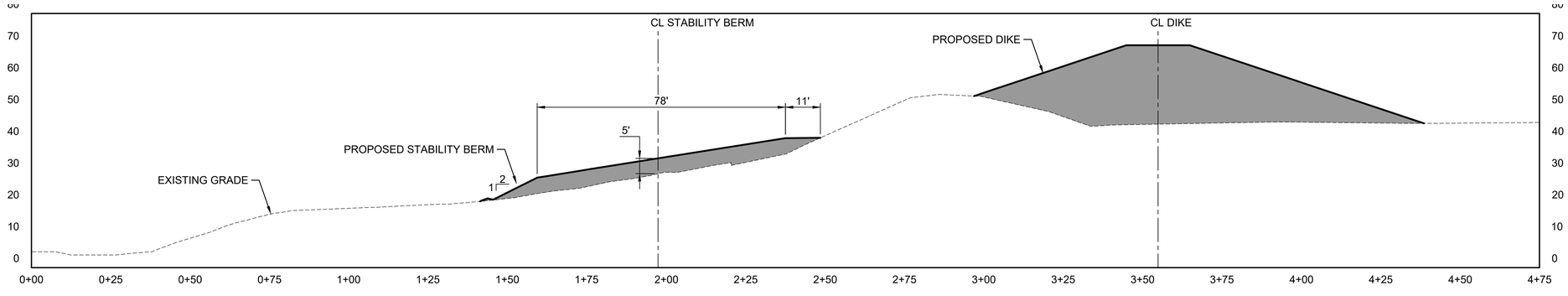


C1 / C-105 PLAN - STABILITY BERM
SCALE: 1" = 200'



B1 / C-105 TYPICAL SECTION - STABILITY BERM
SCALE: 1" = 20'

20' 0' 20' 40'
SCALE: 1"=20'

200' 0' 200' 400'
SCALE: 1"=200'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

NOTES

1. FOR GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE SHEET G-002.
2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

OPTIONAL GEOTECHNICAL STABILITY BERM

Designed by: PWK
Drawn by: EDHR
Coord by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)
Rev:

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PORT OF MOBILE

ALABAMA LICENSED
No. 50467 PROFESSIONAL
ENGINEER
PETER W. KOTULAK
Peter W. Kotulak
2025.04.04
SEAL 13:14:10-04'00'

Sheet Reference No.
C-105
INDEX: 11 OF 34

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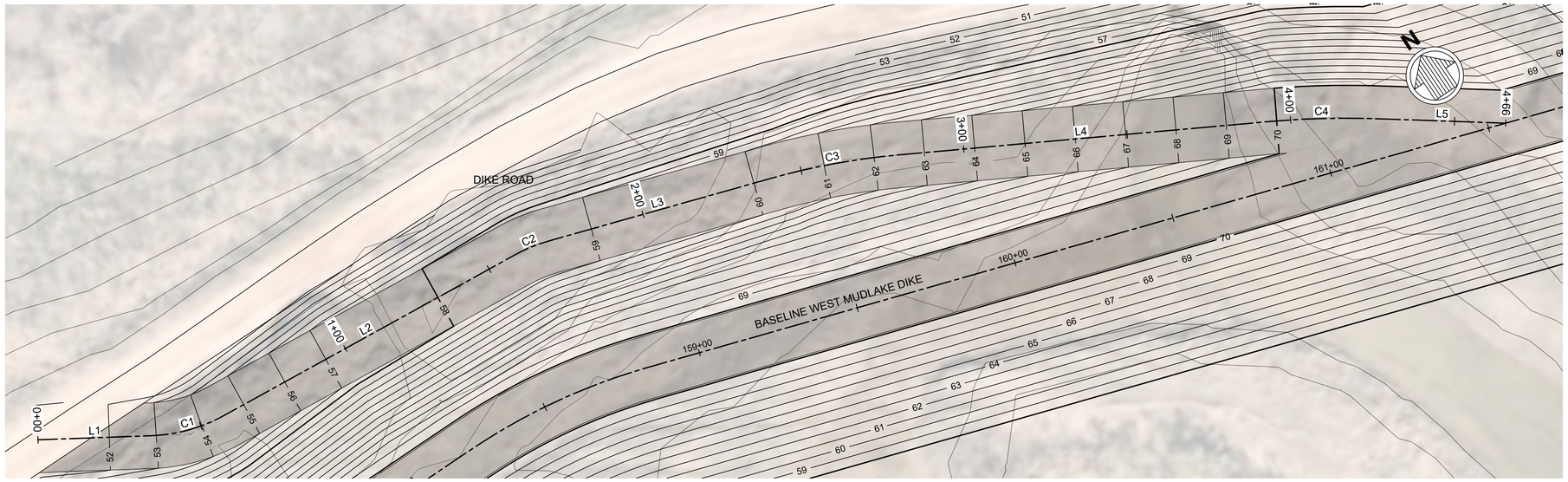


NOTES

1. FOR GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE SHEET G-002.
2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.

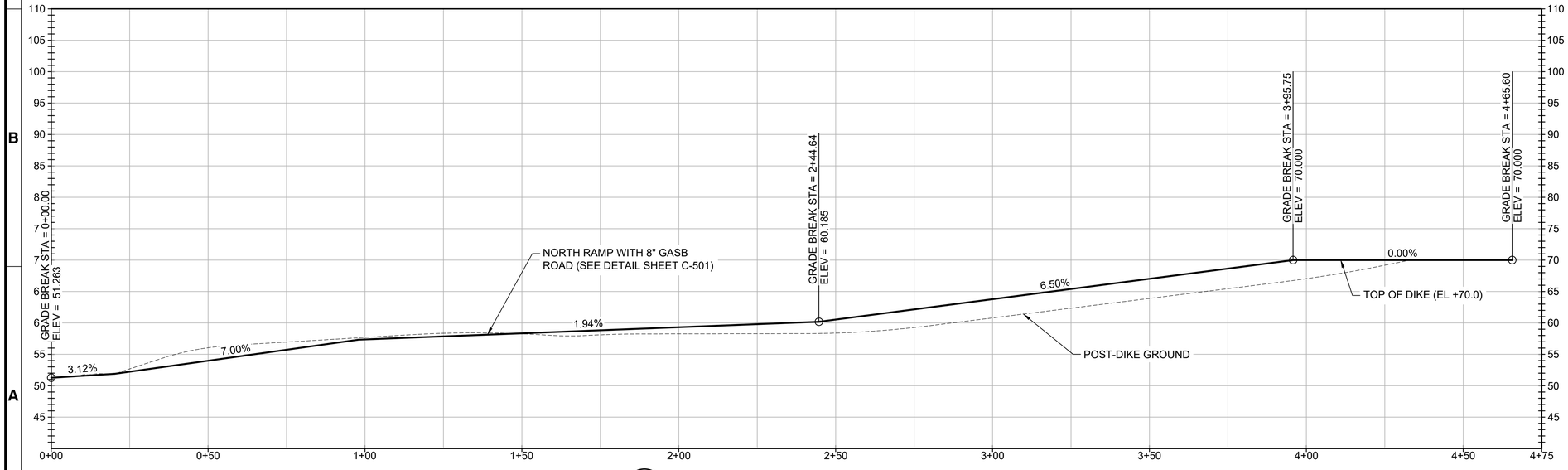
NORTH ACCESS RAMP - 1 BASELINE GEOMETRY TABLE

NUMBER	STATION	NORTHING	EASTING	BEARING	CHORD (FT)	R (FT)	Dc	L (FT)	T (FT)	DELTA
L1	0+00.00	263515.33	1801481.76	S58° 04' 55.28"E				34.42		
C1	0+34.42 0+46.34 0+57.83	263497.14 263490.83 263489.77	1801510.97 1801521.10 1801532.97	S71° 29' 46.98"E	23.199	50.00	0° 00' 00"	23.41	11.925	26° 49' 43"
L2	0+57.83	263489.77	1801532.97	S84° 54' 38.67"E				101.03		
C2	1+58.86 1+64.62 1+70.34	263480.81 263480.30 263478.49	1801633.60 1801639.35 1801644.82	S78° 19' 58.43"E	11.455	50.00	0° 00' 00"	11.48	5.766	13° 09' 20"
L3	1+70.34	263478.49	1801644.82	S71° 45' 18.19"E				69.79		

NORTH ACCESS RAMP - 1 BASELINE GEOMETRY TABLE

NUMBER	STATION	NORTHING	EASTING	BEARING	CHORD (FT)	R (FT)	Dc	L (FT)	T (FT)	DELTA
C3	2+40.13 2+60.13 2+80.01	263456.64 263450.38 263440.74	1801711.10 1801730.10 1801747.62	S66° 27' 41.80"E	39.829	215.86	26° 47' 10"	39.89	20.000	10° 35' 13"
L4	2+80.01	263440.74	1801747.62	S61° 10' 05.41"E				112.22		
C4	3+92.23 4+09.53 4+26.79	263386.62 263378.28 263368.12	1801845.92 1801861.08 1801875.08	S57° 36' 17.55"E	34.536	277.84	20° 44' 05"	34.56	17.302	7° 07' 36"
L5	4+26.79	263368.12	1801875.08	S54° 02' 29.70"E				38.81		

C1 / C-104 PLAN - NORTH ACCESS RAMP - 1
SCALE: 1" = 20'



A1 / C-201 PROFILE - NORTH ACCESS RAMP - 1
SCALE: 1" = 20'

SCALE: VERT 1"=10'

SCALE: HORZ 1"=20'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

PLAN & PROFILE - NORTH
ACCESS RAMPS - 1

Date: 2025-04-04
Rev.
M&N Project No. 212511-04
Designed by: PWK
Cad by: PGV
Dwn by: EDHR
Reviewed by: TJS
Drawing scale:
Drawing Scale:
Plot scale: 1:1 (D SHEET)
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

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ALABAMA PORT AUTHORITY
PORT OF MOBILE

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER W. MULLAK
Peter W Mullak
2025.04.04
SEAL 13:14:11-04'00'

Sheet Reference No.
C-201
INDEX: 12 OF 34

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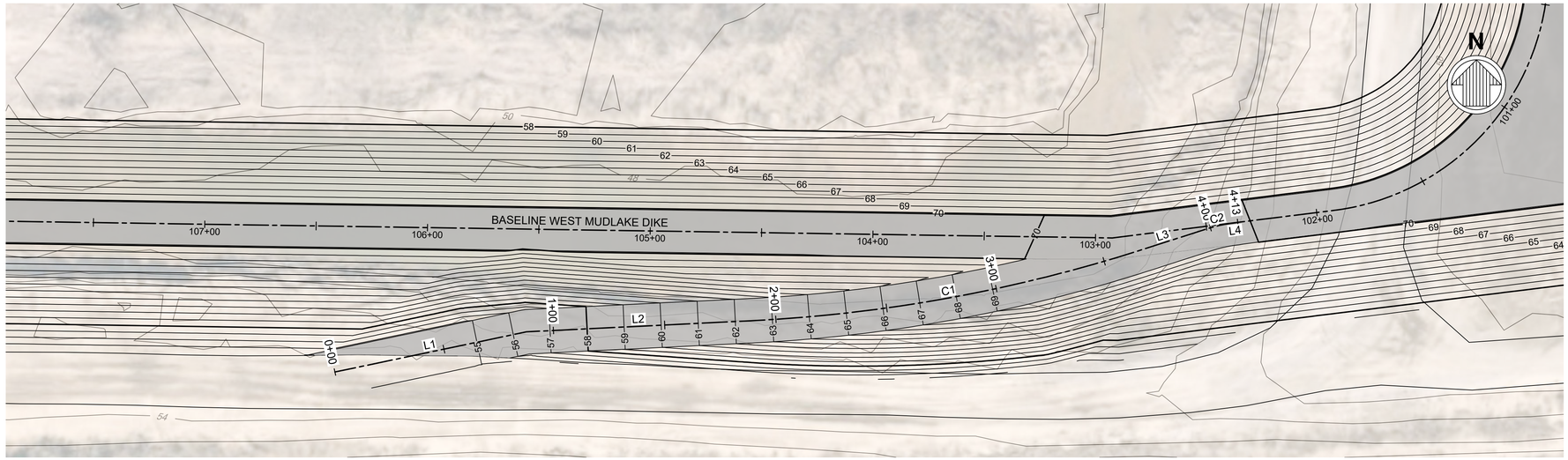
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



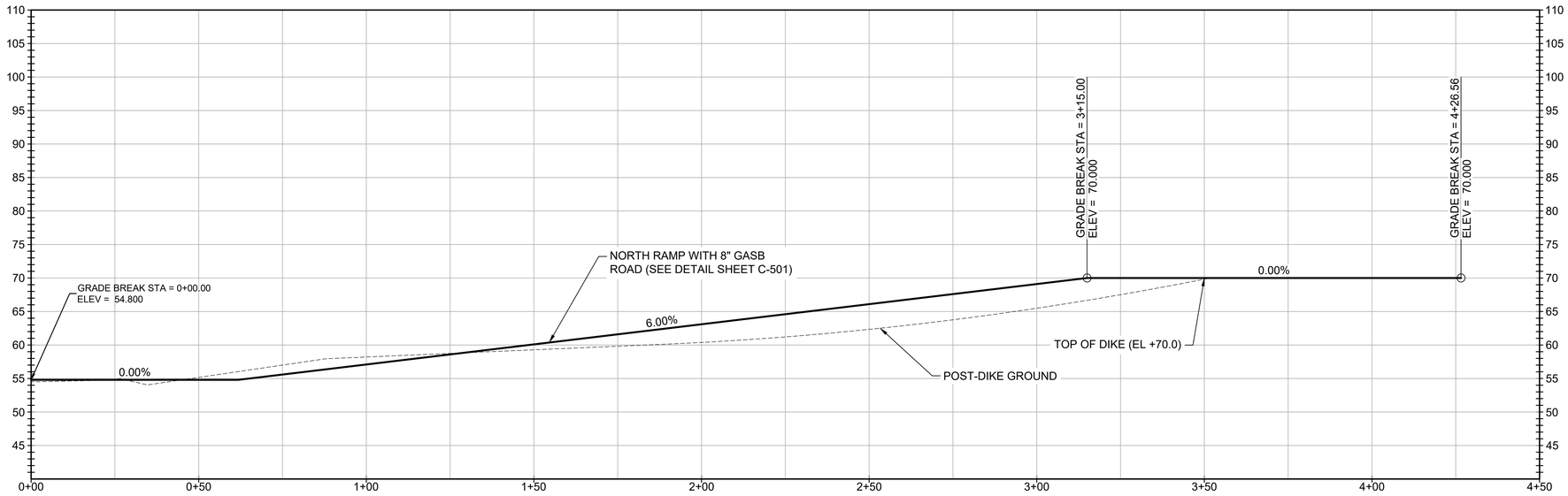
NOTES

1. FOR GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE SHEET G-002.
2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.

SOUTH ACCESS RAMP - 1 BASELINE GEOMETRY TABLE

NUMBER	STATION	NORTHING	EASTING	BEARING	CHORD (FT)	R (FT)	Dc	L (FT)	T (FT)	DELTA
L1	0+00.00	259962.70	1802007.89	N78° 08' 44.83"E				87.91		
L2	0+87.91	259980.76	1802093.92	N87° 10' 30.37"E				100.88		
C1	1+88.79 2+78.90 3+67.99	259985.73 259990.17 260017.73	1802194.68 1802284.69 1802370.48	N79° 40' 52.39"E	178.687	685.04	8° 22' 17"	179.20	90.113	14° 59' 16"
L3	3+67.99	260017.73	1802370.48	N72° 11' 14.41"E				30.15		
C2	3+98.14 4+03.83 4+09.49	260026.96 260028.70 260029.46	1802399.19 1802404.61 1802410.24	N77° 15' 29.93"E	11.334	64.11	102° 29' 50"	11.35	5.689	10° 08' 31"
L4	4+09.49	260029.46	1802410.24	N82° 19' 45.45"E				3.07		

C1 / C-104 PLAN - SOUTH ACCESS RAMP - 1
SCALE: 1" = 30'



A1 / C-202 PROFILE - SOUTH ACCESS RAMP - 1
SCALE: 1" = 20'

10' 0' 10' 20'
SCALE: VERT 1"=10'

20' 0' 20' 40'
SCALE: HORZ 1"=20'

30' 0' 30' 60'
SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

PLAN & PROFILE - SOUTH ACCESS RAMPS - 1

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ALABAMA PORT AUTHORITY
PORT OF MOBILE

Designed by: PWK
Drawn by: EDHR
Checked by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale: 1:1 (D SHEET)
Plot scale: 1:1 (D SHEET)
Rev:

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER W. MAKOTULAK
Peter A Makotulak
2025.04.04
SEAL 13:14:11-04'00'

Sheet Reference No.
C-202
INDEX: 13 OF 34

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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



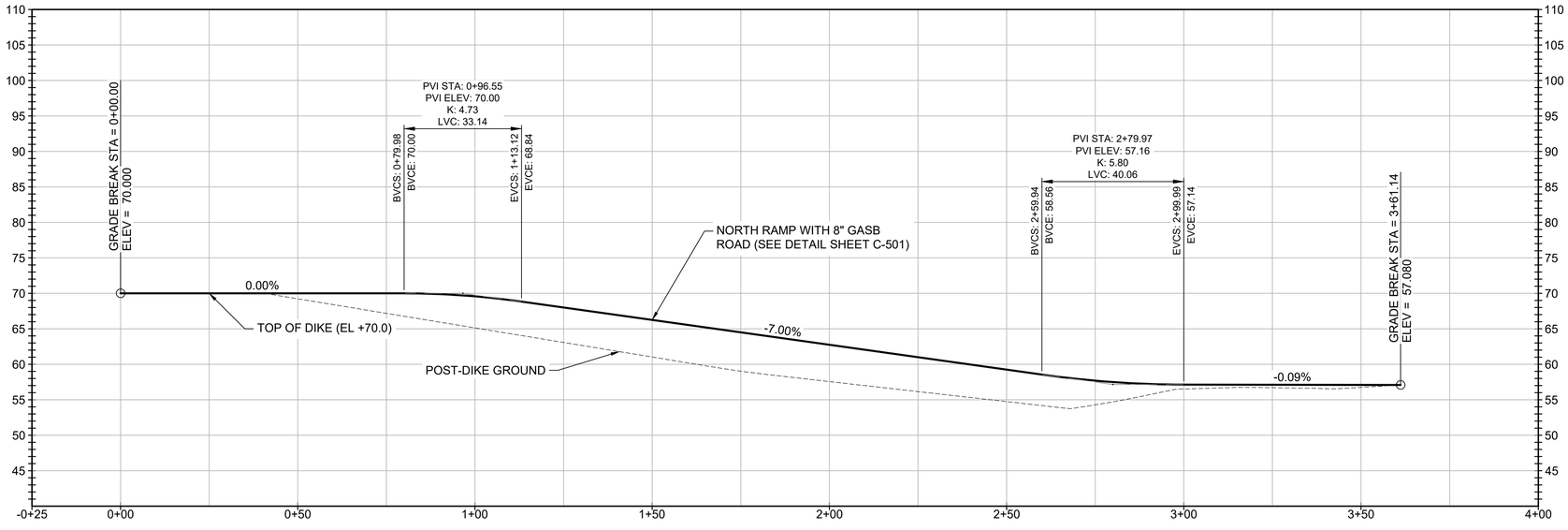
NOTES

1. FOR GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE SHEET G-002.
2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.

NORTH ACCESS RAMP - 2 BASELINE GEOMETRY TABLE

NUMBER	STATION	NORTHING	EASTING	BEARING	CHORD (FT)	R (FT)	Dc	L (FT)	T (FT)	DELTA
L1	0+00.00	263076.47	1802116.31	S04° 53' 50.38"E				167.05		
C1	1+67.05 1+75.11 1+83.15	262910.02 262902.00 262894.05	1802130.57 1802131.26 1802132.57	S07° 09' 08.12"E	16.094	204.52	28° 18' 04"	16.10	8.053	4° 30' 35"
L2	1+83.15	262894.05	1802132.57	S09° 24' 25.86"E				91.22		
C2	2+74.37 2+81.26 2+88.12	262804.06 262797.26 262790.37	1802147.48 1802148.61 1802148.48	S04° 09' 15.82"E	13.733	75.00	83° 37' 14"	13.75	6.895	10° 30' 20"
L3	2+88.12	262790.37	1802148.48	S01° 05' 54.23"W				73.02		

C1 / C-104 PLAN - NORTH ACCESS RAMP - 2
SCALE: 1" = 30'



A1 / C-203 PROFILE - NORTH ACCESS RAMP - 2
SCALE: 1" = 20'

SCALE: VERT 1"=10'

SCALE: HORZ 1"=20'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

PLAN & PROFILE - NORTH
ACCESS RAMPS - 2

Rev.
Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)
Designed by: PWK
Drawn by: EDHR
Cad by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

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ALABAMA PORT AUTHORITY
PORT OF MOBILE

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTULAK
Peter W Kotulak
2025.04.04
SEAL 13:14:12-04'00'

Sheet Reference No.
C-203
INDEX: 14 OF 34

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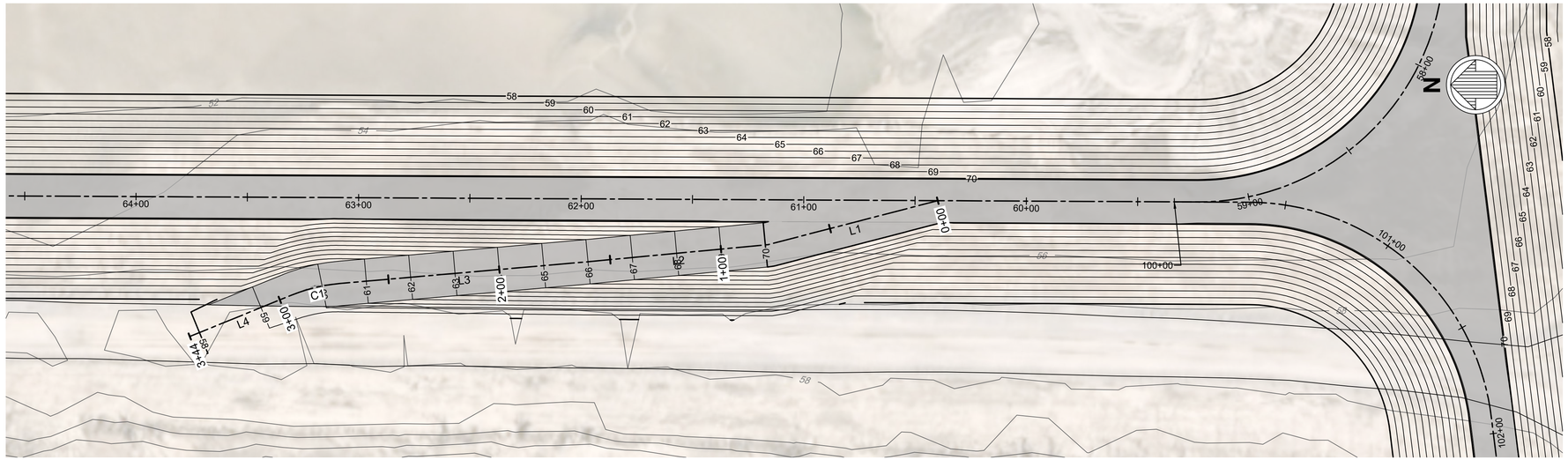
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



NOTES

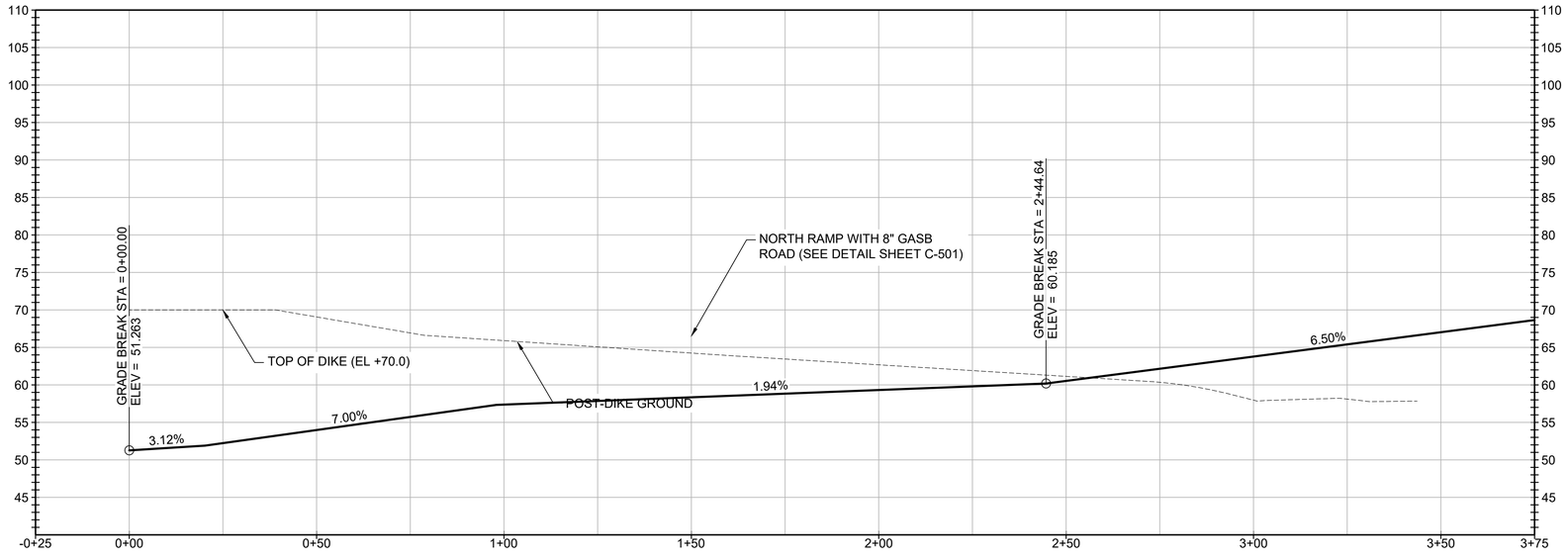
1. FOR GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, SEE SHEET G-002.
2. FOR LEGEND AND ABBREVIATIONS, SEE SHEET G-003.

SOUTH ACCESS RAMP - 2 BASELINE GEOMETRY TABLE

NUMBER	STATION	NORTHING	EASTING	BEARING	CHORD (FT)	R (FT)	Dc	L (FT)	T (FT)	DELTA
L1	0+00.00	260283.95	1802553.37	N14° 32' 17.64"W				78.72		
L2	0+78.72	260360.15	1802533.61	N05° 25' 34.17"W				81.40		
L3	1+60.12	260441.19	1802525.91	N05° 00' 44.01"W				111.86		
C1	2+71.98 2+83.27 2+94.40	260552.62 260563.87 260574.33	1802516.14 1802515.15 1802510.89	N13° 34' 38.22"W	22.340	75.00	83° 37' 14"	22.42	11.296	17° 07' 48"
L4	2+94.40	260574.33	1802510.89	N22° 08' 32.42"W				49.27		

C1 / C-104 PLAN - SOUTH ACCESS RAMP - 2

SCALE: 1" = 30'



A1 / C-204 PROFILE - SOUTH ACCESS RAMP - 2

SCALE: 1" = 20'

10' 0' 10' 20'
SCALE: VERT 1"=10'

20' 0' 20' 40'
SCALE: HORZ 1"=20'

30' 0' 30' 60'
SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

PLAN & PROFILE - SOUTH
ACCESS RAMPS - 2

Rev.

Date: 2025-04-04

M&N Project No. 212511-04

Drawing code:

Drawing Scale:

Plot scale: 1:1 (D SHEET)

Designed by: PWK

Drawn by: EDHR

Cad by: PGV

Reviewed by: TJS

Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

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ALABAMA PORT AUTHORITY
PORT OF MOBILE

ALABAMA LICENSED
No. 50467 PROFESSIONAL
ENGINEER
PETER W. KOWALIK
Peter Kowalik
2025.04.04
SEAL 13:14:13-04'00'

Sheet Reference No.
C-204
INDEX: 15 OF 34

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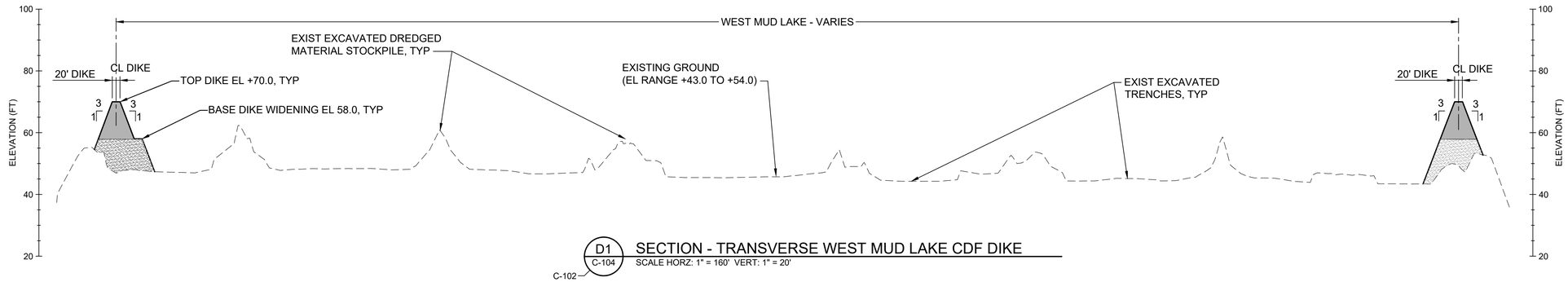
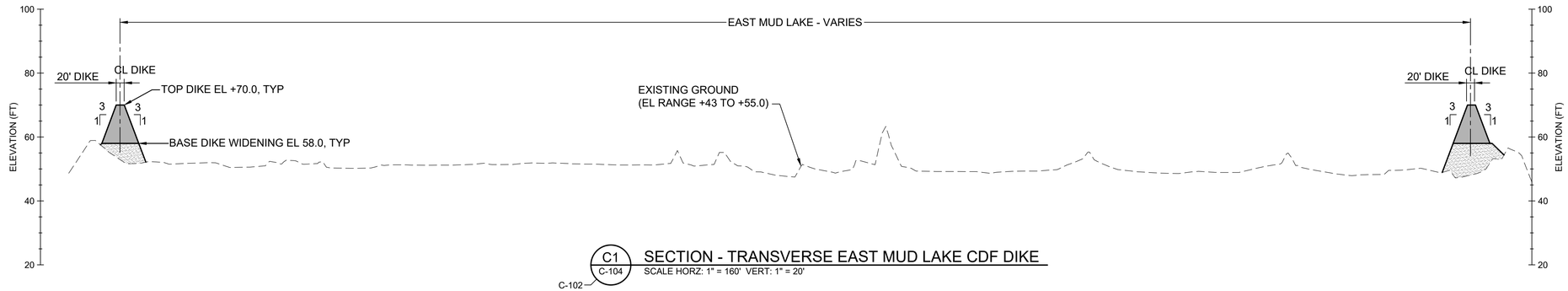
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



D1 / C-104 — SECTION - TRANSVERSE WEST MUD LAKE CDF DIKE

C-102

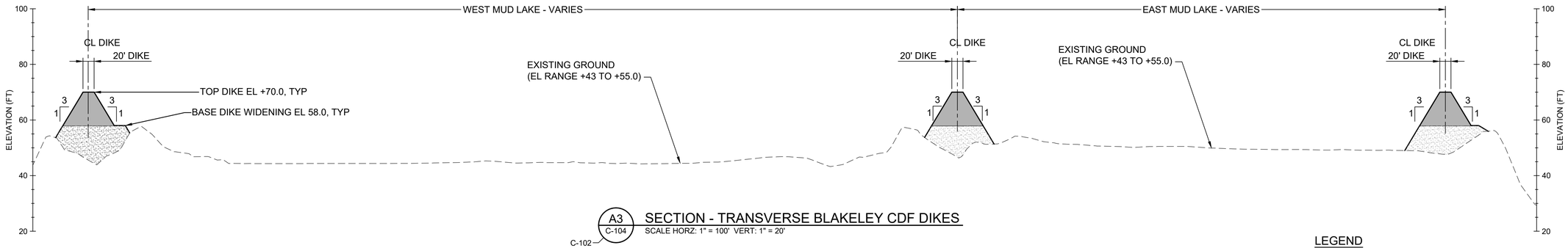
SCALE HORZ: 1" = 160' VERT: 1" = 20'



C1 / C-104 — SECTION - TRANSVERSE EAST MUD LAKE CDF DIKE

C-102

SCALE HORZ: 1" = 160' VERT: 1" = 20'



A3 / C-104 — SECTION - TRANSVERSE BLAKELEY CDF DIKES

C-102

SCALE HORZ: 1" = 100' VERT: 1" = 20'

LEGEND

- SAND FILL FROM OFFSITE
- OFFSITE BORROW

160' 0' 160' 320'

SCALE: 1"=160'

20' 0' 20' 40'

SCALE: 1"=20'

100' 0' 100' 200'

SCALE: 1"=100'

ISSUED FOR BID
ISSUED: 2025-04-04
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES DIKE RAISING PROJECT

SECTIONS - TYPICAL CDF

Designed by: PWK	Dwn by: EDIHR	Reviewed by: TJS	Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
	Ckd by: PGV		
Date: 2025-04-04	M&N Project No. 212511-04	Drawing code:	Drawing Scale: Plot scale: 1:1 (D SHEET)
Rev:			

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

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER WILLIAM KOTLAK

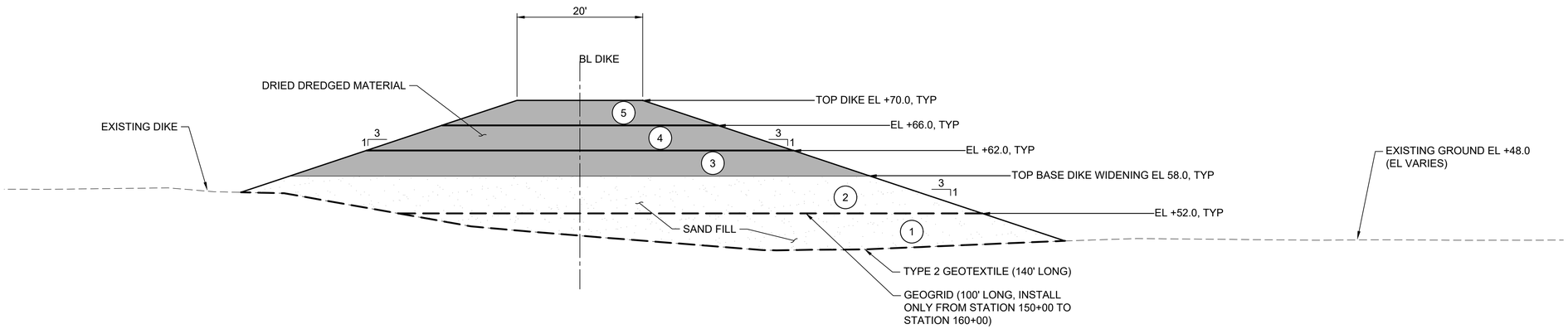
Peter W Kotlak
2025.04.04
SEAL 13:14:13-04'00'

Sheet Reference No.

C-301

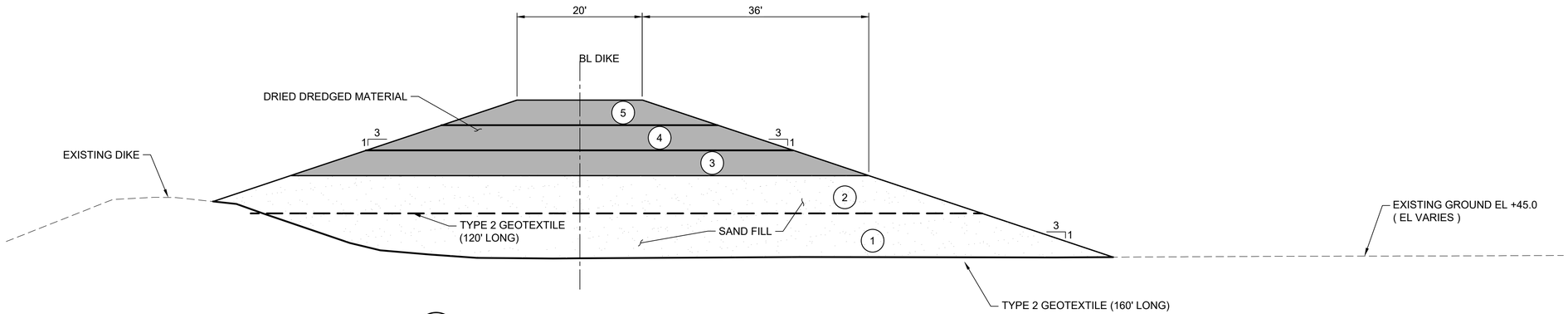
INDEX: 16 OF 34

File: \\mne.net\projects\BR\212511-04\20 CADD_Active_SheetSet Blakeley DMMA\212511-04-BLK-C-301 ; Plotted: 4/4/2025 1:29 PM by EDOMINGUEZ



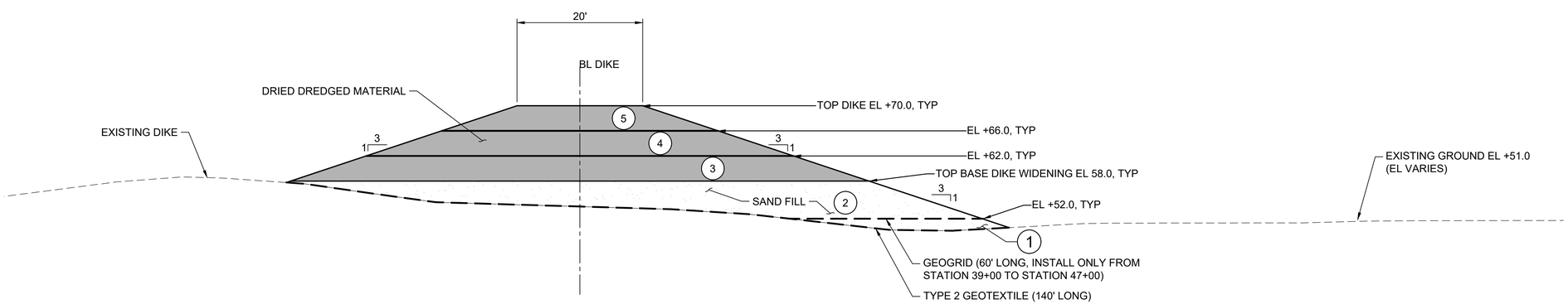
D1 / C-104 SECTION - WEST MUD LAKE TYPICAL DIKE - STA 100+00 TO STA 102+00 AND STA 150+00 TO STA 162+00

SCALE: 1" = 10'



C1 / C-104 SECTION - WEST MUD LAKE TYPICAL DIKE - STA 102+00 TO STA 150+00

SCALE: 1" = 10'



A1 / C-104 SECTION - EAST MUD LAKE TYPICAL DIKE - STA 0+00 TO 92+00

SCALE: 1" = 10'

NOTES

1. DIKE RAISING USING EITHER DRIED DREDGED MATERIAL OR OFFSITE BORROW SHALL BE CONSTRUCTED IN STAGES WITH 4' NOMINAL HEIGHT.

LEGEND

- SAND FILL FROM OFFSITE
- OFFSITE BORROW
- (1) DIKE FILL STAGE

10' 0' 10' 20'

SCALE: 1"=10'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - TYPICAL DIKE

Designed by: PWK	Reviewed by: TJS
Drawn by: ED/HR	Ckd by: PGV
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL	Drawing code:
Date: 2025-04-04	Drawing Scale:
M&N Project No. 212511-04	Plot scale: 1:1 (D SHEET)
Rev.	

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM
moffatt & nichol

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

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 50467
PETER WILLIAM KOTULAK
Peter W Kotulak
2025.04.04
SEAL 13:14:14-04'00'

Sheet Reference No.
C-302
INDEX: 17 OF 34

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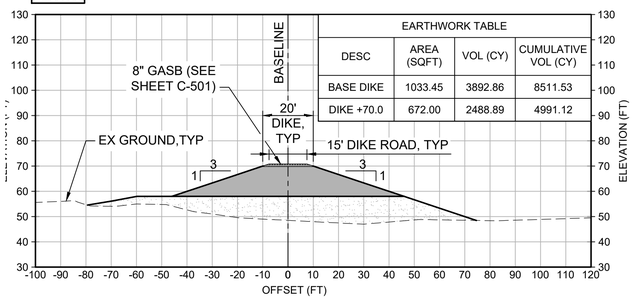
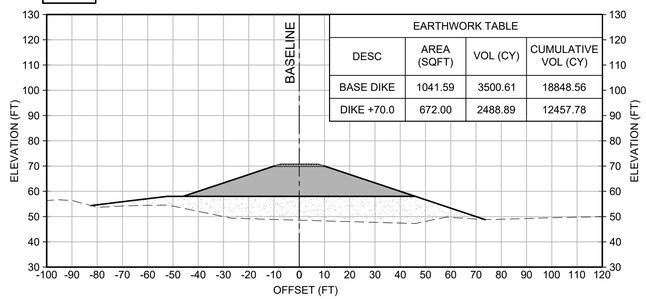
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

2+00.00



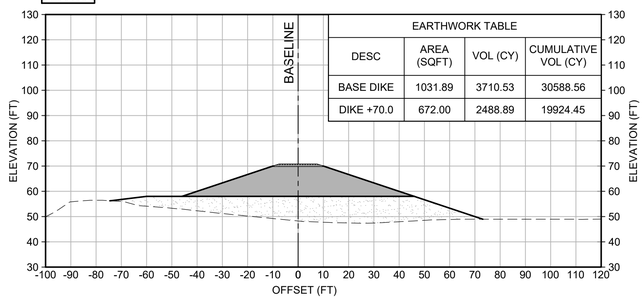
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1033.45	3892.86	8511.53
DIKE +70.0	672.00	2488.89	4991.12

5+00.00



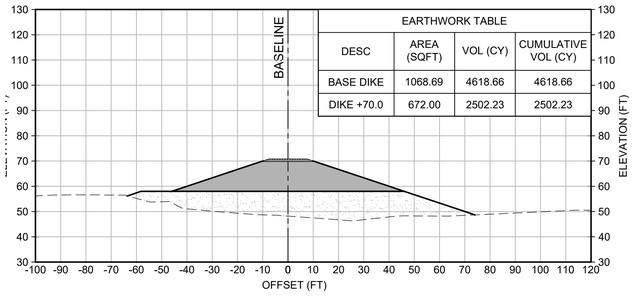
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1041.59	3500.61	18848.56
DIKE +70.0	672.00	2488.89	12457.78

8+00.00



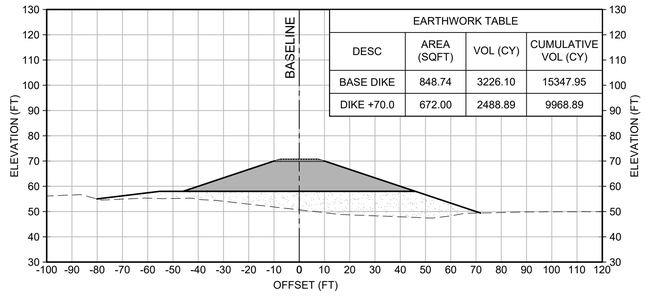
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1031.89	3710.53	30588.56
DIKE +70.0	672.00	2488.89	19924.45

1+00.00



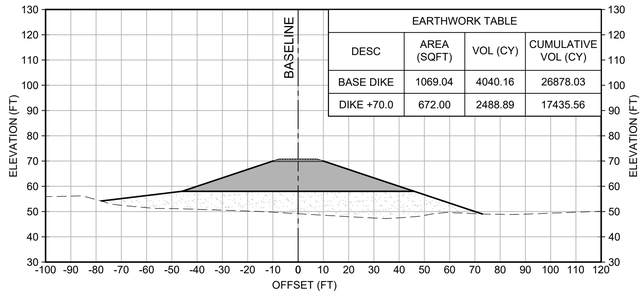
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1068.69	4618.66	4618.66
DIKE +70.0	672.00	2502.23	2502.23

4+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	848.74	3226.10	15347.95
DIKE +70.0	672.00	2488.89	9968.89

7+00.00



EARTHWORK TABLE			
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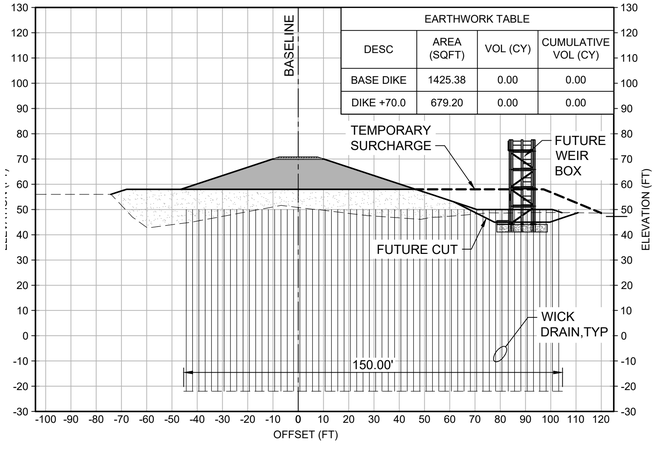
BASE DIKE	1069.04	4040.16	26878.03
DIKE +70.0	672.00	2488.89	17435.56

0+00.00



EARTHWORK TABLE			
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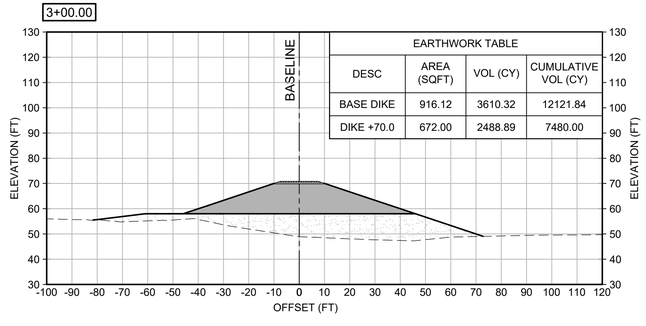
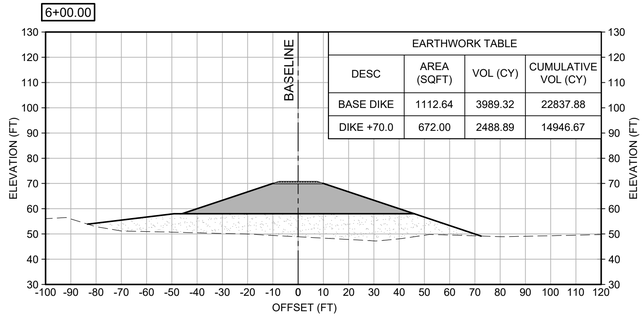
BASE DIKE	1425.38	0.00	0.00
DIKE +70.0	679.20	0.00	0.00

3+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	916.12	3610.32	12121.84
DIKE +70.0	672.00	2488.89	7480.00

6+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1112.64	3989.32	22837.88
DIKE +70.0	672.00	2488.89	14946.67

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES DIKE RAISING PROJECT

SECTIONS - EAST MUD LAKE DIKE (1 OF 9)

Designed by: PWK
Drawn by: EDHR
Ckd by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)
Rev.

11 N. WATER ST., SUITE 20220
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moffatt & nichol

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

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 50467 PETER WILLIAM KOTULAK

Peter M Kotulak
2025.04.04
SEAL 13:14:15-04'00'

Sheet Reference No.
C-310
INDEX: 18 OF 34

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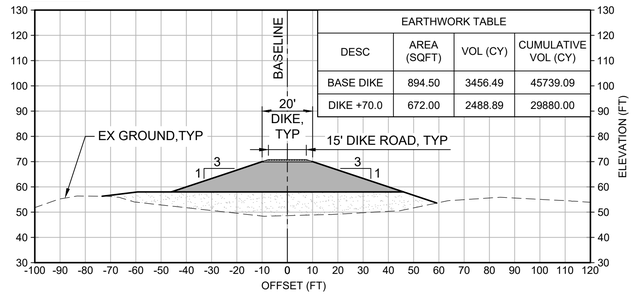
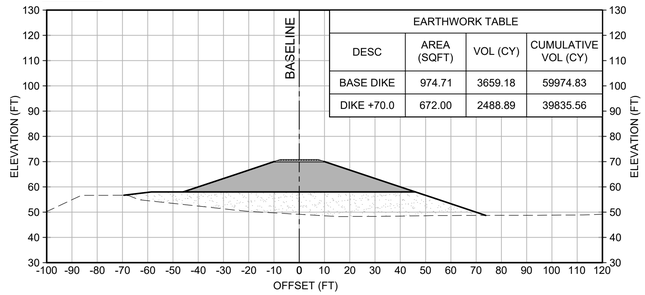


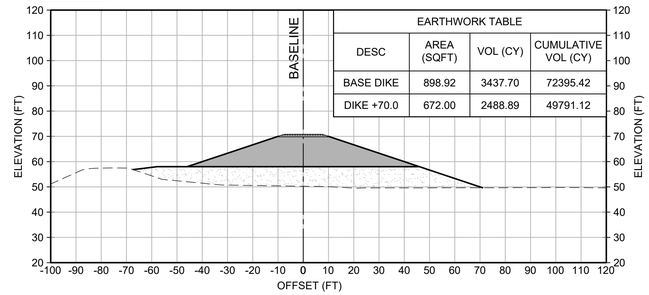
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	894.50	3456.49	45739.09
DIKE +70.0	672.00	2488.89	29880.00

16+00.00



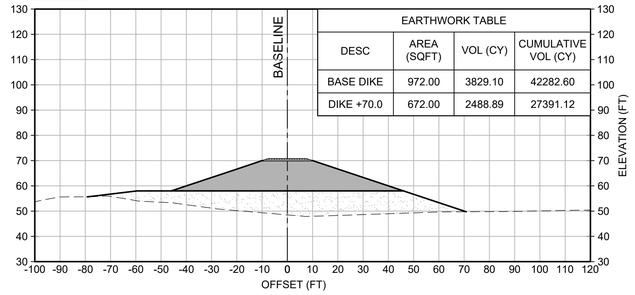
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	974.71	3659.18	59974.83
DIKE +70.0	672.00	2488.89	39835.56

20+00.00



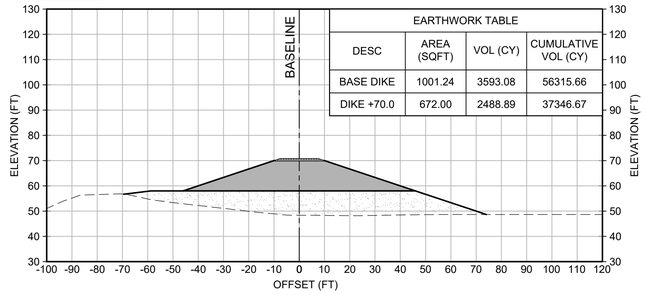
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	898.92	3437.70	72395.42
DIKE +70.0	672.00	2488.89	49791.12

11+00.00



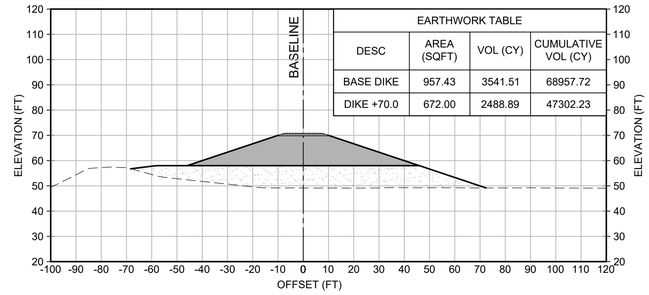
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	972.00	3829.10	42282.60
DIKE +70.0	672.00	2488.89	27391.12

15+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1001.24	3593.08	56315.66
DIKE +70.0	672.00	2488.89	37346.67

19+00.00



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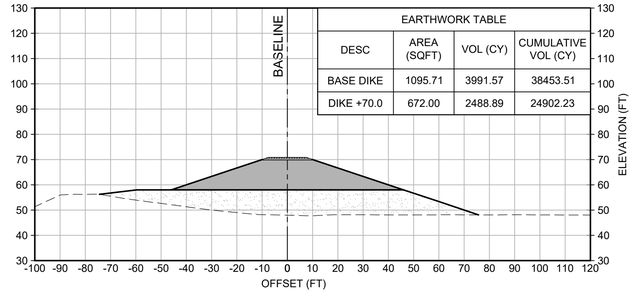
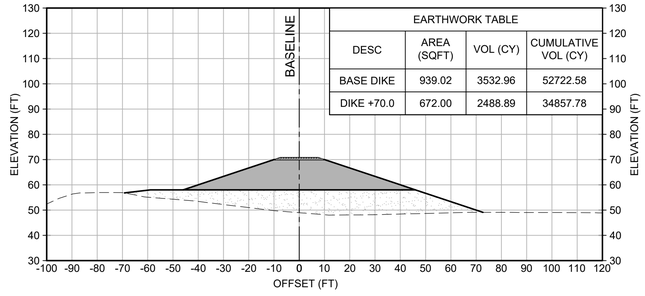
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	957.43	3541.51	68957.72
DIKE +70.0	672.00	2488.89	47302.23

10+00.00



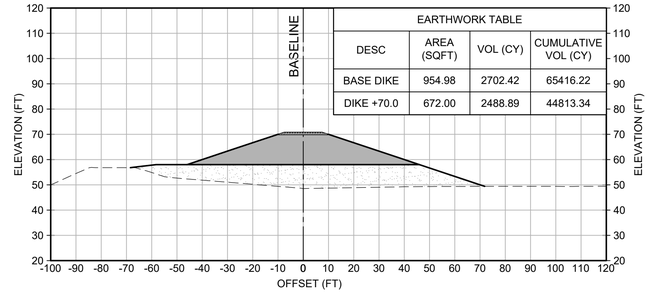
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1095.71	3991.57	38453.51
DIKE +70.0	672.00	2488.89	24902.23

14+00.00



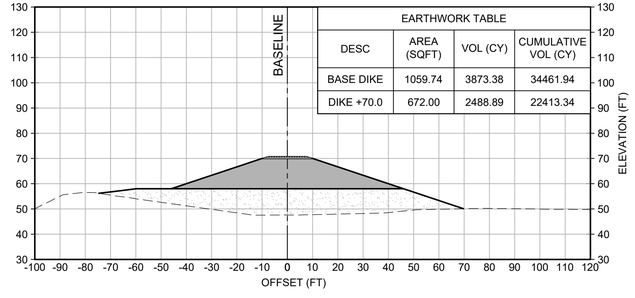
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	939.02	3532.96	52722.58
DIKE +70.0	672.00	2488.89	34857.78

18+00.00



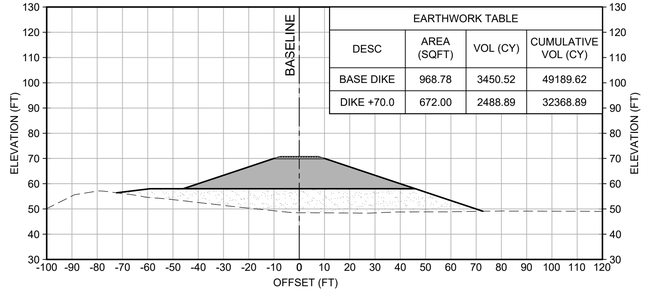
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	954.98	2702.42	65416.22
DIKE +70.0	672.00	2488.89	44813.34

9+00.00



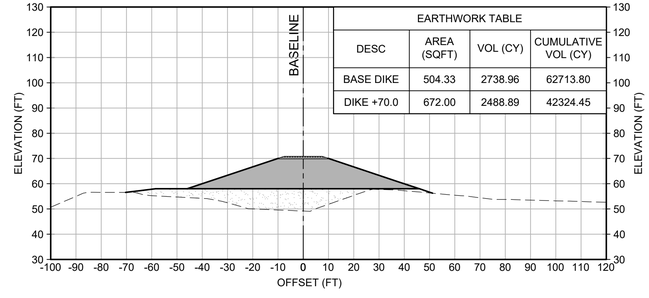
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1059.74	3873.38	34461.94
DIKE +70.0	672.00	2488.89	22413.34

13+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	968.78	3450.52	49189.62
DIKE +70.0	672.00	2488.89	32368.89

17+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	504.33	2738.96	62713.80
DIKE +70.0	672.00	2488.89	42324.45

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - EAST MUD LAKE DIKE
(2 OF 9)

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM

moffatt & nichol

250 N. WATER STREET
MOBILE, AL 36602

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Designed by:	PWK
Drawn by:	ED/HR
Ckd by:	PGV
Reviewed by:	TJS
Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL
Date:	2025-04-04
M&N Project No.	212511-04
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER W. MAKOTULAK

Peter M Makotulak
2025.04.04
SEAL 13:14:15-04'00'

Sheet
Reference No.
C-311
INDEX: 19 OF 34

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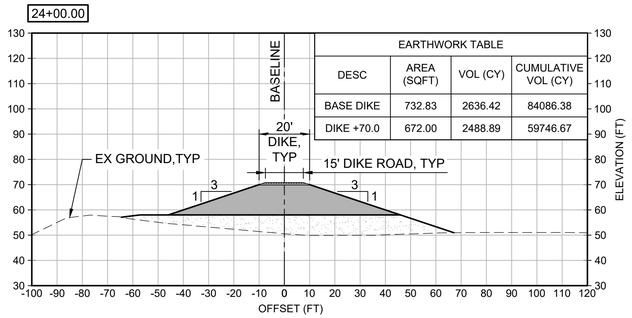
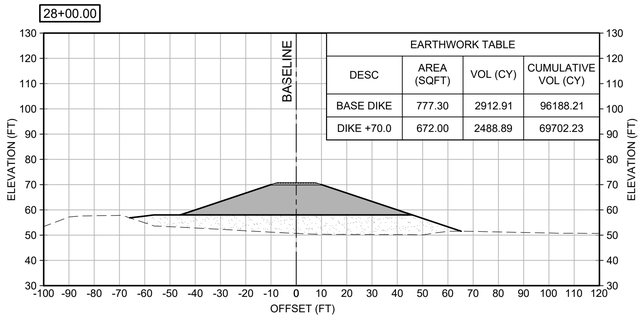
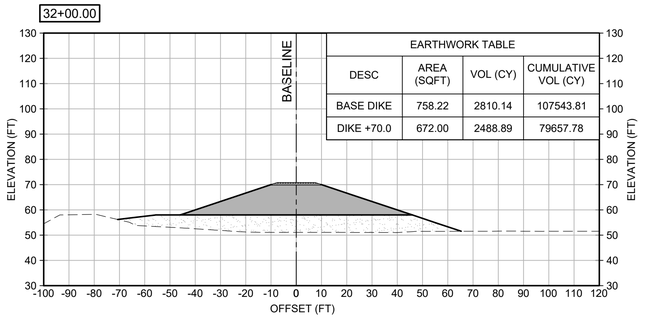
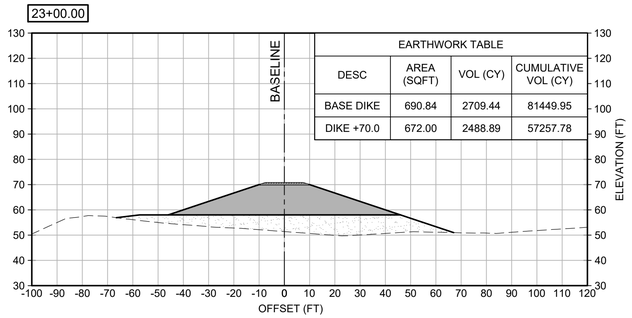
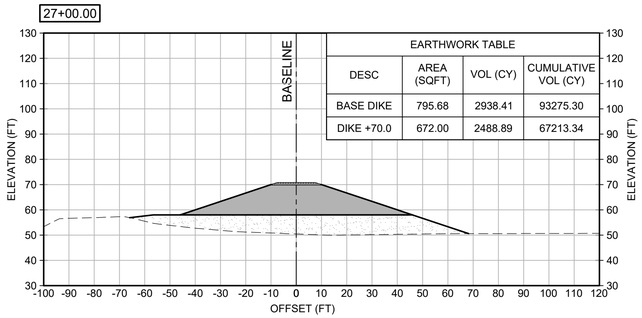
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

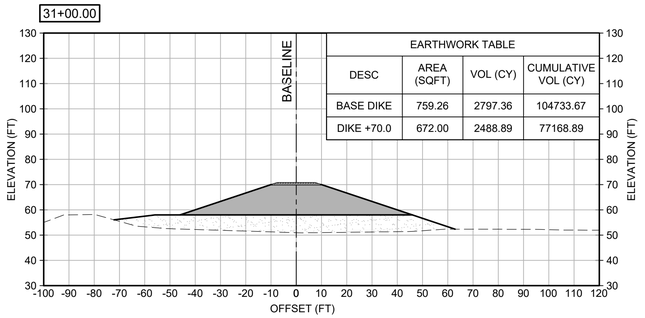


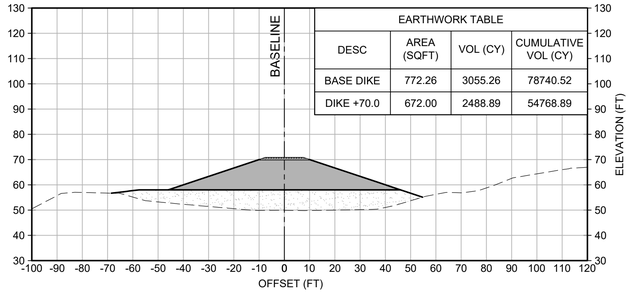


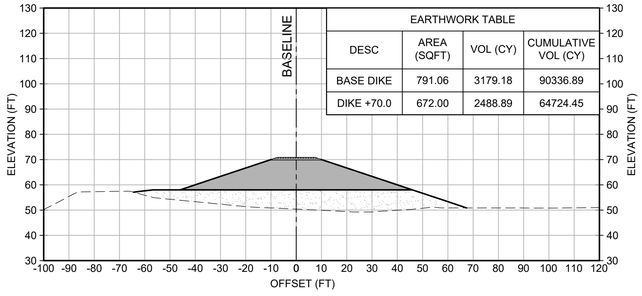


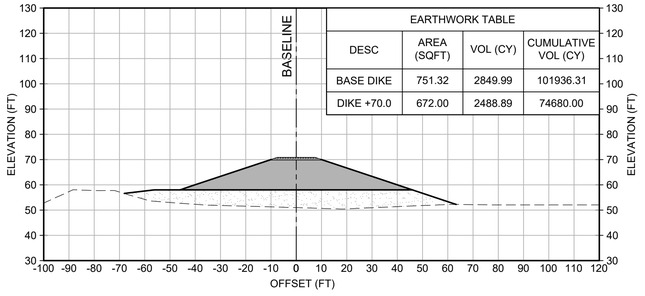


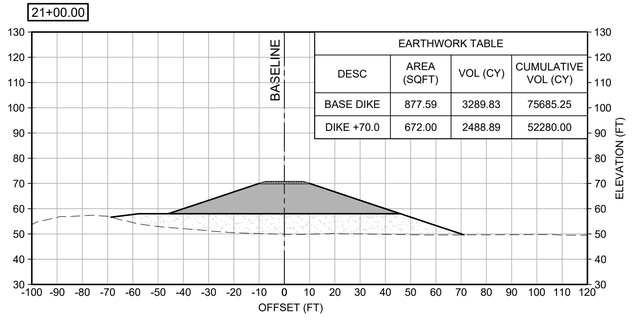


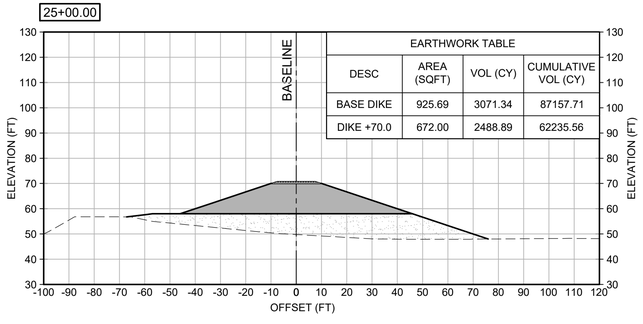


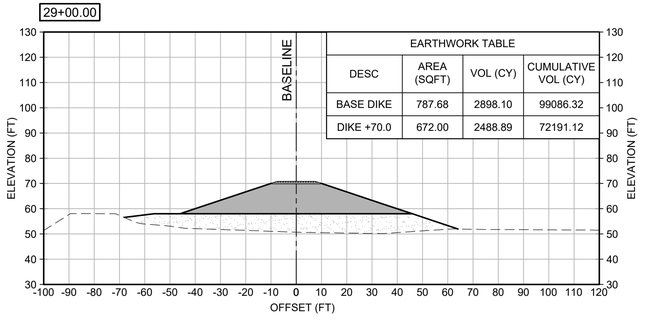












LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - EAST MUD LAKE DIKE
(3 OF 9)

Designed by: PWK	Rev.
Dwn by: ED/HR	Date: 2025-04-04
Ckd by: PGV	M&N Project No. 212511-04
Reviewed by: TJS	Drawing code:
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL	Drawing Scale: Plot scale: 1:1 (D SHEET)

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM
moffatt & nichol

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

ALABAMA LICENSED
No. 50467 PROFESSIONAL
PETER W. KOTULAK ENGINEER
Peter W Kotulak
2025.04.04
SEAL 13:14:16-04'00'

Sheet Reference No.
C-312
INDEX: 20 OF 34

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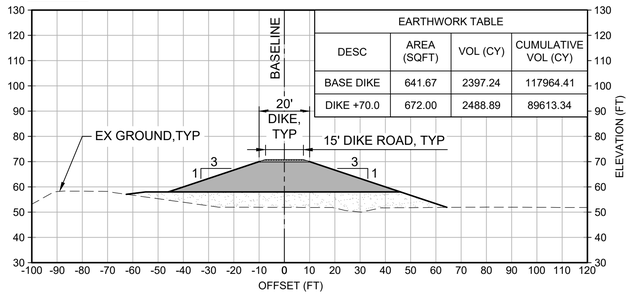
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



EARTHWORK TABLE			
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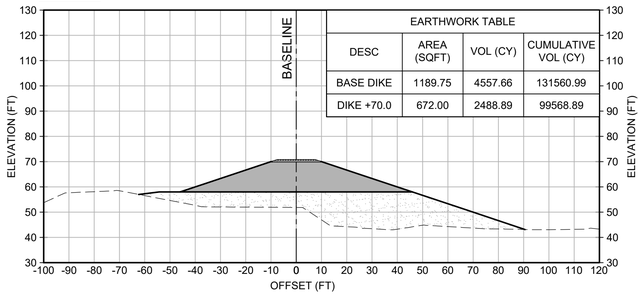
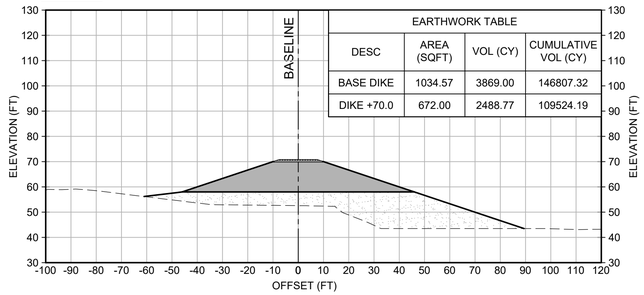
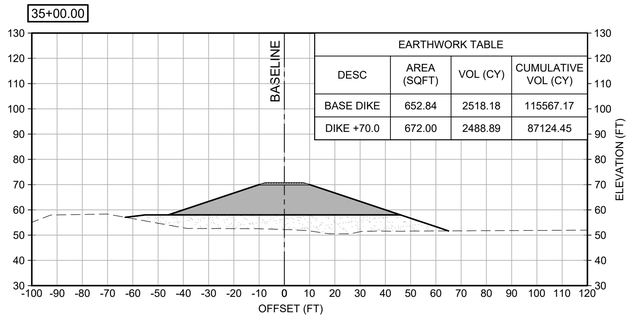
BASE DIKE	641.67	2397.24	117964.41
DIKE +70.0	672.00	2488.89	89613.34



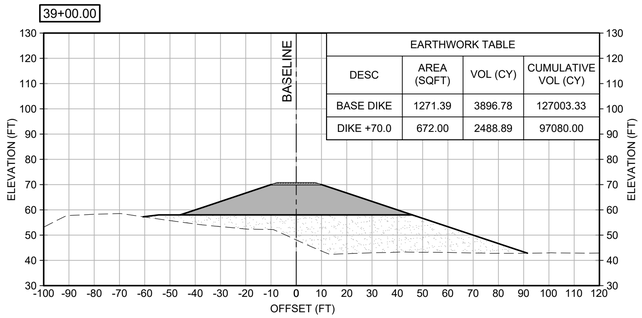
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1189.75	4557.66	131560.99
DIKE +70.0	672.00	2488.89	99568.89



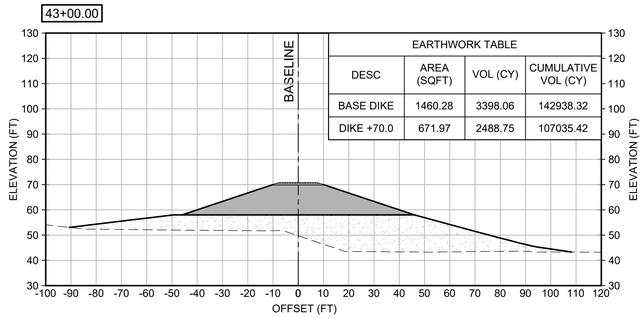
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1034.57	3869.00	146807.32
DIKE +70.0	672.00	2488.77	109524.19



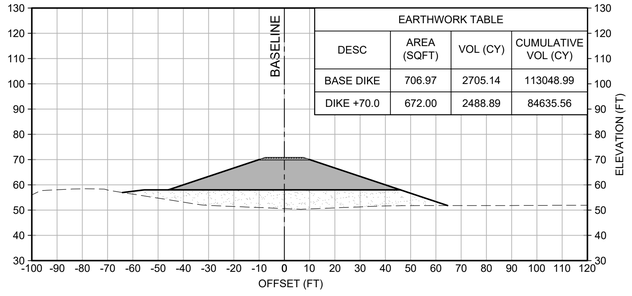
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	652.84	2518.18	115567.17
DIKE +70.0	672.00	2488.89	87124.45



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1271.39	3896.78	127003.33
DIKE +70.0	672.00	2488.89	97080.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1460.28	3398.06	142938.32
DIKE +70.0	671.97	2488.75	107035.42



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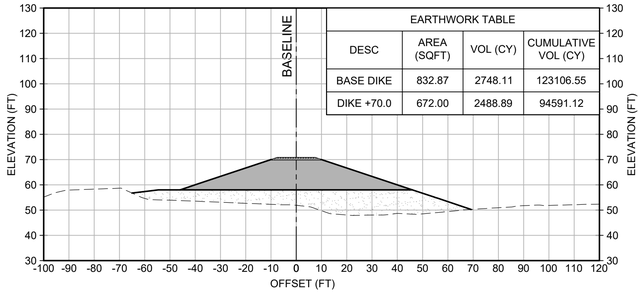
BASE DIKE	706.97	2705.14	113048.99
DIKE +70.0	672.00	2488.89	84635.56



EARTHWORK TABLE			
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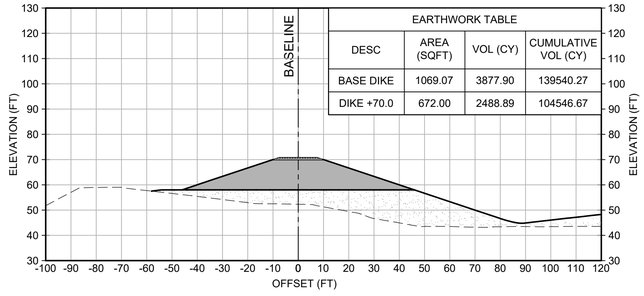
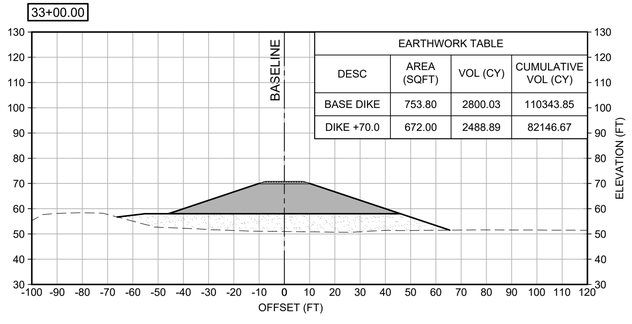
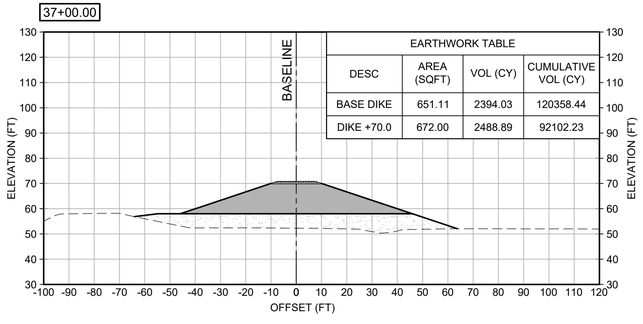
BASE DIKE	832.87	2748.11	123106.55
DIKE +70.0	672.00	2488.89	94591.12



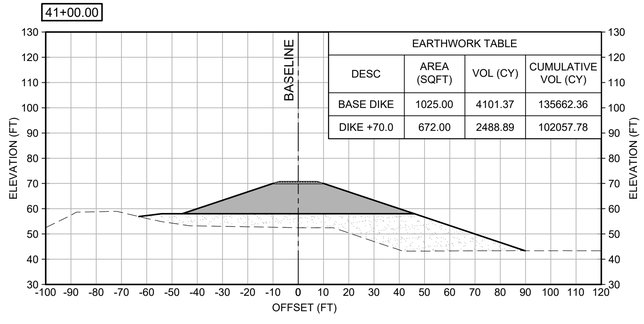
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1069.07	3877.90	139540.27
DIKE +70.0	672.00	2488.89	104546.67



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	753.80	2800.03	110343.85
DIKE +70.0	672.00	2488.89	82146.67



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	651.11	2394.03	120358.44
DIKE +70.0	672.00	2488.89	92102.23



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1025.00	4101.37	135662.36
DIKE +70.0	672.00	2488.89	102057.78

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - EAST MUD LAKE DIKE
(4 OF 9)

Designed by: PWK
Dwn by: ED/HR
Ckd by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME
MOFFATT & NICHOL
Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM
moffatt & nichol

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

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER W. KOTULAK

Peter W Kotulak
2025.04.04
SEAL 13:14:17-04'00'

Sheet Reference No.
C-313
INDEX: 21 OF 34

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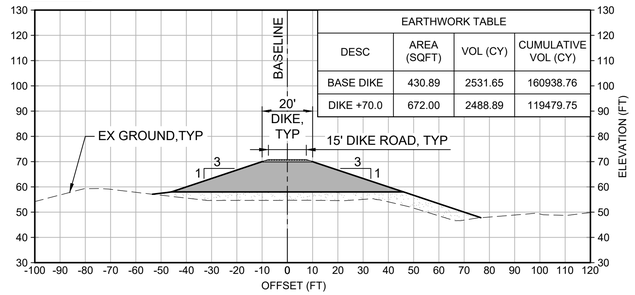
48+00.00



EARTHWORK TABLE			
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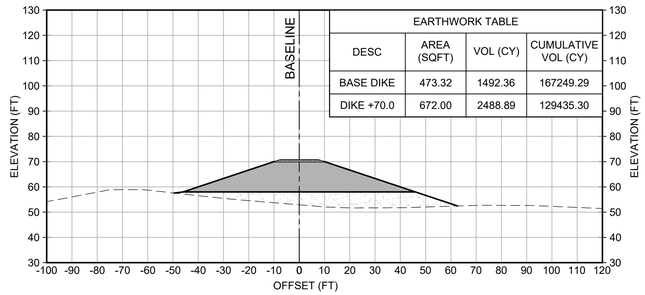
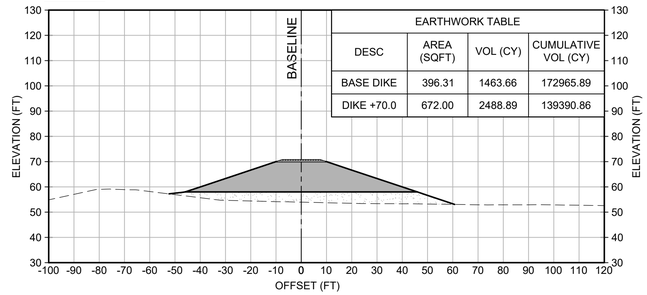
BASE DIKE	430.89	2531.65	160938.76
DIKE +70.0	672.00	2488.89	119479.75

52+00.00



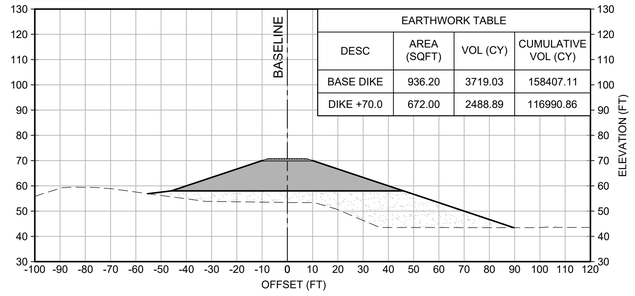
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	473.32	1492.36	167249.29
DIKE +70.0	672.00	2488.89	129435.30

56+00.00



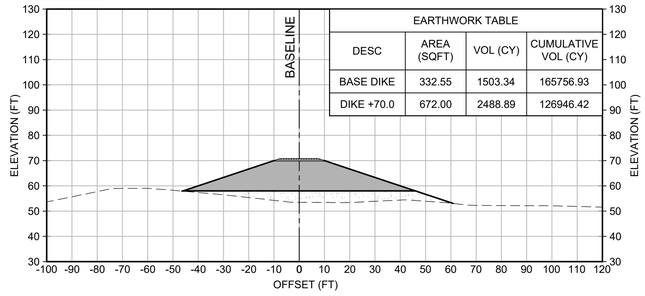
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	396.31	1463.66	172965.89
DIKE +70.0	672.00	2488.89	139390.86

47+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	936.20	3719.03	158407.11
DIKE +70.0	672.00	2488.89	116990.86

51+00.00



EARTHWORK TABLE			
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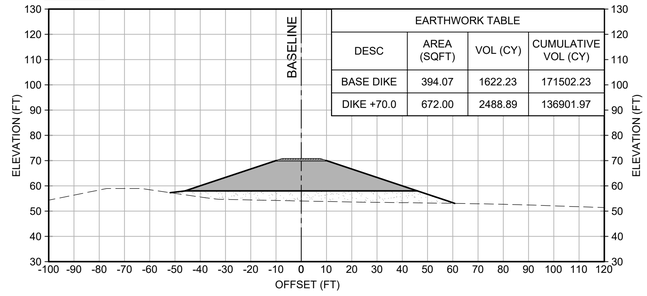
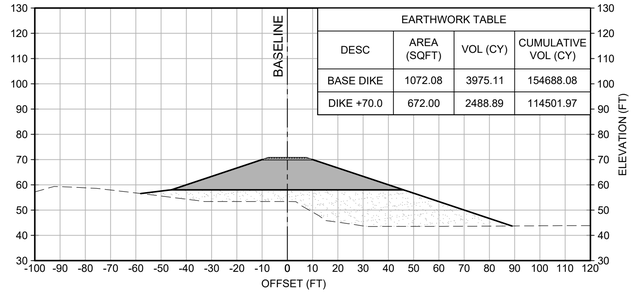
BASE DIKE	332.55	1503.34	165756.93
DIKE +70.0	672.00	2488.89	126946.42

55+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	394.07	1622.23	171502.23
DIKE +70.0	672.00	2488.89	136901.97

46+00.00



EARTHWORK TABLE			
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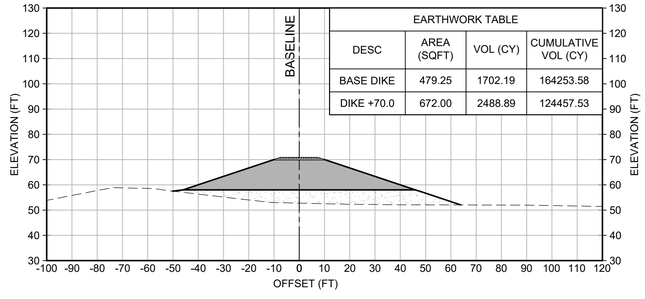
BASE DIKE	1072.08	3975.11	154688.08
DIKE +70.0	672.00	2488.89	114501.97

50+00.00



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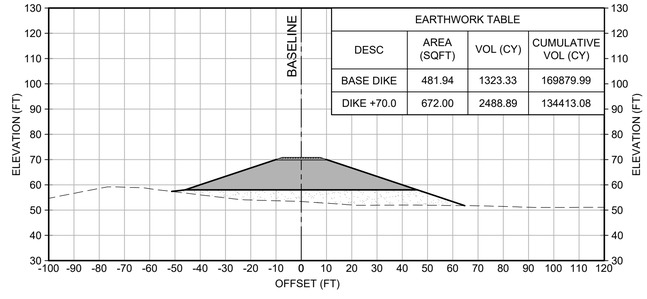
BASE DIKE	479.25	1702.19	164253.58
DIKE +70.0	672.00	2488.89	124457.53

54+00.00



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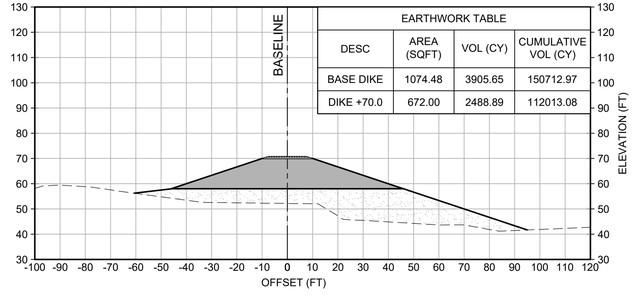
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	481.94	1323.33	169879.99
DIKE +70.0	672.00	2488.89	134413.08

45+00.00



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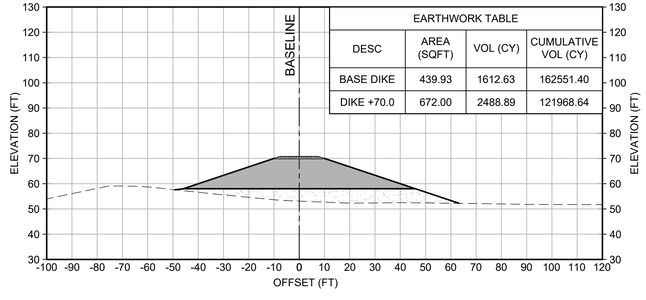
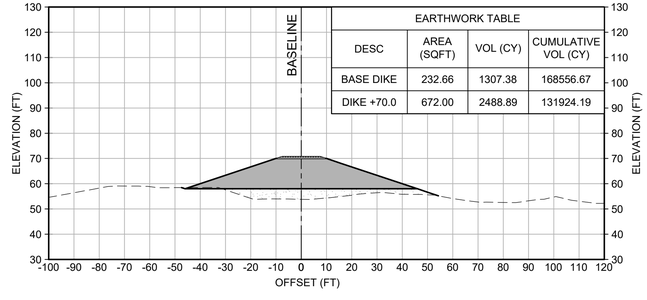
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1074.48	3905.65	150712.97
DIKE +70.0	672.00	2488.89	112013.08

49+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	439.93	1612.63	162551.40
DIKE +70.0	672.00	2488.89	121968.64

53+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	232.66	1307.38	168556.67
DIKE +70.0	672.00	2488.89	131924.19

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - EAST MUD LAKE DIKE
(5 OF 9)

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM

moffatt & nichol

250 N. WATER STREET
MOBILE, AL 36602

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Designed by: PWK	Reviewed by: TJS	Date: 2025-04-04	Rev.
Dwn by: ED/HR	Ckd by: PGV	M&N Project No. 212511-04	
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL		Drawing code:	
		Drawing Scale: Plot scale: 1:1 (D SHEET)	

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER W. KOTULAK

Peter W. Kotulak
2025.04.04
SEAL 13:14:17-04'00'

Sheet Reference No.

C-314

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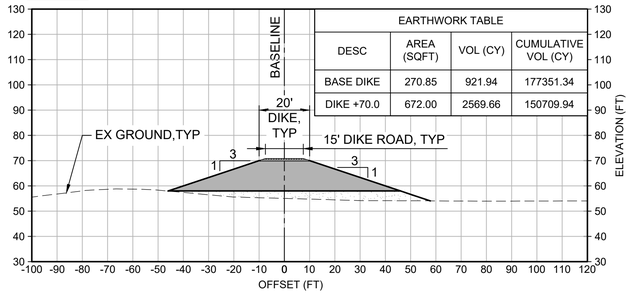
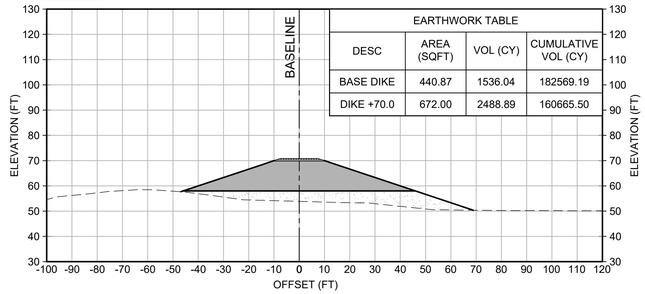
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

60+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	270.85	921.94	177351.34
DIKE +70.0	672.00	2569.66	150709.94

64+00.00



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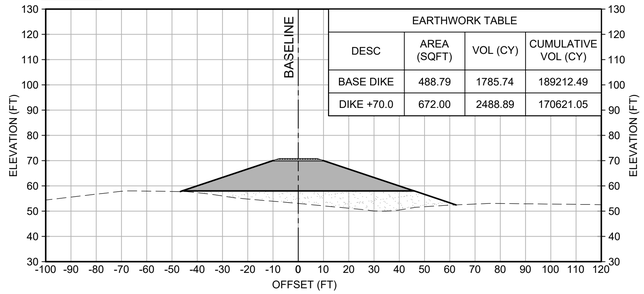
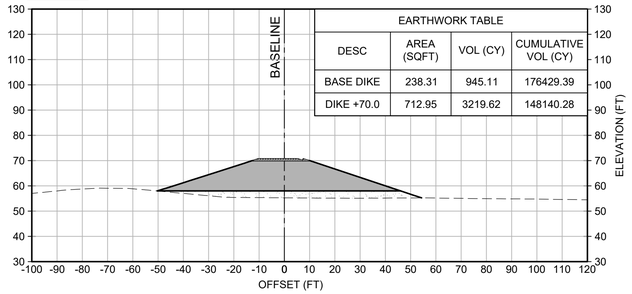
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	440.87	1536.04	182569.19
DIKE +70.0	672.00	2488.89	160665.50

68+00.00



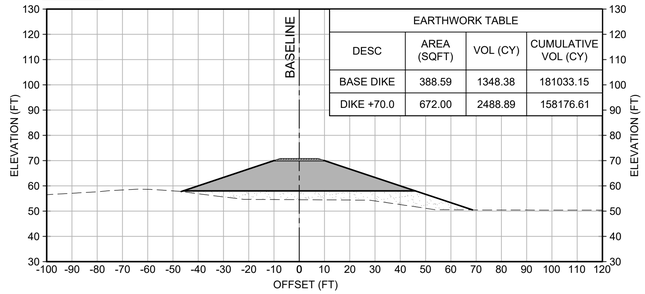
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	488.79	1785.74	189212.49
DIKE +70.0	672.00	2488.89	170621.05

59+00.00



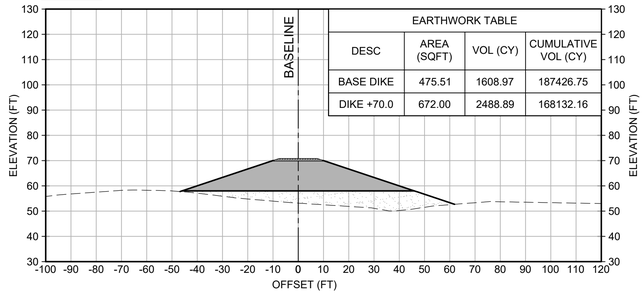
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	238.31	945.11	176429.39
DIKE +70.0	712.95	3219.62	148140.28

63+00.00



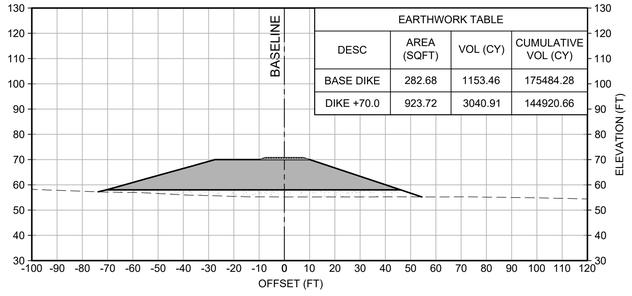
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	388.59	1348.38	181033.15
DIKE +70.0	672.00	2488.89	158176.61

67+00.00



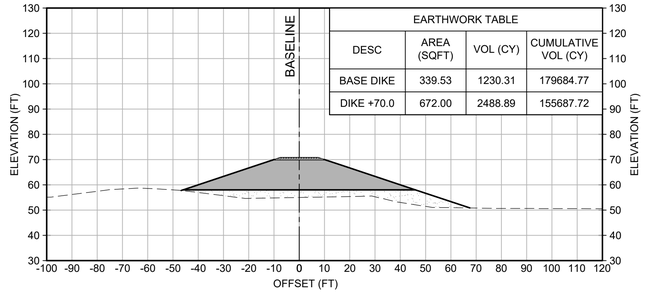
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	475.51	1608.97	187426.75
DIKE +70.0	672.00	2488.89	168132.16

58+00.00



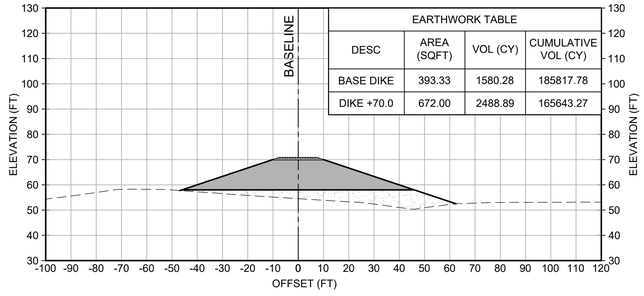
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	282.68	1153.46	175484.28
DIKE +70.0	923.72	3040.91	144920.66

62+00.00



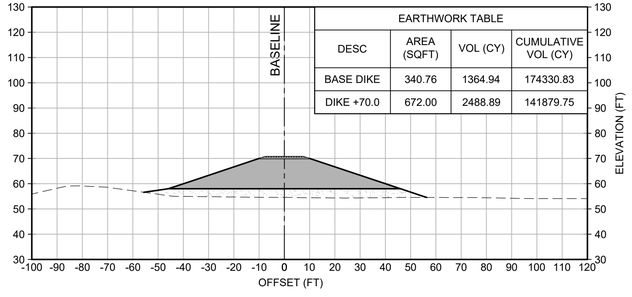
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	339.53	1230.31	179684.77
DIKE +70.0	672.00	2488.89	155687.72

66+00.00



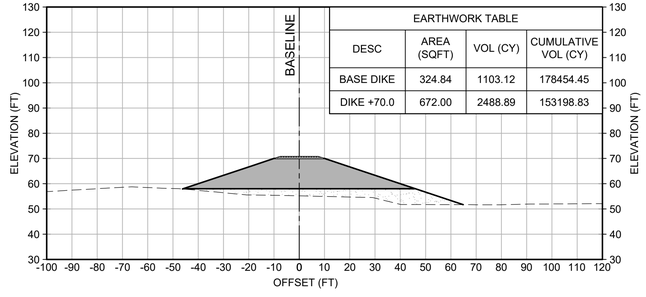
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	393.33	1580.28	185817.78
DIKE +70.0	672.00	2488.89	165643.27

57+00.00



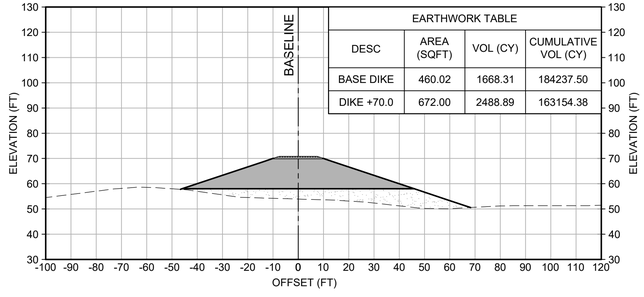
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	340.76	1364.94	174330.83
DIKE +70.0	672.00	2488.89	141879.75

61+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	324.84	1103.12	178454.45
DIKE +70.0	672.00	2488.89	153198.83

65+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	460.02	1668.31	184237.50
DIKE +70.0	672.00	2488.89	163154.38

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - EAST MUD LAKE DIKE
(6 OF 9)

Designed by: PWK	Dwn by: ED/HR	Ckd by: PGV	Date: 2025-04-04
Reviewed by: TJS			M&N Project No. 212511-04
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL			Drawing code:
			Drawing Scale: Plot scale: 1:1 (D SHEET)

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM
moffatt & nichol

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

ALABAMA LICENSED PETER W. KOTULAK ENGINEER No. 50467 PROFESSIONAL

Peter W Kotulak
2025.04.04
SEAL 13:14:18-04'00'

Sheet Reference No.
C-315
INDEX: 23 OF 34

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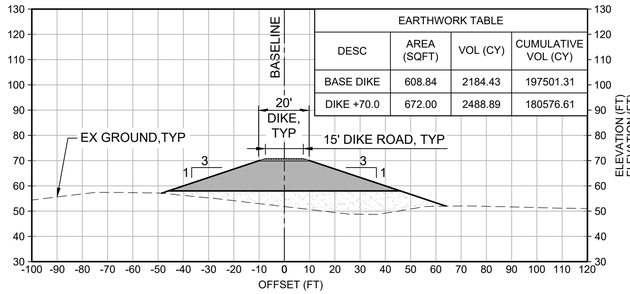
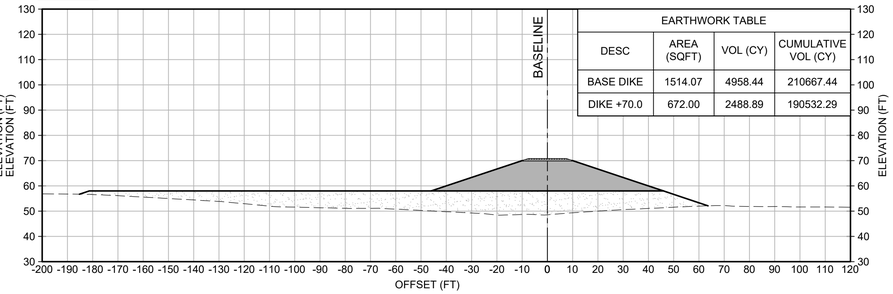
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

72+00.00



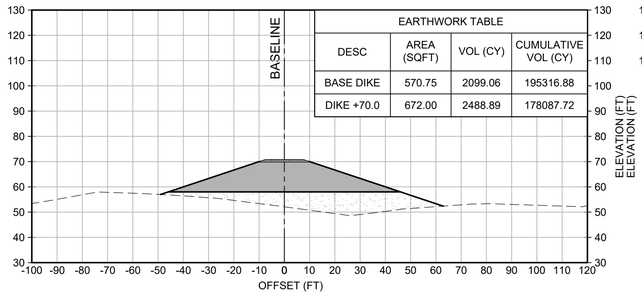
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	608.84	2184.43	197501.31
DIKE +70.0	672.00	2488.89	180576.61

76+00.00



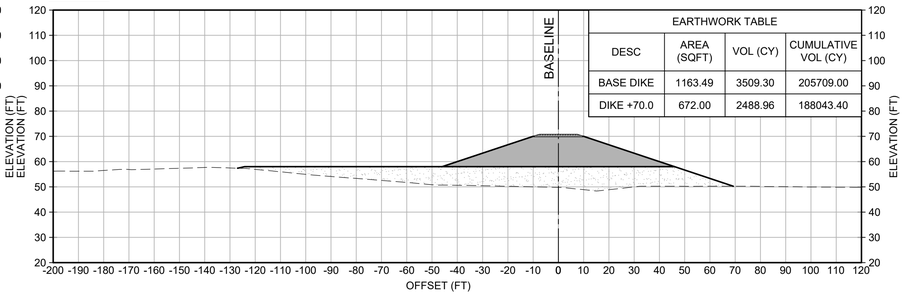
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1514.07	4958.44	210667.44
DIKE +70.0	672.00	2488.89	190532.29

71+00.00



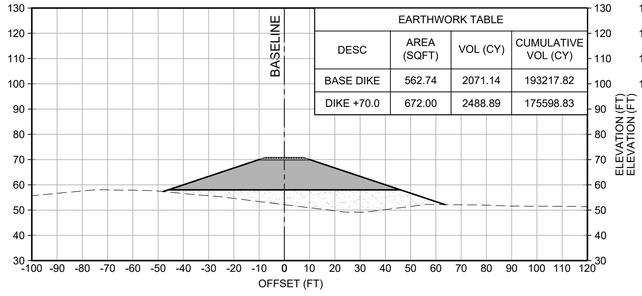
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	570.75	2099.06	195316.88
DIKE +70.0	672.00	2488.89	178087.72

75+00.00



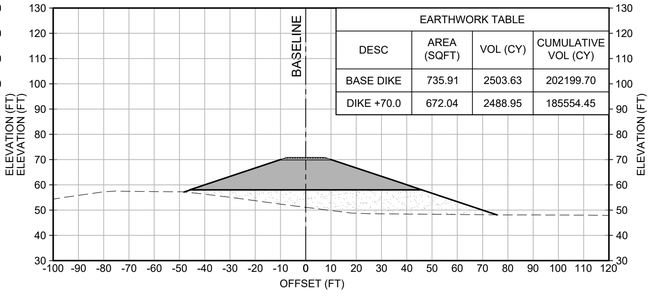
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1163.49	3509.30	205709.00
DIKE +70.0	672.00	2488.96	188043.40

70+00.00



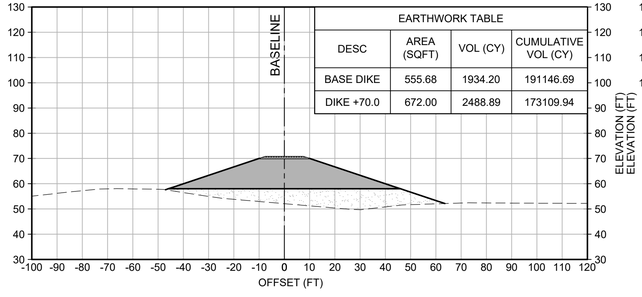
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	562.74	2071.14	193217.82
DIKE +70.0	672.00	2488.89	175598.83

74+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	735.91	2503.63	202199.70
DIKE +70.0	672.04	2488.95	185554.45

69+00.00



EARTHWORK TABLE			
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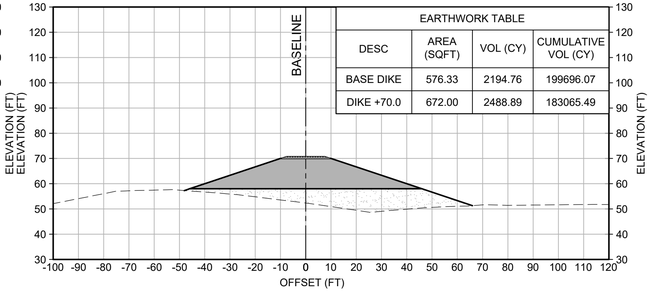
BASE DIKE	555.68	1934.20	191146.69
DIKE +70.0	672.00	2488.89	173109.94

73+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	576.33	2194.76	199696.07
DIKE +70.0	672.00	2488.89	183065.49

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - EAST MUD LAKE DIKE (7 OF 9)

Designed by: PWK
Dwn by: ED/HR
Ckd by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)
Rev.

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM
moffatt & nichol

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

ALABAMA LICENSED ENGINEER PETER W. MKOTULAK No. 50467 PROFESSIONAL

Peter M Mkotulak
2025.04.04
SEAL 13:14:19-04'00'

Sheet Reference No.
C-316
INDEX: 24 OF 34

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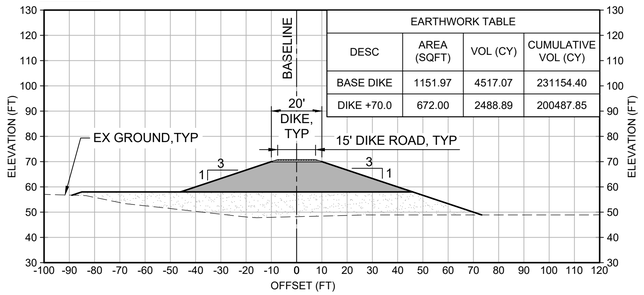
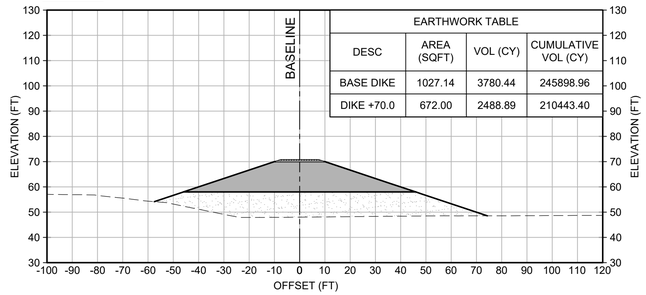
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

80+00.00



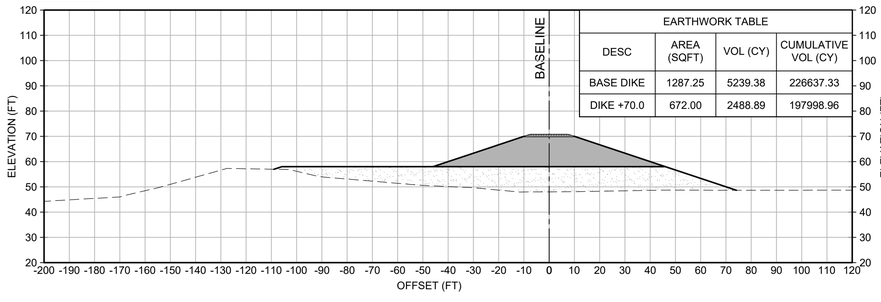
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1151.97	4517.07	231154.40
DIKE +70.0	672.00	2488.89	200487.85

84+00.00



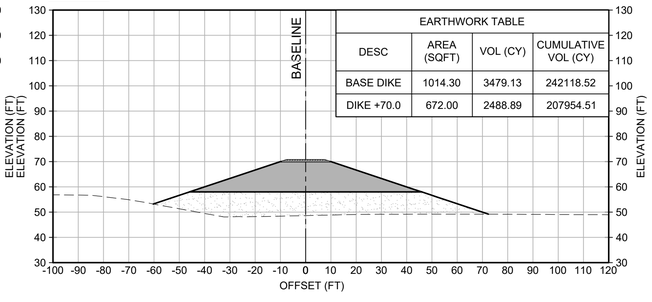
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1027.14	3780.44	245898.96
DIKE +70.0	672.00	2488.89	210443.40

79+00.00



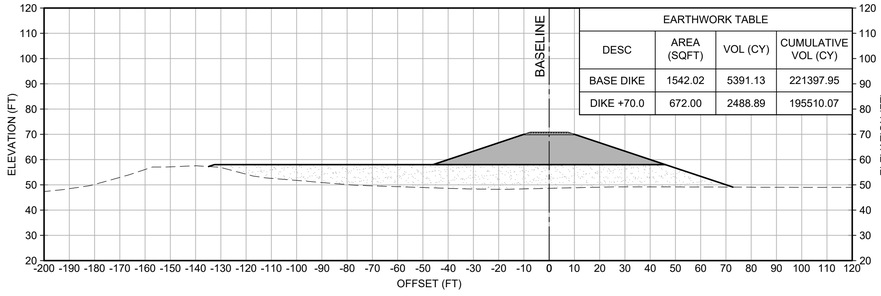
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1287.25	5239.38	226637.33
DIKE +70.0	672.00	2488.89	197998.96

83+00.00



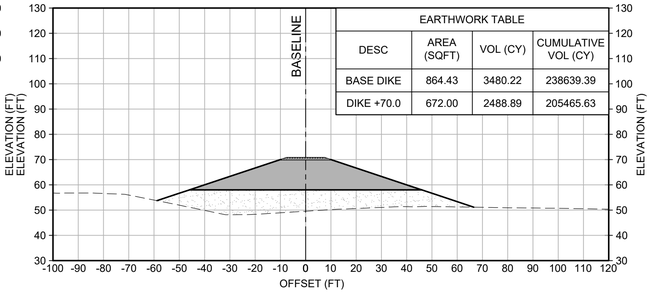
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1014.30	3479.13	242118.52
DIKE +70.0	672.00	2488.89	207954.51

78+00.00



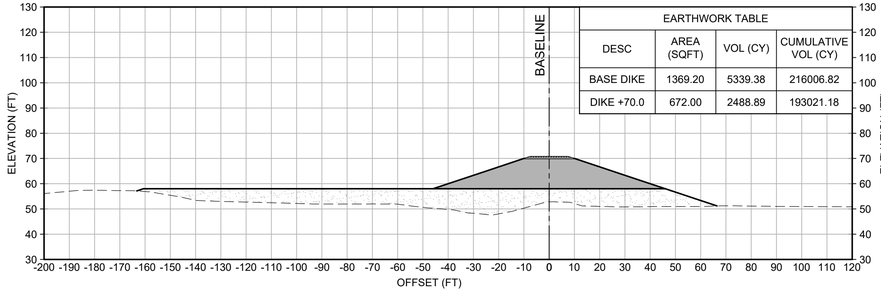
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1542.02	5391.13	221397.95
DIKE +70.0	672.00	2488.89	195510.07

82+00.00



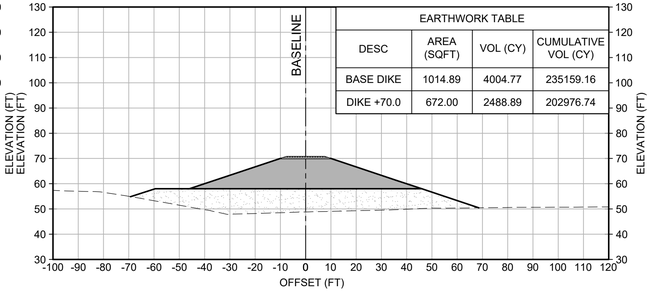
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	864.43	3480.22	238639.39
DIKE +70.0	672.00	2488.89	205465.63

77+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1369.20	5339.38	216006.82
DIKE +70.0	672.00	2488.89	193021.18

81+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1014.89	4004.77	235159.16
DIKE +70.0	672.00	2488.89	202976.74

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - EAST MUD LAKE DIKE
(8 OF 9)

Designed by: PWK
Dwn by: ED/HR
Ckd by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale: 1:1 (D SHEET)
Plot scale: 1:1 (D SHEET)
Rev.

moffatt & nichol
11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM

250 N. WATER STREET
MOBILE, AL 36602

ALABAMA PORT AUTHORITY
PORT OF MOBILE

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER W. MKOTULAK

Peter W Mkotulak
2025.04.04
SEAL 13:14:20-04'00'

Sheet Reference No.
C-317
INDEX: 25 OF 34

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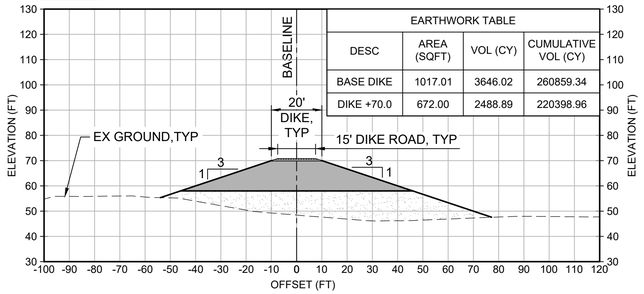
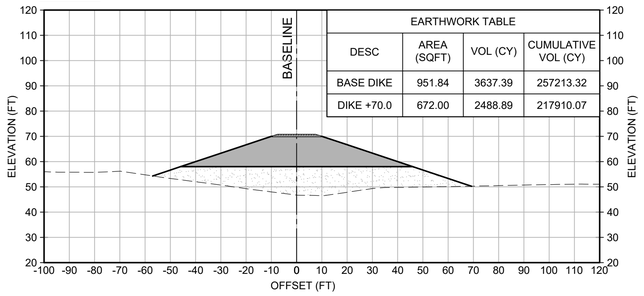
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

88+00.00



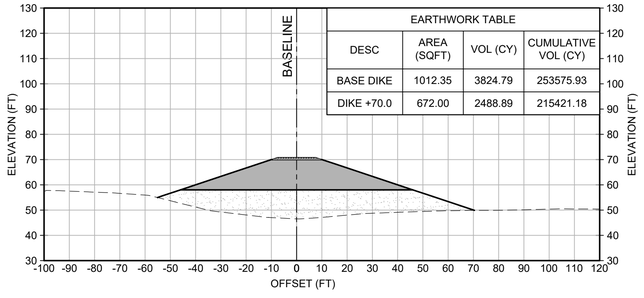
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1017.01	3646.02	260859.34
DIKE +70.0	672.00	2488.89	220398.96

87+00.00



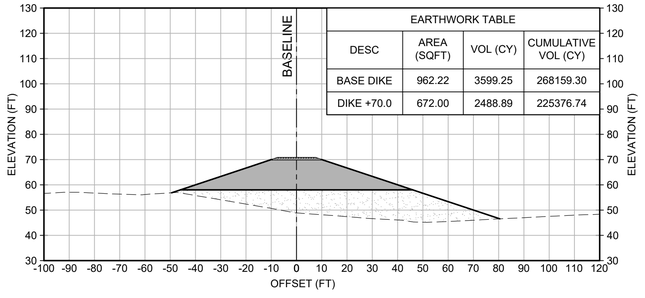
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	951.84	3637.39	257213.32
DIKE +70.0	672.00	2488.89	217910.07

86+00.00



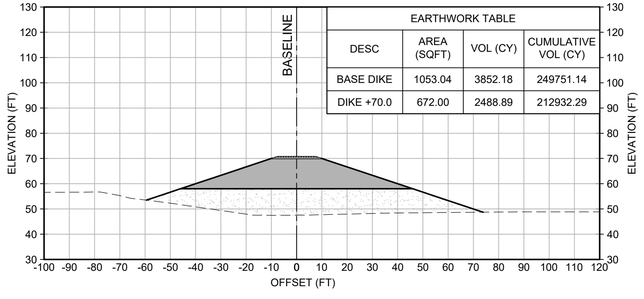
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1012.35	3824.79	253575.93
DIKE +70.0	672.00	2488.89	215421.18

90+00.00



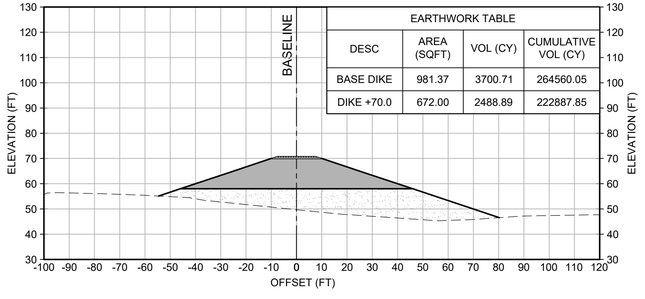
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	962.22	3599.25	268159.30
DIKE +70.0	672.00	2488.89	225376.74

85+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1053.04	3852.18	249751.14
DIKE +70.0	672.00	2488.89	212932.29

89+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	981.37	3700.71	264560.05
DIKE +70.0	672.00	2488.89	222887.85

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - EAST MUD LAKE DIKE
(9 OF 9)

moffatt & nichol
11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM

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

ALABAMA LICENSED
No. 50467 PROFESSIONAL
ENGINEER
PETER W. KOTULAK

Peter W Kotulak
2025.04.04
SEAL 13:14:20-04'00'

Designed by:	PWK
Dwn by:	ED/HR
Ckd by:	PGV
Reviewed by:	TJS
Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL
Date:	2025-04-04
M&N Project No.	212511-04
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)
Rev.	

Sheet
Reference No.
C-318
INDEX: 26 OF 34

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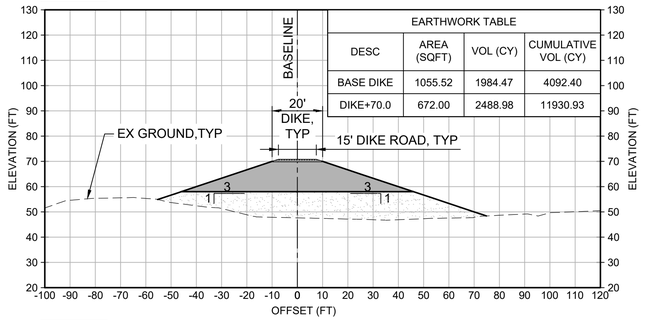
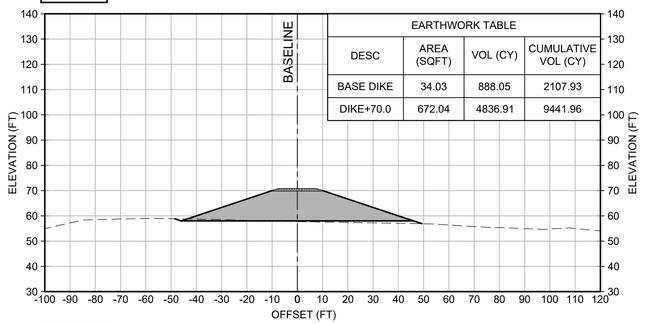
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

103+00.00



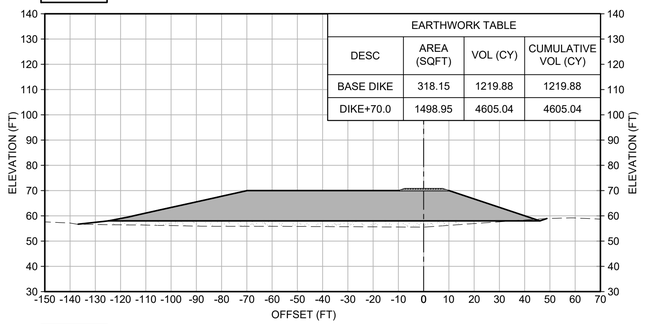
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1055.52	1984.47	4092.40
DIKE+70.0	672.00	2488.98	11930.93

102+00.00



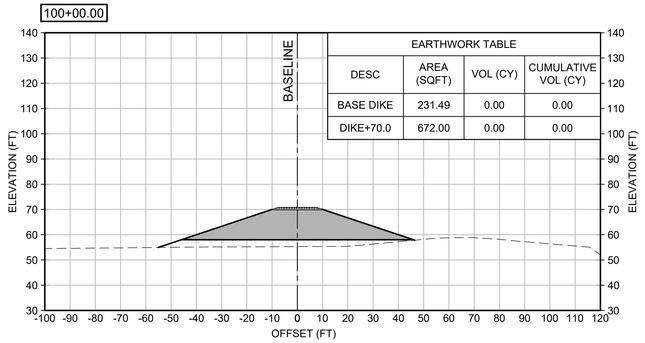
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	34.03	888.05	2107.93
DIKE+70.0	672.04	4836.91	9441.96

101+00.00



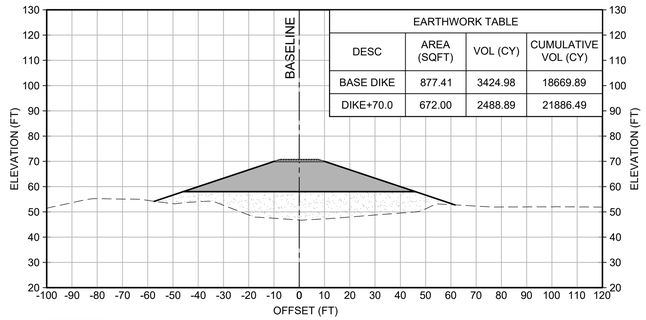
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	318.15	1219.88	1219.88
DIKE+70.0	1498.95	4605.04	4605.04

100+00.00



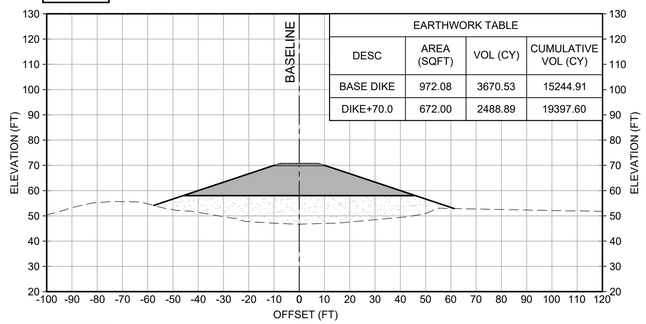
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	231.49	0.00	0.00
DIKE+70.0	672.00	0.00	0.00

107+00.00



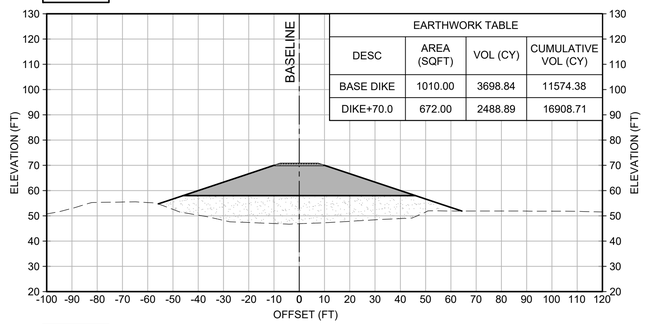
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	877.41	3424.98	18669.89
DIKE+70.0	672.00	2488.89	21886.49

106+00.00



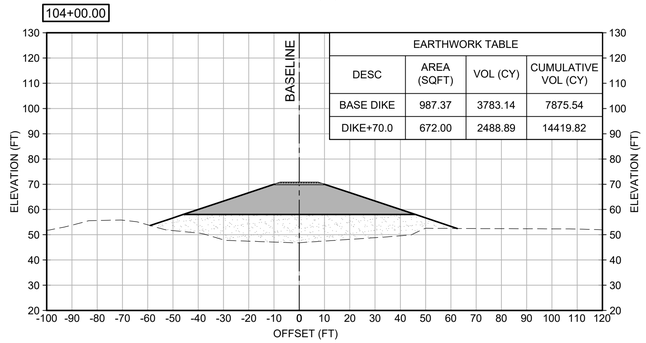
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	972.08	3670.53	15244.91
DIKE+70.0	672.00	2488.89	19397.60

105+00.00



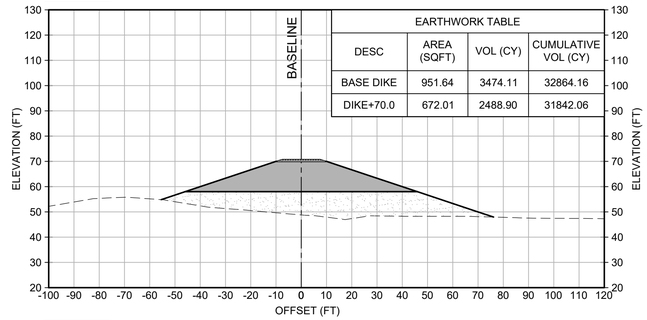
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1010.00	3698.84	11574.38
DIKE+70.0	672.00	2488.89	16908.71

104+00.00



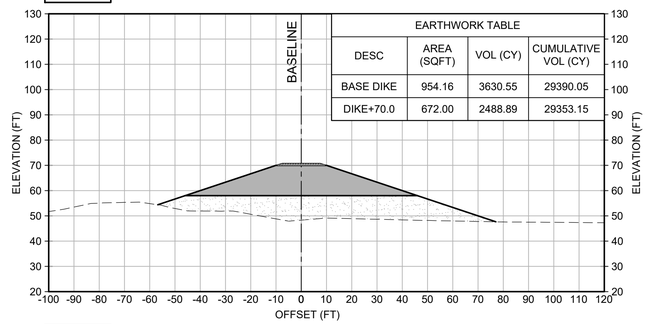
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	987.37	3783.14	7875.54
DIKE+70.0	672.00	2488.89	14419.82

111+00.00



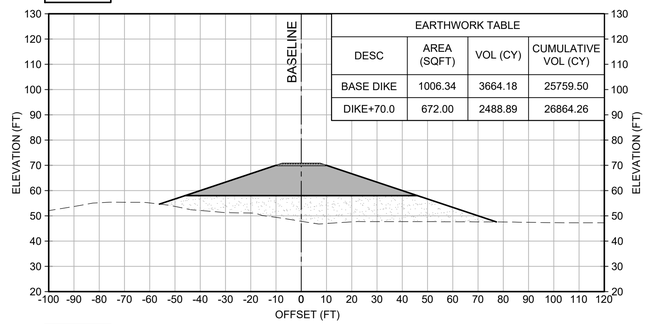
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	951.64	3474.11	32864.16
DIKE+70.0	672.01	2488.90	31842.06

110+00.00



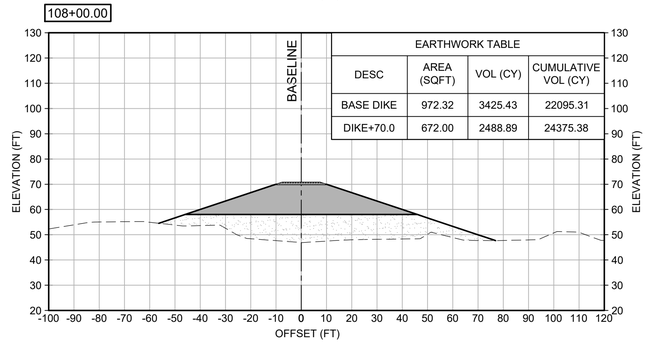
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	954.16	3630.55	29390.05
DIKE+70.0	672.00	2488.89	29353.15

109+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1006.34	3664.18	25759.50
DIKE+70.0	672.00	2488.89	26864.26

108+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	972.32	3425.43	22095.31
DIKE+70.0	672.00	2488.89	24375.38

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - WEST MUD LAKE DIKE
(1 OF 6)

Designed by: PWK
Drawn by: EDHR
Cad by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale: 1:1 (D SHEET)
Plot scale: 1:1

moffatt & nichol
11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM

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

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER
PETER W. KWIATKOWIAK
Peter W. Kwiatkowiak
2025.04.04
SEAL 13:14:21-04'00'

Sheet Reference No.
C-319
INDEX: 27 OF 34

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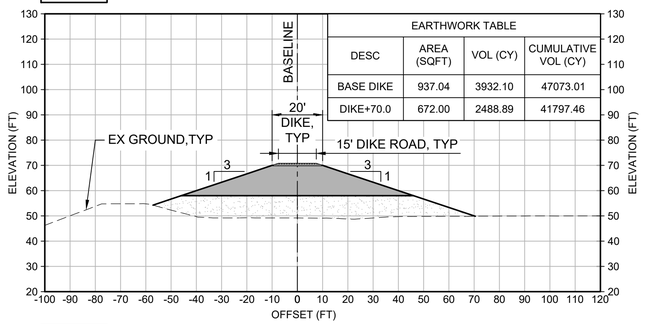
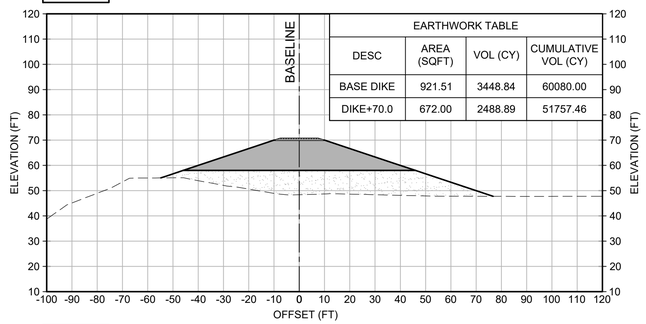
115+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	937.04	3932.10	47073.01
DIKE+70.0	672.00	2488.89	41797.46



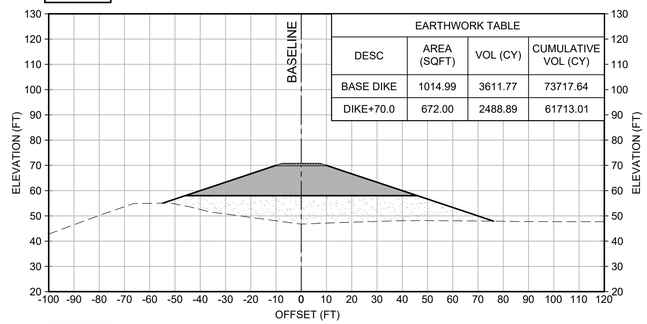
119+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	921.51	3448.84	60080.00
DIKE+70.0	672.00	2488.89	51757.46



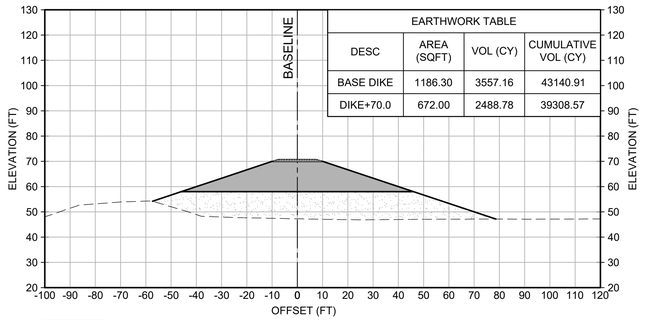
123+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1014.99	3611.77	73717.64
DIKE+70.0	672.00	2488.89	61713.01



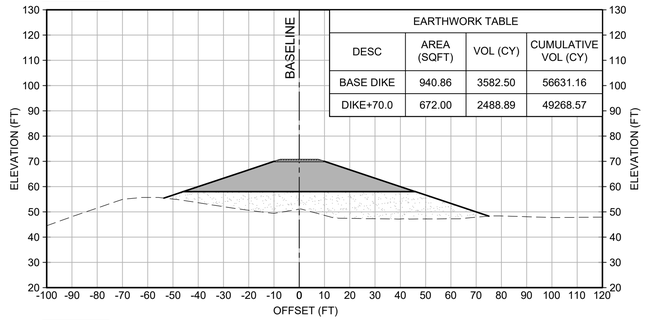
114+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1186.30	3557.16	43140.91
DIKE+70.0	672.00	2488.78	39308.57



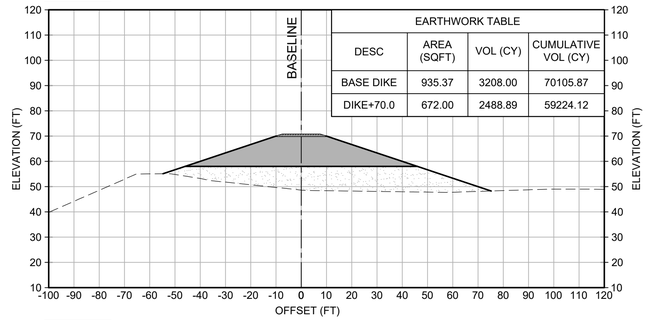
118+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	940.86	3582.50	56631.16
DIKE+70.0	672.00	2488.89	49268.57



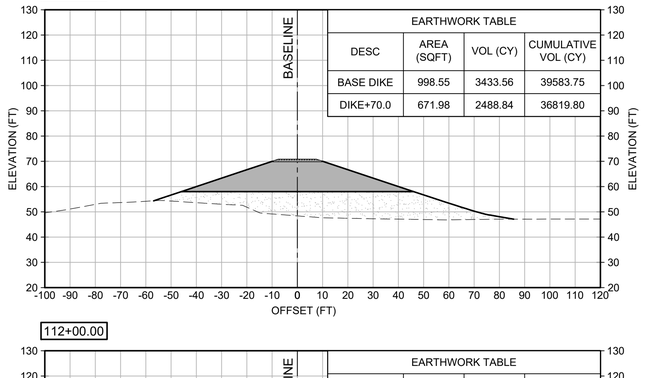
122+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	935.37	3208.00	70105.87
DIKE+70.0	672.00	2488.89	59224.12



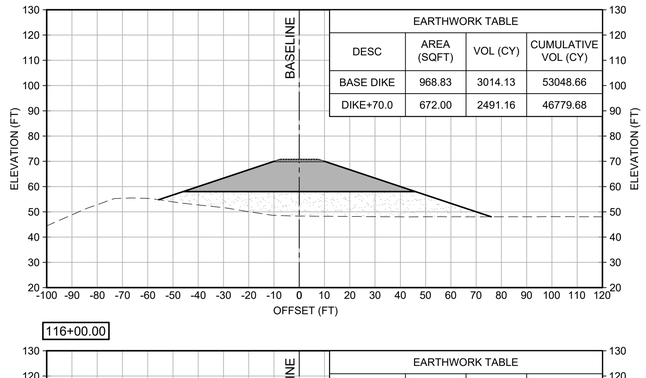
113+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	998.55	3433.56	39583.75
DIKE+70.0	671.98	2488.84	36819.80



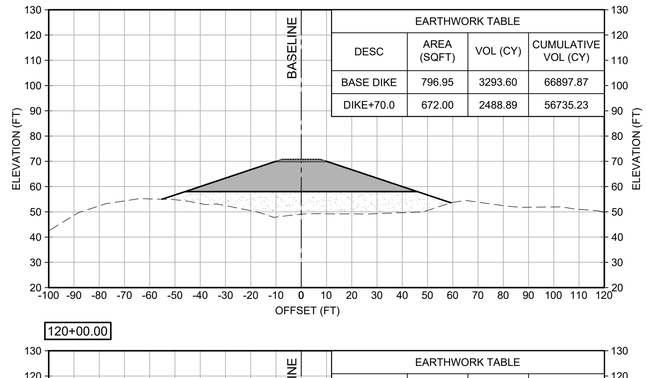
117+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	968.83	3014.13	53048.66
DIKE+70.0	672.00	2491.16	46779.68



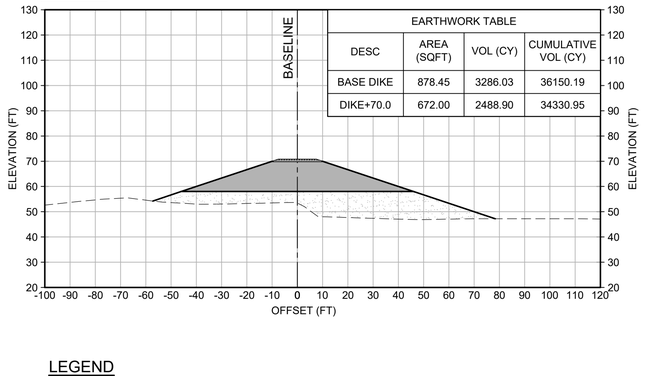
121+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	796.95	3293.60	66897.87
DIKE+70.0	672.00	2488.89	56735.23



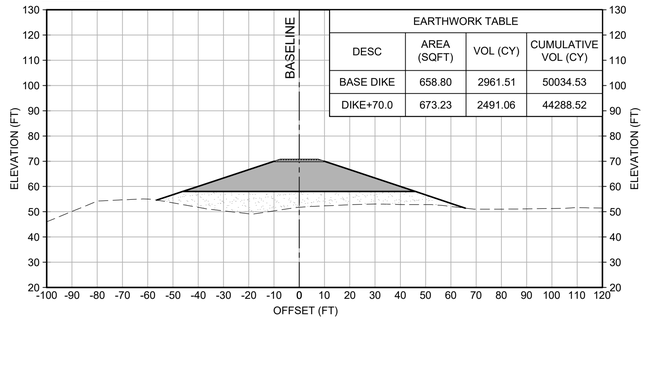
112+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	878.45	3286.03	36150.19
DIKE+70.0	672.00	2488.90	34330.95



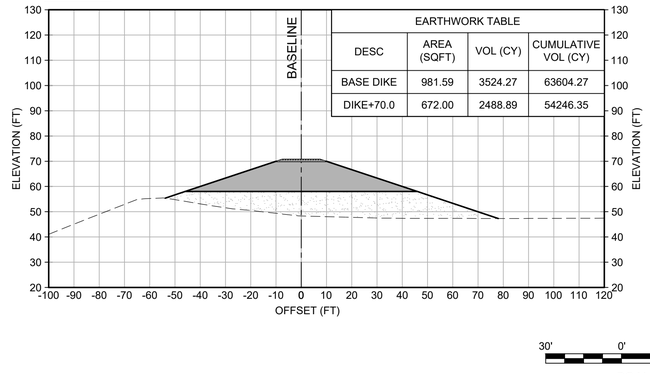
116+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	658.80	2961.51	50034.53
DIKE+70.0	673.23	2491.06	44288.52



120+00.00

DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	981.59	3524.27	63604.27
DIKE+70.0	672.00	2488.89	54246.35



LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - WEST MUD LAKE DIKE
(2 OF 6)

Designed by: PWK
Dwn by: EDHR
Ckd by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MCFATT & NICHOL
Date: 2025-04-04
M&N Project No. 212511-04
Drawing code:
Drawing Scale: 1:1 (D SHEET)
Plot scale: 1:1 (D SHEET)
Rev:

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM
moffatt & nichol

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

ALABAMA LICENSED PROFESSIONAL ENGINEER PETER W. KOMLAK No. 50467
Peter W. Komlak
2025.04.04
SEAL 13:14:22-04'00'

Sheet Reference No.
C-320
INDEX: 28 OF 34

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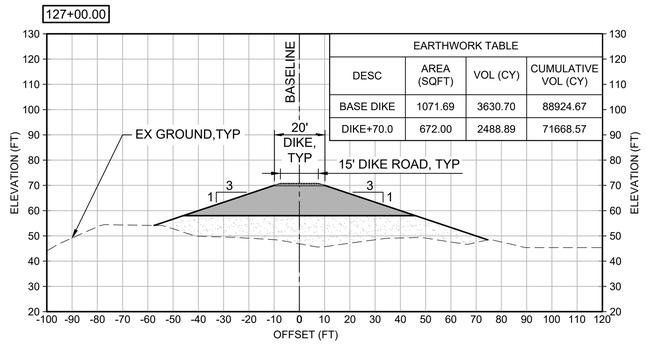
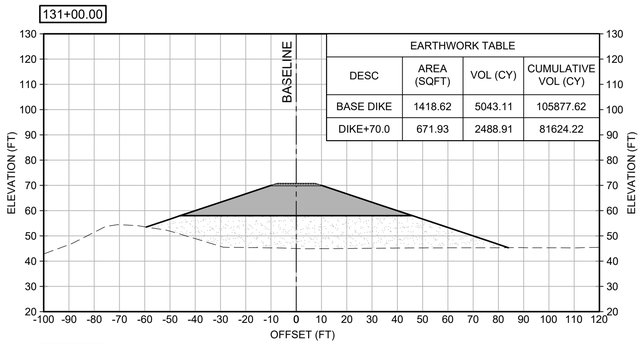
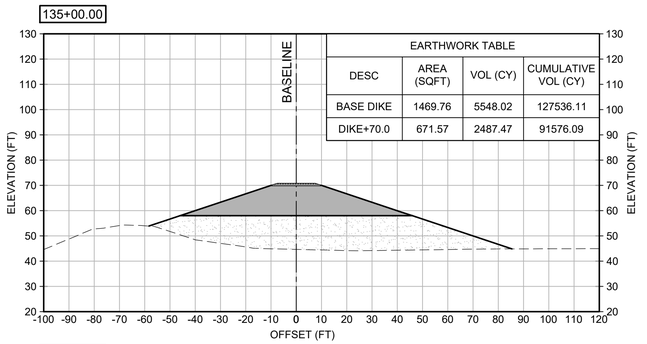
Saved: 2/12/2025 3:51 PM by CLARITY TASK 1



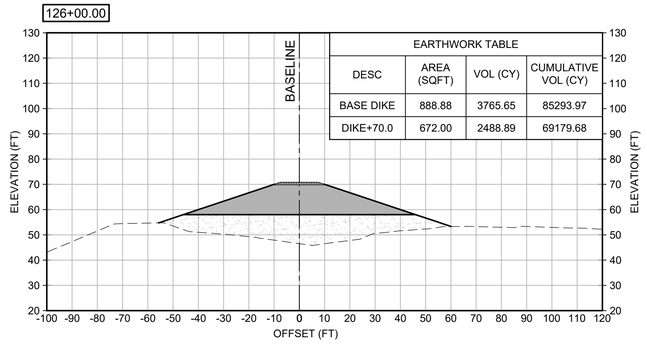
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1071.69	3630.70	88924.67
DIKE+70.0	672.00	2488.89	71668.57



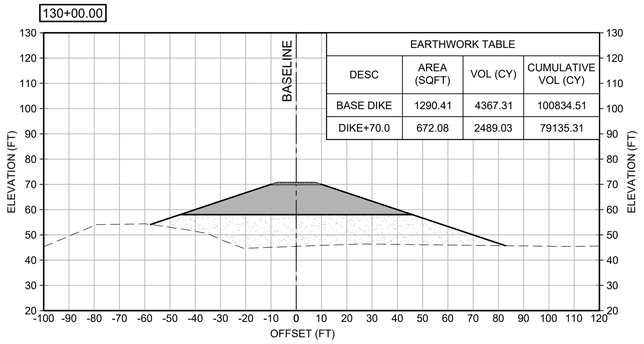
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1418.62	5043.11	105877.62
DIKE+70.0	671.93	2488.91	81624.22



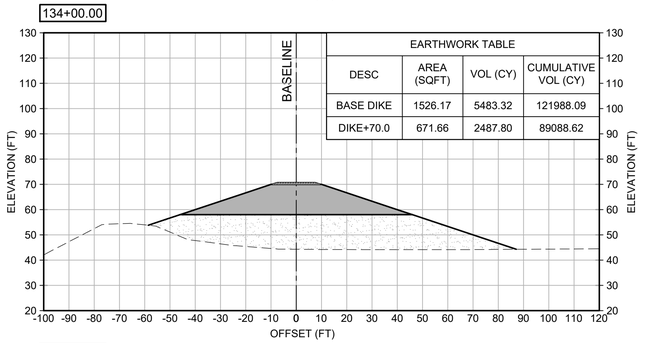
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1469.76	5548.02	127536.11
DIKE+70.0	671.57	2487.47	91576.09



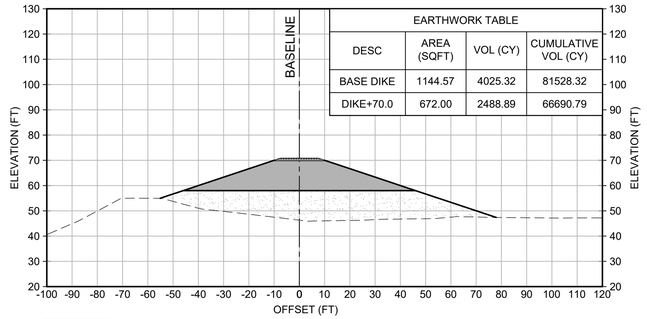
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	888.88	3765.65	85293.97
DIKE+70.0	672.00	2488.89	69179.68



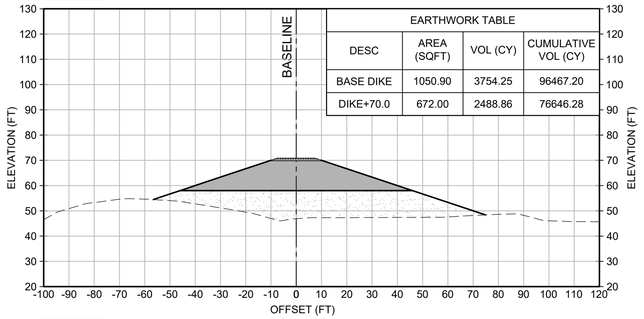
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1290.41	4367.31	100834.51
DIKE+70.0	672.08	2489.03	79135.31



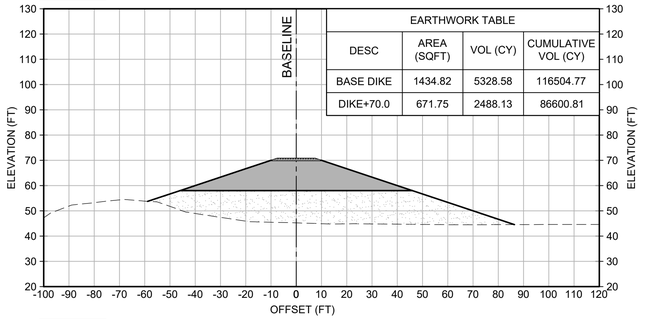
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1526.17	5483.32	121988.09
DIKE+70.0	671.66	2487.80	89088.62



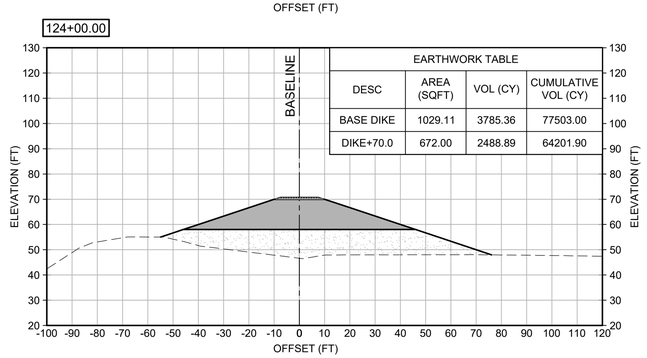
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1144.57	4025.32	81528.32
DIKE+70.0	672.00	2488.89	66690.79



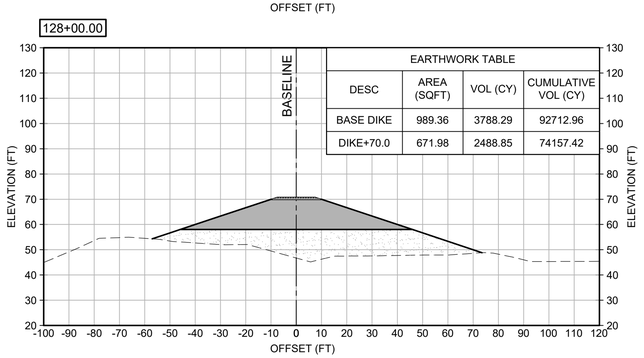
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1050.90	3754.25	96467.20
DIKE+70.0	672.00	2488.86	76646.28



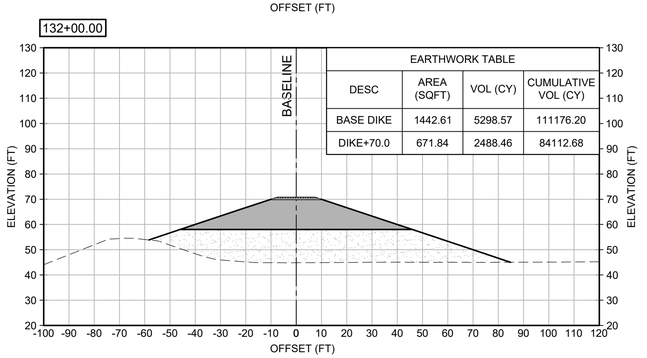
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1434.82	5328.58	116504.77
DIKE+70.0	671.75	2488.13	86600.81



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1029.11	3785.36	77503.00
DIKE+70.0	672.00	2488.89	64201.90



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	989.36	3788.29	92712.96
DIKE+70.0	671.98	2488.85	74157.42



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1442.61	5298.57	111176.20
DIKE+70.0	671.84	2488.46	84112.68

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - WEST MUD LAKE DIKE
(3 OF 6)

Designed by:	PWK
Dwn by:	EDHR
Ckd by:	PGV
Reviewed by:	TJS
Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL
Date:	2025-04-04
M&N Project No.	212511-04
Drawing code:	
Plot scale:	1:1 (D SHEET)
Drawing Scale:	
Rev.	

11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM

250 N. WATER STREET
MOBILE, AL 36602

ALABAMA LICENSED
No. 50467 PROFESSIONAL
PETER W. KOTTAK
ENGINEER
Peter W. Kottak
2025.04.04
SEAL 13:14:23-04'00'

Sheet Reference No.
C-321
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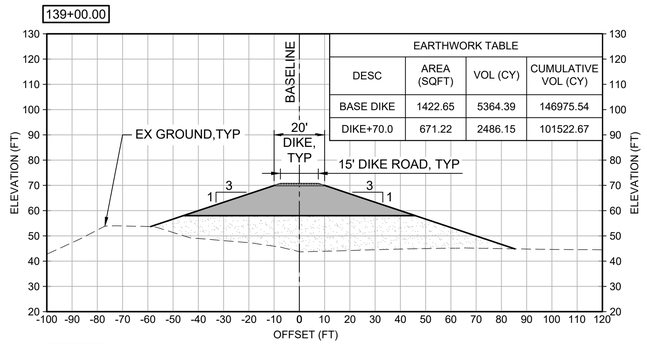

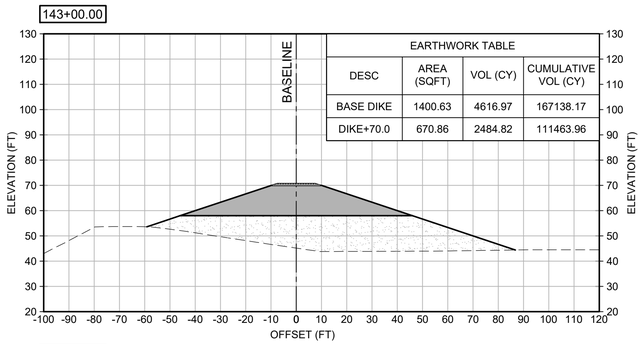

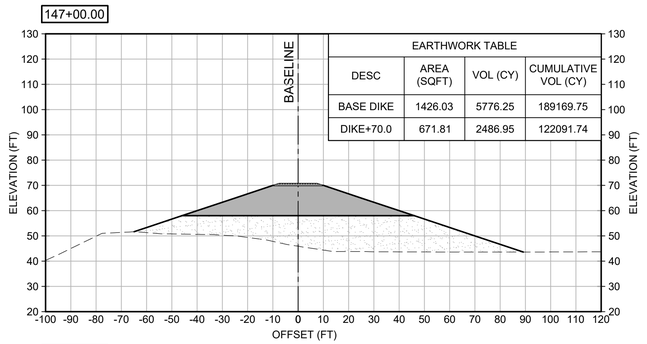

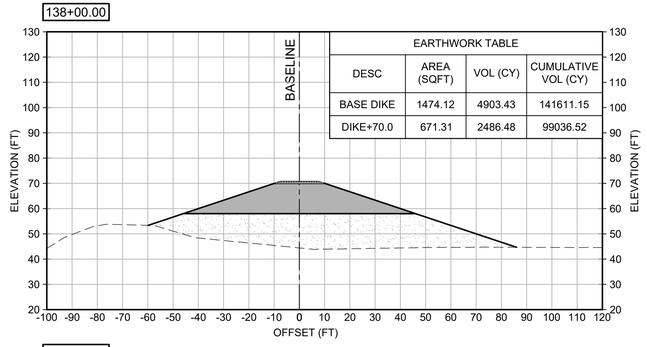

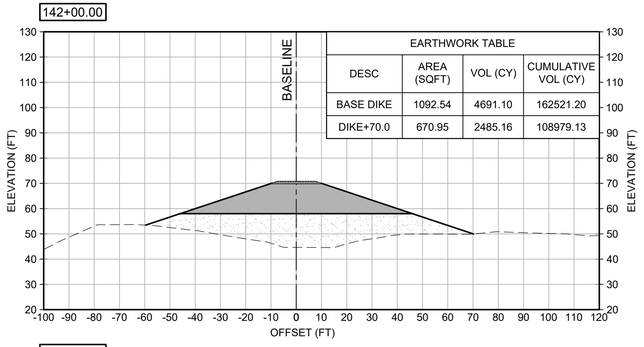

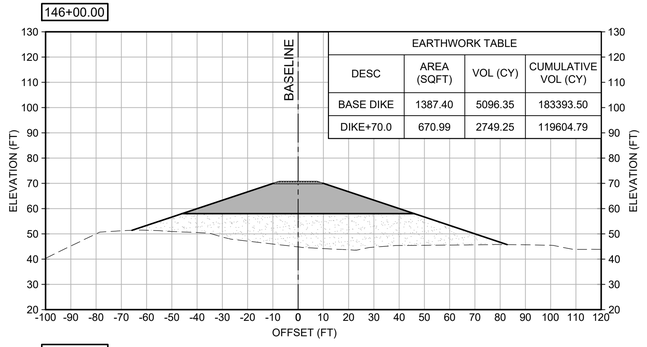

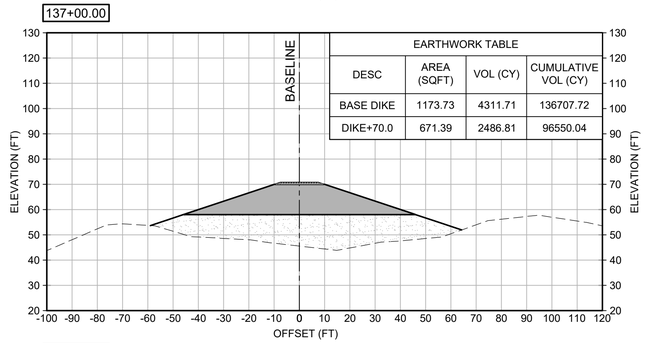

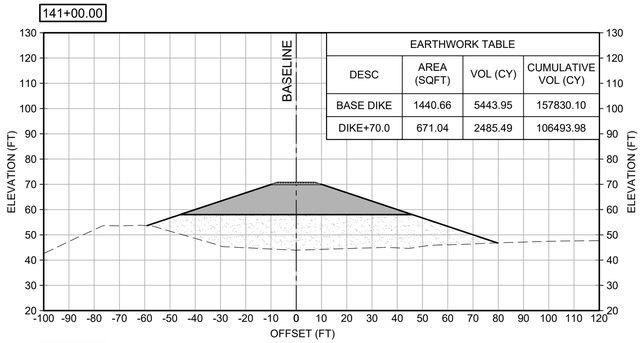

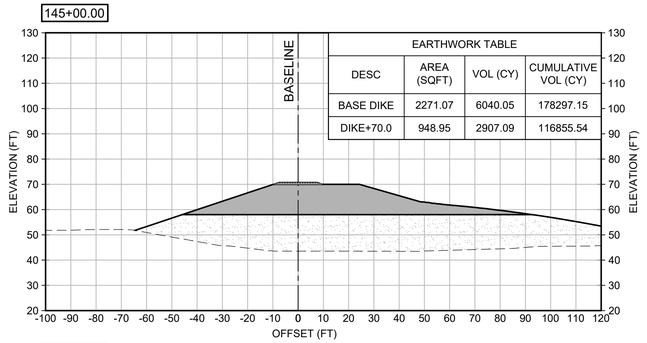

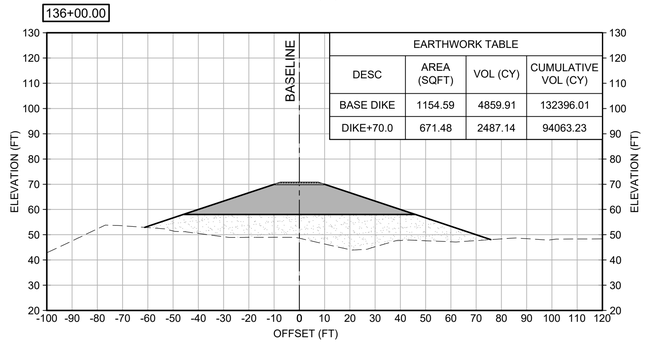

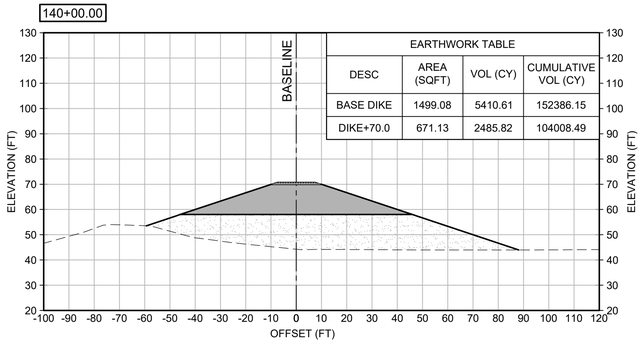

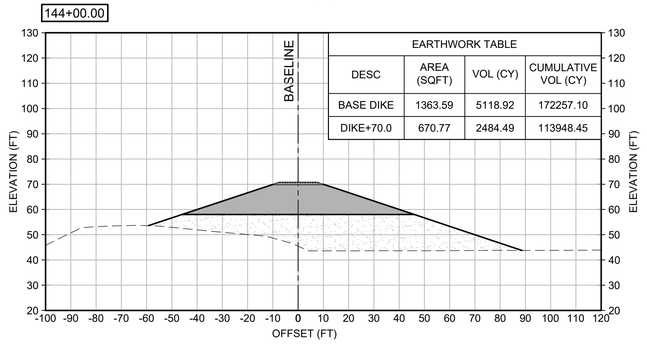

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - WEST MUD LAKE DIKE
(4 OF 6)

Designed by: PWK
Drawn by: EDH/R
Cad by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL
Date: 2025-04-04
Rev.
M&N Project No. 212511-04
Drawing code:
Plot scale: 1:1 (D SHEET)
Drawing Scale:

moffatt & nichol
11 N. WATER ST., SUITE 20220
MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM

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

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 50467
PETER W. KOTTAK
Peter W. Kottak
2025.04.04
SEAL 13:14:23-04'00'

Sheet Reference No.
C-322
INDEX: 30 OF 34

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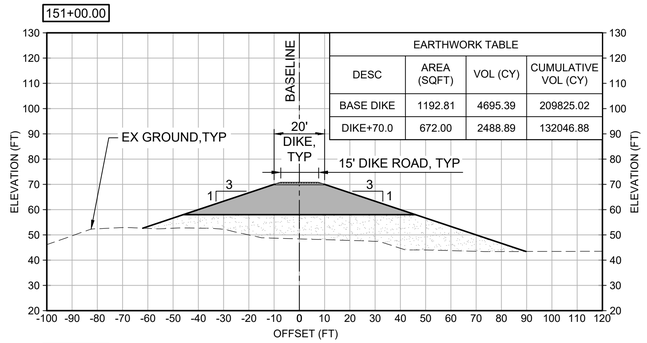
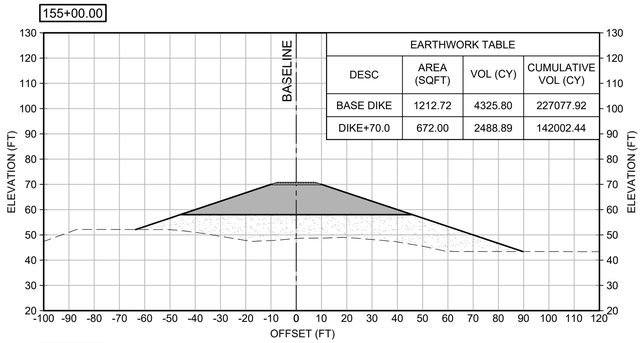
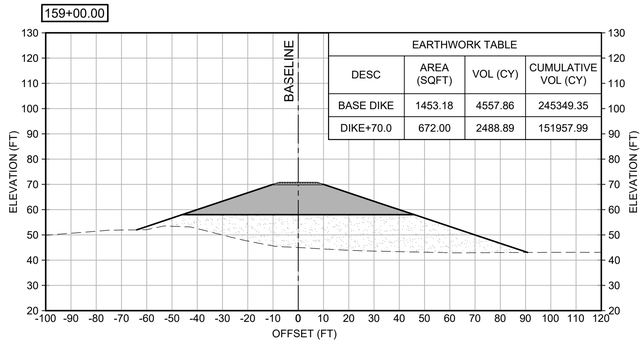


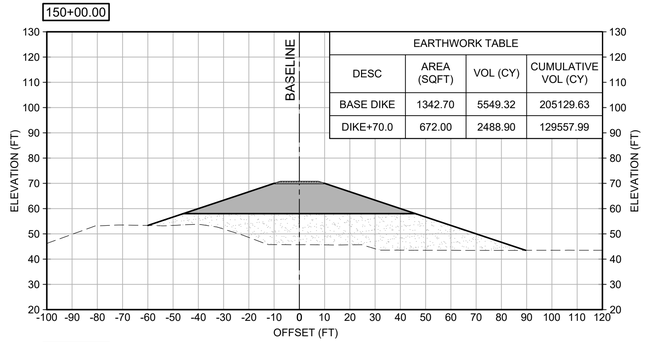
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1192.81	4695.39	209825.02
DIKE+70.0	672.00	2488.89	132046.88



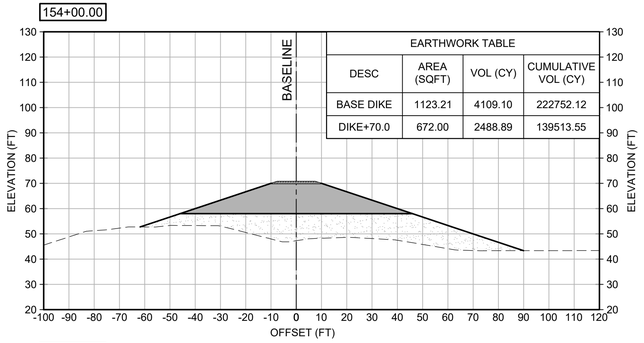
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1212.72	4325.80	227077.92
DIKE+70.0	672.00	2488.89	142002.44



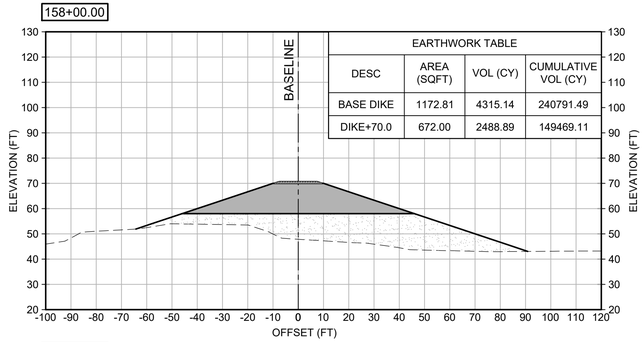
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1453.18	4557.86	245349.35
DIKE+70.0	672.00	2488.89	151957.99



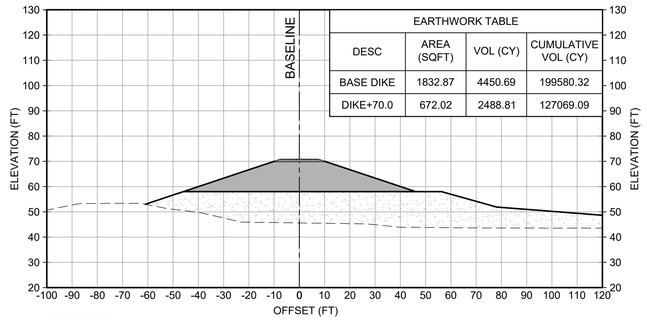
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1342.70	5549.32	205129.63
DIKE+70.0	672.00	2488.90	129557.99



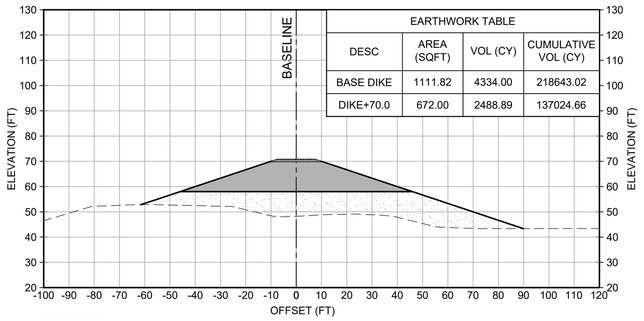
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1123.21	4109.10	222752.12
DIKE+70.0	672.00	2488.89	139513.55



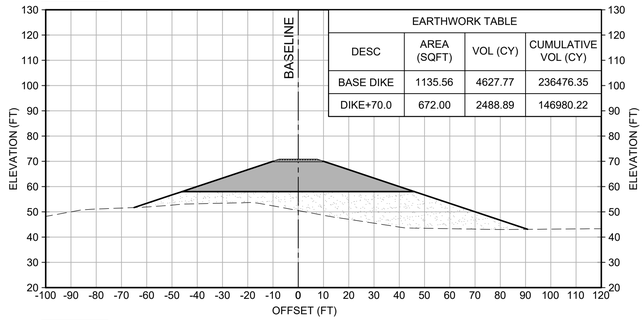
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1172.81	4315.14	240791.49
DIKE+70.0	672.00	2488.89	149469.11



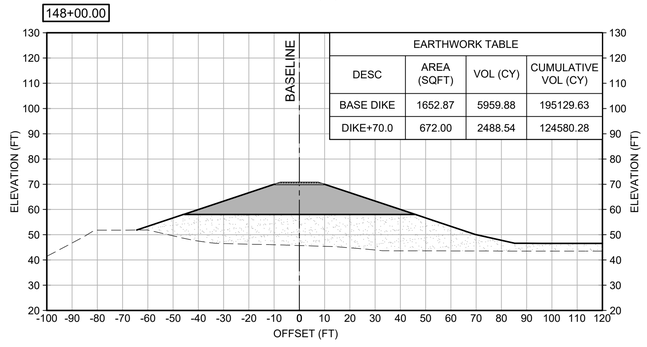
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1832.87	4450.69	199580.32
DIKE+70.0	672.02	2488.81	127069.09



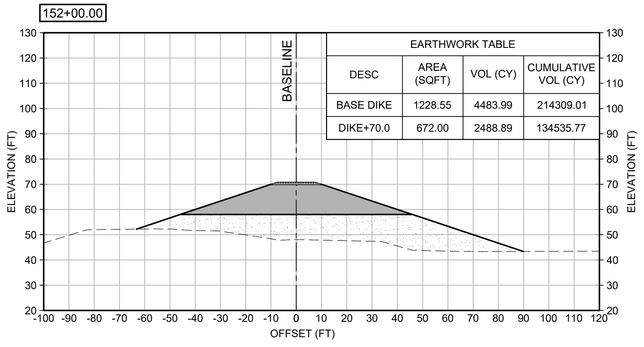
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1111.82	4334.00	218643.02
DIKE+70.0	672.00	2488.89	137024.66



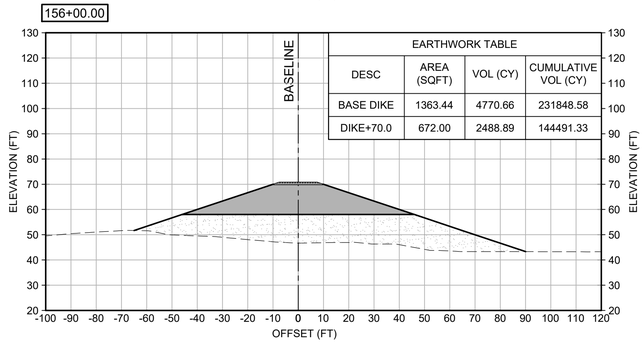
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1135.56	4627.77	236476.35
DIKE+70.0	672.00	2488.89	146980.22



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1652.87	5959.88	195129.63
DIKE+70.0	672.00	2488.54	124580.28



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1228.55	4483.99	214309.01
DIKE+70.0	672.00	2488.89	134535.77



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1363.44	4770.66	231848.58
DIKE+70.0	672.00	2488.89	144491.33

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL
- ACCESS RAMP
- STONE DIKE ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - WEST MUD LAKE DIKE (5 OF 6)

Date: 2025-04-04
Rev:
M&N Project No. 212511-04
Drawing code:
Drawing Scale: 1:1 (D SHEET)
Plot scale: 1:1
Designed by: PWK
Drawn by: EDI/HR
Qcd by: PGV
Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL

11 N. WATER ST., SUITE 20220
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251-378-9000
WWW.MOFFATTNICHOL.COM
moffatt & nichol

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

ALABAMA LICENSED
No. 50467 PROFESSIONAL
ENGINEER
PETER W. KOMLAK
Peter W. Komlak
2025.04.04
SEAL 13:14:24-04'00'

Sheet Reference No.
C-323
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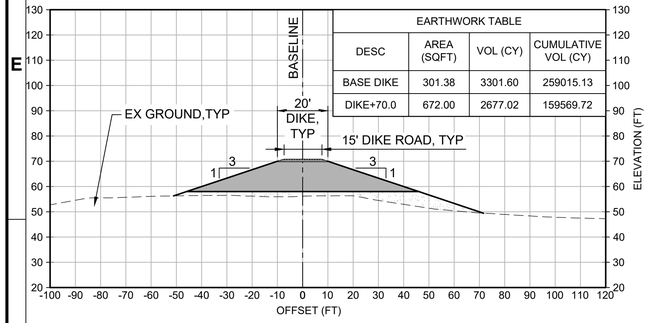
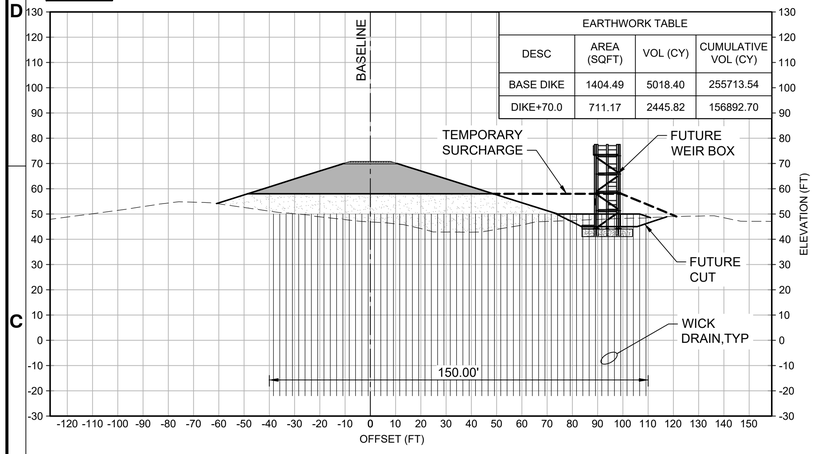
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

162+00.00



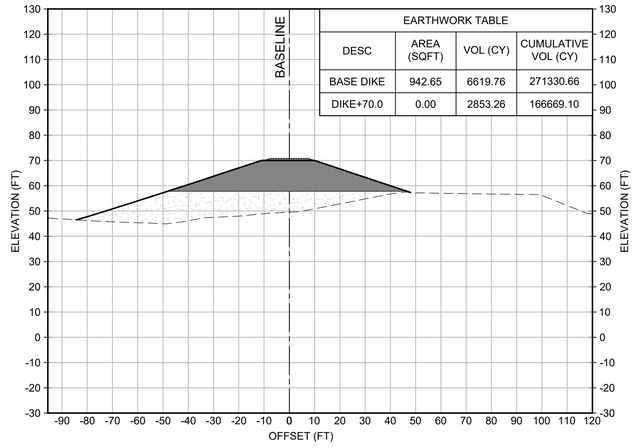
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	301.38	3301.60	259015.13
DIKE+70.0	672.00	2677.02	159569.72

160+95.49



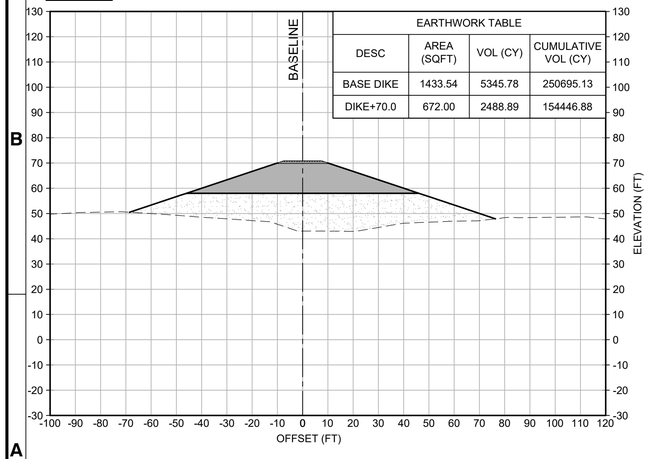
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1404.49	5018.40	255713.54
DIKE+70.0	711.17	2445.82	156892.70

164+00.00



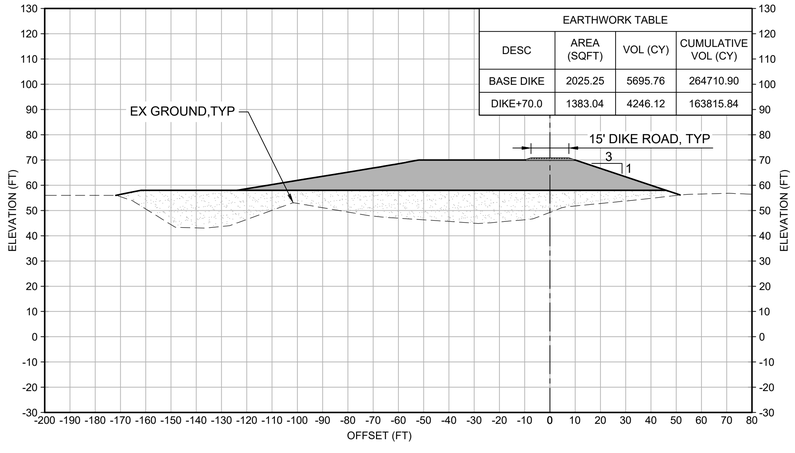
EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	942.65	6619.76	271330.66
DIKE+70.0	0.00	2853.26	166669.10

160+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	1433.54	5345.78	250695.13
DIKE+70.0	672.00	2488.89	154446.88

163+00.00



EARTHWORK TABLE			
DESC	AREA (SQFT)	VOL (CY)	CUMULATIVE VOL (CY)
BASE DIKE	2025.25	5695.76	264710.90
DIKE+70.0	1383.04	4246.12	163815.84

LEGEND

- SAND BASE DIKE WIDENING
- DIKE RAISING FILL

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

SECTIONS - WEST MUD LAKE DIKE (6 OF 6)

Designed by: PWK	Dwn by: EDHR	Ckd by: PGV	Reviewed by: TJS
Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL	Drawing Scale: Plot scale: 1:1 (D SHEET)	Drawing code:	M&N Project No. 212511-04
Date: 2025-04-04	Rev.		

moffatt & nichol
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MOBILE, AL 36602
251-378-9000
WWW.MOFFATTNICHOL.COM

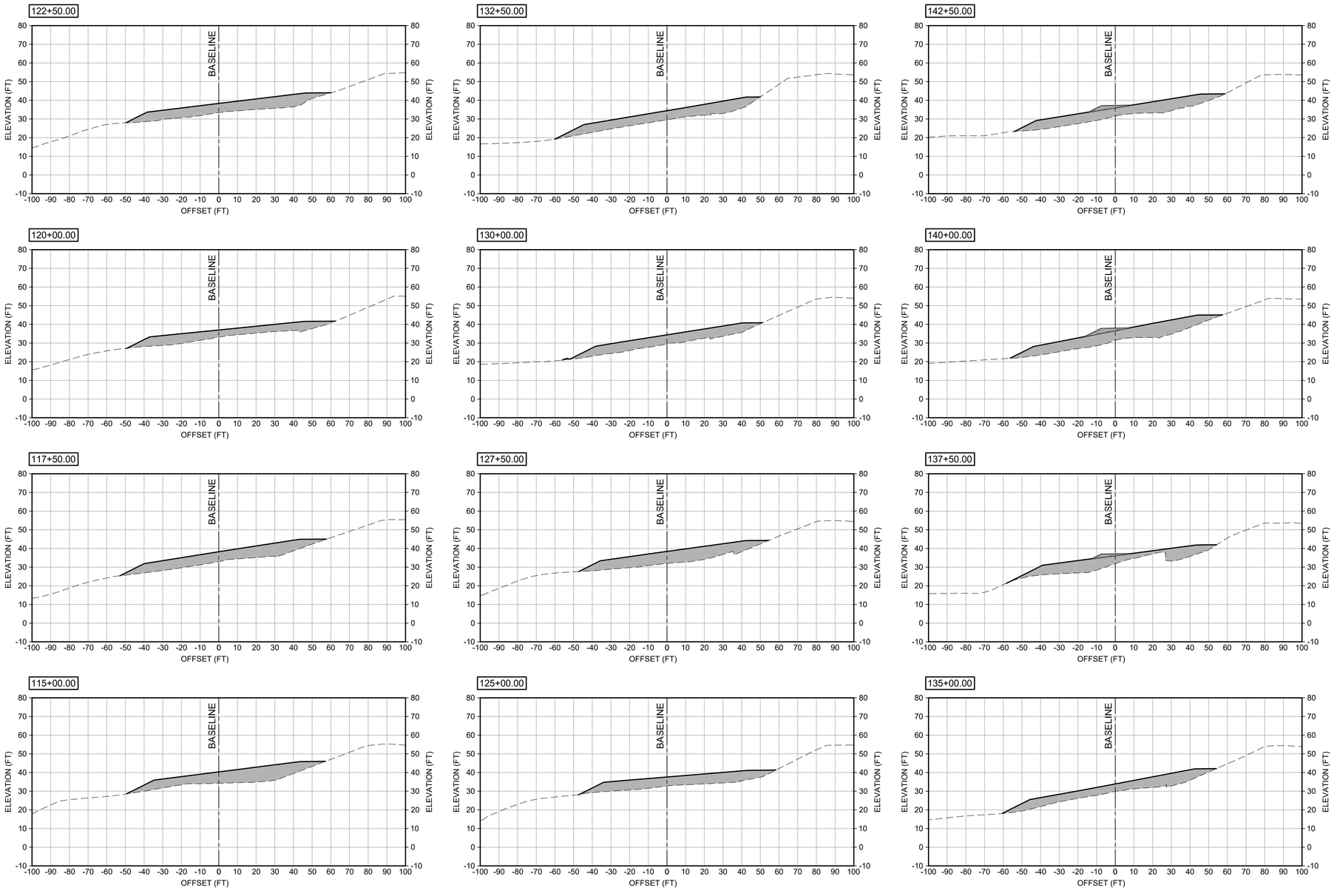
ALABAMA PORT AUTHORITY
250 N. WATER STREET
MOBILE, AL 36602

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER W. MAKOTAK
Peter W Makotak
2025.04.04
SEAL 13:14:25-04'00'

Sheet Reference No.
C-324
INDEX: 32 OF 34

File: \\mne.net\projects\BR\212511-04\20 CAD\1_Active_SheetSet Blakeley DMMA\212511-04-BLK-C-324 - Plotted: 4/4/2025 8:53 AM by CLARITY TASK 1 - Saved: 3/31/2025 12:30 PM by PVOELKER

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



LEGEND

- EXISTING GROUND
- STABILITY BERM FILL (TOTAL FILL 56,000 CY)
- STONE BERM ROAD

30' 0' 30' 60'

SCALE: 1"=30'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr

BLAKELEY / MUD LAKES DIKE RAISING PROJECT

SECTIONS - STABILITY BERM

Designed by:	PWK
Dwn by:	ED/HR
Ckd by:	PGV
Reviewed by:	TJS
Submitted by:	SUBMITTER'S NAME MOFFATT & NICHOL
Date:	2025-04-04
M&N Project No.	212511-04
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)
Rev.	

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ALABAMA PORT AUTHORITY
PORT OF MOBILE

ALABAMA LICENSED No. 50467 PROFESSIONAL ENGINEER PETER W. KOTULAK

Peter W Kotulak
2025.04.04
SEAL 13:14:26-04'00'

Sheet Reference No.
C-325
INDEX: 33 OF 34

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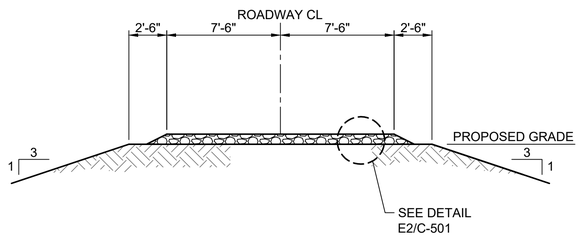
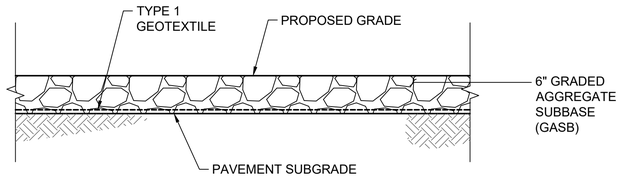
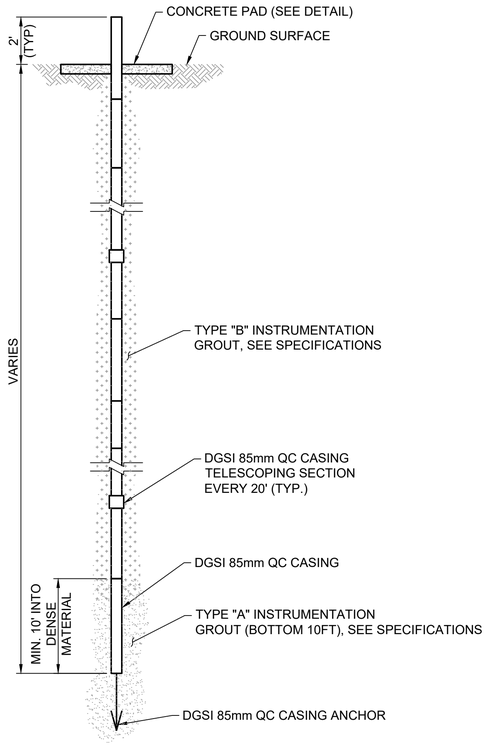


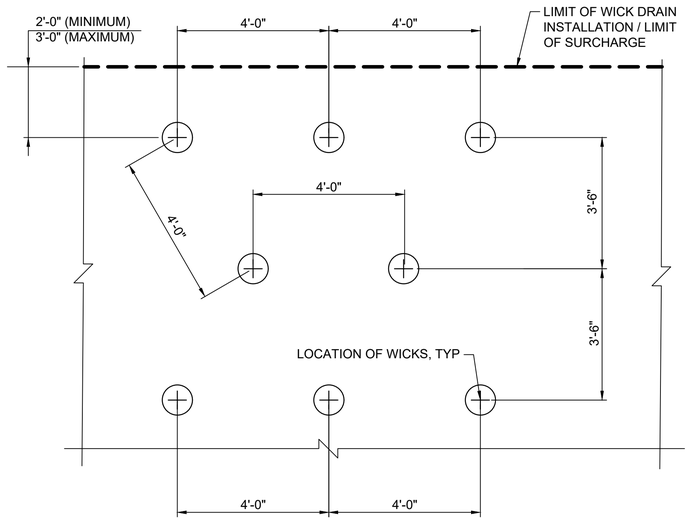
E1 C-501 DETAIL - DIKE ROAD AND RAMPS
SCALE: 1" = 5'



E2 C-501 DETAIL - DIKE ROAD STABILITY BERM ROAD AND RAMPS
SCALE: 1" = 1'



B1 C-501 DETAIL - TYPICAL INCLINOMETER
SCALE: 1/2" = 1'-0"



B2 C-102 DETAIL - WICK DRAIN LAYOUT
SCALE: 1/2" = 1'-0"

NOTE:

INCLINOMETER INSTALLATION WILL BE BY OTHERS.

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

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

5' 0' 5' 10'
SCALE: 1"=5'

ISSUED FOR BID
ISSUED: 2025-04-04
NOT TO BE USED FOR CONSTRUCTION

ALABAMA PORT AUTHORITY
PORT OF MOBILE

Mark	Description	Date	Appr.

BLAKELEY / MUD LAKES
DIKE RAISING PROJECT

DETAILS - SITE

Designed by: PWK	Drawn by: EDHR	Checked by: PGV	Date: 2025-04-04
Reviewed by: TJS	Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL	Drawing code:	M&N Project No. 212511-04
		Drawing Scale:	Plot scale: 1:1 (D SHEET)

Rev.

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

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 50467
PROFESSIONAL
STEVEN WILLIAM KOTTLAK
Peter William Kotlak
2025.04.04
SEAL 13:14:27-04'00'

Sheet Reference No.
C-501
INDEX: 34 OF 34

File: \\mne.net\projects\BR\212511-04\20 CADD_Active_SheetSet Blakeley DMMA\212511-04-BLK-C-501 - Plotted: 4/4/2025 5:54 AM by CLARITY TASK 1 - Saved: 4/2/2025 12:14 PM by HRIDOUANE

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING