ALABAMA STATE PORT AUTHORITY

PIER B SOUTH SHEET PILE WALL REPLACEMENT MOBILE, ALABAMA (10996-TASK 2)

KAY IVEY, GOVERNOR JOHN C. DRISCOLL, DIRECTOR AND C.E.O

ALABAMA STATE PORT AUTHORITY - BOARD OF DIRECTORS BESTOR WARD, CHAIRMAN

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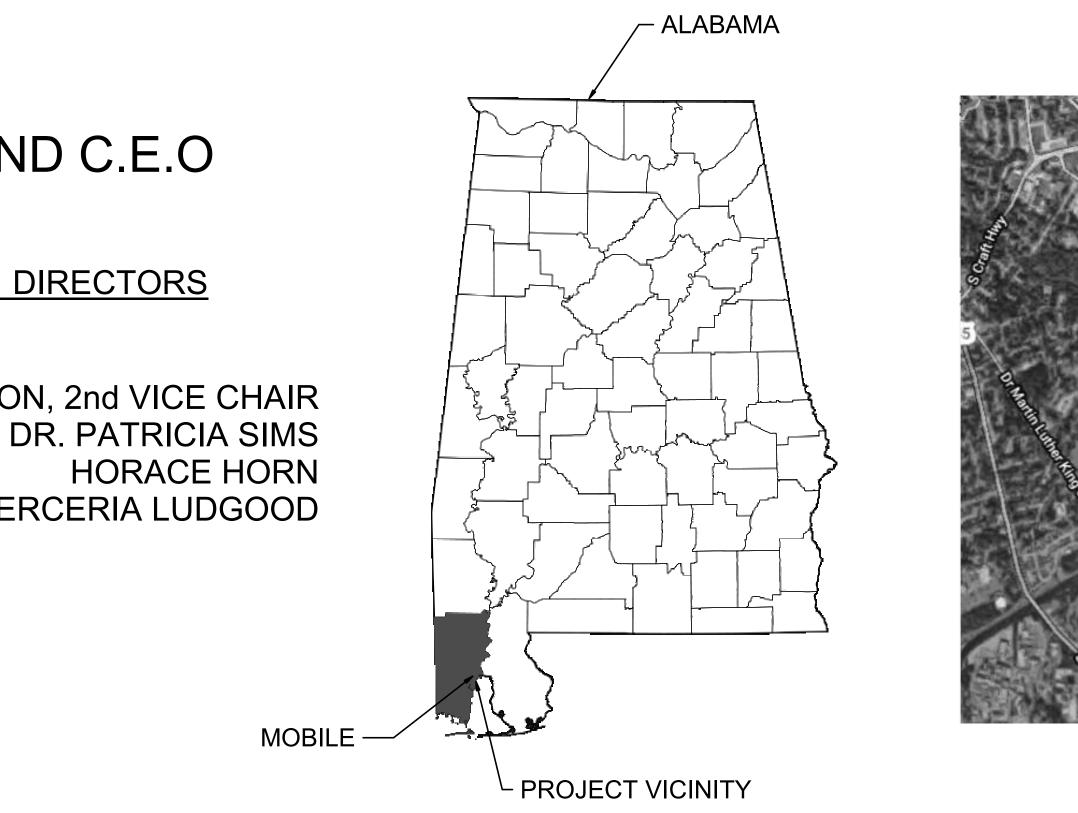
Mott MacDonald 107 St. Francis Street Suite 2900 Mobile, Alabama 36602 United States of America Telephone: (251) 343-4366 www.mottmac.com/americas Client

ALABAMA STATE PORT AUTHORITY

MOBILE, ALABAMA

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0 01-14-22 Date





				LOWRY J. DENTY, P.E.	A B A		Designed	JQ		
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Alabama Steel Termir PROJECT LOCATION LOCATION MAP NTS Eng Check KP PIER B SOUTH Coordination LJD

COVER SHEET

BP

Security

STD

Approved

		SHEET INDEX
		GENERAL
SHEET	REV	DRAWING NAME
GA-01	0	COVER SHEET
GA-02	0	SHEET INDEX AND SUMMARY OF WORK
GA-03	0	GENERAL NOTES AND ABBREVIATIONS
GA-04	0	OVERALL SITE PLAN
GA-05	0	GENERAL DEMOLITION NOTES
GA-06	0	GENERAL MARINE NOTES
		SHEET PILE WALL REPLACEMEN
SHEET	REV	DRAWING NAME
DEMOLITION		
DS-01	0	DEMOLITION OVERALL DECK DEMOLITION PLAN
DS-02	0	DEMOLITION DECK PLANS AREAS 2 & 3 (BENTS 34B - 74A)
DS-03	0	DEMOLITION DECK PLANS AREAS 4 & 5 (BENTS 1 - 34A)
DS-04	0	DEMOLITION BERTH BASIN SECTION AT EXISTING BENT 1
DS-05	0	DEMOLITION BERTH BASIN SECTION AT WAREHOUSE MCC ROOM
DS-06	0	DEMOLITION BERTH BASIN SECTION AT EXISTING BENT 67
DS-07	0	DEMOLITION DETAILS
DS-08	0	DEMOLITION DETAILS
NEW CONSTRUCT	ION	
MA-01	0	NEW SHEET PILE WALL INDEX OF PLAN AREAS
MA-02	0	NEW SHEET PILE WALL AREAS 2 & 3 WALL PLANS
MA-03	0	NEW SHEET PILE WALL AREAS 4 & 5 WALL PLANS
MA-04	0	NEW SHEET PILE WALL AREAS 2 & 3 RELIEVING PLATFORM DECK REPAIR PLANS
MA-05	0	NEW SHEET PILE WALL AREAS 4 & 5 RELIEVING PLATFORM DECK REPAIR PLANS
MA-06	0	NEW SHEET PILE WALL AREAS 2, 3, 4, & 5 TYPICAL SECTION THRU NEW WALL
MA-07	0	NEW SHEET PILE WALL DETAILS
MA-08	0	NEW SHEET PILE WALL DETAILS
MA-09	0	NEW SHEET PILE WALL DETAILS
MA-10	0	NEW SHEET PILE WALL RETURN WALL ELEVATION
MA-11	0	NEW SHEET PILE WALL RETURN WALL TYPICAL SECTIONS
UTILITY PLANS		
U-01	0	NEW SHEET PILE RETAINING WALL AREAS 2 & 3 UTILITY PLANS
U-02	0	NEW SHEET PILE RETAINING WALL AREAS 4 & 5 UTILITY PLANS
U-03	0	NEW SHEET PILE RETAINING WALL UTILITY DETAILS



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BASIS OF DESIGN

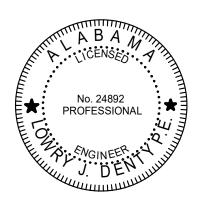
1. THE NEW BULKHEAD STARTING AT EXISTING BENT 68 AND ENDING AT EXISTING BENT 1 IS AN INDEPENDENT CANTILEVER WALL. THE EXISTING PIER MAY BE REMOVED IN THE FUTURE WITHOUT ANY TEMPORARY OR PERMANENT SUPPORT AT THE TOP OF THIS PORTION OF WALL. THE EXISTING RELIEVING PLATFORM IS USED TO REDUCE THE LIVE LOAD SURCHARGE ON THE NEW WALL. REFER TO SHEET GA-06 FOR LIVE LOAD DESIGN LOADING.

2. THE NEW BULKHEAD PARALLEL TO EXISTING BENT 1 IS SUPPORTED AT THE TOP BY THE EXISTING PIER STRUCTURE. PRIOR TO REMOVING THE EXISTING PIER IN THE FUTURE, THIS PORTION OF WALL WOULD NEED TO BE EVALUATED FOR TEMPORARY OR PERMANENT SUPPORT AT THE TOP AND/OR REDUCE SURCHARGE LOADING UNTIL NEW SUPPORT IS INSTALLED.

SHEET PILE WALL REPLACEMENT SUMMARY OF WORK

THE MAJOR COMPONENTS INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

- 1. PARTIAL DEMOLITION AND LEGAL DISPOSAL OF EXISTING RELIEVING PLATFORM CONCRETE SLAB-ON-GRADE (BENTS 1 TO 68) 2. PARTIAL DEMOLITION AND LEGAL DISPOSAL OF EXISTING ASPHALT AND RAILROAD TRACKS (WEST OF RETURN WALL AT BENT 1)
- 3. EXCAVATE WEST OF RETURN WALL AT BENT 1 4. DISCONNECT ACTIVE EXISTING UTILITIES THAT EXTEND THROUGH EXISTING TIMBER WALL AND RECONNECT AFTER NEW STEEL
- WALL IS INSTALLED (LIMIT OUTAGE TIME) 5. INSTALL NEW STEEL SHEET PILE WALL (BENTS 1 TO 68 AND ALONG RETURN WALL AT BENT 1)
- 6. INSTALL FLOWABLE FILL IN VOIDS UNDERNEATH THE RELIEVING PLATFORM
- 7. PARTIAL DEMOLITION AND LEGAL DISPOSAL OF EXISTING TIMBER BULKHEAD
- 8. INSTALL NEW CONCRETE CAP FOR THE FULL LENGTH OF NEW STEEL SHEET PILE WALL
- 9. FILL EXCAVATION WEST OF RETURN WALL ALONG BENT 1 AND PLACE NEW CONCRETE SLAB. REPLACE RAILROAD TRACKS 10. INSTALL NEW PORTION OF RELIEVING PLATFORM CONCRETE SLAB



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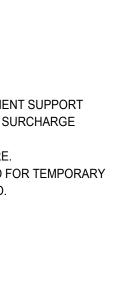
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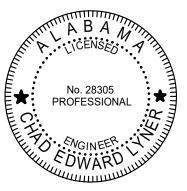
LOWRY J. DENTY, P.E. NO. 24892

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS:

GA-02	-	GA-06
DS-01	-	DS-08
MA-01	-	MA-11

	Mott MacDonald	Client									Designed JQ		Eng Check KP				
Μ	107 St. Francis Street Suite 2900	ALABAMA STATE PORT AUTHORITY						ISSUED FOR BID				KWD	мс	Coordination	LJD		I IER B SOOTH
	Mobile, Alabama 36602 United States of America														SHEET INDEX AND SUMMARY OF		
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CHAD EDWARD LYNER, P.E. NO. 28305

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS:

U-01 - U-03

A. GENERAL NOTES

- 1. THESE NOTES CONTAIN GENERAL INFORMATION; CONTRACTOR SHALL VERIFY ALL INFORMATION PROVIDED HEREIN WITH THE TECHNICAL SPECIFICATIONS AND CONTRACT DOCUMENTS AND SHALL NOTIFY THE EOR IN WRITING OF ANY CONFLICTS BEFORE WORK IS INITIATED. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS THE MORE STRINGENT PROVISION SHALL GOVERN.
- 2. COMPLY WITH REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, OSHA, AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, REGULATIONS, AND LAWS THAT HAVE BEEN ADOPTED AT THE TIME OF THE BID PROCUREMENT.
- 3. ANY DISCREPANCIES, OMISSIONS, OR VARIATIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS DISCOVERED DURING THE BIDDING PERIOD SHALL BE IMMEDIATELY COMMUNICATED IN WRITING TO THE EOR.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY.
- 5. ALL DIMENSIONS AND DETAILS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION.
- 6. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL, ENVIRONMENTAL PROTECTION STANDARDS, PERMITTING LAWS AND REGULATIONS. 7. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITY LINES FROM ANY DAMAGE. THE CONTRACTOR SHALL ALSO PROTECT THE WORK, ADJACENT PROPERTY, AND THE PUBLIC. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACTIONS OR NEGLECT.
- 8. CONTRACTOR SHALL COORDINATE WITH THE PORT & EOR FOR THE LOCATION AND EXTENTS OF STAGING AREAS PRIOR TO MOBILIZATION.

9. LOCATION OF EXISTING UTILITIES SHOWN ARE TO BE CONSIDERED APPROXIMATE, ALL UTILITIES MAY NOT BE SHOWN.

- 10. CONTRACTOR SHALL VERIFY AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES, SHOWN OR NOT SHOWN IN THE CONSTRUCTION DRAWINGS BEFORE GROUND DISTURBING ACTIVITIES AND DEMOLITION BEGINS. ANY UNDERGROUND UTILITY LINES LOCATED IN THE PROJECT AREA SHALL BE PROTECTED UNLESS SPECIFICALLY CALLED OUT ON THE DRAWINGS TO BE DEMOLISHED. THE CONTRACTOR SHALL PREMARK ALL AREAS WHERE EXCAVATION AND GRADING OPERATIONS ARE TO OCCUR AND SHALL CONTACT THE PORT AND THE EOR 48 HOURS PRIOR TO THE START OF ONSITE CONSTRUCTION ACTIVITIES. 11. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF SITE CONDITIONS TO DEVELOP AN APPROPRIATE WORK PLAN PRIOR TO MOBILIZATION AND CONDUCTING ANY WORK AT THE SITE.
- 12. CONTRACTOR SHALL VERIFY THE CONDITION OF THE EXISTING PIER PRIOR TO APPLYING CONSTRUCTION LOADING AND PERFORMING ANY DEMOLITION WORK. 13. THE SITE IS SUBJECT TO PERIODIC FLUCTUATIONS IN WATER LEVELS AS A RESULT OF TIDES AND LARGE PASSING VESSELS IN THE RIVER. CONTRACTOR IS REQUIRED TO EXAMINE THE WORK AREA AND MAKE DETERMINATIONS REGARDING THE EFFECT OF WATER LEVEL FLUCTUATIONS ON ALL CONSTRUCTION WORK ACTIVITIES AND OPERATIONS.
- 14. CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH THE ALABAMA STATE PORT REQUIREMENTS USING ADEQUATE BARRICADES,
- CONSTRUCTION SIGNS, AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK. 15. CONTRACTOR SHALL MAINTAIN A TURBIDITY CURTAIN AS INDICATED IN APPENDIX C OF THE PROJECT SPECIFICATIONS.

B. REFERENCE DOCUMENTS

1. DESIGN AND CONSTRUCTION OF ALL STRUCTURES AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE DESIGN CODES AND STANDARDS PROVIDED BELOW.

DISCIPLINE	STANDARD/REFERENCE	TITLE
	ASPA TECHNICAL SPECIFICATIONS	SECTION 01015- SPECIAL CONDITION AND PRECAUTIONARY MEASURES GOVERNING WORK AT ALABAMA STATE PORT.
SAFETY	OSHA 29 CFR 1926	SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION
	AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
	ASCE 7-18	MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
STRUCTURAL	ACI 318-14	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
	ACI 301-10	SPECIFICATIONS FOR STRUCTURAL CONCRETE
	AWS D1.1	STRUCTURAL WELDING CODE, 2015
	STEEL STRUCTURES PAINTING COUNCIL (SSPC)	SYSTEMS AND SPECIFICATIONS SSPC PAINTING MANUAL, VOL. 2
	IBC 2018	INTERNATIONAL BUILDING CODE, 2018
	CITY OF MOBILE ZONING AND DEVELOPMENT CODE	
	ALDOT STANDARD SPECS FOR ROAD AND BRIDGE CONSTRUCTION.	ALDOT STANDARD SPECIFICATION 2020
CIVIL/ ROADWAY	USDOT / FHWA MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION (REV. 2012)
	ALDOT PPM VOL. I	PLANS PREPARATION MANUAL VOL. 1
	ALABAMA MANUAL FOR DEVELOPING PLANS DESIGNING BEST MANAGEMENT PRACTICES	ALABAMA HANDBOOK FOR EROSION CONTROL,SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, VOL 1. 2018.
	UFC 4-152-01	DESIGN OF PIERS AND WHARVES, 2015
MARINE	UFC 4-151-10	GENERAL CRITERIA FOR WATERFRONT CONSTRUCTION, 2001
	US ARMY CORPS OF ENGINEERS	COASTAL ENGINEERING MANUAL, 2003



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C. PROJECT DATUM

1. STRUCTURE ELEVATIONS WERE OBTAINED FROM A TOPOGRAPHIC SURVEY CONDUCTED BY LAWLER AND COMPANY, DATED 11 SEPT 2018. ALL ELEVATIONS ARE REFERENCED TO NAVD88.

D. SHOP DRAWINGS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE STEEL SHEET PILE WALL TO THE EOR FOR REVIEW PRIOR TO THE PURCHASE OR FABRICATION OF ANY SHEET PILE.

2. ADDITIONAL SHOP DRAWING SUBMITTAL REQUIREMENTS ARE IN THE TECHNICAL SPECIFICATIONS.

E. ENVIRONMENTAL PERMITS

1. ALL CONSTRUCTION SHALL IMPLEMENT AND ABIDE BY ALL REGULATORY AND ENVIRONMENTAL REQUIREMENTS AS SPECIFIED IN THE ENVIRONMENTAL PERMITS SECURED BY THE PORT FOR THE PROJECT.

F. GEOTECHNICAL INVESTIGATION

NECESSARY TO BID OR PERFORM THE WORK.

1. GEOTECHNICAL INVESTIGATIONS WERE UNDERTAKEN BY GEOTECHNICAL ENGINEERING - TESTING, INC. (GET). THESE INVESTIGATIONS CONSISTED OF DRILLING A SERIES OF ONSHORE BOREHOLES AND TO DEVELOP THE GEOTECHNICAL DESIGN PARAMETERS ASSOCIATED WITH THE SITE PREPARATION AND STRUCTURAL FOUNDATION DESIGN OF PIER B SOUTH. AVAILABLE GEOTECHNICAL INFORMATION IS PROVIDED BY GET IN THEIR FINAL REPORT "ALABAMA STATE PORT AUTHORITY PIER B SOUTH RENOVATION" DATED 3-27-2020. 2. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE SOIL CONDITIONS PRESENT AT THE PROJECT SITE PRIOR TO BIDDING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND CONDUCT AT THEIR OWN EXPENSE ANY ADDITIONAL GEOTECHNICAL TESTING BELIEVED TO BE

G. MATERIAL SALVAGE

1. ALL MATERIAL NOT SPECIFICALLY CALLED OUT ON THE PLANS TO BE SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

H. CLOSEOUT DOCUMENTS

1. THE CONTRACTOR SHALL PROVIDE CLOSEOUT DOCUMENTS, INCLUDING AS-BUILT DRAWINGS AND OPERATIONS AND MAINTENANCE (0&M) MANUALS, AS REQUIRED.

I. SELECT FILL :

1. REFER TO TECHNICAL SPECIFICATION SECTION 02300 - EARTHWORK

J. SURVEY NOTES

1. HORIZONTAL SURVEY CONTROL HAS BEEN ESTABLISHED AT THE SITE AS SHOWN USING THE BENCHMARK AND CONTROL POINTS AS SHOWN BELOW AND ON THE SURVEY DRAWING LOCATED IN DIVISION V APPENDIX. ANY MONUMENTS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS OR AS THE RESULT OF EROSION SHALL BE RESET BY THE CONTRACTOR IN ACCORDANCE WITH RECOGNIZED ENGINEERING AND SURVEYING PRACTICE.

2. PROJECT BENCHMARKS ARE AS FOLLOWS:

BENCHMARKS								
ID	NORTHING	EASTING	ELEVATION (NAVD88)	DESCRIPTION				
CP-1	258142.756	1797295.174	8.749 FT	X ON ELECTRICAL MANHOLE				
CP-3	258181.418	1797516.166	9.996 FT	X ON DRAIN GRATE				
CP-4	257731.999	1797574.584	9.851 FT	X ON STEEL RAIL				
BM-1	257474.390	1798886.580	10.030 FT	BENCHMARK AT EAST END OF PIER B				

K. TEMPORARY OPERATIONS

L. ABBREVIATIONS INDEX

AB	ANCHOR BOLT
APPROX	APPROXIMATE OR APPROXIMATELY
AWS	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BC	BOLT CIRCLE
BD	BREASTING DOLPHIN
B/F	BACK FACE
BM	BEAM
BOT	BOTTOM
B.O.	BOTTOM OF
BOS	BOTTOM OF STEEL
C/C	CENTER TO CENTER
CL OR Q	
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CP	CONTROL POINT
CTRD	CENTERED
DET	DETAIL
DIA OR Ø	DIAMETER
DWG	DRAWING
EA	EACH
EF	EACH FACE
EL:	ELEVATION (HEIGHT)
ELEV	ELEVATION (VIEW)
EOR	ENGINEER OF RECORD
EQ	EQUAL OR EQUALLY
EQIP	EQUIPMENT
EW	EACH WAY
EWEF	EACH WAY, EACH FACE
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
E/	FACE OF
GALV	GALVANIZED
GEN	GENERAL
HB	HIGH STRENGTH BOLLARD
HORIZ	HORIZONTAL
-	
HSB	HIGH STRENGTH BOLT
ID	
INCL	INCLUDING
JT	JOINT
LOC	LOCATION
LG	LONG

M. SYMBOL LEGEND

----- PROPERTY LINE _____ PROJECT BOUNDARY LINE

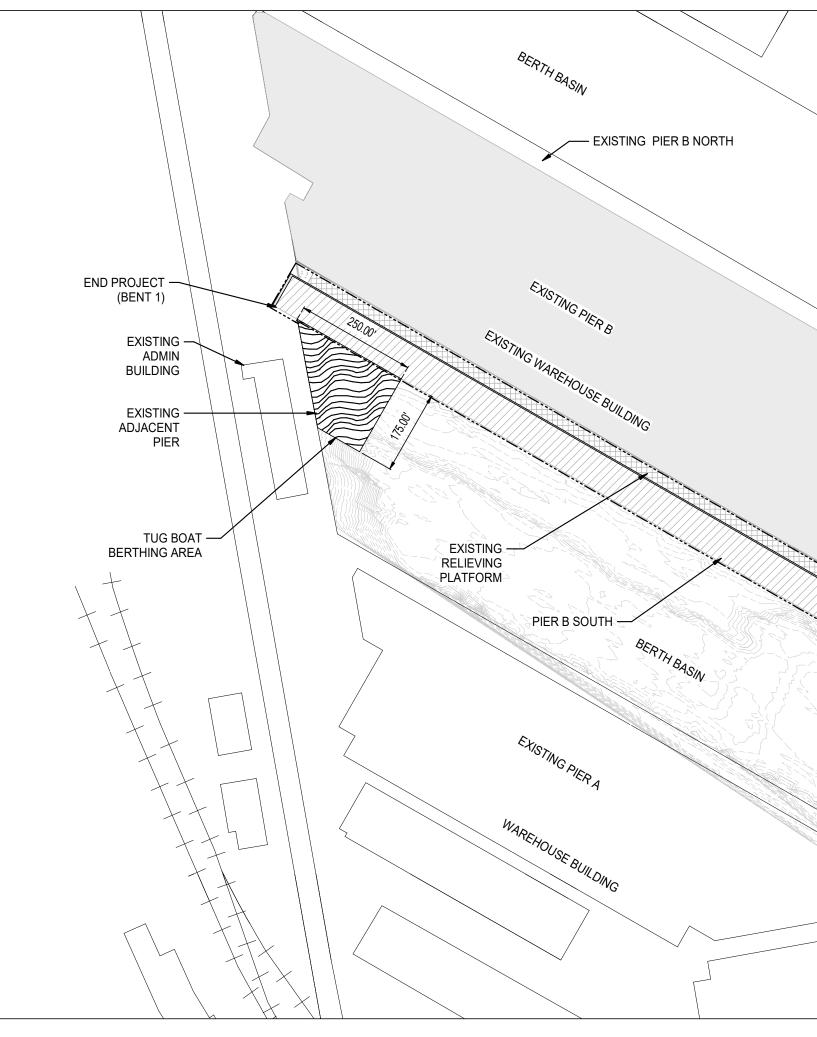
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Μ	Suite 2900 Mobile, Alabama 36602	ALABAMA STATE		4892 ALABAMA - CERTIFICATION NUMBER	Drawn KWD MC	Coordination LJD	
Μ	United States of America Telephone: (251) 343-4366	PORT AUTHORITY		E★ PROFESSIONAL PROFESSIONAL 01/19/22 ↓]	Dwg Check CEL Approved BP		GENERAL NOTES AND
MOTT ■▼■ MACDONALD	www.mottmac.com/americas				Scale at ANSI D Status	Rev Security	ABBREVIATIONS
				KKW J. DENULUU	None BID	0 STD	
		MOBILE, ALABAMA		Project Number B/O Total	Drawing Number		
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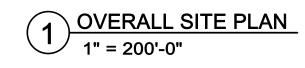
1. WORK AT THE PIER B SOUTH TERMINAL MUST BE COORDINATED TO ALLOW CONTINUOUS BERTHING OF CARGO VESSELS ON THE OPPOSITE SIDE OF THE SLIP (PIER A), AND ONE (1) TUGBOAT TO MOOR AT THE WEST END OF THE SLIP ON PIER B. 2. THE TUGBOAT BERTHING AREA SHOWN ON THE OVERALL SITE PLAN MUST REMAIN ACCESSIBLE FOR TUGBOAT MOORING AND BERTHING. IF THE CONTRACTOR

NEEDS TO TEMPORARILY USE SUCH AREA FOR CONSTRUCTION ACTIVITIES, THEY SHALL COORDINATE WITH AND OBTAIN APPROVAL FROM THE PORT FOR THE TEMPORARY RELOCATION OF THE TUGBOAT BERTHING AND MOORING AREA TO A DIFFERENT LOCATION WITHIN PIER B.

Y	LSH MAX MD MISC MIN NIC NTS OC OD O/F OPP PL OR PL PT RAD R/C REF REINF REINF REQD SC SIM S/T SPA SPCD SPCG SPEC SSH STD STIFF STL SUPT SYMM THK T/ TYP UON USACE VERT	LONG SLOTTED HOLES MAXIMUM MOORING DOLPHIN MISCELLANEOUS MINIMUM NOT IN CONTRACT NOT TO SCALE ON CENTER OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE PLATE PRESSURE TREATED RADIUS REINFORCED CONCRETE REFERENCE REINFORCED CONCRETE REFERENCE REINFORCEMENT OR REINFORCING REQUIRED SLIP CRITICAL SIMILAR SNUG TIGHTEN SPACE OR SPACES SPACED SPACING SPECIFICATION SHORT SLOTTED HOLES STANDARD STIFFENER STEEL SUPPORT SYMMETRICAL THICK OR THICKNESS TOP OF TYPICAL UNLESS OTHERWISE NOTED U.S. ARMY CORPS OF ENGINEERS VERTICAL
	UON USACE	UNLESS OTHERWISE NOTED U.S. ARMY CORPS OF ENGINEERS

WORK POINT



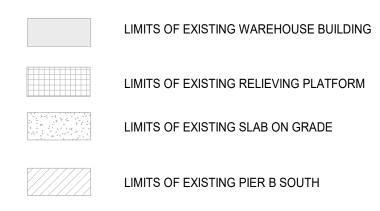




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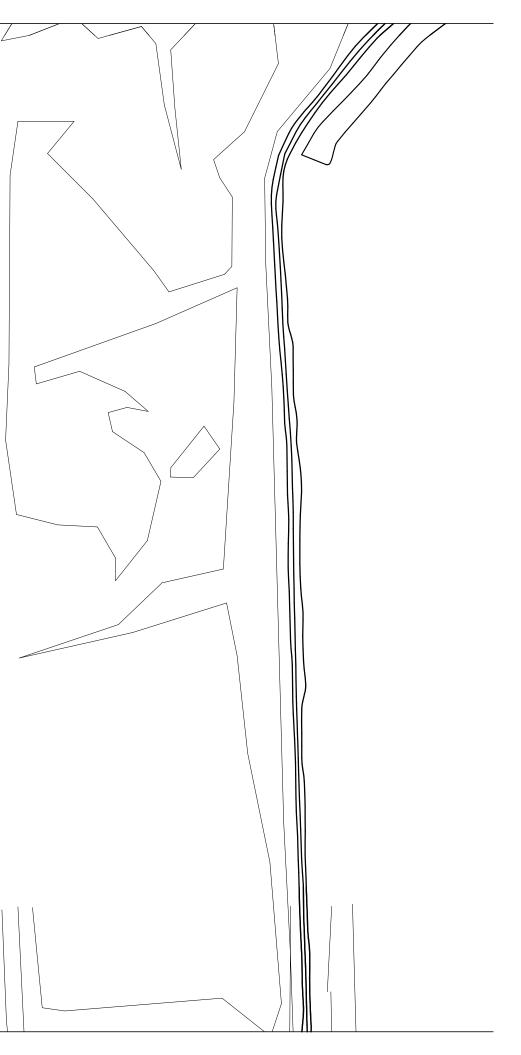
	Mott MacDonald 107 St. Francis Street	Client							LOWRY J. DENTY, P.E.	A B A Mining		Designed J	IQ
M MOTT MACDONALD	Suite 2900 Mobile, Alabama 36602 United States of America Telephone: (251) 343-4366 www.mottmac.com/americas	ALABAMA STATE PORT AUTHORITY							24892 ALABAMA - CERTIFICATION NUMBER	 № 24892 PROFESSIONAL 01/19/22 01/19/22 01/19/22 01/19/24 		Drawn M Dwg Check C Scale at ANSI As Show	D Status
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LEGEND

(Q STATE RO - BEGIN PROJECT (BENT 68) ARC MOBILE - NAVIGATION CHANNEL LIMITS . / PIER A





TUG BOAT BERTHING AREA

----- PROJECT LIMITS

Title Eng Check KP PIER B SOUTH Coordination LJD OVERALL SITE PLAN Approved BP Security Rev STD 0 A-04

A. GENERAL

- 1. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS BUILDINGS, SEWERS DRAINS, WATER OR GAS PIPES, CONDUITS, CABLES, POLES, WALLS, POSTS, ETC. ARE TO BE CAREFULLY PROTECTED. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO REMOVING ANY OBSTRUCTIONS NOT SPECIFICALLY NOTED ON THE PLANS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION PLANNING AND EXECUTION IN A SAFE MANNER.
- 3. IT IS RECOGNIZED THAT THE PROJECT CANNOT BE COMPLETED WITHOUT IMPACTING THE PIER DECK. THE PIER FOOTPRINT AND PERIMETER AREAS TO BE DISTURBED DURING THE DEMOLITION SHALL BE SUBJECT TO A PRE AND POST CONSTRUCTION INSPECTION TO ENSURE THAT ALL STRUCTURES TO REMAIN WERE NOT DAMAGED DURING THE EXECUTION OF THE PROJECT, AS REQUIRED.
- 4. CONTRACTOR IS TO BECOME FAMILIAR WITH THE EXISTING PIER PRIOR TO COMMENCING DEMOLITION. CONTRACTOR SHALL PREPARE A WRITTEN DEMOLITION PLAN AND SUBMIT TO EOR. PLAN SHALL DETAIL THE METHODOLOGY AND SEQUENCE OF DEMOLITION. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO ENSURE JOB SITE & HUMAN SAFETY.
- 5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE DEMOLITION WITHIN THE LIMITS OF THE REQUIRED WORK ZONE AND AVOID ANY DAMAGE TO EXISTING STRUCTURES AND UTILITY LINES THAT ARE TO REMAIN.
- 6. ANY DAMAGE INCURRED IN EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY AND/OR STRUCTURE NOT SPECIFICALLY DESIGNATED FOR DEMOLITION SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 7. THE CONTRACTOR SHALL USE METHODS/PROCEDURES DEEMED APPROPRIATE FOR DEMOLITION OF STRUCTURE SHOWN. DEMOLITION BY EXPLOSIVES IS PROHIBITED.
- 8. THE CONTRACTOR SHALL PLACE DEBRIS CONTROL DEVICES, STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT DEBRIS, AND AIRBORNE MATERIALS FROM LEAVING THE WORK ZONE. WATER SPRAY AND OTHER APPROPRIATE METHODS SHALL BE USED AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA.
- 9. NO CONCRETE CRUSHING ALLOWED ON SITE.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF ALL EXISTING STRUCTURES AS DEFINED IN THE DRAWINGS.
- 11. THE CONTRACTOR SHALL DEMOLISH EXISTING WOOD BULKHEAD ONLY AS REQUIRED FOR CONSTRUCTION OF THE NEW BULKHEAD AND CONCRETE CAP. REFER TO DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION EXTENTS.
- 12. ALL MATERIALS DEMOLISHED, REMOVED AND/OR DISCARDED SHALL BE REMOVED FROM THE PROJECT SITE TO AN APPROVED DISPOSAL FACILITY. 13. DEMOLITION AND REMOVAL WORK SHALL PROCEED IN A MANNER THAT PREVENTS COLLAPSE OR DAMAGE TO THE EXISTING STRUCTURES THAT ARE DESIGNATED TO REMAIN. THE RELEASE OF CONSTRUCTION DEBRIS INTO THE WATERWAY IS PROHIBITED.

B. SITE ACCESS AND LOGISTICS

- 1. SCHEDULE FOR ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE ALABAMA STATE PORT SO AS TO MINIMIZE IMPACT TO ALABAMA STATE PORT ACTIVITIES.
- 2. THE CONTRACTOR SHALL ABIDE AND ENFORCE ACCESS REGULATIONS AND REQUIREMENTS TO THE PIER DURING CONSTRUCTION.
- 3. PARKING AND LAYDOWN AREAS SHALL BE COORDINATED WITH THE ALABAMA STATE PORT PRIOR TO MOBILIZATION.
- 4. APPLICATION OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES FOR THE PROJECT SHALL BE IN ACCORDANCE WITH PROCEDURES AND
- SPECIFICATIONS OF THE CURRENT ALABAMA EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION; BEST MANAGEMENT PRACTICES. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES DURING CONSTRUCTION.
- 6. ALL PAVED AREAS DISTURBED SHALL BE PATCHED WITH 5,500 PSI CONCRETE UNLESS OTHERWISE SPECIFIED.

<u>C. UTILITIES</u>

- 1. TEMPORARY DISRUPTION TO THE EXISTING UTILITIES ARE REQUIRED FOR NEW CONSTRUCTION. COORDINATE SCHEDULED OUTAGES WITH ASPA AND EOR 72 HOURS PRIOR TO PERFORMING WORK. TIME OF OUTAGES SHALL BE PRE-APPROVED BY THE OWNER AND SHALL MINIMIZE DISRUPTION OF ASPA'S DAILY OPERATIONS.
- 2. TEMPORARY ELECTRIC SERVICE, AS REQUIRED DURING THE DURATION OF CONSTRUCTION, IS THE RESPONSIBILITY OF THE CONTRACTOR. 3. THE CONTRACTOR SHALL NOT MAKE ANY OPENING OR EXCAVATION WITHIN THE PROJECT AREA UNTIL CONTACT HAS BEEN MADE WITH 'DIG SAFE' AND ALL
- UTILITIES TO LOCATE ANY EXISTING POWER, TELEPHONE, CABLE TV, WATER OR OTHER UNDERGROUND SERVICES. 4. THE UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE PROVIDED AS A GUIDE TO THE CONTRACTOR. NO GUARANTEE IS MADE THAT UTILITIES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS IN THE FIELD
- AND BE RESPONSIBLE FOR REPAIR OF UTILITIES DISTURBED DURING CONSTRUCTION. 5. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE EXECUTION OF WORK UNDER THIS CONTRACT SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR INCREASE TO CONTRACT TIME. THE OWNER DOES NOT ASSUME OR IMPLY TO ANY LIABILITY FOR THE LOCATION, PROTECTION, AND/OR REPAIR OF ANY EXISTING UTILITIES THAT MAY OCCUPY JOINT RIGHT-OF-WAY OR OTHERWISE CONFLICT WITH THE DEMOLITION TO BE PERFORMED UNDER THIS CONTRACT.

D. MATERIAL DISPOSAL

- 1. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR COSTS ASSOCIATED WITH MATERIAL DISPOSAL.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR LEGAL DISPOSAL OF ALL CONSTRUCTION DEBRIS AT AN APPROVED FACILITY IN ACCORDANCE WITH ALL APPLICABLE LOCAL STATE AND FEDERAL REGULATORY REQUIREMENTS.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE MATERIALS TO BE DISPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING PIER COMPONENTS FROM THE SITE THAT ARE NOT SPECIFIED FOR REUSE OR SELECTED FOR RETAINAGE BY THE OWNER.
- 5. ALL DEBRIS SHALL BE SEPARATED AND DISPOSED OF IN A MANNER CONSISTENT WITH THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) SOLID WASTE FACILITY DISPOSAL GUIDELINES. DISPOSAL SITE OR LANDFILL USED FOR DISPOSITION OF MATERIAL SHALL BE AUTHORIZED BY ADEM AND SHALL HAVE A MOBILE COUNTY SOLID WASTE MANAGEMENT PERMIT IF DISPOSING IN MOBILE COUNTY.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING STAGING AND DISPOSAL OF DEBRIS FOLLOWING THESE GUIDELINES AND AS OTHERWISE SPECIFIED. 7. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING DEBRIS DISPOSAL INFORMATION PRIOR TO START OF WORK:

FACILITY NAME ADDRESS OF FACILITY ADEM PERMIT NUMBER COUNTY PERMIT NUMBER LANDFILL TICKET FOR EACH LOAD

E. ADJACENT BUILDING MONITORING

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING OF ON-SITE, ADJACENT WAREHOUSE AND STRUCTURES LOCATED WITHIN 500 FEET FOR SETTLEMENT AND DAMAGE AS APPLICABLE WITHIN THE LIMITS SPECIFIED HEREIN, AND NOTIFY THE EOR AND PORT OF ANY OBSERVED SETTLEMENT OR DISPLACEMENT.
- 2. CONTRACTOR SHALL NOT DEVIATE FROM RECOMMENDATIONS FOR METHODOLOGY NOTED ON THESE PLANS, ALDOT STANDARDS, AS WELL AS VIBRATION MONITORING PLAN TO BE SUBMITTED BY THE CONTRACTOR AS PART OF THE DEMOLITION REQUIREMENTS.
- 3. CONTRACTOR'S RETAINED TESTING AGENCY SHALL OVERSEE AND APPROVE THE IMPLEMENTATION OF THE MONITORING METHODOLOGY AND PROCESSES. 4. SHOULD ANY MOVEMENT OR DAMAGE BE DETECTED, THE CONTRACTOR SHALL CEASE DEMOLITION AND RELATED ACTIVITIES AND IMMEDIATELY NOTIFY THE PORT AND ENGINEER. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL METHODS FOR MITIGATION OF NOTED MOVEMENT BEFORE RESUMING ACTIVITIES.
- 5. ALL FACILITIES AND STRUCTURES DAMAGED DURING DEMOLITION SHALL BE RESTORED TO THEIR ORIGINAL DOCUMENTED CONDITION AND TO THE REASONABLE SATISFACTION OF THE AFFECTED PROPERTY OWNER AT THE CONTRACTOR'S SOLE EXPENSE.

F. EXISTING REFERENCE DOCUMENTS

- 1. REFER TO EXISTING DRAWINGS LISTED BELOW FOR SIZES, MATERIAL AND TYPE OF CONSTRUCTION PRIOR TO BIDDING AND DEMOLITION.
- a. ALABAMA STATE DOCKS COMMISSION, CONCRETE WHARF PIER NO. 2, DATED 1925.
- b. ALABAMA STATE DOCKS DEPARTMENT, PIER "B" SOUTH WAREHOUSE REHABILITATION PILE SUPPORTED RELIEVING PLATFORM, DATED 1987.
- c. ALABAMA STATE PORT AUTHORITY, PIER B SURVEY DATED SEPTEMBER 11, 2018.



Client

ALABAMA STATE PORT AUTHORITY

Μ	Mott MacDonald 107 St. Francis Street Suite 2900 Mobile, Alabama 36602	Client ALABAMA STATE						24892 ALABAMA - CERTIFICATION NUMBER	B A CENSEO A A A A A A A A A A A A A A A A A A A	Designed Drawn	JQ
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A. DESIGN CRITERIA

SITE ELEVATIONS

- 1. THE FOLLOWING TIDE LEVELS ARE REFERENCED TO NAVD88 FROM NOAA STATION MOBILE STATE DOCKS, AL-STATION ID 8737048.
- 2. STRUCTURE ELEVATIONS WERE OBTAINED FROM THE TOPOGRAPHIC SURVEY CONDUCTED BY LAWLER AND COMPANY, DATED 11 SEPT 2018. ALL ELEVATIONS ARE REFERENCED TO NAVD88.

B. DESIGN LOADS

1. TARGET DESIGN LIFE:

ELEMENT	TARGET DESIGN LIFE, YEARS	MAINTENANCE INTERVAL, YEARS
MARINE STRUCTURES - STRUCTURAL STEEL	75	15
MARINE STRUCTURES - STRUCTURAL CONCRETE	75	15
MARINE COATING SYSTEM	30	15 (OR AS REQUIRED)

2. DEAD LOADS

MATERIAL	UNIT WEIGHT (PCF)
STEEL OR CAST STEEL	490
CAST IRON	450
ALUMINUM ALLOYS	175
TIMBER (UNTREATED)	45-50
TIMBER (TREATED)	45-60
CONCRETE REINFORCED (NORMAL WEIGHT)	145-160
CONCRETE REINFORCED (LIGHTWEIGHT)	90-120

3. LIVE LOADS

COMPONENT	DESIGN LIVE LOAD
SURCHARGE ON BULKHEAD PARALLEL TO BENT 1	1000 PSF
SURCHARGE ON BULKHEAD (EX BENT 1 TO 68)	0 PSF
EXISTING RELIEVING PLATFORM	500 PSF

4. EARTHQUAKE LOADS (PER AASHTO)

ITEM	DESCRIPTION
SITE CLASS	D
PEAK GROUND ACCELERATION	0.07
HORIZONTAL RESPONSE	0.033
SITE FACTOR AT ZERO-PERIOD RANGE	1.6
SITE FACTOR (SHORT PERIOD)	1.6
SITE FACTOR (LONG PERIOD)	2.4
SEISMIC DESIGN CATEGORY	А
RISK CATEGORY	III
RISK TARGETED MAXIMUM CONSIDERED EARTHQUAKE	0.103
RISK TARGETED MINIMUM CONSIDERED EARTHQUAKE	0.058
RESPONSE MODIFICATION FACTOR	3
IMPORTANCE FACTOR	1.0

C. PROJECT DATUM

TIDE RANGE	
WATER CONDITION	NAVD 88 ELEVATION
MEAN LOWER LOW WATER ELEVATION	-0.41'
MEAN HIGHER HIGH WATER	1.16'
MEAN SEA LEVEL	-0.33'
MEAN LOW WATER	-0.40'
HIGHEST ASTRONOMICAL TIDE	1.87'
LOWEST ASTRONOMICAL TIDE	-1.70'
EXIST. TOP OF WALL ELEVATION	+10.0'



ALABAMA STATE PORT AUTHORITY

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D. SHEET PILING

1. STRUCTURAL STEEL ELEMENTS SHALL CONFORM TO THE SPECIFICATIONS AND GRADES AS FOLLOWS:

SHEET PILES ASTM A572 GR. 60

2. UPON COMPLETION OF THE PILE INSTALLATION, INSPECTION, AND APPROVAL, THE PILE SHALL BE NEATLY CUT ON PLANE NORMAL TO THE AXIS OF THE PILE AT THE ELEVATION SPECIFIED ON THE DRAWINGS.

3. AXIAL ALIGNMENT OF THE PILES AND SHEET PILES SHALL NOT DEVIATE BY MORE THAN 1/4 INCHES PER FOOT FROM THE VERTICAL. PULLING PILES INTO POSITION SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW AND APPROVAL BY THE DESIGN ENGINEER.

4. JETTING OF PILES FOR INSTALLATION SHALL NOT BE PERMITTED.

5. THE CONTRACTOR SHALL ANTICIPATE THE NEED TO UTILIZE CAST IRON POINTS OR DRIVING SHOES TO PENETRATE DENSE FOUNDATION MATERIAL WITHOUT CAUSING DAMAGE TO THE PILE TIP WERE USED, PILE POINTS AND SHOES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A148 AND SHALL BE MANUFACTURED BY SKYLINE OR APPROVED EQUAL.

6. TOLERANCES:

6.1 FINAL POSITIONS OF SHEET PILES AT CUTOFF SHALL NOT DEVIATE MORE THAN TWO (2) INCHES LATERALLY FROM THE LOCATIONS SHOWN ON THE CONTRACT DRAWINGS.

6.2 THE FINAL CUTOFF ELEVATIONS SHALL NOT DEVIATE MORE THAN 2 INCHES ABOVE, OR MORE THAN 3-1/2 INCHES BELOW, THE ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS. IN NO CASE SHALL THE SHEET PILE BE EMBEDDED LESS THAN 18" INTO THE PILE CAP.

7. PROPOSED SHEET PILE RETAINING WALL HAS BEEN DESIGNED TAKING INTO CONSIDERATION THE EXISTING SOIL SLOPE LOCATED TO THE SOUTHWEST OF THE WALL. THEREFORE, THE SLOPE PROFILE SHOWN ON THE DRAWINGS SHALL BE MAINTAINED AND NOT MODIFIED OR AFFECTED BY FUTURE BERTH DREDGING OR PIER IMPROVEMENTS.

E. REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 318, "BUILDING CODE

REQUIREMENTS FOR REINFORCED CONCRETE" FOR EXPOSURE CATEGORIES AND CLASSES F2, S1, W1, AND C2 AS DEFINED IN CHAPTER 19. THE CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW A MINIMUM OF TWO WEEKS PRIOR TO CASTING CONCRETE.

2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.

3. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 45 DEGREE CHAMFER, 1 IN., UNLESS OTHERWISE NOTED. 4. REINFORCING BARS SHALL CONFORM TO ASTM 615, GRADE 60.

5. CONCRETE COVER OVER REINFORCEMENT AND TIES, UNLESS OTHERWISE NOTED, SHALL BE 4 INCHES FOR BULKHEAD, AND SHALL MEET THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS.

6. ALL REINFORCEMENT SPLICES SHALL BE ACI CLASS B SPLICES UNLESS OTHERWISE NOTED ON DRAWINGS.

7. ALL REINFORCING BAR HOOKS SHALL BE ACI "STANDARD HOOKS" AND SHALL MEET THE MINIMUM BEND DIAMETER REQUIREMENTS OF ACI 318.

8. ALL FORM WORK SHALL REMAIN UNDISTURBED UNTIL CONCRETE HAS REACHED 70% OF ITS MINIMUM REQUIRED COMPRESSIVE STRENGTH.

9. CONCRETE FINISHES SHALL BE PER ACI 301-10 AND AS NOTED BELOW:

a. EXPOSED FACES OF BULKHEAD TO PUBLIC VIEW - SURFACE FINISH 3 b. NON-EXPOSED FACES OF BULKHEAD TO PUBLIC VIEW - SURFACE FINISH 2

c. TOP SURFACE OF NEW RELIEVING PLATFORM SECTIONS - BROOM FINISH

10. MEDIUM TO COARSE TEXTURED BROOM FINISH SHALL CONSIST OF 1/16 TO 1/8 OF AN INCH DEEP BROOM STRIATIONS CREATED WITH STIFF-BRISTLED BROOM

AND PERPENDICULAR TO THE LINE OF TRAFFIC.

11. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND FREE OF LAITANCE. 12. CONCRETE WORK SHALL BE CURED IN ACCORDANCE WITH STANDARD ACCEPTED PRACTICE AND AS SPECIFIED IN TECHNICAL SPECIFICATION SECTION 03300 -CAST IN PLACE CONCRETE.

F. TEMPORARY EXCAVATION AND SHORING

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF ANY REQUIRED TEMPORARY SHORING SYSTEMS AND TEMPORARY EXCAVATION SLOPES IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS FOR THE EXCAVATION AREAS DURING THE INSTALLATION OF PROJECT MATERIALS PRIOR TO BACKFILLING AND CONTRACTOR'S GEOTECHNICAL ENGINEER RECOMMENDATIONS.

G. COATINGS

1. STRUCTURAL STEEL COATING SHALL MEET THE REQUIREMENTS OF TECHNICAL SPECIFICATION SECTION 09 96 26 – MARINE COATINGS. THE SELECTED COATING MATERIAL SHALL BE LISTED ON THE ALDOT APPROVED PRODUCT LIST.

2. STEEL SHEET PILES SHALL BE COATED PER THE REQUIREMENTS OF TECHNICAL SPECIFICATIONS 09 96 26 MARINE COATINGS AND 31 41 16 STEEL SHEETPILE. 3. ALL STEEL SURFACES TO BE COATED SHALL BE PREPARED IN ACCORDANCE WITH SSPC-SP10, NEAR-WHITE BLAST CLEANING.

4. ALL COATING DAMAGE SHALL BE TOUCHED UP. COATING SHALL BE CONSIDERED DAMAGED WITHIN TWO (2) INCHES OF ANY FIELD WELD AND SHALL BE GRINDED AND RECOATED EVEN IF NO DAMAGE IS APPARENT.

H. CEMENT MORTAR FLOWABLE BACKFILL

1. FLOWABLE FILL SHALL BE EXCAVATABLE AND COMPLY WITH THE PROPORTIONS AND PROPERTIES OF MIX DESIGNATION 2 FROM ALDOT SPECIFICATION SECTION 260 - CEMENT MORTAR FLOWABLE BACKFILL.

2. THE FRESHLY PLACED MORTAR SHALL REMAIN UNDISTURBED BY CONSTRUCTION ACTIVITIES FOR A TIME PERIOD OF 16 HOURS.

3. DURING MIXING OPERATION - THE SAND, FLYASH AND CEMENT SHALL BE INTRODUCED IN THAT ORDER.

4. NO MORTAR SHALL BE PLACED WHEN THE AMBIENT TEMPERATURE IS BELOW 40 F.

I. EPOXY ANCHORING

1. EPOXY ANCHORING OF REINFORCEMENT BARS, DOWELS, AND BOLTS INTO CONCRETE SHALL BE MADE WITH HILTI HIT-RE500 V3 OR APPROVED EQUAL. INSTALLATION SHALL BE ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.

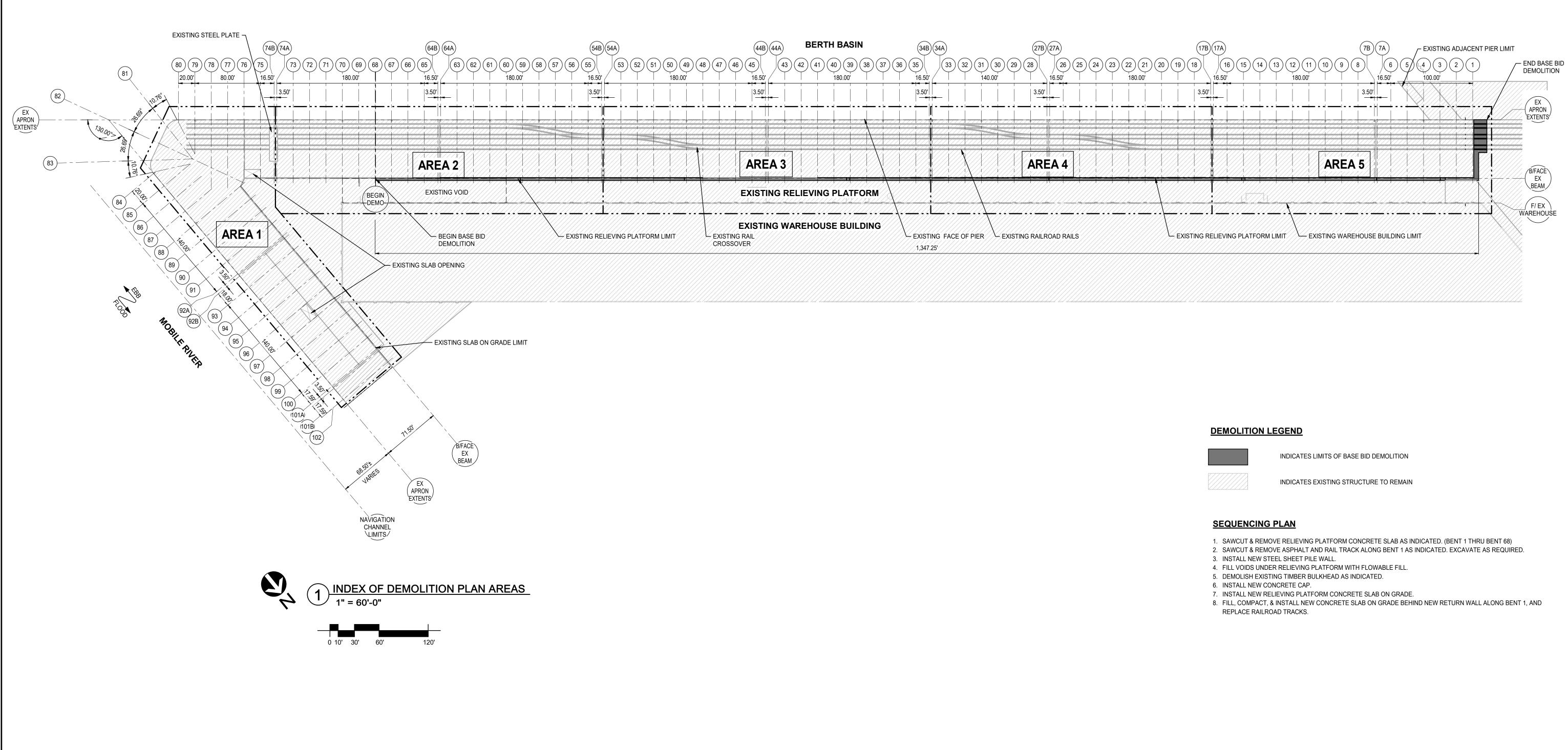
J. GEOFOAM

1. GEOFOAM SHALL BE EPS29 MEETING ASTM D6817 WITH A MINIMUM COMPRESSIVE RESISTANCE OF 1570 PSF AT 1% DEFORMATION.

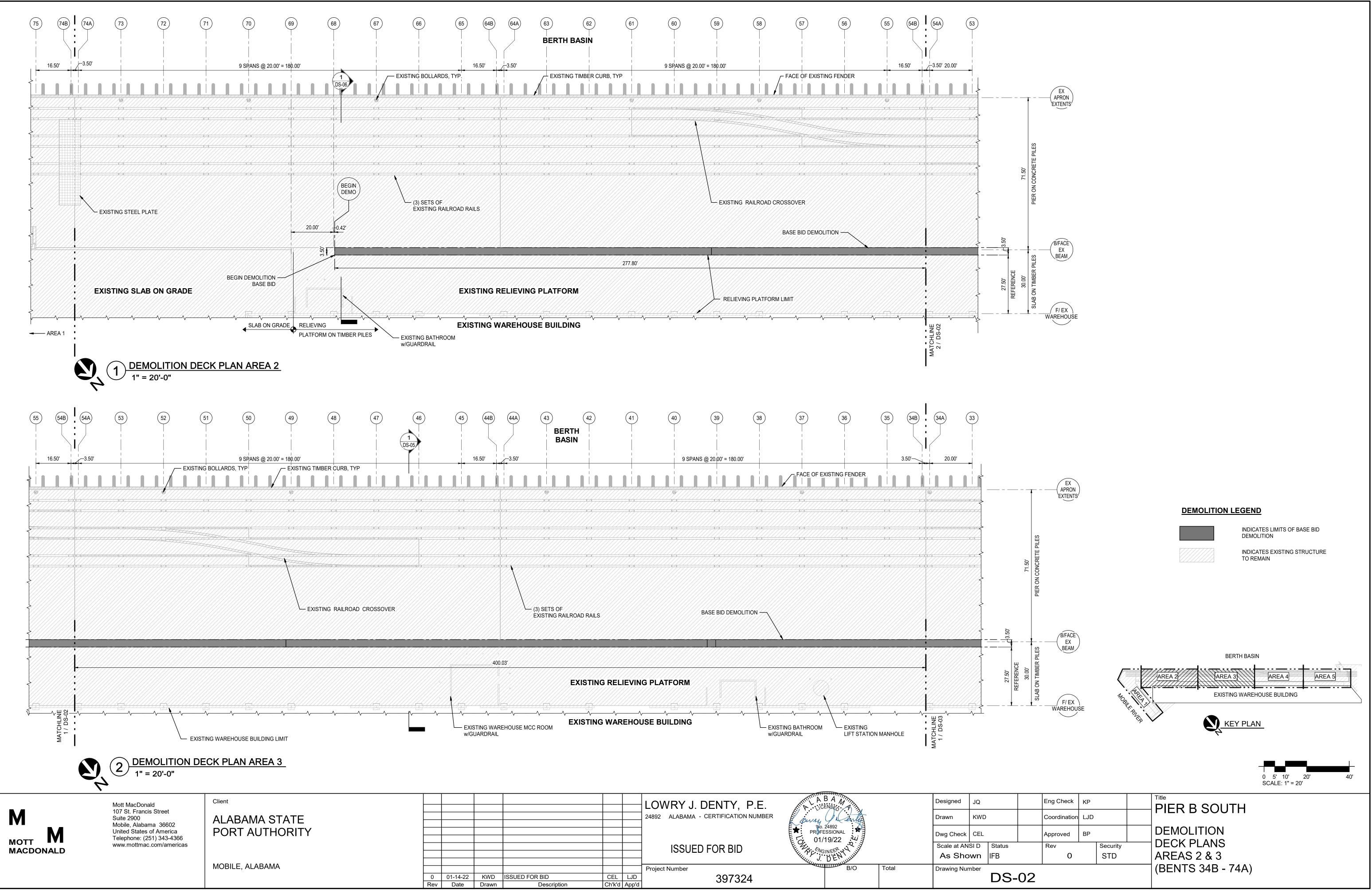
K. VIBRATIONS ON FRESHLY PLACED CONCRETE

1. ENSURE THAT FRESHLY PLACED CONCRETE IS NOT SUBJECTED TO VIBRATIONS GREATER THAN 1.5 INCHES PER SECOND FROM PILE DRIVING / VIBRATING SOURCES LOCATED WITHIN 30 FEET (FROM THE NEAREST OUTSIDE EDGE OF FRESHLY PLACED CONCRETE TO THE VIBRATION SOURCE) UNTIL THAT CONCRETE HAS ATTAINED ITS FINAL SET AS DEFINED BY ASTM

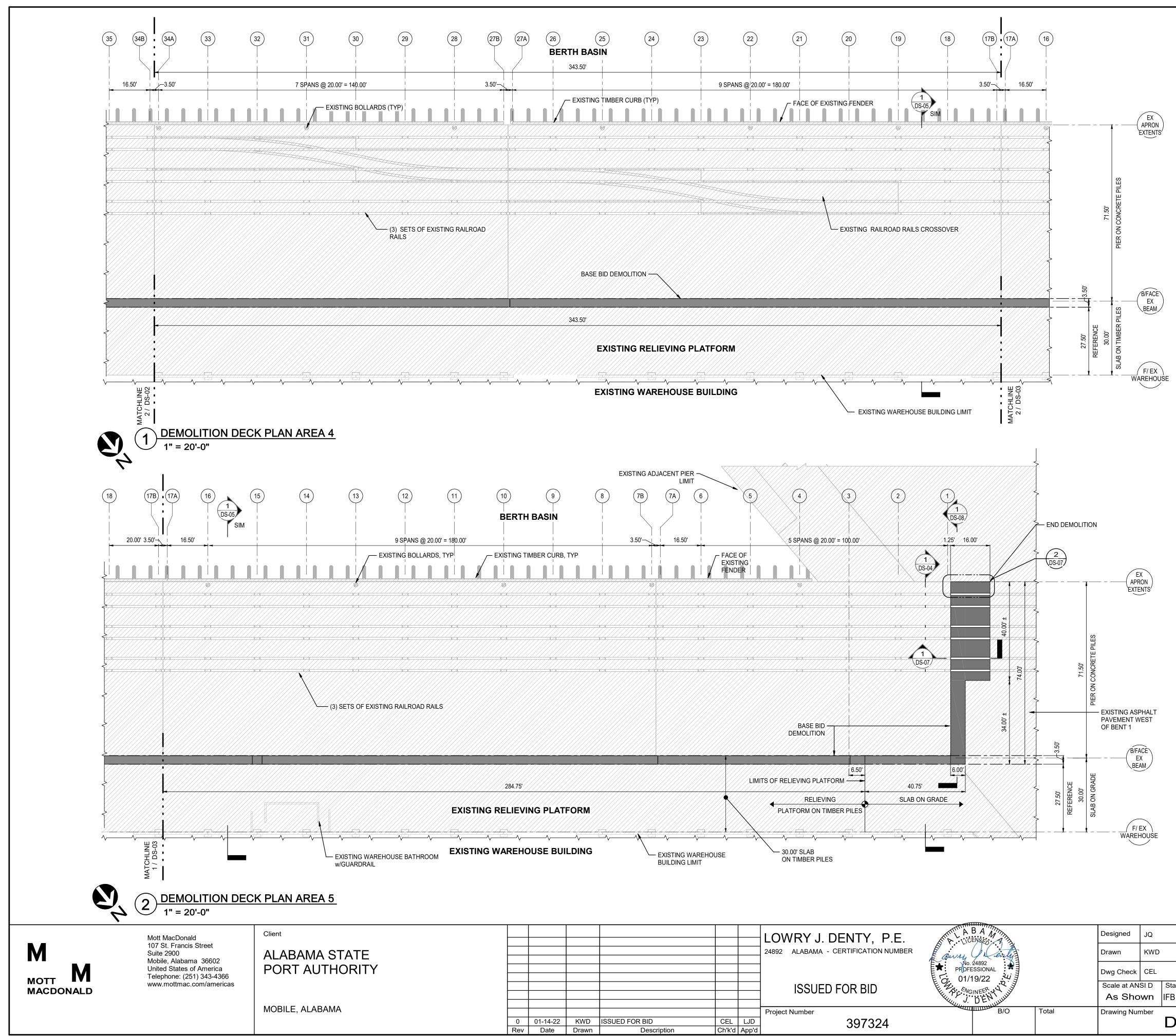
Μ	Mott MacDonald 107 St. Francis Street Suite 2900 Mobile, Alabama, 36602	Client ALABAMA STATE					LOWRY J. DENTY, P.E. 24892 ALABAMA - CERTIFICATION NUMBER		Designed Drawn	JQ KWD MC	Eng Check KP Coordination LJD	- PIER B SOUTH	
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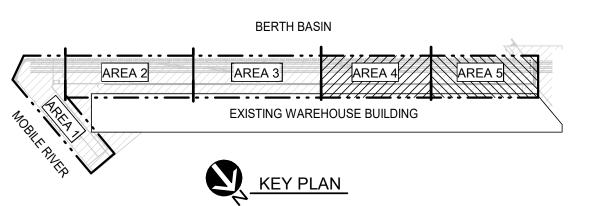
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	2 DEMOLITION DEC 1" = 20'-0"	<u>CK PLAN AREA 5</u>				0 5' 10' 20' 4 SCALE: 1" = 20'
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Λ	107 St. Francis Street Suite 2900	ALABAMA STATE		24892 ALABAMA - CERTIFICATION NUMBER	Drawn KWD Coordination LJD	
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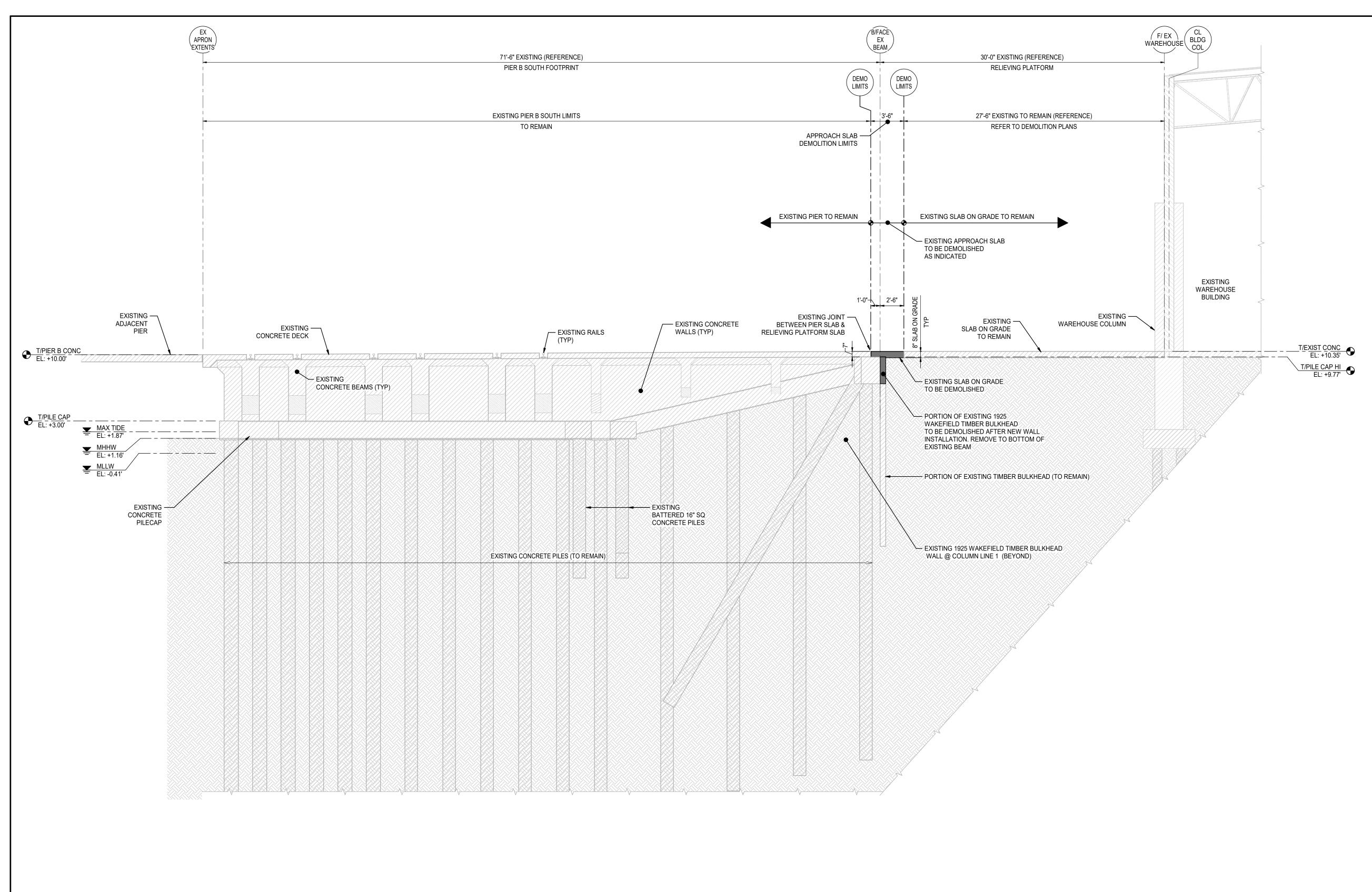


DEMOLITION LEGEND

INDICATES LIMITS OF BASE BID DEMOLITION

INDICATES EXISTING STRUCTURE

TO REMAIN





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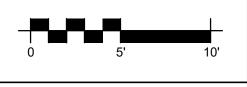
DEMOLITION SECTION AT EXISTING BENT 1 3/16" = 1'-0"

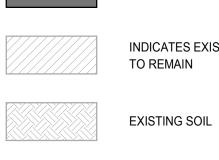
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PIER B SOUTH BERTH BASIN SECTION AT EXISTING BENT 1

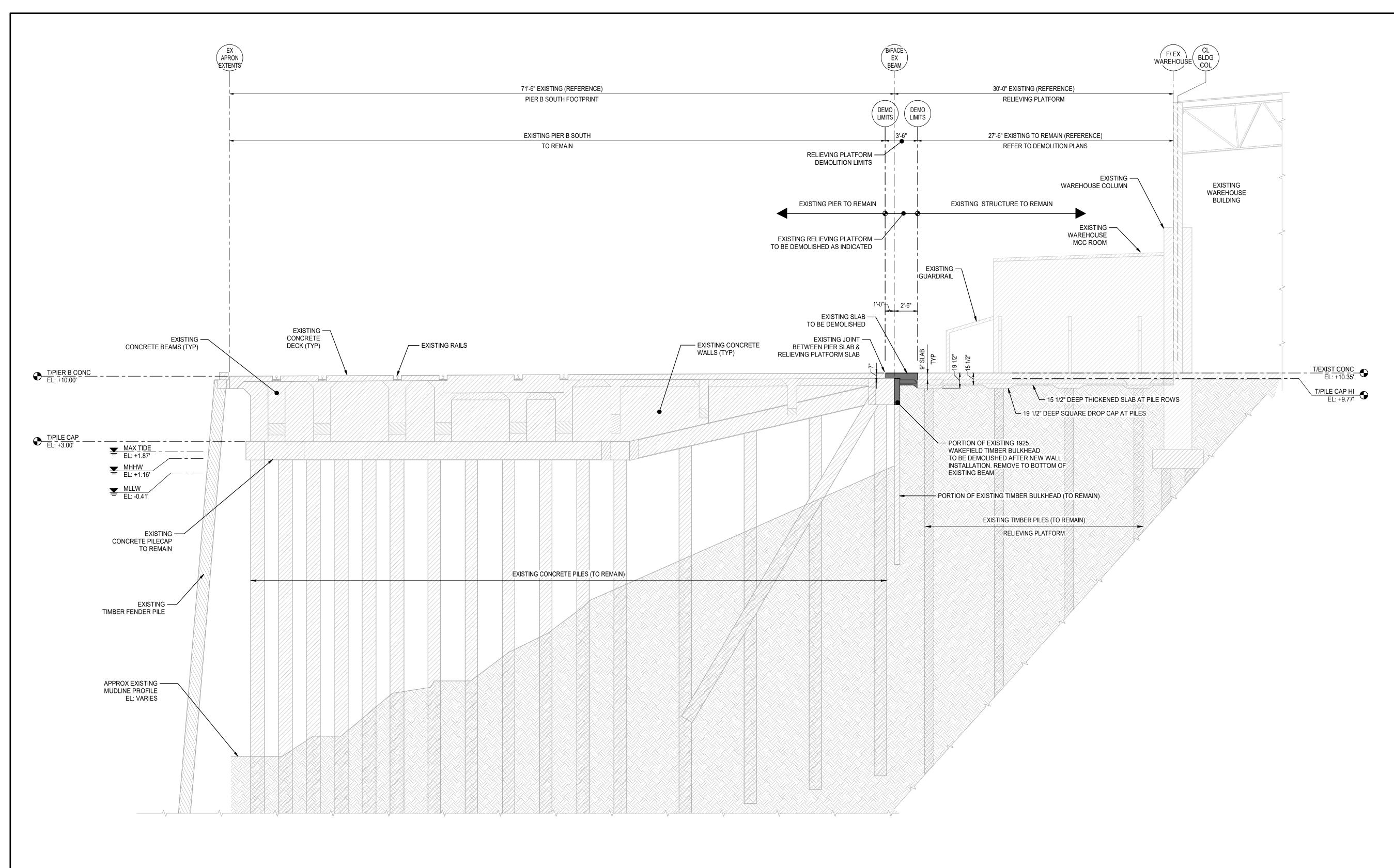




INDICATES EXISTING STRUCTURE TO REMAIN

INDICATES LIMITS OF DEMOLITION

DEMOLITION LEGEND



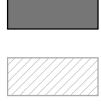


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	MOBILE, ALABAMA			<u> </u>
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1 DEMOLITION BERTH BASIN SECTION AT MCC ROOM 3/16" = 1'-0"

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DEMOLITION LEGEND



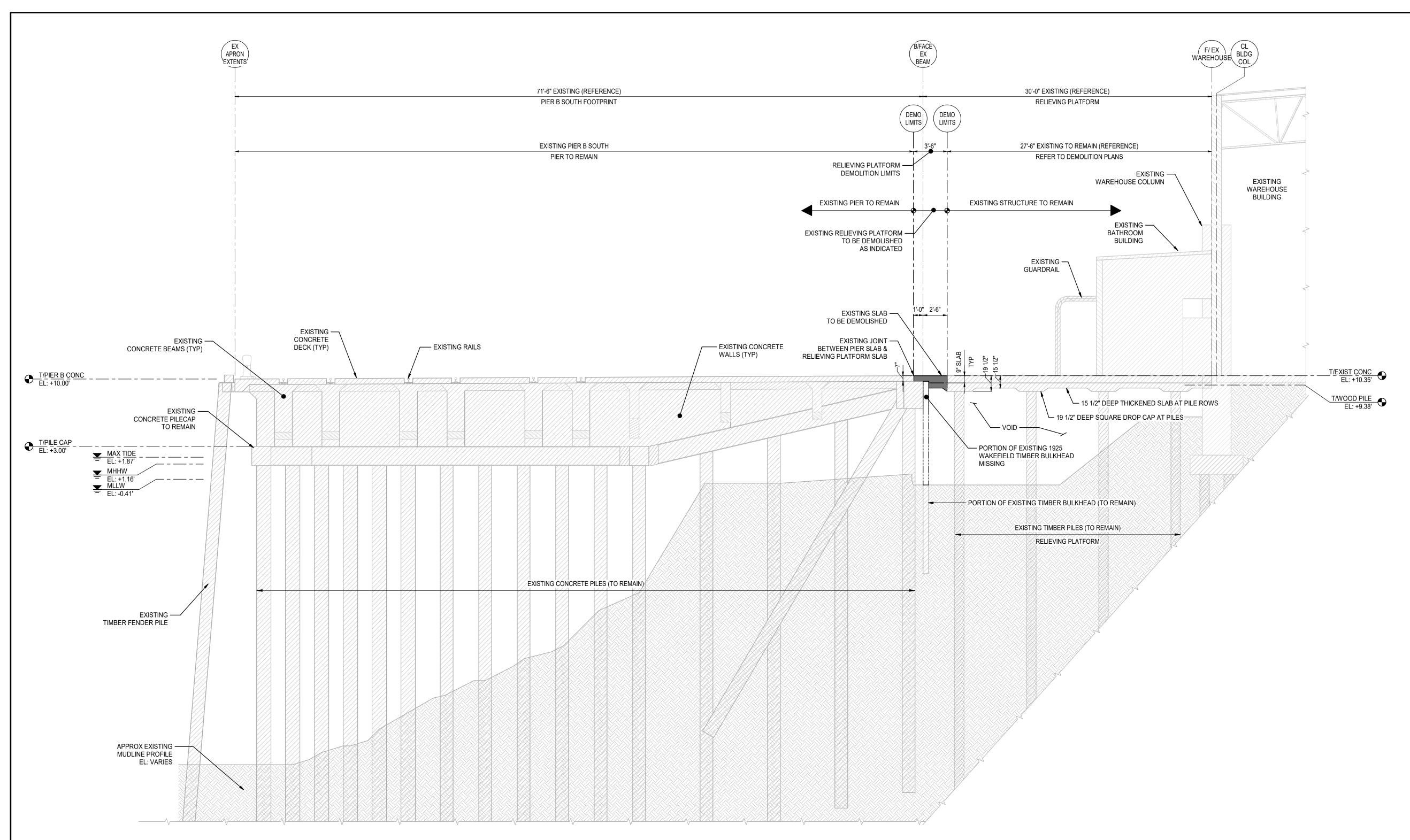
INDICATES LIMITS OF DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN



EXISTING SOIL





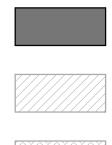


ALABAMA STATE PORT AUTHORITY

1 DEMOLITION SECTION AT EXISTING BENT 67 3/16" = 1'-0"

	Mott MacDonald	Client					LOWRY J. DENTY, P.E.	A B A		Designed	JQ	E
Μ	107 St. Francis Street Suite 2900 Mobile, Alabama 36602	ALABAMA STATE					24892 ALABAMA - CERTIFICATION NUMBER	Course Incention		Drawn	KWD	C
	United States of America Telephone: (251) 343-4366	PORT AUTHORITY					-	₩0.24892 PROFESSIONAL 01/19/22		Dwg Check	CEL	A
	www.mottmac.com/americas						ISSUED FOR BID	E G: 01/19/22 .44 3 HE P: MGINEER		Scale at AN As Sho	SID Status wn IFB	
		MOBILE, ALABAMA					Project Number	B/O	Total	Drawing Nur		
			0 01-14-22 Rev Date	KWD Drawn	ISSUED FOR BID Description	CEL LJD Ch'k'd App'd	397324				DS-0)6

DEMOLITION LEGEND



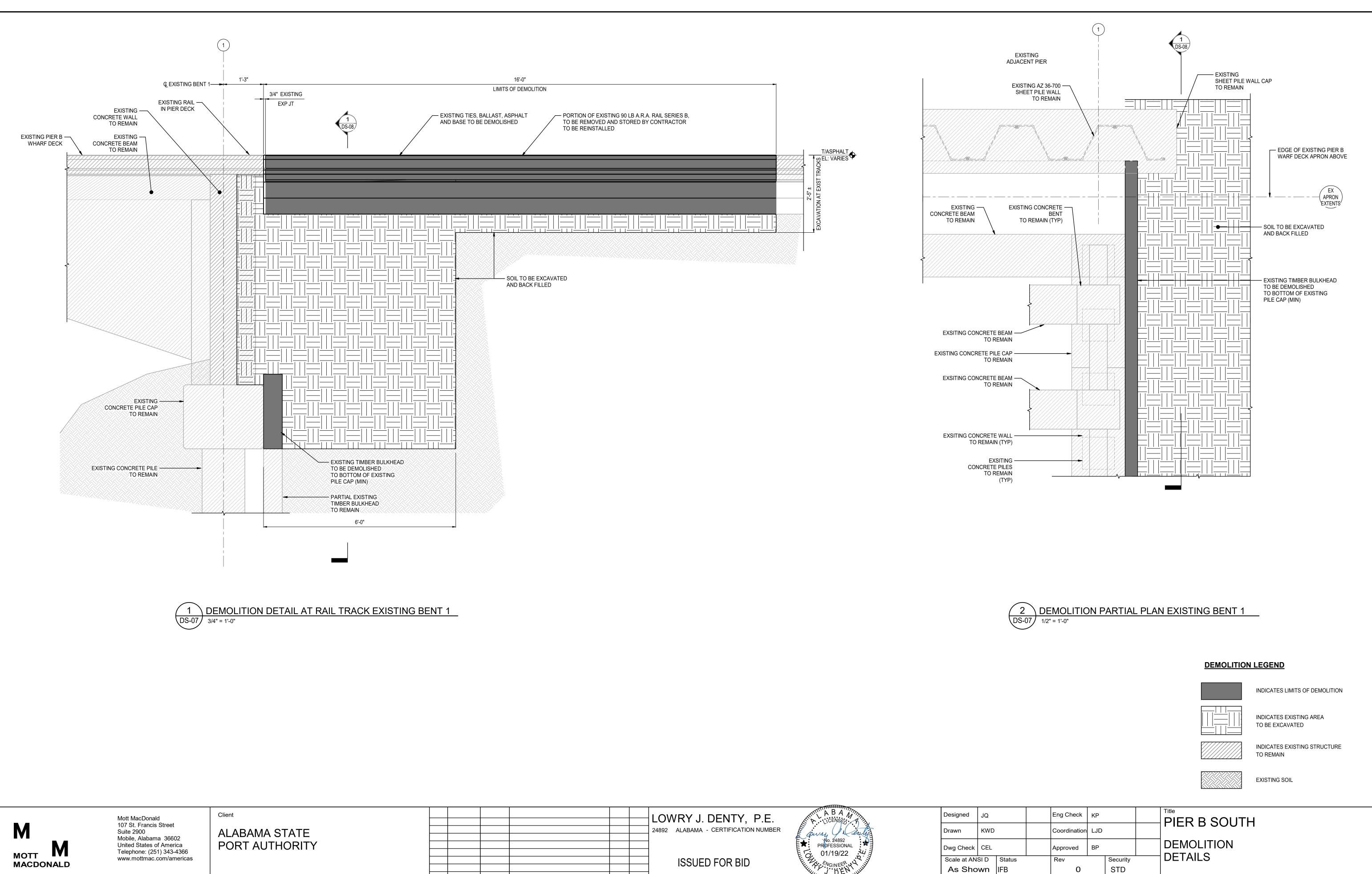
INDICATES LIMITS OF DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN

EXISTING SOIL



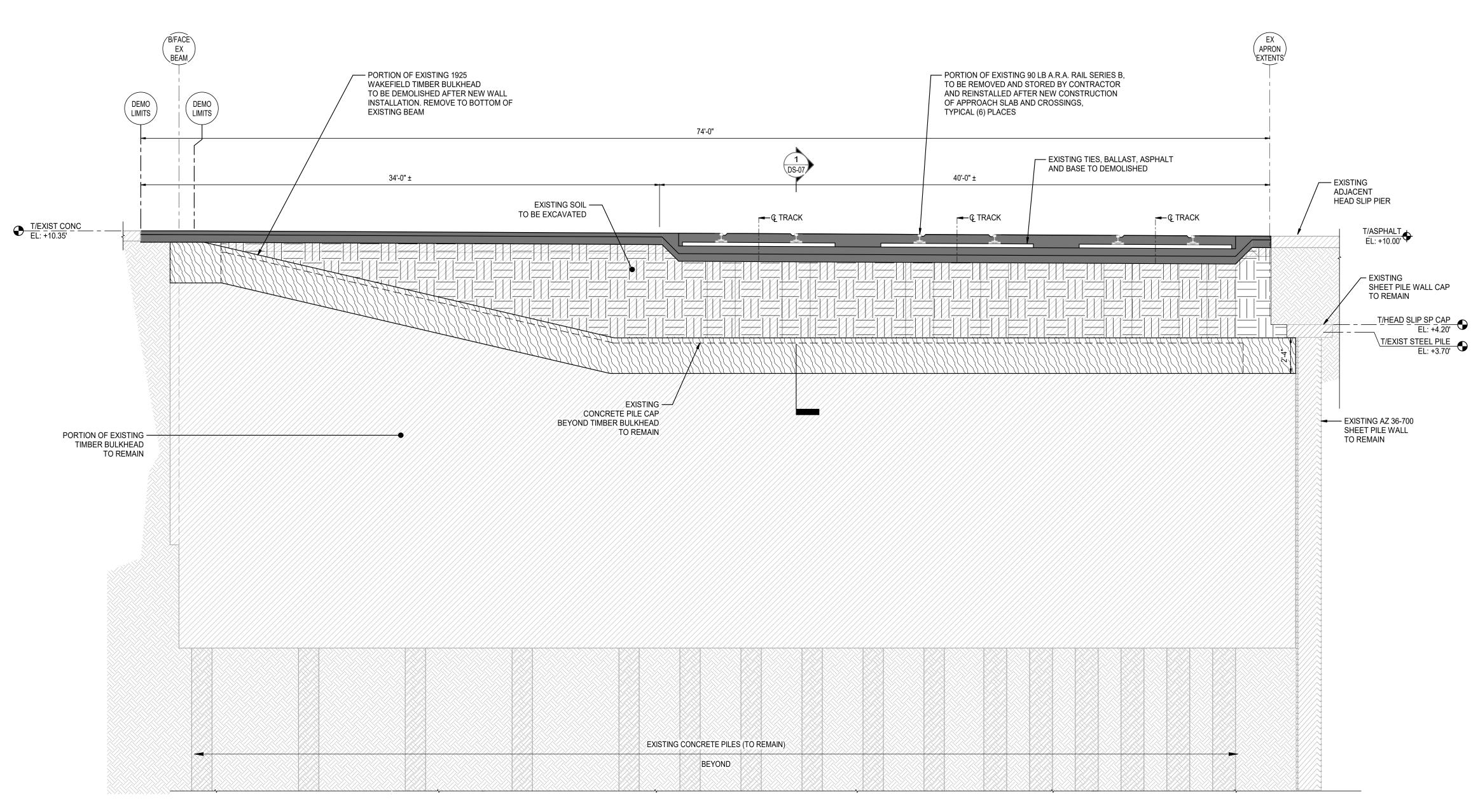
	Eng Check	KP		
	Coordination	LJD		
	Approved	BP		
	Rev		Security	BERTH BASIN SECTION AT EXISTING
	0		STD	BENT 67



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										TTTA B A								
	Mott MacDonald	Client							LOWRY J. DENTY, P.E.	CENSE A		Designed	JQ					
Μ	107 St. Francis Street Suite 2900	ALABAMA STATE							24892 ALABAMA - CERTIFICATION NUMBER	own, Centing		Drawn	KWD					
Μ	Mobile, Alabama 36602 United States of America Telephone: (251) 343-4366	PORT AUTHORITY								No. 24892 PROFESSIONAL 01/19/22		Dwg Check	CEL					
	www.mottmac.com/americas								ISSUED FOR BID	$O_{\mathbf{r}}$		Scale at ANS	I D Status					
MACDONALD										ELE DEN UNUN		As Show	vn IFB					
		MOBILE, ALABAMA							Project Number	B/O	Total	Drawing Num	ber					
			0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD	397324				DS					
			Rev	Date	Drawn	Description	Ch'k'd	d App'd	001021									
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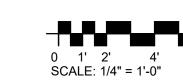




1 DEMOLITION WALL SECTION AT EXISTING BENT 1 1/4" = 1'-0"

										0 1	1' 2' 4' LE: 1/4" = 1'-0"
	Mott MacDonald 107 St. Francis Street	Client		L	OWRY J. DENTY, P.E.	A B A MARTINE	Designed JQ	Eng Check	KP		
Μ	107 St. Francis Street Suite 2900 Mobile, Alabama 36602	ALABAMA STATE		2	4892 ALABAMA - CERTIFICATION NUMBER	E any ficinity	Drawn KWD	Coordination	LJD		
мотт М	United States of America Telephone: (251) 343-4366	PORT AUTHORITY				PROFESSIONAL 01/19/22 →	Dwg Check CEL	Approved	BP		
MACDONALD	www.mottmac.com/americas				ISSUED FOR BID	E 01/19/22	Scale at ANSI DStatusAs ShownIFB	Rev 0	Security STD	DETAILS	
		MOBILE, ALABAMA	0 01-14-22 KWD ISSUED FOR BID Rev Date Drawn Descrit	CEL LJD	Project Number 397324	B/O Total	Drawing Number	3	I		
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INDICATES EXISTING AREA TO BE EXCAVATED

TO REMAIN

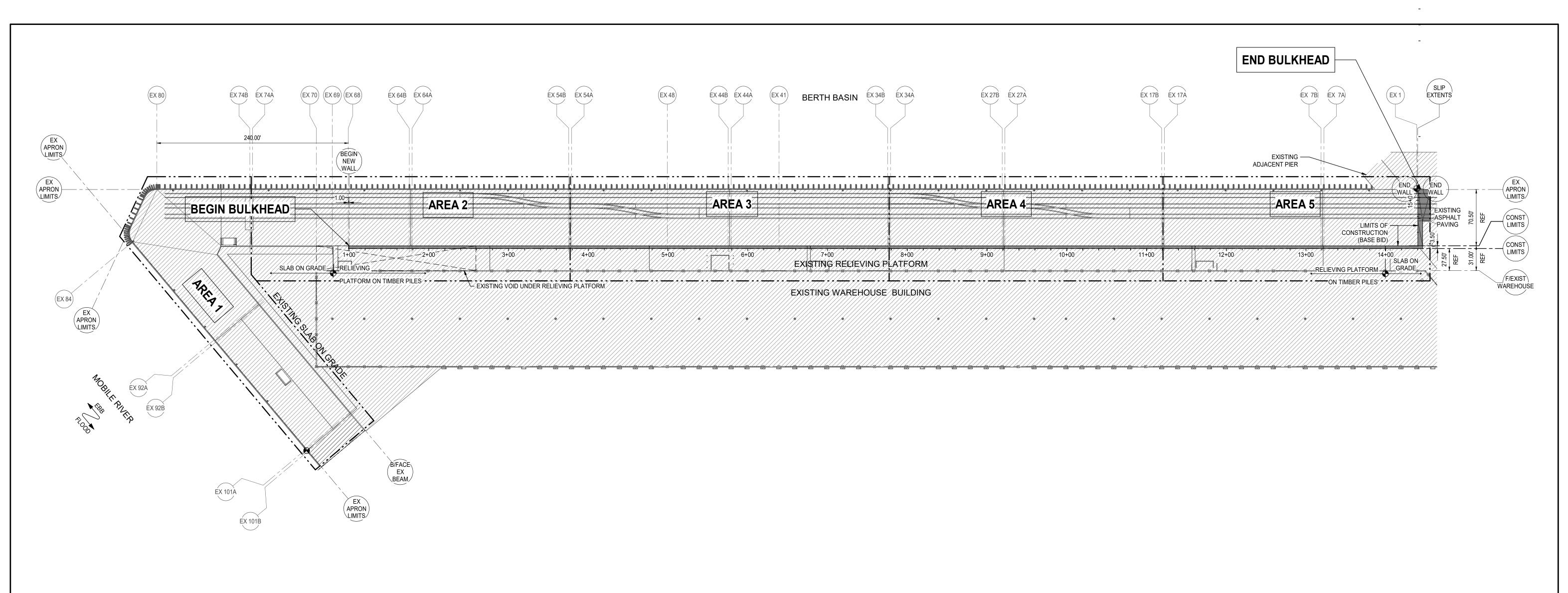
EXISTING SOIL

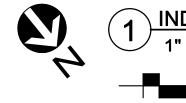
INDICATES LIMITS OF WOOD BULKHEAD DEMOLITION

INDICATES EXISTING STRUCTURE

INDICATES LIMITS OF PAVEMENT DEMOLITION

DEMOLITION LEGEND





INDEX OF MARINE PLAN AREAS 1" = 60'-0" 0 10' 30' 60' 120'

Client ALABAMA STATE PORT AUTHORITY MOBILE, ALABAMA 0 01-14-22 K Rev Date This drawing is the property of Mott MacDonald and may not be reproduced without written permission. This document should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott Mott Not

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				LOWRY J. DENTY, P.E.	A B A	Designed	JQ	
				24892 ALABAMA - CERTIFICATION NUMBER	any frienty	Drawn	KWD	
					PR FESSIONAL 01/19/22	Dwg Check	CEL	
				ISSUED FOR BID		Scale at ANS	SID	Status
					LE DEN ULLIN	As Sho	wn	IFB
				Project Number	B/O Total	Drawing Num	nber	
WD	ISSUED FOR BID	CEL	LJD	397324				MA
rawn	Description	Ch'k'd	App'd	001024				
/lacDonal	d was commissioned. Mott MacDonald accepts no	o responsi	bility for th	nis document to any party other than the person or entity by whom it w	/as commissioned.			

LEGEND

INDICATES LIMITS OF CONSTRUCTION



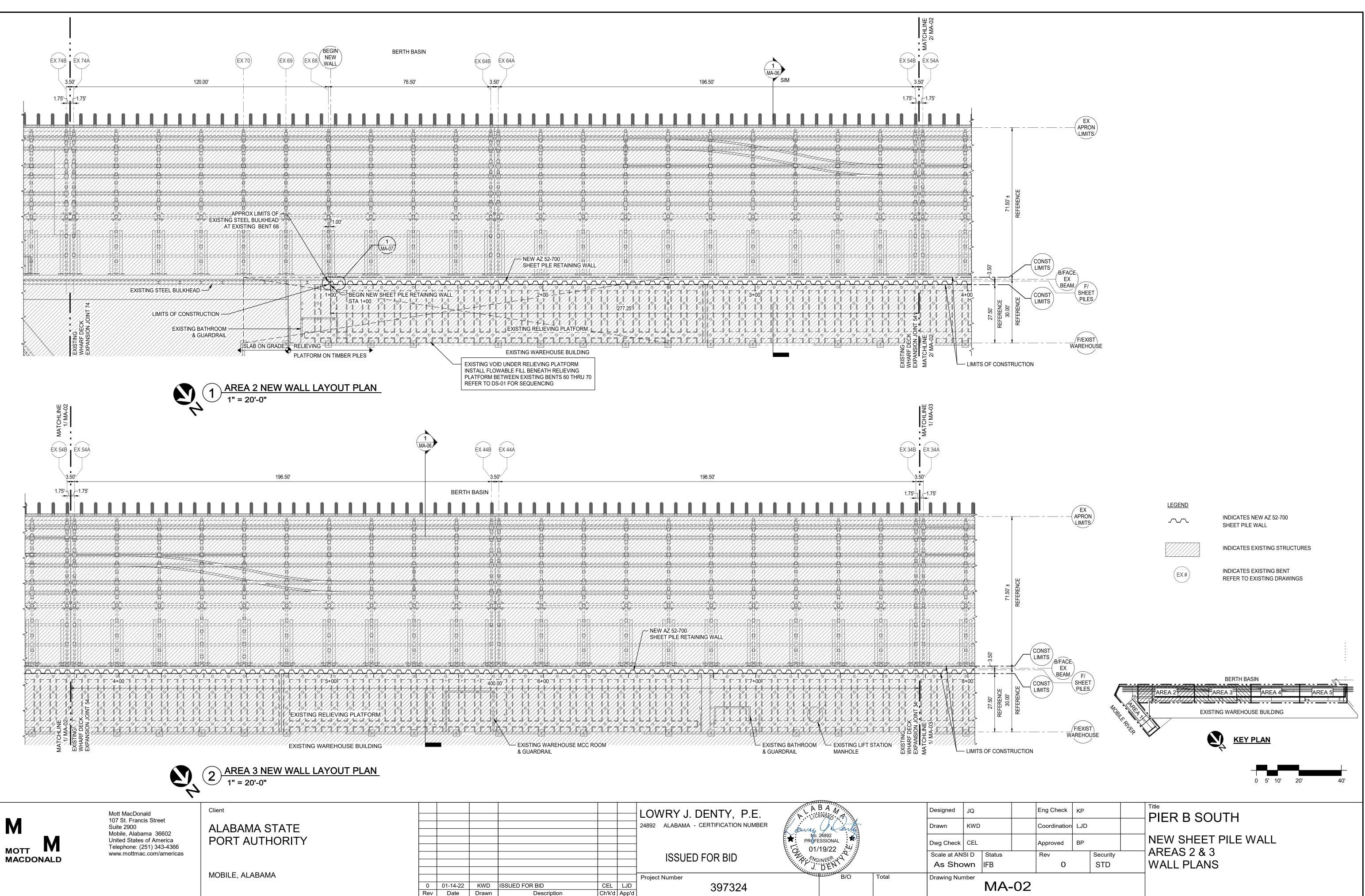
INDICATES EXISTING BENT



INDICATES EXISTING STRUCTURES

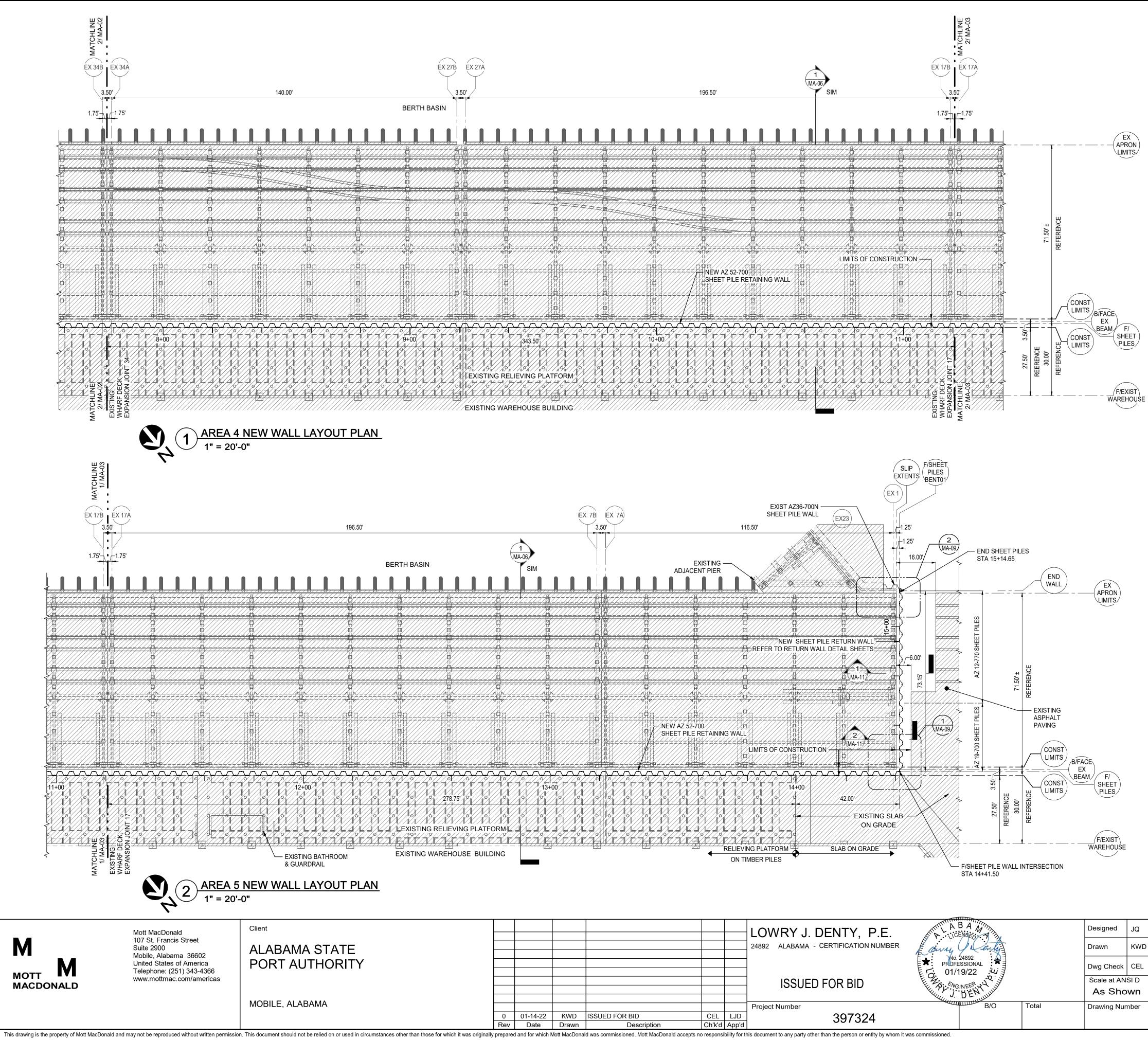
REFER TO EXISTING DRAWINGS

Title Eng Check KP PIER B SOUTH Coordination LJD NEW SHEET PILE WALL Approved BP INDEX OF PLAN AREAS Security Rev STD 0 **\-01**



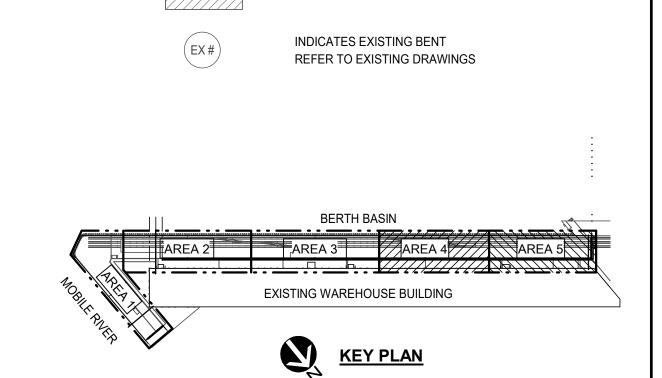
Μ	Mott MacDonald 107 St. Francis Street Suite 2900 Mabile Alabama 26602	Client ALABAMA STATE						LOWRY J. DENTY, P.E. 24892 ALABAMA - CERTIFICATION NUMBER	A B A MANA		Designed Drawn	JQ KWD
	Mobile, Alabama 36602 United States of America Telephone: (251) 343-4366 www.mottmac.com/americas	PORT AUTHORITY						ISSUED FOR BID	No. 24892 PROFESSIONAL FO: 01/19/22 FO: 01/19/22 FO: 01/19/22 FO: 01/19/22		Dwg Check Scale at ANS As Show	I D Status
		MOBILE, ALABAMA	0 01-14 Rev Dat		ISSUED FOR BID		LJD d App'd	Project Number 397324	B/O	Total	Drawing Num	ber
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	Eng Check	KP									
	Coordination	LJD									
	Approved	BP		NEW SHEET PILE WALL							
	Rev		Security	AREAS 2 & 3							
	0	0 STD		WALL PLANS							



											0 5' 10' 20' 40'
				LOWRY J. DENTY, P.E.	A B A M		Designed	JQ	Eng Check K	(P	Title PIER B SOUTH
				24892 ALABAMA - CERTIFICATION NUMBER	E any frienty		Drawn	KWD	Coordination L	JD	FIER D SOUTH
					No. 24892 PRDFESSIONAL ₩ 1 01/19/22		Dwg Check	CEL	Approved B	3P	NEW SHEET PILE WALL
				ISSUED FOR BID	E O WGINEER H		Scale at ANS	SI D Status wn IFB	Rev 0	Security STD	AREAS 4 & 5 WALL PLANS
KWD	ISSUED FOR BID	CEL	LJD	Project Number 397324	B/O	Total	Drawing Nun	nber MA-0	3		
Drawn	Description	Ch'k'd		his document to any party other than the person or entity by whom it v	was commissioned				<u> </u>		

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INDICATES NEW AZ 52-700

INDICATES NEW AZ 19-700

INDICATES NEW AZ 12-770

INDICATES EXISTING STRUCTURES

SHEET PILE WALL

SHEET PILE WALL

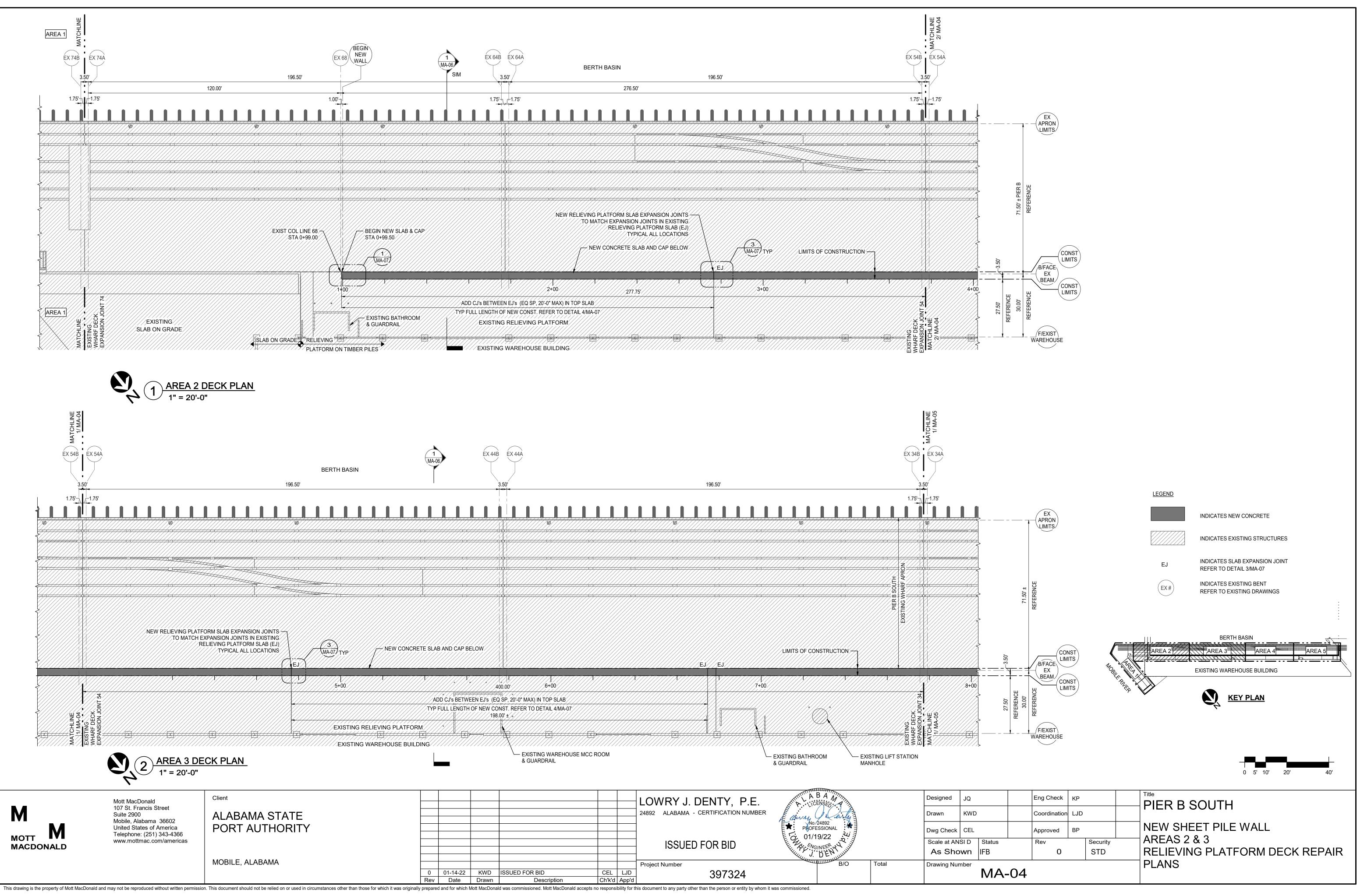
SHEET PILE WALL

<u>LEGEND</u>

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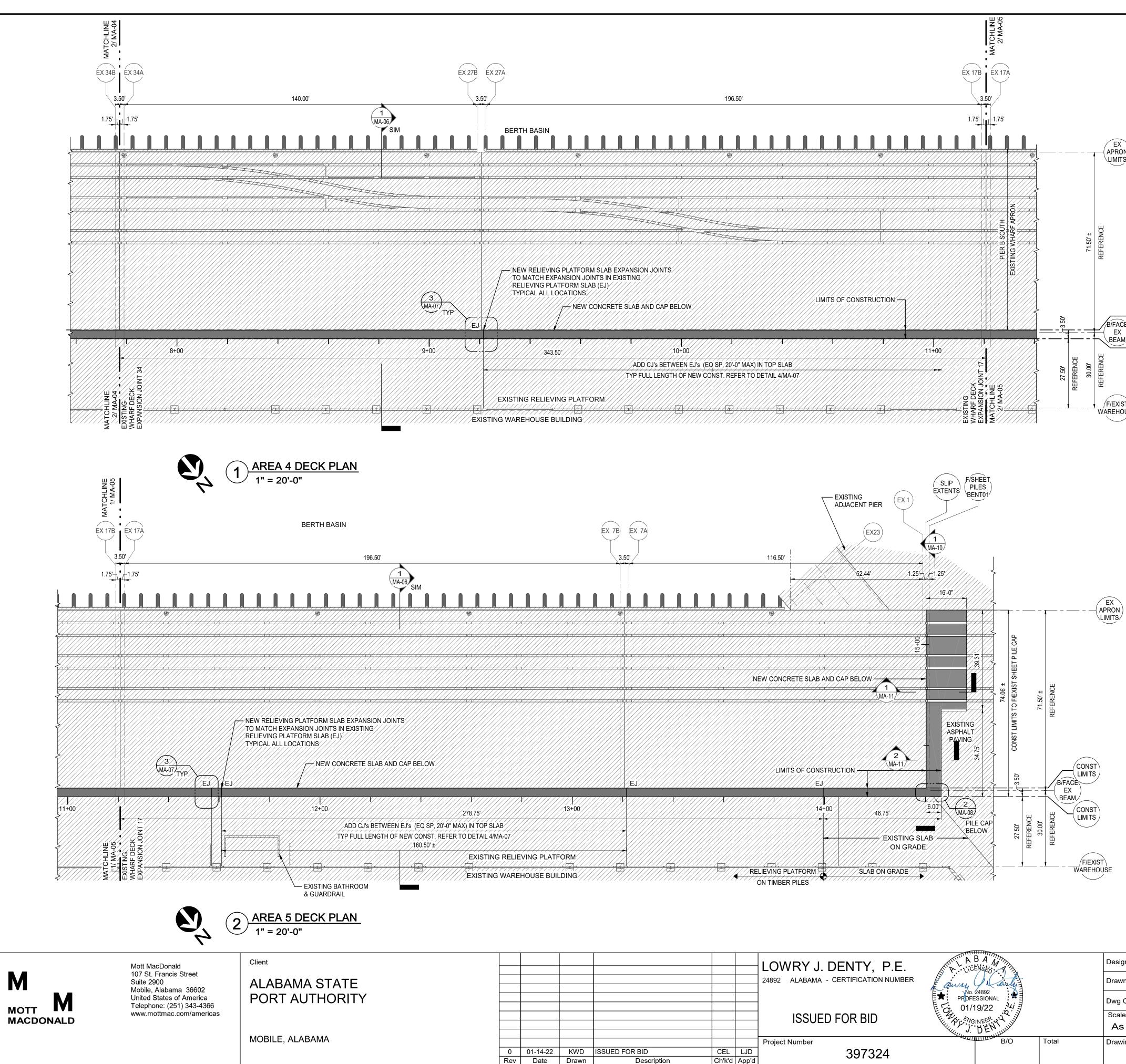
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				LOWRY J. DENTY, P.E. 24892 ALABAMA - CERTIFICATION NUMBER	A B A M icenses	Drawn	JQ KWD	
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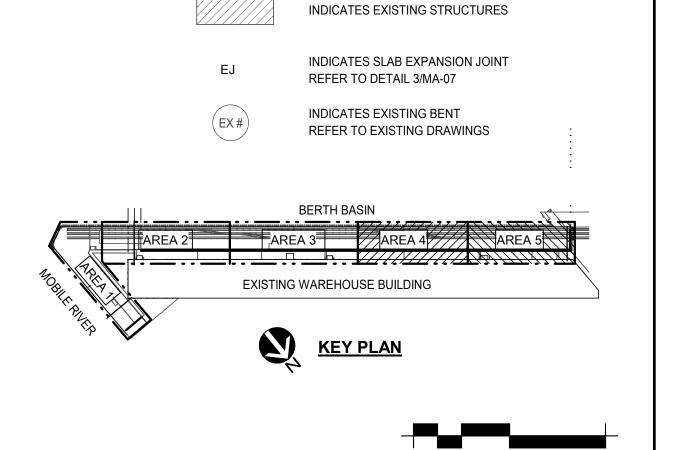
				0 5' 10' 20'	40'							
	Eng Check	KP										
	Coordination	LJD										
	Approved	BP		NEW SHEET PILE WALL								
	Rev		Security	AREAS 2 & 3								
	0 STD		RELIEVING PLATFORM DECK REPAIR									
-04				PLANS								



196.50'	EX 17B	2/ MA-05	
ATFORM SLAB EXPANSION JOINTS ION JOINTS IN EXISTING RM SLAB (EJ) IONS NEW CONCRETE SLAB AND CAP BELOW	JCTION	EXISTING WHARF APRON	EX APRON LIMITS TOGET EX APRON LIMITS EX APRON LIMITS
ADD CJ'S BETWEEN EJ'S (EQ SP, 20'-0" MAX) IN TOP SLAB TYP FULL LENGTH OF NEW CONST. REFER TO DETAIL 4/MA-07 PLATFORM	EXISTING WHARF DECK WHARF DECK		STATES OF CONST LIMITS

Μ	Mott MacDonald 107 St. Francis Street Suite 2900 Mobile, Alabama 36602	Client ALABAMA STATE				LOWRY J. DENTY, P.E. 24892 ALABAMA - CERTIFICATION NUMBER	any finty		Designed JQ Drawn KWD	Eng Check KP Coordination LJD
United States of America Telephone: (251) 343-436	United States of America Telephone: (251) 343-4366 www.mottmac.com/americas	PORT AUTHORITY				ISSUED FOR BID	► 01/19/22 ► 01/19/22		Dwg CheckCELScale at ANSI DStatusAs ShownIFB	Approved BP Rev Se O S
		MOBILE, ALABAMA	0 01-14-22 Rev Date	Drawn Description	CEL LJD Ch'k'd App'd	Project Number 397324		Total	Drawing Number	05
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PIER B SOUTH
NEW SHEET PILE WALL AREAS 4 & 5 RELIEVING PLATFORM DECK REPAIR PLANS



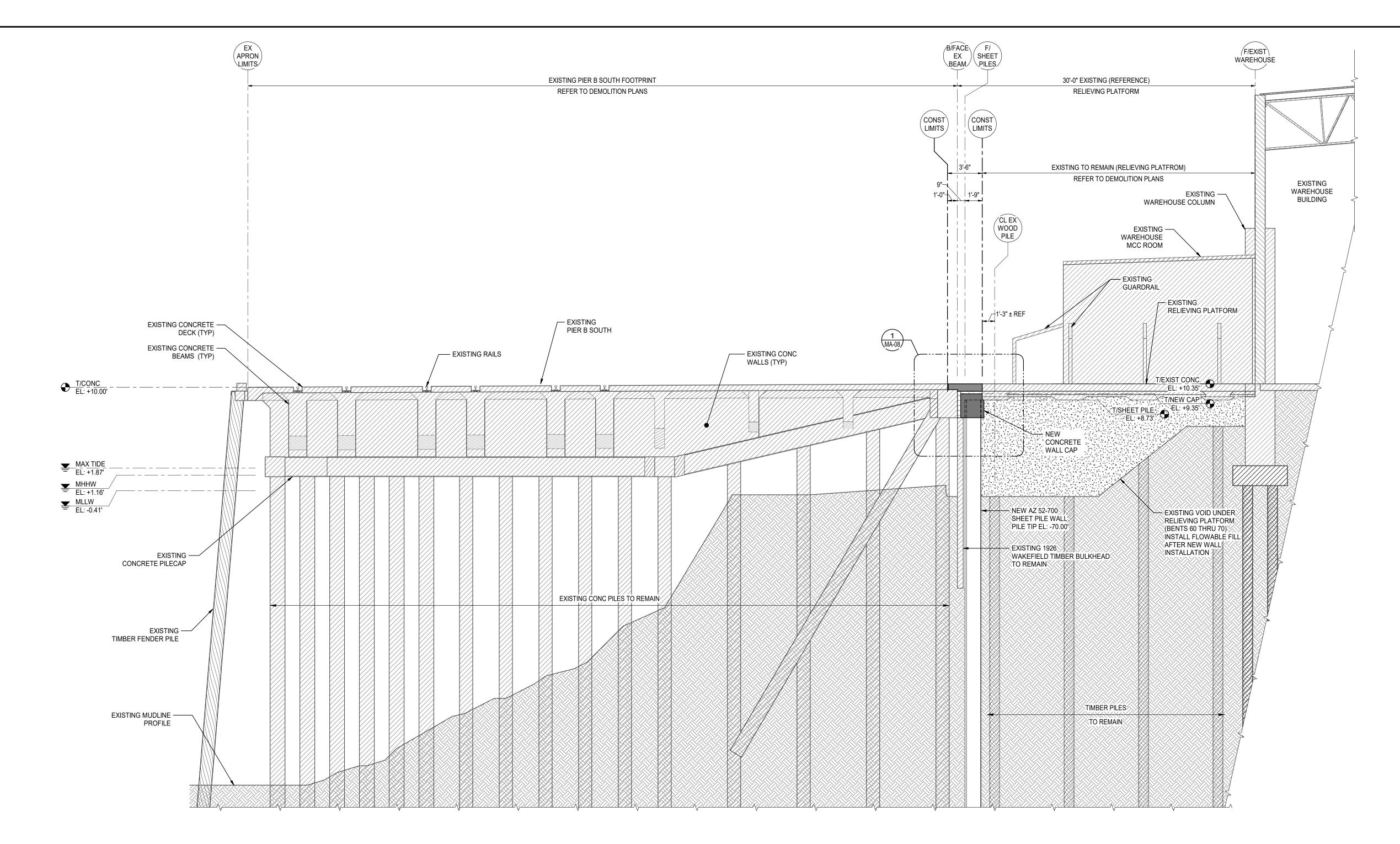
INDICATES NEW CONCRETE

<u>LEGEND</u>

Security

STD

324



Mott MacDonald	Client		LOWRY J. DENTY, P.E.	Designed JQ Eng Check KP	
107 St. Francis Street Suite 2900	ALABAMA STATE		24892 ALABAMA - CERTIFICATION NUMBER	Drawn KWD Coordination LJD	- PIER B SOUTH
United States of America	PORT AUTHORITY		PROFESSIONAL 01/19/22	Dwg Check CEL Approved BP	
MOTT IVI Average Ave			ISSUED FOR BID	Scale at ANSI DStatusRevSecurityAs ShownIFB0STD	AREAS 2, 3, 4, & 5 TYPICAL SECTION THRU NEW WALL
	MOBILE, ALABAMA	0 01-14-22 KWD ISSUED FOR BID CEL LJD	Project Number B/O Total	Drawing Number	
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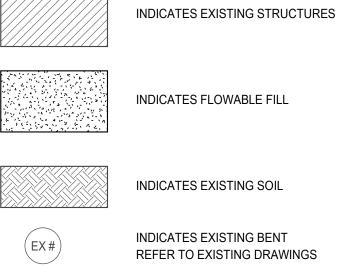


TYPICAL RETAINING WALL SECTION

3/16" = 1'-0"

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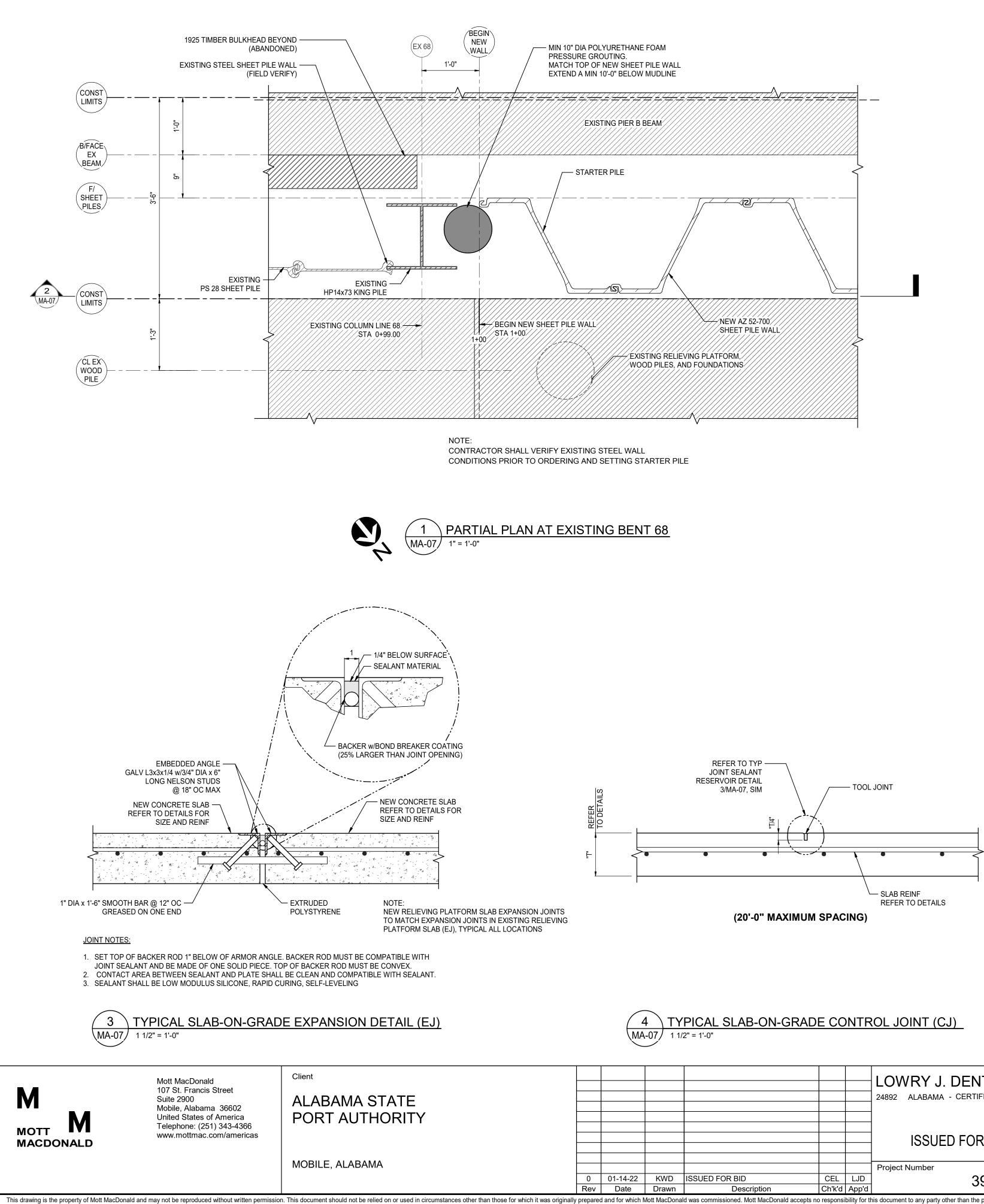
REFER TO EXISTING DRAWINGS INDICATES MEAN HIGHER-HIGH WATER MHHW INDICATES MEAN LOWER-LOW WATER MLLW INDICATES HIGHEST OBSERVED TIDE MAX TIDE 10-08-2017

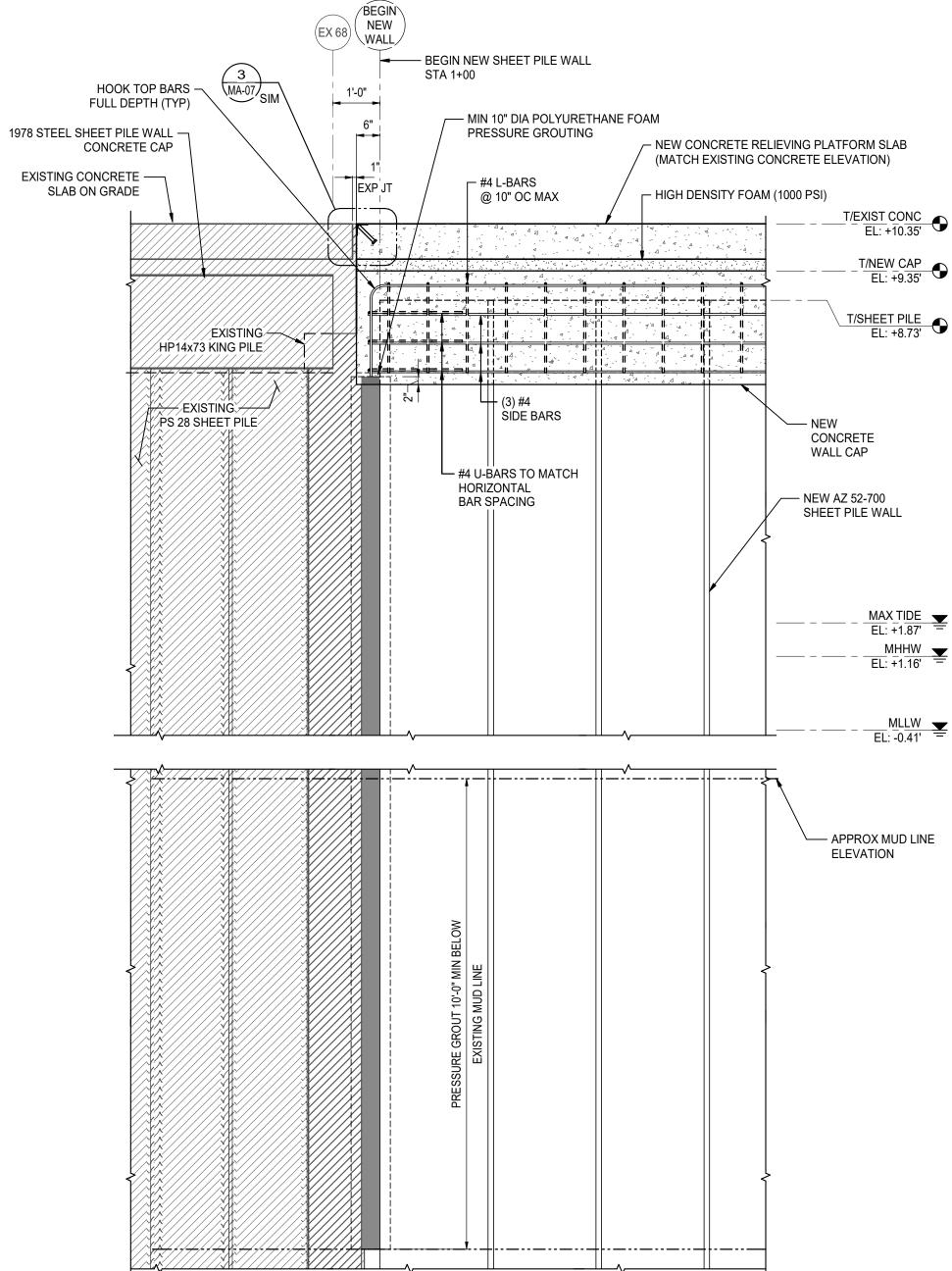


INDICATES NEW CONCRETE

LEGEND

NOTE: WATER LEVEL DATA IS FROM NOAA TIDE DATA WEB SITE FOR MOBILE STATE DOCKS. DATUM NAVD 88







				LOWRY J. DENTY, P.E.	A B A		Designed	JQ		
				24892 ALABAMA - CERTIFICATION NUMBER	any renty		Drawn	KWD		
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				Project Number	B/O	Total	Drawing Nur	nber		
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Drawn	Description	Ch'k'd	App'd	007021						_
ott MacDonal	d was commissioned. Mott MacDonald accept	s no respons	ibility for t	his document to any party other than the person or entity by whom it w	as commissioned.					

LEGEND
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INDICATES EXISTING STRUCTURES



MAX TIDE

Title

INDICATES MEAN HIGHER-HIGH WATER INDICATES MEAN LOWER-LOW WATER INDICATES HIGHEST OBSERVED TIDE 10-08-2017

INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS

Approved Rev 0

Eng Check KP

Coordination LJD

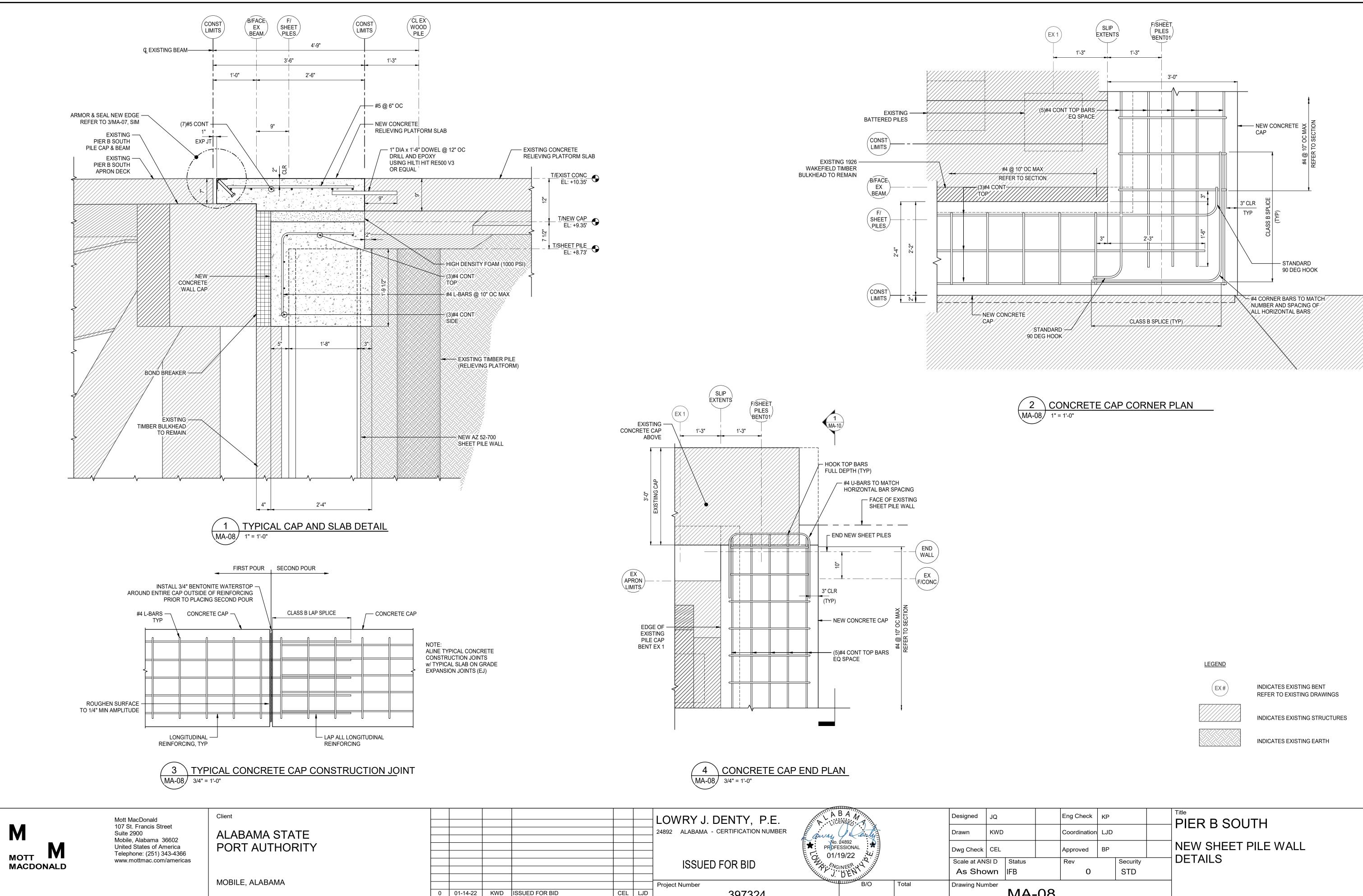
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Security

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PIER B SOUTH NEW SHEET PILE WALL DETAILS

-07



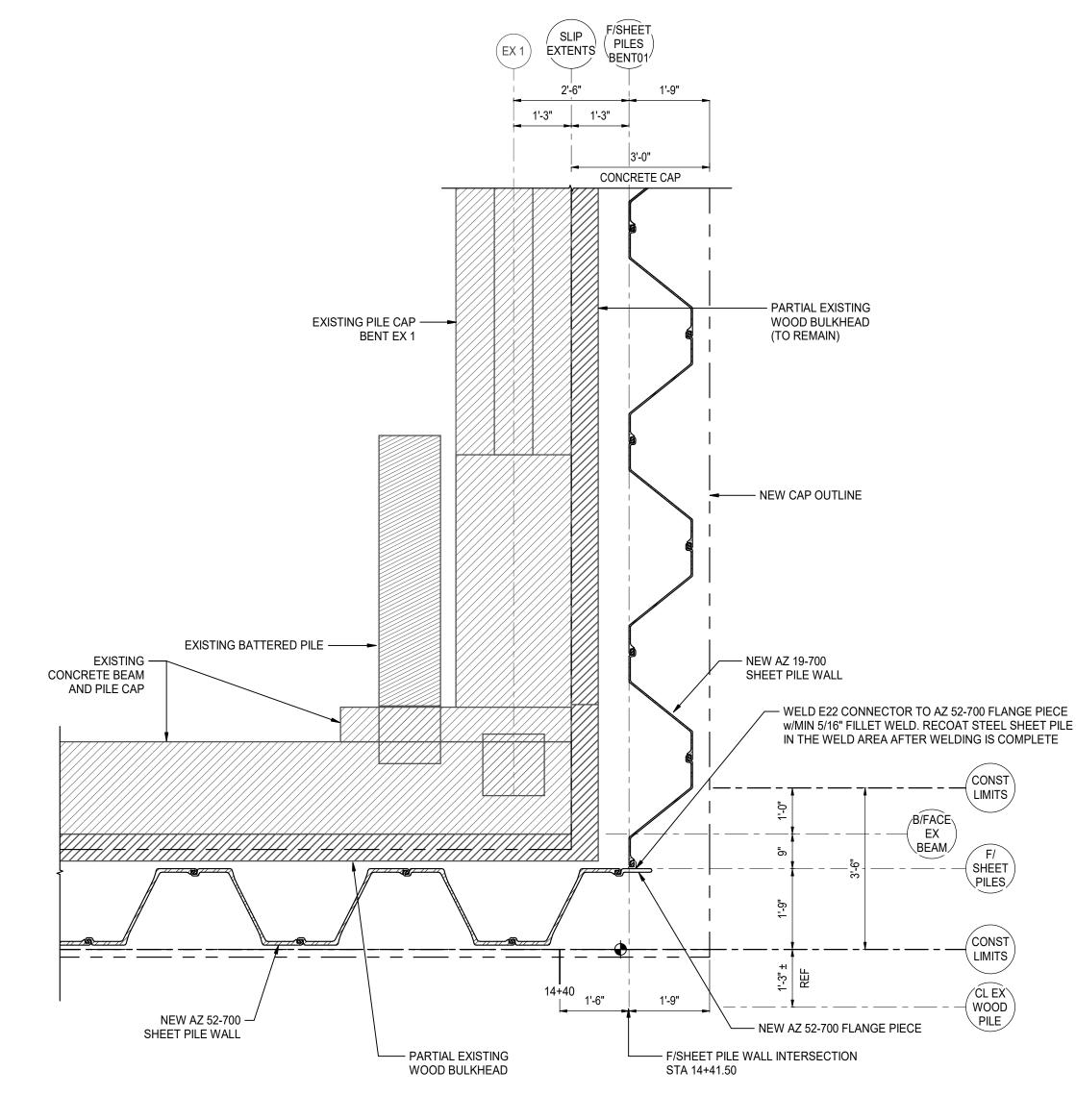
ott MacDonald	Client							LOWRY J. DENTY, P.E.	A D A M		Designed	JQ
Suite 2900 Mobile, Alabama 36602 United States of America	ALABAMA STATE							24892 ALABAMA - CERTIFICATION NUMBER	Course In Centry		Drawn	KWD
	PORT AUTHORITY										Dwg Check	CEL
w.mottmac.com/americas								ISSUED FOR BID	FE O. 01/19/22			
	MOBILE, ALABAMA							Project Number		Total		
		0	01-14-22					397324				MA-
7 it it le	7 St. Francis Street ite 2900 bile, Alabama 36602 ited States of America ephone: (251) 343-4366	ALABAMA STATE ALABAMA STATE ALABAMA STATE PORT AUTHORITY PORT AUTHORITY	7 St. Francis Street ite 2900 bile, Alabama 36602 ited States of America lephone: (251) 343-4366 w.mottmac.com/americas	ALABAMA STATE bile, Alabama 36602 bile, Alabama 36602 bile dStates of America lephone: (251) 343-4366 w.mottmac.com/americas MOBILE, ALABAMA MOBILE, ALABAMA	ALABAMA STATE bile, Alabama 36602 ited States of America lephone: (251) 343-4366 w.mottmac.com/americas MOBILE, ALABAMA MOBILE, ALABAMA	7 St. Francis Street tie 2900 bile, Alabama 36602 tied States of America lephone: (251) 343-4366 w.mottmac.com/americas MOBILE, ALABAMA MOBILE, ALABAMA 0 01-14-22 KWD ISSUED FOR BID	7 St. Francis Street ite 2900 bile, Alabama 36602 ited States of America lephone: (251) 343-4366 w.mottmac.com/americas MOBILE, ALABAMA MOBILE, ALABAMA MOBILE, ALABAMA MOBILE, ALABAMA MOBILE, ALABAMA MOBILE, ALABAMA	7 St. Francis Street ite 2900 bile, Alabama 36602 ited States of America lephone: (251) 343-4366 w.mottmac.com/americas MOBILE, ALABAMA MOBILE, ALABAMA MOBILE, ALABAMA $MOBILE, ALABAMA$	ALABAMA STATE port AUTHORITY ALABAMA STATE port AUTHORITY ALABAMA STATE port AUTHORITY ALABAMA STATE port AUTHORITY ALABAMA - CERTIFICATION NUMBER SUED FOR BID ISSUED FOR	ALABAMA STATE port AUTHORITY ALABAMA STATE PORT AUTHORITY ALABAMA STATE PORT AUTHORITY ALABAMA STATE PORT AUTHORITY ALABAMA - CERTIFICATION NUMBER No. 24892 ALABAMA - CERTIFICATION	ALABAMA STATE te 2900 bile, Alabama 3602 ted States of America ephone: (251) 343-4366 w.mottmac.com/americas MOBILE, ALABAMA A CERTIFICATION NUMBER ALABAMA - CERTIFICATION NUMBER A	ALABAMA STATE Drawn bie Alabama 3602 ted States of America lephone: (251) 343-4366 mobile, AlabaMA w.mottmac.com/americas mobile, AlabaMA MOBILE, ALABAMA mobile, AlabaMA 0 01-14-22 KWD ISSUED FOR BID 0 01-14-22 KWD ISSUED FOR BID CEL 10 0 01-14-22 KWD ISSUED FOR BID CEL 10 10 10-14-22 KWD ISSUED FOR BID 10 10-14-22

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	Coordination	LJD		
	Approved	BP		
	Rev		Security	
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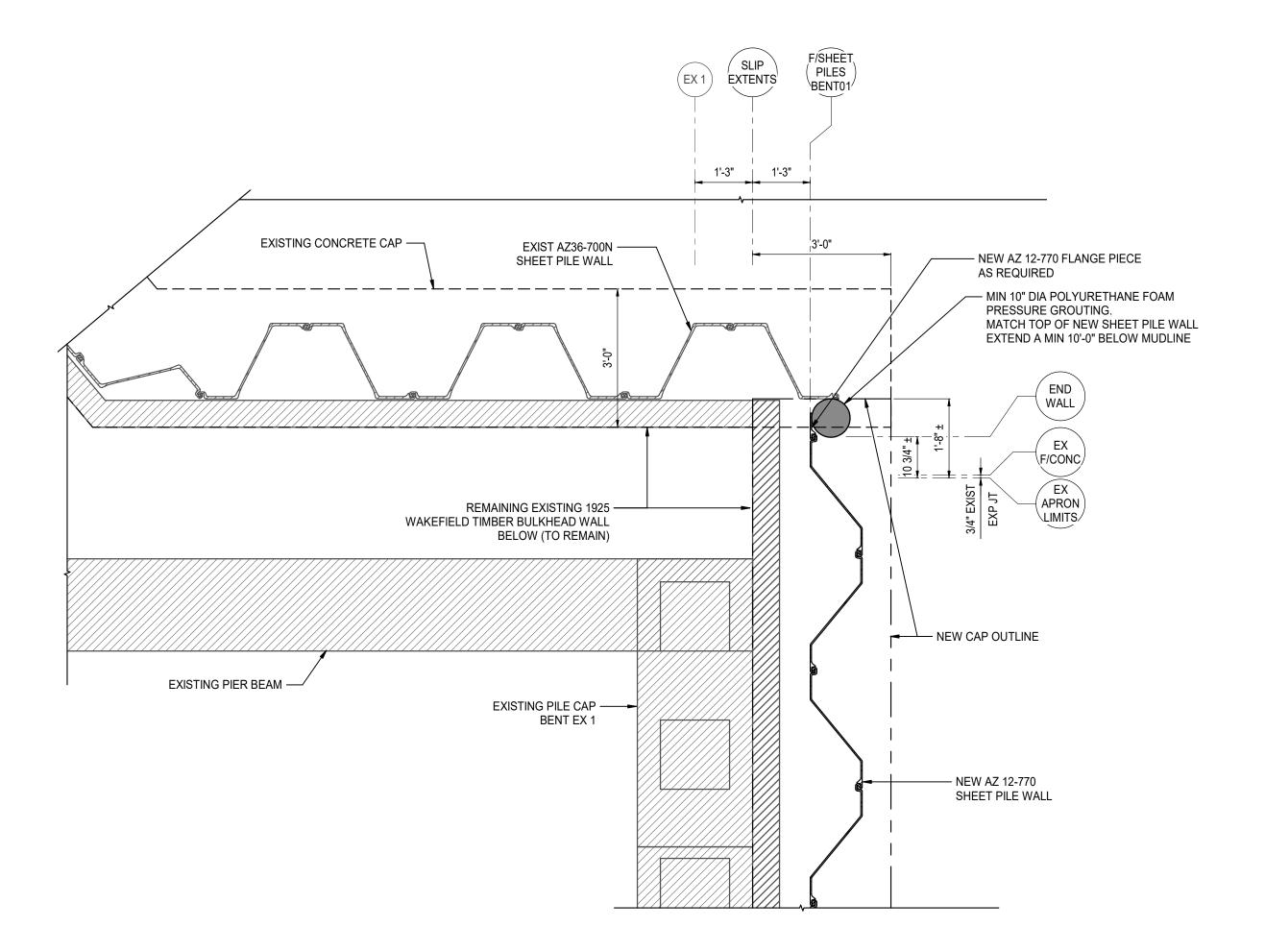




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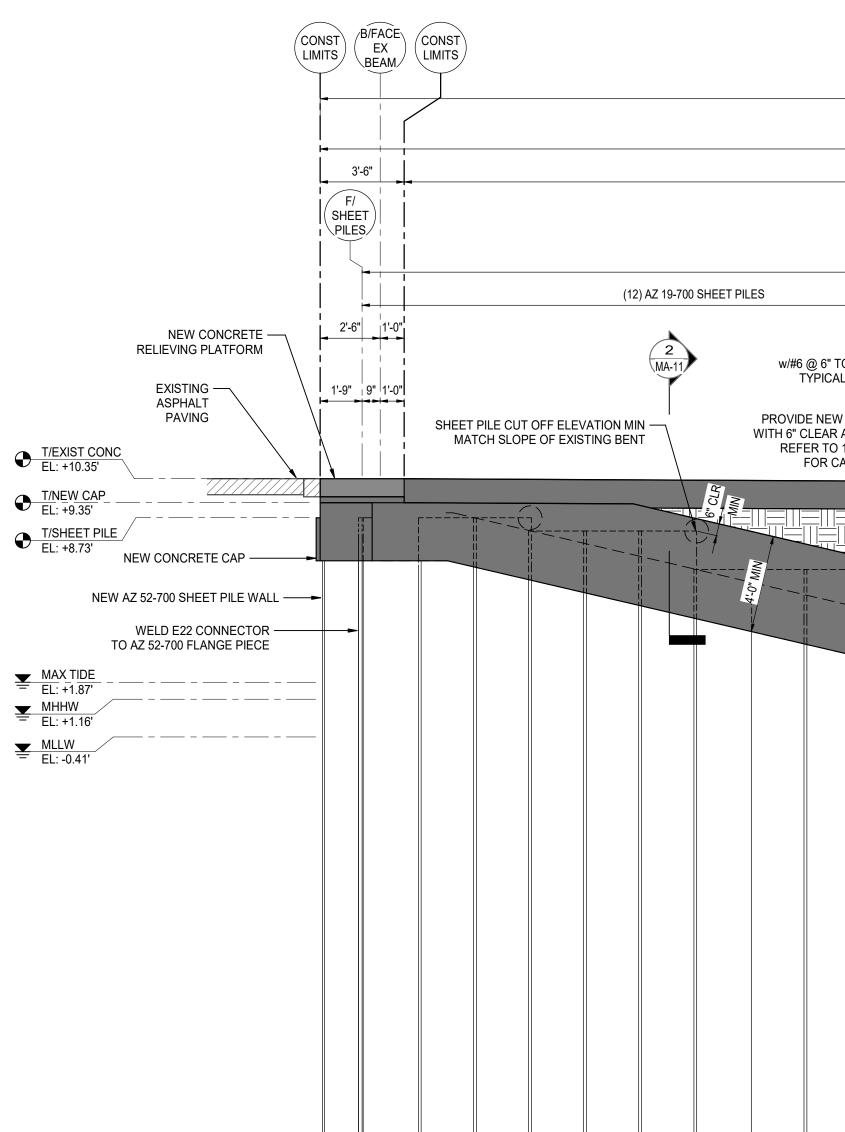


ALABAMA STATE PORT AUTHORITY



2 PARTIAL PLAN - SHEET PILE RETURN WALL END DETAIL MA-09 1/2" = 1'-0"

Μ	Mott MacDonald 107 St. Francis Street Suite 2900 Mobile, Alabama 36602	Client ALABAMA STATE				LOWRY J. DENTY, P.E. 24892 ALABAMA - CERTIFICATION NUMBER	icenses		Designed JQ Drawn KWD	Eng Check		PIER B SOUTH
MOTT MACDONALD	United States of America Telephone: (251) 343-4366 www.mottmac.com/americas	PORT AUTHORITY				ISSUED FOR BID			Dwg CheckCELScale at ANSI DStatusAs ShownIFB	Approved I Rev 0	3P Security STD	NEW SHEET PILE WALL DETAILS
		MOBILE, ALABAMA	0 01-14-22 KWD Rev Date Drawn	D	CEL LJD Ch'k'd App'd	Project Number 397324	B/O	Total	Drawing Number	9	·	
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MOTT Telephone: (251 WWW.mottmac.co	om/americas		ISSUED FOR BID	No. 24892 PROFESSIONAL 01/19/22 	Dwg CheckCELScale at ANSI DStatusAs ShownIFB	Approved BP Rev Security 0 STD
This drawing is the property of Matt MacDanald and may not be reproduced	WOBILE, ALABAMA	0 01-14-22 KWD ISSUED FOR BID Rev Date Drawn Description	CEL LJD Ch'k'd App'd	B/O Total	Drawing Number	-10

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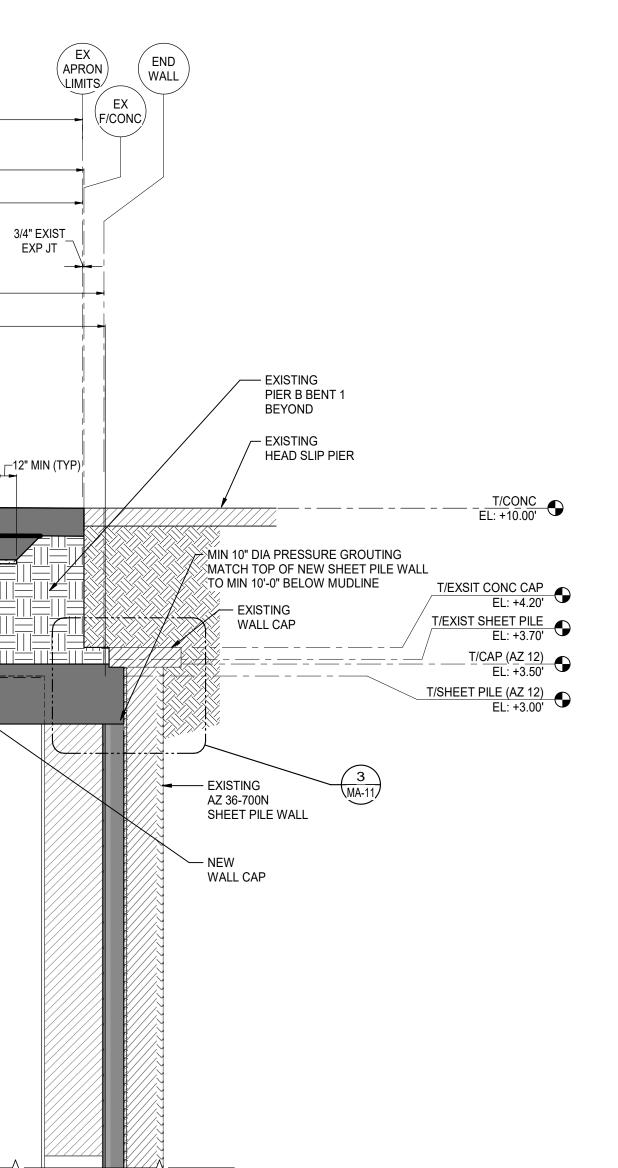
74'-0"		
74'-0 3/4"		
70'-6"		
73'-1 3/4"	CONTRACTOR TO REINSTALL EXISTING 90 LB A.R.A. RAIL WITH NEW CLIPS AND HARDWARE. TYPICAL (6) PLACES SEE NOTES 3, 4, & 5 ON DETAIL 1/MA-11 (17) AZ 12-770 SHEET PILES	
NEW 14" CONCRETE	CL/CL TRACK CL/CL TRACK MATCH EXISTING MATCH EXISTING	
TOP AND BOT, EA WAY AL FOR REPLACEMENT AND INLAY SLABS	2" CLEAN SAND LEVELING LAYER	
AND INLAY SLABS	CONC INLAY TO BE CAST AFTER RAILS ARE REINSTALLED	
	NEW SELECT FILL REFER TO GENERAL NOTES	
		,

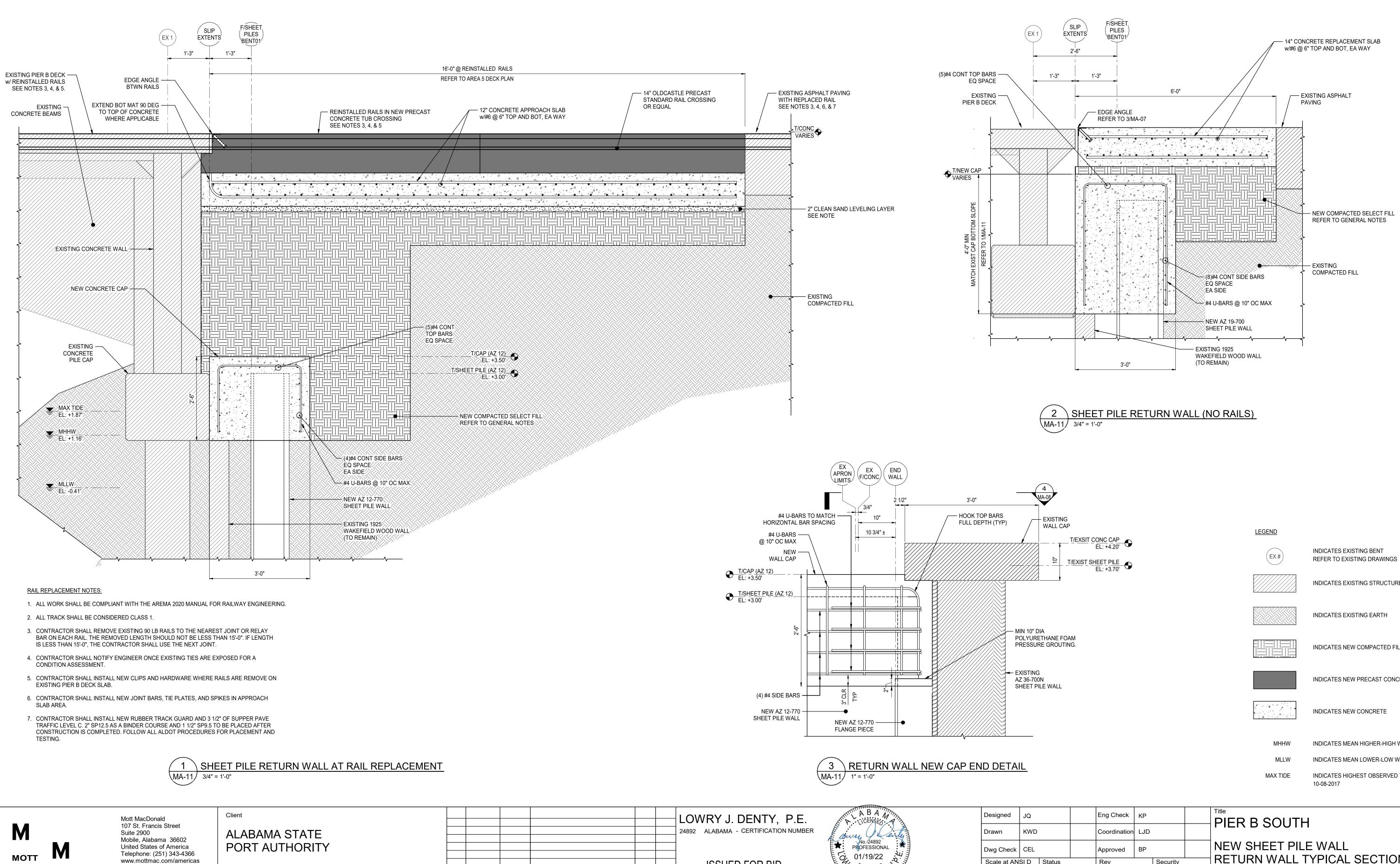
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PIER B SOUTH NEW SHEET PILE WALL RETURN WALL ELEVATION

FOR MOBILE STAT	TA IS FROM NOAA TIDE DATA WEB SITE TE DOCKS. DATUM NAVD 88 MA-11 FOR RAIL NOTES AND DETAILS
LEGEND	INDICATES NEW CONCRETE
	INDICATES EXISTING STRUCTURES
MHHW	INDICATES MEAN HIGHER-HIGH WATER
MLLW	INDICATES MEAN LOWER-LOW WATER
MAX TIDE	INDICATES HIGHEST OBSERVED TIDE 10-08-2017

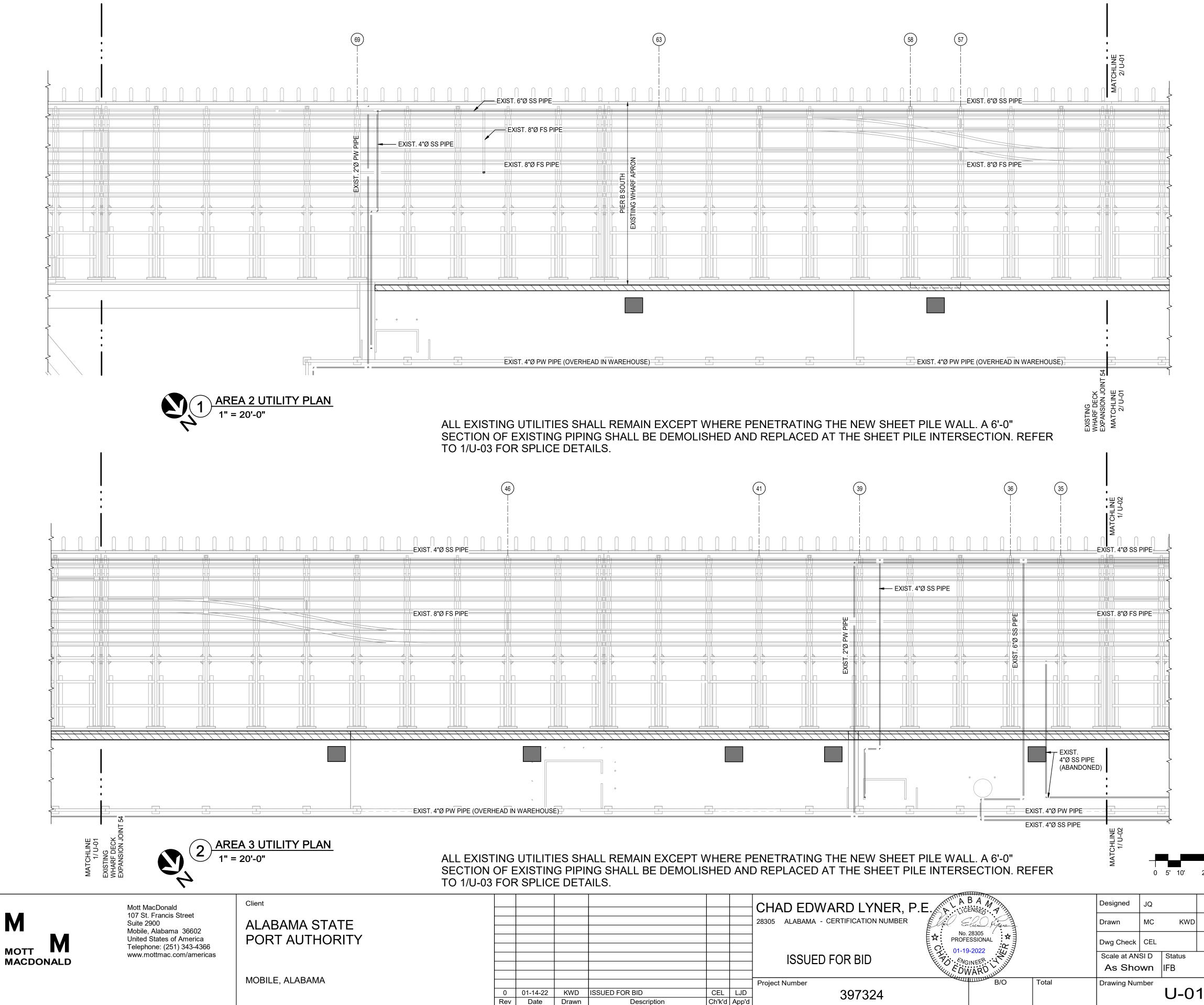




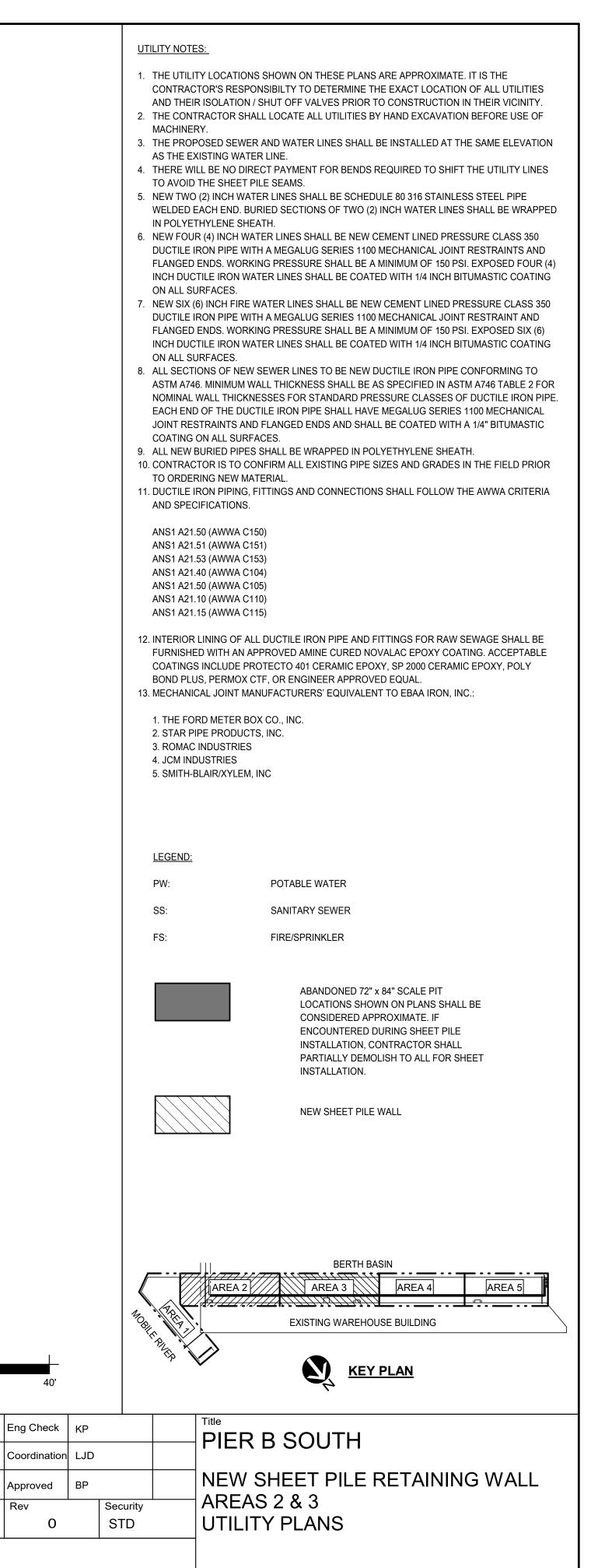
M	Mott MacDonald 107 St. Francis Street Suite 2900 Mobile, Alabama 36602 United States of America	Client ALABAMA STATE PORT AUTHORITY					24892 ALABAMA - CERTIFICATION NUMBER	CENSED CENSED CARPE CENSED CARPE CENSED CARPE		Designed JQ Drawn KWE		g Check KP ordination LJI	
	Telephone: (251) 343-4366 www.mottmac.com/americas							2.: 3		Dwg Check CEL Scale at ANSI D As Shown	Status R	proved BP	Security STD
		MOBILE, ALABAMA	0 01-14-22 Rev Date	KWD Drawn	ISSUED FOR BID Description	CEL LJD Ch'k'd App'd	Project Number 397324	B/O	Total	Drawing Number	MA-11		
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RETURN WALL TYPICAL SECTIONS

EX#	REFER TO EXISTING DRAWINGS
	INDICATES EXISTING STRUCTURES
	INDICATES EXISTING EARTH
	INDICATES NEW COMPACTED FILL
	INDICATES NEW PRECAST CONCRETE
	INDICATES NEW CONCRETE
МННЖ	INDICATES MEAN HIGHER-HIGH WATER
MLLW	INDICATES MEAN LOWER-LOW WATER
MAX TIDE	INDICATES HIGHEST OBSERVED TIDE 10-08-2017
Title	

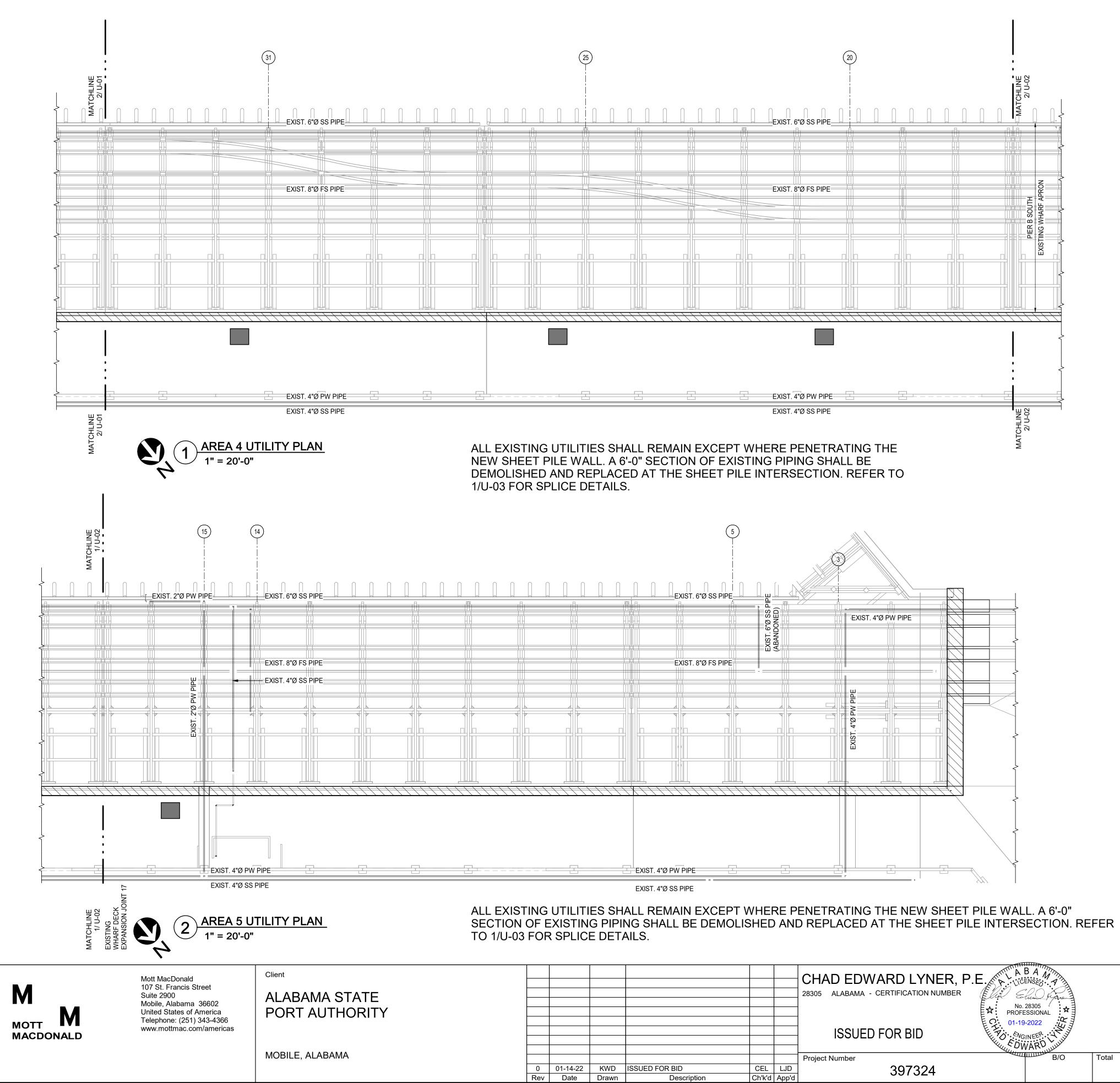


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	1					

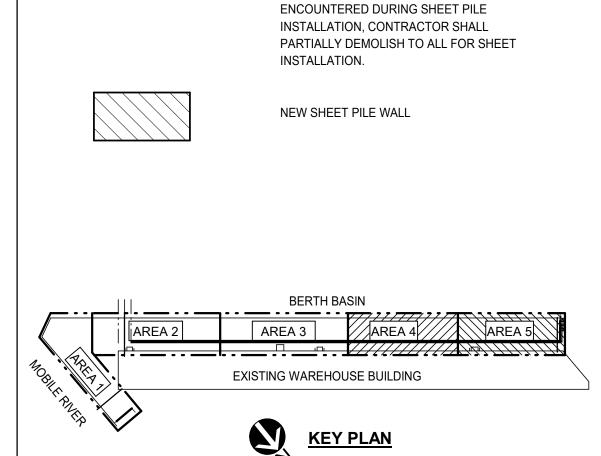
Rev



0	5'	10'	20)'

Μ	Mott MacDonald 107 St. Francis Street Suite 2900 Mobile, Alabama 36602	Client ALABAMA STATE							CHAD EDWARD LYNER, P.E. C.	Designed JC Drawn Mo	а с кw
MOTT MACDONALD	United States of America Telephone: (251) 343-4366 www.mottmac.com/americas	PORT AUTHORITY							ISSUED FOR BID	Dwg Check CE Scale at ANSI E As Showr) Status
		MOBILE, ALABAMA		1-14-22 Date	KWD Drawn	ISSUED FOR BID Description	CEL Ch'k'd	LJD App'd	Project Number B/O Total	Drawing Numbe	^r U-(
This drawing is the property of Mott MacDonald	and may not be reproduced without written permiss	on. This document should not be relied on or used in circumstances other than those fo	r which it was originally prepared and	d for which Mo	ott MacDonal	ld was commissioned. Mott MacDonald a	ccepts no respons	sibility for th	this document to any party other than the person or entity by whom it was commissioned.		

	40'		MOBIL	F. A.U.F.S	EXISTING WAREHOUSE BUILDING
	Eng Check	KP			
VD	Coordination	LJD			
	Approved	BP			NEW SHEET PILE RETAINING WALL
I	Rev		ecurity	I	AREAS 4 & 5
	0		STD		UTILITY PLANS
02					





SANITARY SEWER FIRE/SPRINKLER

ABANDONED 72" x 84" SCALE PIT

CONSIDERED APPROXIMATE. IF

LOCATIONS SHOWN ON PLANS SHALL BE

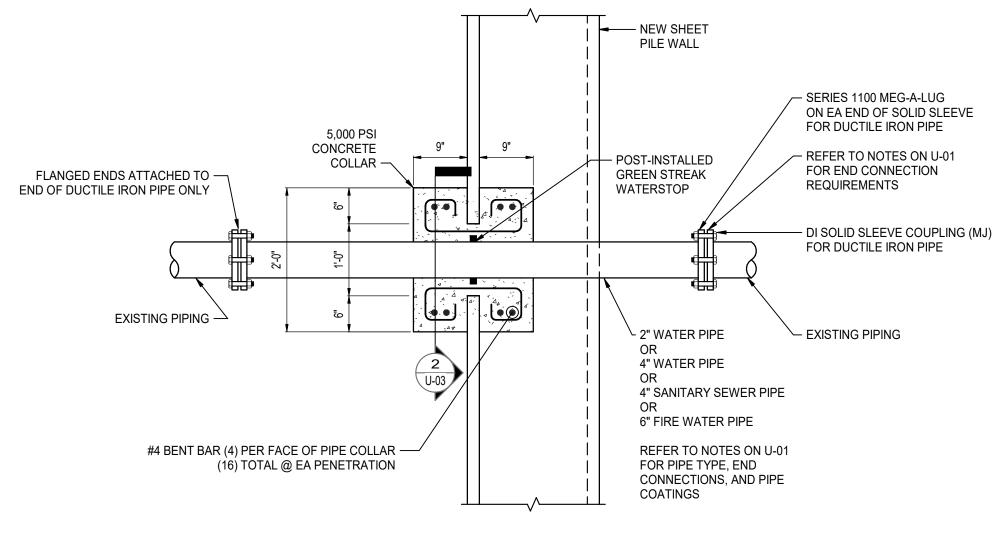
POTABLE WATER

PW:

SS:

FS:

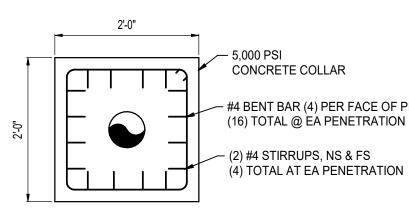
LEGEND:



WALL PENETRATION SECTION U-03 3/4" = 1'-0"

Client Mott MacDonald 107 St. Francis Street ALABAMA STATE Suite 2900 Mobile, Alabama 36602 PORT AUTHORITY United States of America Telephone: (251) 343-4366 мотт М www.mottmac.com/americas MACDONALD MOBILE, ALABAMA 0 01-14-22 Rev Date This drawing is the property of Mott MacDonald and may not be reproduced without written permission. This document should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald accepts no responsibility for this document to any party other than the person or entity by whom it was commissioned.

Μ



(16) TOTAL @ EA PENETRATION - (2) #4 STIRRUPS, NS & FS

FORGED (4) BOLT STAINLESS STEEL PIPE HANGER FLANGE FÒŔ 1/2", 5/8", OR 3/4" STAINLESS STEEL THREADED HANGER ROD. THREADED ROD TO MATCH STANDARD CLEVIS HANGER ROD SIZE

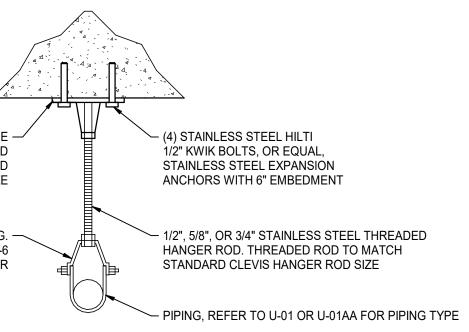
COOPER B-LINE FIG. — B3100-2 1/2", B3100-4, B3100-6 OR EQUAL, STAINLESS STEEL PIPE HANGER

NOTE: CONTRACTOR SHALL INSTALL MISSING PIPE SUPPORTS ON THE EXISTING PIPING BENEATH EXISTING PIER B SOUTH. THE PIPE SUPPORTS SHALL BE SPACED AT INTERVALS NOT TO EXCEED SPANS PER TABLE 308.5 2018 INTERNATIONAL PLUMBING CODE OR ASME B31.1-2001 TABLE 121.5



WD	ISSUED FOR BID	CEL	LJD	397324				U-03			
				Project Number	B/O	Total	Drawing Num	ıber		L. L.	
					WARD		As Sho	wn IFB	0	STD	
							Scale at ANS	SI D Status	Rev	Security	UTILITY DETAILS
				E•	lo. 28305 / ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		Dwg Check	CEL	Approved	BP	NEW SHEET PILE RETAINING WALL
				Flat	lo. 28305						
				28305 ALABAMA - CERTIFICATION NUMBER			Drawn	МС	Coordination	LJD	
				CHAD EDWARD LYNER, P.E.			Designed	JQ	Eng Check	KP	





PIPE SUPPORT DETAL 1 1/2" = 1'-0"