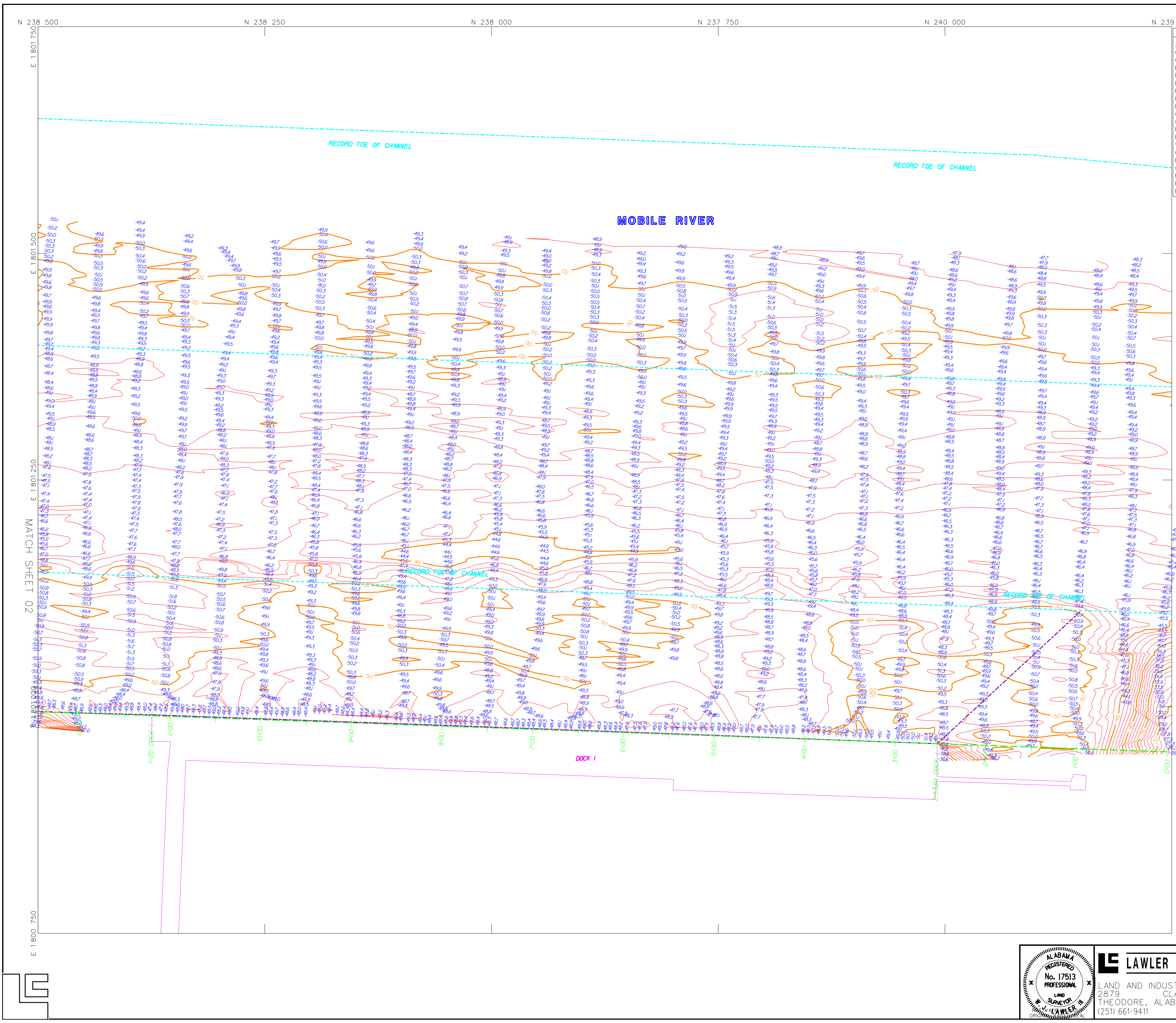
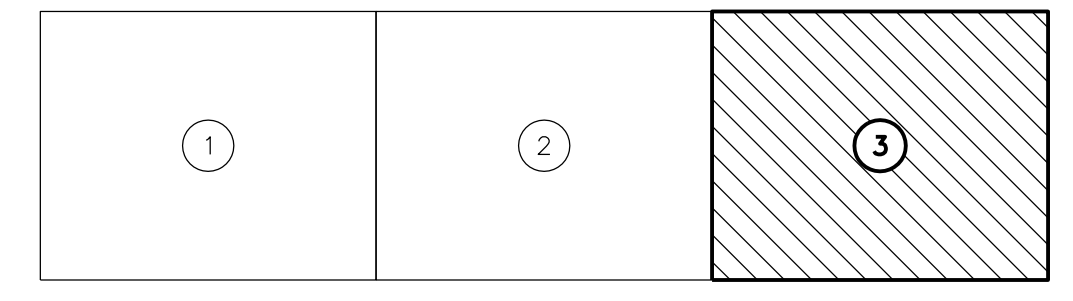


APPENDIX C
HYDROGRAPHIC SURVEYS



LEGEND	
ASPHALT	WATER VALVE
CURB LINES	TELEPHONE BOX
OVERHEAD LINES	UNKNOWN ELECTRICAL
FIBER OPTIC CABLE	STREET LIGHTS
MCI TELEPHONE	POLES
BELLSOUTH LINES	GUY ANCHORS
RAILROAD	TRANSFORMERS
FENCES	ACCENT LIGHTS
BUILDINGS	SHORELINES
CULVERTS	SIGNS
CATCH BASINS	DECIDUOUS TREES
MAN HOLES	GATE VALVE
FIRE HYDRANT	AIR VALVE
WATER METER	PIPE STUB
GAS METER	SANITARY CLEAN OUT
FIBER OPTIC CABLE	R/W-RIGHT OF WAY
CABLE TV BOX	CMP-CORRUGATED METAL PIPE
ROOF DRAIN	CONC.-CONCRETE
HANDICAP PARKING	A/C-CENTRAL HVAC UNIT
PALM TREES	SEC.-GOVERNMENTAL SECTION
	PARCEL BOUNDARY
	ADJOINING PROPERTY
	SECTION LINE
	SET BACK LINES
	EASEMENTS
	SPOT ELEVATIONS
	INDEX CONTOURS
	CONTOURS
	TEMPORARY CONTROL POINT
	MONUMENTS
	IRON PINS & PIPES AS NOTED
	RCP-REINFORCED CONCRETE PIPE
	ARCP-ARCHED REINFORCED CONCRETE PIPE
	CTIF-CRIMP TOP IRON PIPE FOUND
	REC-DEED RECORD DIMENSION
	ACT-ACTUAL FIELD MEASUREMENT
	CRF-CAPPED REBAR FOUND
	IRF-IRON ROD (REBAR) FOUND
	XF-SCRIBED X FOUND IN CONCRETE
	CMF-CONCRETE MONUMENT FOUND



INDEX TO SHEETS

MATERIAL QUANTITIES:
 BASED ON HYDROGRAPHIC SURVEY DATED 05-23-24 AND FINAL SURVEY DATED 6-3-24.
 THE FOLLOWING QUANTITIES ARE REFLECTED QUANTITIES SHOWN AS "IN PLACE"
 CUBIC YARDS WITH 3:1 SIDE SLOPE ON UP & DOWN STREAM

DOCK 1 & 2:
 TARGET ELEVATION -47.0: 39456 CUBIC YARDS
 TARGET ELEVATION -48.0: 52554 CUBIC YARDS
 TARGET ELEVATION -49.0: 68439 CUBIC YARDS
 MATERIAL REMAINING ABOVE ELEVATION -47.0: 168 CUBIC YARDS
 MATERIAL REMAINING ABOVE ELEVATION -48.0: 276 CUBIC YARDS
 MATERIAL REMAINING ABOVE ELEVATION -49.0: 1577 CUBIC YARDS
 TOTAL MATERIAL REMOVED 8280 CUBIC YARDS

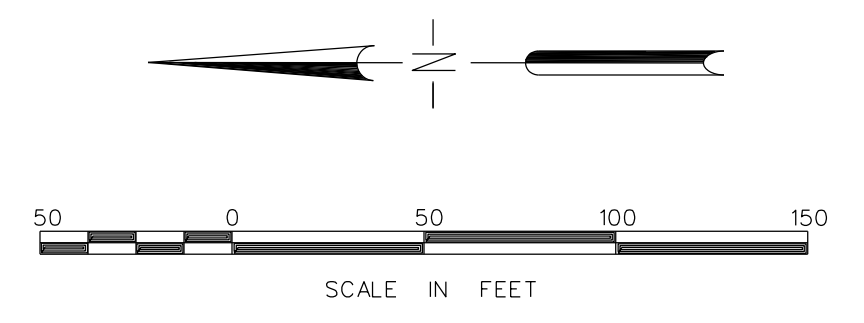
ECHOSOUNDER FREQUENCY STATEMENT:
 THIS SURVEY WAS COMPLETED USING ODOM E2D DUAL FREQUENCY ECHOSOUNDER WITH A DUAL FREQUENCY TRANSDUCER HAVING TRANSMIT FREQUENCIES OF 200 & 24 KHZ. HIGH FREQUENCY (200KHZ) DATA PROVIDES A "FIRST RETURN" SOUNDING, WHICH CAN POTENTIALLY REPRESENT SUSPENDED MATERIAL LAYERS INSTEAD OF TRUE BOTTOM.

LOW FREQUENCY (24KHZ) DATA ALLOWS GREATER PENETRATION AND PRESENTS SOUNDINGS BENEATH SUSPENDED MATERIAL LAYERS BUT MAY ALSO PENETRATE INTO SOME MATERIALS AT A DEPTH GREATER THAN ACTUAL "HARD" BOTTOM.
 LOW FREQUENCY DATA IS PROVIDED FOR REFERENCE ONLY AND SHOULD NOT BE CONSIDERED "ACTUAL BOTTOM" WHEN INTERPRETING SOUNDING DATA. CAUTION IS ADVISED.

GENERAL NOTES:
 250 FOOT GRID BASED ON ALABAMA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83
 ONE FOOT CONTOUR INTERVAL BASED ON MLW, 1929 REFERENCING TO CONVERT MLW TO NGVD SUBTRACT 0.51 FEET FROM MLW
 TOPOGRAPHIC DATA TAKEN FROM PREVIOUS DRAWINGS BY THIS FIRM
 HYDROGRAPHIC DATA COLLECTED WITH DIFFERENTIAL GPS BASED AUTOMATED SYSTEM MODELING AND CONTOURING ACCOMPLISHED WITH INROADS INSIDE MICROSTATION ECHOSOUNDER CALIBRATED ACCORDING TO USCOE PROCEDURES AND PRODUCED A SPEED OF SOUND CORRECTION OF 4895 MILLISECONDS
 DOCK 2 FIELD SURVEY COMPLETED ON 30 MAY, 2024
 DOCK 1 FIELD SURVEY COMPLETED ON 03 JUNE, 2024
 FILE: ASPAN\MCDUFFIE\HYDRO-2024\24071\MCDUFFIE-POSTDREDGE-HYDRO-JUNE-2024.DGN

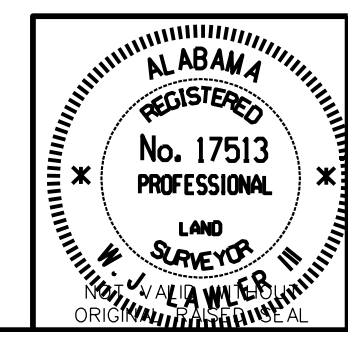
CERTIFICATION:
 I, W. J. LAWLER, II, A REGISTERED LAND SURVEYOR IN THE STATE OF ALABAMA, HEREBY CERTIFY THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE OF LAND SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

THIS IS THE 11TH DAY OF JUNE, 2024
 W. J. LAWLER, III PLS 17513

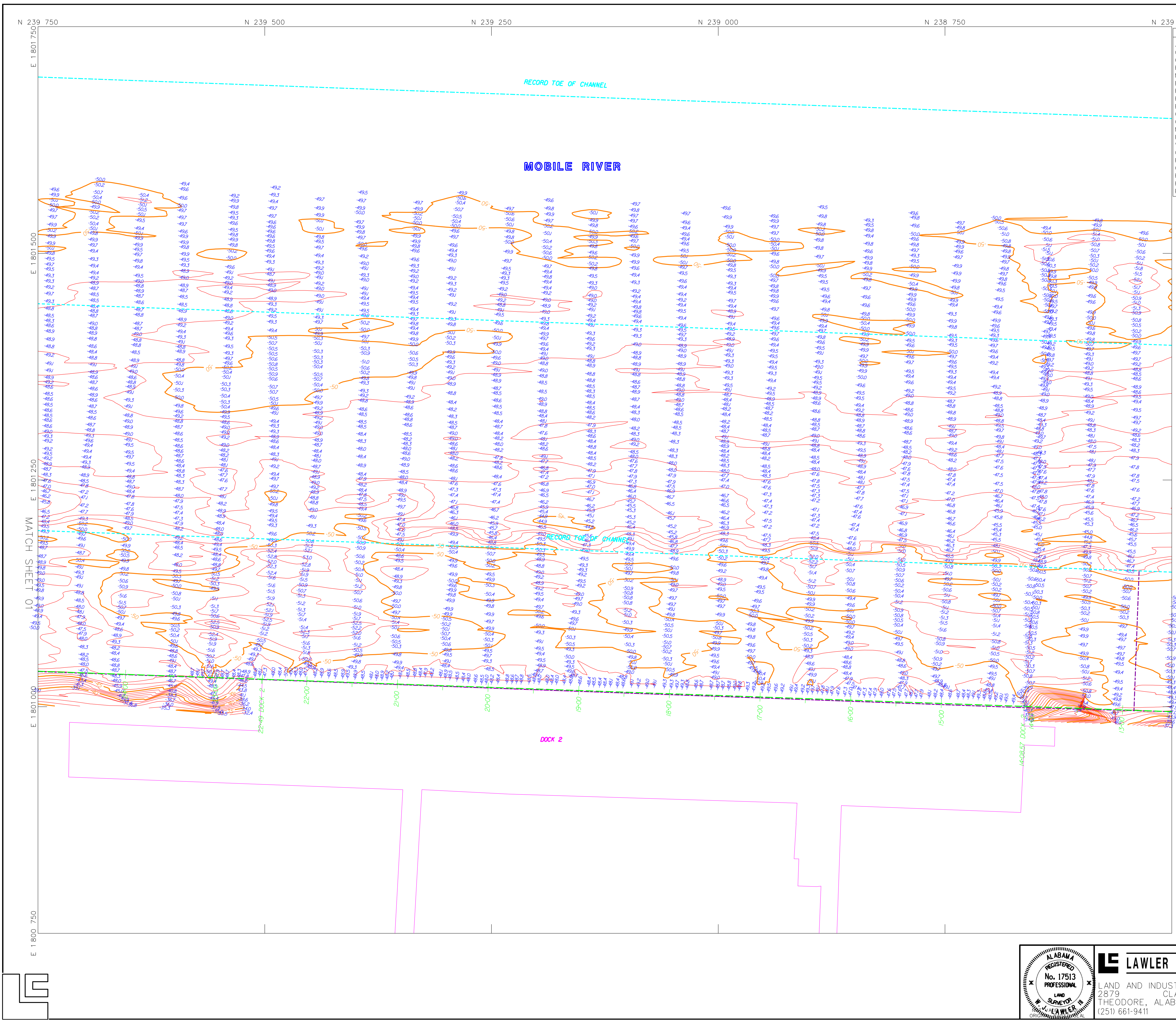


REVISIONS			

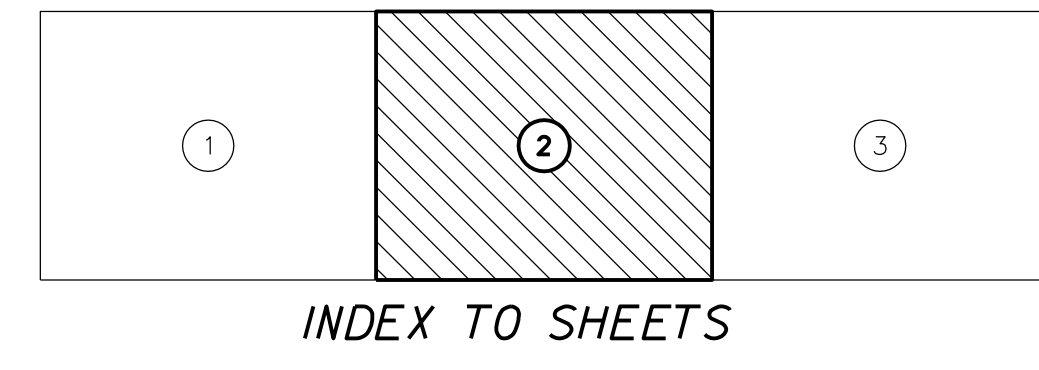
ALABAMA STATE PORT AUTHORITY			
McDUFFIE TERMINAL - MOBILE, ALABAMA			
POSTDREDGE HYDROGRAPHIC SURVEY DOCKS 1 & 2			
REF:	MAINTENANCE DREDGING INC.,--JUSTIN TASSIN		
DATE:	11 JUNE, 2024	SCALE:	1"=50'
SHEET	03 OF 03		
PROJ. NO.	24-071	DWG. No.	24-071-2



LAWLER AND COMPANY
 LAND AND INDUSTRIAL SURVEYORS
 2879 CLAUDIA LANE
 THEODORE, ALABAMA 36582
 (251) 661-9411 FAX (251) 661-9177



LEGEND		
ASPHALT	WATER VALVE	PARCEL BOUNDARY
CURB LINES	TELEPHONE BOX	ADJOINING PROPERTY
OVERHEAD LINES - ONE	UNKNOWN ELECTRICAL	SECTION LINE
FIBER OPTIC CABLE - FOC	STREET LIGHTS	SET BACK LINES
MCI TELEPHONE	POLES	EASEMENTS
BELLSOUTH LINES - BS7	GUY ANCHORS	SPOT ELEVATIONS
RAILROAD	TRANSFORMERS	INDEX CONTOURS
FENCES	ACCENT LIGHTS	CONTOURS
BUILDINGS	SHORELINES	TEMPORARY CONTROL POINT
CULVERTS	SIGNS	MONUMENTS
CATCH BASINS	DECIDUOUS TREES	IRON PINS & PIPES AS NOTED
MAN HOLES	GATE VALVE	RCP-REINFORCED CONCRETE PIPE
FIRE HYDRANT	AIR VALVE	ARCP-ARCHED REINFORCED CONCRETE PIPE
WATER METER	PIPE STUB	CTIF-CRIMP TOP IRON PIPE FOUND
GAS METER	SANITARY CLEAN OUT	REC-DEED RECORD DIMENSION
FIBER OPTIC CABLE	R/W-RIGHT OF WAY	ACT-ACTUAL FIELD MEASUREMENT
CABLE TV BOX	CMP-CORRUGATED METAL PIPE	CRF-CAPPED REBAR FOUND
ROOF DRAIN	CONC.-CONCRETE	IRF-IRON ROD (REBAR) FOUND
HANDICAP PARKING	A/C-CENTRAL HVAC UNIT	XF-SCRIBED X FOUND IN CONCRETE
PALM TREES	SEC.-GOVERNMENTAL SECTION	CMF-CONCRETE MONUMENT FOUND



MATERIAL QUANTITIES:
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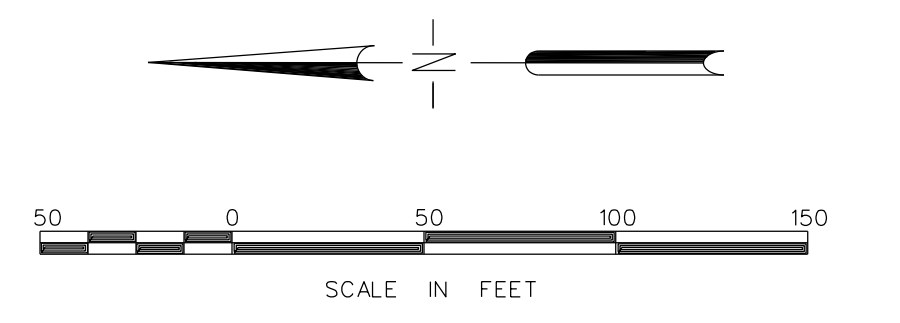
LOW FREQUENCY (24KHZ) DATA ALLOWS GREATER PENETRATION AND PRESENTS SOUNDINGS BENEATH SUSPENDED MATERIAL, BUT MAY ALSO PENETRATE INTO SOME MATERIALS AT A DEPTH GREATER THAN ACTUAL "HARD" BOTTOM. LOW FREQUENCY DATA IS PROVIDED FOR REFERENCE ONLY AND SHOULD NOT BE CONSIDERED "ACTUAL BOTTOM" WHEN INTERPRETING SOUNDING DATA. CAUTION IS ADVISED.

GENERAL NOTES:
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 HYDROGRAPHIC DATA COLLECTED WITH DIFFERENTIAL GPS BASED AUTOMATED SYSTEM MODELING AND CONTOURING ACCOMPLISHED WITH INROADS INSIDE MICROSTATION ECHOSOUNDER CALIBRATED ACCORDING TO USCOE PROCEDURES AND PRODUCED A SPEED OF SOUND CORRECTION OF 4996 MILLISECONDS
 DOCK 2 FIELD SURVEY COMPLETED ON 30 MAY, 2024
 DOCK 1 FIELD SURVEY COMPLETED ON 03 JUNE, 2024
 FILE: \AS\PA\MCDUFFIE\HYDRO-2024\24071-MCDUFFIE-POSTDREDGE-HYDRO-JUNE-2024.DGN

CERTIFICATION:
 I, W. J. LAWLER, II, A REGISTERED LAND SURVEYOR IN THE STATE OF ALABAMA, HEREBY CERTIFY THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

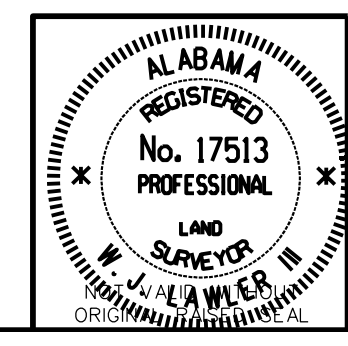
THIS 11th DAY OF JUNE, 2024

W. J. LAWLER, II PLS 17513

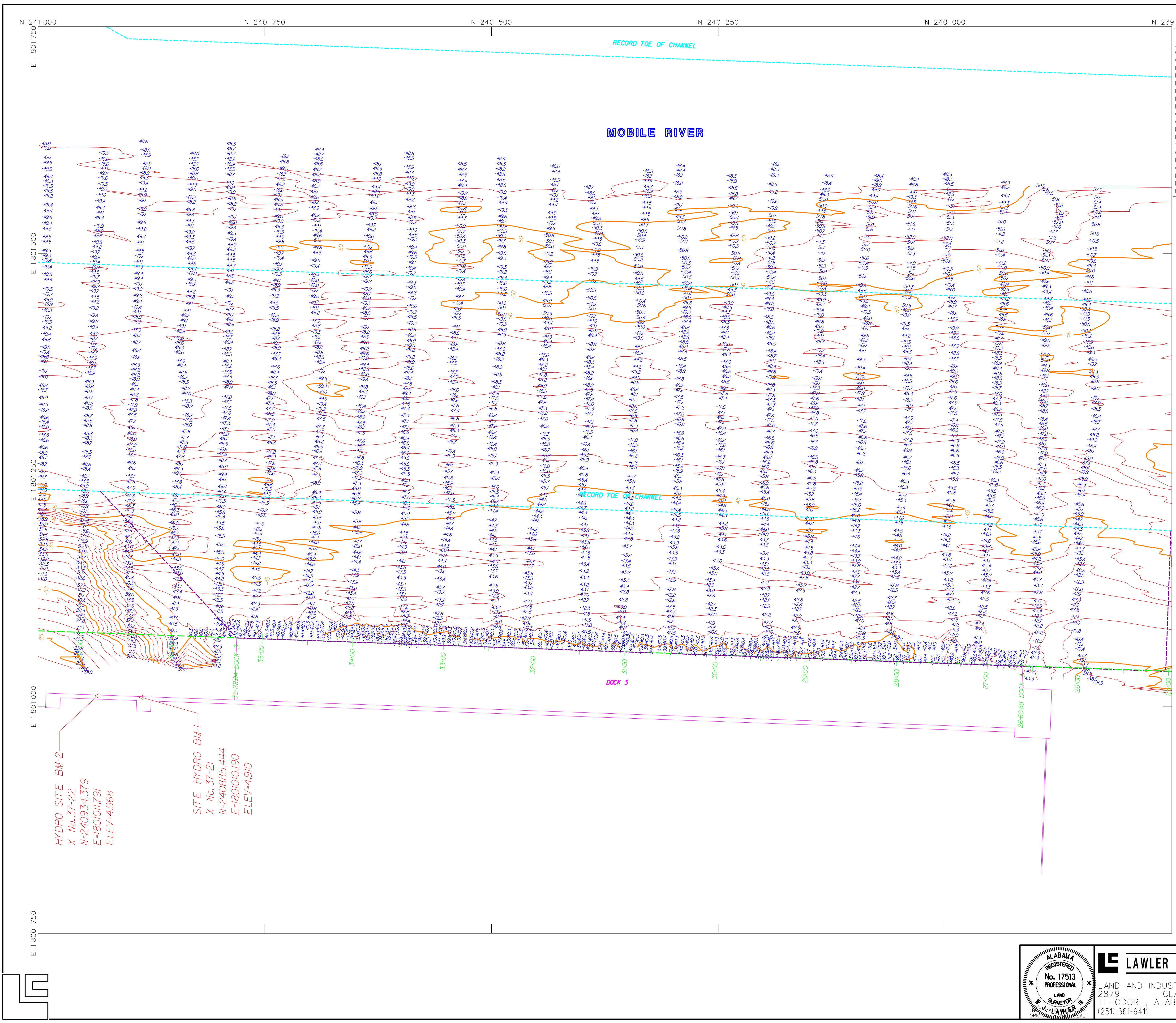


REVISIONS			

ALABAMA STATE PORT AUTHORITY			
McDUFFIE TERMINAL - MOBILE, ALABAMA			
POSTDREDGE HYDROGRAPHIC SURVEY DOCKS 1 & 2			
REF:	MAINTENANCE DREDGING INC.,--JUSTIN TASSIN		
DATE:	11 JUNE, 2024	SCALE:	1"=50'
SHEET:	02 OF 03	DWG. No.	24-071-2
PROJ. No.	24-071	DWG. No.	24-071-2

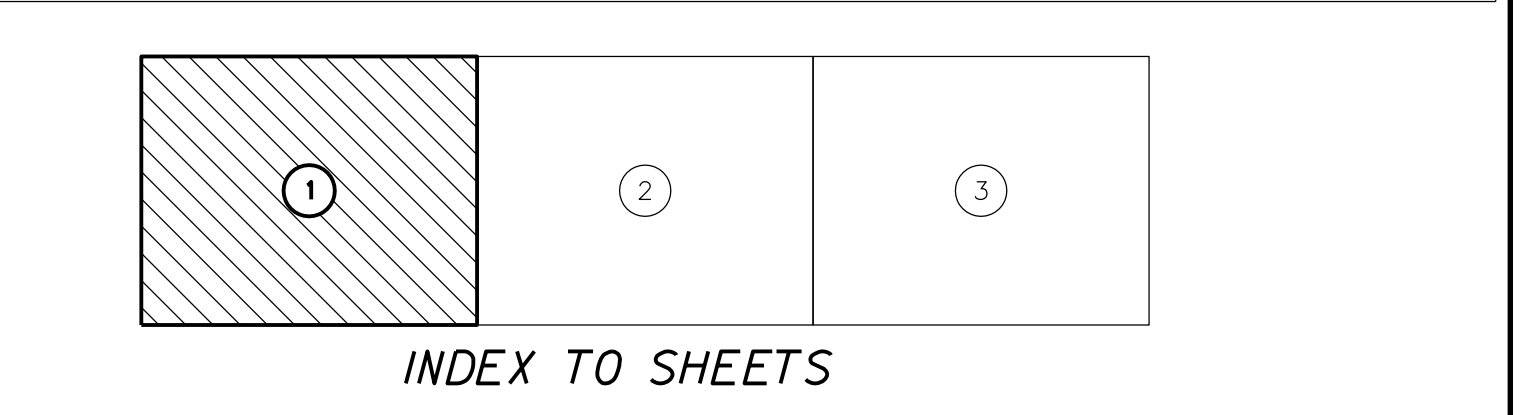


LAWLER AND COMPANY
 LAND AND INDUSTRIAL SURVEYORS
 CLAUDIA LANE
 THE ODORÉ, ALABAMA 36582
 (251) 661-9411 FAX (251) 661-9177



LEGEND

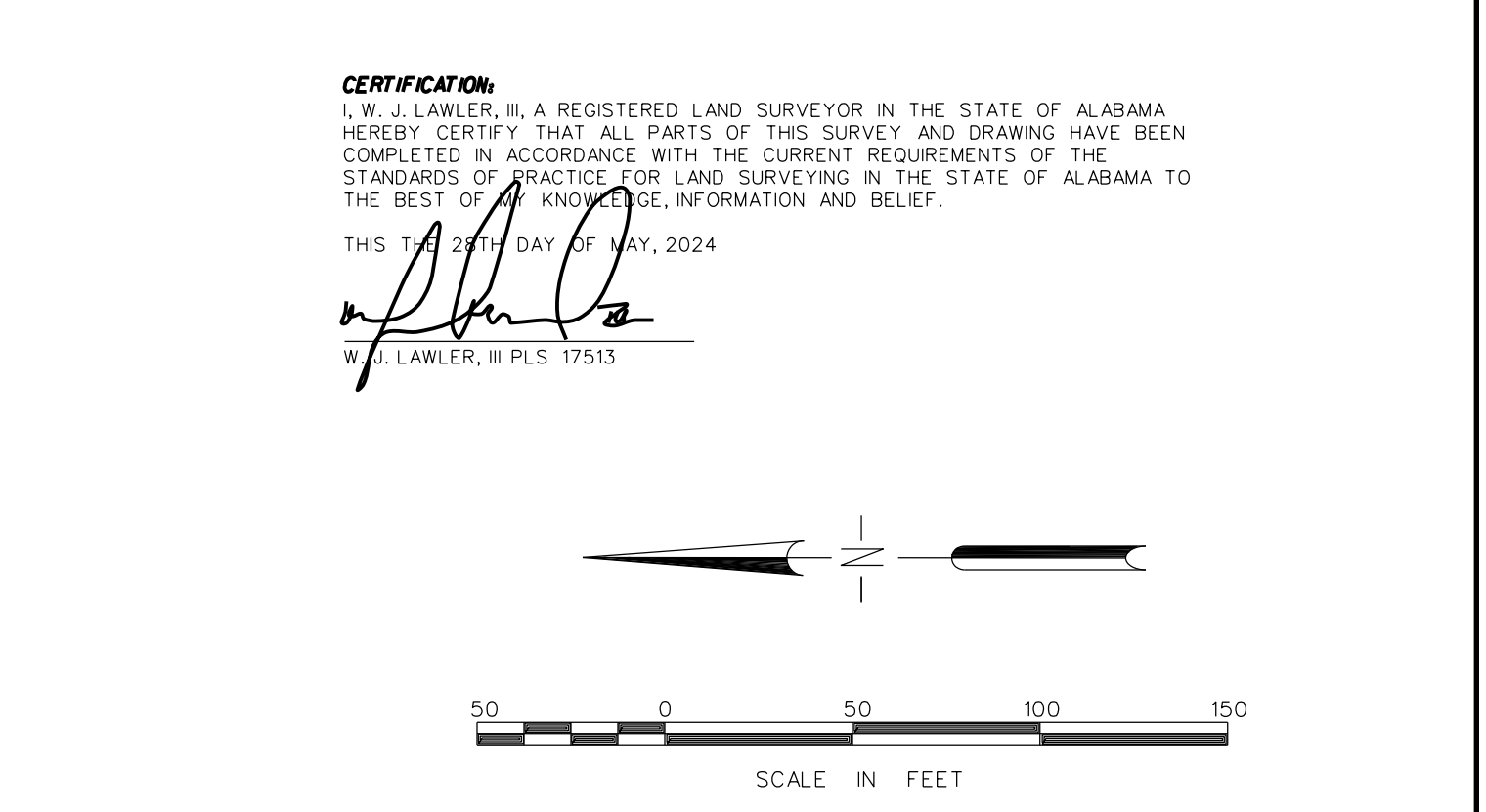
ASPHALT	WATER VALVE	PARCEL BOUNDARY
CURB LINES	TELEPHONE BOX	ADJOINING PROPERTY
OVERHEAD LINES	UNKNOWN ELECTRICAL	SECTION LINE
FIBER OPTIC CABLE	STREET LIGHTS	SET BACK LINES
MCI TELEPHONE	POLES	EASEMENTS
BELLSOUTH LINES	GUY ANCHORS	SPOT ELEVATIONS
RAILROAD	TRANSFORMERS	INDEX CONTOURS
FENCES	ACCENT LIGHTS	CONTOURS
BUILDINGS	SHORELINES	TEMPORARY CONTROL POINT
CULVERTS	SIGNS	MONUMENTS
CATCH BASINS	DECIDUOUS TREES	IRON PINS & PIPES AS NOTED
MAN HOLES	GATE VALVE	RCP-REINFORCED CONCRETE PIPE
FIRE HYDRANT	AIR VALVE	ARCP-ARCHED REINFORCED CONCRETE PIPE
WATER METER	PIPE STUB	CTIF-CRIMP TOP IRON PIPE FOUND
GAS METER	SANITARY CLEAN OUT	REC-DEED RECORD DIMENSION
FIBER OPTIC CABLE	R/W-RIGHT OF WAY	ACT-ACTUAL FIELD MEASUREMENT
CABLE TV BOX	CMP-CORRUGATED METAL PIPE	CRF-CAPPED REBAR FOUND
ROOF DRAIN	CONC.-CONCRETE	IRF-IRON ROD (REBAR) FOUND
HANDICAP PARKING	A/C-CENTRAL HVAC UNIT	XF-SCRIBED X FOUND IN CONCRETE
PALM TREES	SEC.-GOVERNMENTAL SECTION	CMF-CONCRETE MONUMENT FOUND



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 DOCK 3 FIELD SURVEY COMPLETED ON 29 APRIL, 2024
 DOCK 1 FIELD SURVEY COMPLETED ON 01 MAY, 2024
 DOCK 2 FIELD SURVEY COMPLETED ON 04 MAY, 2024
 FILE: \ASPA\MCDUFFIE\HYDRO-2024\24031\MCDUFFIE-HYDRO-5-1-24.DGN

CERTIFICATION:
 I, W. J. LAWLER, II, A REGISTERED LAND SURVEYOR IN THE STATE OF ALABAMA HEREBY CERTIFY THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.
 THIS 27th DAY OF MAY, 2024
 W. J. LAWLER, III PLS 17513



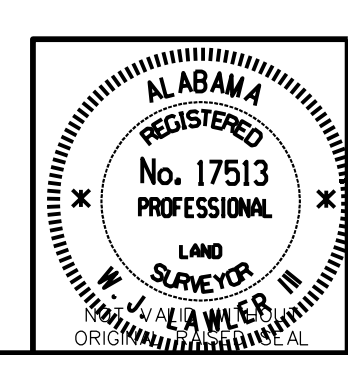
REVISIONS

ALABAMA STATE PORT AUTHORITY
 McDUFFIE TERMINAL - MOBILE, ALABAMA
 HYDROGRAPHIC SURVEY DOCKS 1 & 3

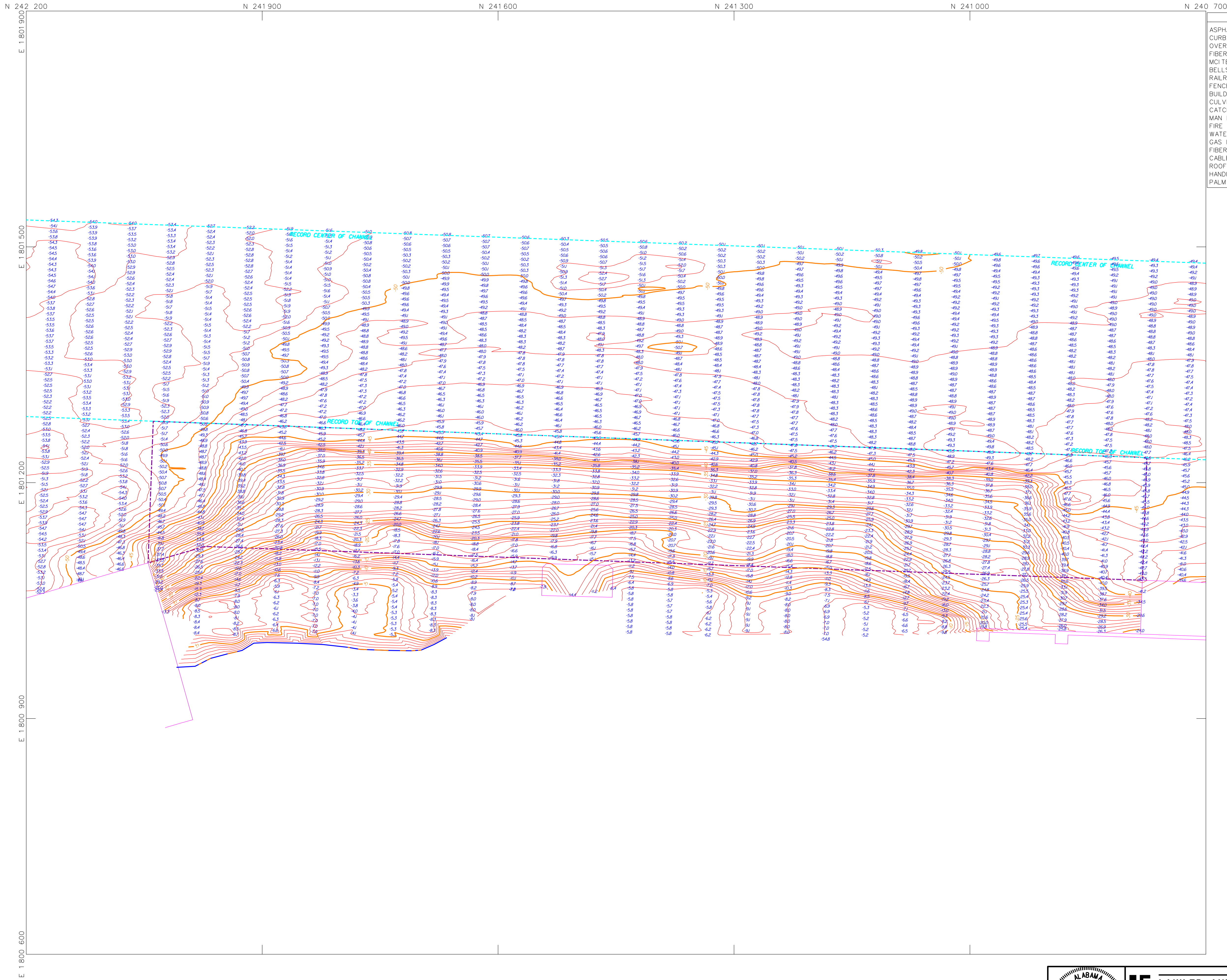
REF: ASPA--JOSH BELL

DATE: 28 MAY, 2024 SCALE: 1"=50' SHEET 01 OF 03

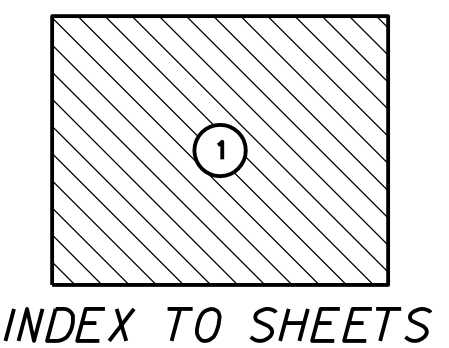
PROJ. NO. 24-031 DWG. No. 24-031-1



LAWLER AND COMPANY
 LAND AND INDUSTRIAL SURVEYORS
 2879 CLAUDIA LANE
 THEODORE, ALABAMA 36582
 (251) 661-9411 FAX (251) 661-9177



LEGEND		
ASPHALT	WATER VALVE	PARCEL BOUNDARY
CURB LINES	TELEPHONE BOX	ADJOINING PROPERTY
OVERHEAD LINES	UNKNOWN ELECTRICAL	SECTION LINE
FIBER OPTIC CABLE - FOC	STREET LIGHTS	SET BACK LINES
MCI TELEPHONE	POLES	EASEMENTS
BELLSOUTH LINES - BS7	GUY ANCHORS	SPOT ELEVATIONS
RAILROAD	TRANSFORMERS	INDEX CONTOURS
FENCES	ACCENT LIGHTS	CONTOURS
BUILDINGS	SHORELINES	TEMPORARY CONTROL POINT
CULVERTS	SIGNS	MONUMENTS
CATCH BASINS	DECIDUOUS TREES	IRON PINS & PIPES AS NOTED
MAN HOLES	GATE VALVE	RCP-REINFORCED CONCRETE PIPE
FIRE HYDRANT	AIR VALVE	ARCP-ARCHED REINFORCED CONCRETE PIPE
WATER METER	PIPE STUB	CTIF-CRIMP TOP IRON PIPE FOUND
GAS METER	SANITARY CLEAN OUT	REC-DEED RECORD DIMENSION
FIBER OPTIC CABLE	R/W-RIGHT OF WAY	ACT-ACTUAL FIELD MEASUREMENT
CABLE TV BOX	CMP-CORRUGATED METAL PIPE	CRF-CAPPED REBAR FOUND
ROOF DRAIN	CONC.-CONCRETE	IRF-IRON ROD (REBAR) FOUND
HANDICAP PARKING	A/C-CENTRAL HVAC UNIT	XF-SCRIBED X FOUND IN CONCRETE
PALM TREES	SEC.-GOVERNMENTAL SECTION	CMF-CONCRETE MONUMENT FOUND



SYSTEM CALIBRATION STATEMENT:
 HYDROGRAPHIC SYSTEM CALIBRATED USING "PATCH TEST" PROCEDURES FOR A DUAL HEAD MULTIBEAM SONAR.
 SOUND VELOCITY CORRECTIONS OF ENTIRE WATER COLUMN ACQUIRED USING TELETYPE DIGIBAR SOUND VELOCITY PROBE.

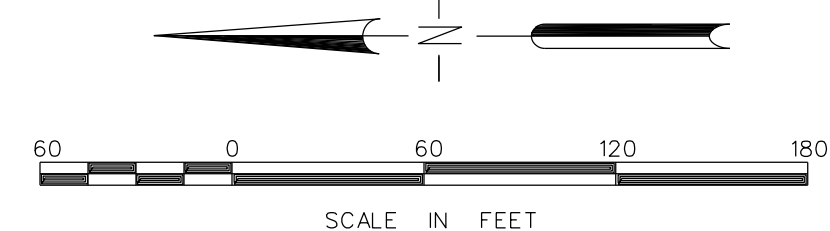
DREDGE QUANTITIES:
 BASED ON SURVEY DATED 5-15-24, DREDGE MATERIAL QUANTITIES ARE AS FOLLOWS:
 QUANTITIES SHOWN AS "IN PLACE" CUBIC YARDS WITH 3:1 SIDE SLOPES.
 ORIGINAL QUANTITY CALCULATIONS:
 TARGET ELEVATION - 50.0: CUT 177174 CUBIC YARDS
 TARGET ELEVATION - 52.0: CUT 198668 CUBIC YARDS
 TARGET ELEVATION - 54.0: CUT 220289 CUBIC YARDS

GENERAL NOTES:
 300 FOOT GRID BASED ON ALABAMA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83 (1992).
 ONE FOOT CONTOUR INTERVAL BASED ON MLLW, 1929.
 TOP OF DOCK ELEVATION 14.52 NAVD 88 TO CONVERT MLLW TO NAVD 1988, SUBTRACT 0.49 FROM MLLW.
 FACE OF DOCK & OVERBANK INFORMATION TAKEN FROM PREVIOUS SURVEY BY THIS FIRM.
 HYDROGRAPHIC DATA COLLECTED WITH HYDRACK USING RTK GPS POSITION PAIRED WITH PING DPS MULTIBEAM SONAR.
 FIELD SURVEY COMPLETED 15 MAY, 2024.
 FILE: \\gsp\ASPA\CHGCT\AW24066-APM-EXPANSION-HYDRO-5-15-24.DGN

CERTIFICATION:
 I, W. J. LAWLER, III, A REGISTERED LAND SURVEYOR IN THE STATE OF ALABAMA, HEREBY CERTIFY THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

THIS THE 15TH DAY OF MAY, 2024

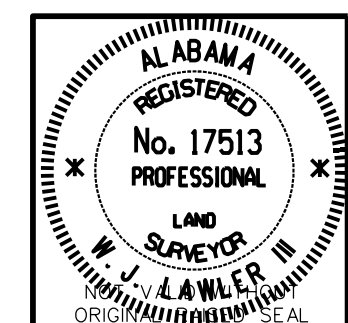
W. J. Lawler, III
 W. J. LAWLER, III PLS 17513



REVISIONS	

ALABAMA STATE PORT AUTHORITY
 APMT MOBILE CONTAINER TERMINAL
 PROPOSED EXPANSION HYDROGRAPHIC SURVEY

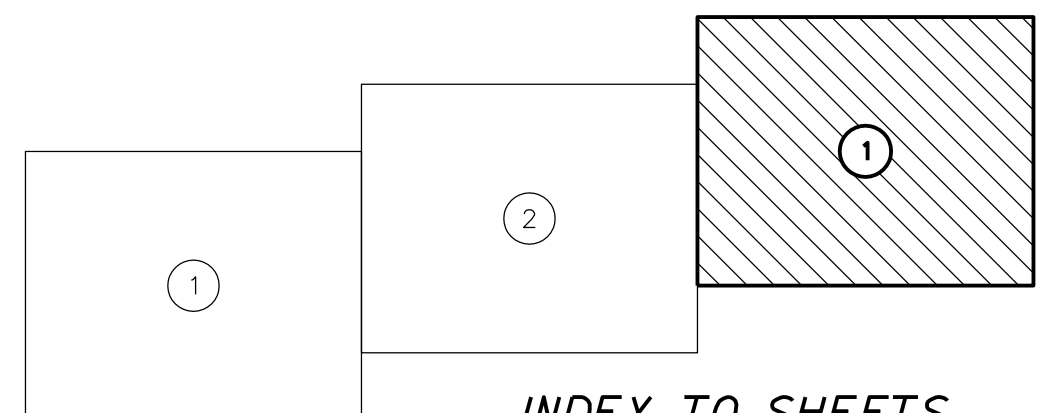
REF:	ASPA--MARCUS COLEMAN
DATE:	21 MAY, 2024
SCALE:	1"=60'
SHEET:	01 OF 01
PROJ. NO.	24-066
DWG. No.	24-066-1



LAWLER AND COMPANY
 LAND AND INDUSTRIAL SURVEYORS
 2879 CLAUDIA LANE
 THE ODORRE, ALABAMA 36582
 (251) 661-9411 FAX (251) 661-9177



LEGEND	
ASPHALT	WATER VALVE
CURB LINES	TELEPHONE BOX
OVERHEAD LINES	UNKNOWN ELECTRICAL
FIBER OPTIC CABLE	STREET LIGHTS
MCI TELEPHONE	POLES
BELLSOUTH LINES	GUY ANCHORS
RAILROAD	TRANSFORMERS
FENCES	ACCENT LIGHTS
BUILDINGS	SHORELINES
CULVERTS	SIGNS
CATCH BASINS	DECIDUOUS TREES
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FIRE HYDRANT	AIR VALVE
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GAS METER	SANITARY CLEAN OUT
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	CONTOURS
	TEMPORARY CONTROL POINT
	MONUMENTS
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	A/X-CENTRAL HVAC UNIT
	CMF-CONCRETE MONUMENT FOUND



ECHOSOUNDER FREQUENCY STATEMENT:
 THIS SURVEY WAS COMPLETED USING ODOM E20 DUAL FREQUENCY ECHOSOUNDER WITH A DUAL FREQUENCY TRANSDUCER HAVING TRANSMIT FREQUENCIES OF 200 & 24 KZ. HIGH FREQUENCY (200KZ) DATA PROVIDES A "FIRST RETURN" SOUNDING, WHICH CAN POTENTIALLY REPRESENT SUSPENDED MATERIAL LAYERS INSTEAD OF TRUE BOTTOM.
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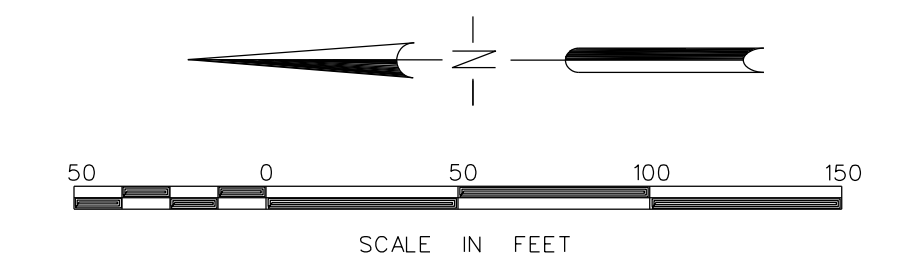
DREDGE QUANTITIES:
 BASED ON SURVEY DATED 11-28-23, DREDGE MATERIAL QUANTITIES ARE AS FOLLOWS:
 QUANTITIES SHOWN AS "IN PLACE" CUBIC YARDS WITH 3:1 SIDE SLOPES
 ORIGINAL QUANTITY CALCULATIONS:
 TARGET ELEVATION -47.0: CUT 857 CUBIC YARDS
 TARGET ELEVATION -48.0: CUT 1567 CUBIC YARDS
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 FACE OF DOCK & OVERBANK INFORMATION TAKEN FROM PREVIOUS SURVEY BY THIS FIRM.
 HYDROGRAPHIC DATA COLLECTED WITH DIFFERENTIAL GPS BASED AUTOMATED SYSTEM MODELING AND CONTOURING ACCOMPLISHED WITH INROADS INSIDE MICROSTATION FIELD SURVEY COMPLETED 24 APRIL, 2024.
 FILE: \\gpr\ASPA\CHGCTAW\24033-APM-PREDREDGE-APRIL-2024.DGN

CERTIFICATION:
 I, W. J. LAWLER, III, A REGISTERED LAND SURVEYOR IN THE STATE OF ALABAMA HEREBY CERTIFY THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

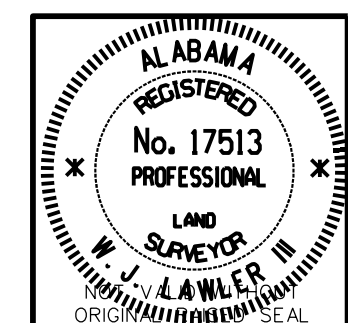
THIS THE 6TH DAY OF MAY, 2024

 W. J. LAWLER, III PLS 17513

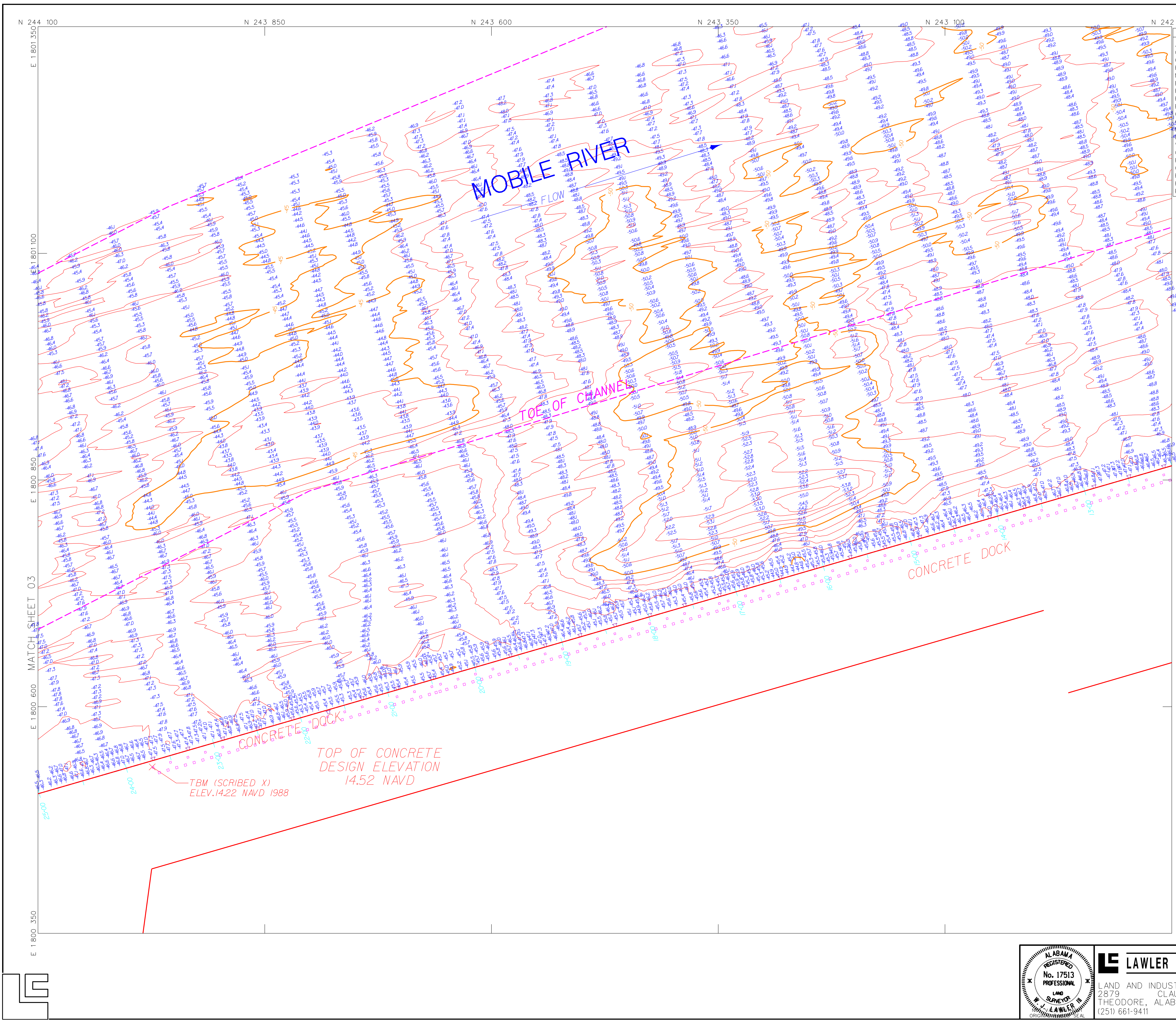


REVISIONS			

ALABAMA STATE PORT AUTHORITY			
APMT MOBILE CONTAINER TERMINAL			
SHIP BERTH PRE-DREDGE HYDROGRAPHIC SURVEY			
REF:	ASPA-MARCUS COLEMAN		
DATE:	06 MAY, 2024	SCALE:	1"=50'
PROJ. NO.	24-033	DWG. No.	24-033-1
		SHEET	01 OF 03

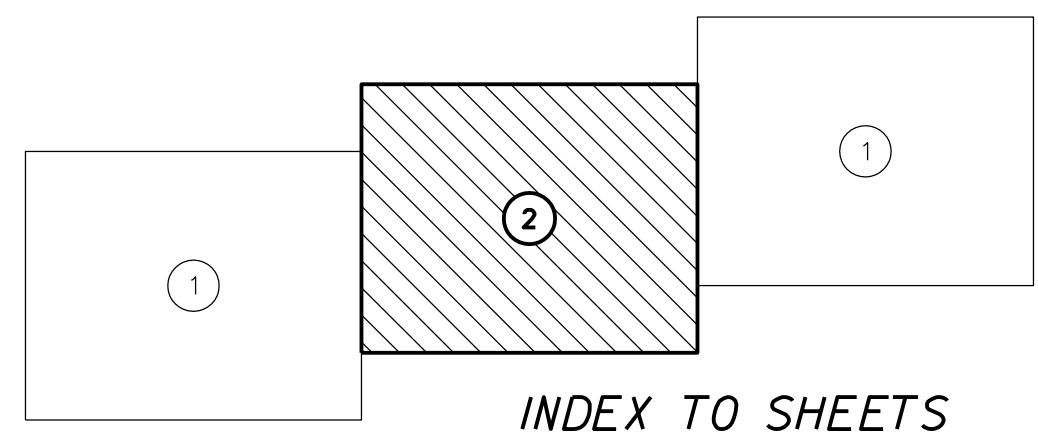


LAWLER AND COMPANY
 LAND AND INDUSTRIAL SURVEYORS
 2879 CLAUDIA LANE
 THEODORE, ALABAMA 36582
 (251) 661-9411 FAX (251) 661-9177



LEGEND

ASPHALT	WATER VALVE	PARCEL BOUNDARY
CURB LINES	TELEPHONE BOX	ADJOINING PROPERTY
OVERHEAD LINES - ONE	UNKNOWN ELECTRICAL	SECTION LINE
FIBER OPTIC CABLE - FOC	STREET LIGHTS	SET BACK LINES
MCI TELEPHONE	POLES	EASEMENTS
BELLSOUTH LINES - BS7	GUY ANCHORS	SPOT ELEVATIONS
FENCES	TRANSFORMERS	INDEX CONTOURS
BUILDINGS	ACCENT LIGHTS	CONTOURS
CULVERTS	SHORELINES	TEMPORARY CONTROL POINT
CATCH BASINS	DECIDUOUS TREES	MONUMENTS
MAN HOLES	GATE VALVE	IRON PINS & PIPES AS NOTED
FIRE HYDRANT	AIR VALVE	RCP-REINFORCED CONCRETE PIPE
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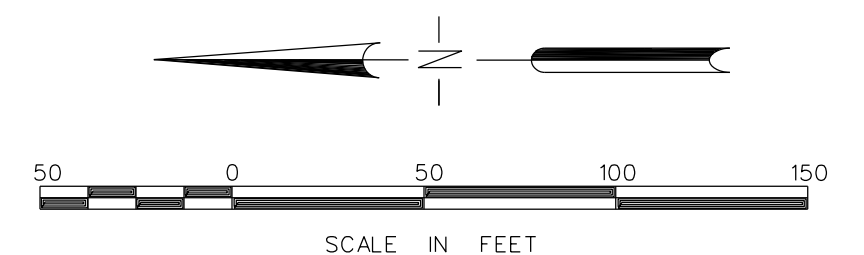


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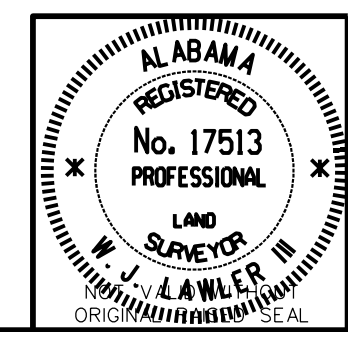
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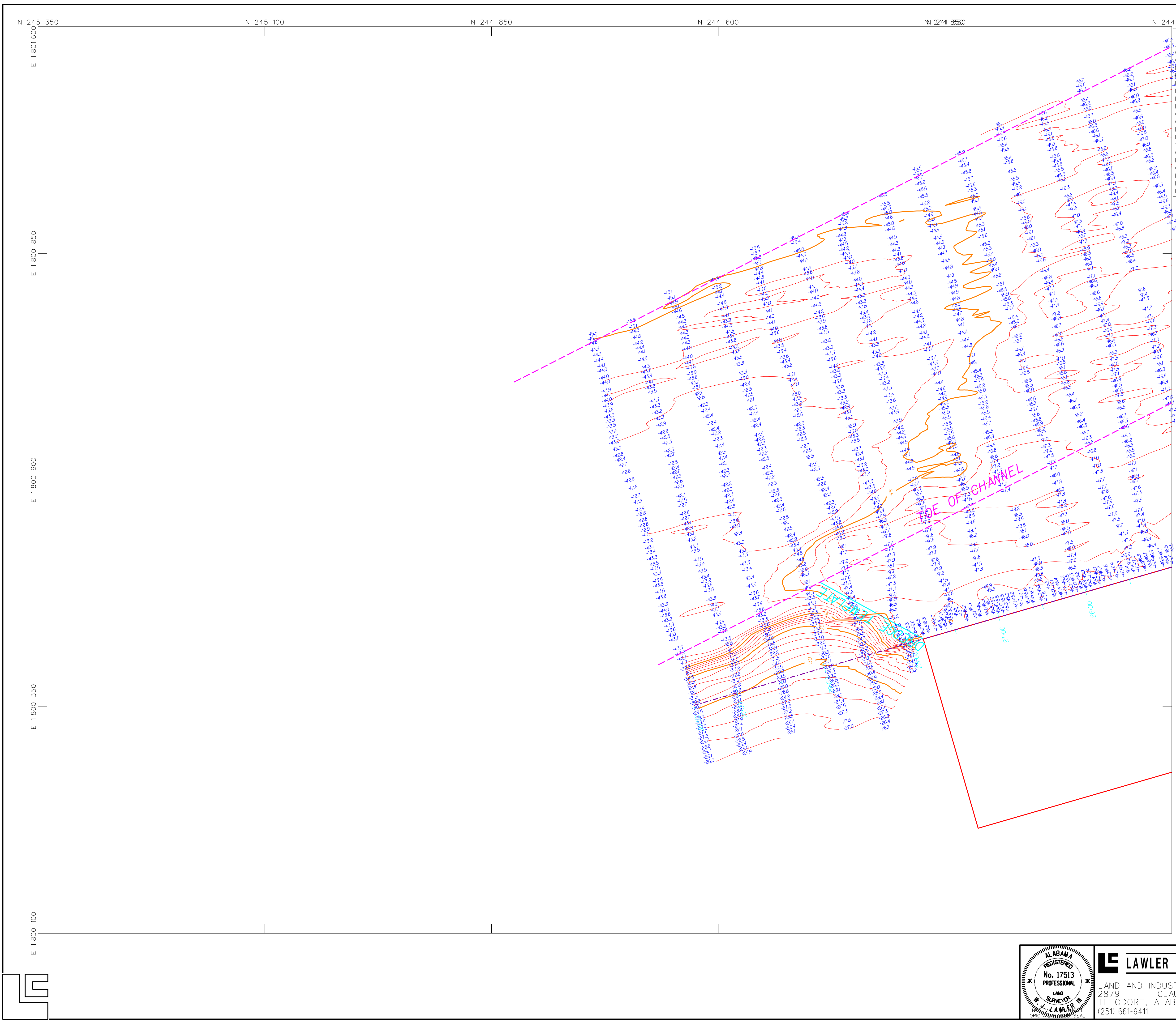
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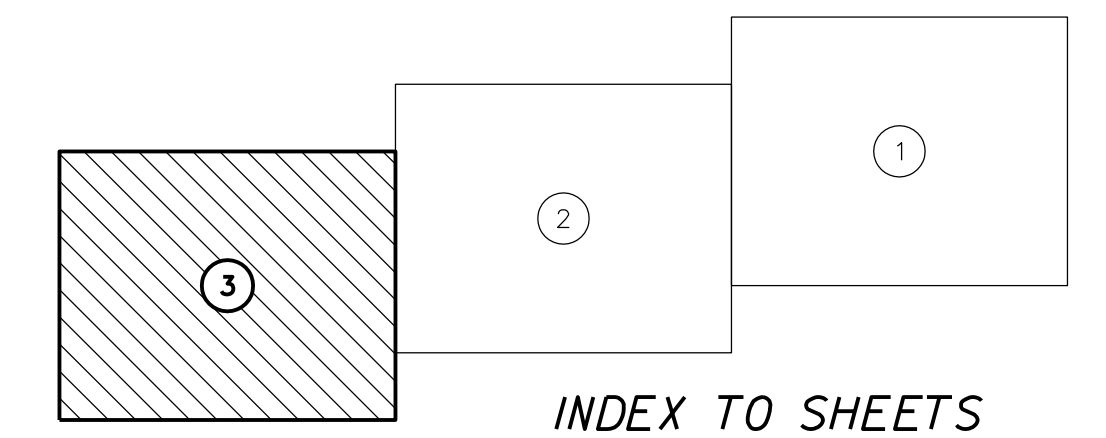
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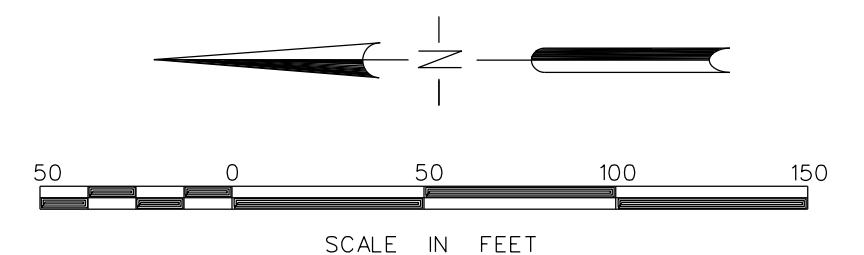


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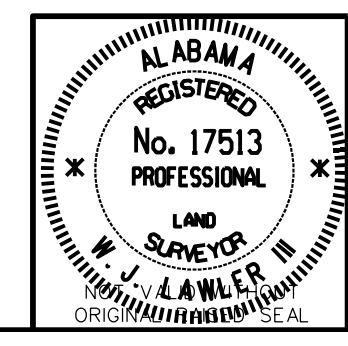
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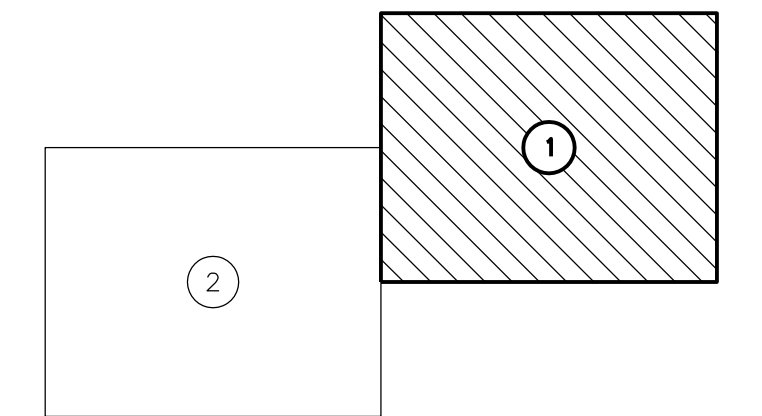


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LEGEND

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OVERHEAD LINES - ONE	UNKNOWN ELECTRICAL	SECTION LINE
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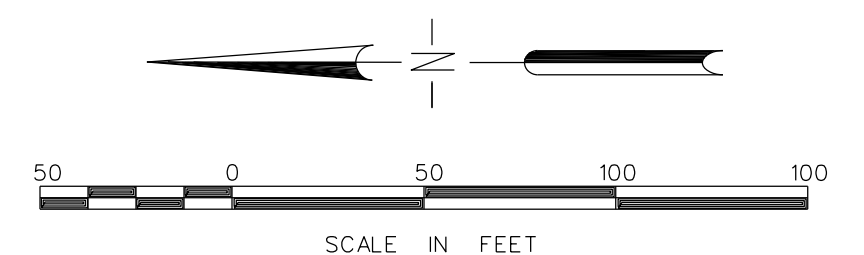
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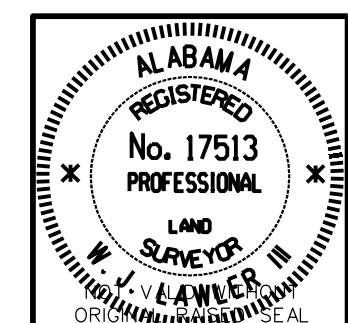
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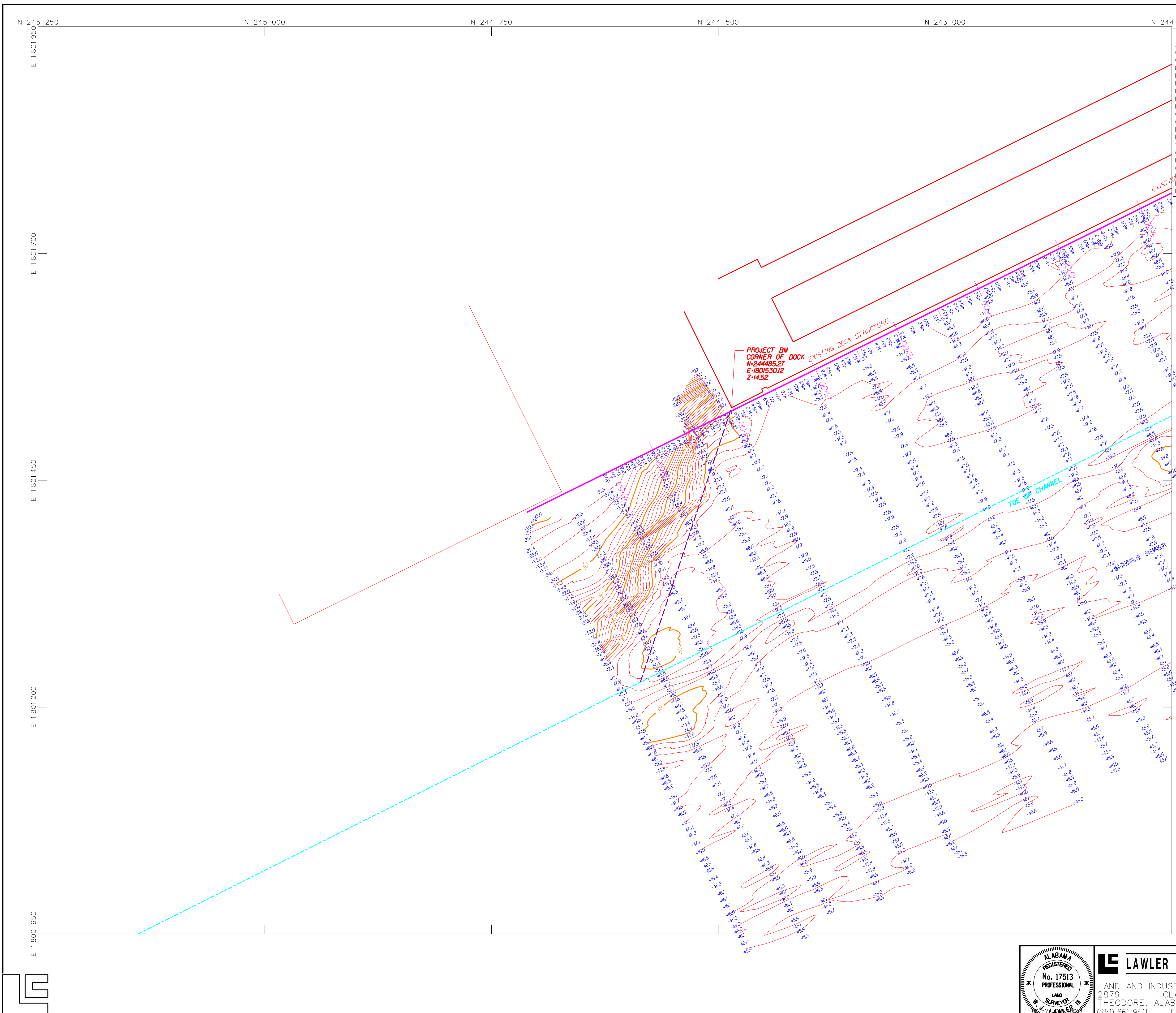
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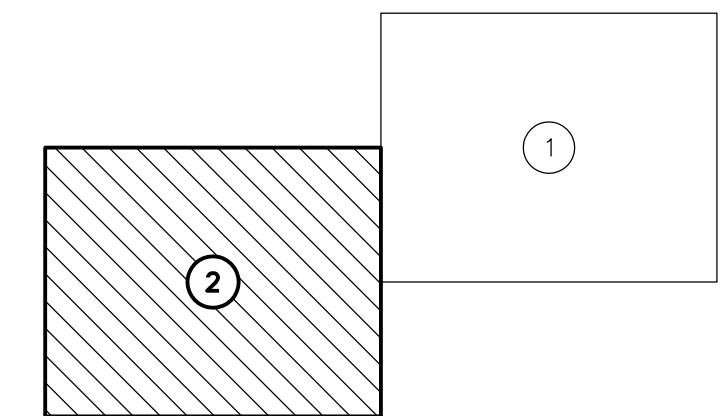
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PINTO ISLAND TERMINAL SHIP BERTH HYDROGRAPHIC SURVEY			
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CURB LINES	TELEPHONE BOX
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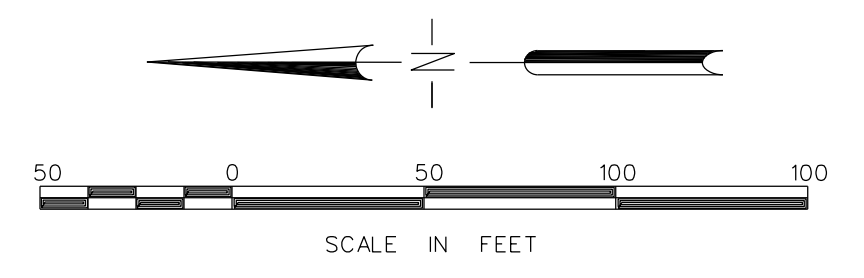
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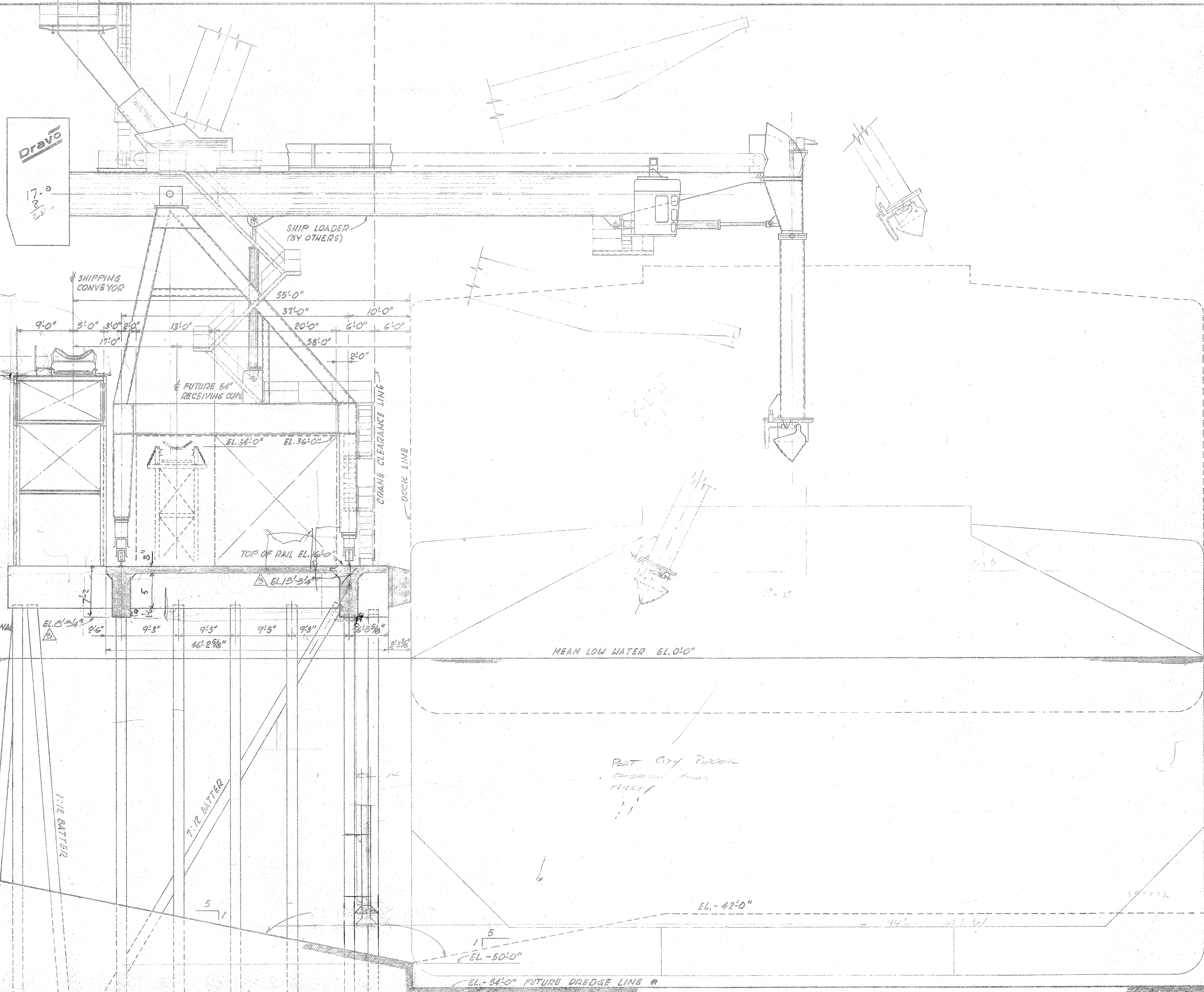
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APPENDIX D
REFERENCE DRAWINGS

4/18/77
-50'



EL. 49'-0"
EL. 46'-0"
EL. 14'-0" APPROXIMATE SEASONAL TIDAL RANGE
EL. -1'-0"

MEAN LOW WATER EL. 0'-0"

Part City Harbor
Construction Area
FIELD

* INCLUDES 2' OVERDREDGE AND 2' ADVANCE MAINTENANCE

TYPICAL SECTION
SCALE 1/8" = 1'-0"

	ENGINEER'S SEAL	DRAWN R.H.	ALABAMA STATE DOCKS McDUFFIE TERMINALS SHIP LOADING FACILITY TYPICAL SECTION HOUSTON, TEXAS	DATE 2-5-78
	CHECKED N.M.S.	REVISOR		APPROVED R.L. Reid
	REVISOR BA-17-73	REVISIONS		SHEET 62
	R.L. Reid Consulting Engineers			

DATE: **7-18-94** WOH = Weight of Hammer WOR = Weight of Rod US = Undisturbed Sample

SAMPLE NO.	DEPTH (FT) FROM TO	TYPE SPT US	FIELD SOILS CLASSIFICATION	UNIFIED SYMBOL	% REC'D	BLOWS/FT		
						1st	2nd	3rd
1	-34.1 -35.6	X	Very Loose Black SILT	ML	95	W	O	R
2	-39.1 -40.6	X	Very Loose Black SILT, Trace Gray Silty Sand	ML	95	W	O	R
3	-44.1 -45.6	X	Very Loose Black SILT, Trace Gray Silty Sand	ML	90	W	O	R
4	-49.1 -50.6	X	Very Loose Black SILT, Trace Gray Silty Sand	ML	90	W	O	R
5	-57.6 -59.1	X	Firm Tan SAND, Trace Pea Gravel	SP	75	2	6	7
6	-62.6 -64.1	X	Firm Tan SAND, Trace Pea Gravel	SP	75	5	10	10
7	-67.6 -69.1	X	Firm Tan SAND, Trace Pea Gravel	SP	75	3	4	6
8	-72.6 -74.1	X	Dense Gray SAND	SP	80	18	18	19
9	-77.6 -79.1	X	Dense Gray SAND	SP	80	19	21	19
10	-82.6 -84.1	X	Very Dense Gray & Tan SAND, Trace Pea Gravel	SP	80	14	28	30
11	-87.6 -89.1	X	Very Dense Tan SAND, Trace Pea Gravel	SP	80	15	28	27
12	-92.6 -94.1	X	Very Dense Tan Coarse To Medium SAND, Trace Gravel	SP	90	12	21	35
13	-97.6 -99.1	X	Firm Tan Coarse To Medium SAND	SP	80	8	10	13
14	-102.6 -104.1	X	Very Dense Tan Coarse To Medium SAND	SP	75	18	31	25
15	-107.6 -109.1	X	Firm Tan Coarse To Fine SAND, Trace Gravel	SP	80	2	9	15
16	-112.6 -114.1	X	Soft Gray Sandy CLAY (0-1.0')/ Firm Fine Gray SAND	CL SP-SM	95	2	4	21
17	-117.6 -119.1	X	Very Dense Gray Coarse To Fine SAND	SP	75	11	32	50 For 4"
18	-122.6 -124.1	X	Very Dense Gray Coarse To Fine SAND	SP	70	19	26	34
19	-127.6 -129.0	X	Very Dense Gray Coarse To Fine SAND, 1" Lense Pea Gravel	SP	75	24	44	50 For 5"

Notes to Boring: 1. Set 53' Of 4" Casing 2. Boring Located = 415 Feet South of Dock.

DRILL RIG: Barge Mounted Drill Rig TOTAL % RECOVERY **82**

DRILL METHOD: AUGER: FROM: TO: DATE: 7-18-94 DATE: 7-18-94 TIME: 8:30 AM TIME: 11:00 AM NOTE: Number of Blows of 140 lb. Hammer Falling 30" to Drive a 2" O.D. Splitspoon Sampler.

Log Notes:
1.) Set Five (5) Feet of 4 Inch Steel Casing
2.) Water Depth at Time of Drilling = -1.5 Feet

DATE: **7-20-94** WOH = Weight of Hammer WOR = Weight of Rod US = Undisturbed Sample

SAMPLE NO.	DEPTH (FT) FROM TO	TYPE SPT US	FIELD SOILS CLASSIFICATION	UNIFIED SYMBOL	% REC'D	BLOWS/FT		
						1st	2nd	3rd
1	-39.8 -41.3	X	Very Loose Black SILT	ML	100	W	O	R
2	-44.8 -46.3	X	Very Loose Black SILT	ML	100	W	O	R
3	-49.8 -51.3	X	Very Loose Black SILT	ML	100	W	O	R
4	-56.8 -58.3	X	Firm Gray Fine To Medium SAND, Trace Gravel	SP	75	3	5	11
5	-61.8 -63.3	X	Firm Gray Coarse To Fine SAND, Trace Gravel	SP	55	7	7	10
6	-66.8 -68.3	X	Firm Gray Coarse To Fine SAND	SP	60	3	5	8
7	-71.8 -73.3	X	Firm Gray Coarse To Fine SAND	SP	70	7	8	10
8	-76.8 -78.3	X	Firm Tan Fine SAND, Lense Tan Sandy Clay	SP	50	10	15	17
9	-81.8 -83.3	X	Dense Tan Fine To Coarse SAND	SP	70	14	22	19
10	-86.8 -88.3	X	Dense Tan Fine To Coarse SAND	SP	70	12	16	17
11	-91.8 -93.3	X	Very Dense Tan Fine To Medium SAND	SP	60	13	24	36
12	-96.8 -98.3	X	Stiff Gray CLAY, Trace Organics (Clay Encountered at -94.8)	CH	60	3	4	5
	-99.8 -101.6	X	Attempt Thin Wall Tube, No Recovery		0	PUSH		1.8'
13	-101.8 -103.3	X	Very Stiff Gray CLAY, Trace Organics	CH	95	6	7	9
14	-106.8 -108.3	X	Very Stiff Gray CLAY, Trace Organics	CH	95	8	6	9
15	-111.8 -113.3	X	Stiff Gray Sandy CLAY, Lenses Fine Sand	CL	80	5	6	8
16	-116.8 -118.3	X	Very Dense Gray Fine To Coarse SAND (Sand Encountered at -114.3)	SP	60	11	22	37
17	-126.8 -128.3	X	Dense Gray Fine To Coarse SAND	SP	75	13	19	19

Notes to Boring: 1. Set 63' Of 4" Casing 2. Boring Located = 195' South of Dock

DRILL RIG: Barge Mounted Drill Rig TOTAL % RECOVERY **71**

DRILL METHOD: AUGER: FROM: TO: DATE: 7-20-94 DATE: 7-21-94 TIME: 1:30 TIME: 3:30 NOTE: Number of Blows of 140 lb. Hammer Falling 30" to Drive a 2" O.D. Splitspoon Sampler.

Log Notes:
1.) Set Five (5) Feet of 4 Inch Steel Casing
2.) Water Depth at Time of Drilling = -1.5 Feet

DATE: **7-19-94** WOH = Weight of Hammer WOR = Weight of Rod US = Undisturbed Sample

SAMPLE NO.	DEPTH (FT) FROM TO	TYPE SPT US	FIELD SOILS CLASSIFICATION	UNIFIED SYMBOL	% REC'D	BLOWS/FT		
						1st	2nd	3rd
1	-39.5 -41.0	X	Very Loose Black SILT	ML	60	W	O	R
2	-44.5 -46.0	X	Very Loose Black SILT	ML	70	W	O	R
3	-49.5 -51.0	X	Very Loose Black SILT	ML	60	W	O	R
4	-54.5 -56.0	X	WOOD		70	15	7	3
5	-61.5 -63.0	X	Firm Gray Fine To Medium SAND	SP	60	7	9	10
6	-66.5 -68.0	X	Firm Gray Fine To Medium SAND	SP	60	7	11	16
7	-71.5 -73.0	X	Firm Gray Coarse To Fine SAND	SP	75	7	12	17
8	-77.0 -78.5	X	Dense Gray Fine To Coarse SAND	SP	70	8	15	16
9	-82.0 -83.5	X	Firm Gray Fine To Coarse SAND, Trace Pea Gravel	SP	55	7	8	11
10	-87.0 -88.5	X	Dense Gray Fine To Coarse SAND	SP	60	10	16	24
11	-92.0 -93.5	X	Dense Gray & Tan Fine To Coarse SAND, Trace Pea Gravel	SP	70	9	13	20
12	-97.0 -98.5	X	Stiff Gray Sandy CLAY	CL	90	3	5	7
	-102.0 -103.5	X	Attempt Thin Wall Tube, No Recovery		0	PUSH		2'
	-104.0 -106.0	X	Attempt Thin Wall Tube, No Recovery		0	PUSH		2'
13	-106.0 -107.5	X	Very Stiff Gray CLAY, Trace Organics	CH	95	4	8	10
14	-112.0 -113.5	X	Stiff Gray Sandy CLAY, Lenses Fine Sand	CL	75	3	5	9
15	-117.0 -118.5	X	Dense Gray Coarse To Medium SAND	SP	80	4	13	19
16	-122.0 -123.5	X	Very Dense Gray Coarse To Medium SAND	SP	50	15	26	28
17	-127.0 -128.5	X	Dense Gray Fine To Medium SAND	SP	65	11	10	24

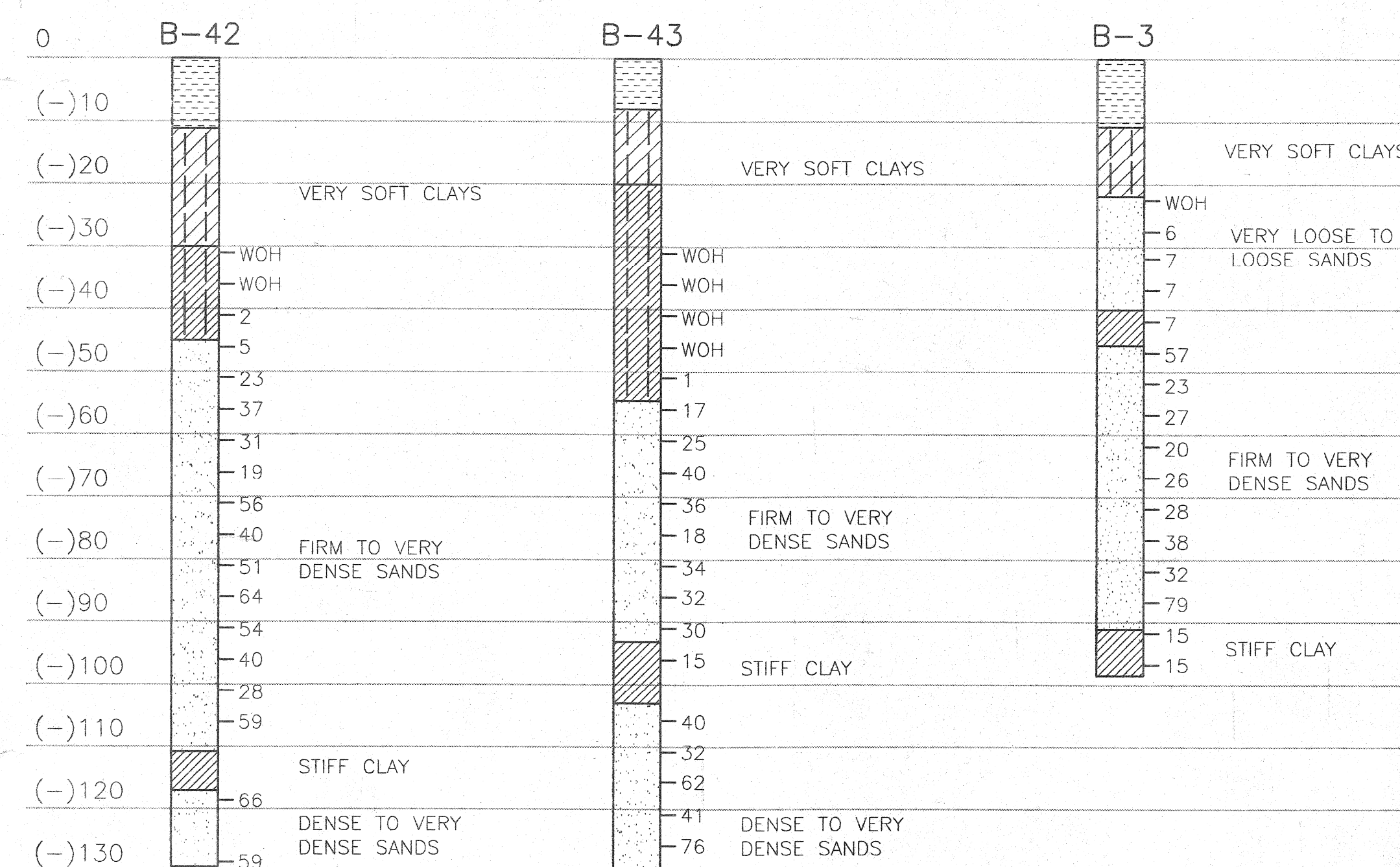
Notes to Boring: 1. Set 63' Of 4" Casing 2. Boring Located = 70 Feet South of Dock

DRILL RIG: Barge Mounted Drill Rig TOTAL % RECOVERY **61.3**

DRILL METHOD: AUGER: FROM: TO: DATE: 7-19-94 DATE: 7-20-94 TIME: 11:00 TIME: 1:15 NOTE: Number of Blows of 140 lb. Hammer Falling 30" to Drive a 2" O.D. Splitspoon Sampler.

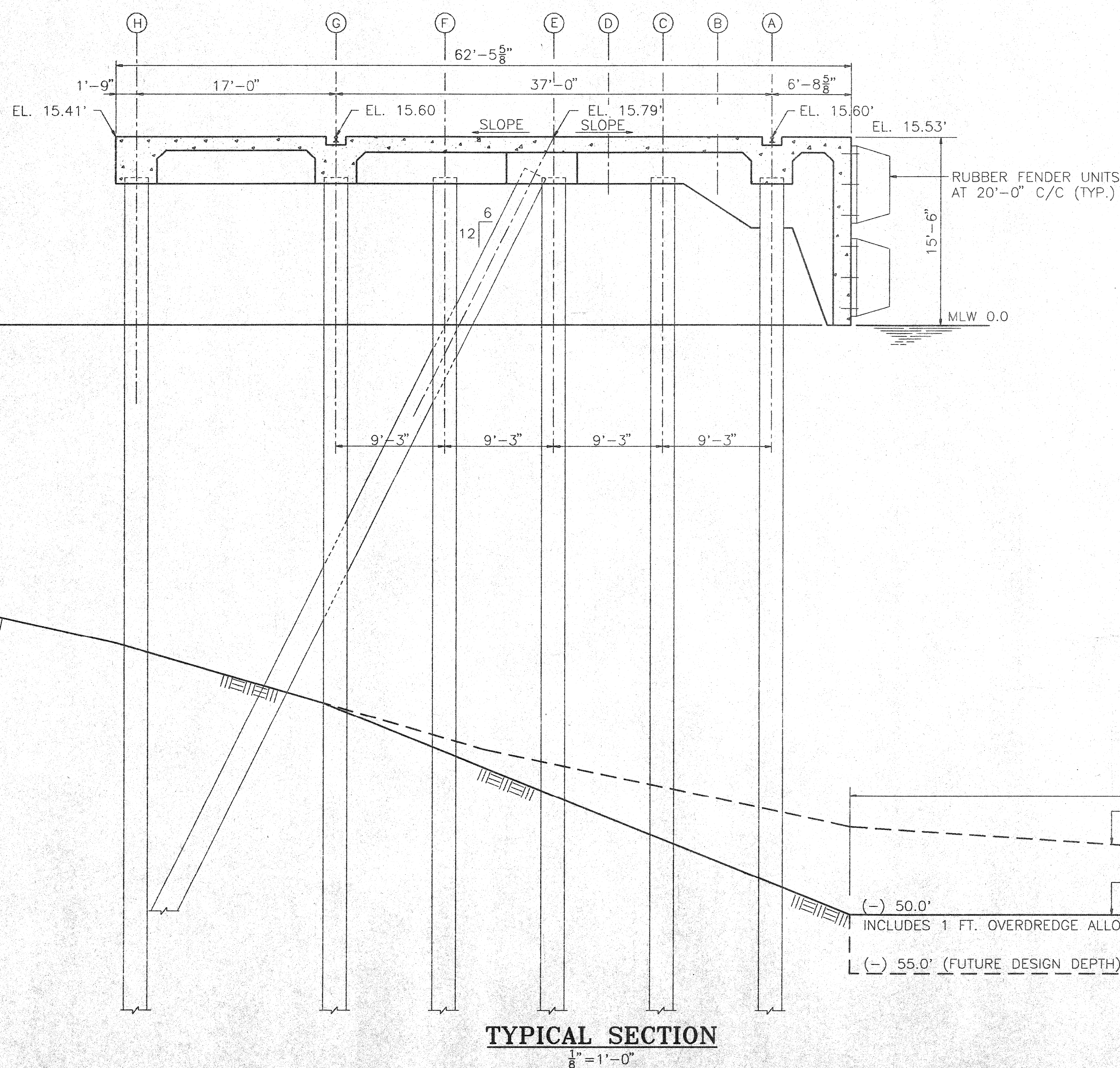
Log Notes:
1.) Set Five (5) Feet of 4 Inch Steel Casing
2.) Water Depth at Time of Drilling = -1.5 Feet

CURRENT (1994) SOIL BORINGS



NOTE:
DATA FROM SUBSURFACE INVESTIGATION AND ANALYSIS BY VESTER J. THOMPSON JR. INC. DATED FEB. 8, 1973.

1973 SOIL BORINGS (REFERENCE)



REV.	DATE	DESCRIPTION
ALABAMA STATE DOCKS DEPARTMENT		
MOBILE ALABAMA		
Gottlieb Barnett Bridges		McDUFFIE TERMINALS 268 FT. DOCK EXTENSION
Drawn By: L.W.R.	Date: JULY 94	
Checked By: P.E.B.	Date: 9/19/94	TYPICAL SECTION AND SOIL BORINGS
Scale: NOTED	DRAWING NO. 764-1-2	

BORING NO.: **MB-1** WATER ELEVATION: TIME OF DRILLING: **-34.1 FEET MEAN SEA LEVEL**

SAMPLE NO.	DEPTH (FT) FROM TO	TYPE SPT US	FIELD SOILS CLASSIFICATION	UNIFIED SYMBOL	% RECV	BLOWS/FT		
						1st	2nd	3rd
1	-34.1 -35.6	X	Very Loose Black SILT	ML	95	W	0	R
2	-39.1 -40.6	X	Very Loose Black SILT, Trace Gray Silty Sand	ML	95	W	0	R
3	-44.1 -45.6	X	Very Loose Black SILT, Trace Gray Silty Sand	ML	90	W	0	R
4	-49.1 -50.6	X	Very Loose Black SILT, Trace Gray Silty Sand	ML	90	W	0	R
5	-57.6 -59.1	X	Firm Tan SAND, Trace Pea Gravel	SP	75	2	6	7
6	-62.6 -64.1	X	Firm Tan SAND, Trace Pea Gravel	SP	75	5	10	10
7	-67.6 -69.1	X	Firm Tan SAND, Trace Pea Gravel	SP	75	3	4	6
8	-72.6 -74.1	X	Dense Gray SAND	SP	80	18	18	19
9	-77.6 -79.1	X	Dense Gray SAND	SP	80	19	21	19
10	-82.6 -84.1	X	Very Dense Gray & Tan SAND, Trace Pea Gravel	SP	80	14	28	30
11	-87.6 -89.1	X	Very Dense Tan SAND, Trace Pea Gravel	SP	80	15	28	27
12	-92.6 -94.1	X	Very Dense Tan Coarse To Medium SAND, Trace Gravel	SP	90	12	21	35
13	-97.6 -99.1	X	Firm Tan Coarse To Medium SAND	SP	80	8	10	13
14	-102.6 -104.1	X	Very Dense Tan Coarse To Medium SAND	SP	75	18	31	25
15	-107.6 -109.1	X	Firm Tan Coarse To Fine SAND, Trace Gravel	SP	80	2	9	15
16	-112.6 -114.1	X	Soft Gray Sandy CLAY (0-1.0')/ Firm Fine Gray SAND	CL SP-SM	95	2	4	21
17	-117.6 -119.1	X	Very Dense Gray Coarse To Fine SAND	SP	75	11	32	50 For 4"
18	-122.6 -124.1	X	Very Dense Gray Coarse To Fine SAND	SP	70	19	26	34
19	-127.6 -129.0	X	Very Dense Gray Coarse To Fine SAND, 1" Lense Pea Gravel	SP	75	24	44	50 For 5"

Notes to Boring: 1. Set 53' Of 4" Casing 2. Boring Located = 415 Feet South of Dock.
 DRILL RIG: Barge Mounted Drill Rig TOTAL % RECOVERY: 82
 DRILL METHOD: AUGER: FROM: TO: START: COMPLETE: DATE: 7-18-94 DATE: 7-18-94
 MUD: [X] FROM: 0.0 TO: 130.0 TIME: 8:30 AM TIME: 11:00 AM

Log Notes:
 1.) Set Five (5) Feet of 4 Inch Steel Casing
 2.) Water Depth at Time of Drilling = -1.5 Feet

BORING NO.: **MB-2** WATER ELEVATION: TIME OF DRILLING: **-39.8 FEET MEAN SEA LEVEL**

SAMPLE NO.	DEPTH (FT) FROM TO	TYPE SPT US	FIELD SOILS CLASSIFICATION	UNIFIED SYMBOL	% RECV	BLOWS/FT		
						1st	2nd	3rd
1	-39.8 -41.3	X	Very Loose Black SILT	ML	100	W	0	R
2	-44.8 -46.3	X	Very Loose Black SILT	ML	100	W	0	R
3	-49.8 -51.3	X	Very Loose Black SILT	ML	100	W	0	R
4	-56.8 -58.3	X	Firm Gray Fine To Medium SAND, Trace Gravel	SP	75	3	5	11
5	-61.8 -63.3	X	Firm Gray Coarse To Fine SAND, Trace Gravel	SP	55	7	7	10
6	-66.8 -68.3	X	Firm Gray Coarse To Fine SAND	SP	60	3	5	8
7	-71.8 -73.3	X	Firm Gray Coarse To Fine SAND	SP	70	7	8	10
8	-76.8 -78.3	X	Firm Tan Fine SAND, Lense Tan Sandy Clay	SP	50	10	15	17
9	-81.8 -83.3	X	Dense Tan Fine To Coarse SAND	SP	70	14	22	19
10	-86.8 -88.3	X	Dense Tan Fine To Coarse SAND	SP	70	12	16	17
11	-91.8 -93.3	X	Very Dense Tan Fine To Medium SAND	SP	60	13	24	36
12	-96.8 -98.3	X	Stiff Gray CLAY, Trace Organics (Clay Encountered at -94.8)	CH	60	3	4	5
	-99.8 -101.6	X	Attempt Thin Wall Tube, No Recovery		0	PUSH	1.8'	
13	-101.8 -103.3	X	Very Stiff Gray CLAY, Trace Organics	CH	95	6	7	9
14	-106.8 -108.3	X	Very Stiff Gray CLAY, Trace Organics	CH	95	8	6	9
15	-111.8 -113.3	X	Stiff Gray Sandy CLAY, Lenses Fine Sand (Sand Encountered at -114.3)	CL	80	5	6	8
16	-116.8 -118.3	X	Very Dense Gray Fine To Coarse SAND	SP	60	11	22	37
17	-126.8 -128.3	X	Dense Gray Fine To Coarse SAND	SP	75	13	19	19

Notes to Boring: 1. Set 63' Of 4" Casing 2. Boring Located = 195' South of Dock.
 DRILL RIG: Barge Mounted Drill Rig TOTAL % RECOVERY: 71
 DRILL METHOD: AUGER: FROM: TO: START: COMPLETE: DATE: 7-20-94 DATE: 7-21-94
 MUD: [X] FROM: 0.0 TO: 130.0 TIME: 1:39 TIME: 3:39

Log Notes:
 1.) Set Five (5) Feet of 4 Inch Steel Casing
 2.) Water Depth at Time of Drilling = -1.5 Feet

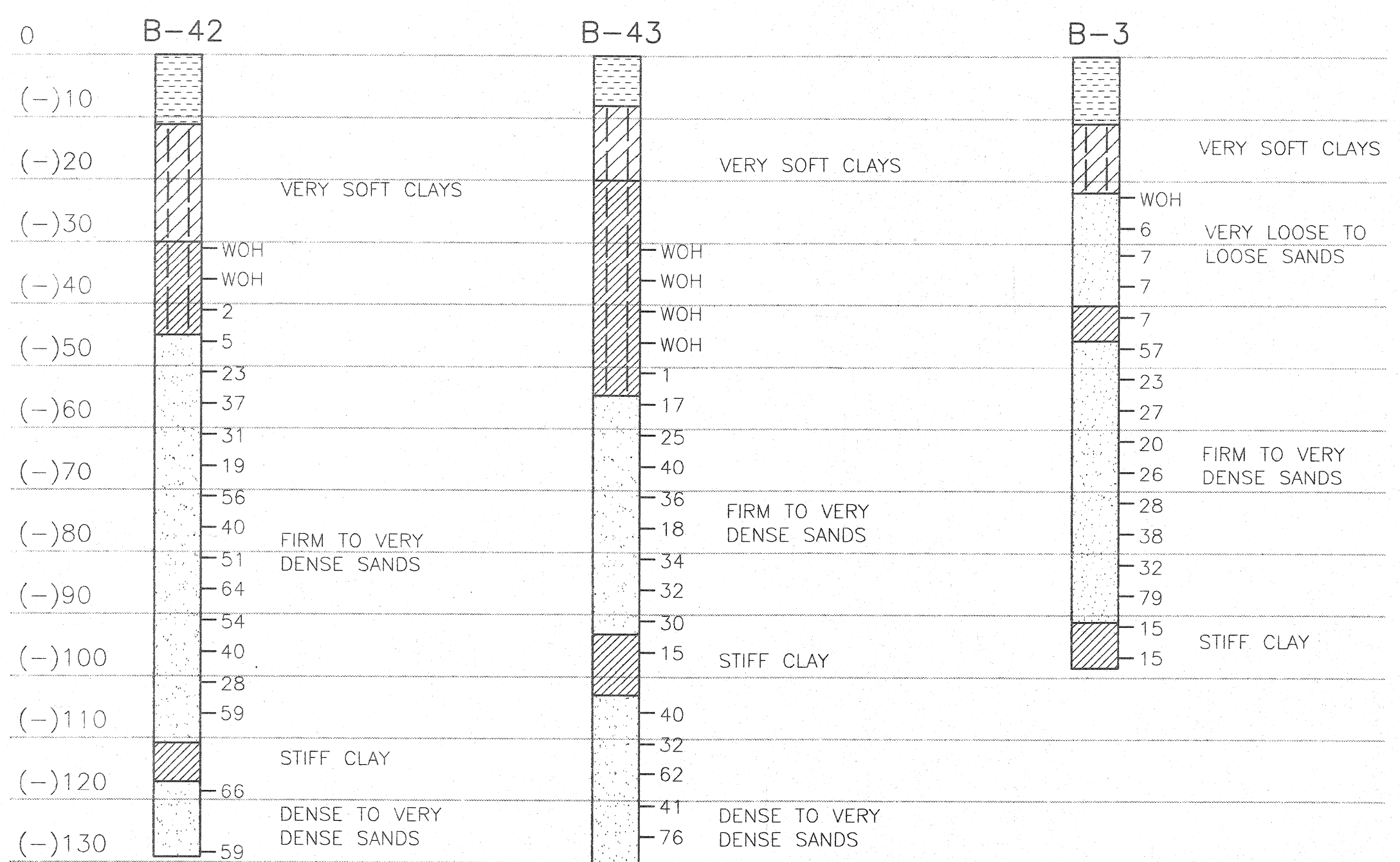
BORING NO.: **MB-3** WATER ELEVATION: TIME OF DRILLING: **-39.5 FEET MEAN SEA LEVEL**

SAMPLE NO.	DEPTH (FT) FROM TO	TYPE SPT US	FIELD SOILS CLASSIFICATION	UNIFIED SYMBOL	% RECV	BLOWS/FT		
						1st	2nd	3rd
1	-39.5 -41.0	X	Very Loose Black SILT	ML	60	W	0	R
2	-44.5 -46.0	X	Very Loose Black SILT	ML	70	W	0	R
3	-49.5 -51.0	X	Very Loose Black SILT	ML	60	W	0	R
4	-54.5 -56.0	X	WOOD		70	15	7	3
5	-61.5 -63.0	X	Firm Gray Fine To Medium SAND	SP	60	7	9	10
6	-66.5 -68.0	X	Firm Gray Fine To Medium SAND	SP	60	7	11	16
7	-71.5 -73.0	X	Firm Gray Coarse To Fine SAND	SP	75	7	12	17
8	-77.0 -78.5	X	Dense Gray Fine To Coarse SAND	SP	70	8	15	16
9	-82.0 -83.5	X	Firm Gray Fine To Coarse SAND, Trace Pea Gravel	SP	55	7	8	11
10	-87.0 -88.5	X	Dense Gray Fine To Coarse SAND	SP	60	10	16	24
11	-92.0 -93.5	X	Dense Gray & Tan Fine To Coarse SAND, Trace Pea Gravel	SP	70	9	13	20
12	-97.0 -98.5	X	Stiff Gray Sandy CLAY	CL	90	3	5	7
	-102.0 -103.5	X	Attempt Thin Wall Tube, No Recovery		0	PUSH	2'	
	-104.0 -106.0	X	Attempt Thin Wall Tube, No Recovery		0	PUSH	2'	
13	-106.0 -107.5	X	Very Stiff Gray CLAY, Trace Organics	CH	95	4	8	10
14	-112.0 -113.5	X	Stiff Gray Sandy CLAY, Lenses Fine Sand	CL	75	3	5	9
15	-117.0 -118.5	X	Dense Gray Coarse To Medium SAND	SP	80	4	13	19
16	-122.0 -123.5	X	Very Dense Gray Coarse To Medium SAND	SP	50	15	26	28
17	-127.0 -128.5	X	Dense Gray Fine To Medium SAND	SP	65	11	10	24

Notes to Boring: 1. Set 63' Of 4" Casing 2. Boring Located = 70 Feet South of Dock.
 DRILL RIG: Barge Mounted Drill Rig TOTAL % RECOVERY: 61.3
 DRILL METHOD: AUGER: FROM: TO: START: COMPLETE: DATE: 7-19-94 DATE: 7-20-94
 MUD: [X] FROM: 0.0 TO: 130.0 TIME: 11:00 TIME: 1:15

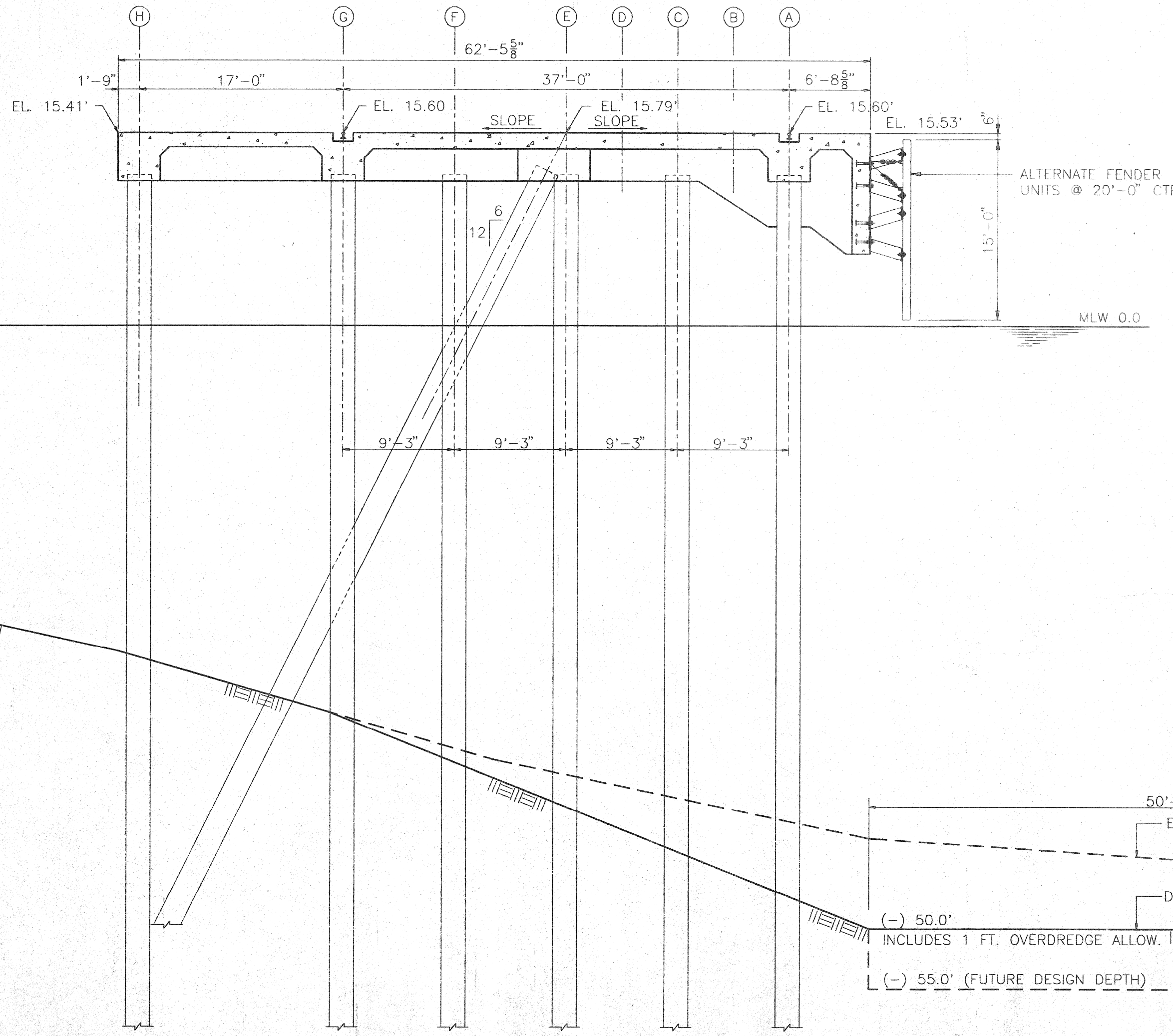
Log Notes:
 1.) Set Five (5) Feet of 4 Inch Steel Casing
 2.) Water Depth at Time of Drilling = -1.5 Feet

CURRENT (1994) SOIL BORINGS



NOTE:
 DATA FROM SUBSURFACE INVESTIGATION AND ANALYSIS BY VESTER J. THOMPSON JR. INC. DATED FEB. 8, 1973.

1973 SOIL BORINGS (REFERENCE)



TYPICAL SECTION
 1/8" = 1'-0"

REV.	DATE	DESCRIPTION

ALABAMA STATE DOCKS DEPARTMENT

MOBILE ALABAMA

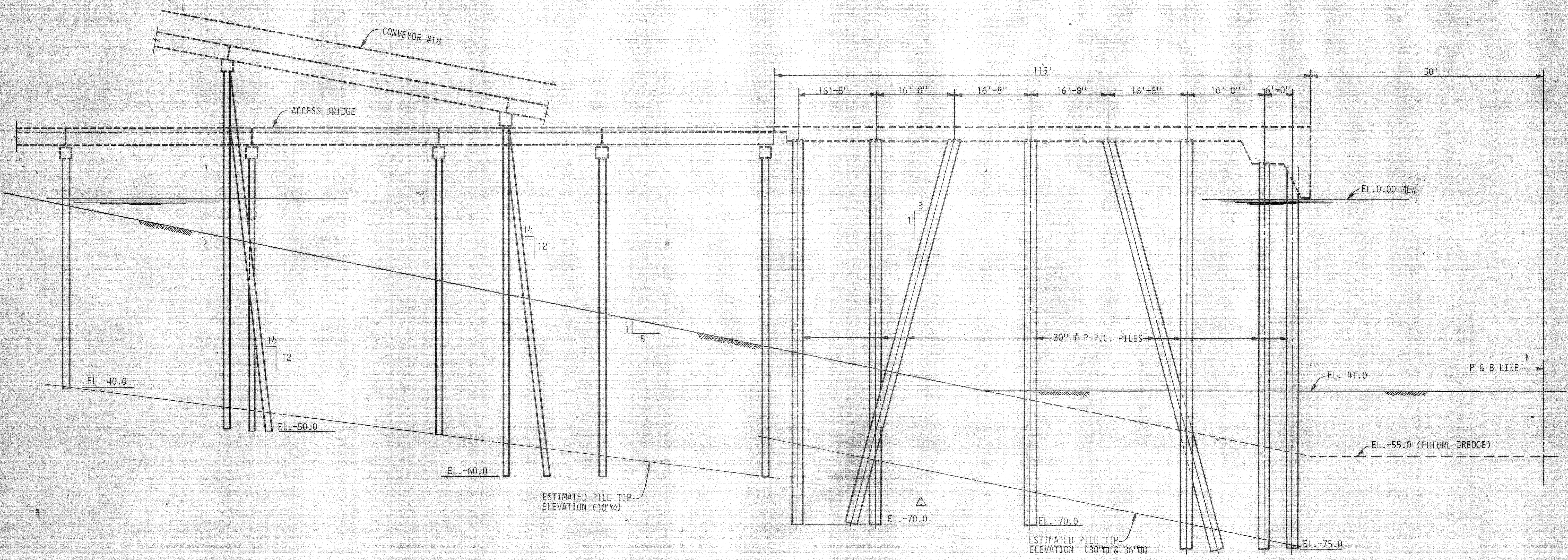
Gottlieb Barnett Bridges

McDUFFIE TERMINALS 268 FT. DOCK EXTENSION (ALTERNATE) TYPICAL SECTION AND SOIL BORINGS

Drawn By: L.W.R. Date: JULY 94
 Checked By: P.E.B. Date: 9/19/94

Scale: NOTED DRAWING NO. 764-1-2A 0 REV.

CD Save: 764-1-2A
 Plot Date: 9/16/94 12:00



TYPICAL SECTION
 (LOOKING NORTH)
 SCALE: 3/32" = 1'-0"

NOTE: PILE ALTERNATE "A" SHOWN
 PILE ALTERNATE "B" SIMILAR

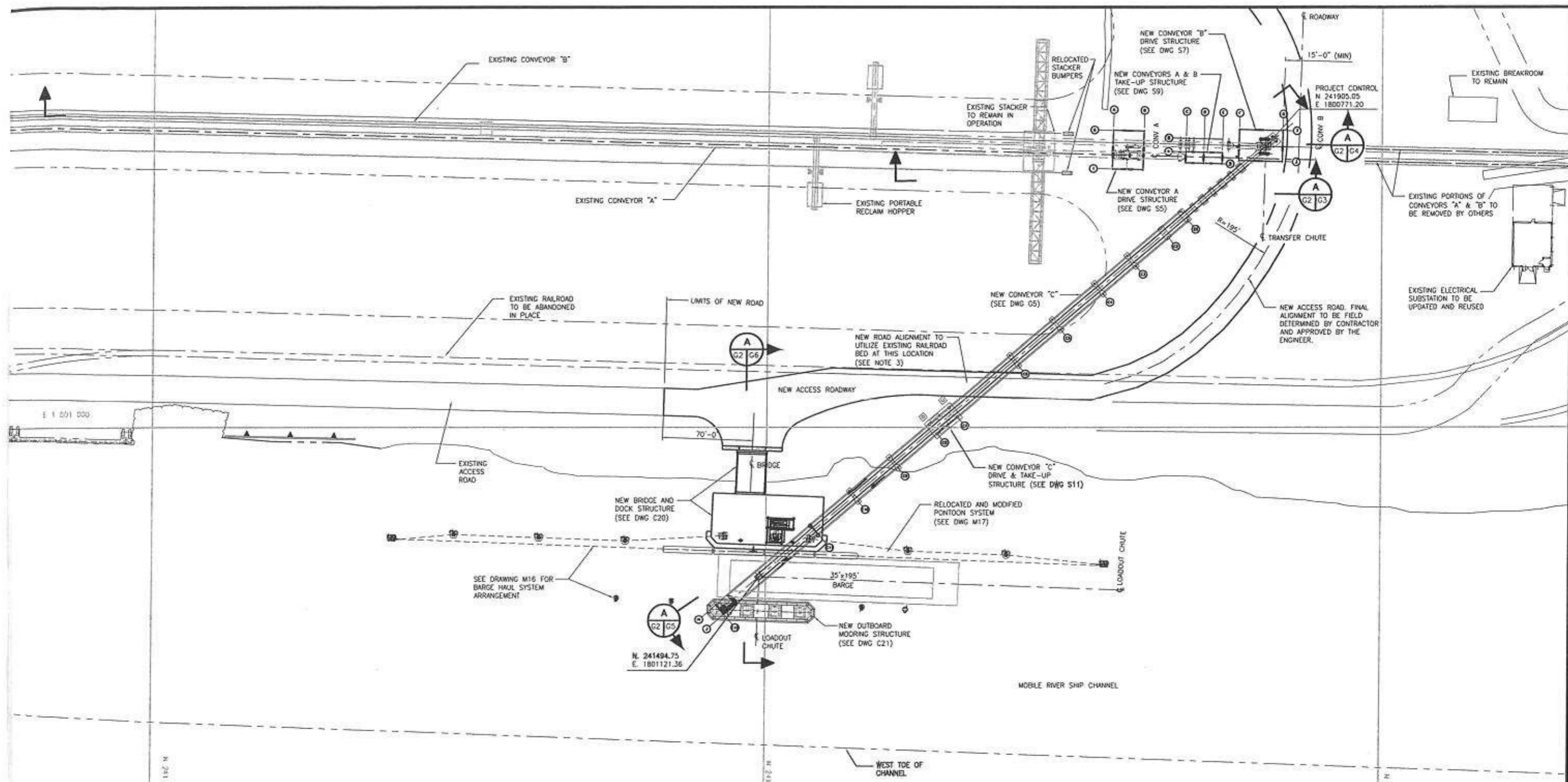
AS BUILT
 CKD. BY: PKJ DATE 9/8/82

THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF MOBILE, ALABAMA (ALABAMA STATE DOCKS DEPARTMENT PROJECT)

TYPICAL SECTION THRU DOCK

DAVID VOLKERT & ASSOCIATES CONSULTING ENGINEERS

DESIGNED	PKJ	DETAILED	GGM	TRACED
CHECKED	P. K. J.	CHECKED	PKJ	CHECKED
REVISIONS		DATE		



ENLARGED GENERAL PROJECT SITE PLAN
1"=40'-0"



NOTES:

1. NEW DRIVE AND TAKEUP STRUCTURE FOR CONVEYORS "A" & "B" TO BE CONSTRUCTED TO THE MAXIMUM EXTENT POSSIBLE PRIOR TO SHUTDOWN.
2. LIMITS OF CONVEYOR A & B DEMO SHALL BE AS REQUIRED TO INSTALL NEW EQUIPMENT AND STRUCTURES AND TO ALLOW FOR CONSTRUCTION OF NEW ACCESS ROAD.
3. AT LOCATIONS WHERE NEW ROADWAY UTILIZES EXISTING RAILROAD BED, CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING TRACK AND CROSS TIES, AND GRADE EXISTING RAILROAD BED AS REQUIRED TO ACCOMMODATE THE NEW ROADWAY REQUIREMENTS.

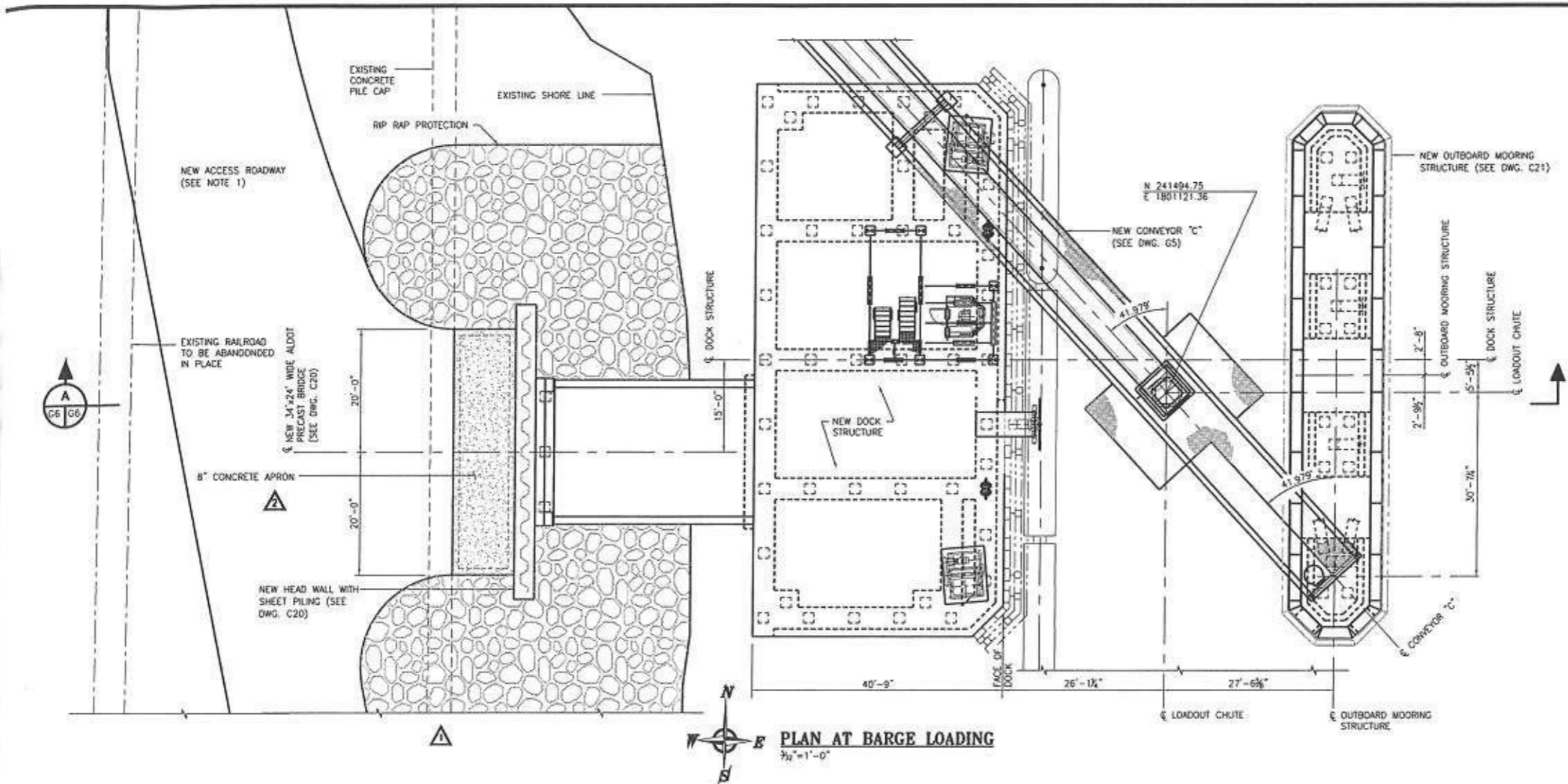
REV.	DATE	DESCRIPTION	BY
0	03/23/06	RECORD ISSUE	HAC
0	02/22/05	ISSUED FOR CONSTRUCTION	HAC

ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA

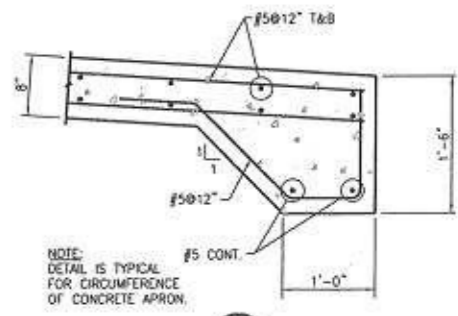
McDUFFIE TERMINAL BARGE LOADOUT RELOCATION

ENLARGED SITE PLAN

Drawn By: JLT	Date: 10/12/04
Checked By: HAC	Date: 10/29/04
Scale: 1"=40'-0"	Sheet No: 1723
Revis. No.:	REV. 0



PLAN AT BARGE LOADING
 3/32" = 1'-0"



DETAIL 1
 1" = 1'-0"

NOTES:

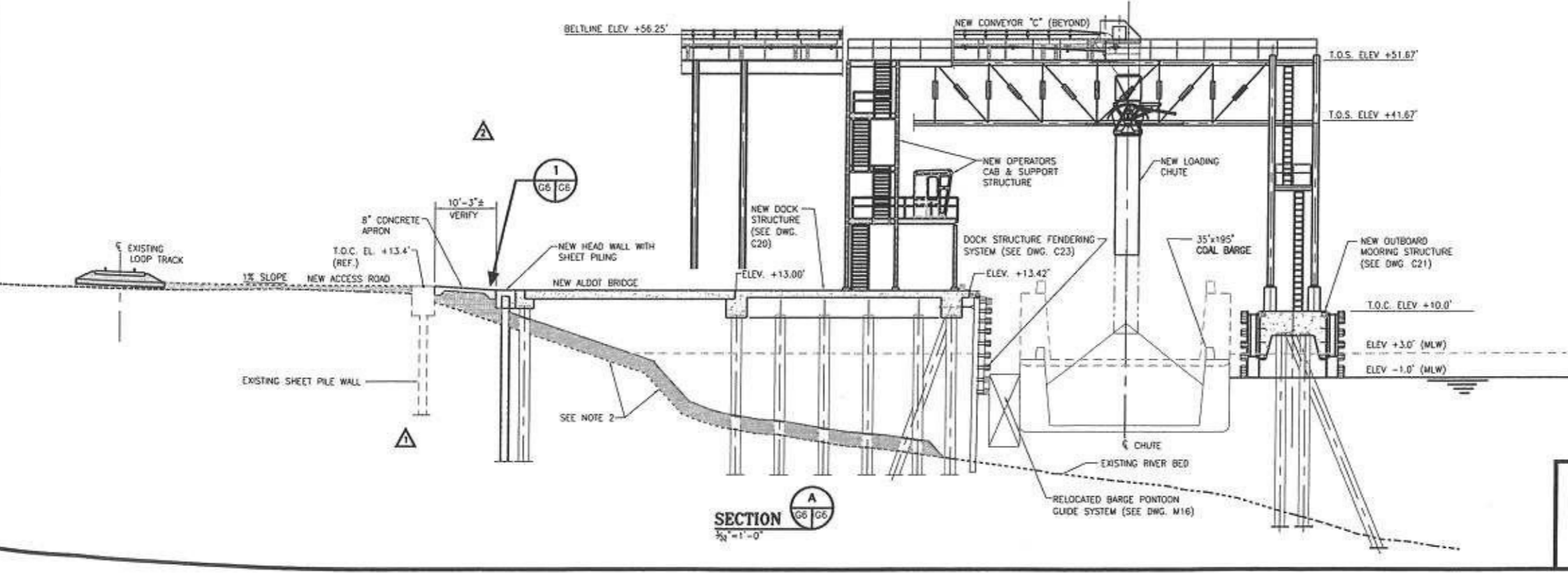
1. FINAL ALIGNMENT OF ACCESS ROAD TO BE FIELD DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ROAD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TYPICAL ROAD SECTION AS SHOWN ON DRAWING G1, AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
2. AS RELATIVE TO THE PILING FOR ALL MARINE STRUCTURES, INCLUDING DOCK PILING, SHEET PILING, FENDER PILING AND CONVEYOR BENT PILING THAT ARE TO BE DRIVEN THROUGH THE EXISTING APPROXIMATE 2" THICK, CLASS III RIP RAP BLANKET AND THE UNDERLYING FILTER FABRIC MATERIAL, THE CONTRACTOR SHALL UTILIZE ADEQUATE MEANS (I.E. CLAMHELL, ETC.) AS NECESSARY TO FACILITATE THE INSTALLATION AND AVOID DAMAGE TO PILING.

REV.	DATE	DESCRIPTION	BY
2	03/23/06	RECORD ISSUE	HAC
2	5/20/05	ADDED CONCRETE APRON	HAC
1	04/27/05	ADDED PARTIAL DEMO OF EXIST PILE CAP	HAC
0	02/22/05	ISSUED FOR CONSTRUCTION	HAC

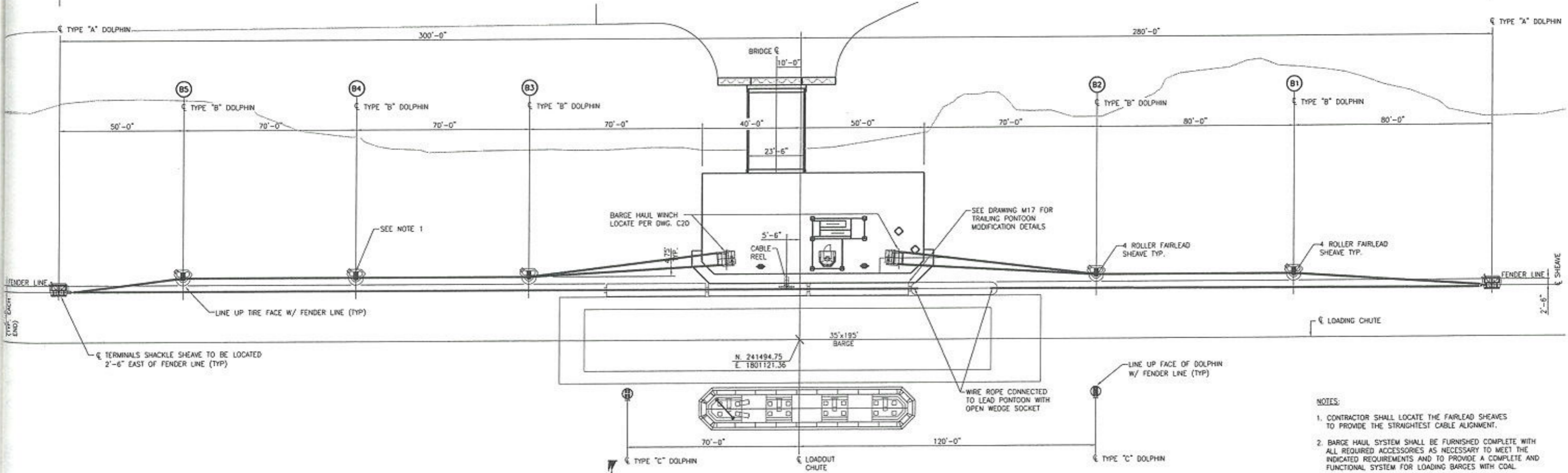
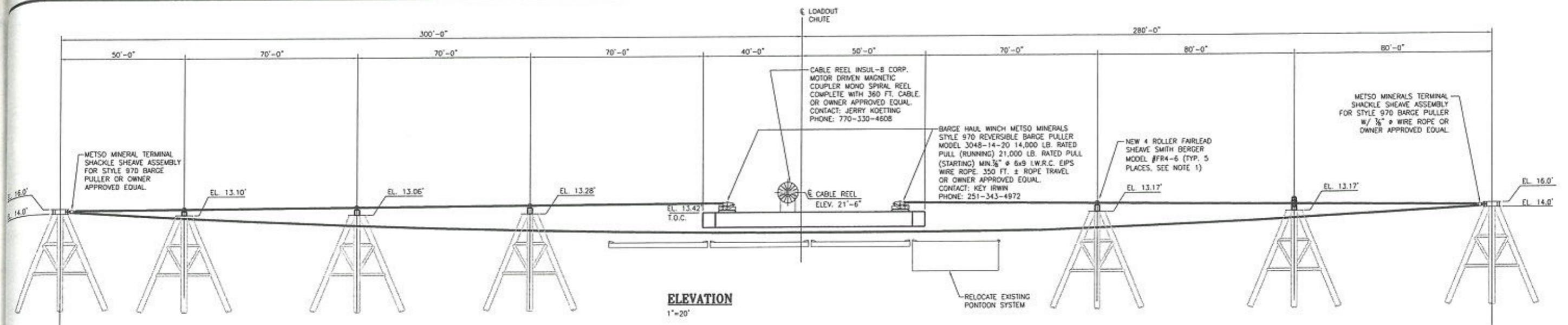
ALABAMA STATE PORT AUTHORITY
 MOBILE ALABAMA

McDUFFIE TERMINAL BARGE LOADOUT RELOCATION
LOADING DOCK PLAN & SECTION

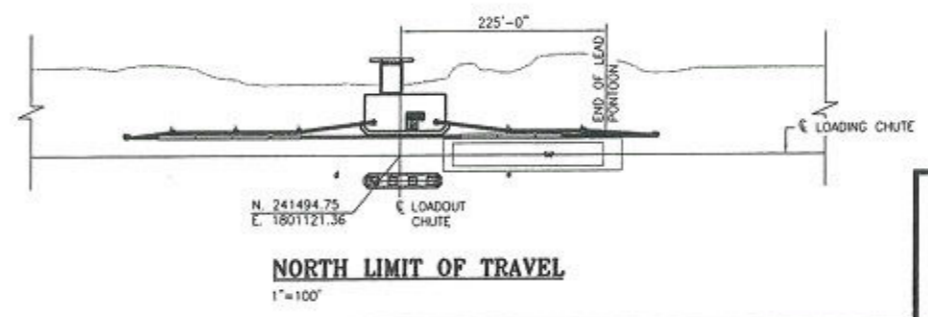
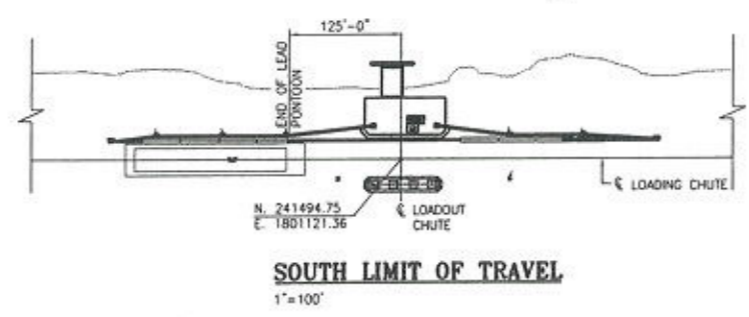
Drawn By: JLT Date: 10/12/04
 Checked By: HAC Date: 10/08/04
 Scale: 3/32" = 1'-0" Job No. 1723 Drawing No. G6 Rev. 2



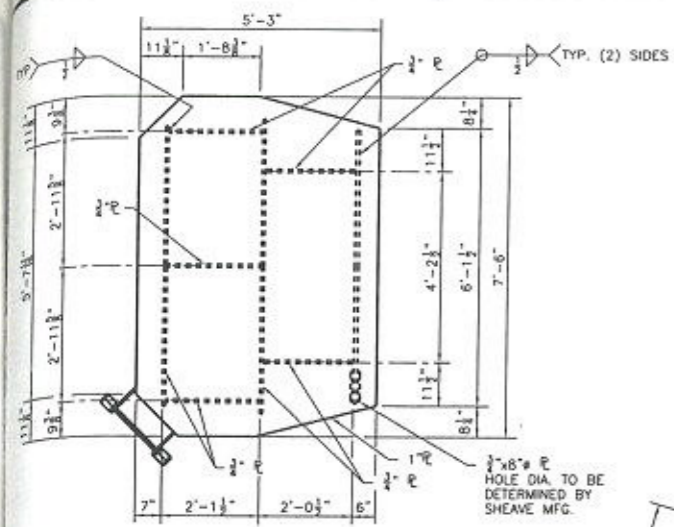
SECTION A-A
 3/32" = 1'-0"



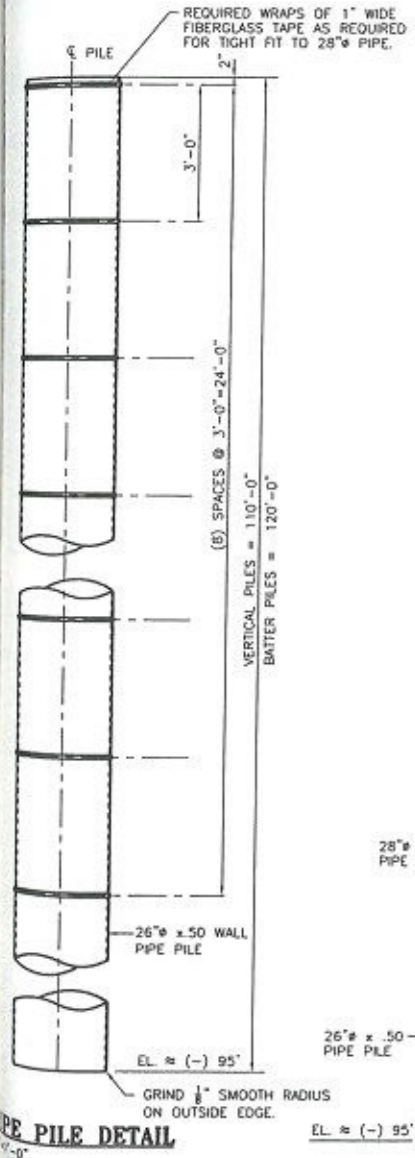
- NOTES:**
- CONTRACTOR SHALL LOCATE THE FAIRLEAD SHEAVES TO PROVIDE THE STRAIGHTEST CABLE ALIGNMENT.
 - BARGE HAUL SYSTEM SHALL BE FURNISHED COMPLETE WITH ALL REQUIRED ACCESSORIES AS NECESSARY TO MEET THE INDICATED REQUIREMENTS AND TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM FOR LOADING BARGES WITH COAL.



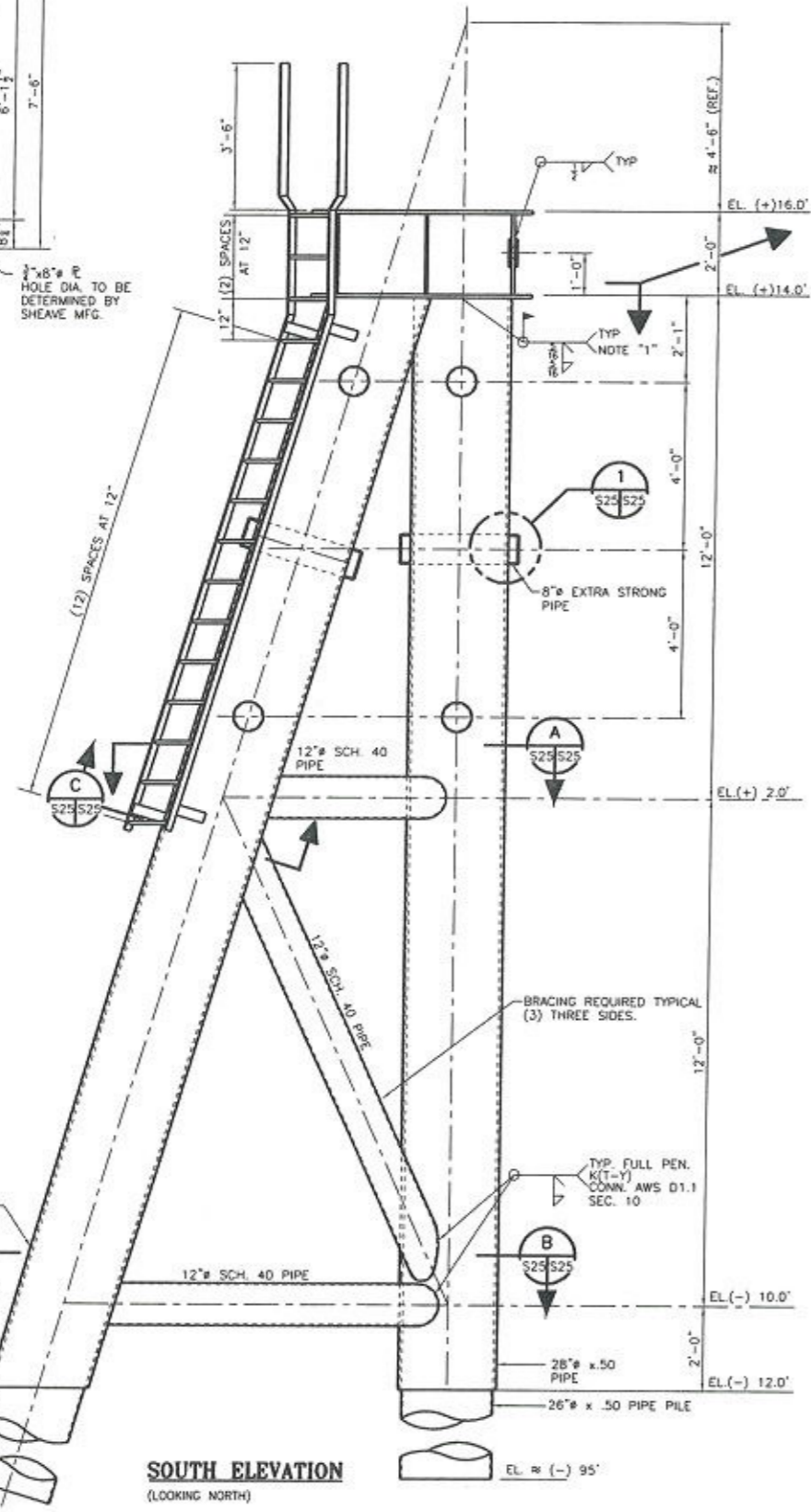
1	03/23/06	RECORD ISSUE
0	02/22/05	ISSUED FOR CONSTRUCTION
REV.	DATE	DESCRIPTION
ALABAMA STATE PORT AUTHORITY		
MOBILE ALABAMA		
GBB Gestel, Burnett & Bridges, LLC Consulting Engineers		
Drawn By: L.R.M.	Date: 9/22/04	McDUFFIE TERMINAL BARGE LOADOUT RELOCATION
Checked By: B.P.N.	Date: 10/7/04	
State: NOTED	Job No: M1723	BARGE HAULING SYSTEM GENERAL ARRANGEMENT
	Sheet No. M16	REV. 1



TOP PLATE PLAN VIEW
1/2"=1'-0"

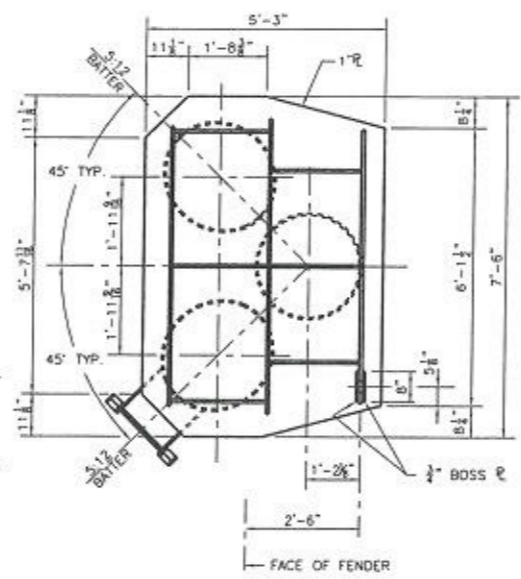


PIPE PILE DETAIL
1/4"=1'-0"

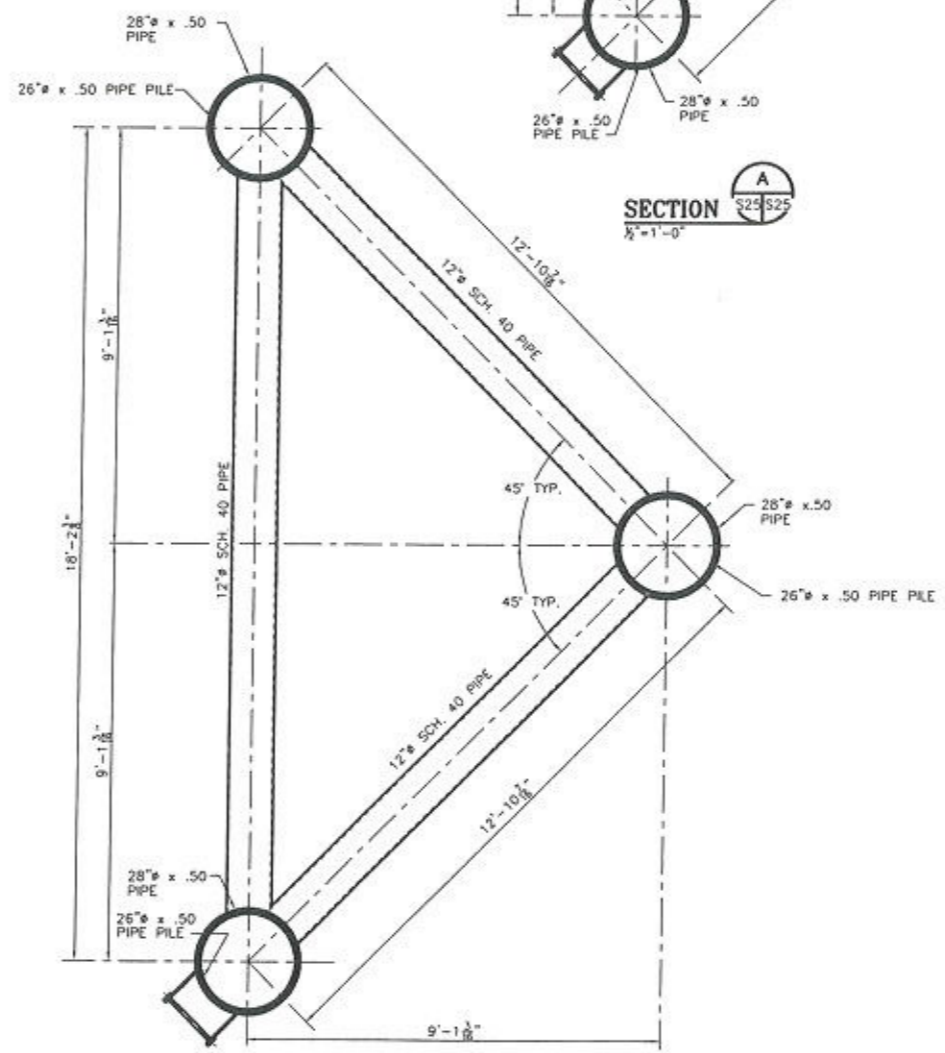


SOUTH ELEVATION
(LOOKING NORTH)

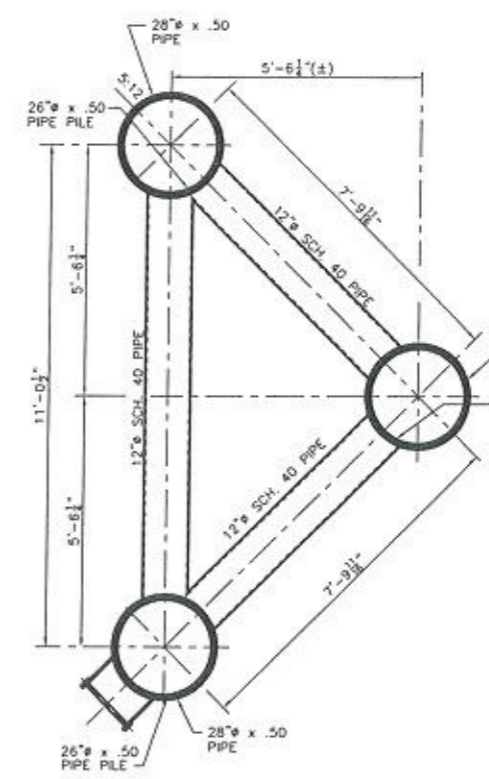
DOLPHIN "A" DETAIL
1/2"=1'-0" (2) REQUIRED



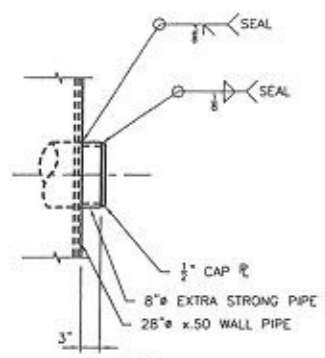
SECTION A
1/2"=1'-0"



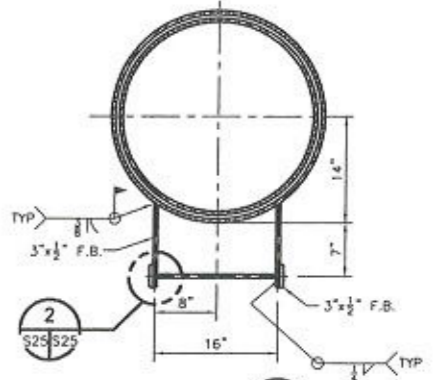
SECTION B
1/2"=1'-0"



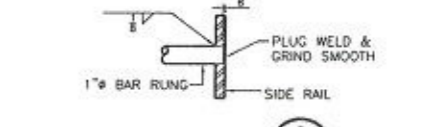
SECTION C
1/2"=1'-0"



DETAIL 1
S25/S25
1"=1'-0"



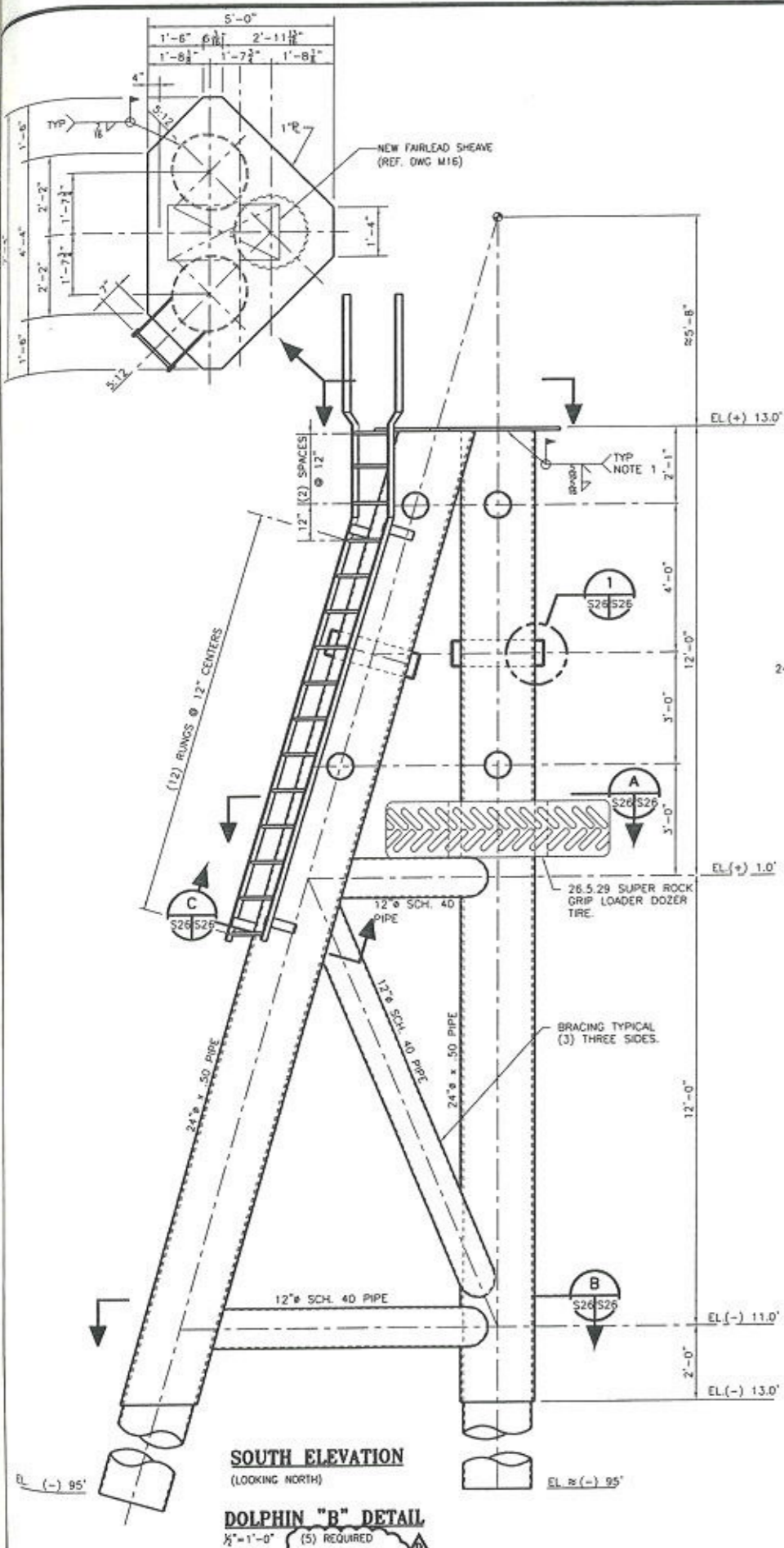
SECTION 2
S25/S25
1"=1'-0"



RUNG DETAIL 2
S25/S25
3"=1'-0"

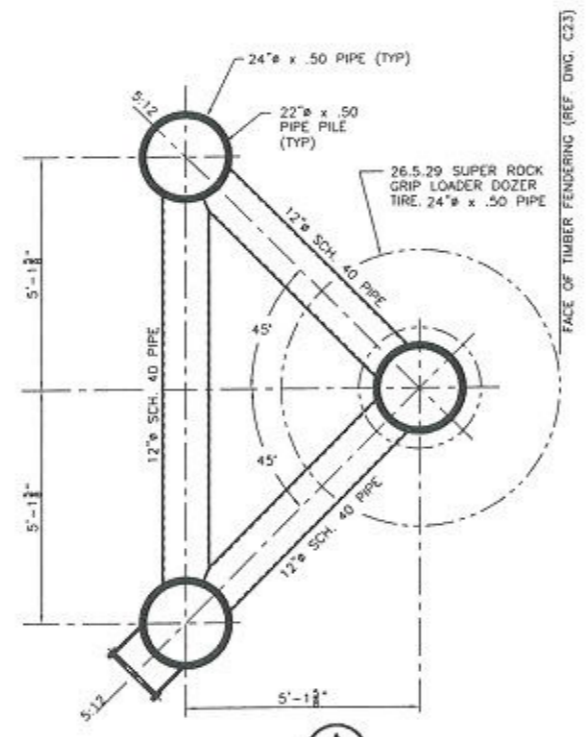
- NOTES:**
- DOLPHINS SHALL BE COMPLETELY FABRICATED (LESS PILES AND CAP PLATES) PRIOR TO INSTALLATION. THEY SHALL BE ACCURATELY LOCATED AS SHOWN AND HELD IN THIS POSITION WHILE SERVING AS A TEMPLATE TO DRIVE THE PIPE PILES. AFTER DRIVING, THE PILES SHALL BE PINNED TO THE DOLPHIN AS SHOWN.
 - FILL DRIVEN PIPE PILES WITH CONCRETE PRIOR TO WELDING WELDING CAP PLATE IN PLACE.
 - CONTRACTOR SHALL PROVIDE PROTECTIVE COATING ON ALL DOLPHINS AND PILES PER REFERENCE SPECIFICATION NO. D2456.

0	03/23/06	RECORD ISSUE
0	02/22/05	ISSUED FOR CONSTRUCTION
REV.	DATE	DESCRIPTION
<p>ALABAMA STATE PORT AUTHORITY MOBILE ALABAMA</p> <p>McDUFFIE TERMINAL BARGE LOADOUT RELOCATION</p> <p>BARGE LOADOUT DOCK DOLPHIN "A" DETAILS</p>		
Drawn By:	DTD	Date: 09/02/04
Checked By:	HAC	Date: 10/07/04
Scale:	NOTED	Sheet No. 1723
		Drawing No. S25
		REV 0

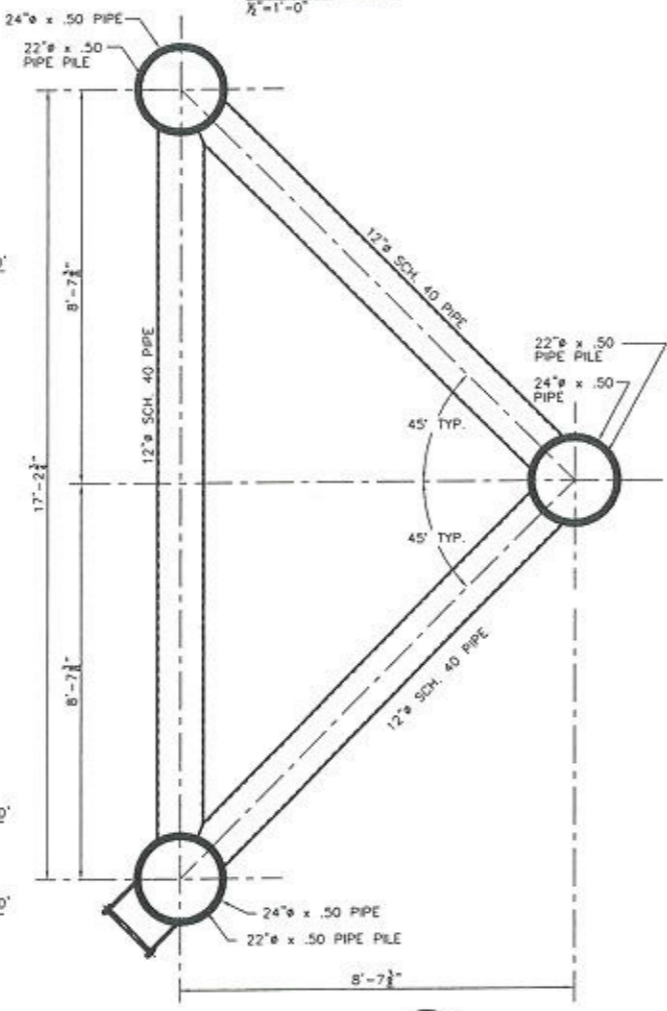


SOUTH ELEVATION
(LOOKING NORTH)

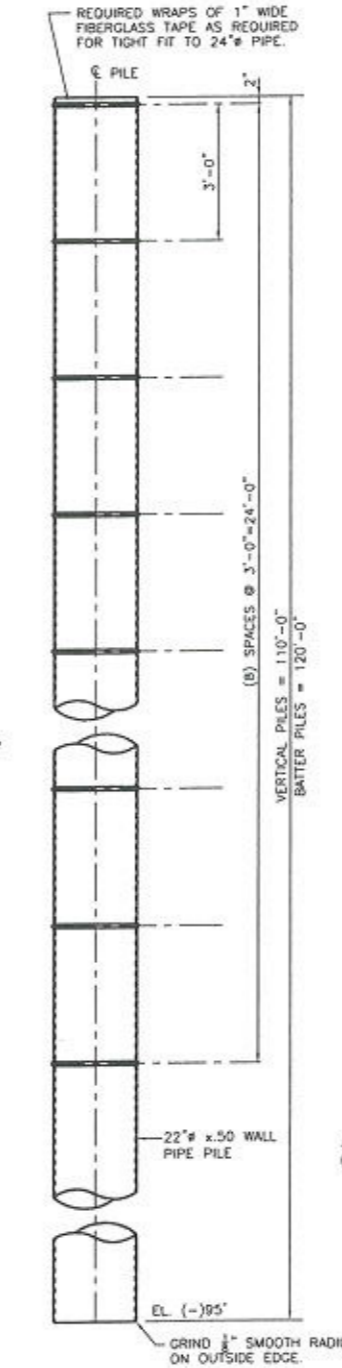
DOLPHIN "B" DETAIL
1/2"=1'-0" (5) REQUIRED



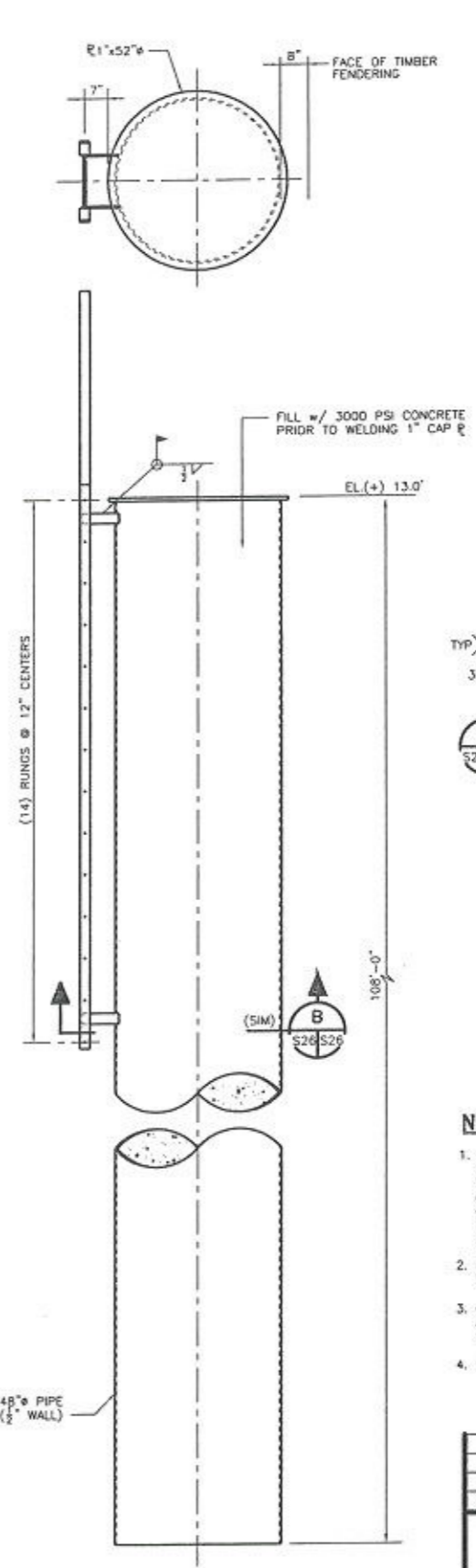
SECTION A
1/2"=1'-0"



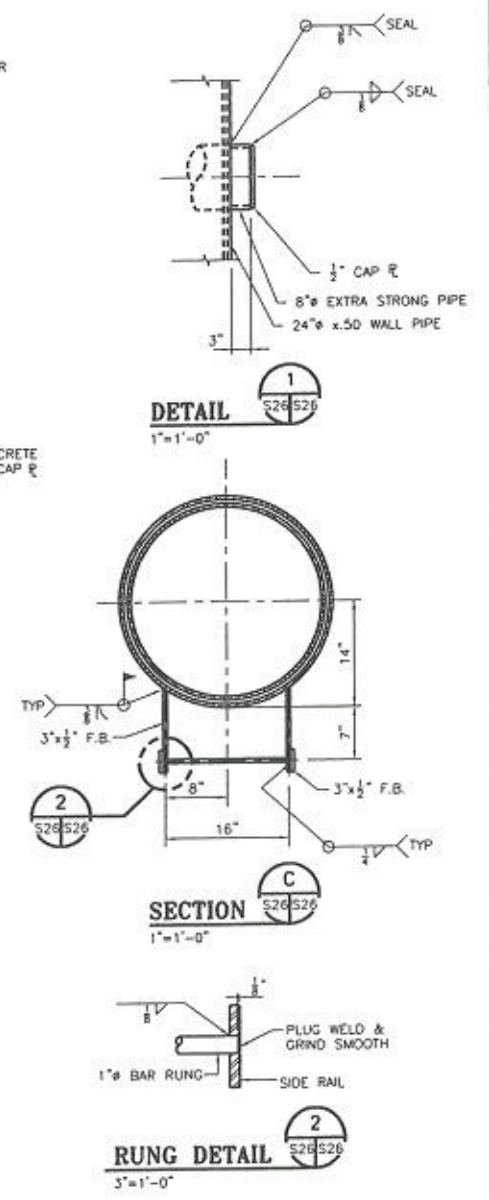
SECTION B
1/2"=1'-0"



PIPE PILE DETAIL
1/2"=1'-0"



DOLPHIN "C" DETAIL
1/2"=1'-0" (2) REQUIRED



DETAIL 1
1"=1'-0"

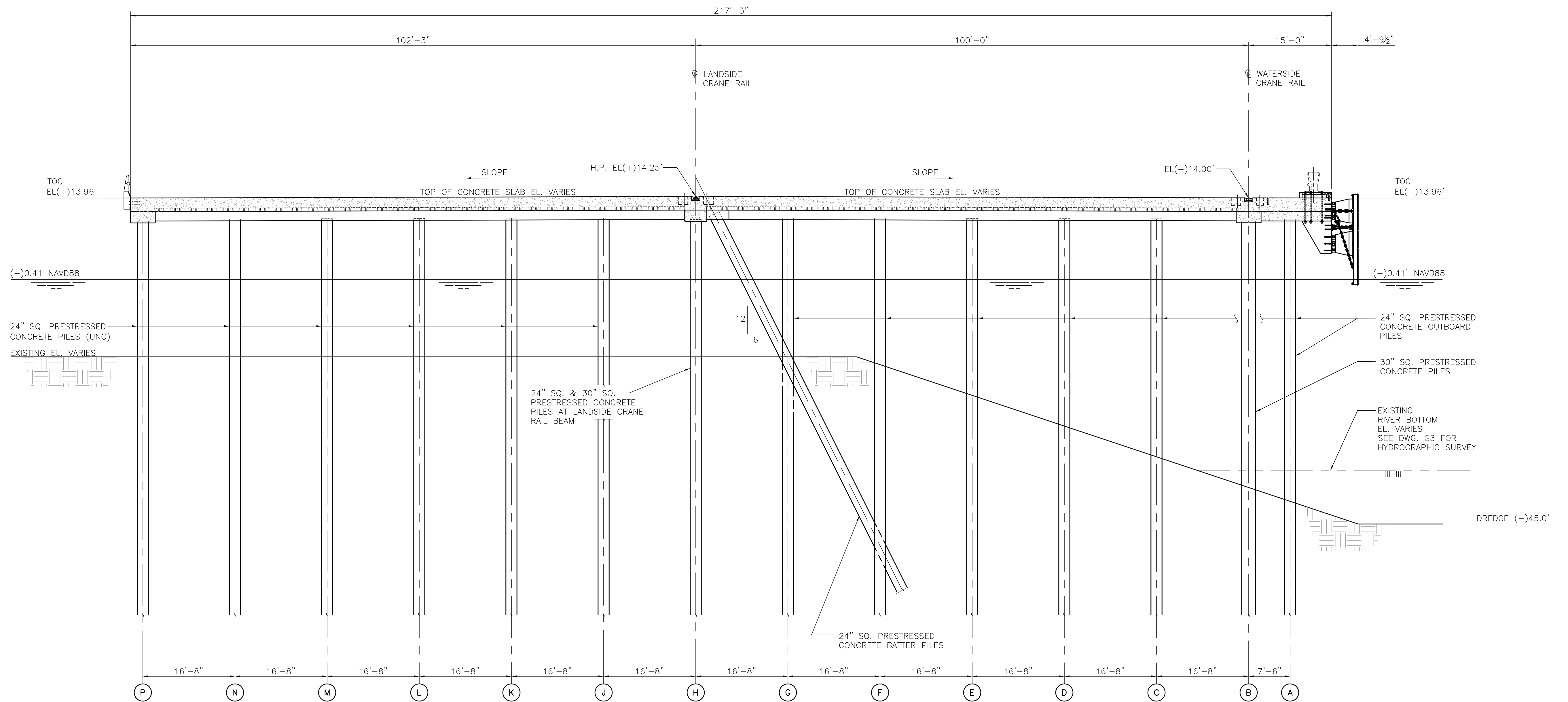
SECTION C
1"=1'-0"

RUNG DETAIL 2
3"=1'-0"

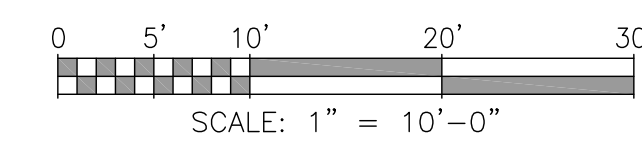
NOTES:

1. DOLPHINS SHALL BE COMPLETELY FABRICATED (LESS PILES AND CAP PLATES) PRIOR TO INSTALLATION. THEY SHALL BE ACCURATELY LOCATED AS SHOWN AND HELD IN THIS POSITION WHILE SERVING AS A TEMPLATE TO DRIVE THE PIPE PILES. AFTER DRIVING, THE PILES SHALL BE PINNED TO THE DOLPHIN AS SHOWN.
2. FILL DRIVEN PIPE PILES WITH CONCRETE PRIOR TO WELDING CAP PLATE IN PLACE.
3. CONTRACTOR SHALL PROVIDE PROTECTIVE COATING ON ALL DOLPHINS AND PILES PER REFERENCE SPECIFICATION NO. 02456.
4. SEE DWG. M16 FOR DOLPHIN LOCATIONS.

0	03/23/06	RECORD ISSUE
0	02/22/05	ISSUED FOR CONSTRUCTION
REV.	DATE	DESCRIPTION
ALABAMA STATE PORT AUTHORITY		
MOBILE ALABAMA		
McDUFFIE TERMINAL BARGE LOADOUT RELOCATION		
BARGE LOADOUT DOCK DOLPHIN "B & C" DET.		
Drawn By: DTD	Date: 09/02/04	Drawing No. S26
Checked By: MAC	Date: 10/07/04	
Scale:	REV No. 1723	REV 0



TYPICAL SECTION @ DOCK EXTENSION
1"=10' (LOOKING NORTH)



ALABAMA STATE PORT AUTHORITY
MOBILE ALABAMA

ASPA PROJECT NO: 10481 ASPA DRAWING NO:

NOTES	
1. PROJECT DATUM IS BASED ON NAVD88.	

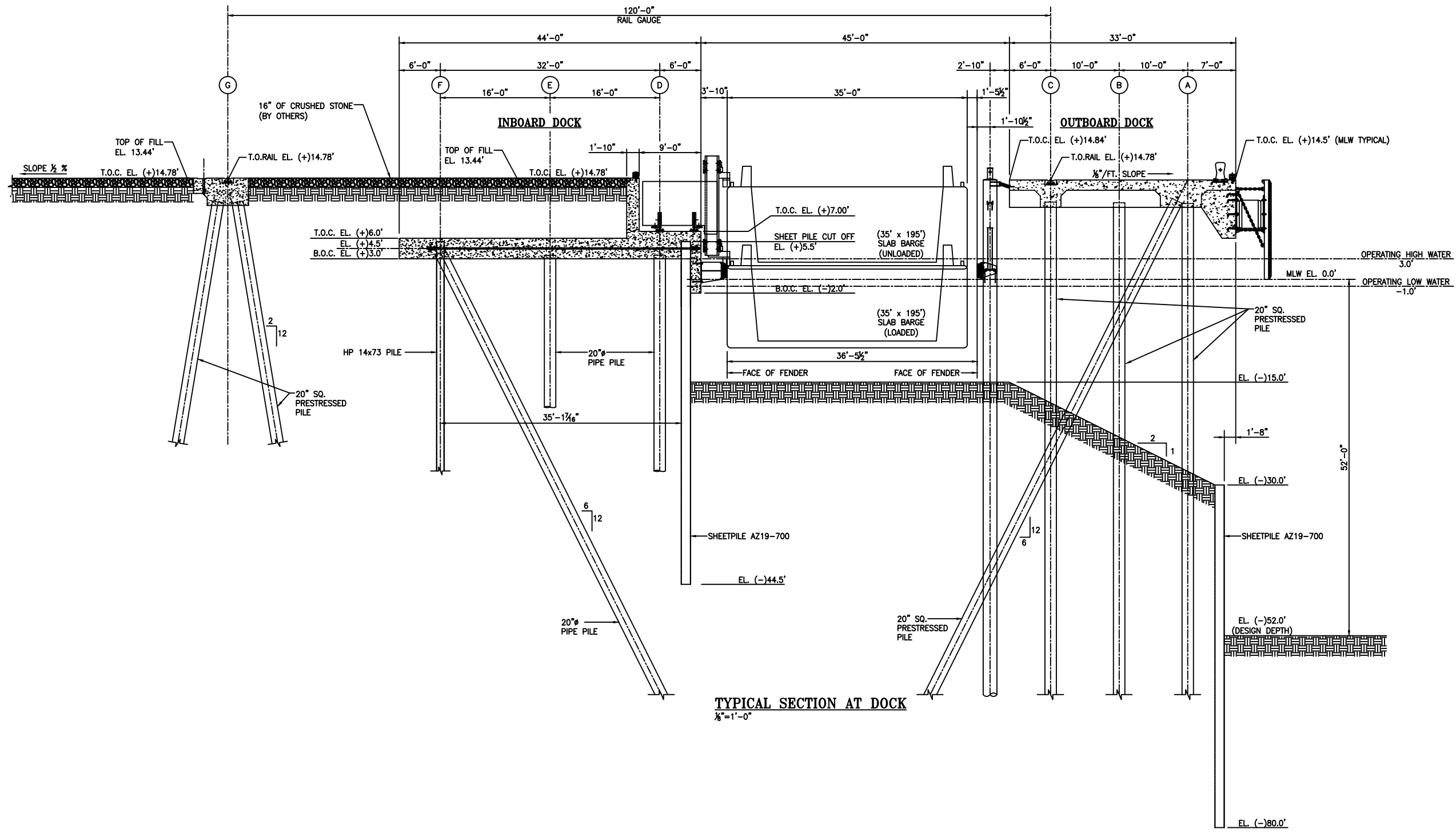
NO.	REVISION	DRAWN	CK'D	APPD	DATE
A	ISSUED FOR BID	JLH	HAC	RSG	12/19/19

APTIM
PORT SERVICES, LLC

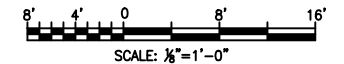
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DRAWN: JLH CK'D: HAC APPD: RSG DATE: 11/25/19 SCALE: 1"=10'

APMT DOCK EXTENSION DREDGING PACKAGE TYPICAL SECTION @ DOCK EXTENSION	
FOR: ALABAMA STATE PORT AUTHORITY	
PROJECT NO: 4111	DWG NO: G4
REV: A	



TYPICAL SECTION AT DOCK
 1/8" = 1'-0"



AS BUILT

REV.	DATE	DESCRIPTION	BY
0	10/30/09	AS BUILT	RSG

ALABAMA STATE PORT AUTHORITY
 MOBILE ALABAMA

Shaw GBB, LLC
 Drawn By: L.R.M. Date: 09/07/07
 Checked By: R.S.G. Date: 01/18/08
 Scale: 1/8" = 1'-0"

PINTO TERMINAL
TYPICAL SECTIONS
 Drawing No. **C05** REV. **0**