MOTT MACDONALD

PORT OF MOBILE
ALABAMA PORT AUTHORITY

APPENDIX E

EXISTING DRAWINGS

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
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DR. PATRICIA SIMS
HORACE HORN
THE HON. MERCERIA LUDGOOD

LOCATION MAP
NTS

AS-BUILT INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBSERVED AND SUPPLIED BY THE CONTRACTOR. MOTT MACDONALD DOES NOT ATTEST TO THE ACCURACY OF THE CONTRACTOR'S MARK-UPS, BUT SIGNIFICANT FIELD CHANGES SHOWN ON THE DRAWINGS WERE VERIFIED BY MOTT MACDONALD FOR CONFORMANCE WITH THE ORIGINAL DESIGN INTENT.

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Client
ALABAMA STATE
PORT AUTHORITY

MOBILE, ALABAMA

Rev	Date	Drawn	Description	Ch'k'd	App'd
2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER
AS-BUILT
RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY P.E.

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD	MC	Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: None | Status: IFC | Rev: 1 | Security: STD

Drawing Number: GA-01

Title
PIER B SOUTH
COVER SHEET

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GENERAL
PIER B SOUTH
397324
7/28/2023 9:22:18 AM

SHEET INDEX

GENERAL		
SHEET	REV	DRAWING NAME
GA-01	2	COVER SHEET
GA-02	2	SHEET INDEX AND SUMMARY OF WORK
GA-03	2	GENERAL NOTES AND ABBREVIATIONS
GA-04	2	OVERALL SITE PLAN
GA-05	2	GENERAL DEMOLITION NOTES
GA-06	2	GENERAL MARINE NOTES

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

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 REMOVAL OF RAILROAD TRACKS (WEST OF RETURN WALL AT BENT 1). TRACKS TO BE STORED BY CONTRACTOR AND GIVEN TO ASPA FOR FUTURE USE. 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. 1
10. INSTALL NEW PORTION OF RELIEVING PLATFORM CONCRETE SLAB.

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AS-BUILT RECORD

Project Number 397324 | B/O | Total

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Drawn	KWD MC		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
None	IFC	1	STD

Drawing Number GA-02

Title
PIER B SOUTH

SHEET INDEX AND SUMMARY OF WORK

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397324
7/28/2023 9:22:21 AM

GENERAL

PIER B SOUTH

397324

7/28/2023 9:22:25 AM

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

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

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 NECESSARY TO BID OR PERFORM THE WORK.

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 (O&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

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.

L. ABBREVIATIONS INDEX

AB	ANCHOR BOLT	LSH	LONG SLOTTED HOLES
APPROX	APPROXIMATE OR APPROXIMATELY	MAX	MAXIMUM
AWS	AMERICAN WELDING SOCIETY	MD	MOORING DOLPHIN
B/	BOTTOM OF	MISC	MISCELLANEOUS
BC	BOLT CIRCLE	MIN	MINIMUM
BD	BREASTING DOLPHIN	NIC	NOT IN CONTRACT
B/F	BACK FACE	NTS	NOT TO SCALE
BM	BEAM	OC	ON CENTER
BOT	BOTTOM	OD	OUTSIDE DIAMETER
B.O.	BOTTOM OF	O/F	OUTSIDE FACE
BOS	BOTTOM OF STEEL	OPP	OPPOSITE
C/C	CENTER TO CENTER	PL OR ℄	PLATE
CL OR ℄	CENTERLINE	PT	PRESSURE TREATED
CLR	CLEAR	RAD	RADIUS
COL	COLUMN	R/C	REINFORCED CONCRETE
CONC	CONCRETE	REF	REFERENCE
CONN	CONNECTION	REINF	REINFORCEMENT
CONST	CONSTRUCTION		OR REINFORCING
CONT	CONTINUOUS	REQD	REQUIRED
CP	CONTROL POINT	SC	SLIP CRITICAL
CTRD	CENTERED	SIM	SIMILAR
DET	DETAIL	S/T	SNUG TIGHTEN
DIA OR ∅	DIAMETER	SPA	SPACE OR SPACES
DWG	DRAWING	SPCD	SPACED
EA	EACH	SPCG	SPACING
EF	EACH FACE	SPEC	SPECIFICATION
EL:	ELEVATION (HEIGHT)	SSH	SHORT SLOTTED HOLES
ELEV	ELEVATION (VIEW)	STD	STANDARD
EOR	ENGINEER OF RECORD	STIFF	STIFFENER
EQ	EQUAL OR EQUALLY	STL	STEEL
EQIP	EQUIPMENT	SUPT	SUPPORT
EW	EACH WAY	SYMM	SYMMETRICAL
EWEF	EACH WAY, EACH FACE	THK	THICK OR THICKNESS
EX	EXISTING	T/	TOP OF
EXIST	EXISTING	TYP	TYPICAL
EXP	EXPANSION	UON	UNLESS OTHERWISE NOTED
F/	FACE OF	USACE	U.S. ARMY CORPS OF ENGINEERS
GALV	GALVANIZED	VERT	VERTICAL
GEN	GENERAL	w/	WITH
HB	HIGH STRENGTH BOLLARD	W/O	WITHOUT
HORIZ	HORIZONTAL	WP	WORKING POINT
HSB	HIGH STRENGTH BOLT		
ID	INSIDE DIAMETER		
INCL	INCLUDING		
JT	JOINT		
LOC	LOCATION		
LG	LONG		

M. SYMBOL LEGEND

PROPERTY LINE

PROJECT BOUNDARY LINE

WORK POINT

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LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY P.E.

Designed	JQ		Eng Check	KP	
Drawn	KWD MC		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: None | Status: IFC | Rev: 1 | Security: STD

Project Number: 397324 | B/O | Total

Drawing Number: GA-03

Title
PIER B SOUTH

GENERAL NOTES AND ABBREVIATIONS

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1 OVERALL SITE PLAN
1" = 200'-0"

LEGEND

- LIMITS OF EXISTING WAREHOUSE BUILDING
- LIMITS OF EXISTING RELIEVING PLATFORM
- LIMITS OF EXISTING SLAB ON GRADE
- LIMITS OF EXISTING PIER B SOUTH
- TUG BOAT BERTHING AREA
- PROJECT LIMITS

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397324
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Drawing Number: GA-04

Title
PIER B SOUTH
OVERALL SITE PLAN

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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.

C. UTILITIES

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.

AS-BUILT INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBSERVED AND SUPPLIED BY THE CONTRACTOR. MOTT MACDONALD DOES NOT ATTEST TO THE ACCURACY OF THE CONTRACTOR'S MARK-UPS, BUT SIGNIFICANT FIELD CHANGES SHOWN ON THE DRAWINGS WERE VERIFIED BY MOTT MACDONALD FOR CONFORMANCE WITH THE ORIGINAL DESIGN INTENT.

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MOBILE, ALABAMA

Rev	Date	Drawn	Description	Ch'k'd	App'd
2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD MC		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

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None	IFC	1	STD

Drawing Number GA-05

Title
PIER B SOUTH

GENERAL DEMOLITION NOTES

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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	A
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'

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 ¼ 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.

△1
8. ALL SHEET PILES:
   ZZ SECTIONS CAN BE USED IN LIEU OF AZ SECTIONS OF SAME SIZE AND GRADE.

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 SHEET PILE.
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

(NOT USED)

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

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MOBILE, ALABAMA

Rev	Date	Drawn	Description	Ch'k'd	App'd
2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL LOWRY J. DENTY, P.E. ENGINEER

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD MC		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

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Title
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GENERAL MARINE NOTES

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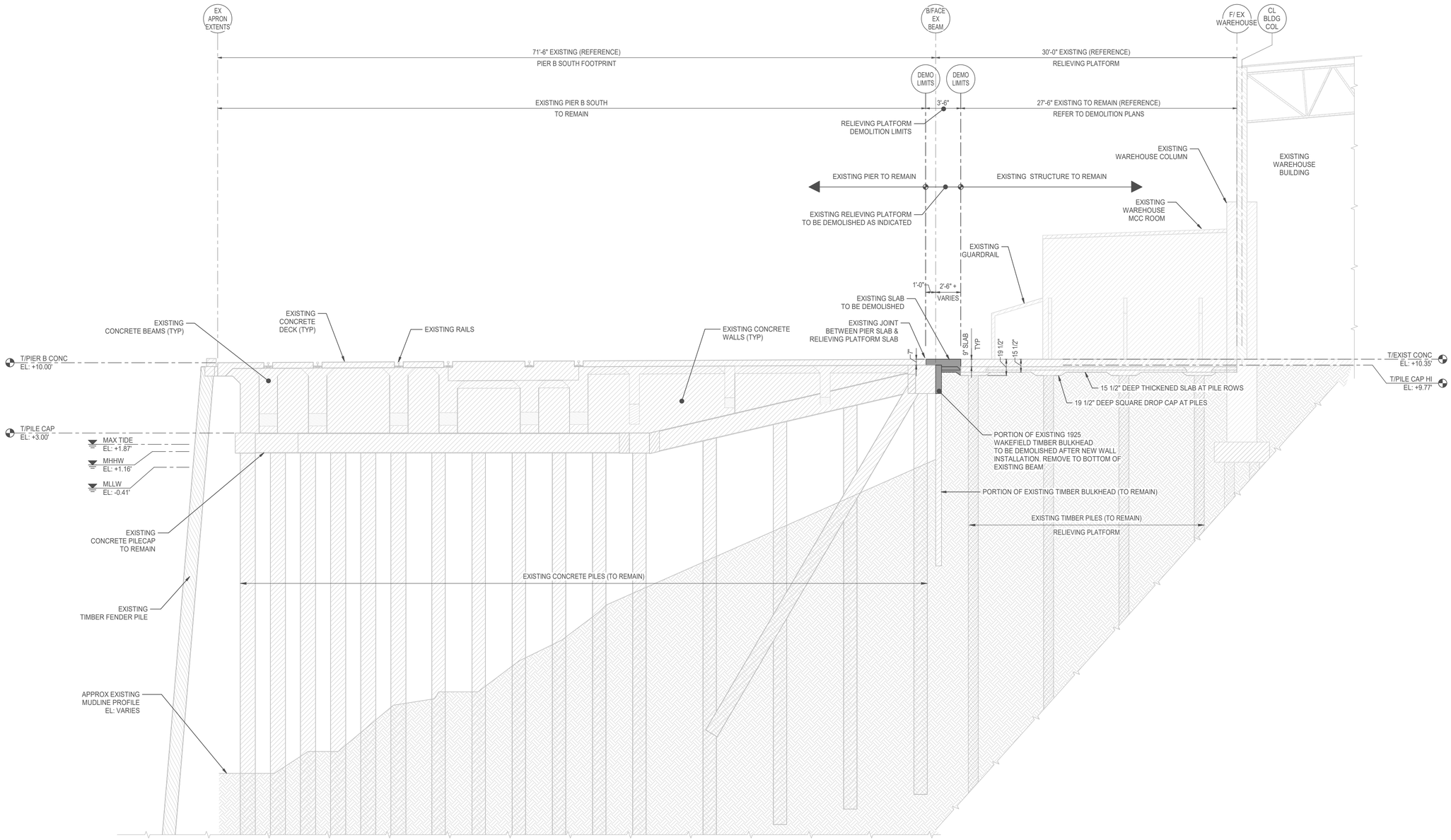

1 DEMOLITION BERTH BASIN SECTION AT MCC ROOM

3/16" = 1'-0"

DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING STRUCTURE TO REMAIN
- EXISTING SOIL

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0 5' 10'

SHEET PILE WALL REPLACEMENT
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Title
PIER B SOUTH

DEMOLITION
BERTH BASIN SECTION AT
WAREHOUSE MCC ROOM

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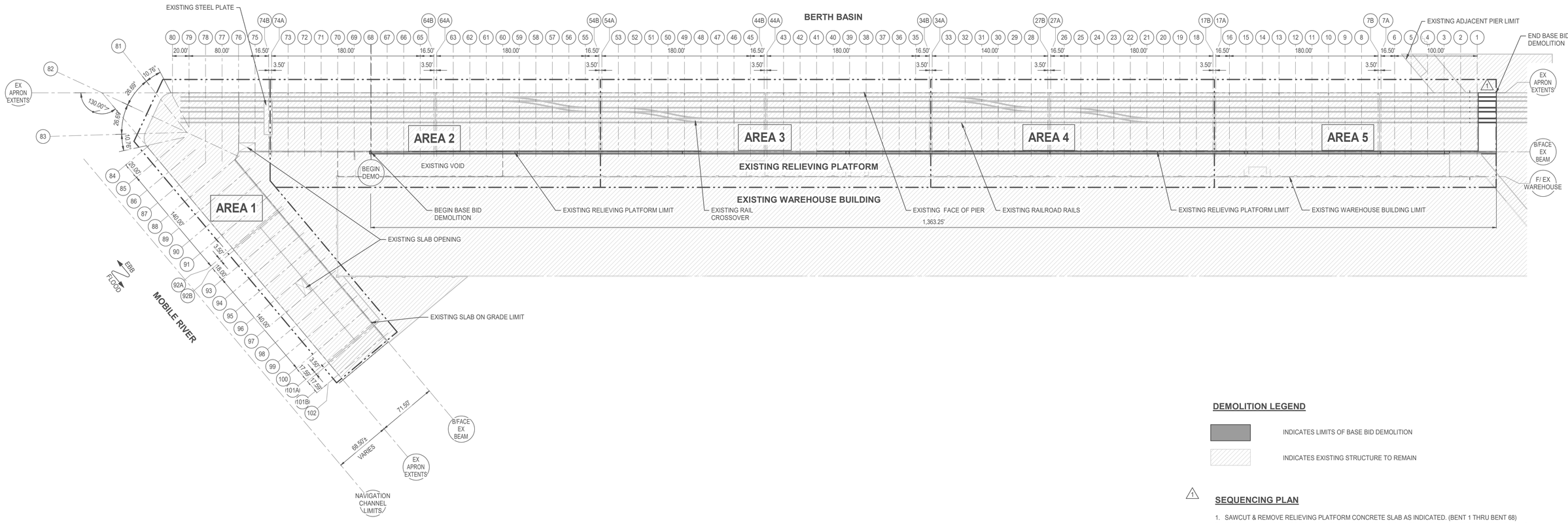

1 INDEX OF DEMOLITION PLAN AREAS
1" = 60'-0"

0 10' 30' 60' 120'

DEMOLITION LEGEND

INDICATES LIMITS OF BASE BID DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN

⚠1 SEQUENCING PLAN

1. SAWCUT & REMOVE RELIEVING PLATFORM CONCRETE SLAB AS INDICATED. (BENT 1 THRU BENT 68)
2. SAWCUT & REMOVE ASPHALT AND RAIL TRACK ALONG BENT 1 AS INDICATED. EXCAVATE AS REQUIRED.
3. INSTALL NEW STEEL SHEET PILE WALL.
4. FILL VOIDS UNDER RELIEVING PLATFORM WITH FLOWABLE FILL.
5. DEMOLISH EXISTING TIMBER BULKHEAD AS INDICATED.
6. INSTALL NEW CONCRETE CAP.
7. INSTALL NEW RELIEVING PLATFORM CONCRETE SLAB ON GRADE.
8. FILL, COMPACT, & INSTALL NEW ASPHALT PAVEMENT BEHIND NEW RETURN WALL ALONG BENT 1.

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SHEET PILE WALL REPLACEMENT
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AS-BUILT RECORD

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Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

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Title
PIER B SOUTH
DEMOLITION
OVERALL DECK
DEMOLITION PLAN

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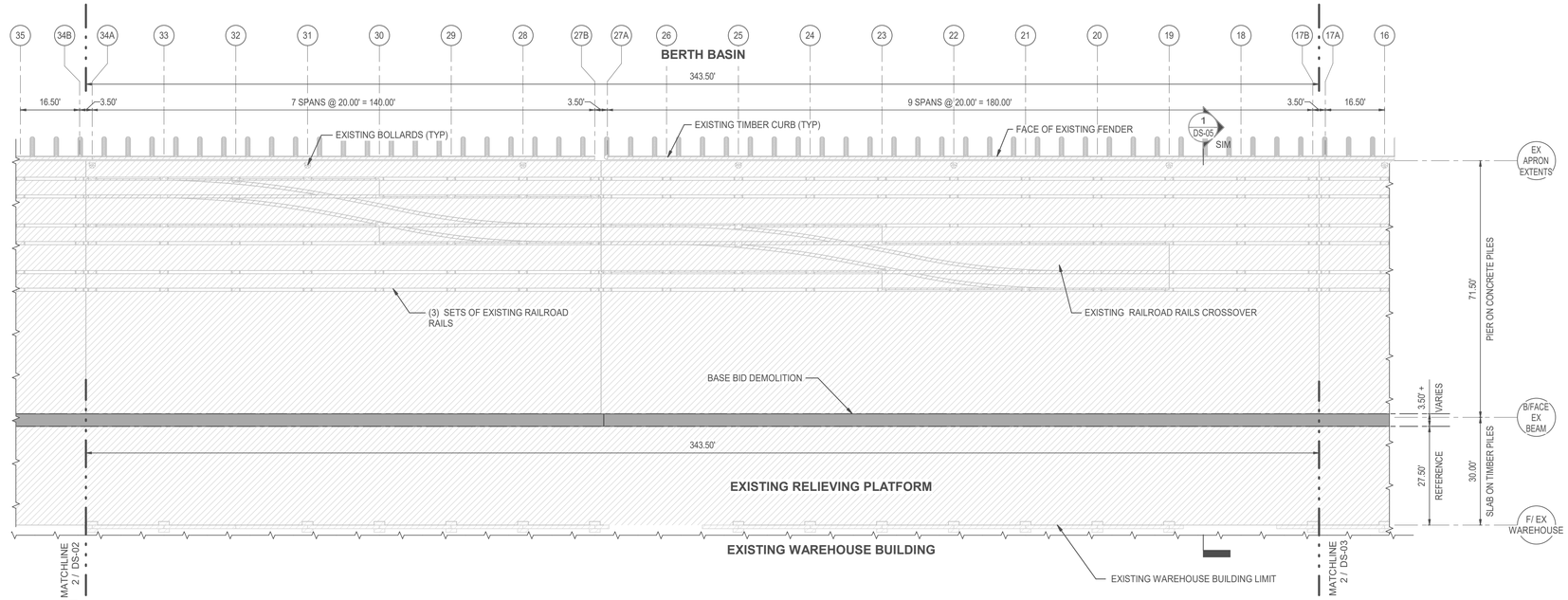
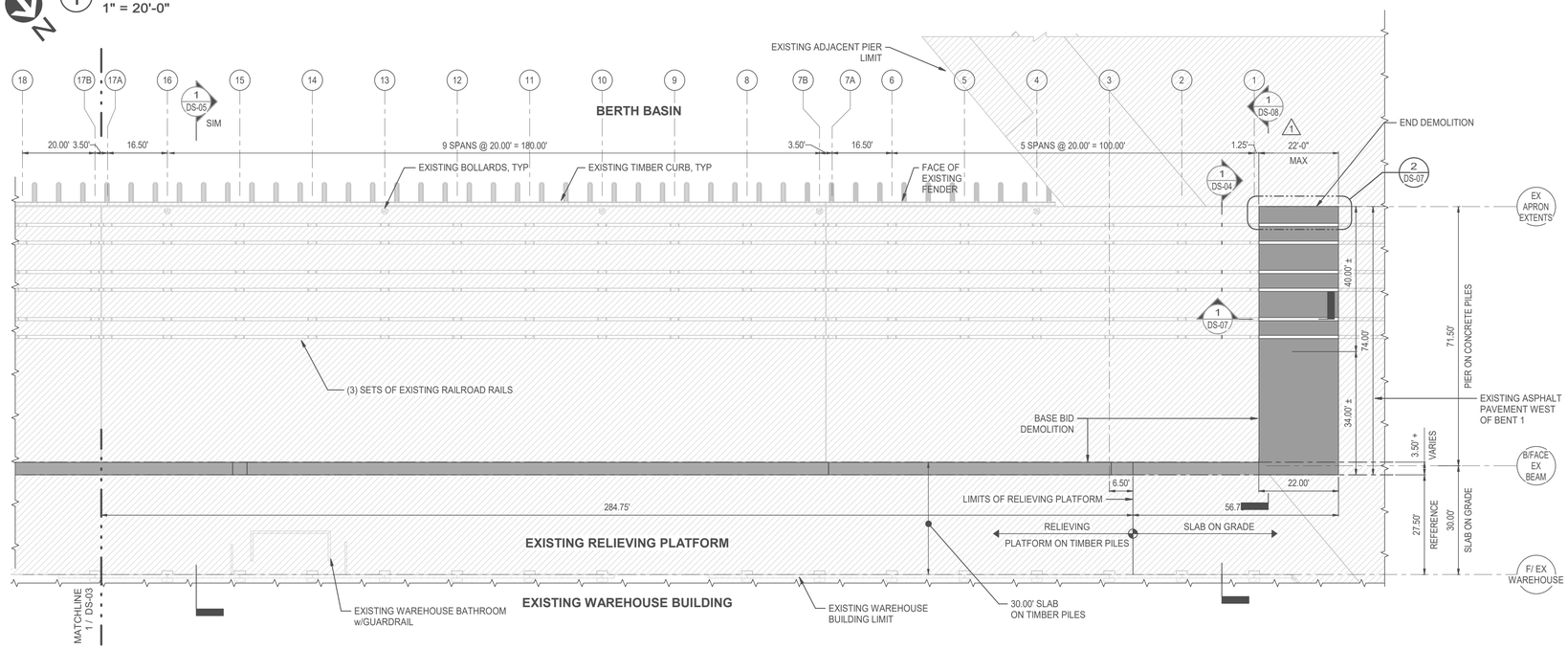


1 DEMOLITION DECK PLAN AREA 4
1" = 20'-0"

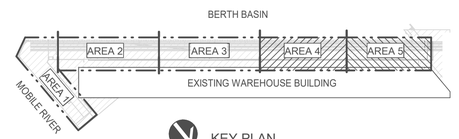


2 DEMOLITION DECK PLAN AREA 5
1" = 20'-0"

DEMOLITION LEGEND

INDICATES LIMITS OF BASE BID DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN



KEY PLAN

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0 5' 10' 20' 40'
SCALE: 1" = 20'

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2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	
Scale at ANSI D	As Shown	Status	IFC	Rev	1
Security	STD				

Project Number 397324 | B/O | Total

Drawing Number DS-03

Title
PIER B SOUTH

DEMOLITION DECK PLANS AREAS 4 & 5 (BENTS 1 - 34A)

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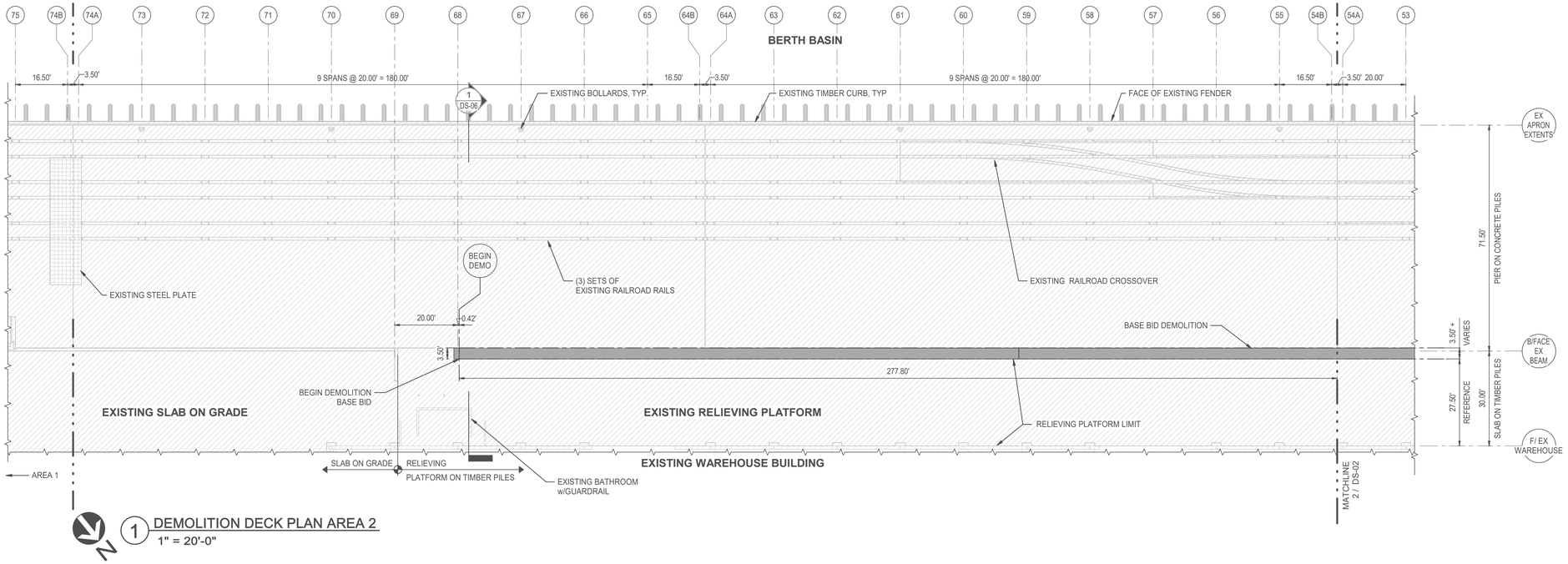
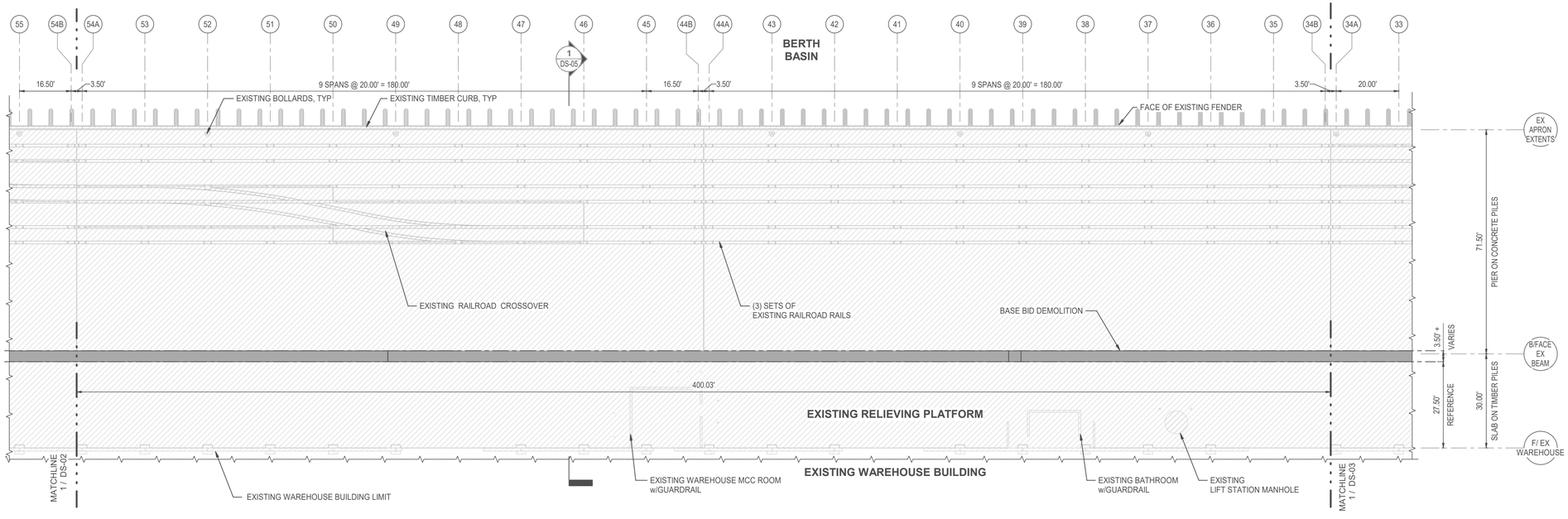
SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/31/2023 3:42:56 PM



N

1 DEMOLITION DECK PLAN AREA 2
1" = 20'-0"



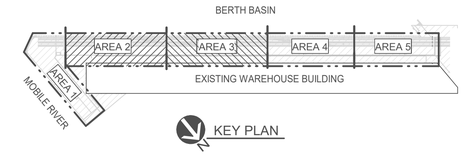
N

2 DEMOLITION DECK PLAN AREA 3
1" = 20'-0"

DEMOLITION LEGEND

INDICATES LIMITS OF BASE BID DEMOLITION

INDICATES EXISTING STRUCTURE TO REMAIN



KEY PLAN

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0 5' 10' 20' 40'
SCALE: 1" = 20'

SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/31/2023 3:43:07 PM

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1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Project Number	B/O	Total
397324		

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Drawing Number: DS-02

Title
PIER B SOUTH
DEMOLITION DECK PLANS AREAS 2 & 3 (BENTS 34B - 74A)

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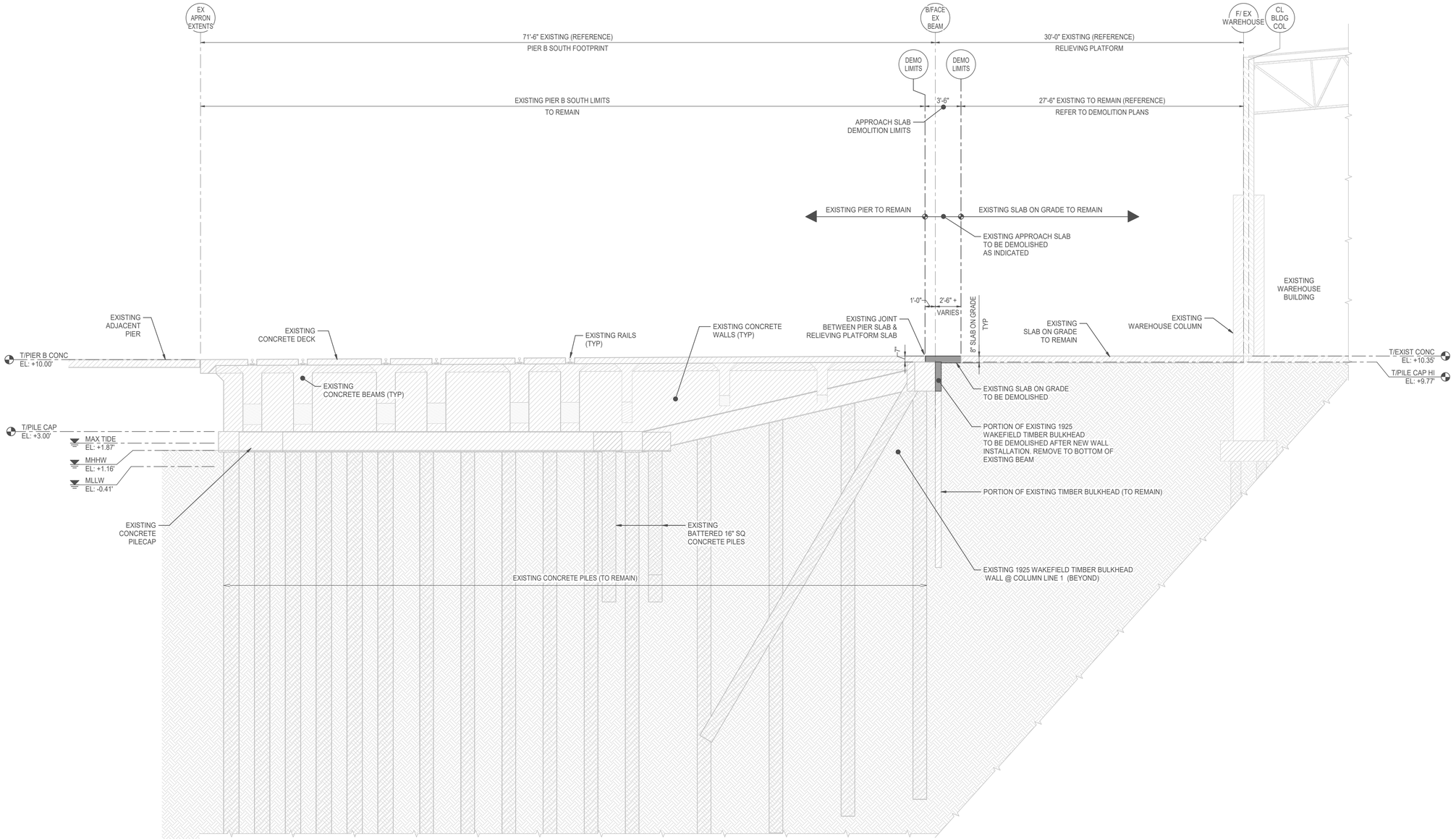

1 DEMOLITION SECTION AT EXISTING BENT 1
3/16" = 1'-0"

DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING STRUCTURE TO REMAIN
- EXISTING SOIL

AS-BUILT INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBSERVED AND SUPPLIED BY THE CONTRACTOR. MOTT MACDONALD DOES NOT ATTEST TO THE ACCURACY OF THE CONTRACTOR'S MARK-UPS, BUT SIGNIFICANT FIELD CHANGES SHOWN ON THE DRAWINGS WERE VERIFIED BY MOTT MACDONALD FOR CONFORMANCE WITH THE ORIGINAL DESIGN INTENT.

0 5' 10'

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2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

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AS-BUILT RECORD

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Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

Drawing Number: DS-04

Title
PIER B SOUTH

DEMOLITION
BERTH BASIN SECTION AT EXISTING BENT 1

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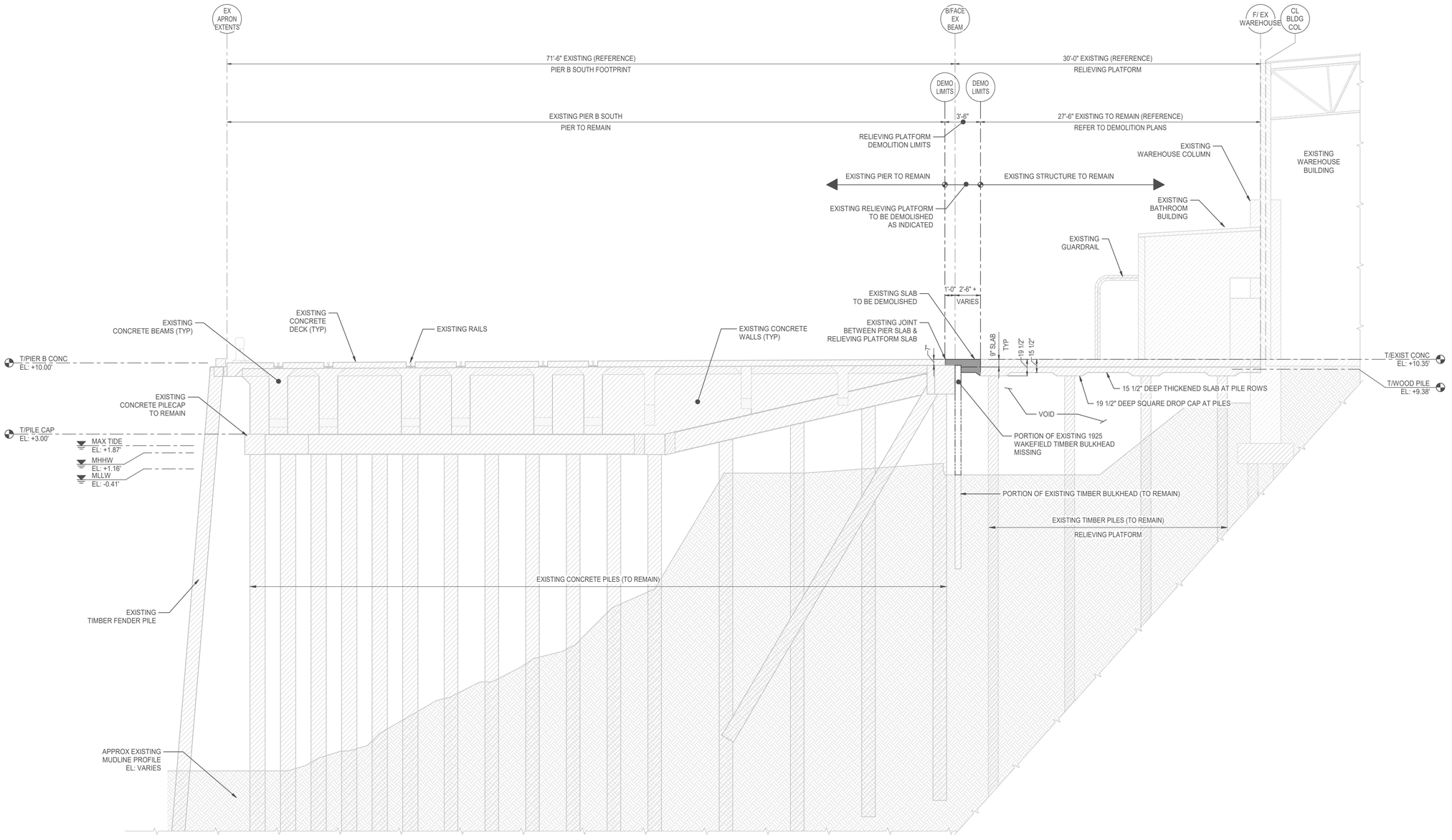

DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING STRUCTURE TO REMAIN
- EXISTING SOIL

1 DEMOLITION SECTION AT EXISTING BENT 67

3/16" = 1'-0"

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0 5' 10'

SHEET PILE WALL REPLACEMENT
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2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

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Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

Drawing Number: DS-06

Title
PIER B SOUTH
DEMOLITION
BERTH BASIN SECTION AT EXISTING BENT 67

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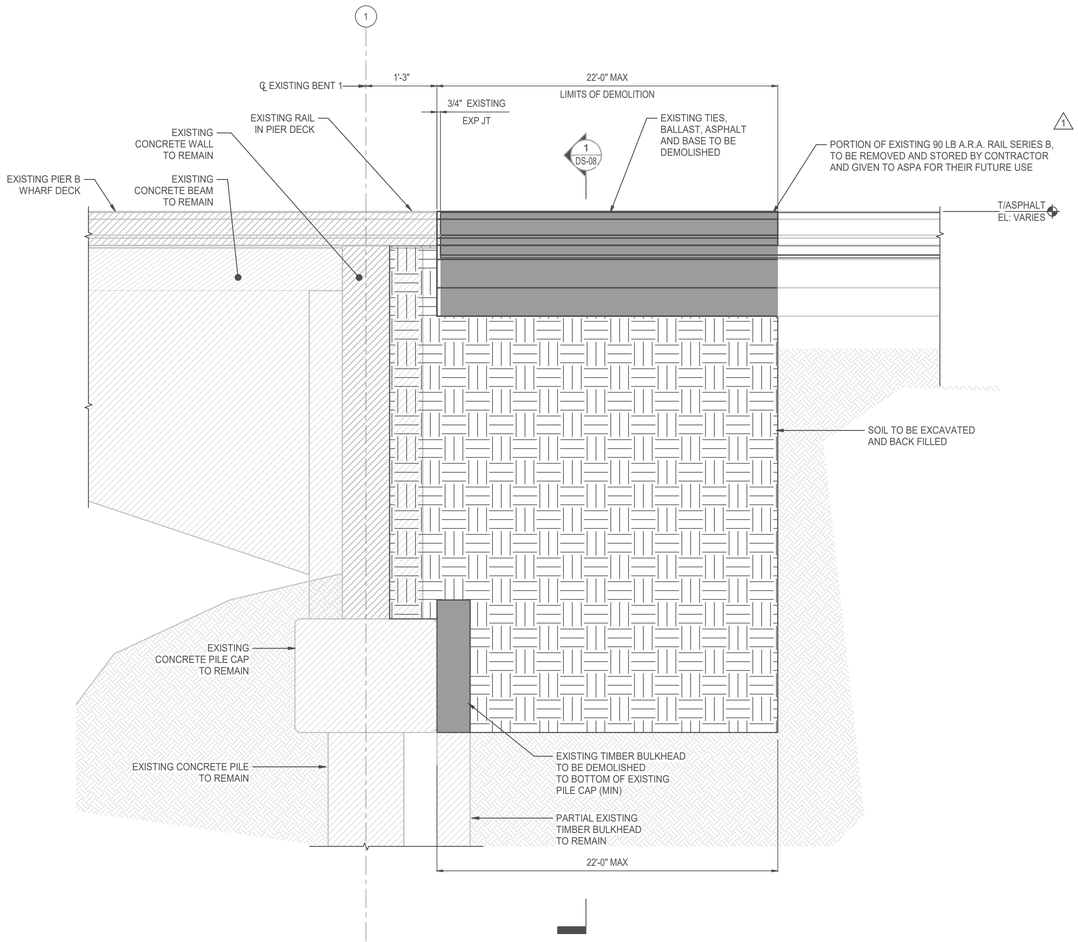
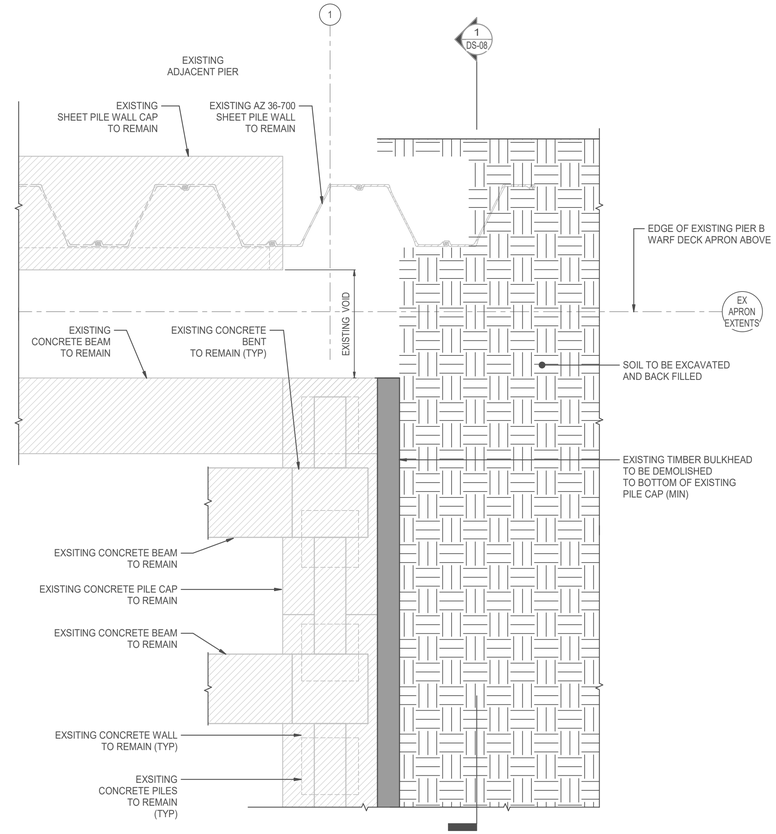


1 DS-07 DEMOLITION DETAIL AT RAIL TRACK EXISTING BENT 1

3/4" = 1'-0"



2 DS-07 DEMOLITION PARTIAL PLAN EXISTING BENT 1

1/2" = 1'-0"

DEMOLITION LEGEND

- INDICATES LIMITS OF DEMOLITION
- INDICATES EXISTING AREA TO BE EXCAVATED
- INDICATES EXISTING STRUCTURE TO REMAIN
- EXISTING SOIL

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SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
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1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT
RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY P.E.

Project Number 397324
B/O
Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Drawing Number DS-07

Title
PIER B SOUTH

DEMOLITION
DETAILS

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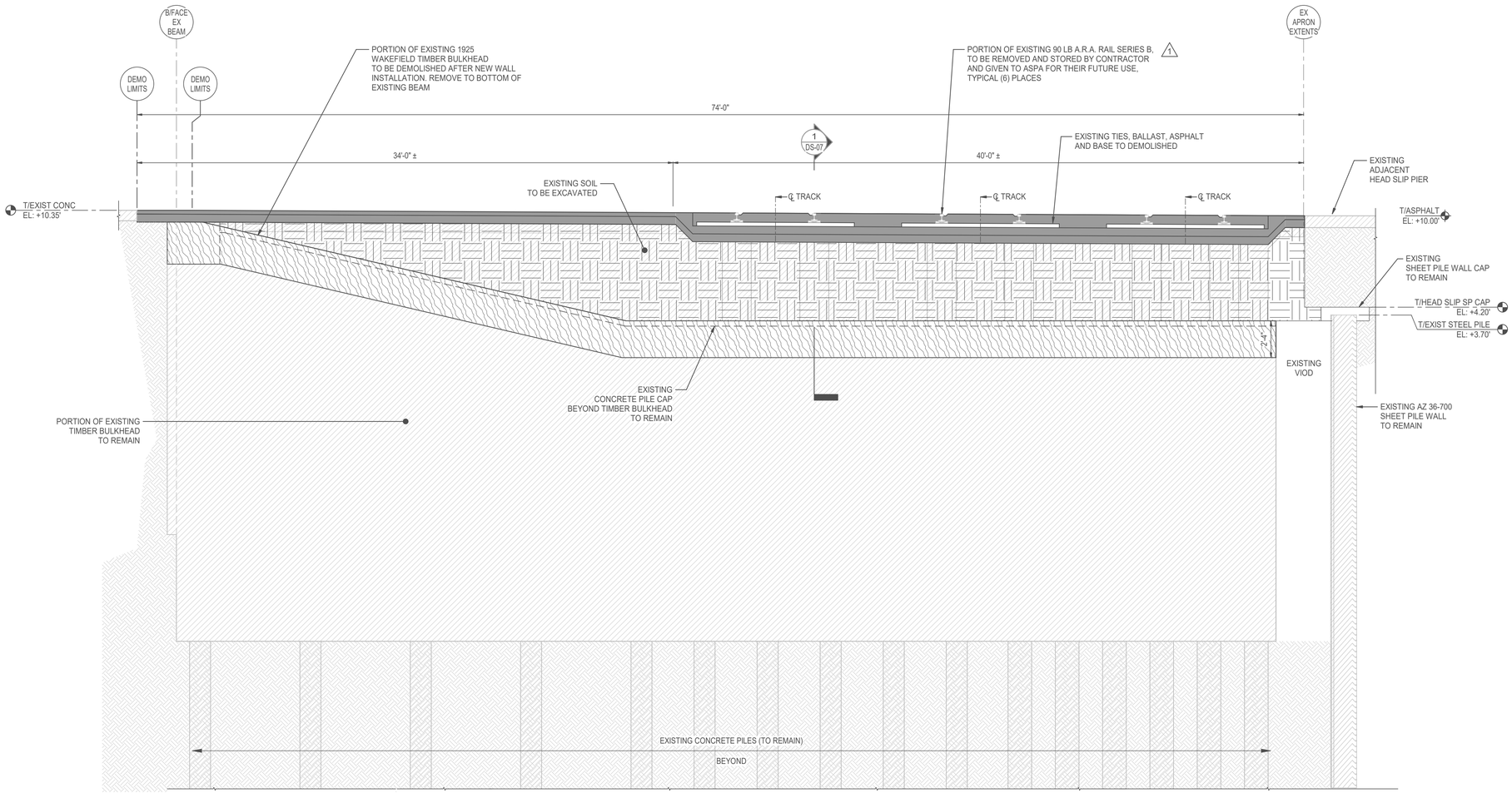

1 DEMOLITION WALL SECTION AT EXISTING BENT 1
1/4" = 1'-0"

DEMOLITION LEGEND

- INDICATES LIMITS OF PAVEMENT DEMOLITION
- INDICATES LIMITS OF WOOD BULKHEAD DEMOLITION
- INDICATES EXISTING AREA TO BE EXCAVATED
- INDICATES EXISTING STRUCTURE TO REMAIN
- EXISTING SOIL

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0 1' 2' 4' 8'
SCALE: 1/4" = 1'-0"

SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/31/2023 3:43:25 PM

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2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER
AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Project Number 397324 | B/O | Total

Drawing Number DS-08

Title
PIER B SOUTH
DEMOLITION DETAILS

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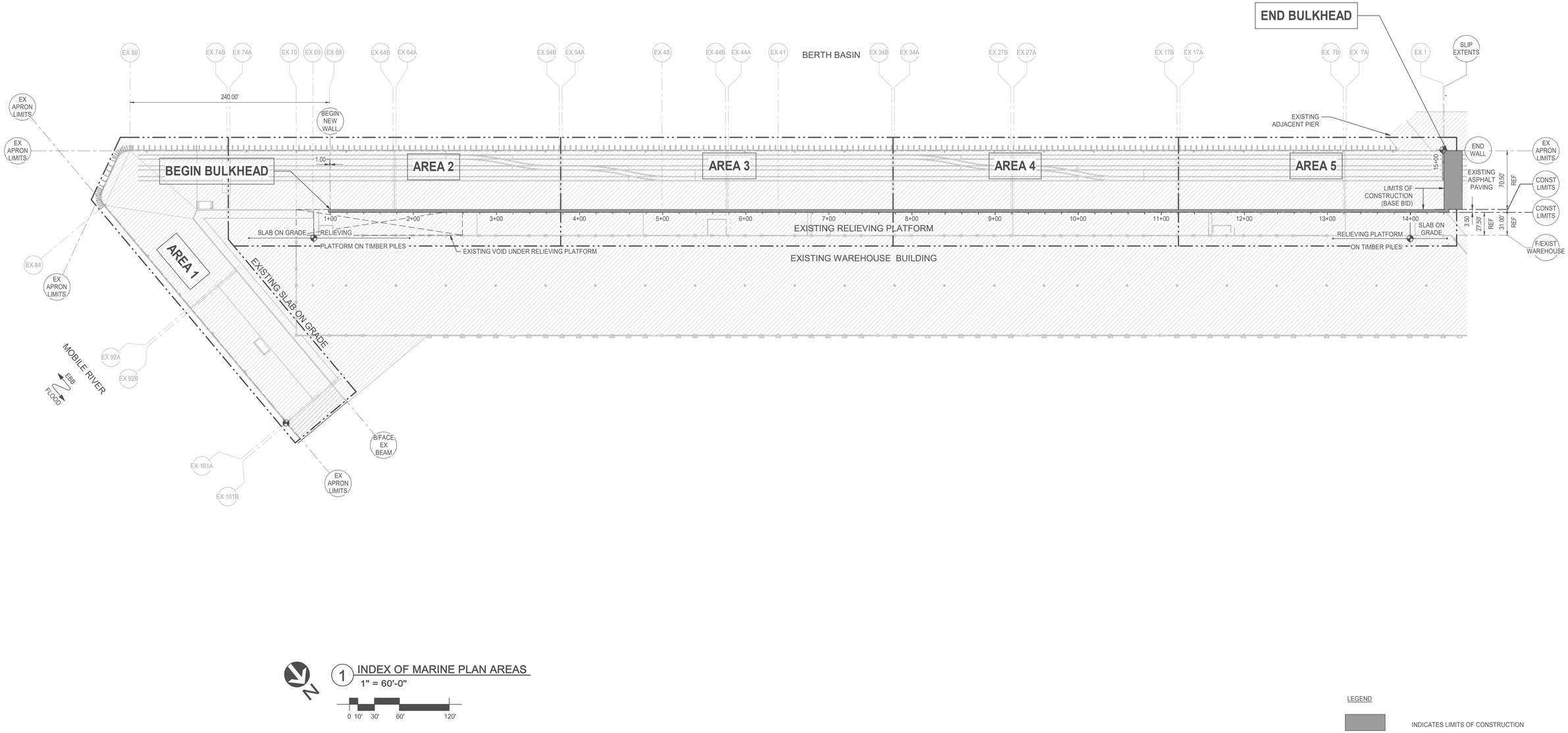

1 INDEX OF MARINE PLAN AREAS
1" = 60'-0"

0 10' 30' 60' 120'

LEGEND

- INDICATES LIMITS OF CONSTRUCTION
- INDICATES EXISTING STRUCTURES
- EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS

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2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

Drawing Number: MA-01

Title
PIER B SOUTH

NEW SHEET PILE WALL
INDEX OF PLAN AREAS

SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/31/2023 3:51:58 PM

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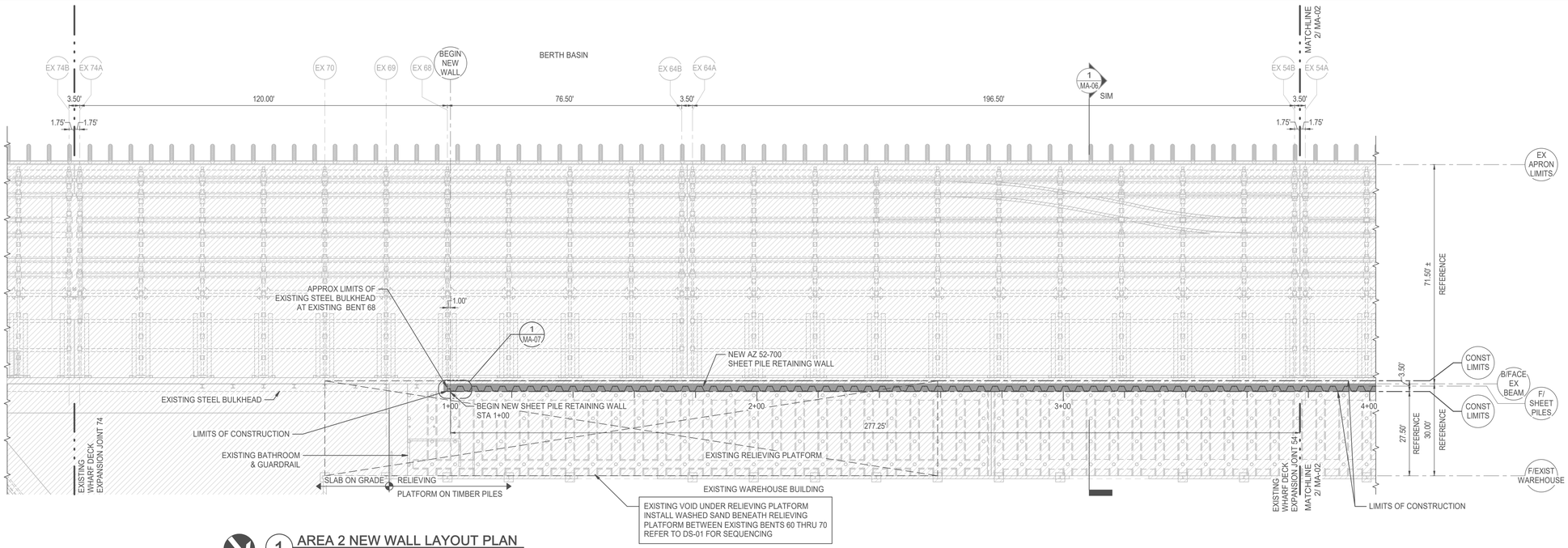
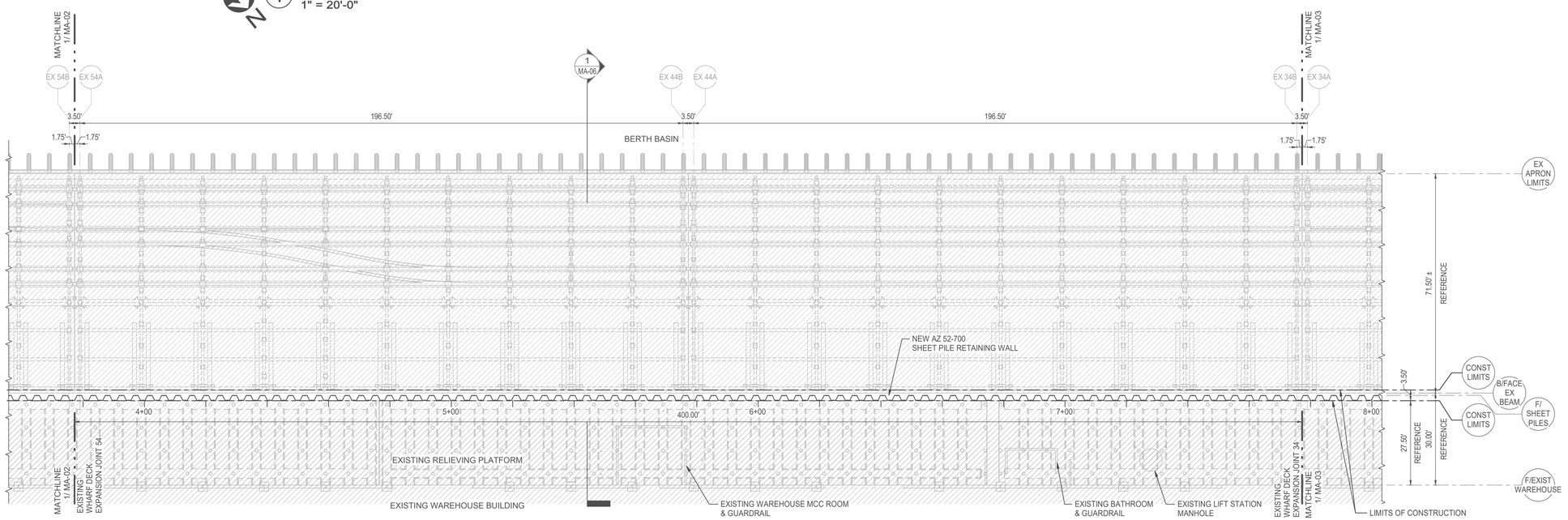


N

1 AREA 2 NEW WALL LAYOUT PLAN

1" = 20'-0"



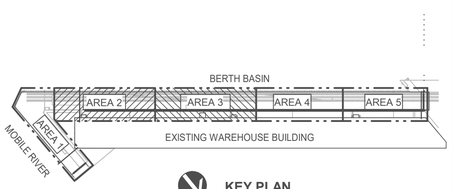
N

2 AREA 3 NEW WALL LAYOUT PLAN

1" = 20'-0"

LEGEND

- INDICATES NEW AZ 52-700 SHEET PILE WALL (OR ZZ SHEET PILES OF THE SAME SIZE) (1)
- INDICATES EXISTING STRUCTURES
- EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS



N

KEY PLAN

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0 5' 10' 20' 40'

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2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

Drawing Number: MA-02

Title

PIER B SOUTH

NEW SHEET PILE WALL
AREAS 2 & 3
WALL PLANS

SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
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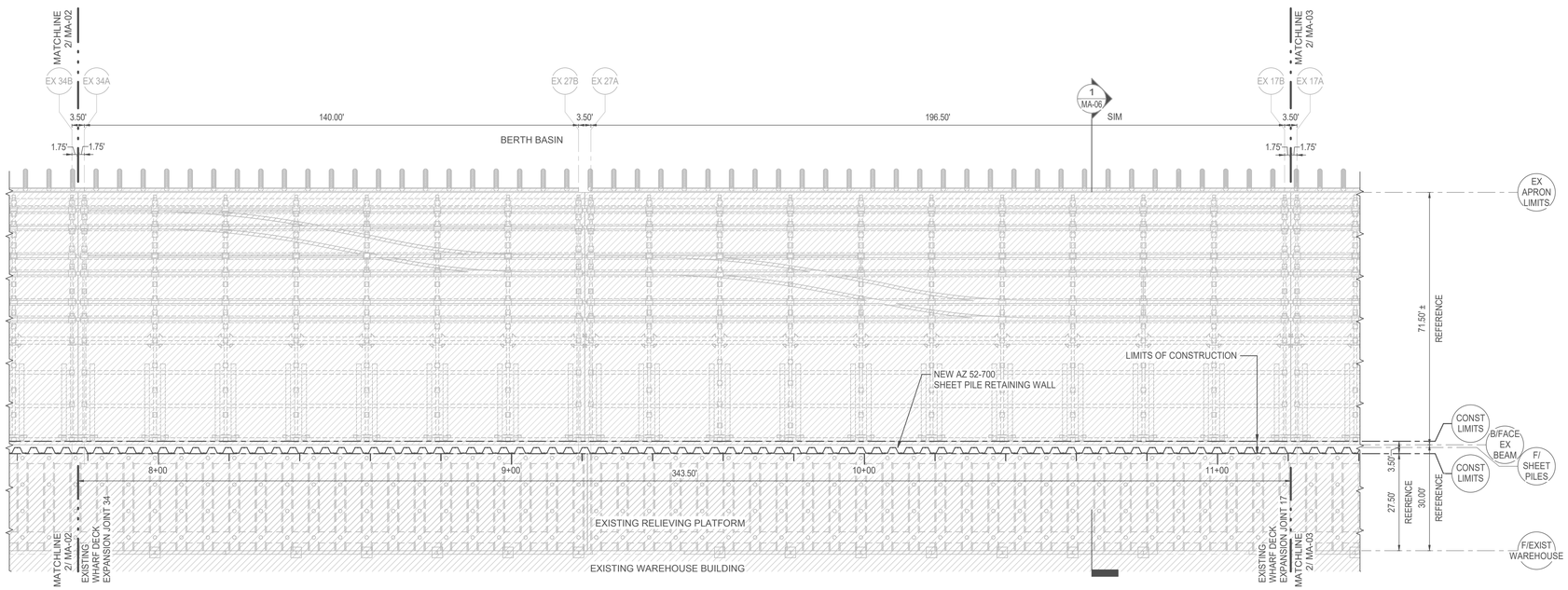
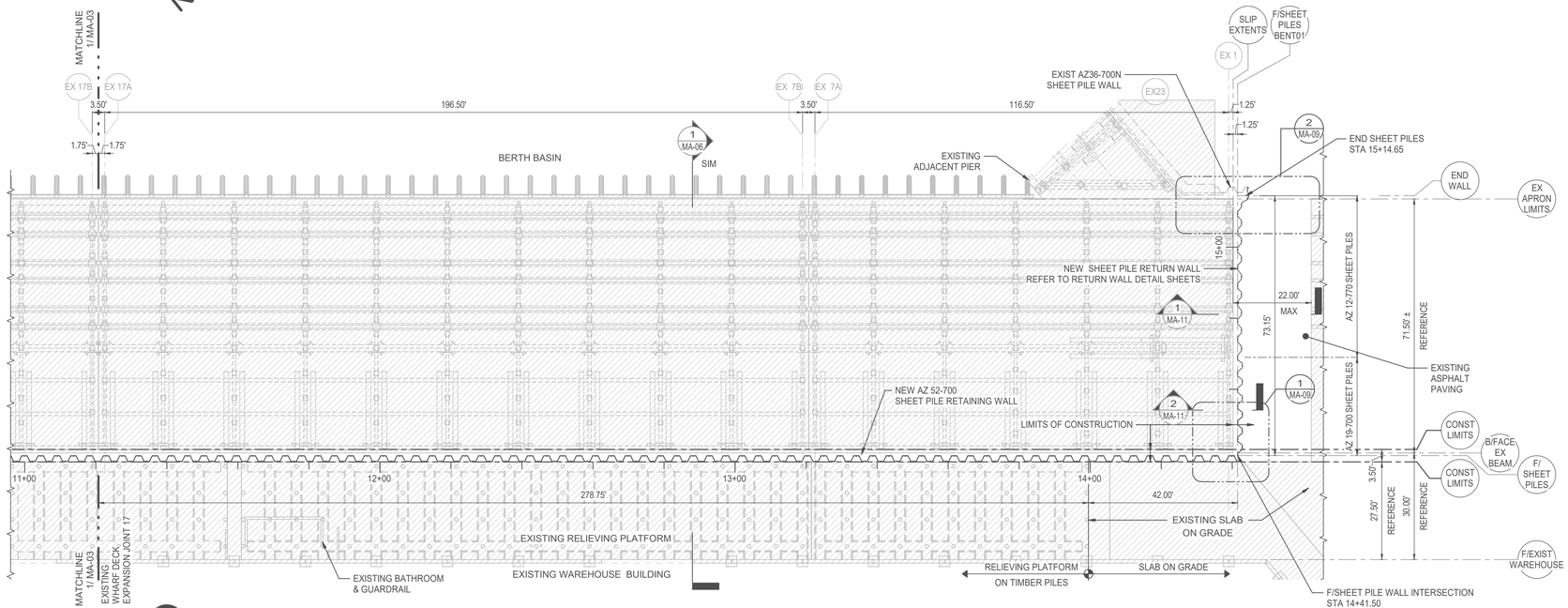


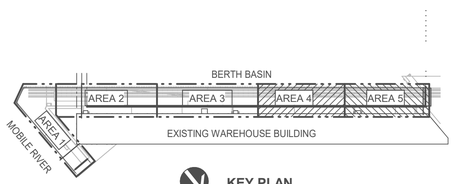
1 AREA 4 NEW WALL LAYOUT PLAN
1" = 20'-0"



2 AREA 5 NEW WALL LAYOUT PLAN
1" = 20'-0"

LEGEND

- INDICATES NEW AZ 52-700 SHEET PILE WALL (OR ZZ SHEET PILES OF THE SAME SIZE) 1
- INDICATES NEW AZ 19-700 SHEET PILE WALL (OR ZZ SHEET PILES OF THE SAME SIZE) 1
- INDICATES NEW AZ 12-770 SHEET PILE WALL (OR ZZ SHEET PILES OF THE SAME SIZE) 1
- INDICATES EXISTING STRUCTURES
- EX # INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS



KEY PLAN

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0 5' 10' 20' 40'

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ALABAMA STATE PORT AUTHORITY

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Rev	Date	Drawn	Description	Ch'k'd	App'd
2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Drawing Number MA-03

Title
PIER B SOUTH

NEW SHEET PILE WALL
AREAS 4 & 5
WALL PLANS

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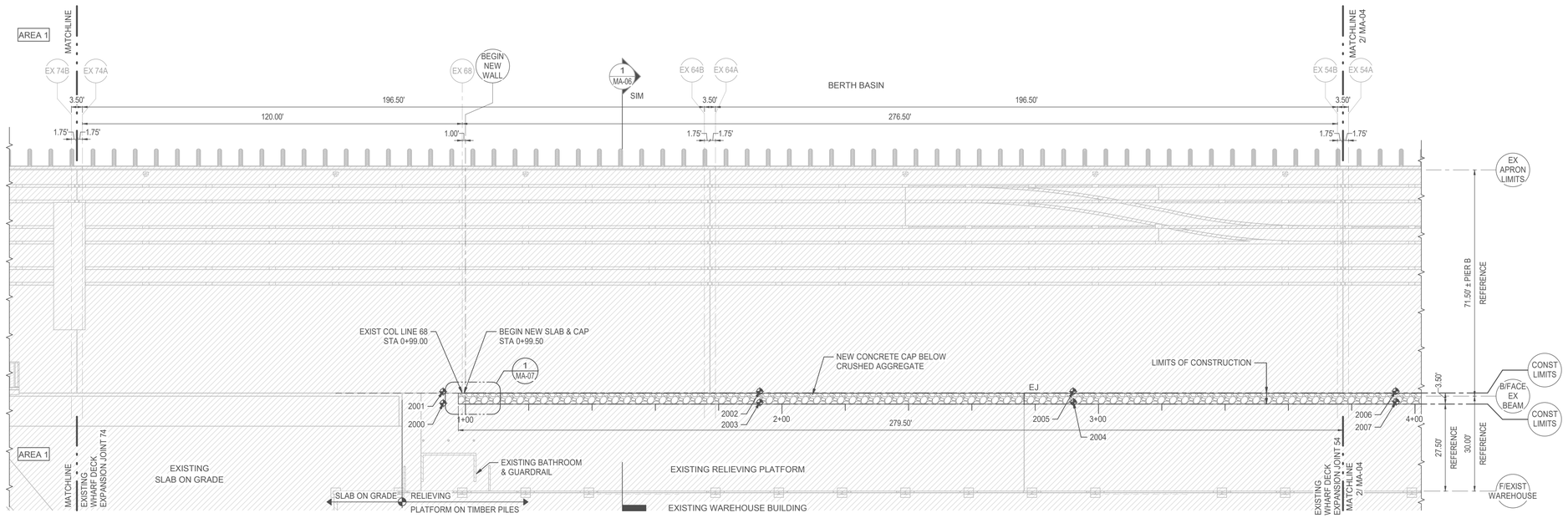
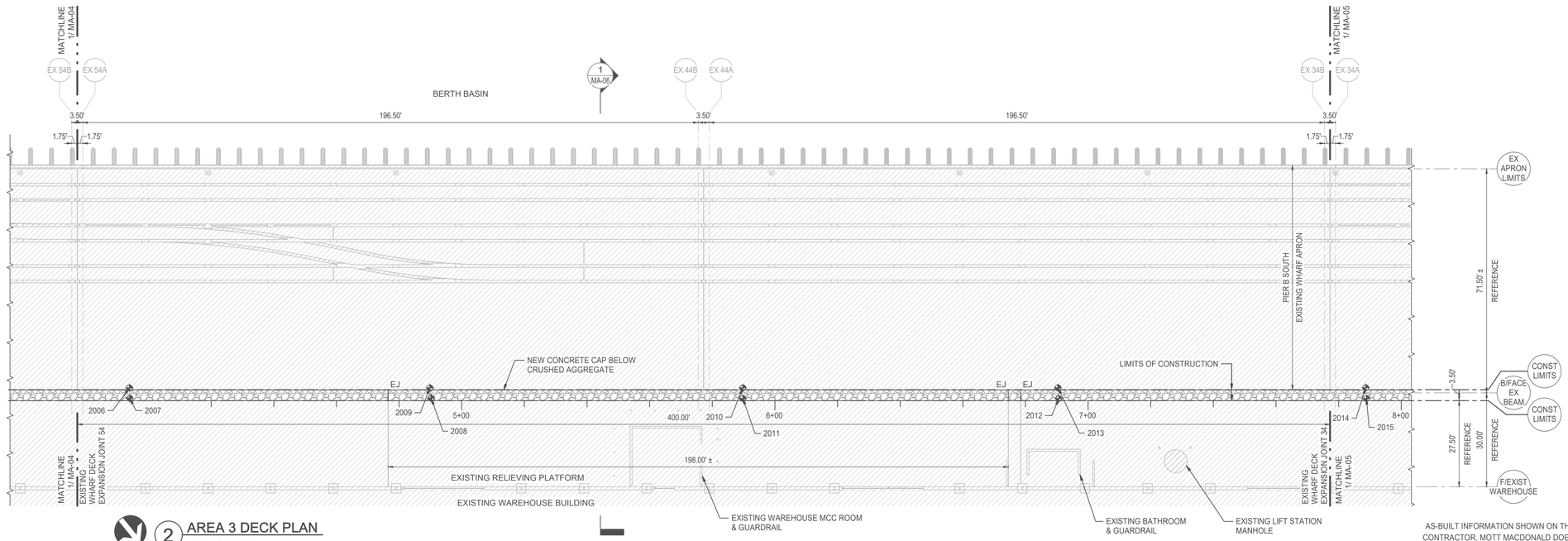
SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/31/2023 3:52:27 PM



N 1 AREA 2 DECK PLAN
1" = 20'-0"



N 2 AREA 3 DECK PLAN
1" = 20'-0"

CONCRETE PILE CAP AS-BUILT ELEVATIONS

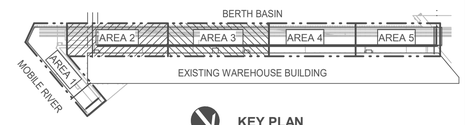
Benchmark	Northing	Easting	Elevation
2000	257597.24	1798667.44	9.721
2001	257594.03	1798665.66	9.532
2002	257643.82	1798578.86	9.423
2003	257646.84	1798580.59	9.317
2004	257696.13	1798494.63	9.302
2005	257693.14	1798493.01	9.394
2006	257743.86	1798404.62	9.323
2007	257746.79	1798406.16	9.172
2008	257794.64	1798322.76	8.963
2009	257791.62	1798321.43	9.081
2010	257841.39	1798234.79	9.239
2011	257844.34	1798236.46	9.102
2012	257894.61	1798149.04	9.250
2013	257891.51	1798147.55	9.427
2014	257940.43	1798062.31	9.339
2015	257943.55	1798063.80	9.211
2016	257992.96	1797977.59	9.408
2017	257990.00	1797975.95	9.460
2018	258041.97	1797891.90	9.176
2019	258039.16	1797890.31	9.290
2020	258096.02	1797798.09	9.483
2021	258093.94	1797797.04	9.479

NOTES:

1. REFER TO PLANS FOR BENCHMARK LOCATIONS.

LEGEND

- INDICATES NEW CRUSHED AGGREGTATE
- INDICATES EXISTING STRUCTURES
- EJ — INDICATES EXISTING SLAB EXPANSION JOINT
- EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS



KEY PLAN

AS-BUILT INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBSERVED AND SUPPLIED BY THE CONTRACTOR. MOTT MACDONALD DOES NOT ATTEST TO THE ACCURACY OF THE CONTRACTOR'S MARK-UPS, BUT SIGNIFICANT FIELD CHANGES SHOWN ON THE DRAWINGS WERE VERIFIED BY MOTT MACDONALD FOR CONFORMANCE WITH THE ORIGINAL DESIGN INTENT.

0 5' 10' 20' 40'

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MOBILE, ALABAMA

Rev	Date	Drawn	Description	Ch'k'd	App'd
2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY P.E.

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

Drawing Number: MA-04

Title
PIER B SOUTH

NEW SHEET PILE WALL
AREAS 2 & 3
RELIEVING PLATFORM DECK REPAIR
PLANS

SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/31/2023 3:52:41 PM

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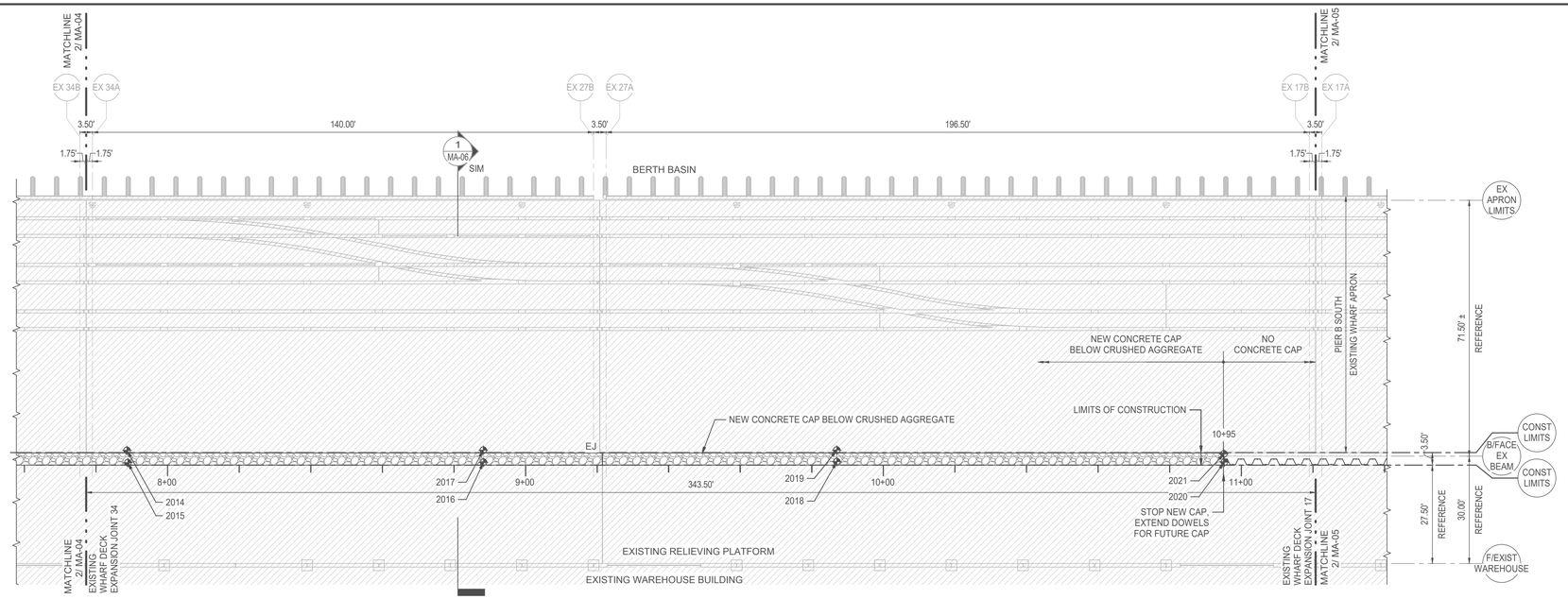
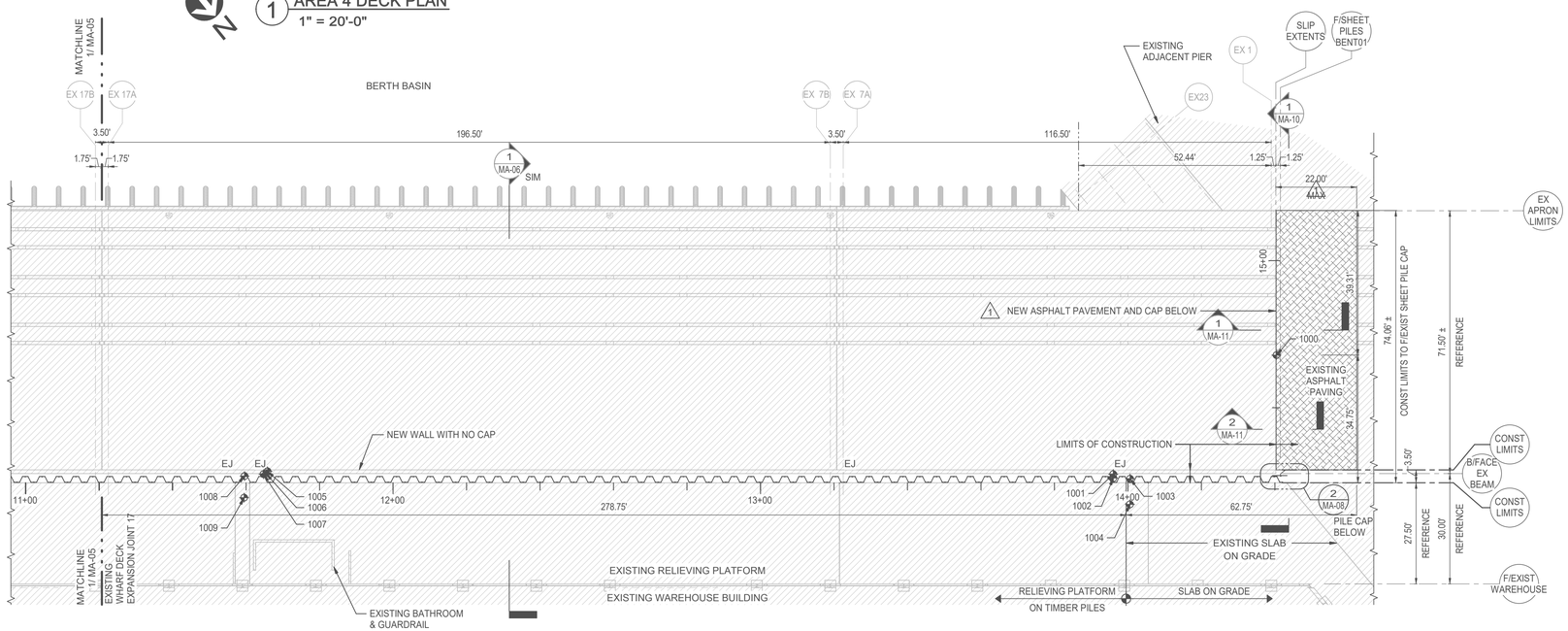


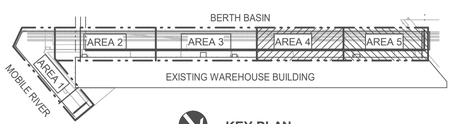
1 AREA 4 DECK PLAN
1" = 20'-0"



2 AREA 5 DECK PLAN
1" = 20'-0"

LEGEND

- INDICATES NEW CRUSHED AGGREGATE
- 1 — INDICATES NEW ASPHALT PAVEMENT REFER TO DETAIL 4/MA-11
- INDICATES EXISTING STRUCTURES
- INDICATES NEW AZ 52-700 SHEET PILE WALL (OR ZZ SHEET PILES OF THE SAME SIZE)
- EJ — INDICATES EXISITNG SLAB EXPANSION JOINT
- EX.# — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS



KEY PLAN

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Rev	Date	Drawn	Description	Ch'k'd	App'd
2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Drawing Number MA-05

Title
PIER B SOUTH

NEW SHEET PILE WALL
AREAS 4 & 5
RELIEVING PLATFORM DECK REPAIR
PLANS

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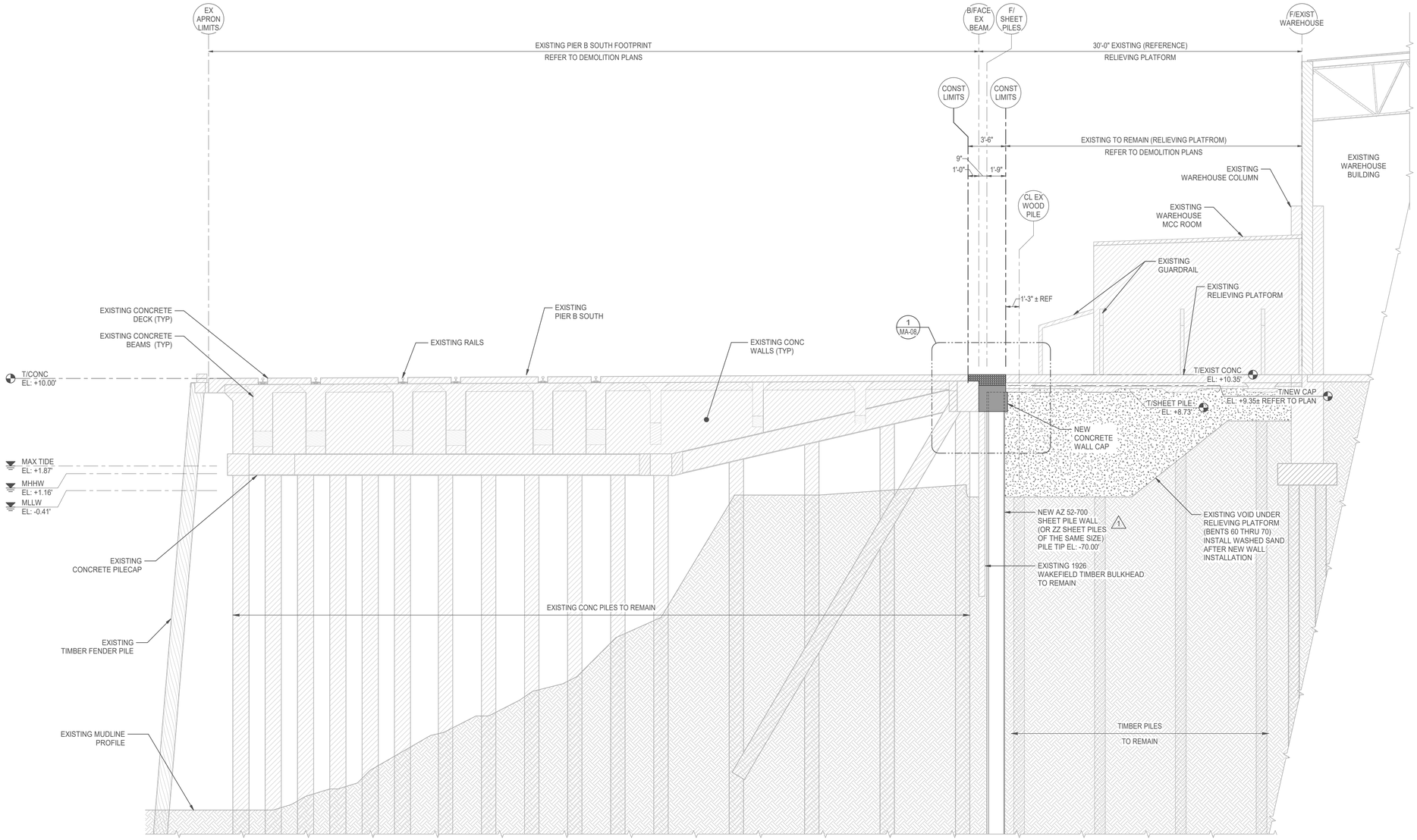

1 TYPICAL RETAINING WALL SECTION
3/16" = 1'-0"

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

LEGEND

- INDICATES NEW CRUSHED AGGREGATE
- INDICATES NEW CONCRETE
- INDICATES EXISTING STRUCTURES
- INDICATES FLOWABLE FILL
- INDICATES EXISTING SOIL
- EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS
- MHHW — INDICATES MEAN HIGHER-HIGH WATER
- MLLW — INDICATES MEAN LOWER-LOW WATER
- MAX TIDE — INDICATES HIGHEST OBSERVED TIDE 10-08-2017

AS-BUILT INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBSERVED AND SUPPLIED BY THE CONTRACTOR. MOTT MACDONALD DOES NOT ATTEST TO THE ACCURACY OF THE CONTRACTOR'S MARK-UPS, BUT SIGNIFICANT FIELD CHANGES SHOWN ON THE DRAWINGS WERE VERIFIED BY MOTT MACDONALD FOR CONFORMANCE WITH THE ORIGINAL DESIGN INTENT.

SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
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Rev	Date	Drawn	Description	Ch'k'd	App'd
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1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Project Number	B/O	Total
397324		

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Drawing Number: MA-06

Title
PIER B SOUTH
NEW SHEET PILE WALL AREAS 2, 3, 4, & 5 TYPICAL SECTION THRU NEW WALL

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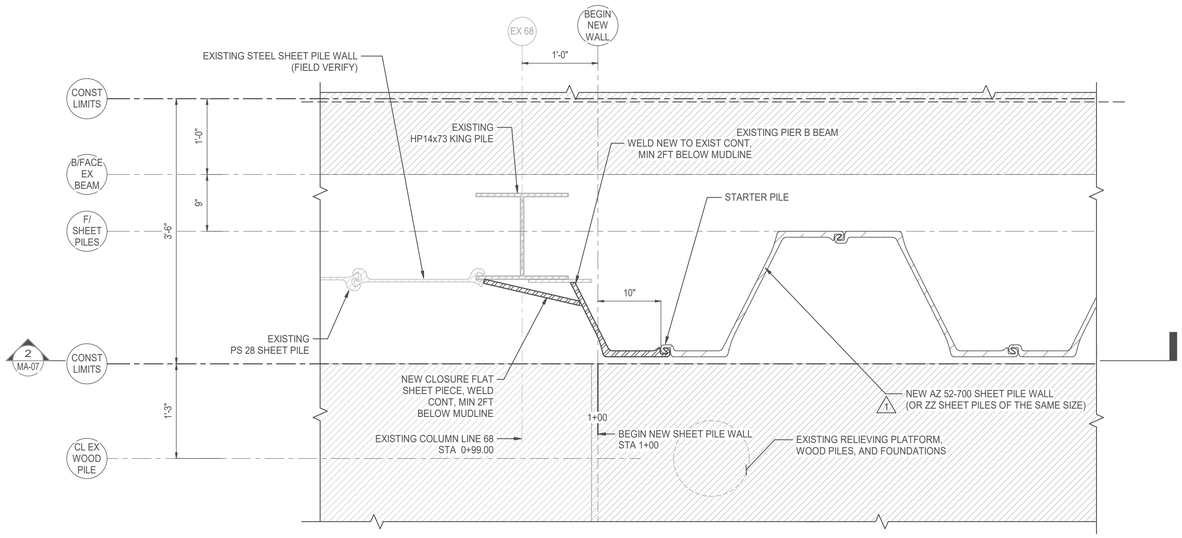
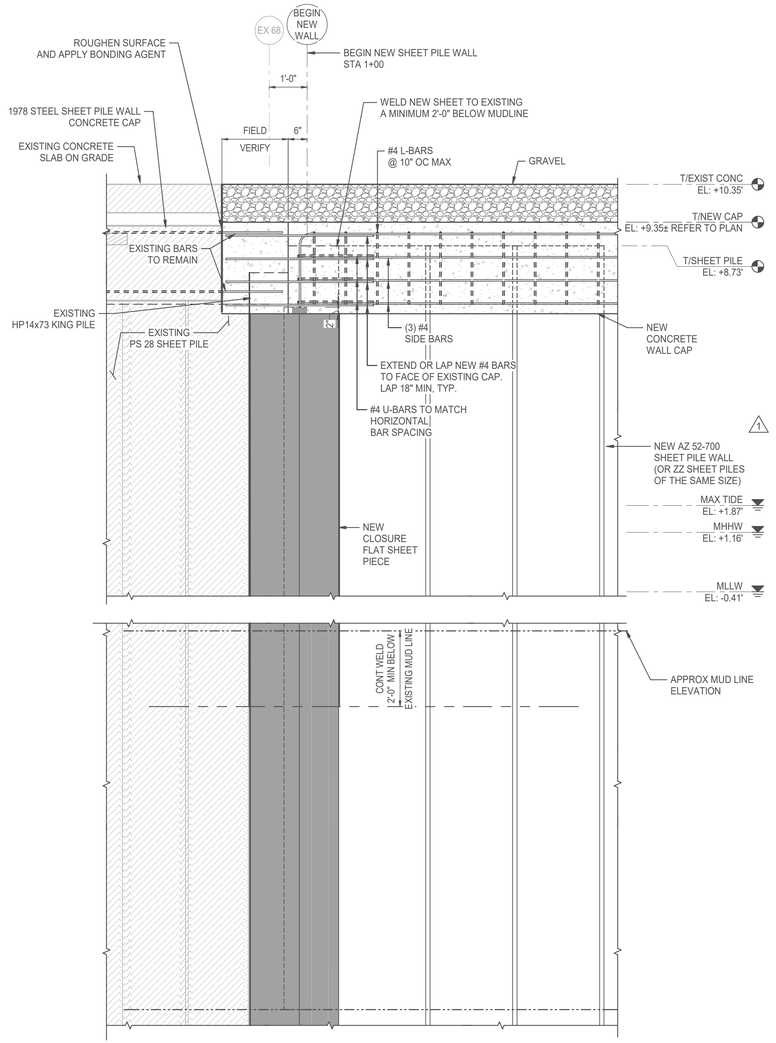


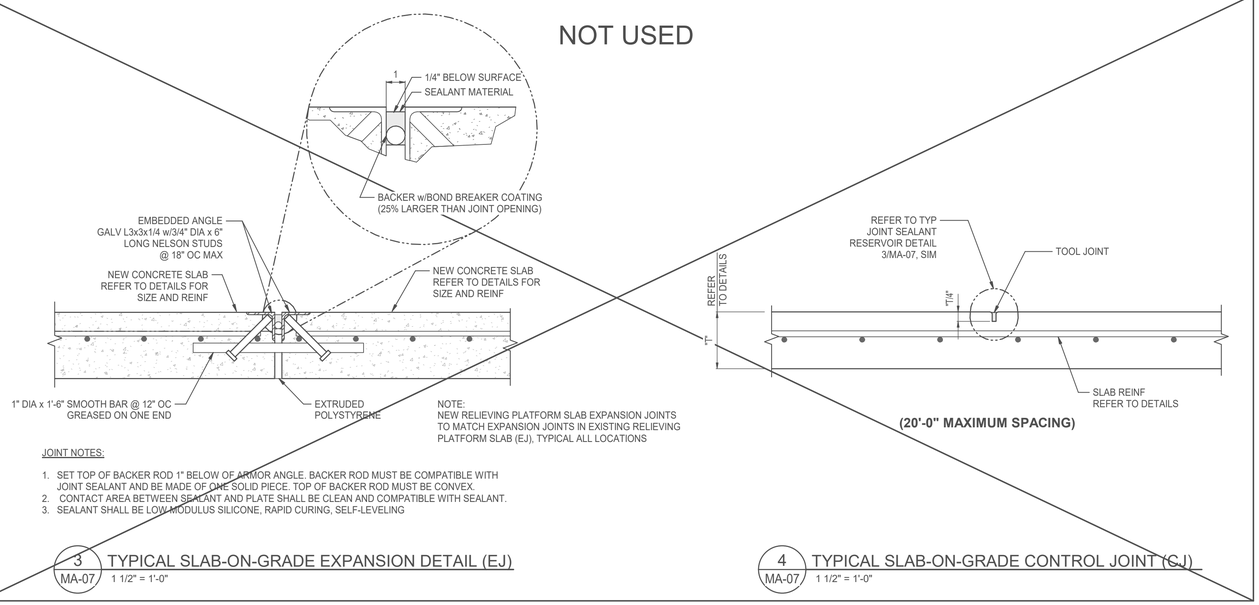
NOTE:
CONTRACTOR SHALL VERIFY EXISTING STEEL WALL CONDITIONS PRIOR TO ORDERING AND SETTING STARTER PILE

1 MA-07 PARTIAL PLAN AT EXISTING BENT 68
1" = 1'-0"



2 MA-07 ELEVATION AT EXISTING BENT 68
1/2" = 1'-0"

NOT USED



JOINT NOTES:

1. SET TOP OF BACKER ROD 1" BELOW OF ARMOR ANGLE. BACKER ROD MUST BE COMPATIBLE WITH JOINT SEALANT AND BE MADE OF ONE SOLID PIECE. TOP OF BACKER ROD MUST BE CONVEX.
2. CONTACT AREA BETWEEN SEALANT AND PLATE SHALL BE CLEAN AND COMPATIBLE WITH SEALANT.
3. SEALANT SHALL BE LOW MODULUS SILICONE, RAPID CURING, SELF-LEVELING

3 MA-07 TYPICAL SLAB-ON-GRADE EXPANSION DETAIL (EJ)
1 1/2" = 1'-0"

4 MA-07 TYPICAL SLAB-ON-GRADE CONTROL JOINT (CJ)
1 1/2" = 1'-0"

LEGEND

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

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LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER
AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

Drawing Number: MA-07

Title
PIER B SOUTH

NEW SHEET PILE WALL DETAILS

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SHEET PILE WALL REPLACEMENT
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397324
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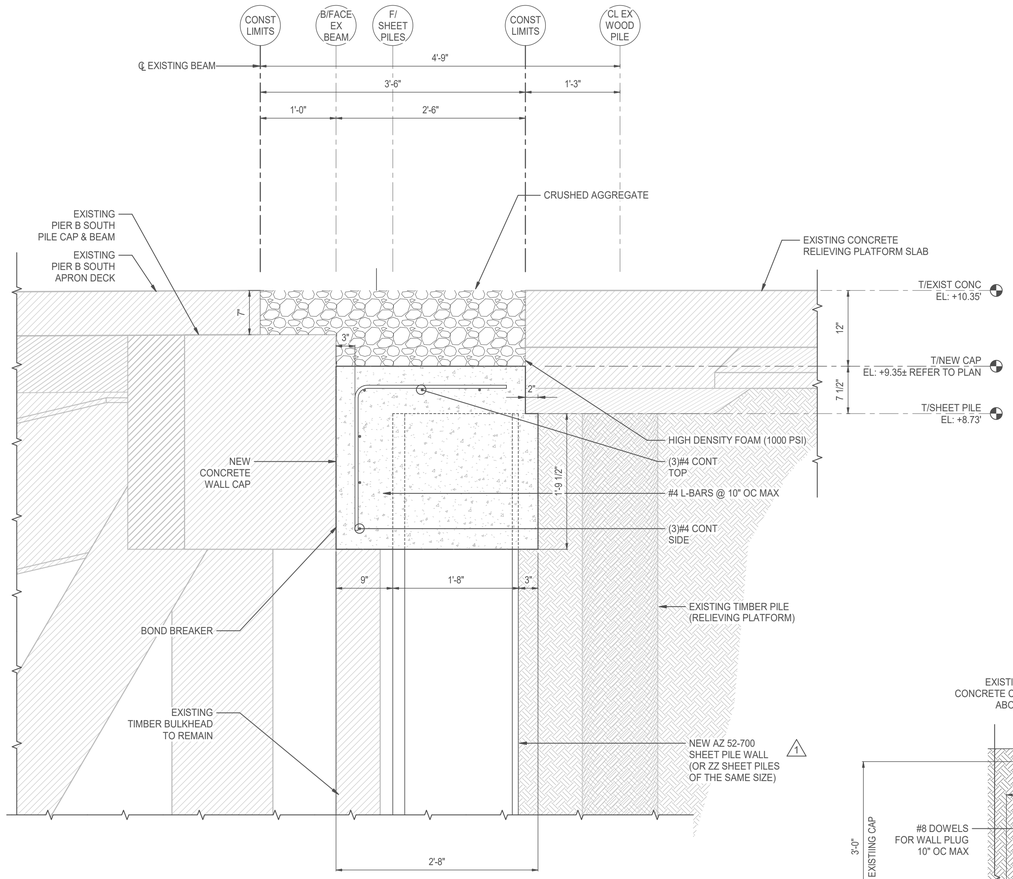
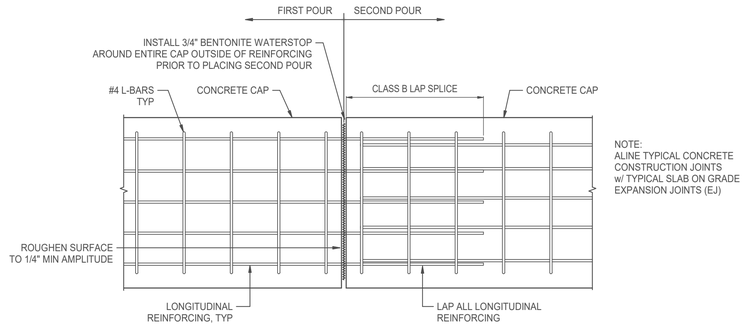
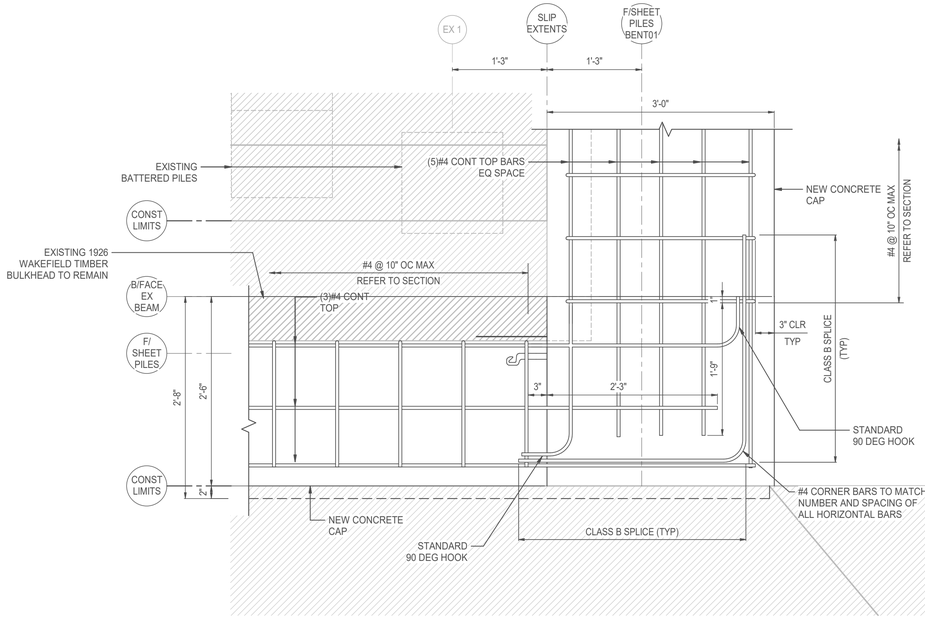


1 MA-08 TYPICAL CAP AND SLAB DETAIL
1" = 1'-0"

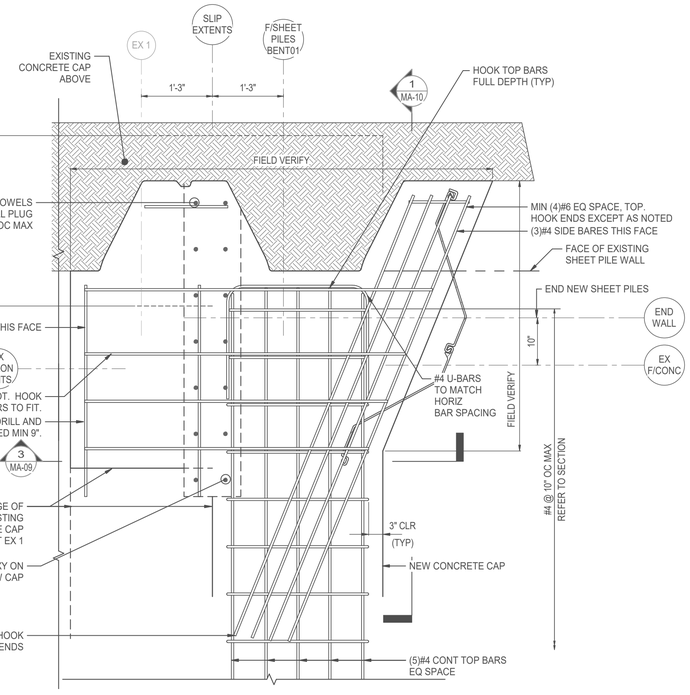


NOTE:
ALINE TYPICAL CONCRETE CONSTRUCTION JOINTS w/ TYPICAL SLAB ON GRADE EXPANSION JOINTS (EJ)

3 MA-08 TYPICAL CONCRETE CAP CONSTRUCTION JOINT
3/4" = 1'-0"



2 MA-08 CONCRETE CAP CORNER PLAN
1" = 1'-0"



4 MA-08 CONCRETE CAP END PLAN
3/4" = 1'-0"

LEGEND

EX # — INDICATES EXISTING BENT REFER TO EXISTING DRAWINGS

INDICATES EXISTING STRUCTURES

INDICATES EXISTING EARTH

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SHEET PILE WALL REPLACEMENT
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397324
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0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY P.E.

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Project Number 397324 | B/O | Total

Drawing Number MA-08

Title
PIER B SOUTH

NEW SHEET PILE WALL DETAILS

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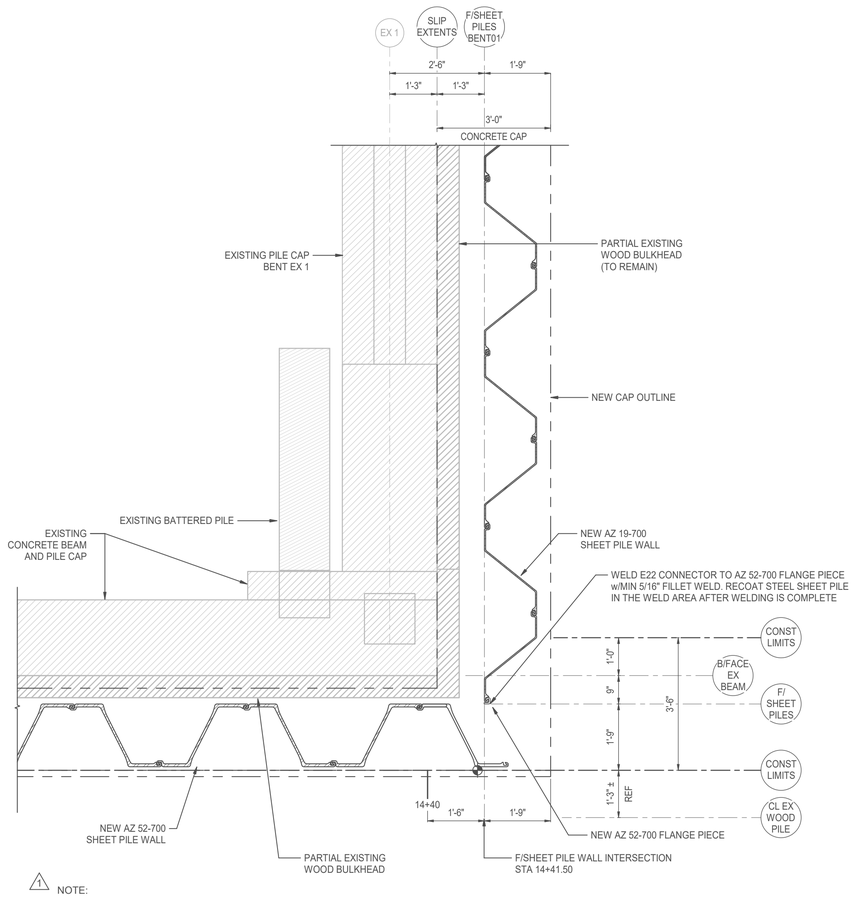
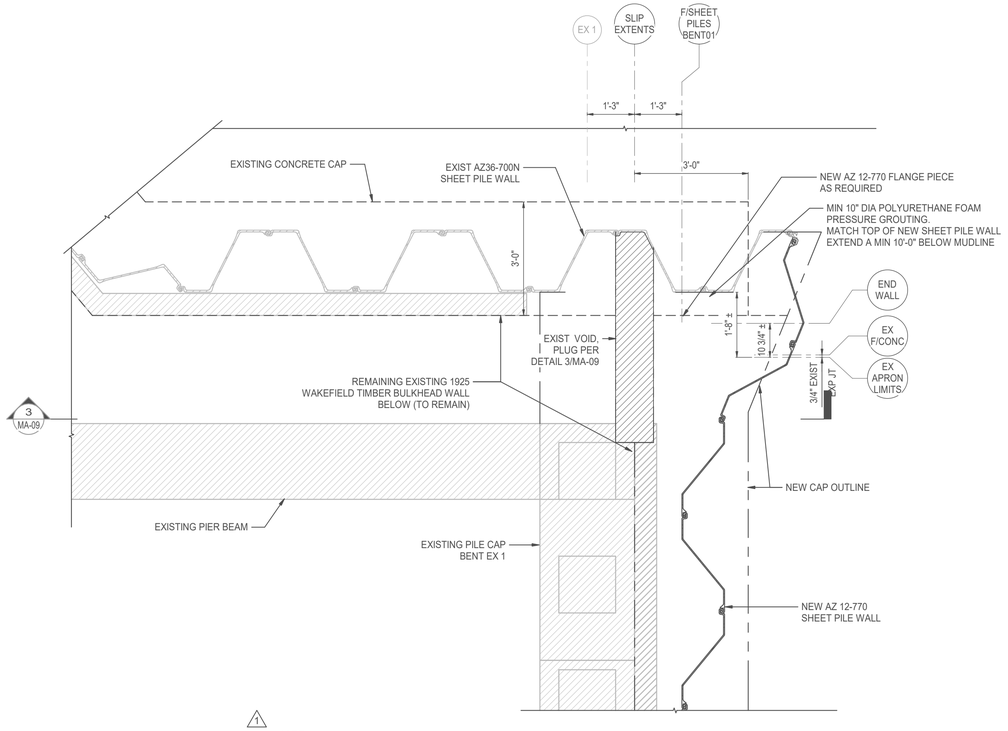


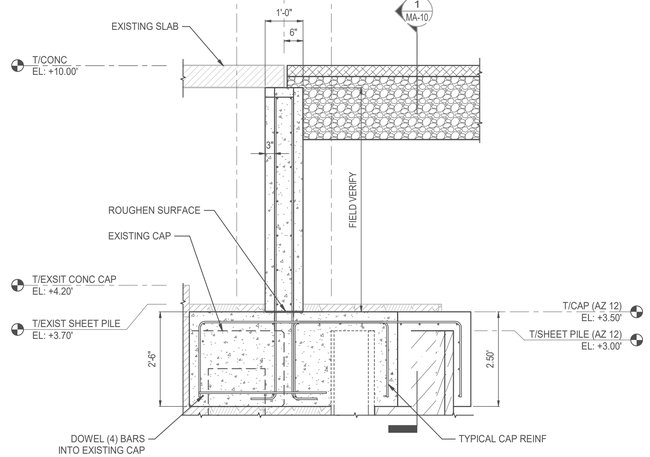
1 NOTE:
ZZ SHEET PILE SECTIONS CAN BE USED IN LIEU OF AZ SHEET PILE SECTIONS OF THE SAME SIZE.

1 MA-09 PARTIAL PLAN - SHEET PILE CORNER DETAIL
1/2" = 1'-0"



1 NOTE:
ZZ SHEET PILE SECTIONS CAN BE USED IN LIEU OF AZ SHEET PILE SECTIONS OF THE SAME SIZE.

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



3 MA-09 WALL PLUG SECTION
1/2" = 1'-0"

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MOBILE, ALABAMA

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0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL LOWRY J. DENTY P.E. ENGINEER

Project Number	B/O	Total
397324		

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Drawing Number: MA-09

Title
PIER B SOUTH

NEW SHEET PILE WALL DETAILS

SHEET PILE WALL REPLACEMENT
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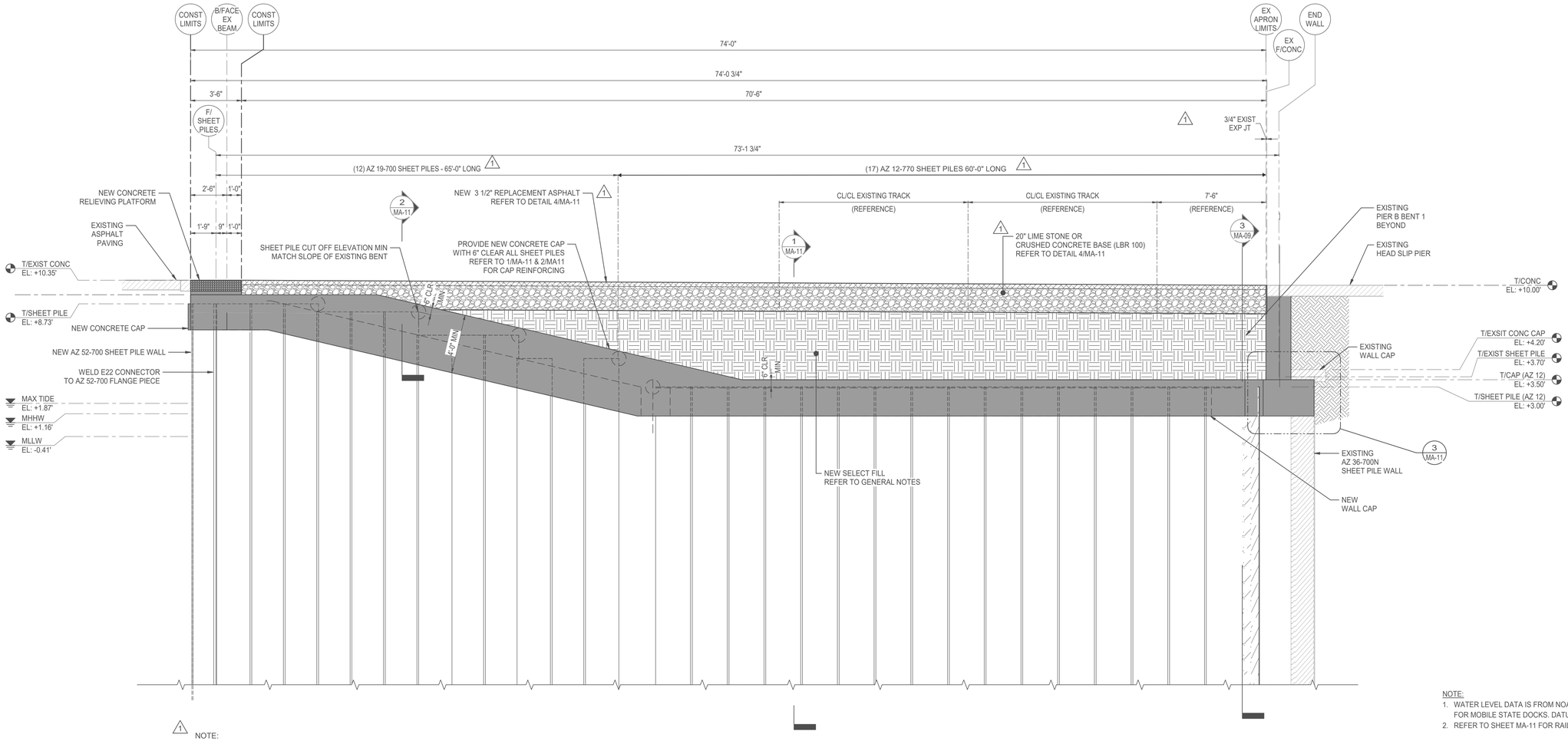

NOTE:
ZZ SHEET PILE SECTIONS CAN BE USED IN LIEU OF AZ SHEET PILE SECTIONS OF THE SAME SIZE.

1 / MA-10 SECTION AT EXISTING BENT 1 LOOKING EAST
1/4" = 1'-0"

NOTE:
1. WATER LEVEL DATA IS FROM NOAA TIDE DATA WEB SITE FOR MOBILE STATE DOCKS. DATUM NAVD 88
2. REFER TO SHEET 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

AS-BUILT INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBSERVED AND SUPPLIED BY THE CONTRACTOR. MOTT MACDONALD DOES NOT ATTEST TO THE ACCURACY OF THE CONTRACTOR'S MARK-UPS, BUT SIGNIFICANT FIELD CHANGES SHOWN ON THE DRAWINGS WERE VERIFIED BY MOTT MACDONALD FOR CONFORMANCE WITH THE ORIGINAL DESIGN INTENT.

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www.mottmac.com/americas

Client
ALABAMA STATE PORT AUTHORITY

MOBILE, ALABAMA

Rev	Date	Drawn	Description	Ch'k'd	App'd
2	07-27-23	KWD	AS-BUILT RECORD DRAWINGS	CEL	LJD
1	05-18-22	KWD	ADD 1 ISSUED FOR CONST	CEL	LJD
0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY P.E.

AS-BUILT RECORD

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

Drawing Number: MA-10

Title
PIER B SOUTH

NEW SHEET PILE WALL
RETURN WALL ELEVATION

SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/31/2023 3:53:19 PM

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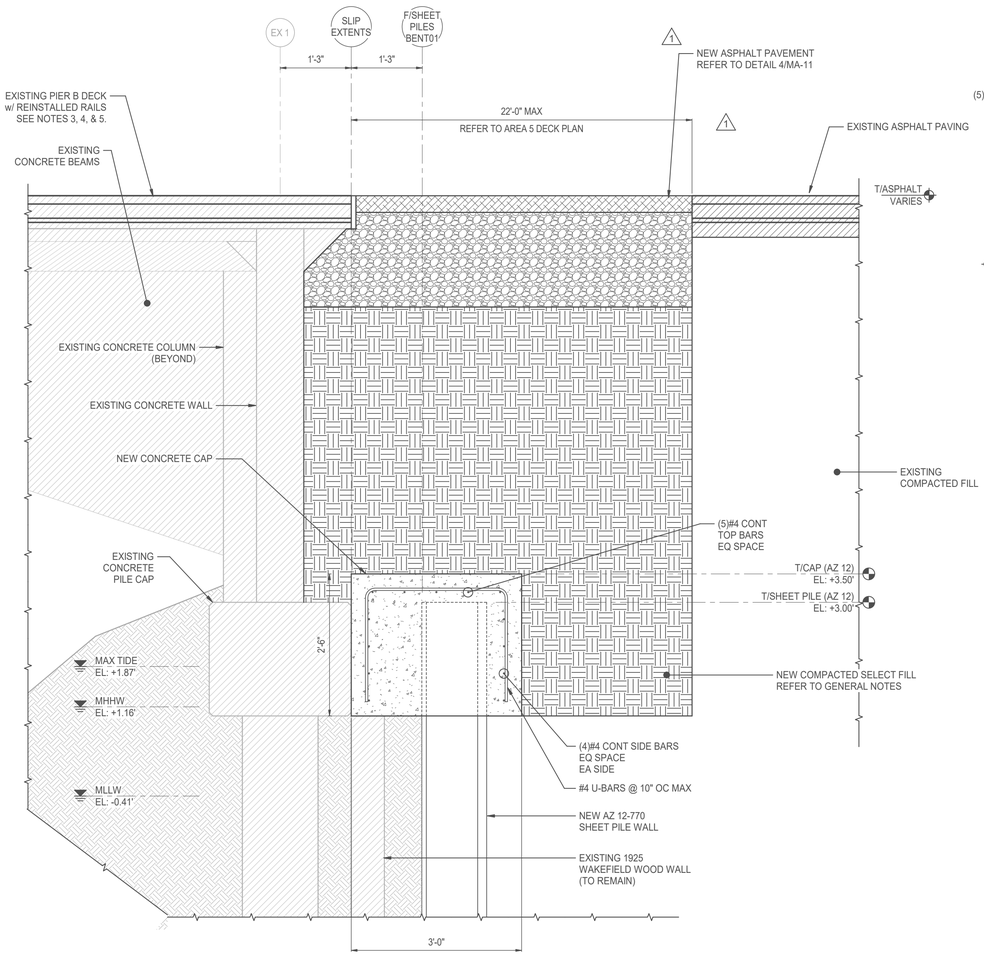
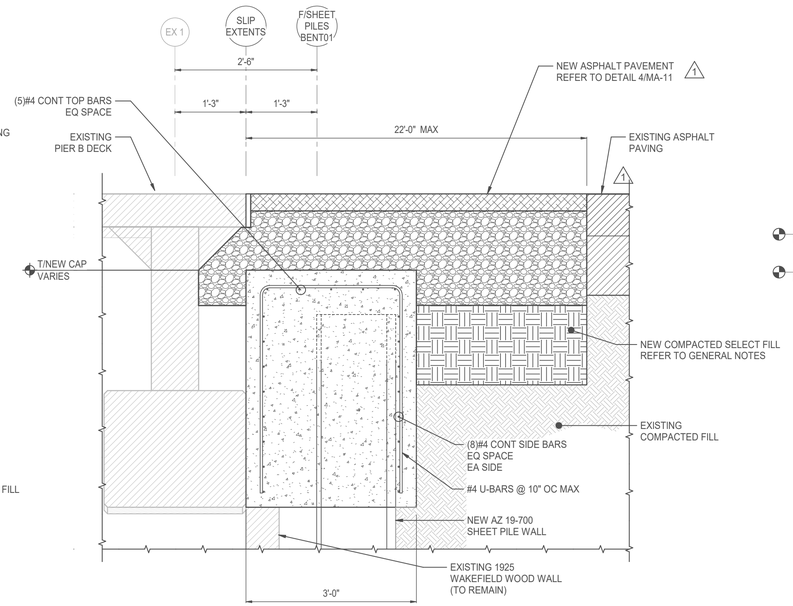
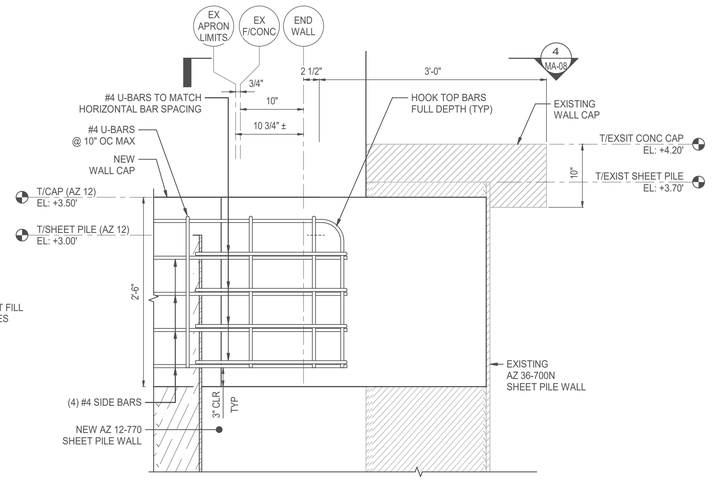


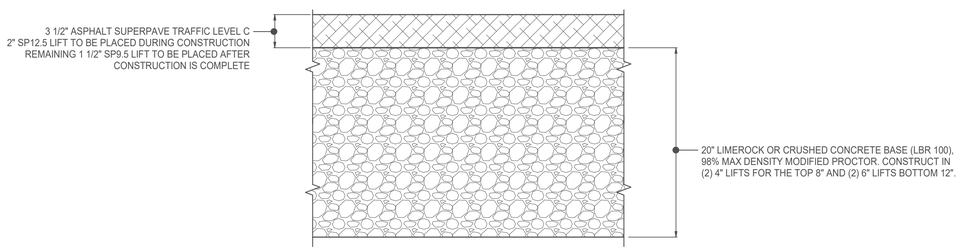
1 MA-11 SHEET PILE RETURN WALL AT EXISTING RAILS
3/4" = 1'-0"



2 MA-11 SHEET PILE RETURN WALL (NO RAILS)
3/4" = 1'-0"



3 MA-11 RETURN WALL NEW CAP END DETAIL
1" = 1'-0"



4 MA-11 HEAVY DUTY ASPHALT SECTION
1 1/2" = 1'-0"

LEGEND

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

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ALABAMA STATE PORT AUTHORITY

MOBILE, ALABAMA

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0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

LOWRY J. DENTY, P.E.
24892 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 24892 PROFESSIONAL ENGINEER LOWRY J. DENTY, P.E.

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

Drawing Number: MA-11

Title
PIER B SOUTH

NEW SHEET PILE WALL
RETURN WALL TYPICAL SECTIONS

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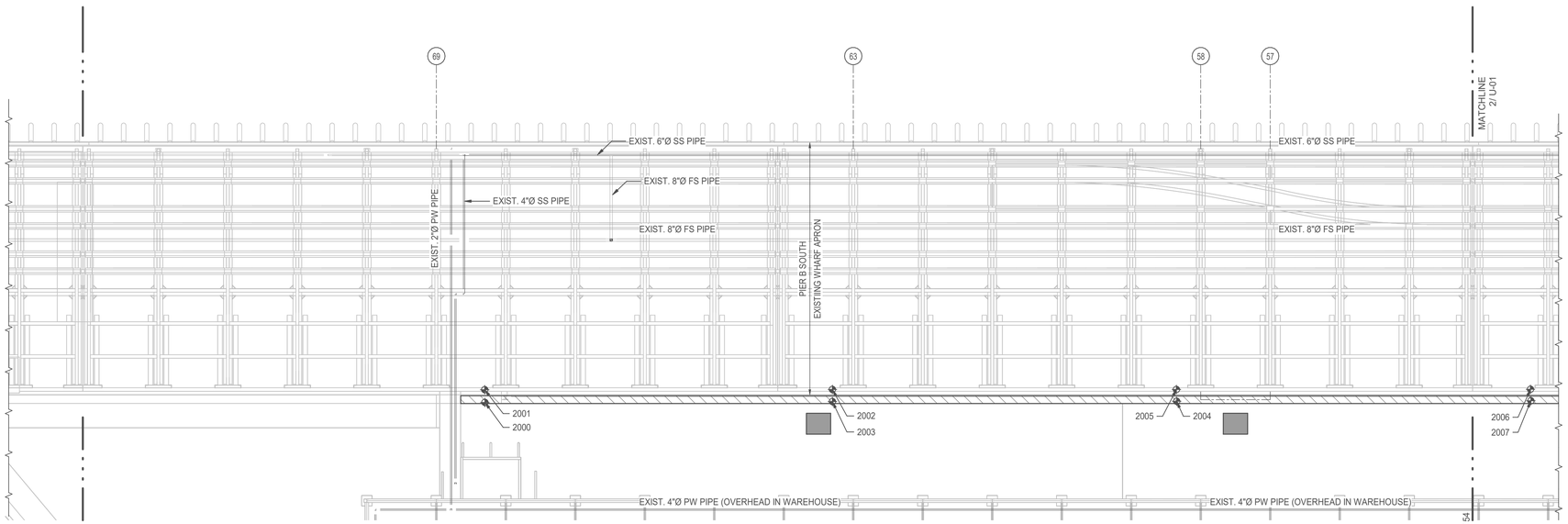
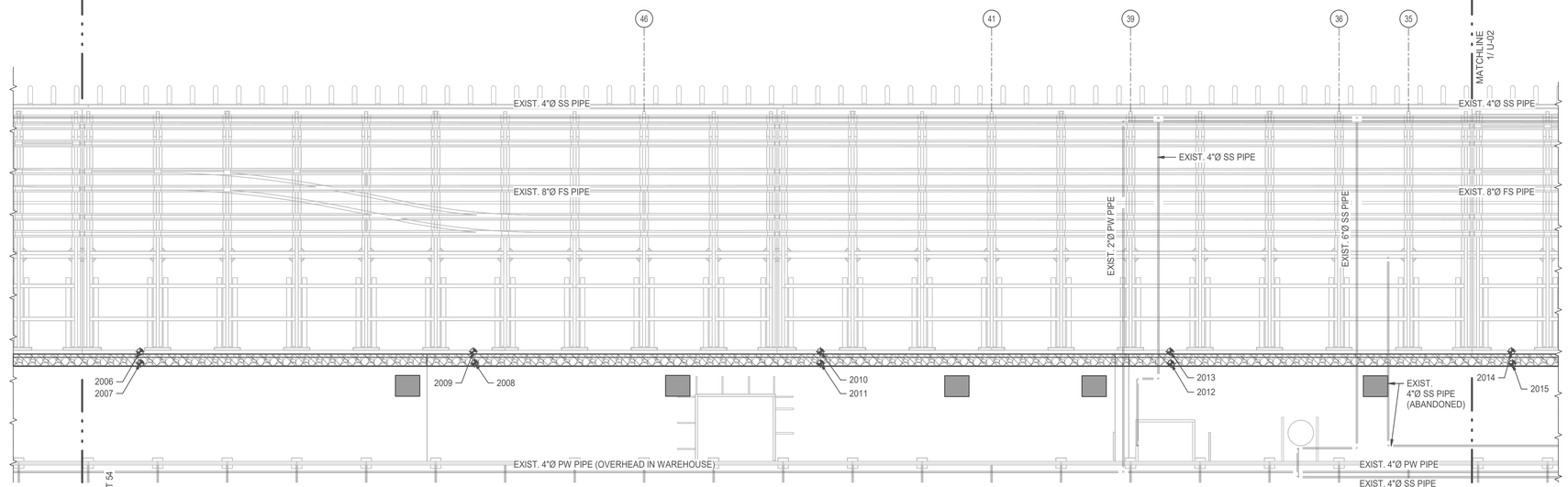
SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/31/2023 3:53:23 PM



1 AREA 2 UTILITY PLAN
1" = 20'-0"

ALL EXISTING UTILITIES SHALL REMAIN EXCEPT WHERE PENETRATING THE NEW SHEET PILE WALL. A 6'-0" SECTION OF EXISTING PIPING SHALL BE DEMOLISHED AND REPLACED AT THE SHEET PILE INTERSECTION. REFER TO 1/U-03 FOR SPLICE DETAILS.



2 AREA 3 UTILITY PLAN
1" = 20'-0"

ALL EXISTING UTILITIES SHALL REMAIN EXCEPT WHERE PENETRATING THE NEW SHEET PILE WALL. A 6'-0" SECTION OF EXISTING PIPING SHALL BE DEMOLISHED AND REPLACED AT THE SHEET PILE INTERSECTION. REFER TO 1/U-03 FOR SPLICE DETAILS.

0 5' 10' 20' 40'

UTILITY NOTES:

1. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILTY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND THEIR ISOLATION / SHUT OFF VALVES PRIOR TO CONSTRUCTION IN THEIR VICINITY.
2. THE CONTRACTOR SHALL LOCATE ALL UTILITIES BY HAND EXCAVATION BEFORE USE OF MACHINERY.
3. THE PROPOSED SEWER AND WATER LINES SHALL BE INSTALLED AT THE SAME ELEVATION AS THE EXISTING WATER LINE.
4. THERE WILL BE NO DIRECT PAYMENT FOR BENDS REQUIRED TO SHIFT THE UTILITY LINES TO AVOID THE SHEET PILE SEAMS.
5. NEW TWO (2) INCH WATER LINES SHALL BE SCHEDULE 80 316 STAINLESS STEEL PIPE WELDED EACH END. BURIED SECTIONS OF TWO (2) INCH WATER LINES SHALL BE WRAPPED IN POLYETHYLENE SHEATH.
6. NEW FOUR (4) INCH WATER LINES SHALL BE NEW CEMENT LINED PRESSURE CLASS 350 DUCTILE IRON PIPE WITH A MEGALUG SERIES 1100 MECHANICAL JOINT RESTRAINTS AND FLANGED ENDS. WORKING PRESSURE SHALL BE A MINIMUM OF 150 PSI. EXPOSED FOUR (4) INCH DUCTILE IRON WATER LINES SHALL BE COATED WITH 1/4 INCH BITUMASTIC COATING ON ALL SURFACES.
7. NEW SIX (6) INCH FIRE WATER LINES SHALL BE NEW CEMENT LINED PRESSURE CLASS 350 DUCTILE IRON PIPE WITH A MEGALUG SERIES 1100 MECHANICAL JOINT RESTRAINT AND FLANGED ENDS. WORKING PRESSURE SHALL BE A MINIMUM OF 150 PSI. EXPOSED SIX (6) INCH DUCTILE IRON WATER LINES SHALL BE COATED WITH 1/4 INCH BITUMASTIC COATING ON ALL SURFACES.
8. ALL SECTIONS OF NEW SEWER LINES TO BE NEW DUCTILE IRON PIPE CONFORMING TO ASTM A746. MINIMUM WALL THICKNESS SHALL BE AS SPECIFIED IN ASTM A746 TABLE 2 FOR NOMINAL WALL THICKNESSES FOR STANDARD PRESSURE CLASSES OF DUCTILE IRON PIPE. EACH END OF THE DUCTILE IRON PIPE SHALL HAVE MEGALUG SERIES 1100 MECHANICAL JOINT RESTRAINTS AND FLANGED ENDS AND SHALL BE COATED WITH A 1/4" BITUMASTIC COATING ON ALL SURFACES.
9. ALL NEW BURIED PIPES SHALL BE WRAPPED IN POLYETHYLENE SHEATH.
10. CONTRACTOR IS TO CONFIRM ALL EXISTING PIPE SIZES AND GRADES IN THE FIELD PRIOR TO ORDERING NEW MATERIAL.
11. DUCTILE IRON PIPING, FITTINGS AND CONNECTIONS SHALL FOLLOW THE AWWA CRITERIA AND SPECIFICATIONS.

    ANS1 A21.50 (AWWA C150)
    ANS1 A21.51 (AWWA C151)
    ANS1 A21.53 (AWWA C153)
    ANS1 A21.40 (AWWA C104)
    ANS1 A21.50 (AWWA C105)
    ANS1 A21.10 (AWWA C110)
    ANS1 A21.15 (AWWA C115)

12. INTERIOR LINING OF ALL DUCTILE IRON PIPE AND FITTINGS FOR RAW SEWAGE SHALL BE FURNISHED WITH AN APPROVED AMINE CURED NOVALAC EPOXY COATING. ACCEPTABLE COATINGS INCLUDE PROTECTO 401 CERAMIC EPOXY, SP 2000 CERAMIC EPOXY, POLY BOND PLUS, PERMOX CTF, OR ENGINEER APPROVED EQUAL.
13. MECHANICAL JOINT MANUFACTURERS' EQUIVALENT TO EBAA IRON, INC.:

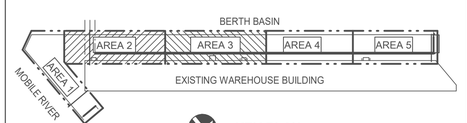
    1. THE FORD METER BOX CO., INC.
    2. STAR PIPE PRODUCTS, INC.
    3. ROMAC INDUSTRIES
    4. JCM INDUSTRIES
    5. SMITH-BLAIR/XYLEM, INC

LEGEND:

PW:	POTABLE WATER
SS:	SANITARY SEWER
FS:	FIRE/SPRINKLER

ABANDONED 72" x 84" SCALE PIT LOCATIONS SHOWN ON PLANS SHALL BE CONSIDERED APPROXIMATE. IF ENCOUNTERED DURING SHEET PILE INSTALLATION, CONTRACTOR SHALL PARTIALLY DEMOLISH TO ALL FOR SHEET INSTALLATION.

NEW SHEET PILE WALL



KEY PLAN

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ALABAMA STATE PORT AUTHORITY

MOBILE, ALABAMA

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0	01-14-22	KWD	ISSUED FOR BID	CEL	LJD

CHAD EDWARD LYNER, P.E.
28305 ALABAMA - CERTIFICATION NUMBER

ALABAMA LICENSED No. 28305 PROFESSIONAL ENGINEER CHAD EDWARD LYNER

AS-BUILT RECORD

Project Number 397324

B/O

Total

Designed	JQ		Eng Check	KP	
Drawn	MC KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Drawing Number U-01

Title
PIER B SOUTH

NEW SHEET PILE RETAINING WALL
AREAS 2 & 3
UTILITY PLANS

SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/28/2023 10:01:11 AM

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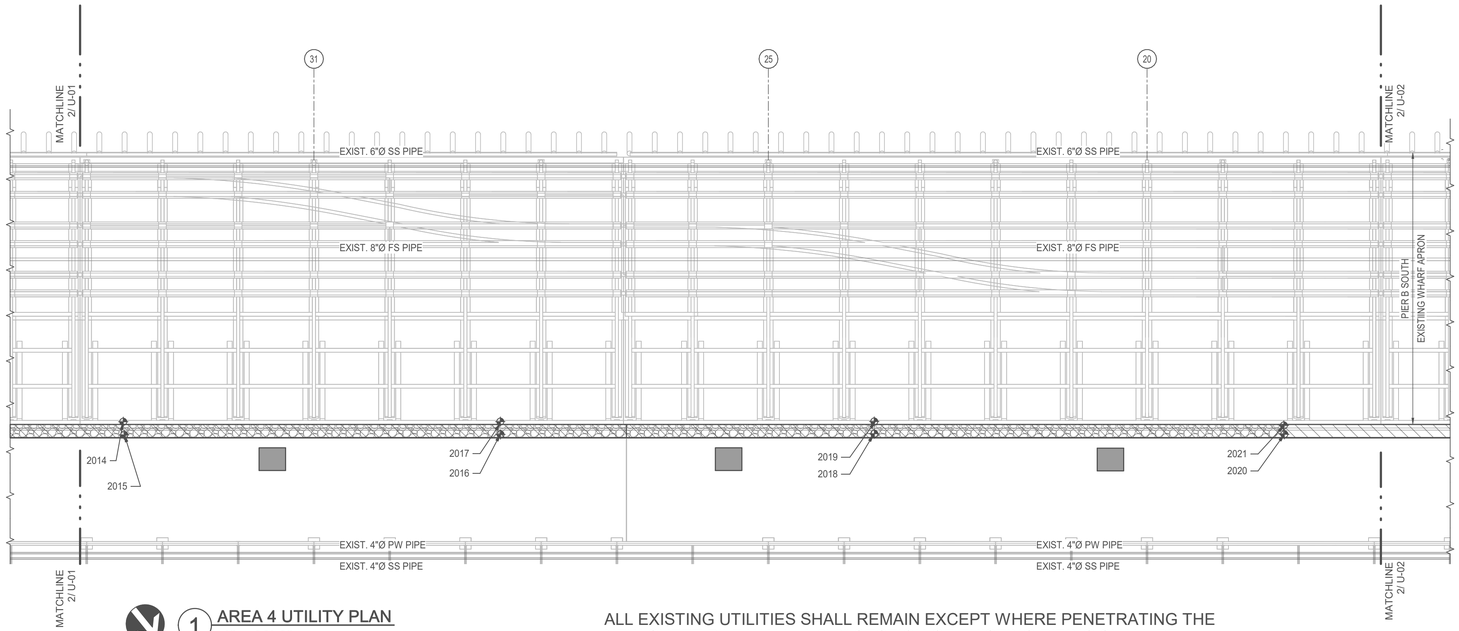
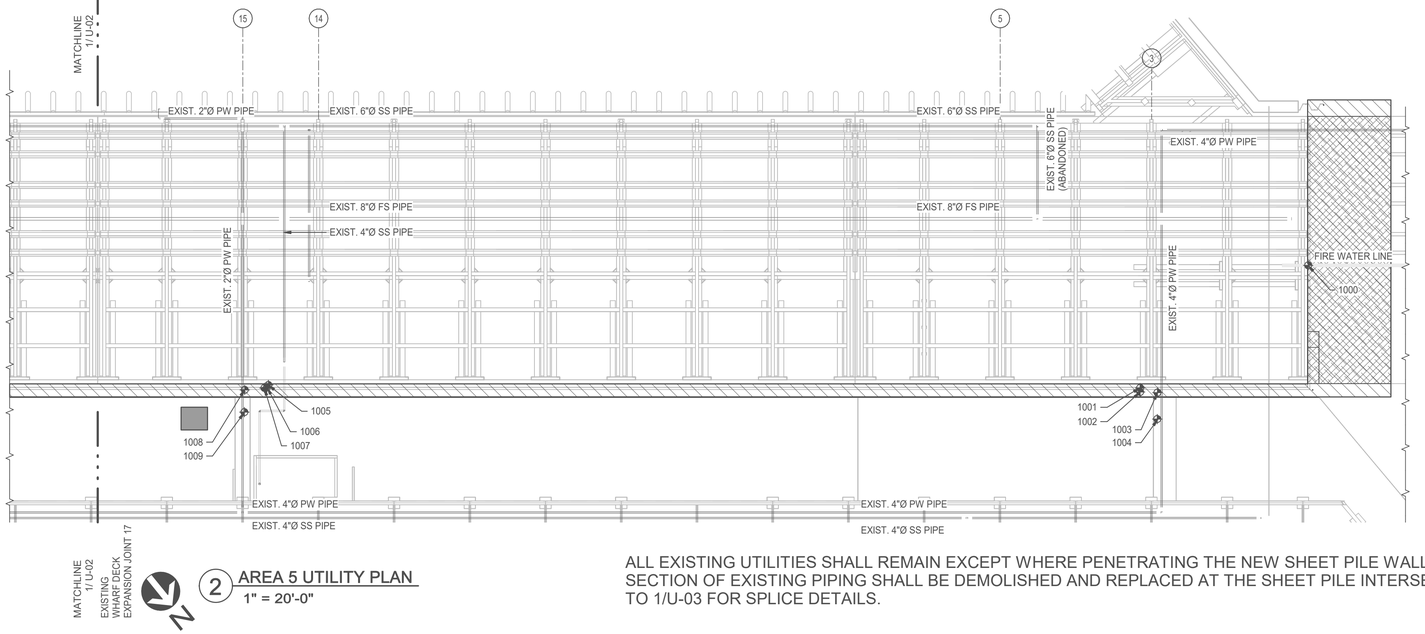


N

1 AREA 4 UTILITY PLAN
1" = 20'-0"

ALL EXISTING UTILITIES SHALL REMAIN EXCEPT WHERE PENETRATING THE NEW SHEET PILE WALL. A 6'-0" SECTION OF EXISTING PIPING SHALL BE DEMOLISHED AND REPLACED AT THE SHEET PILE INTERSECTION. REFER TO 1/U-03 FOR SPLICE DETAILS.



N

2 AREA 5 UTILITY PLAN
1" = 20'-0"

ALL EXISTING UTILITIES SHALL REMAIN EXCEPT WHERE PENETRATING THE NEW SHEET PILE WALL. A 6'-0" SECTION OF EXISTING PIPING SHALL BE DEMOLISHED AND REPLACED AT THE SHEET PILE INTERSECTION. REFER TO 1/U-03 FOR SPLICE DETAILS.

0 5' 10' 20' 40'

UTILITY AS-BUILT ELEVATION TABLE

Benchmark	Northing	Easting	Elevation	Description
1000	258238.58	1797481.93	101.822	FIRE WATER
1001	258244.53	1797536.56	102.985	4" WATER LINE
1002	258245.45	1797537.07	103.003	4" WATER LINE 90
1003	258247.87	1797533.20	105.191	4" WATER LINE 90
1004	258253.90	1797536.71	105.388	4" WATER LINE
1005	258129.03	1797735.91	102.274	2" WATER LINE
1006	258129.76	1797736.33	102.339	2" WATER LINE 90
1007	258129.35	1797737.06	105.182	2" WATER LINE 90
1008	258127.19	1797741.81	103.681	2" WATER LINE 90
1009	258132.24	1797744.83	104.443	2" WATER LINE

NOTES:

1. REFER TO PLANS FOR BENCHMARK LOCATIONS.

LEGEND:

PW: POTABLE WATER

SS: SANITARY SEWER

FS: FIRE/SPRINKLER

ABANDONED 72" x 84" SCALE PIT LOCATIONS SHOWN ON PLANS SHALL BE CONSIDERED APPROXIMATE. IF ENCOUNTERED DURING SHEET PILE INSTALLATION, CONTRACTOR SHALL PARTIALLY DEMOLISH TO ALL FOR SHEET INSTALLATION.

NEW SHEET PILE WALL

KEY PLAN

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MOBILE, ALABAMA

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CHAD EDWARD LYNER, P.E.
28305 ALABAMA - CERTIFICATION NUMBER

AS-BUILT RECORD

ALABAMA LICENSED No. 28305 PROFESSIONAL ENGINEER CHAD EDWARD LYNER

Designed	JQ		Eng Check	KP	
Drawn	MC KWD		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Project Number	B/O	Total
397324		

Scale at ANSI D	Status	Rev	Security
As Shown	IFC	1	STD

Drawing Number: U-02

Title
PIER B SOUTH

NEW SHEET PILE RETAINING WALL
AREAS 4 & 5
UTILITY PLANS

SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/28/2023 10:01:17 AM

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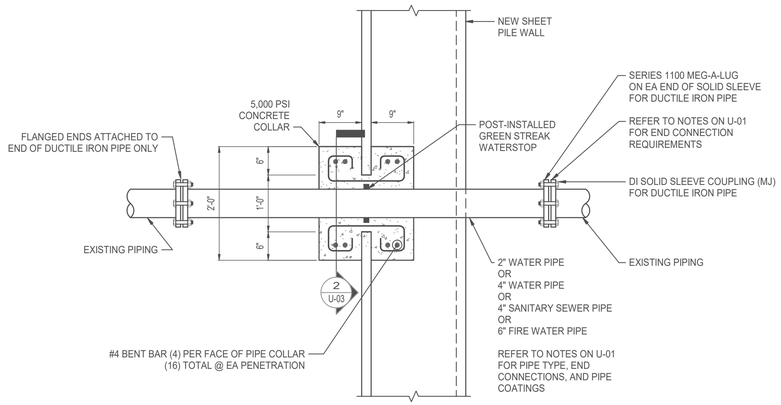
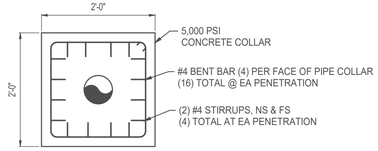


1 U-03 WALL PENETRATION SECTION
3/4" = 1'-0"



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

1

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ALABAMA STATE
PORT AUTHORITY

MOBILE, ALABAMA

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CHAD EDWARD LYNER, P.E.
28305 ALABAMA - CERTIFICATION NUMBER

AS-BUILT
RECORD

ALABAMA LICENSED No. 28305 PROFESSIONAL ENGINEER CHAD EDWARD LYNER

Project Number 397324 | B/O | Total

Designed	JQ		Eng Check	KP	
Drawn	MC		Coordination	LJD	
Dwg Check	CEL		Approved	BP	

Scale at ANSI D: As Shown | Status: IFC | Rev: 1 | Security: STD

Drawing Number: U-03

Title
PIER B SOUTH

NEW SHEET PILE RETAINING WALL
UTILITY DETAILS

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SHEET PILE WALL REPLACEMENT
PIER B SOUTH
397324
7/28/2023 10:01:20 AM

LOUISVILLE & NASHVILLE R. R. South Bound Main Line

DOCKS COMM'S BELT LINE (Future) 26.0'

End of Commission's Track - 70# Rail
Contractor may connect at this point

MOBILE & OHIO R. R.

ZERO

BASE LINE N. 10°51'27" W.

L-1000' L-500' L+500' L+1000' L+1500' L+2000'

D-500' D+500' D+1000' D+1500'

± Bent #1

L+709.76
D+194.30

L+1166.66
D+194.30

654.42'

50°

Material Delivery Track connecting with Docks Comm's Belt Line R.R.
To be removed by State Docks Comm.

± Bent #197

L+1897.69
D+194.30

456.90

229.2'

Curb Angle at edge of wharf

Curb Angle at edge of wharf

ONE MILE CREEK
-TO BE FILLED-

L. & N. R. R. To be removed

PIER Nº 1

SLIP Nº 1

PIER Nº 2B

SLIP Nº 2

CONCRETE WHARF 1600.0'

CONCRETE WHARF 1600.0'

350.0'

560.0'

760.0'

L. & N. R. R. To be removed

VALETTA
R.R. FLAG STA.

M. & O. R. R. — PIER Nº 8

350.00

U.S. EXTERIOR HARBOR LINE - S.5°09'18"E

MOBILE RIVER

± Bent #73

105.44'

L+138.16
D+1420.0'

L+869.19
D+1420.0'

± Bent #117

23.91'

892.9

Revised - Jan. 9, 1926

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF
LOCATION MAP PIER 2

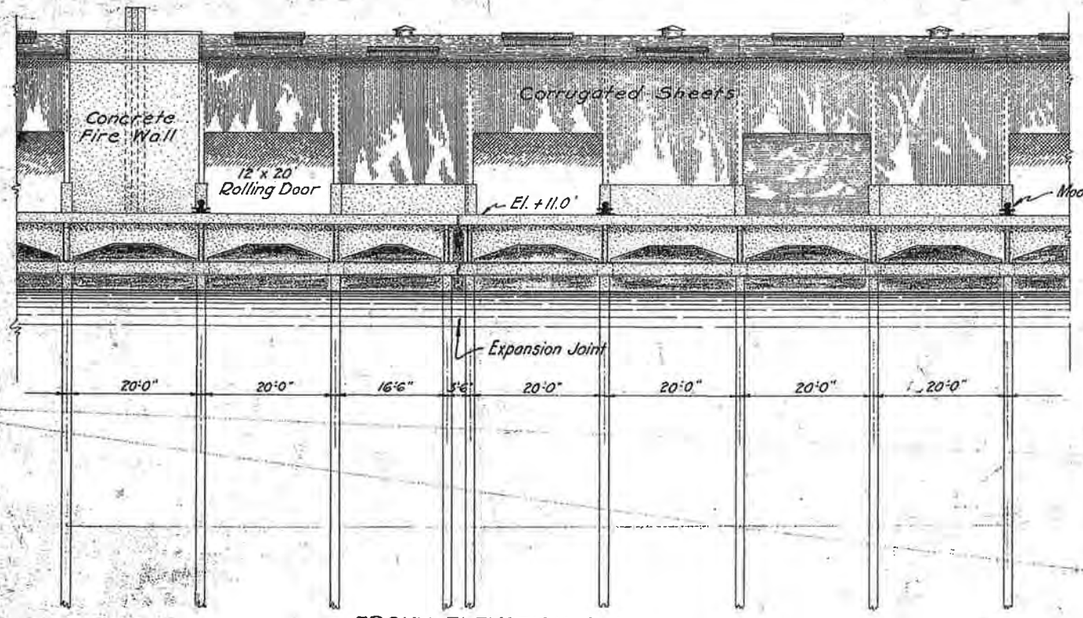
SCALE: 1" = 100'
DATE: Oct. 15, 1925
RECOMMENDED: Arthur C. Davis
CHIEF ENGINEER
APPROVED: [signature]
CHAIRMAN

DRAWN BY
TRACED BY
CHECKED BY

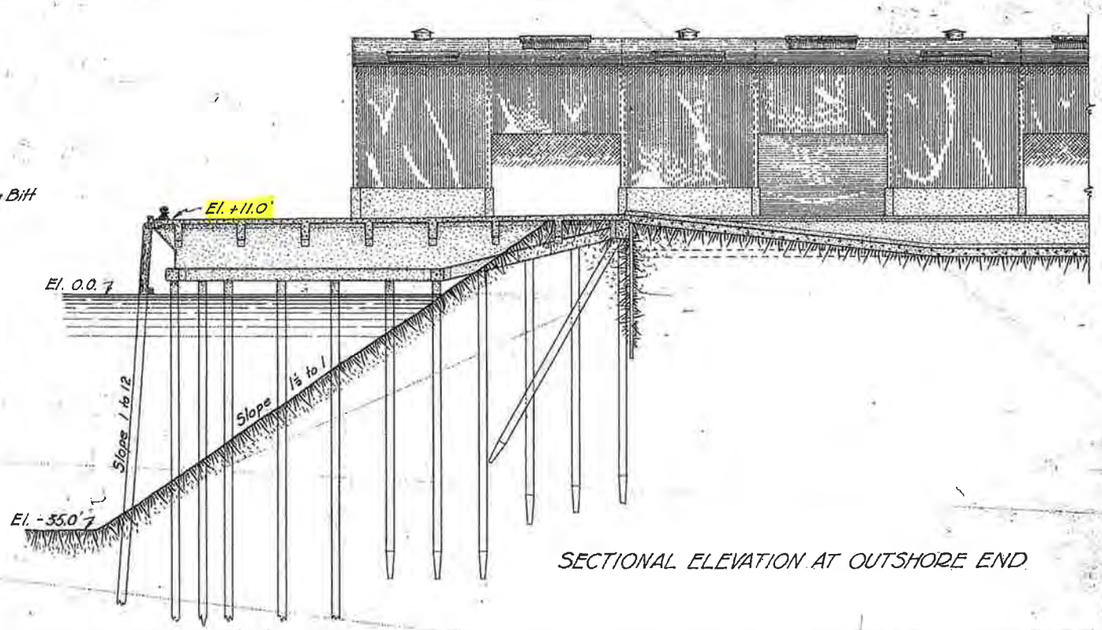
B-4-17

101

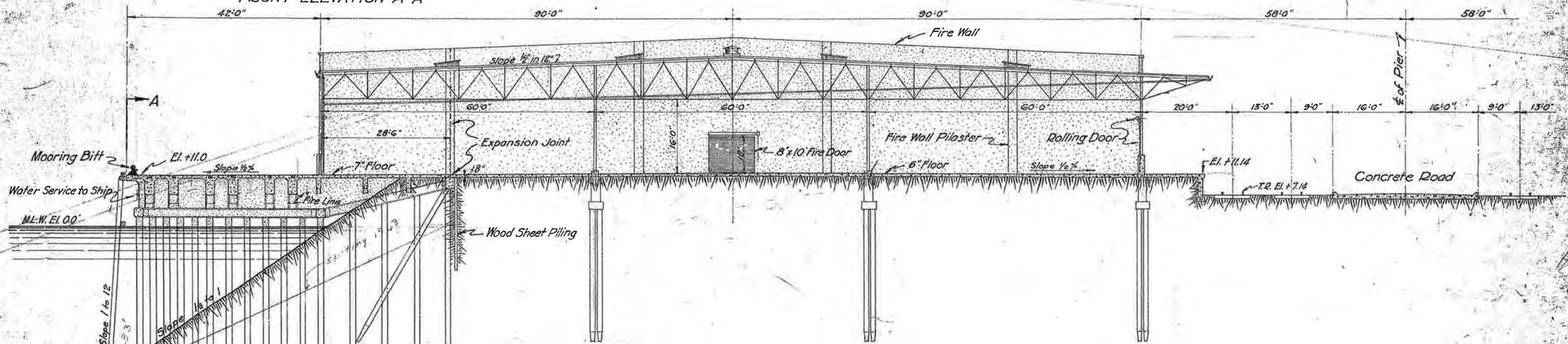
4119



FRONT ELEVATION A-A



SECTIONAL ELEVATION AT OUTSHORE END



TYPICAL CROSS-SECTION OF ONE HALF OF PIER

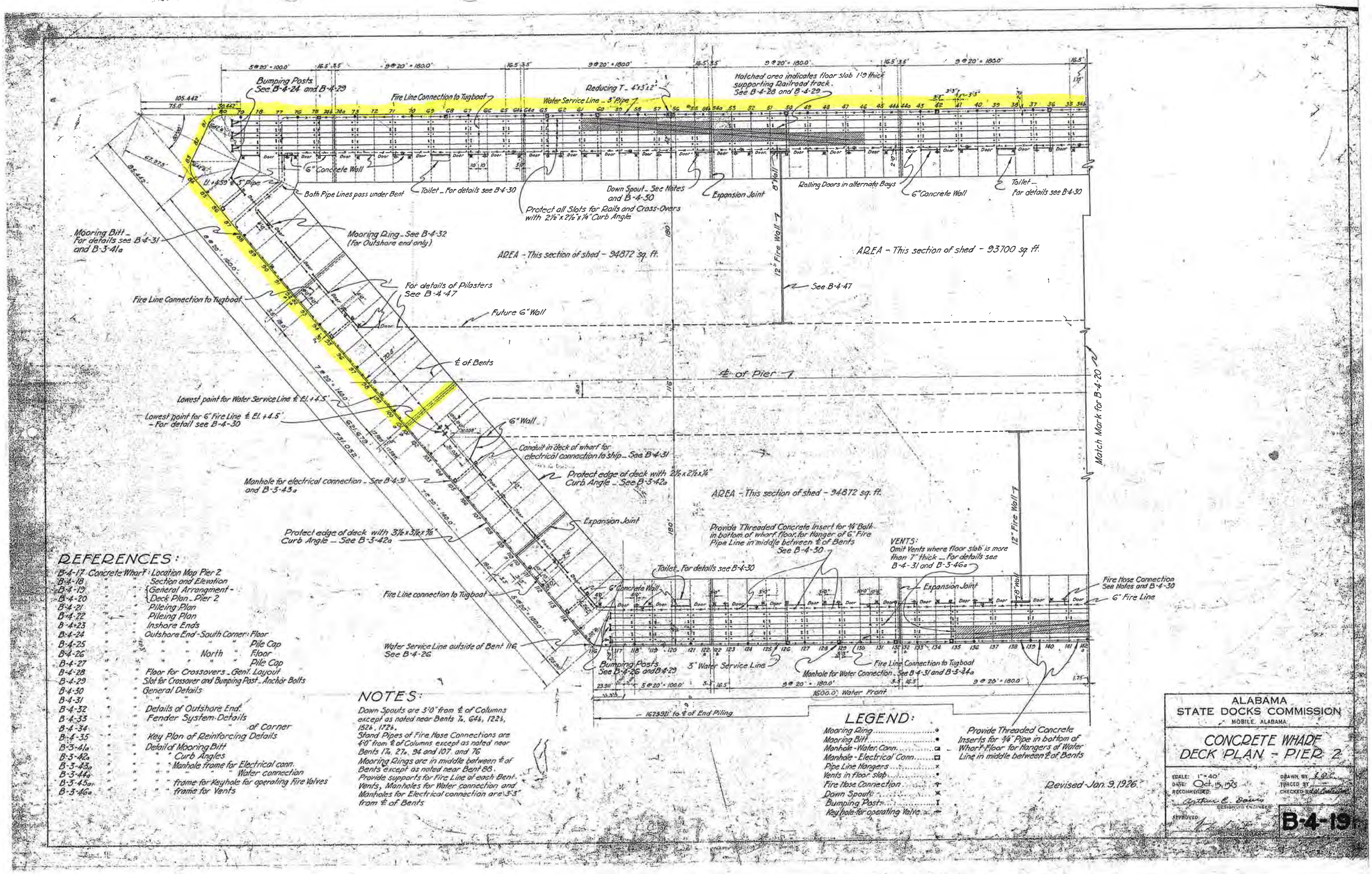
Revised-Jan. 9, 1926

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
PIER No. 2
SECTIONS AND ELEVATIONS

SCALE: 1" = 10'-0"
DATE: Oct. 5, 25
RECOMMENDED: Arthur E. Davis
DESIGNING ENGINEER
APPROVED:
CHAIRMAN
DRAWN BY E.W.C.
TRACED BY
CHECKED BY

B-418



REFERENCES:

B-4-17	Concrete Wharf - Location Map Pier 2	
B-4-18	" " Section and Elevation	
B-4-19	" " General Arrangment -	
B-4-20	" " Deck Plan - Pier 2	
B-4-21	" " Pileing Plan	
B-4-22	" " Pileing Plan	
B-4-23	" " Inshore End's	
B-4-24	" " Outshore End - South Corner: Floor	
B-4-25	" " " " " " Pile Cap	
B-4-26	" " " " North " Floor	
B-4-27	" " " " " " Pile Cap	
B-4-28	" " Floor for Crossovers - Genl. Layout	
B-4-29	" " Slot for Crossover and Bumping Post - Anchor Bolts	
B-4-30	" " General Details	
B-4-31	" " "	
B-4-32	" " Details of Outshore End	
B-4-33	" " Fender System Details	
B-4-34	" " " " " of Corner	
B-4-35	" " Key Plan of Reinforcing Details	
B-3-41a	" " Detail of Mooring Bitt	
B-3-42a	" " " Curb Angles	
B-3-43a	" " " Manhole frame for Electrical conn.	
B-3-44a	" " " " " " Water connection	
B-3-45a	" " " frame for Keyhole for operating Fire Valves	
B-3-46a	" " " frame for Vents	

NOTES:

Down Spouts are 3'-0" from ℄ of Columns except as noted near Bents 7a, 64a, 122a, 152a, 172a.
Stand Pipes of Fire Hose Connections are 4'-0" from ℄ of Columns except as noted near Bents 17a, 27a, 94 and 107, and 76
Mooring Rings are in middle between ℄ of Bents except as noted near Bent 88.
Provide supports for Fire Line at each Bent.
Vents, Manholes for Water connection and Manholes for Electrical connection are 3'-3" from ℄ of Bents

LEGEND:

Mooring Ring
Mooring Bitt
Manhole - Water Conn.
Manhole - Electrical Conn.
Pipe Line Hangers
Vents in floor slab
Fire Hose Connection
Down Spouts
Bumping Posts
Keyhole for operating Valve

Provide Threaded Concrete Inserts for ¾" Pipe in bottom of Wharf Floor for Hangers of Water Line in middle between ℄ of Bents

Revised Jan. 9, 1926.

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF
DECK PLAN - PIER 2

SCALE: 1" = 40'
DATE: Oct. 15, 1925
RECOMMENDED: Arthur E. Davis, DESIGNING ENGINEER
APPROVED:
DRAWN BY: K.P.C.
TRACED BY:
CHECKED BY: A.E.D.

B-4-19

Manhole for Water Connection _ See B-4-31 and B-3-44a

Manhole for Electrical Connection See B-4-31 B-3-43a

Mooring Bitt _ See B-4-31 and B-3-41a

Water Service Line 4" Pipe: El. +8.5 ℄ pipe

6" Fire Line: El. +6.72 ℄ of pipe

Future Front Wall

Down Spout See Notes and B-4-30

Mooring Ring See B-4-30

Protect edges of deck at expansion joints with 2½ x 2½ x ¼" Curb Angles _ See B-3-42a

Toilet _ For Details See B-4-30

Conduit in deck of wharf for Electrical Connection to Ship See B-4-31

6" Concrete Wall

12" Fire Wall _ See B-4-47

AREA: This section of shed - 91210 sq. ft.

For Notes, References and Legend see B-4-19

℄ of Pier

6" Fire Line _ Provide flanges approx. every 500 ft.

El. +6.72 ℄ of pipe

Water Mark for B-4-19

AREA - This section of shed - 93700 sq. ft.

AREA - This section of shed - 91210 sq. ft.

Future Front Wall

Hatched area indicates floor slab 1:3 9" thick supporting railroad track _ See B-4-28-29

For detail of Pilasters See B-4-47

Mooring Ring For details see B-4-30

Fire Hose Connection See Notes and B-4-30

Conduit in deck of wharf for electrical connection to ship See B-4-31

Down Spout _ See Notes See B-4-30

Toilet _ For details see B-4-30

Provide Threaded Concrete Insert in bottom of wharf floor for hanger of 6" Fire Pipe Line in middle between ℄ of Bents _ See B-4-30

6" Concrete Wall

6" Fire Line

6" Fire Line _ El. +6.72 ℄ of pipe Provide flanges approx. every 500 ft.

Water Service Line El. +8.5 ℄ of pipe

Expansion Joint

4" x 3" x 2½" Reducing T

Manhole for electrical connection See B-4-31 and B-3-43a

Mooring Bitt See B-4-31 and B-3-41a

Expansion Joint

Manhole for Water Connection to Ship _ See B-4-31 and B-3-44a

1600' of Water Front

1623.91' to ℄ of End Piling

Pipe Line under deck of wharf for Water connection to ship

Protect all slots for Rails and Cross-Overs with 2½" x 2½" x ¼" Curb Angles _ See B-3-42a

Pier Width = 562.0'

Revised Jan. 9, 1926

DECK PLAN

General Arrangement

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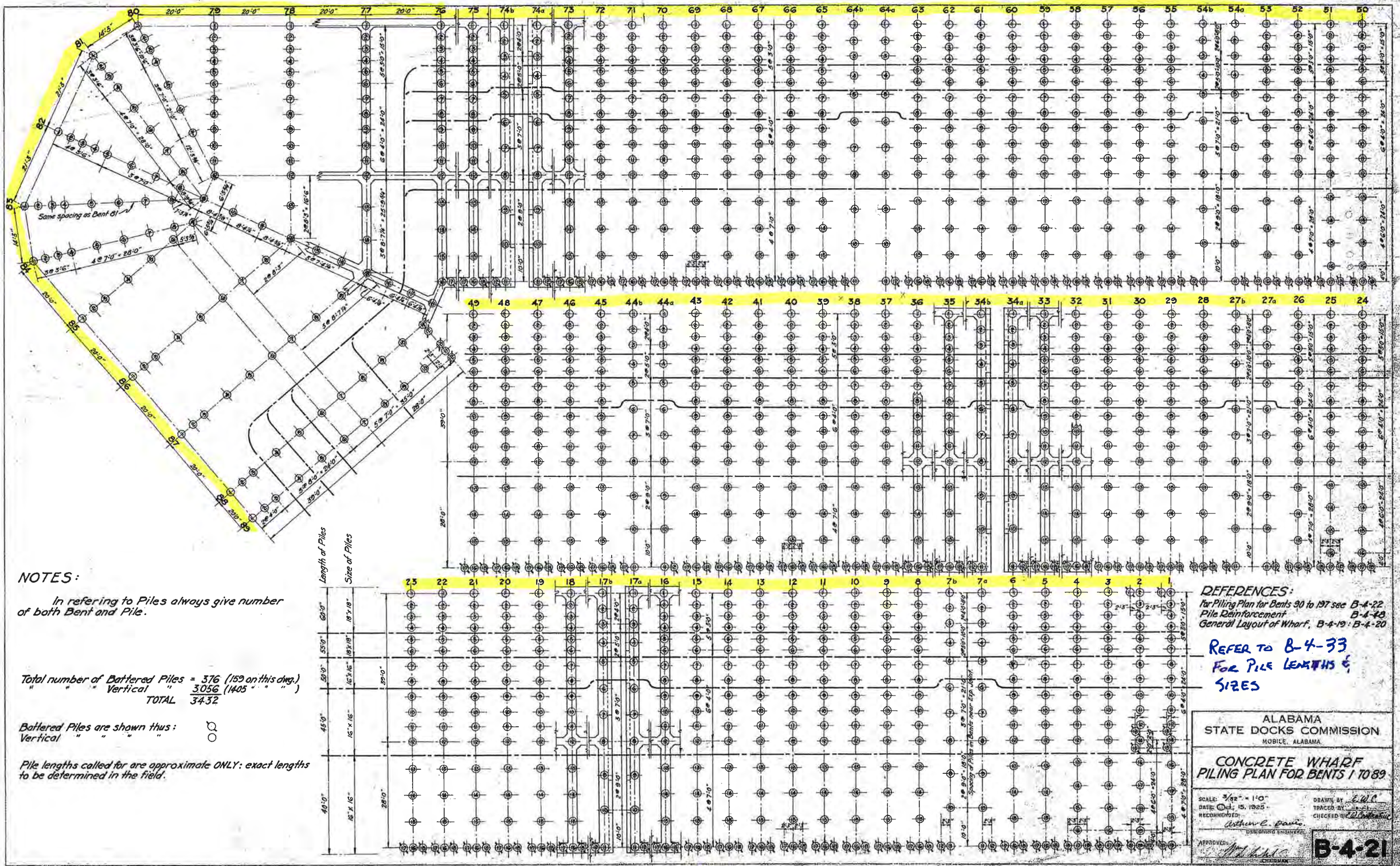
MOBILE, ALABAMA.

CONCRETE WHARF
DECK PLAN _ PIER 2

SCALE: 1" = 40'
DATE: Oct. 15, 1925
RECOMMENDED: Arthur E. Davis, CONSULTING ENGINEER
APPROVED: _____ CHAIRMAN
DRAWN BY: E.W.C.
TRACED BY: _____
CHECKED BY: H.L. Eastman

B-4-20



NOTES:

In refering to Piles always give number of both Bent and Pile.

Total number of Battered Piles = 376 (159 on this dwg.)
" " " Vertical " 3056 (1405 " " ")
TOTAL 3432

Battered Piles are shown thus: ⌀
Vertical " " " " ○

Pile lengths called for are approximate ONLY: exact lengths to be determined in the field.

REFERENCES:
For Piling Plan for Bents 90 to 197 see B-4-22
Pile Reinforcement B-4-18
General Layout of Wharf, B-4-19 : B-4-20

REFER TO B-4-33 FOR PILE LENGTHS & SIZES

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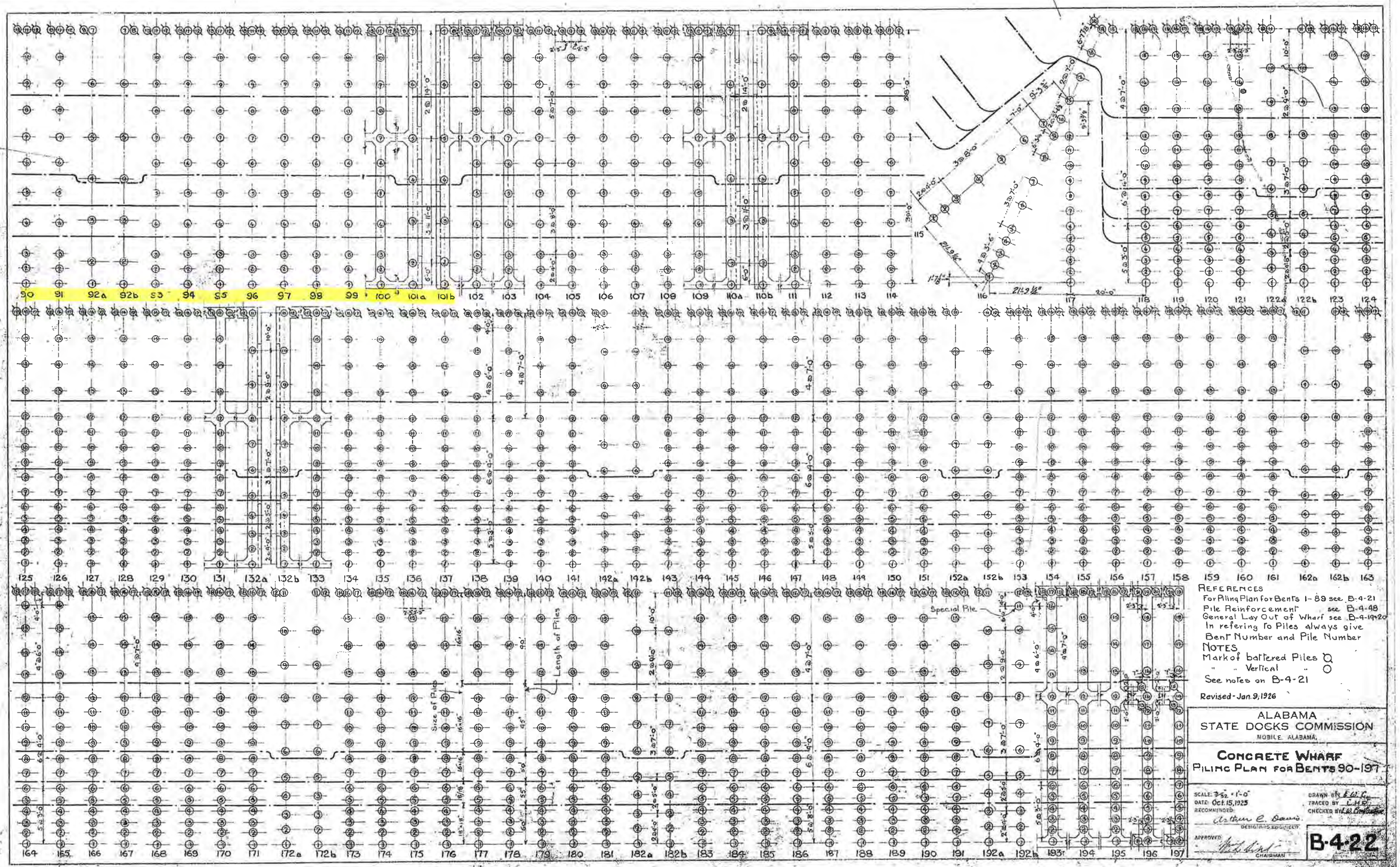
CONCRETE WHARF
PILING PLAN FOR BENTS 1 TO 89

SCALE: 3/32" = 1'-0" DRAWN BY E.W.C.
DATE: Oct. 15, 1925 TRACED BY
RECOMMENDED: Arthur C. Davis CHECKED BY W.C.Hasbrouck
DESIGNING ENGINEER
APPROVED: CHAIRMAN

B-4-21

WATER



REFERENCES
For Piling Plan for Bents 1-89 see B-4-21
Pile Reinforcement see B-4-48
General Lay Out of Wharf see B-4-1920
In refering to Piles always give
Bent Number and Pile Number

NOTES
Mark of battered Piles Q
" " Vertical " O
See notes on B-4-21

Revised-Jan. 9, 1926

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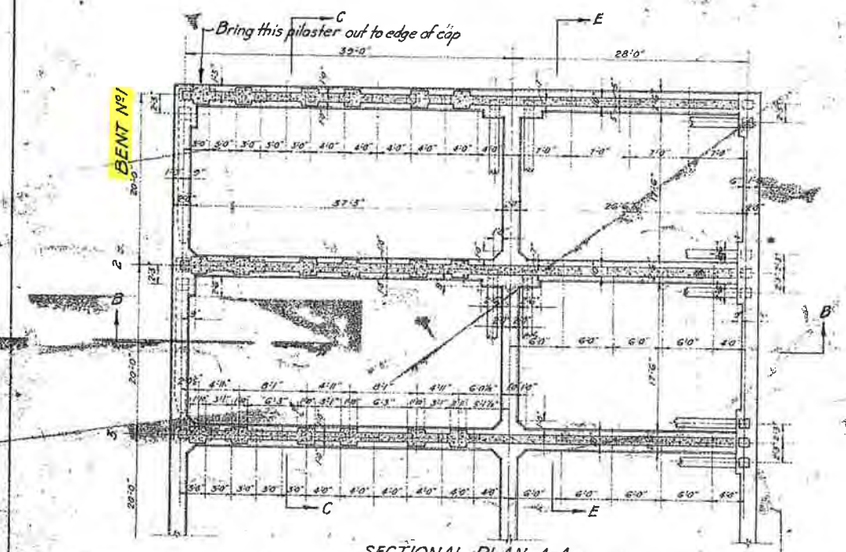
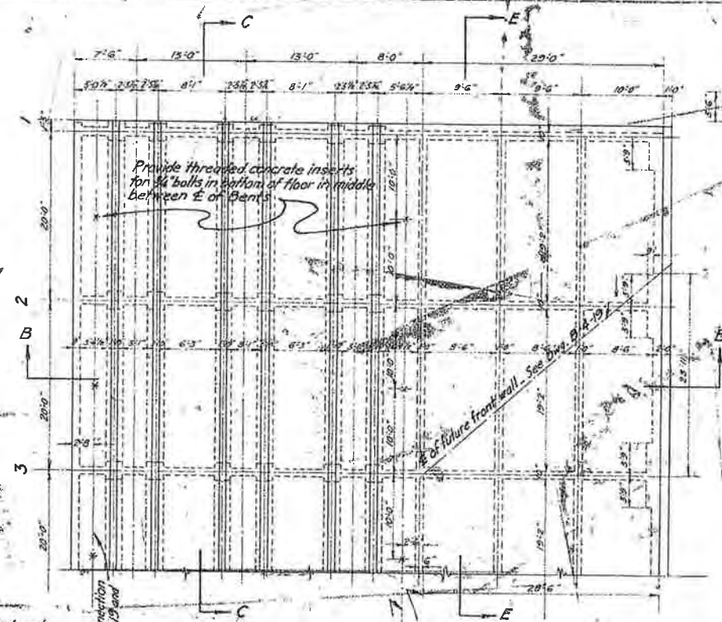
MOBILE, ALABAMA.

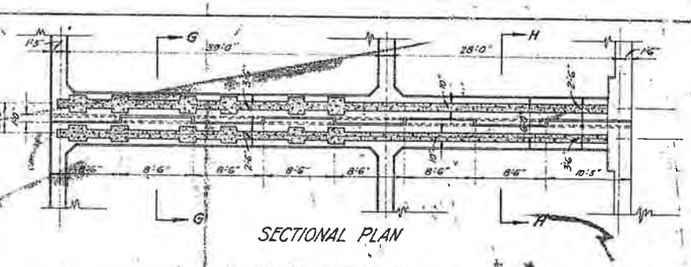
CONCRETE WHARF
PILING PLAN FOR BENTS 90-197

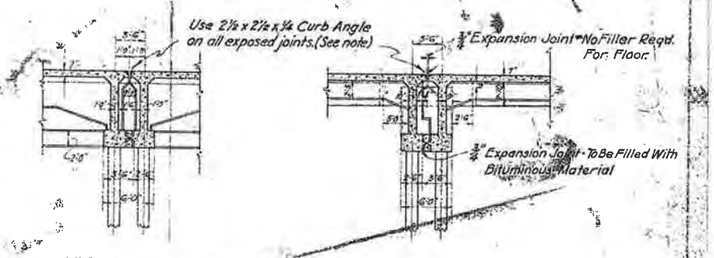
SCALE: 3/32" = 1'-0"
DATE: Oct. 15, 1925
RECOMMENDED: Arthur C. Davis, DESIGNING ENGINEER
APPROVED: CHAIRMAN
DRAWN BY E.W.C.
TRACED BY L.H.P.
CHECKED BY E.W.C.

B-4-22

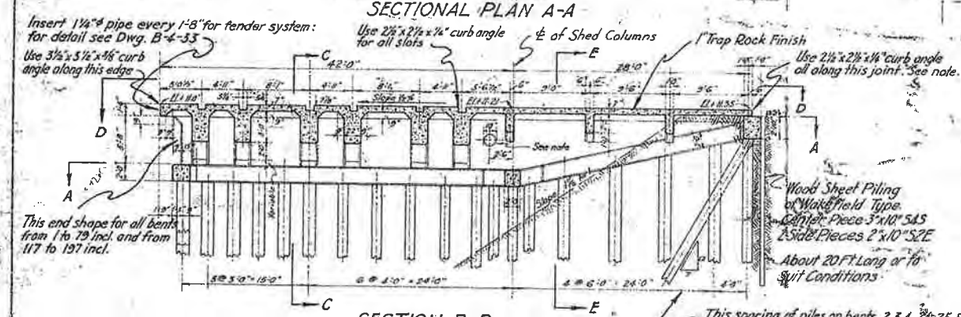


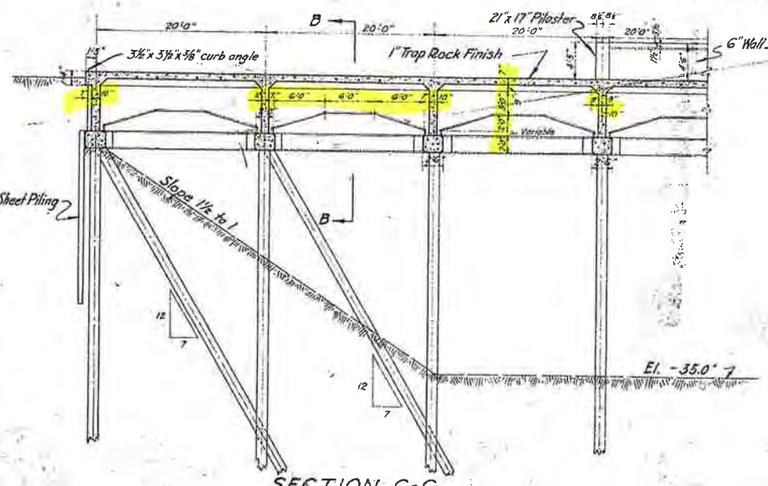


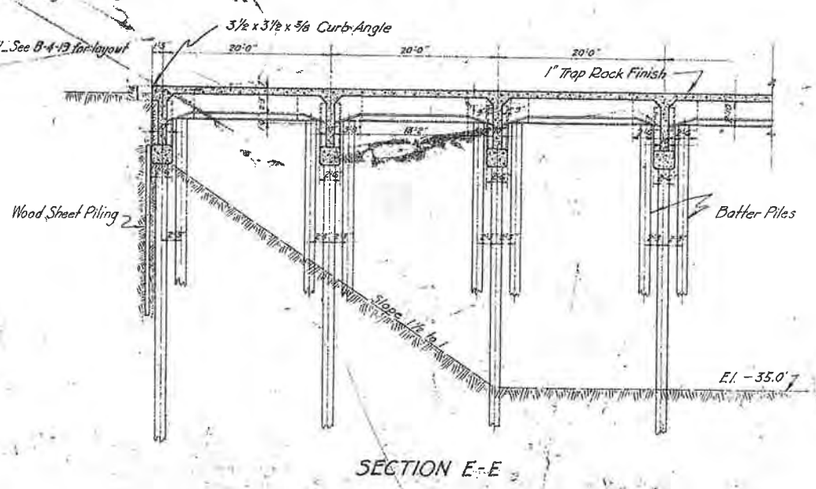




TYPICAL DETAILS OF EXPANSION JOINTS IN CONCRETE WHARF







REFERENCES:

General arrangement of wharf... B-4-19 and B-4-20
Pile Plans.... B-4-21 and B-4-22
Key plan for reinforcing details.... B-4-35

NOTES:

Provide 10" dia Hole in Bents for Fire Line; See dwgs. B-4-19 and B-4-30.
For details of curb angles see B-3-42a.
For expansion joint detail of 6" wall above wharf floor see B-4-47
Chamfer for pile caps and beams supporting R.R. track is 2"x2"; for regular floor beams 1½"x1½"

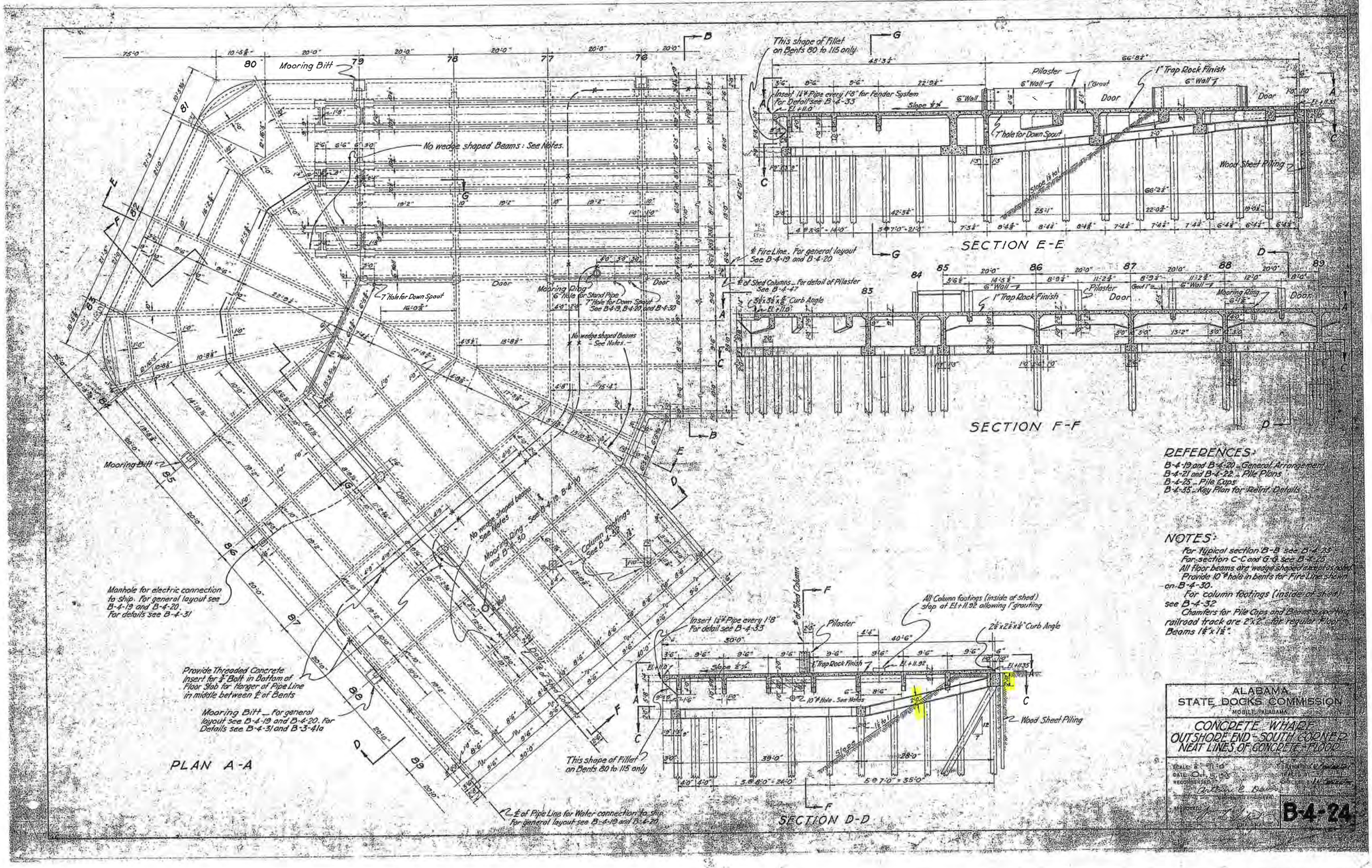
Revised-Jan. 9, 1926.

ALABAMA STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
INSHORE ENDS - NORTH & SOUTH CORNERS - NEAT LINES OF CONCRETE -

SCALE: 1/8" = 1'-0"
DATE: Oct. 15, 1925
RECOMMENDED: Arthur E. Davis, DESIGNING ENGINEER
DRAWN BY: E.W.C.
TRACED BY:
CHECKED BY:
APPROVED: CHAIRMAN

B-4-23



REFERENCES:

B-4-19 and B-4-20 - General Arrangement
B-4-21 and B-4-22 - Pile Plans
B-4-25 - Pile Caps
B-4-35 - Key Plan for Relrif. Details

NOTES:

For typical section B-B see B-4-23
For section C-C and G-G see B-4-23
All floor beams are wedge shaped except as noted
Provide 10"ϕ hole in bents for Fire Line shown on B-4-30.
For column footings (inside of shed) see B-4-32
Chamfers for Pile Caps and Beams supporting railroad track are 2"x2". For regular Floor Beams 1½"x1½".

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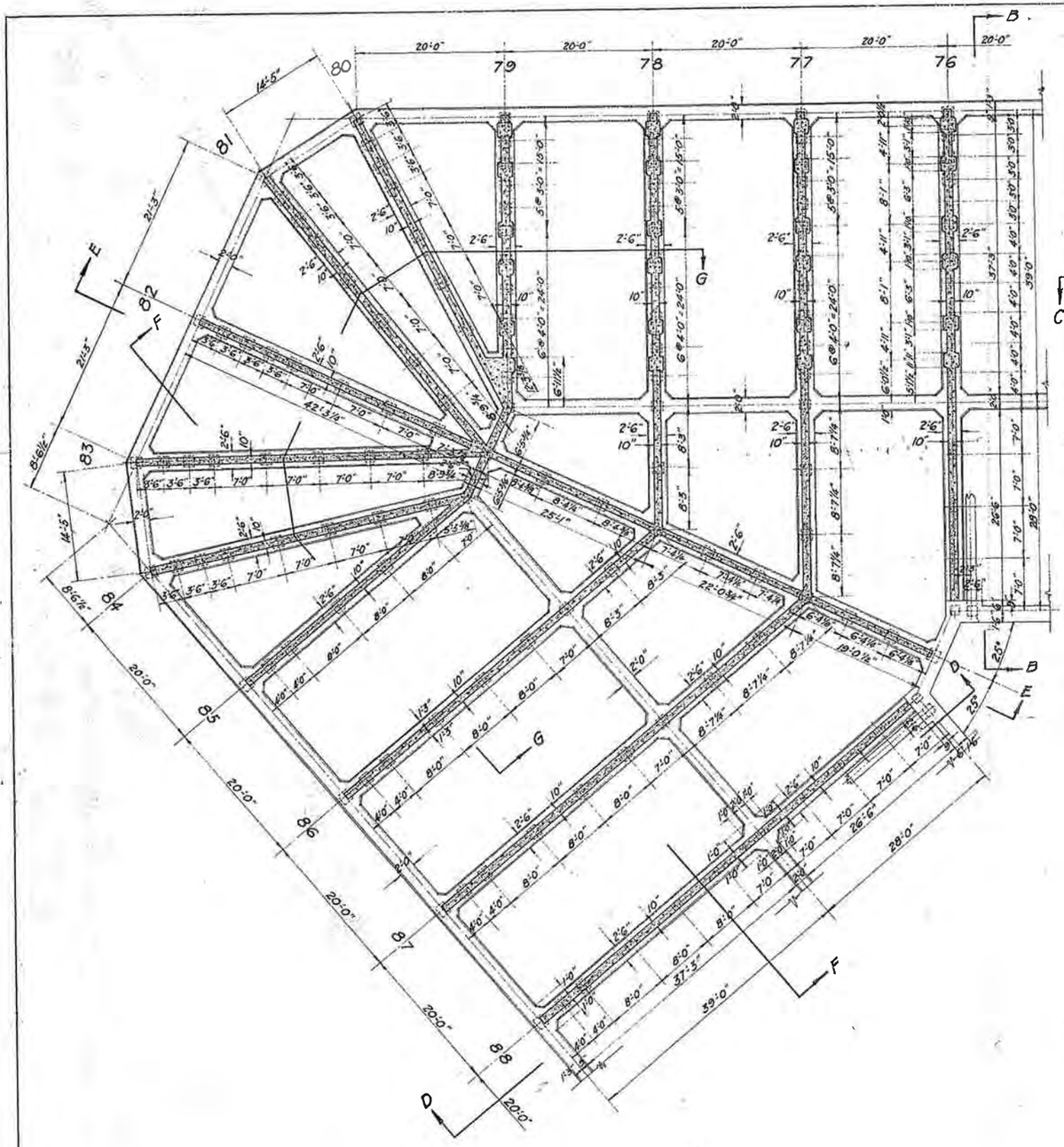
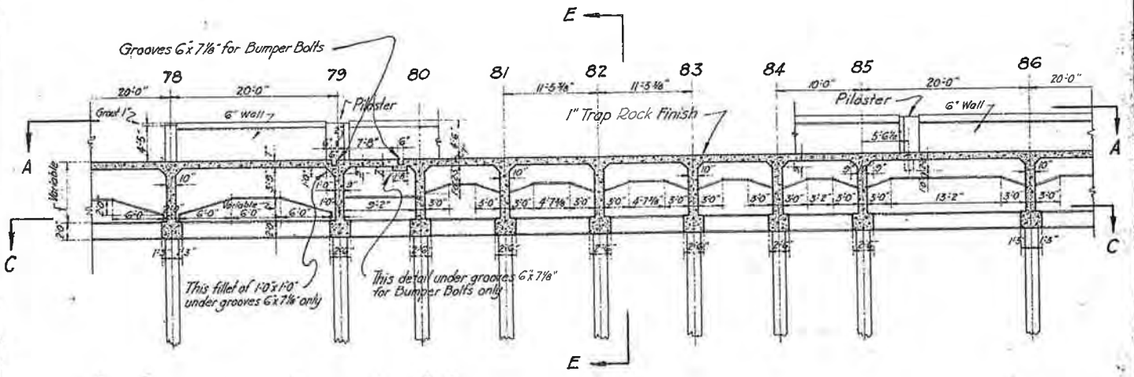
CONCRETE WHARF
OUTSHORE END - SOUTH CORNER
NEAT LINES OF CONCRETE - FLOOR

B-4-24



SECTIONAL PLAN C-C



SECTION G-G

REFERENCES:

B-4-19 and B-4-20 - General Arrangement
B-4-21 and B-4-22 Pile Plans
B-4-35 Key Plan for Reinf. details

NOTES:

For typical section B-B see B-4-23
For sections A-A, D-D, E-E and F-F see B-4-24
Chamfer for Pile Caps and Beams supporting Railroad track are 2"x 2": For regular floor beams 1½"x 1½".

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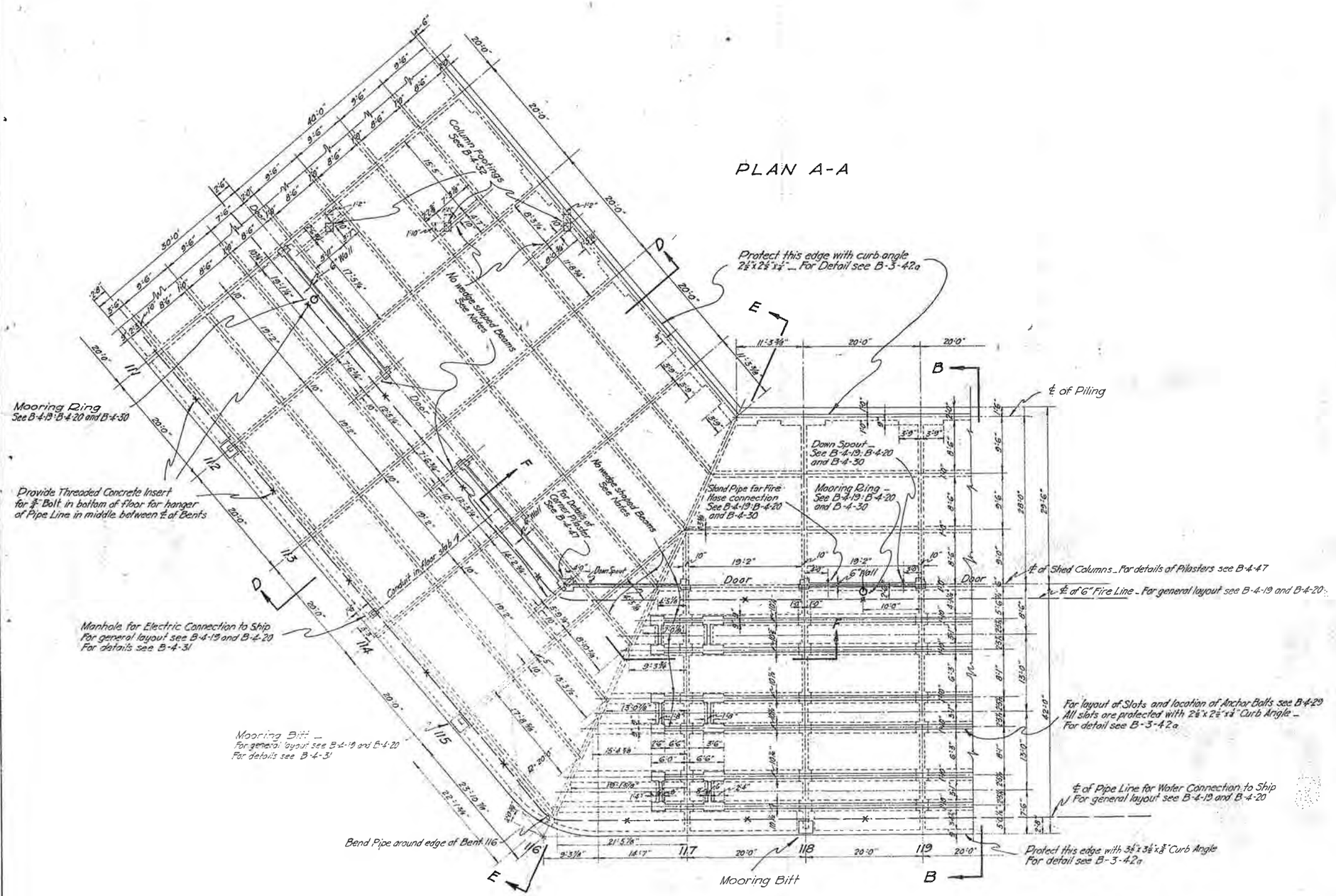
CONCRETE WHARF
OUTSHORE END - SOUTH CORNER
NEAT LINES OF CONCRETE PILE CAPS

SCALE: 1" = 1'-0"
DATE: Oct. 10, 1925
RECOMMENDED: Arthur J. Davis, DESIGNING ENGINEER.
APPROVED: CHAIRMAN
DRAWN BY E.W.C.
TRACED BY
CHECKED BY E.W.C.

B-4-25

PLAN A-A



REFERENCES:

B-4-19 and B-4-20 General Arrangement
B-4-21 and B-4-22 Pile Plans
B-4-35 Key Plan for Reinf. Details

NOTES:

For Typical Section B-B See B-4-23
For Section D-D " B-4-24
" " E-E and F-F " B-4-27
" " C-C showing Pile Cap see B-4-27
All Floor Beams are wedge shaped except as noted
Chamfer for Pile Caps and Beams supporting Railroad track are 2"x2"; For regular Floor Beams 1½"x1½"

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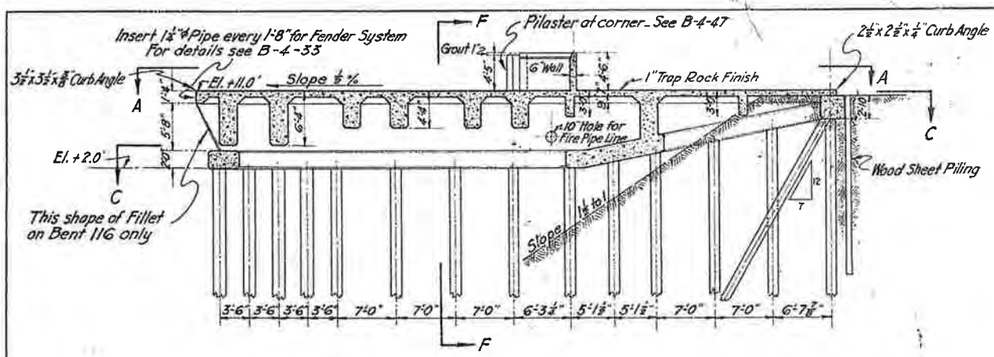
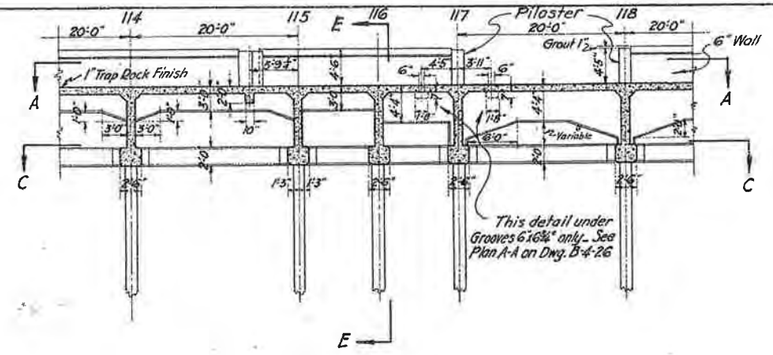
CONCRETE WHARF
OUTSHORE END - NORTH CORNER
NEAT LINES OF CONCRETE - FLOOR
- DECK PLAN A-A -

SCALE: 1" = 1'-0"
DATE: Oct. 5, 1925
RECOMMENDED: Arthur E. Davis, DESIGNING ENGINEER
APPROVED: CHAIRMAN
DRAWN BY: E.W.C.
TRACED BY:
CHECKED BY: W. Easterling

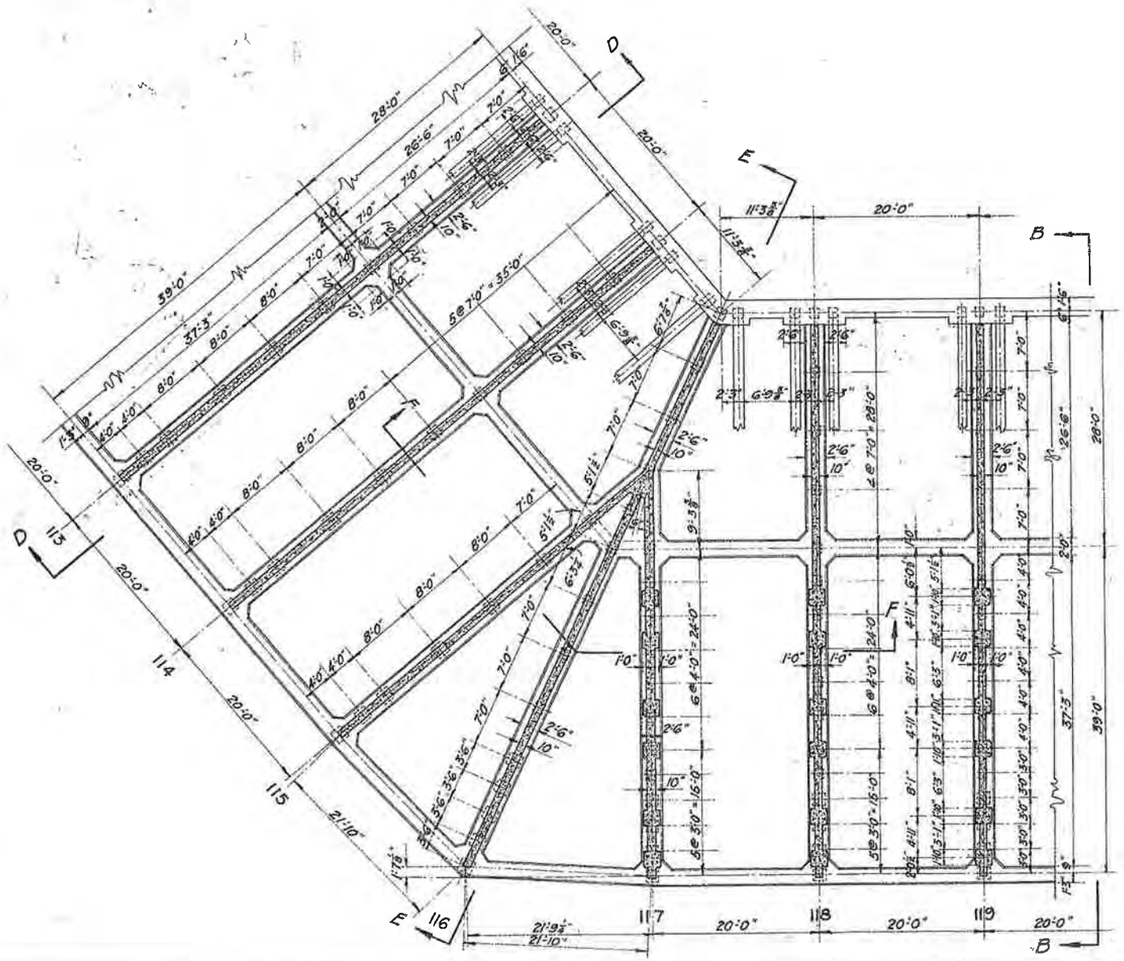
B-4-26



SECTION E-E



SECTION F-F



SECTIONAL PLAN C-C

REFERENCES:

B-4-19 and B-4-20 General Arrangements
B-4-21 and B-4-22 Pile Plans
B-4-35 Key Plan for Reinf. Details

NOTES:

For typical section B-B see B-4-23
" " D-D " B-4-24
" plan A-A " B-4-26
Chamfer for Pile Caps and Beams supporting Railroad tracks are 2"x2". For regular Floor Beams 1½" x 1½"

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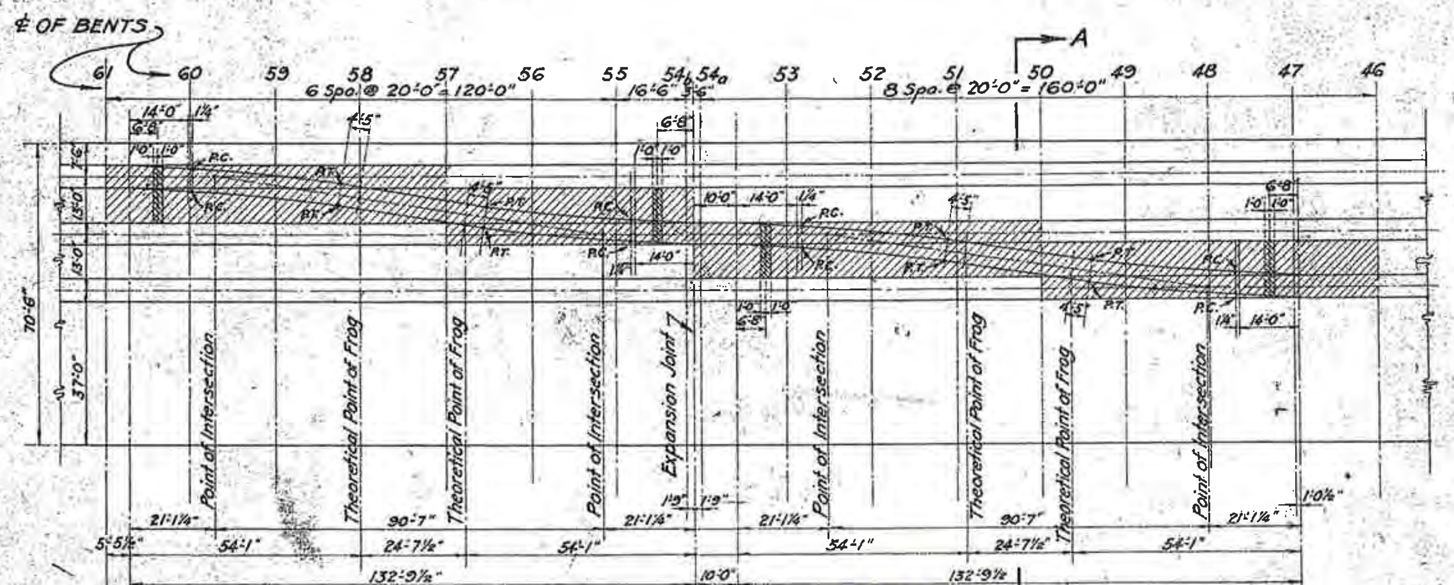
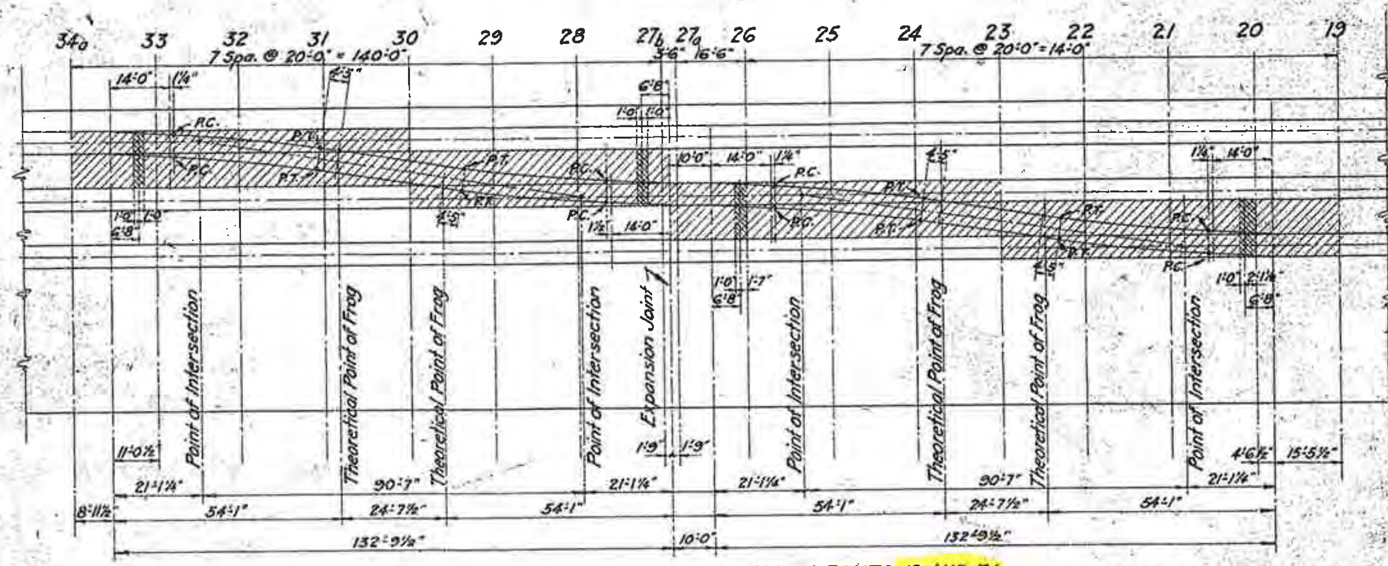
... CONCRETE WHARF ...
OUTSHORE END - NORTH CORNER
NEAT LINES OF CONCRETE - PILE CAPS

SCALE: ⅛" = 1'-0"
DATE: OCT. 15, 1925
RECOMMENDED: Arthur A. Davis, DESIGNING ENGINEER
APPROVED: CHAIRMAN.
DRAWN BY
TRACED BY
CHECKED BY

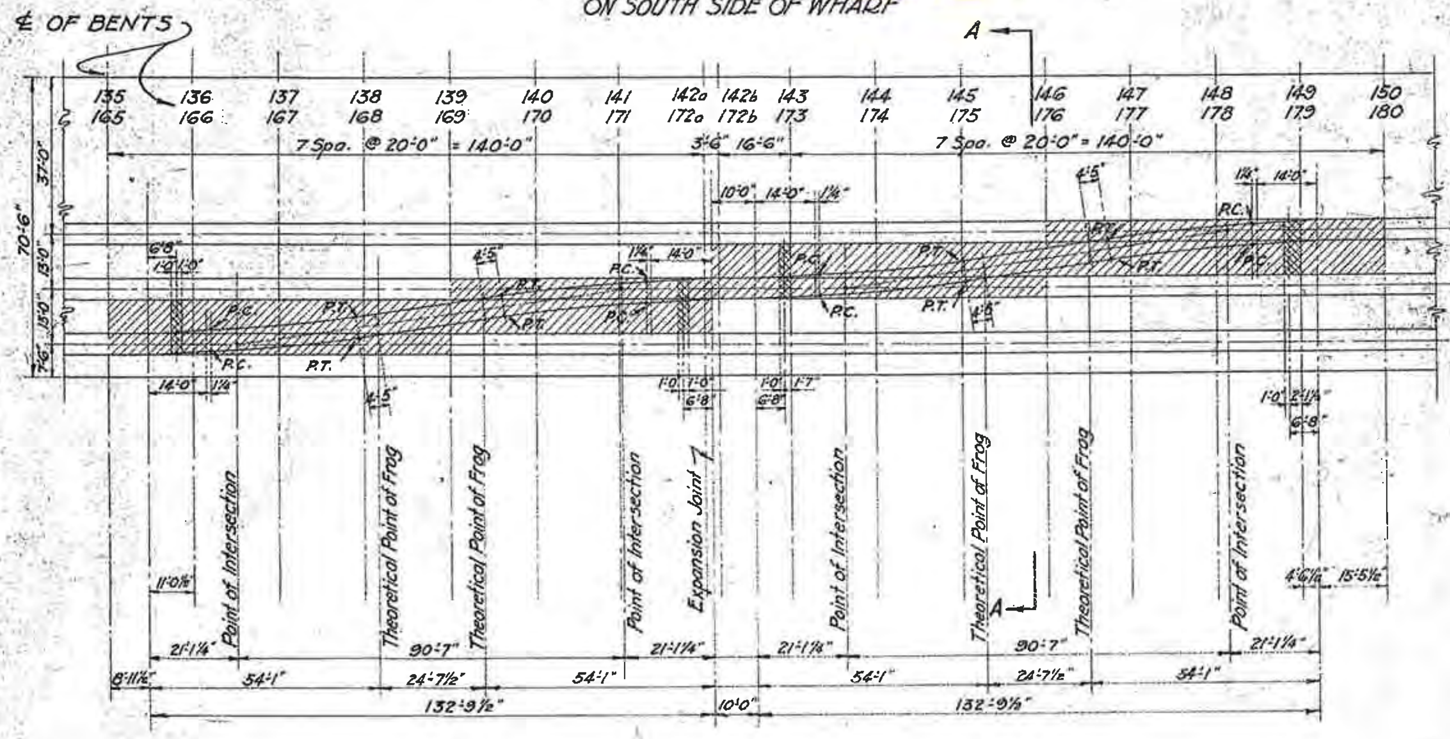
B-4-27



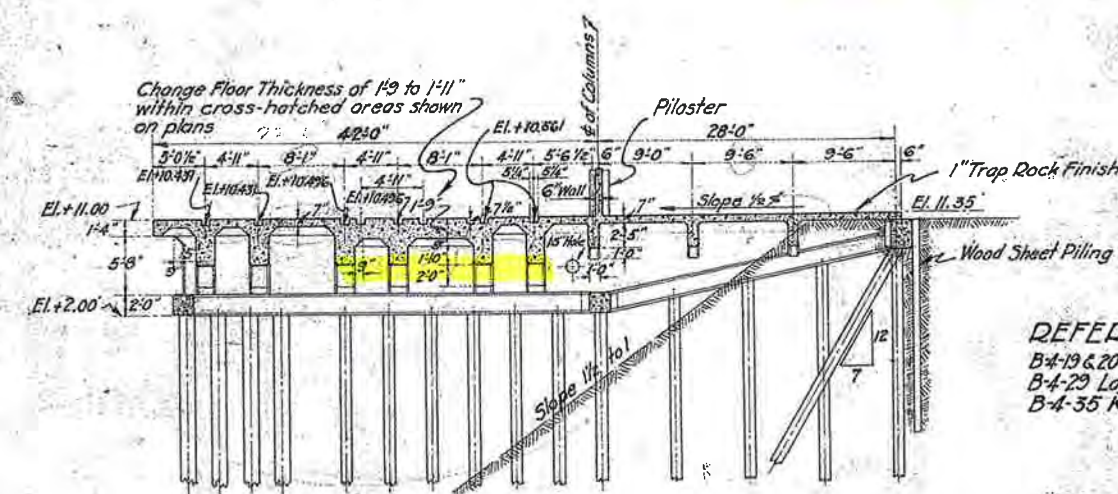
CROSS-OVER BETWEEN BENTS 46 AND 61
ON SOUTH SIDE OF WHARF



CROSS-OVER BETWEEN BENTS 19 AND 34a
ON SOUTH SIDE OF WHARF



CROSS-OVERS BETWEEN BENTS 135-150 AND 165-180
ON NORTH SIDE OF WHARF



SECTION A-A
Showing special floor under Cross-Overs
For further Details of Bents see typical section B-B
on B-4-23

REFERENCES:
B-4-19 & 20 General Arrangement of Wharf
B-4-29 Layout of Slots for Cross-over
B-4-35 Key Plan for Reinf. Detail

NOTES:
Spacing for Anchor Bolts for Rails on Concrete Wharf are ± 1'-8" except as shown on B-4-29
Hatched areas indicate Special Floor as shown in Section A-A on this drawing
Cross-Hatched areas indicate Special Floor of 1'-11" instead of 1'-9" as shown in Section A-A on this drawing

Revised Jan. 9, 1926.

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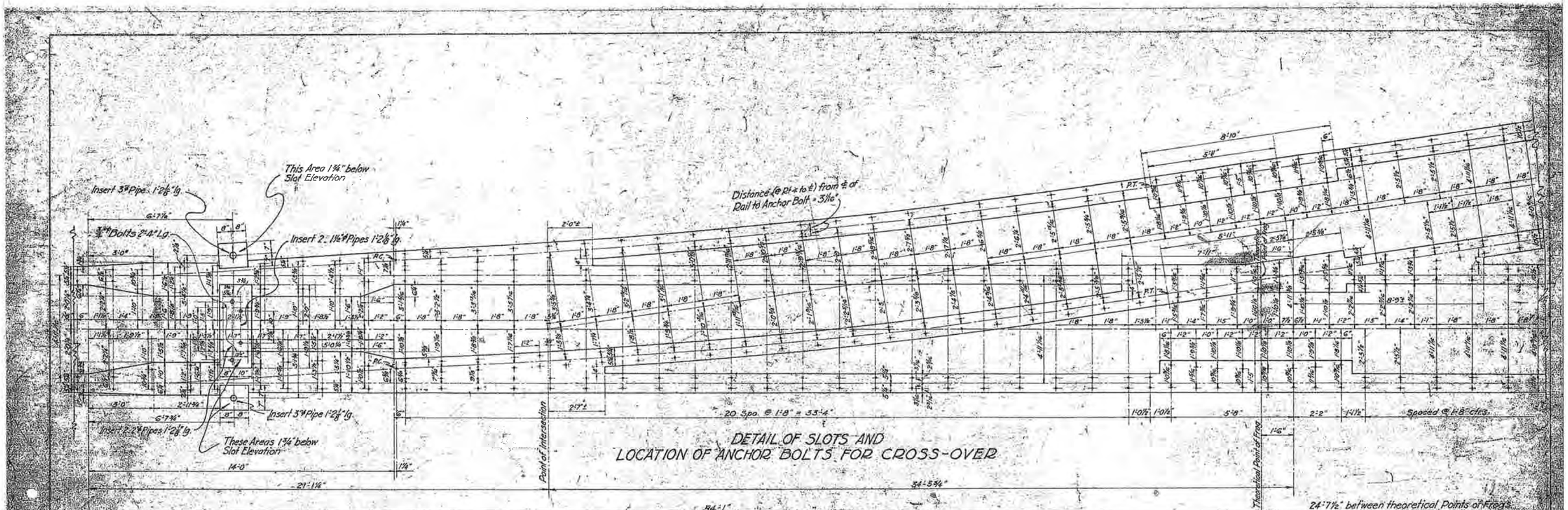
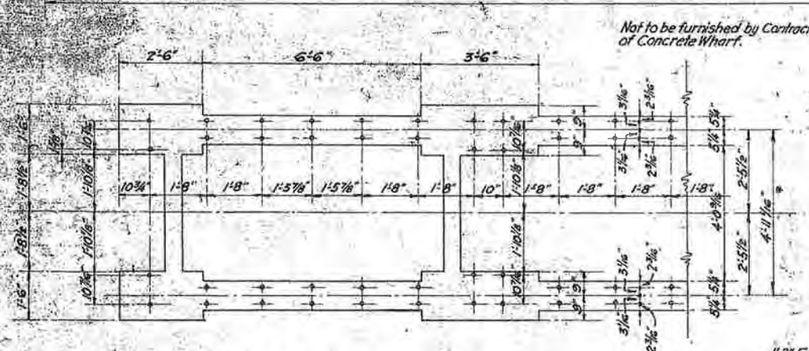
MOBILE, ALABAMA

CONCRETE WHARF
SPECIAL FLOOR FOR CROSS-OVER
GENERAL LAYOUT

B-4-28



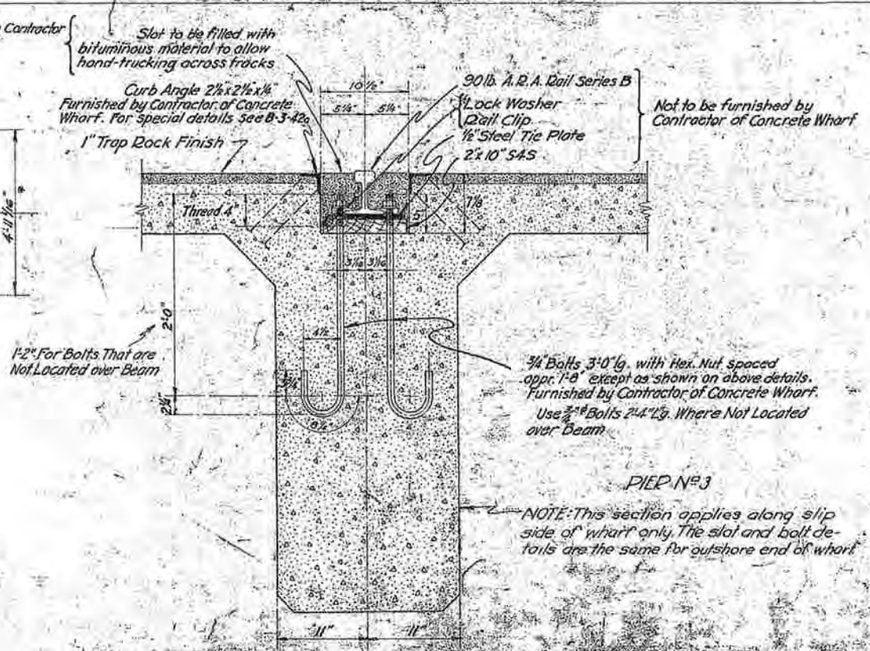
DETAIL OF SLOTS AND
LOCATION OF ANCHOR BOLTS FOR CROSS-OVER



For further details of slots for Bumping Posts
See drawings B-4-24, B-4-26, B-4-19 and B-3-47a For Pier №2 only.
For Pier №1 See Dwgs. №s B-4-185, B-4-186, B-4-187 and 188

DETAIL OF SLOTS AND
LOCATION OF ANCHOR BOLTS FOR BUMPING POSTS

For Pier №3 see Dwgs. B-5-45 and B-5-50



TYPICAL SECTION OF RAIL SLOT IN CONCRETE WHARF
Scale: 1½" = 1'-0"

REFERENCES:

PIER №2 { B-4-19 & 20 General Arrangement of Wharf
B-4-35 Key Plan for Reinf. Details

PIER №1 { B-4-187 & 188 - General Arrgt. of Wharf (Deck Plan)
B-4-190 Key Plan for Reinf. Details.

NOTES FOR PIER №2 { Locations of Anchor Bolts are for all turnouts alike for General Layout of Cross-overs see B-4-28.
Spacings for Anchor Bolts for Rails on Concrete Wharf are ±1'-8" except as shown on this drwg.
For Elevations of Slots see Sec. A-A on B-4-28

FOR PIER №1 Same Notes as for Pier №2. For General Layout of Cross-overs & Elevation of Slots see Drawing №B-4-187.

FOR PIER №3 { B-5-45 General Arrangement of Wharf
B-5-55 Key Plan for Reinforcing Details
B-5-56 General Layout of Crossover.
Same notes as for Pier №2.

This Drawing Used For Pier's №1 and №2 and №3

Revised-Jan. 9, 1926.
Revised-June 30, 1926.
Revised-Dec. 6, 1926.
Revised-June 1, 1927.

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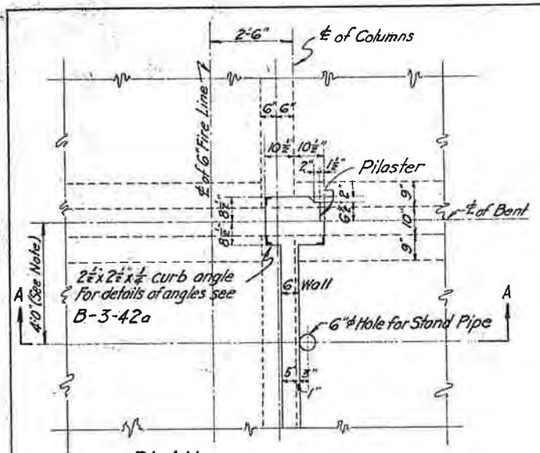
MOBILE, ALABAMA

CONCRETE WHARF
SLOTS FOR CROSS-OVER and BUMPING POST
LOCATION OF ANCHOR BOLTS

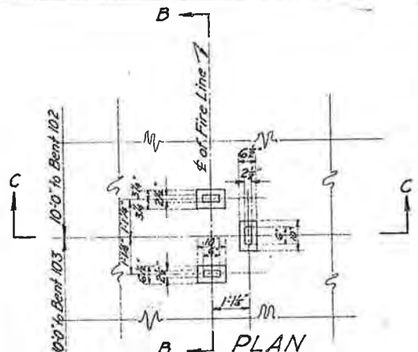
SCALE: 1" = 1'-0"
DATE: OCT. 15, 1925
RECOMMENDED: [illegible]
DRAWN BY: [illegible]
TRACED BY: [illegible]
APPROVED: [illegible]

B-4-29



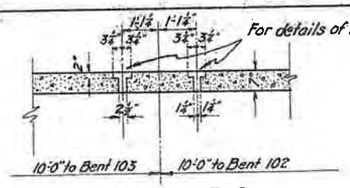
PLAN

DETAIL SHOWING HOLES FOR STAND PIPE FOR FIRE HOSE CONNECTION.

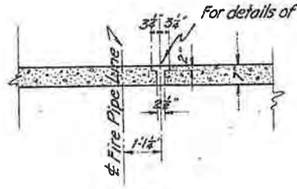


PLAN

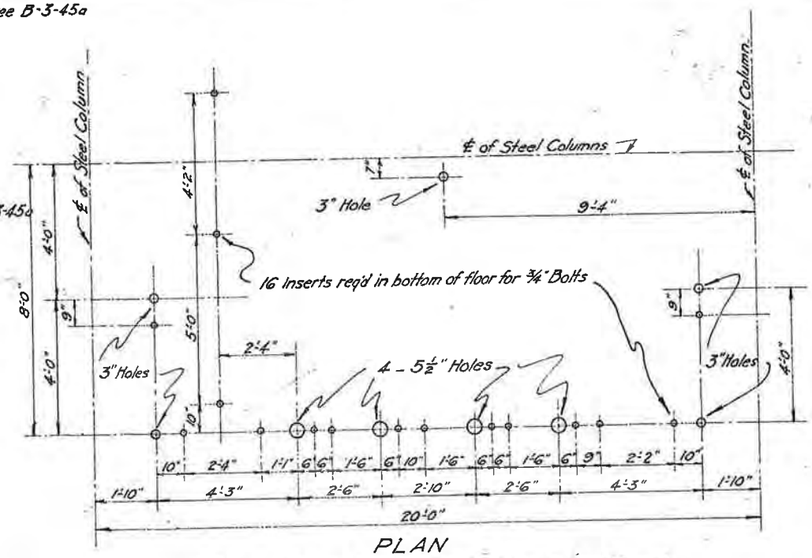
Details of holes allowing operation of 6" Gate Valves of Fire Line on outshore end of wharf between Bents Nos 102 and 103. See B-4-19 and B-4-20



SECTION B-B

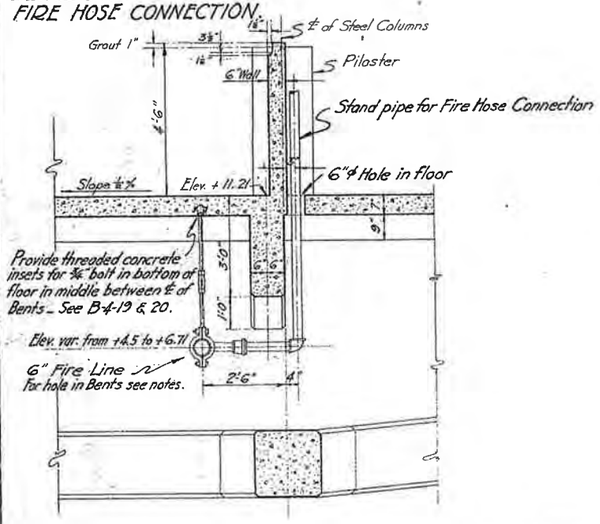


SECTION C-C

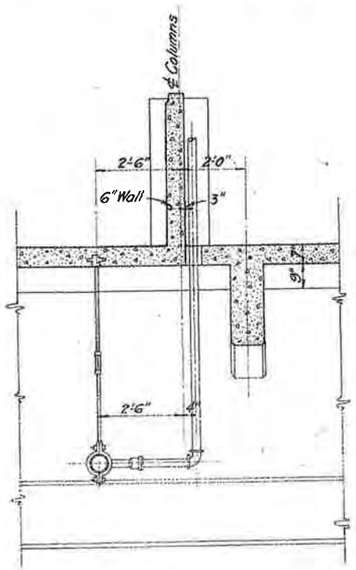


PLAN

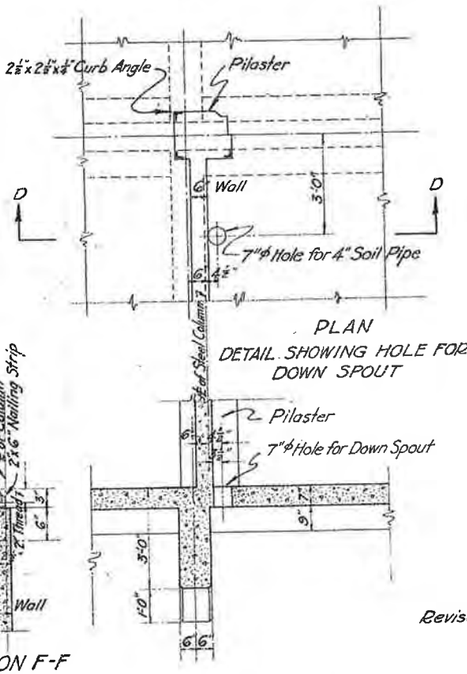
Diagram showing location of holes for pipes and inserts for hangers for toilets. For general location of toilets see B-4-19 and B-4-20.



SECTION A-A



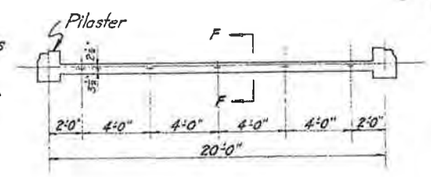
Corresponding SECTION A-A for outshore end of wharf

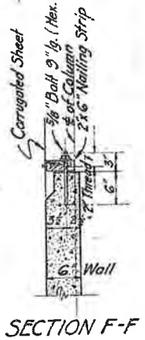


PLAN

DETAIL SHOWING HOLE FOR DOWN SPOUT

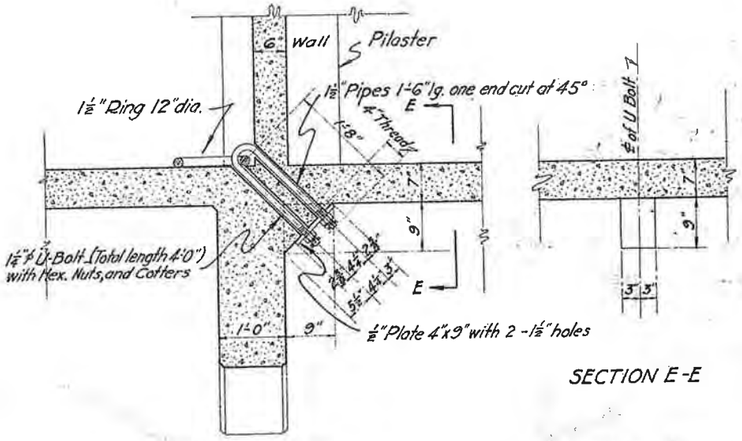
SECTION D-D





SECTION F-F

Location and Details of Bolts for Nailing Strip on Top of 6" wall



SECTION E-E

DETAILS SHOWING MOORING DEVICE NEAR SHEDS (See Notes)
For general Location see B-4-19 and B-4-20

NOTES:

℄ of 6" Fire Line varies from Elev. + 4.5 to +6.71 as shown on Drwg's B-4-19 and B-4-20. Provide corresponding holes 10"ϕ in Bents. - 6" holes in floor for stand pipes of fire hose connections are 4'-0" from ℄ of columns except as noted near Bents 17a, 27a, 94, and 107 on drawing B-4-19 and B-4-20.
For detail showing Mooring Device at outshore end see B-4-32

REFERENCES:

See B-4-19 and B-4-20 for general arrangment of wharf.
See B-4-35 for key plan of reinforcing details.

Revised - Jan. 9. 1926

THIS DRAWING SHOWS:

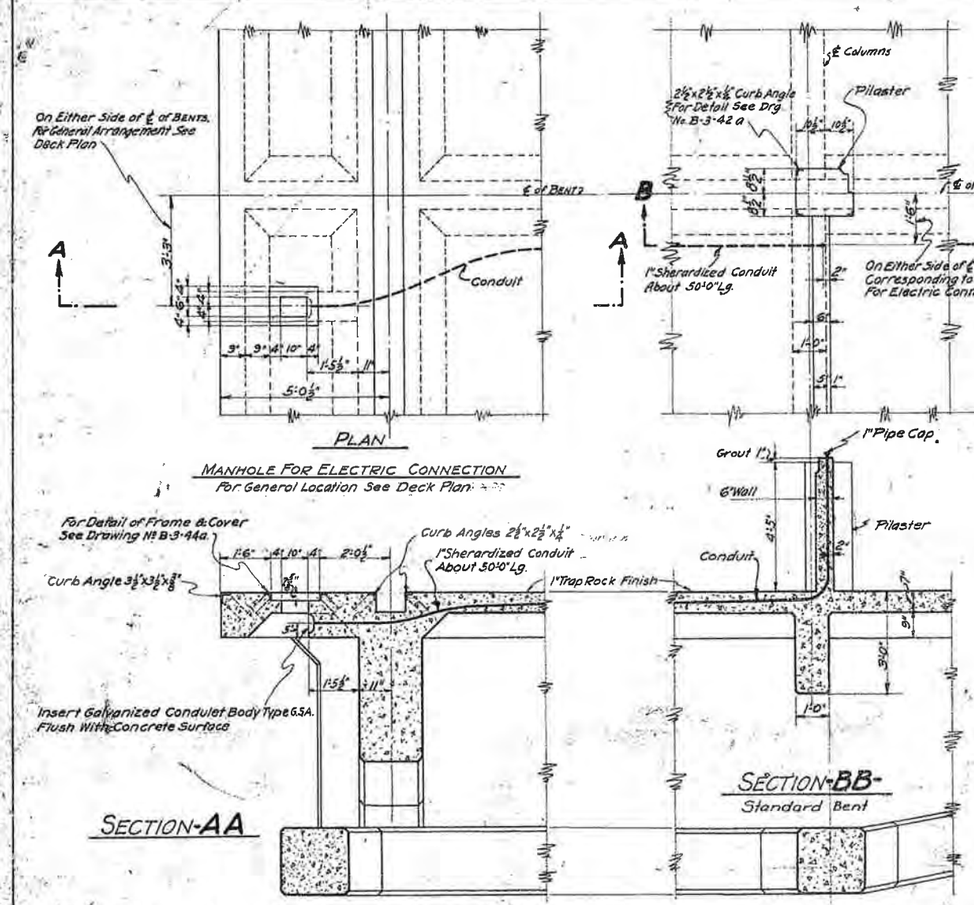
FIRE HOSE CONNECTION - Details for holes in floor.
FIRE LINE - Details for holes in floor for operation of 6" Gate Valves.
TOILET - Diagram showing location of holes for pipes and inserts for hangers.
DOWN SPOUT - Detail showing hole for 4" soil pipe.
MOORING DEVICE NEAR SHEDS - General details
Bolts for Nailing Strip, on top of 6" wall.

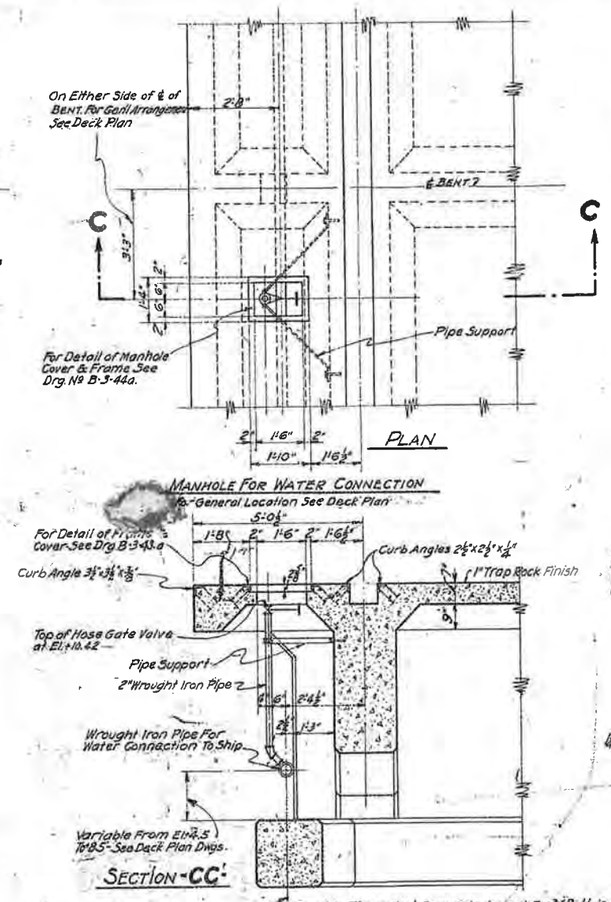
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

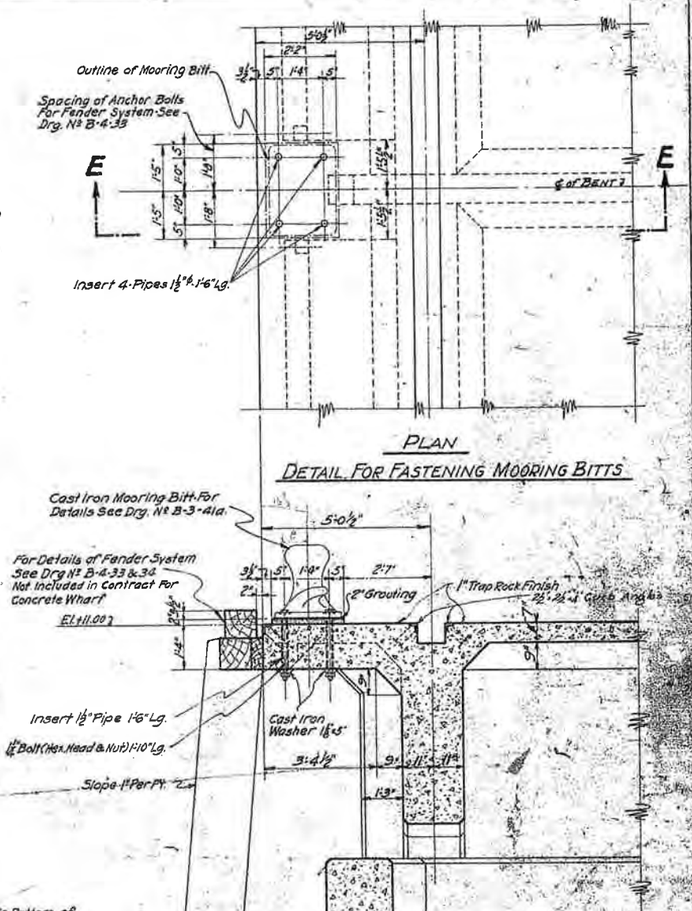
CONCRETE WHARF GENERAL DETAILS

SCALES: 1"=1'0" and ¾"=1'0"
DATE: OCT., 15, 1925
ASSOCIATED: Arthur E. Davis, DESIGNING ENGINEER
APPROVED: CHAIRMAN
DRAWN BY: E.W.G.
TRACED BY:
CHECKED BY: E.W. Constantine

B-4-30







REFERENCES -
Pier № 2 — B-4-19 & 20 General Arrgt. of Wharf (Deck Plan)
B-4-35 Key Plan for Reinf. Details.
~~Pier № 1 — B-4-54 & 55 General Arrgt. of Wharf~~
~~B-4-66 Key Plan for Reinf. Details~~

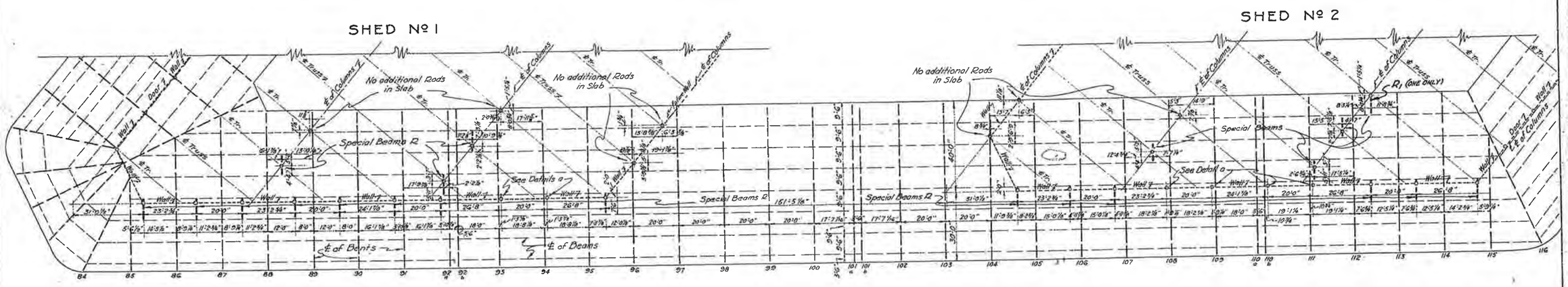
NOTE:- This Drawing Shows -
Manholes for Water & Electric Connections.
Detail for Fastening Mooring Bitts.
Detail Showing Vents Near ℄ of BENTS.

ALABAMA STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF GENERAL DETAILS

SCALE: ¼ & ⅝"=1'0" DRAWN BY: [illegible]
DATE: Oct 15, 1925 TRACED BY: [illegible]
RECOMMENDED: [illegible] CHECKED BY: [illegible]
APPROVED: [illegible]

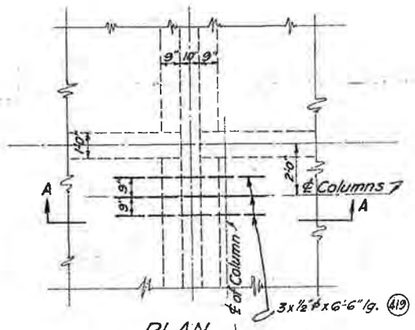
B-4-31



PLAN OF OUTSHORE END

SHOWING LOCATION OF SHED COLUMN CENTERS AND BEAMS R AND R1

Scale: 1"=20'

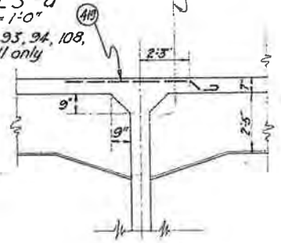


PLAN

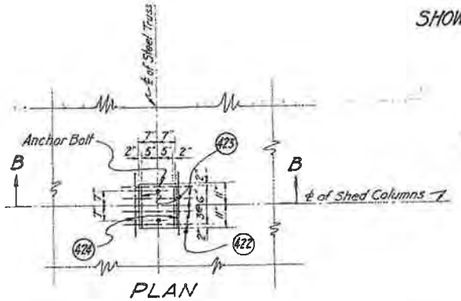
DETAILS a

Scale 3/8" = 1'-0"

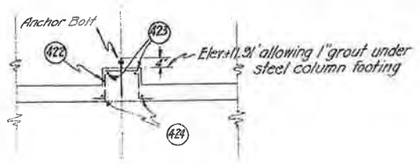
Near Bents 93, 94, 108, 109, 110b and 111 only



SECTION A-A



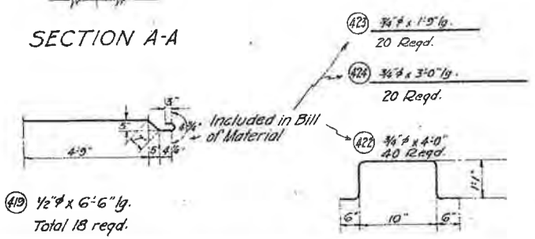
PLAN



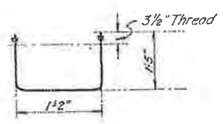
SECTION B-B

DETAILS OF INTERIOR COLUMN FOOTINGS

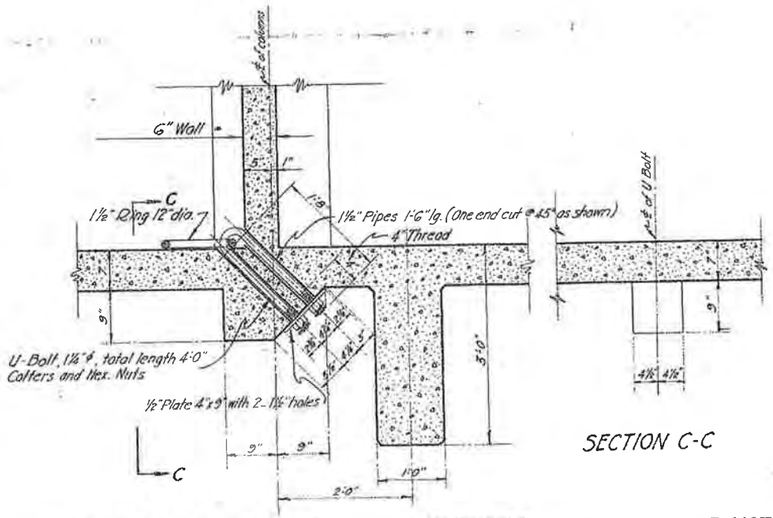
(10 Column Footings on wharf for both sheds)



(419) ½"ϕ x 6'-6" lg.
Total 18 reqd.



1"ϕ Anchor Bolt with 2 Hex. Nuts
10 Reqd. (20 Nuts)
Not Included in Bill of Material



DETAIL SHOWING MOORING DEVICE AT OUTSHORE ENDS ONLY — SEE NOTES

Scale: 1"=1'-0"

REFERENCES:

B-4-19 and 20 General Arrangment of Wharf
B-4-21 and 22 Pile Plans
B-4-35 Key Plan for Reinf. Details

NOTES:

Total number of Beams R = 20
" " " R_1 = 1
For Reinf. of 6" Wall 4'-6" high (above floor) and Pilasters supporting Future Shed Columns see B-4-47.
For detail showing Mooring Device near sheds at Pier Sides see B-4-30 and B-4-19 and 20.

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
DETAIL OF OUTSHORE END

SCALES: AS SHOWN
DATE: Oct. 15, 1928
RECOMMENDED: Arthur E. Davis, ENGINEER
APPROVED: CHAIRMAN
DRAWN BY E.W.C.
TRACED BY
CHECKED BY W.W.Pentecost

B-4-32

Pier 3: Use C.I. Insert here See B-5-58

PIER 2: Insert this bolt only on every ℄ of bent with head in concrete. Free end 1:4"

1"ϕ Bolts - Length to suit

1"ϕ Bolts 2'-7" lg. (Square Head, Hex. Nut - 5" Thread)

Chock Block 11½" x 11½"

PLAN

Scale: ¼" = 1'-0"

ELEVATION A-A

Scale: ¼" = 1'-0"

Elev. +11.0'

Variable

Elev. 0.0

1"ϕ Bolts, Length to suit

Reinforced Concrete Piles ℄

Fill all holes around Bolt Heads with Bituminous Material

1"ϕ Bolt 2'-0" lg. - Square Head, Hex. Nut - 5" Thread

Cast Iron Washers ⅞" x 4"

24 gage Galvanized Sheet Iron

1"ϕ Bolt through Pile - Length to Suit

1¼"ϕ Pipe 12½" lg.

1"ϕ Bolt 2'-7" lg. 5" Thread

All timber creosoted and S4S.

1"ϕ Bolts - Length to Suit

Cast Iron Washers ⅞" x 4"

DETAIL C-C

Scale: 1" = 1'-0"

PIER №3 NOTE: USE THIS DRAWING FOR FENDER SYSTEM ONLY. The drawing applies to Slip Side of Wharf from new Bent 1 to Bent 76, and is to be used as a guide for installation of Fender System for Southeast Corner and Bulkhead End. See Detail Sheet.

See Detail C-C

Curb. angles

1" Trap Rock Finish

Slope ½"/ft

6" Wall

℄ Steel Columns

Hole for Fire Pipe Line

Elev. +11.0'

Top of Piles - Elev. +3.0'

M.L.W. = Elev. 0.0

Wood Piles 60' lg. on 6'-8" c.s.

Wood Sheet Piling

40' Piles

Slope 1 to 12

Reinforced Concrete Piles

Elev. -35.0'

60'-0" Piles

55'-0" Piles

50'-0" Piles

45'-0" Piles

40'-0" Piles

10" SQ

12" SQ

SECTION B-B

Scale: 3/16" = 1'-0"

Standard Bents North Side of Pier 1

Slip Side of Pier №3, Bents 1 to 76 (THIS SECTION APPLIES TO FENDER SYSTEM ONLY)

REFERENCES

PIER №2 { B-4-19 and 20 General Arrangement of Wharf
B-4-34 Fender System - Detail of Corners

PIER №1 { B-4-55 & 56 General Arrangement of Wharf
B-4-34 Fender System - Detail of Corners

Pier №3 { B-5-45 General Arrangement of Wharf
B-5-58 Fender System Details

This Dwg Applies to Piers №1, 2 and 3.

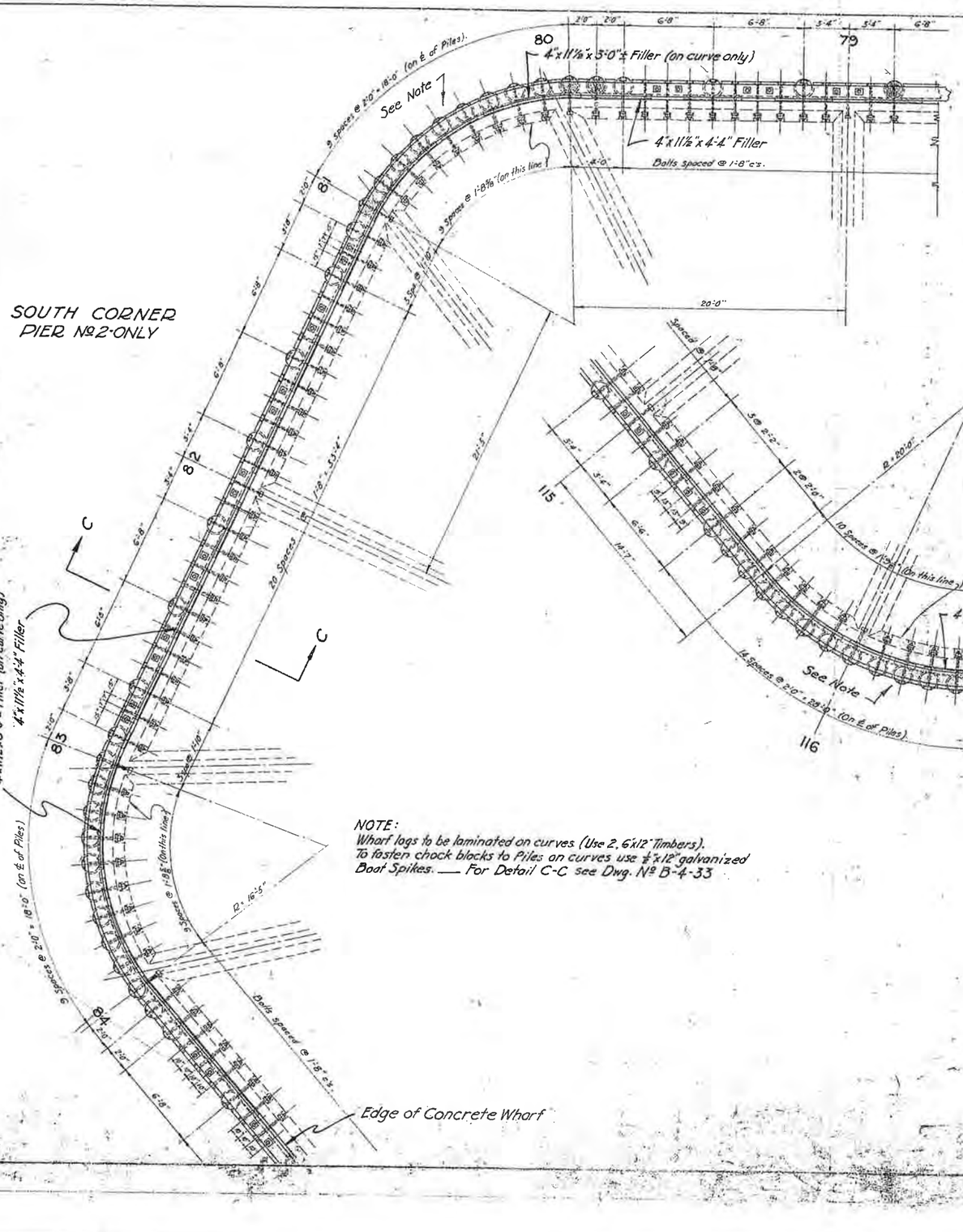
For Special Bents North Side of Pier 1 see dwg B-4-60.

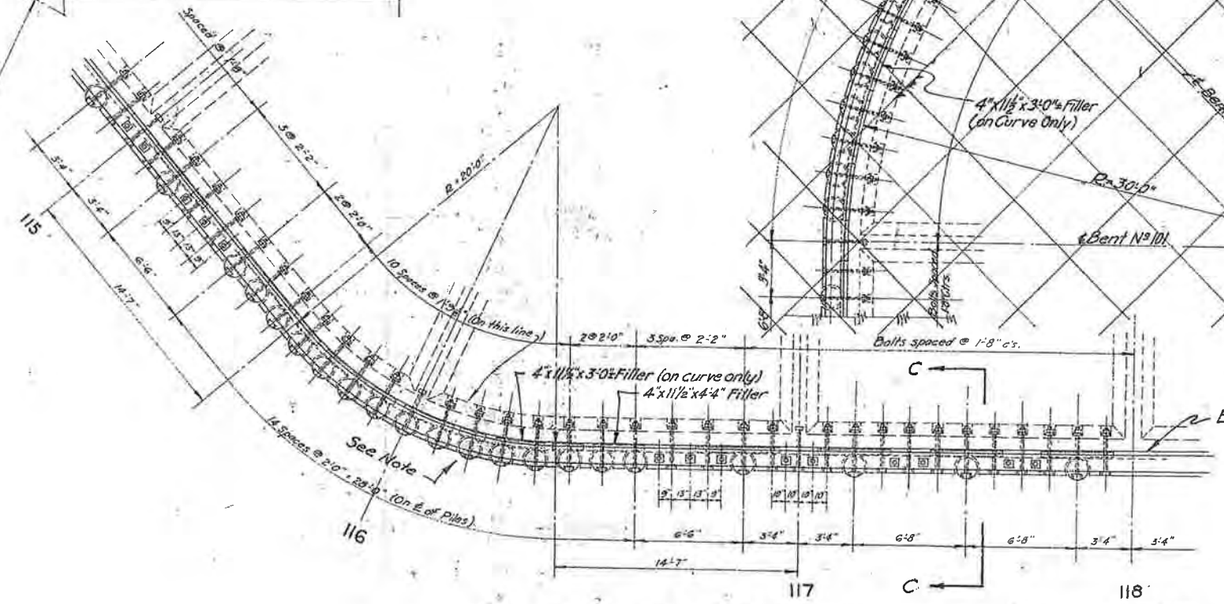
ALABAMA STATE DOCKS COMMISSION

CONCRETE WHARF FENDER SYSTEM DETAILS

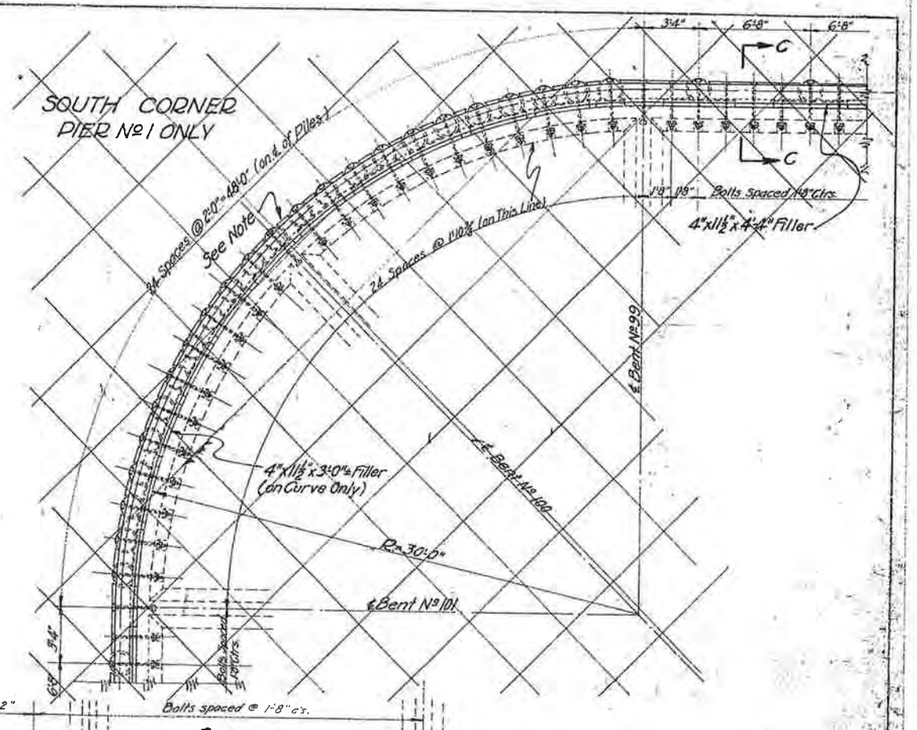
B-4-55

SOUTH CORNER
PIER Nº 2 ONLY





SOUTH CORNER
PIER Nº 1 ONLY



NOTE:
Wharf logs to be laminated on curves. (Use 2, 6"x12" Timbers).
To fasten chock blocks to Piles on curves use ¾"x12" galvanized Boat Spikes. —— For Detail C-C see Dwg. Nº B-4-33

NORTH CORNER
PIERS Nº 1 & 2 –

REFERENCES:
For Pier Nº 2 { B-4-19 and 20 General Arrangment of Wharf
B-4-33 Fender System Details. –
~~For Pier Nº 1 { B-4-54 and B-4-55 General Arrgt of Wharf~~
~~B-4-33 Fender System Details~~

This Drawing Applies to Piers Nº 2 only

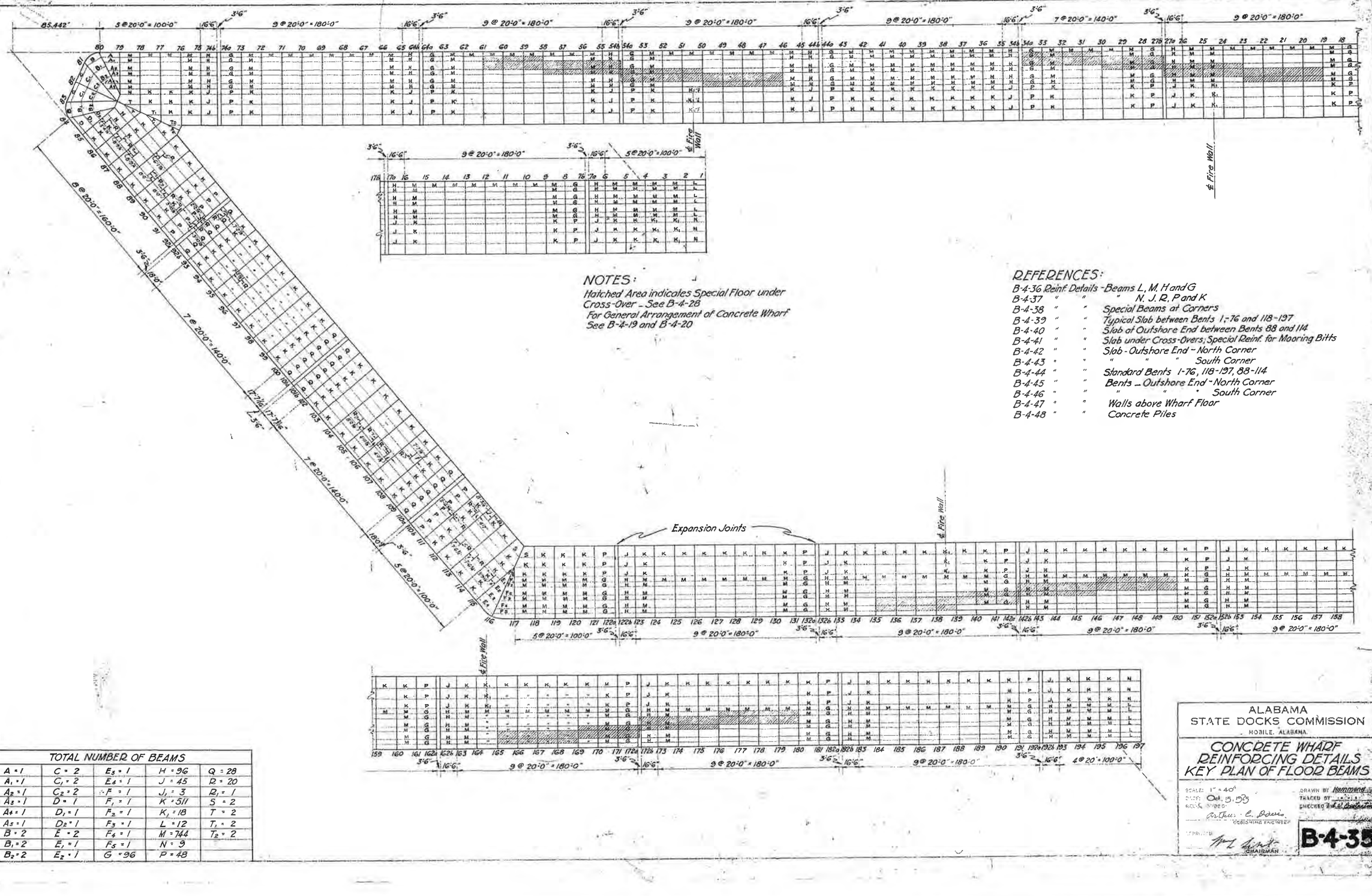
Revised - March 11, 1927

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF
FENDER SYSTEM
DETAILS OF CORNERS

SCALE 1" = 10'
DATE Oct. 15, 1925
RECOMMENDED: Arthur C. Brown
DRAWN BY W.L.C.
TRACED BY
CHECKED BY

B-4-34



NOTES:

Hatched Area indicates Special Floor under Cross-Over - See B-4-28

For General Arrangement of Concrete Wharf See B-4-19 and B-4-20

REFERENCES:

B-4-36	Reinf. Details -	Beams L, M, H and G
B-4-37	" "	" N, J, R, P and K
B-4-38	" "	Special Beams at Corners
B-4-39	" "	Typical Slab between Bents 1-76 and 118-197
B-4-40	" "	Slab at Outshore End between Bents 88 and 114
B-4-41	" "	Slab under Cross-Overs; Special Reinf. for Mooring Bitts
B-4-42	" "	Slab - Outshore End - North Corner
B-4-43	" "	" " " South Corner
B-4-44	" "	Standard Bents 1-76, 118-197, 88-114
B-4-45	" "	Bents - Outshore End - North Corner
B-4-46	" "	" " " South Corner
B-4-47	" "	Walls above Wharf Floor
B-4-48	" "	Concrete Piles

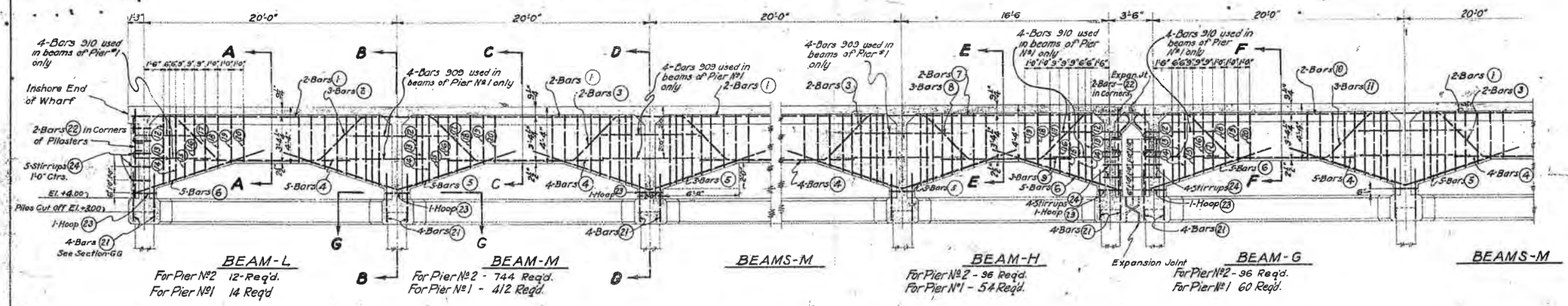
TOTAL NUMBER OF BEAMS				
$A = 1$	$C = 2$	$E_3 = 1$	$H = 96$	$Q = 28$
$A_1 = 1$	$C_1 = 2$	$E_4 = 1$	$J = 45$	$R = 20$
$A_2 = 1$	$C_2 = 2$	$F = 1$	$J_1 = 3$	$R_1 = 1$
$A_3 = 1$	$D = 1$	$F_1 = 1$	$K = 511$	$S = 2$
$A_4 = 1$	$D_1 = 1$	$F_2 = 1$	$K_1 = 18$	$T = 2$
$A_5 = 1$	$D_2 = 1$	$F_3 = 1$	$L = 12$	$T_1 = 2$
$B = 2$	$E = 2$	$F_4 = 1$	$M = 744$	$T_2 = 2$
$B_1 = 2$	$E_1 = 1$	$F_5 = 1$	$N = 9$	
$B_2 = 2$	$E_2 = 1$	$G = 96$	$P = 48$	

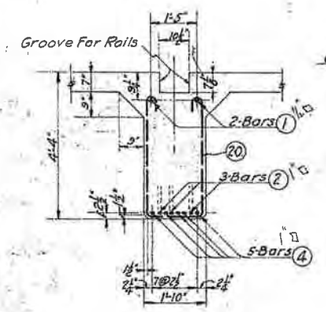
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF REINFORCING DETAILS KEY PLAN OF FLOOD BEAMS

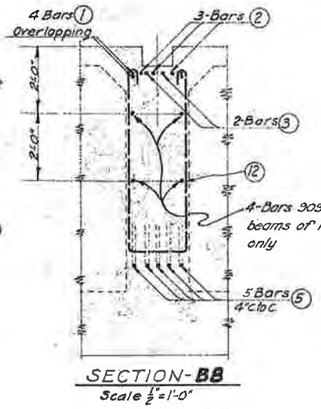
SCALE: 1" = 40'
DATE: Oct. 15, 1938
DESIGNED BY: Arthur C. Morris, DESIGNING ENGINEER
DRAWN BY: Hammond
TRACED BY:
CHECKED BY: A. C. Morris
APPROVED: CHAIRMAN

B-4-35

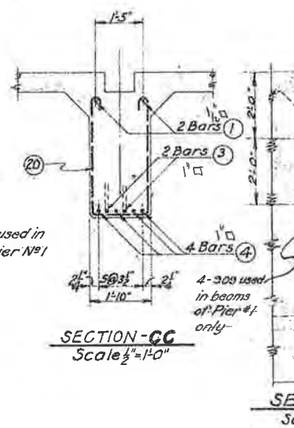




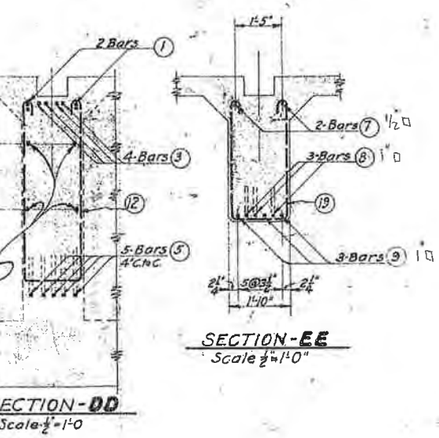
SECTION-AA
Scale $\frac{1}{2}$"=1'-0"



SECTION-BB
Scale $\frac{1}{2}$"=1'-0"

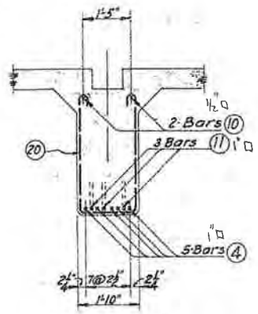


SECTION-CC
Scale $\frac{1}{2}$"=1'-0"

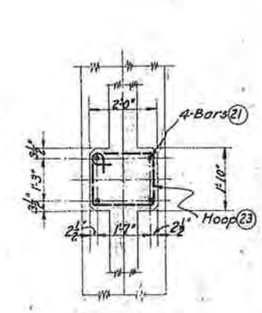


SECTION-DD
Scale $\frac{1}{2}$"=1'-0"

SECTION-EE
Scale $\frac{1}{2}$"=1'-0"

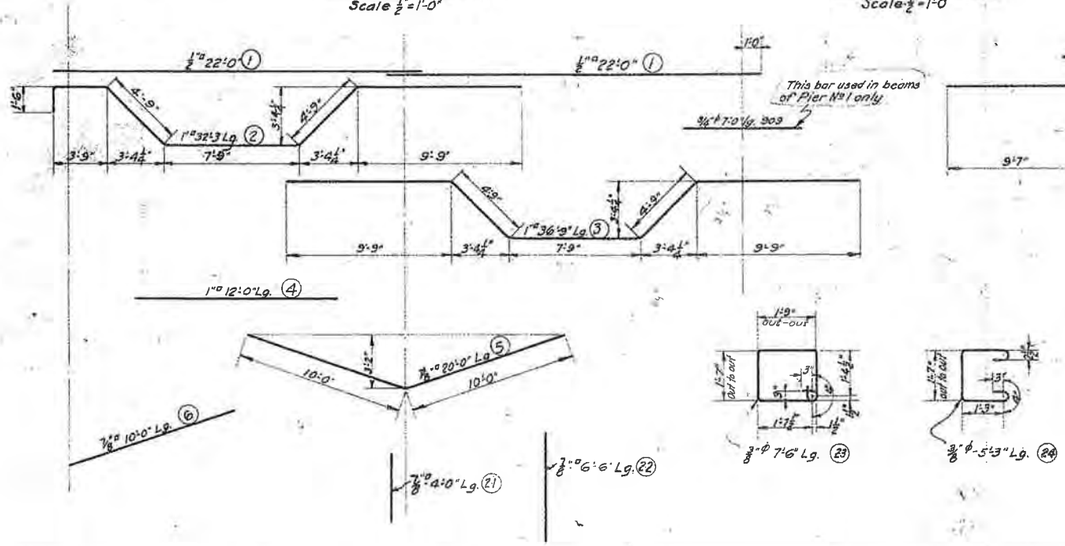


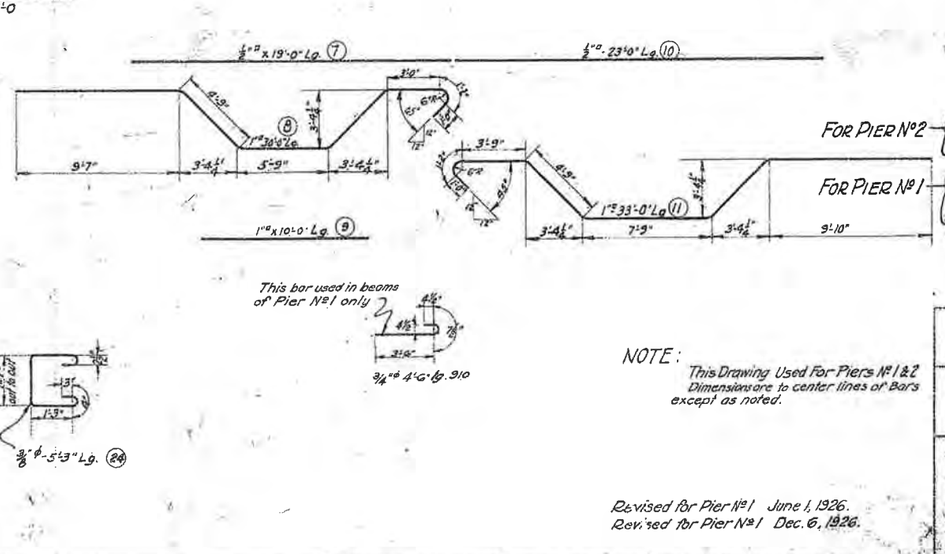
SECTION-FF
Scale $\frac{1}{2}$"=1'-0"



SECTION-GG
Scale $\frac{1}{2}$"=1'-0"
Typical Section Thru Pilasters Supporting Beams.

MARK	BAR		LENGTH BAR	
	FT.	IN.	FT.	IN.
12	5	2	13	6
13	5	0	13	3
14	4	10	12	9
15	4	8	12	6
16	4	4	11	9
17	4	1	11	3
18	3	9	10	6
19	3	5	10	0
20	3	4	9	9





REFERENCES:

FOR PIER N°2
- B-4-35 Key Plan of Floor Beams for Reinforcing
- B-4-23 Inshore Ends-Neat Lines of Concrete
- B-4-38 Special Beams at Corners-Reinforcing

FOR PIER N°1
- B-4-190 Key Plan of Floor Beams for Reinf.
- B-4-58 Inshore Ends-Neat Lines of Concrete
- B-4-195 Special Beams at Corners-Reinforcing
- B-4-197

NOTE:
This Drawing Used For Piers N°1 & 2
Dimensions are to center lines of Bars except as noted.

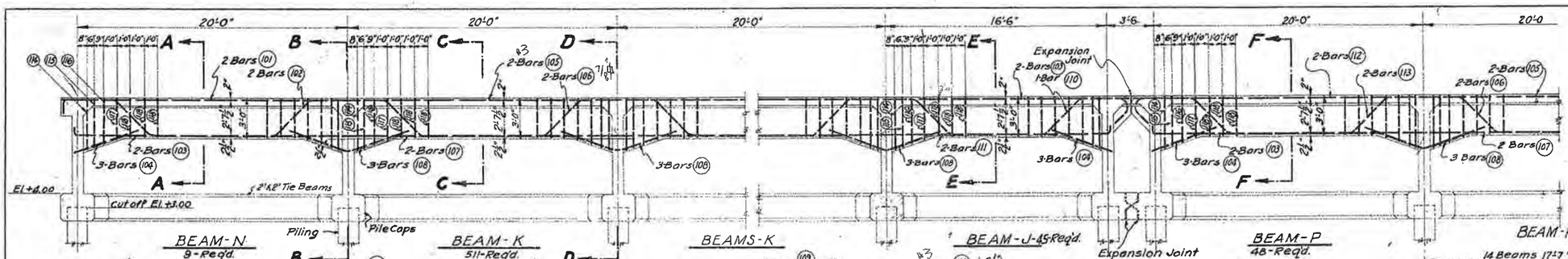
Revised for Pier N°1 June 1, 1926.
Revised for Pier N°1 Dec. 6, 1926.

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF
REINFORCING DETAILS
BEAMS L, M, H & G SUPPORTING R.R. TRACKS

SCALE: 1"=1'-0" & ½"=1'-0"
DATE: Oct. 15, 1925
RECOMMENDED: Arthur E. Davis, STATE DOCKS ENGINEER
APPROVED: CHAIRMAN
DRAWN BY Hemmond
TRACED BY
CHECKED BY

B-4-36



BEAM-N
9-Req'd.

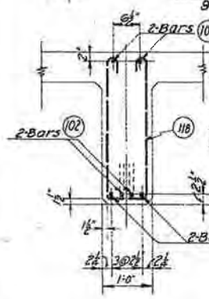
BEAM-K
5-11-Req'd.

BEAMS-K

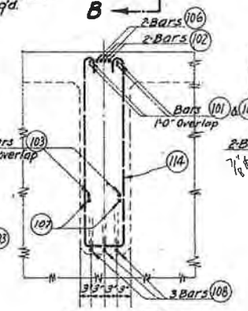
BEAM-J-45-Req'd.

BEAM-P
48-Req'd.

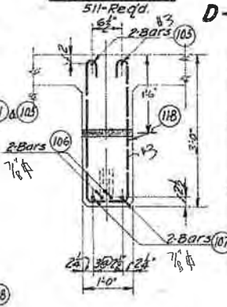
BEAM-K
14 Beams 17'-7" Span
14 Beams 18'-0" Span



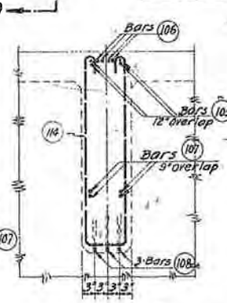
SECTION-AA
Scale 3/4"=1'-0"



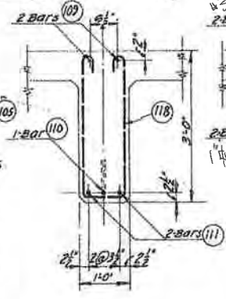
SECTION-BB
Scale 3/4"=1'-0"



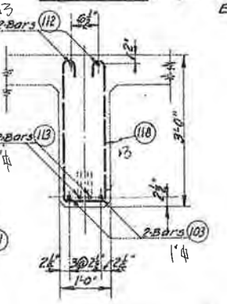
SECTION-CC
Scale 3/4"=1'-0"



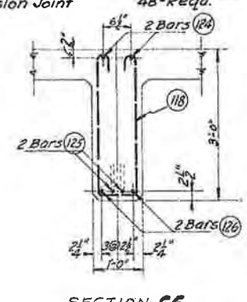
SECTION-DD
Scale 3/4"=1'-0"



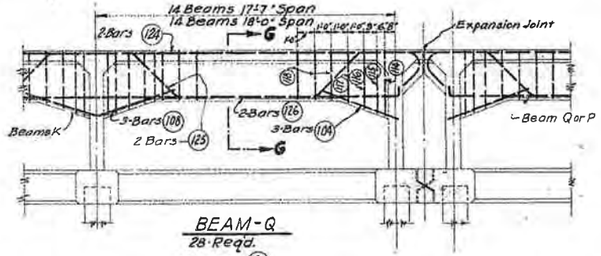
SECTION-EE
Scale 3/4"=1'-0"



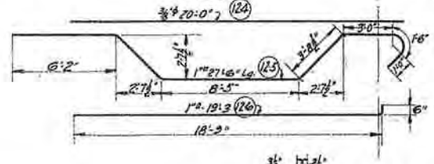
SECTION-FF
Scale 3/4"=1'-0"

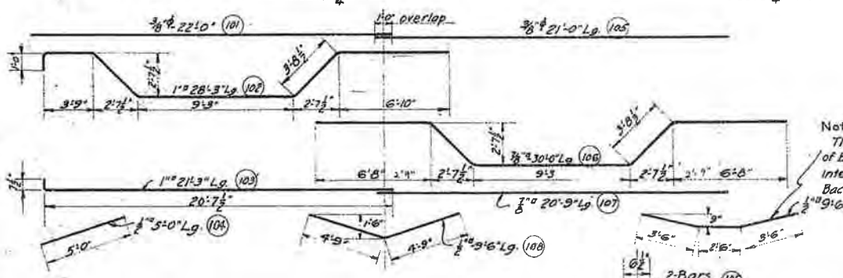


SECTION-GG
Scale 3/4"=1'-0"

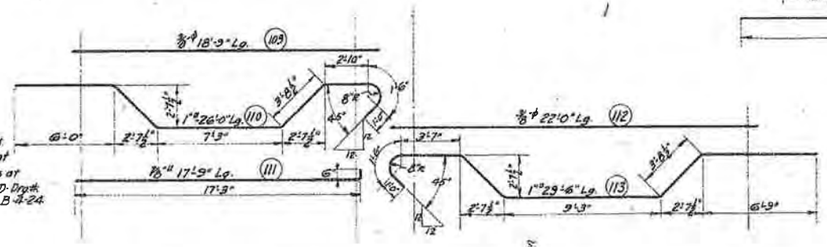


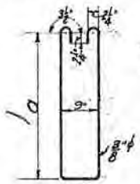
BEAM-Q
28-Req'd.



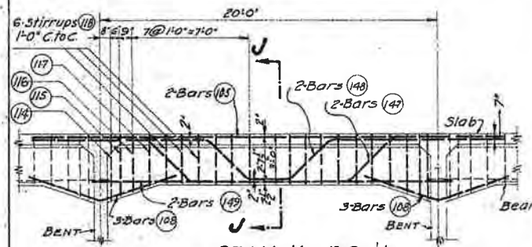


Note:
This Bar Used Instead of Bar (108) in Beams That Intersect With Pile Caps at Back of Wharf. See Sec: DD-Drg. # B-4-24.

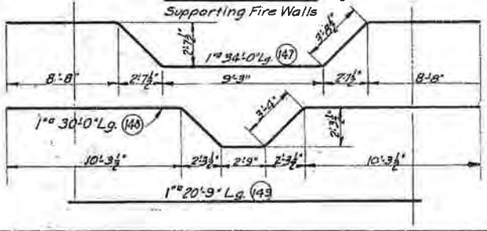


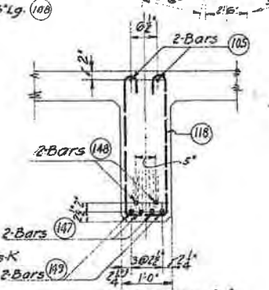


MARK	Ø	LENGTH FT.	LENGTH IN.
114	3'-7"	9'	0
115	3'-4 1/2"	8	6
116	3'-1 1/2"	8	0
117	2'-9 1/2"	7	9
118	2'-8"	7	9

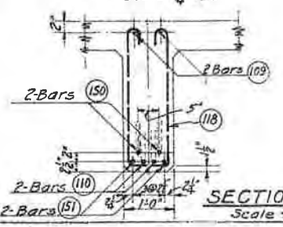


BEAM-K1 18-Req'd.
Supporting Fire Walls

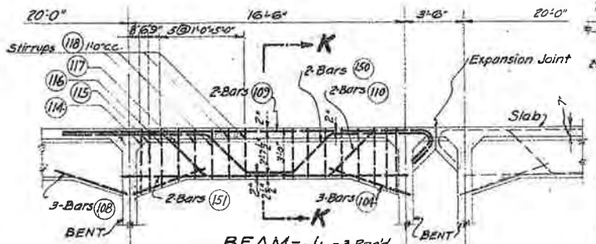




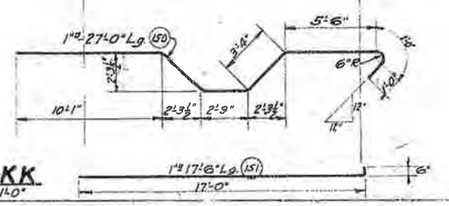
SECTION-JJ
Scale 3/4"=1'-0"

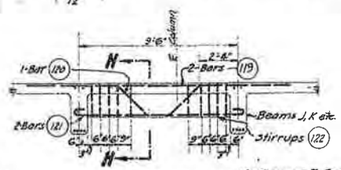


SECTION-KK
Scale 3/4"=1'-0"

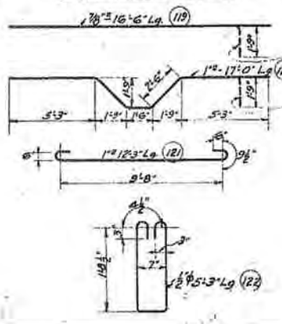


BEAM-J1 -3 Req'd.
Supporting Front Wall-North Side Pier

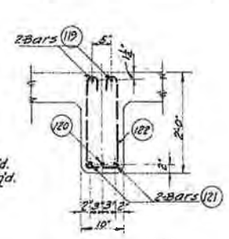




BEAMS-R & R1 (20-Beams R-Req'd. 1-Beam R1-Req'd.
Supporting Shed Columns.



For Beam R1 Bend Rods as Indicated By Dotted Lines



SECTION-HH
Scale 3/4"=1'-0"

REFERENCES:
B-4-35- Key Plan of Floor Beams
B-4-23- Inshore End of Wharf-Neat Lines of Concrete
B-4-38- Special Beams at Corners-Reinforcing

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
REINFORCING DETAILS
STANDARD BEAMS-N, J, J1, K, K1, P, R & R1

SCALE: 1/4 & 3/4"=1'-0"
DAT: Oct. 15, 1925
RECOMMENDED: Arthur C. Davis
DESIGNING ENGINEER.
APPROVED: CHAIRMAN.
DRAWN BY Hammond
TRACED BY "
CHECKED BY Asst. Draftsman

B-4-37

BEAM-A 1-Req'd.

BEAM-A1 1-Req'd.

BEAM-A2 1-Req'd.

BEAM-A3 1-Req'd.

BEAM-A4 1-Req'd.

BEAM-A5 1-Req'd.

BEAM-B 2-Req'd.

BEAM-B1 2-Req'd.

BEAM-B2 2-Req'd.

BEAM-C 2-Req'd.

BEAM-C1 2-Req'd.

BEAM C2. 2-Req'd.

BEAM-D 1-Req'd.

BEAM-D1 1-Req'd.

BEAM-D2 1-Req'd.

BEAM-E 2-Req'd.

BEAM-E1 1-Req'd

BEAM-E2 1-Req'd.

BEAM-E3 1-Req'd

BEAM-E4 1-Req'd.

BEAM-F 1-Req'd.

BEAM-F1 1-Req'd.

BEAM-F2 1-Req'd.

BEAM-F3 1-Req'd.

BEAM-F4 1-Req'd.

BEAM-F5 1-Req'd.

BEAM-S 2-Req'd.

BEAM-T 2-Req'd.

BEAM-T1 2-Req'd.

BEAM-T2 2-Req'd.

SECTION-AA

SECTION-BB

SECTION-CC

SECTION-DD

SECTION-EE

SECTION-FF

SECTION-GG

SECTION-HH

SECTION-JJ

SECTION-KK

SECTION-LL

SECTION-MM

SECTION-NN

SECTION-PP

SECTION-QQ

SECTION-RR

SECTION-SS

SECTION-TT

SECTION-UU

SECTION-VV

SECTION-WW

SECTION-XX

SECTION-A'A'

SECTION-B'B'

SECTION-C'C'

SECTION-D'D'

SECTION-E'E'

SECTION-F'F'

SECTION-G'G'

SECTION-H'H'

SECTION-J'J'

MARK	SIZE	"a"	"b"	"c"	LENGTH FT.	LENGTH IN.	USED IN BEAM
28	1"	2'-6"	7'-6"	3'-0"	30	0	A, F4
29	1"	2'-0"	7'-0"	8'-6"	28	6	A1
30	7/8"	1'-6"	3'-6"	8'-0"	24	0	A2 & F2
31	7/8"	1'-6"	2'-6"	8'-0"	23	0	A4
32	1"	2'-0"	5'-6"	8'-6"	27	0	F3
33	1"	3'-3"	9'-0"	9'-9"	33	0	F5

MARK	"d"	LENGTH FT.	LENGTH IN.	FOR BEAM
140	3'-9"	24	6	B2, C2, D2.
141	4'-9"	25	6	B1
142	6'-3"	27	0	B, D1, E2 & T2
143	7'-6"	28	3	C, C1, T1, E3 & S
144	5'-0"	29	5	C & D
145	11'-6"	32	3	E4

REFERENCES-

B-4-35-Key Plan of Floor Beams For Reinforcing
B-4-36-Beams Supporting R.R.Tracks-Reinforcing
B-4-37-Beams Supporting Deck - Reinforcing
B-4-24-South Corner-Neat Lines of Concrete
B-4-26-North Corner-Neat Lines of Concrete.

NOTES:

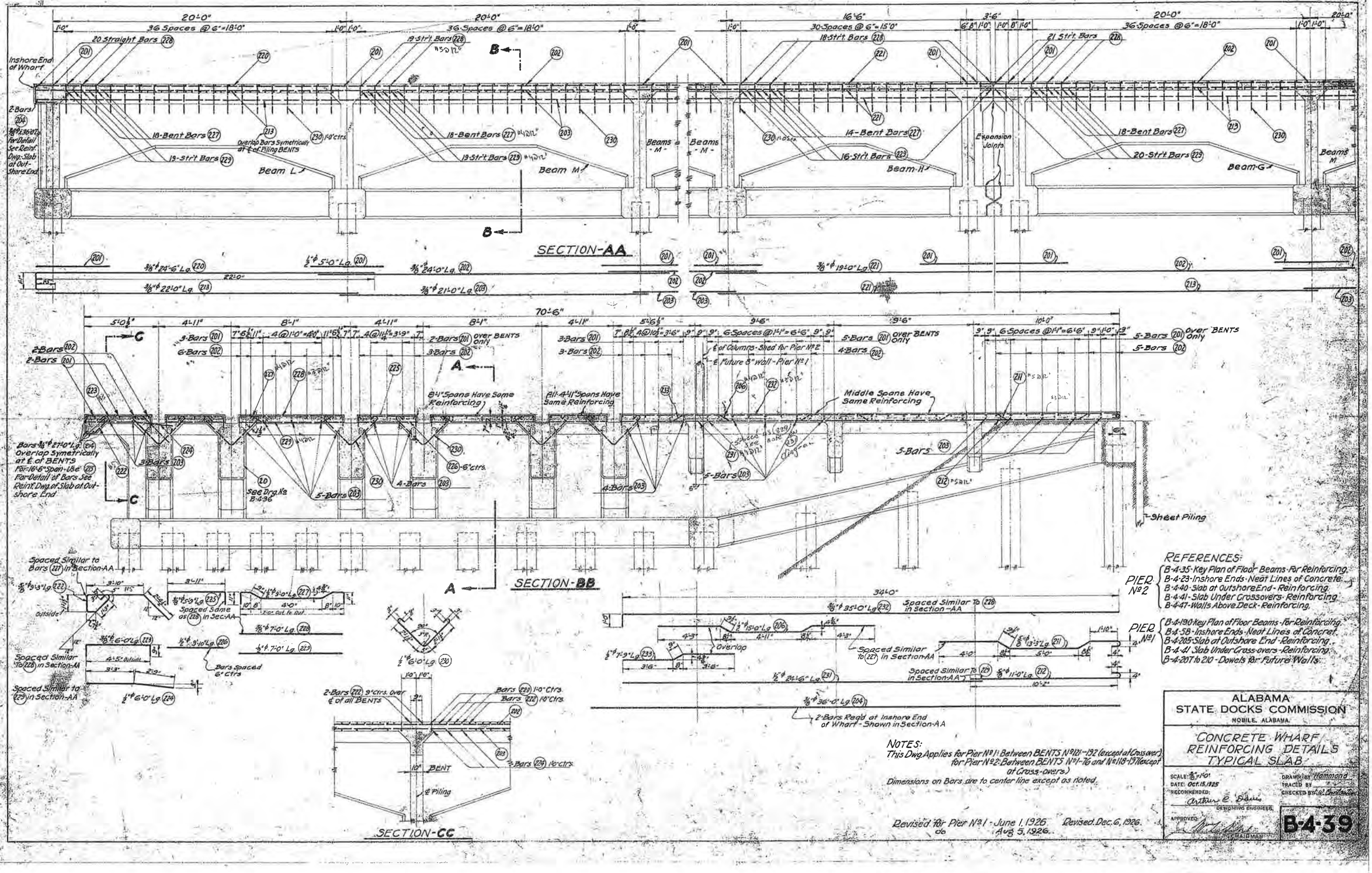
For Detail of Stirrups (12) To (20) See Std. Beam Drawing No B-4-36
For Detail of Bars (104) & (127) Also Stirrups (114) To (118) See Std. Beam Drg. No B-4-37

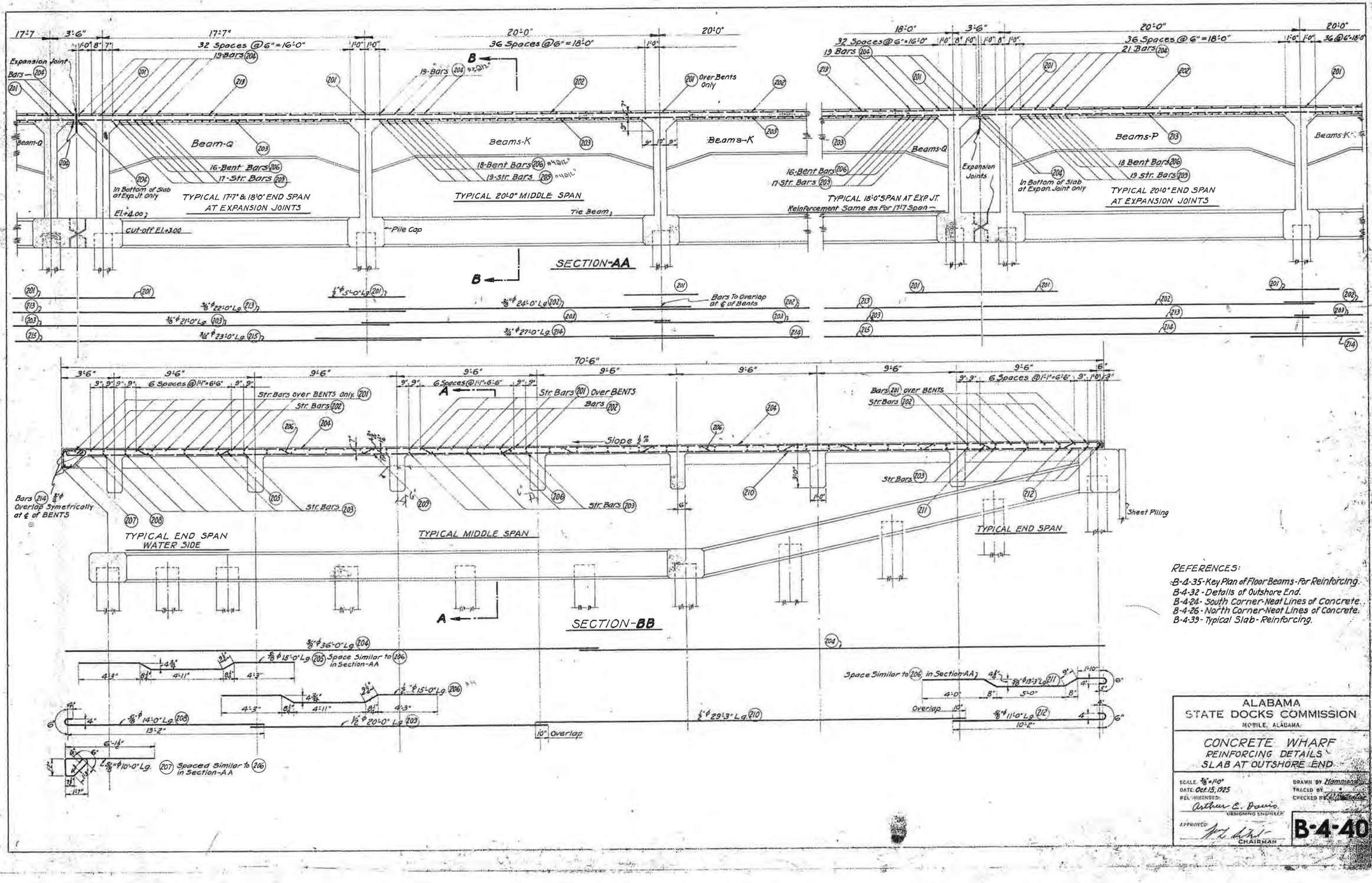
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
REINFORCING DETAILS
SPECIAL BEAMS AT CORNERS

SCALE: 1/2"=1'-0"
DATE: Oct. 15, 1925
RECOMMENDED: Arthur E. Davis, DESIGNING ENGINEER.
APPROVED: CHAIRMAN
DRAWN BY Hammond.
TRACED BY
CHECKED BY

B-4-38


20'-0"
36 Spaces @ 6"=18'-0"
16'-6"
30 Spaces @ 6"=15'-0"
3'-6"
20 Straight Bars 228
18 Str't Bars 228
21 Str't Bars 228
Inshore End of Wharf
2 Bars 204
3/8"ϕ 35'0" Lg For Detail See Reinf. Dwg: Slab at Out-shore End
18-Bent Bars 227
19-Str't Bars 229
Overlap Bars Symetrically at ℄ of Piling BENTS
10" ctrs
Beam L
Beam M
14-Bent Bars 227
16-Str't Bars 229
Beam H
Expansion Joints
20-Str't Bars 229
Beam G
Beams M
SECTION-AA
3/8"ϕ 24'-6" Lg 220
1/2"ϕ 5'-0" Lg 201
3/8"ϕ 24'-0" Lg 202
3/8"ϕ 19'-0" Lg 221
3/8"ϕ 22'0" Lg 213
3/8"ϕ 21'-0" Lg 203
22'-0"
70'-6"
5'-0½"
4'-11"
8'-1"
9'-6"
10'-0"
2 Bars 202
2 Bars 201
3 Bars 201
6 Bars 202
3 Bars 202
2 Bars 201 over BENTS only
3 Bars 201
3 Bars 202
5 Bars 201 over BENTS only
4 Bars 202
6 Spaces @ 11'-1" = 6'-6"
℄ of Columns - Shed for Pier № 2
℄ Future 8" Wall - Pier № 1
5 Bars 201 over BENTS only
5 Bars 202
@ 4'-11" Spans Have Same Reinforcing
All 4'-11" Spans Have Same Reinforcing
Middle Spans Have Same Reinforcing
Bars 3/8"ϕ 27'-0" Lg 214 Overlap Symetrically at ℄ of BENTS For 16'-6" Span - Use Bar Reinf. Dwg. of Slab at Out-shore End
See Drg № B-4-36
3 Bars 203
5 Bars 203
4 Bars 203
6"
Sheet Piling
SECTION-BB
Spaced Similar to Bars 227 in Section-AA
3/8"ϕ 5'-9" Lg 232
3'-11"
3'-10"
5"
11½"
12"
outside
3/8"ϕ 5'-9" Lg 235
Spaced Same as 228 in Sec-AA
10" 8"
4'-0"
7'-0" Out to Out
8" 10"
3/8"ϕ 7'-0" Lg 220
½"ϕ 7'-0" Lg 229
3/8"ϕ 6'-0" Lg 223
4'-5" Outside
3'-3"
2'-9"
½"ϕ 5'-10" Lg 226
Bars Spaced 6" ctrs
Spaced Similar to 228 in Section-AA
Spaced Similar to 229 in Section-AA
½"ϕ 6'-0" Lg 224
½"ϕ 6'-0" Lg 230
10" 10"
2 Bars 202 3" ctrs. over ℄ of all BENTS
Bars 223 10" Ctrs.
Bars 202 10" Ctrs.
10" BENT
℄ Piling
3 Bars 224 10" ctrs
SECTION-CC
34'-0"
3/8"ϕ 35'-0" Lg 232
Spaced Similar To 228 in Section-AA
3/8"ϕ 15'-0" Lg 206
4'-3"
8"
4'-11"
Overlap
Spaced Similar To 227 in Section-AA
3/8"ϕ 7'-9" Lg 233
3'6"
½"ϕ 24'-6" Lg 231
Spaced Similar To 229 in Section-AA
3/8"ϕ 13'-3" Lg 211
1'-10"
5'-0"
3/8"ϕ 11'-0" Lg 212
10'-2"
3/8"ϕ 36'-0" Lg 204
2 Bars Reqd at Inshore End of Wharf - Shown in Section-AA
REFERENCES:
PIER № 2
B-4-35 Key Plan of Floor Beams For Reinforcing.
B-4-23 Inshore Ends Neat Lines of Concrete.
B-4-40 Slab at Outshore End - Reinforcing.
B-4-41 Slab Under Crossovers Reinforcing.
B-4-47 Walls Above Deck - Reinforcing.
PIER № 1
B-4-190 Key Plan of Floor Beams For Reinforcing.
B-4-58 Inshore Ends Neat Lines of Concrete.
B-4-205 Slab at Outshore End - Reinforcing.
B-4-41 Slab Under Cross-overs - Reinforcing.
B-4-207 to 210 - Dowels for Future Walls.
NOTES:
This Dwg. Applies for Pier № 1: Between BENTS № 121-192 (except at Crossover)
for Pier № 2: Between BENTS № 1-76 and № 118-191 (except of Cross-overs.)
Dimensions on Bars are to center line except as noted.
Revised for Pier № 1 - June 1, 1926 Revised. Dec. 6, 1926.
do Aug 5, 1926.
ALABAMA STATE DOCKS COMMISSION
MOBILE, ALABAMA.
CONCRETE WHARF REINFORCING DETAILS TYPICAL SLAB
SCALE: ⅜"=1'0"
DATE: Oct. 15, 1925
RECOMMENDED:
Arthur E. Davis
DESIGNING ENGINEER.
APPROVED:
ALABAMA
DRAWN BY Hammond
TRACED BY
CHECKED BY W. Chatterton
B-4-39



REFERENCES:

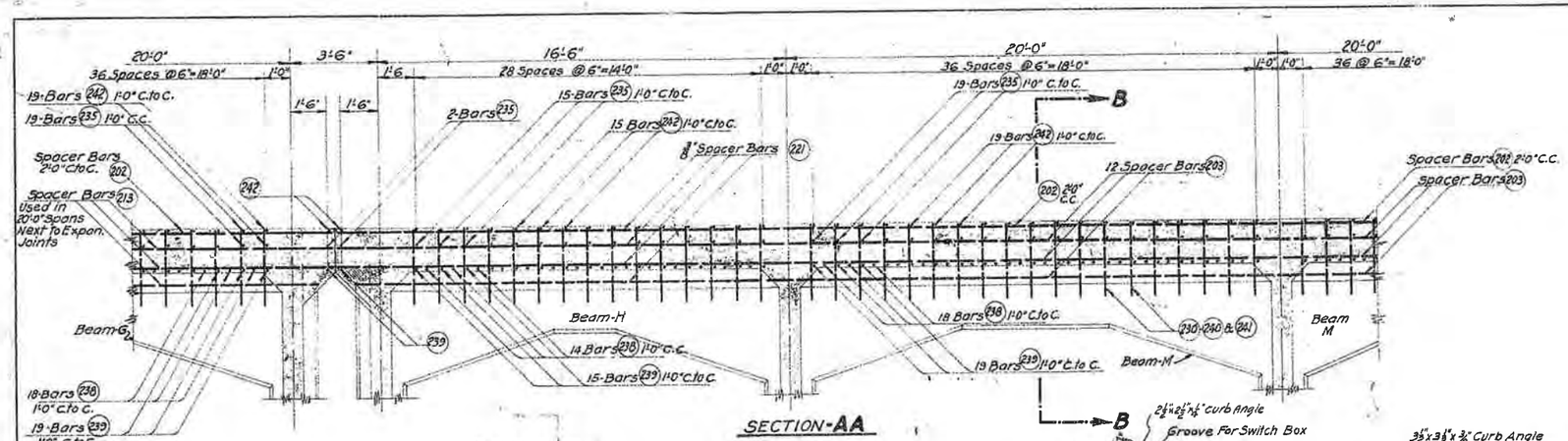
B-4-35-Key Plan of Floor Beams-For Reinforcing.
B-4-32-Details of Outshore End.
B-4-24-South Corner-Neat Lines of Concrete.
B-4-26-North Corner-Neat Lines of Concrete.
B-4-39-Typical Slab-Reinforcing.

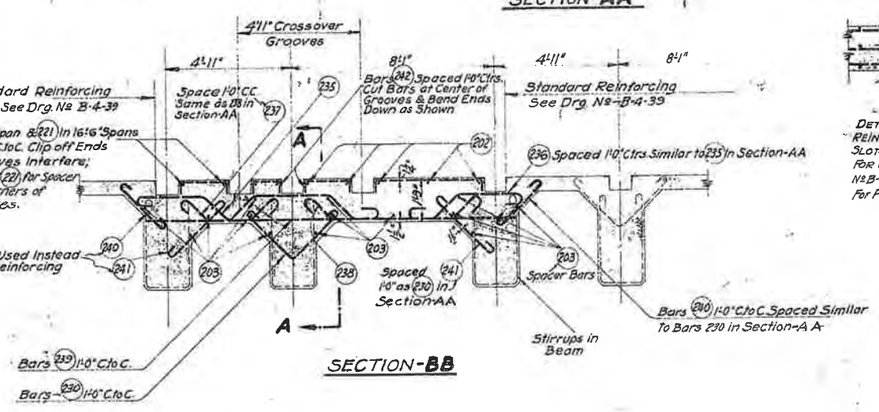
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

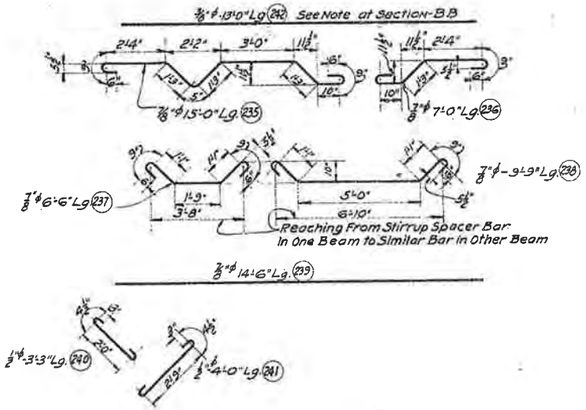
CONCRETE WHARF
REINFORCING DETAILS
SLAB AT OUTSHORE END

SCALE: 3/8"=1'-0"
DATE: Oct. 15, 1925
RECOMMENDED: Arthur E. Davis, DESIGNING ENGINEER
DRAWN BY Hamilton
TRACED BY
CHECKED BY
APPROVED: CHAIRMAN

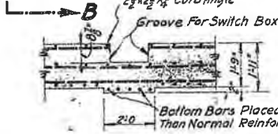
B-4-40



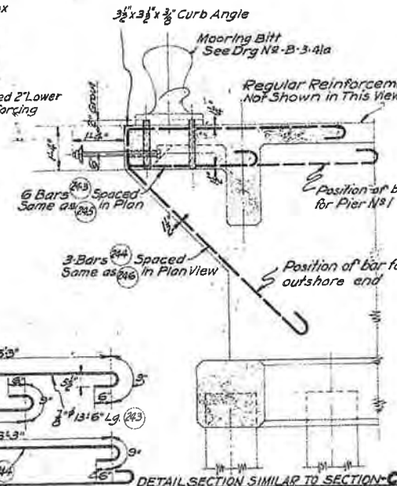


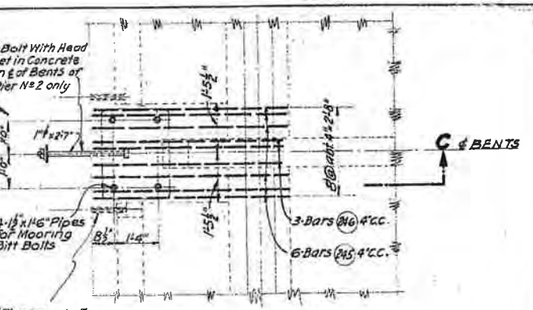


REINFORCING DETAILS OF SLAB AT CROSSOVERS
See Notes

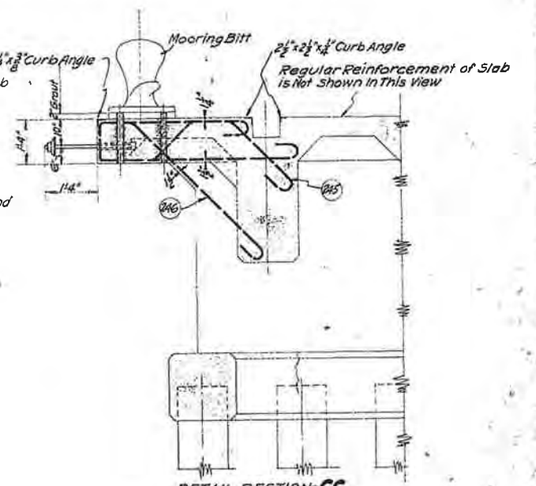


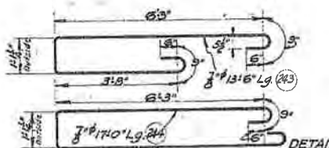
DETAIL SECTION SHOWING REINFORCING OF SLAB UNDER SLOTS FOR SWITCHES.
FOR LOCATION OF SLOTS SEE DRGS. No B-4-28 & B-4-29. For Pier No 2 only
For Pier No 1 See Drgs. No B-4-29 & B-4-189



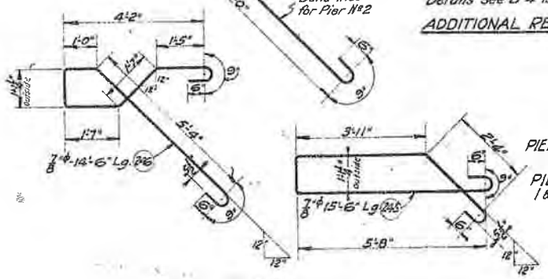


DETAIL PLAN
Showing Additional Reinforcing of Slab Supporting Mooring Bitts.
Scale 1/2"=1'-0"





DETAIL SECTION SIMILAR TO SECTION-CC
Typical Section Showing Special Reinforcement of Slab Supporting Mooring Bitt Located Between Bents No 91 to 115 Inclusive - For Pier No 2 Only.
For Pier No 1 - Mooring Bitts Located Between BENTS No 100 to 116 - Setting Details see B-4-192



ADDITIONAL REINFORCING OF SLAB UNDER MOORING BITTS

DETAIL SECTION-CC
Typical Section Showing Special Reinforcement of Slab Supporting Mooring Bitts Located Between Bents No 1 to No 80 & No 115-116 to 131, For Pier No 2 Only - Located Between BENTS No 72 to 93 & No 206 to 192 For Pier No 1 Only.

NOTES:
PIER No 2 — Reinforcement of Slab at Crossovers Between BENTS No 2 19 to 34 a, 46 to 61, 135 to 150 & 165 to 180.
PIER No 1 & 2 — Reinforcing Includes Two Spans 4'-11" & 8'-1" Together as Shown in Section-BB, or in Opposite Position as Indicated on Cross Over-General Layout - Reinforcing Similar For Both Positions.
For Details of Bars (202) (203) (213) (221) & (230) See Drg. No B-4-39
PIER No 1 — Cross-Overs are Located Between BENTS No 135 to 150 & No No 3 to 178
Dimensions on Bars are to center lines except as noted

REFERENCES:
FOR PIER No 2: B-4-35 Key Plan of Floor Beams-for Reinforcing; B-4-28 Cross Over-General Layout; B-4-39 - Typical Slab-Reinforcing.
FOR PIER No 1 & 2: B-4-29 Cross Over-Location of Anchor Bolts; B-3-41 a - Mooring Bitt Detail
FOR PIER No 1: B-4-190 Key Plan of Floor Beams-for Reinforcing; B-4-189 Cross Over-General Layout; B-4-187 & 188 - Location of Mooring Bits; B-4-192 Setting Details of Mooring Bitts

This Dwg. Revised-Jan. 9, 1926
Revised - June 1, 1926 - for Pier No 1
Revised Dec. 6, 1926 - for Pier No 1

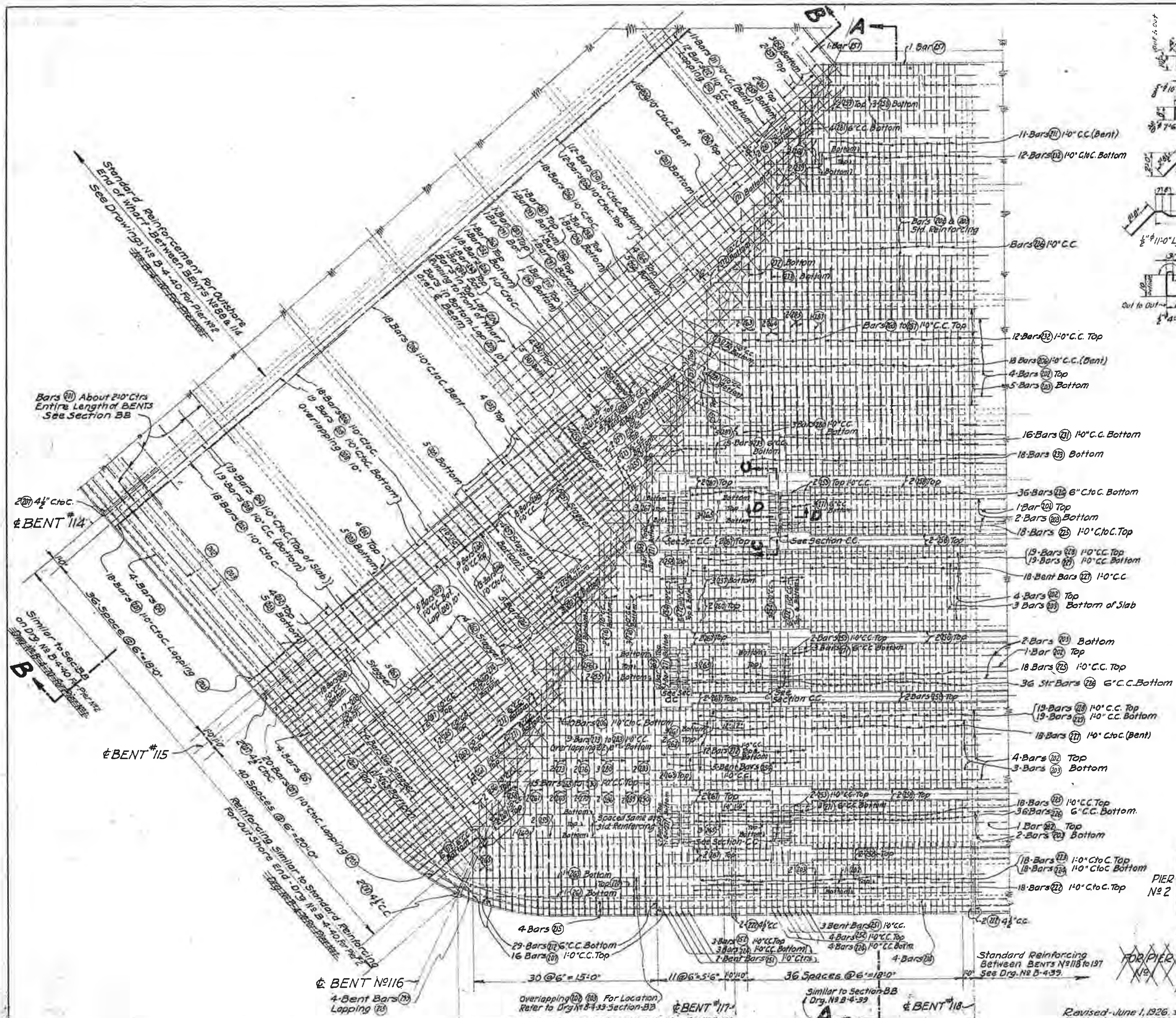
This Drawing Used for Piers No 1 & 2

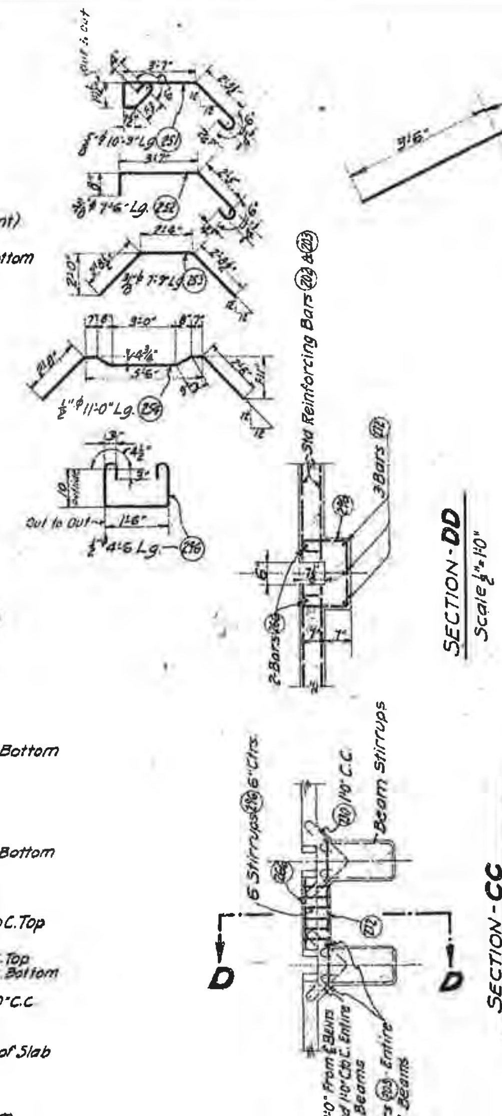
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

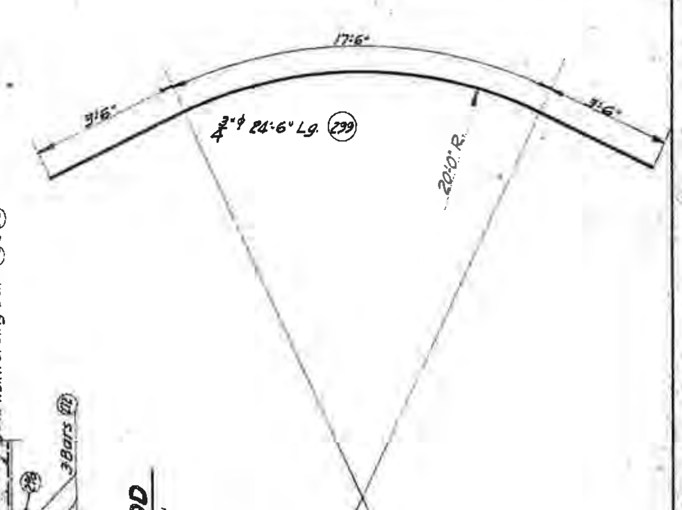
CONCRETE WHARF
REINFORCING DETAILS
SLAB UNDER CROSSOVERS & MOORING BITTS

SCALE: 3/8"=1'-0"
DATE: Oct. 15, 1925
RECOMMENDED: Arthur C. Baird, DESIGNING ENGINEER
APPROVED: CHAIRMAN
DRAWN BY Hammond
TRACED BY
CHECKED BY

B-4-41







⅜"φ Str. Bars						½"φ Str't Bar					
MARK	LENGTH FT.	IN.	MARK	LENGTH FT.	IN.	MARK	LENGTH FT.	IN.	MARK	LENGTH FT.	IN.
255	11	0	266	3	3	271	3	3	281	8	0
256	12	6	267	6	0	272	6	6	282	24	0
257	13	6	268	9	0	273	9	6	283	27	0
258	15	0	269	10	0	274	11	0	284	29	0
259	17	0	270	27	0	275	12	0	291	31	0
260	18	0	285	29	0	276	14	0	292	33	0
261	20	0	286	31	0	277	16	0	293	35	0
262	22	0	287	33	0	278	18	0	294	37	0
263	24	0	288	35	0	279	20	0	295	40	0
264	25	0	289	37	0	280	22	0	298	25	0
265	7	9	290	40	0						

REFERENCES-

FOR PIER № 2
- B-4-35 Key Plan of Floor Beams for Reinforcing.
- B-4-39 Typical Slab-Reinforcing.
- B-4-40 Slab at Outshore End-Reinforcing.
- B-4-47 Walls Above Deck-Reinforcing.
- B-4-26 North Corner-Neat Lines of Concrete.

~~FOR PIER № 1~~
- ~~B-4-66 Key Plan of Floor Beams for Reinforcing~~
- ~~B-4-39 Typical Slab-Reinforcing~~
- ~~B-4-70 Slab at Outshore End-Reinforcing~~
- ~~B-4-75 Walls Above Wharf-Reinforcing~~
- ~~B-4-61 North Corner-Neat Lines of Concrete~~

NOTES

PIER № 2
- Section AA on This Drawing Same as Section BB on Drawing № B-4-39.
- Section-BB on This Drawing Same as Section-BB on Drawing № B-4-40-Except as Shown.
- Short Bars (201) To Be Placed in Top of Slab Over all BENTS, Entire Length, About 2'0" Ctrs. as Shown in Sections-BB Drgs. № B-4-39 & № B-4-40.
- For Details of Bars (201) to (214) See Drgs. № B-4-39 & B-4-40.

~~FOR PIER № 1~~
- ~~Section AA on This Drawing Same as Section-BB on Drawing № B-4-39~~
- ~~Section-BB on this Drawing Same as Section-BB on Drg. № B-4-70~~
- ~~Short Bars (201) to be Placed in Top of Slab Over All BENTS, Entire Length, About 2'0" Ctrs. as Shown in AA & BB-~~
- ~~For Details of Bars (201) to (214) See Drgs. № B-4-39 & B-4-70.~~

Revised-June 1, 1926. ~~For Pier № 1~~
Revised-June 29, 1926 ~~№ 2~~

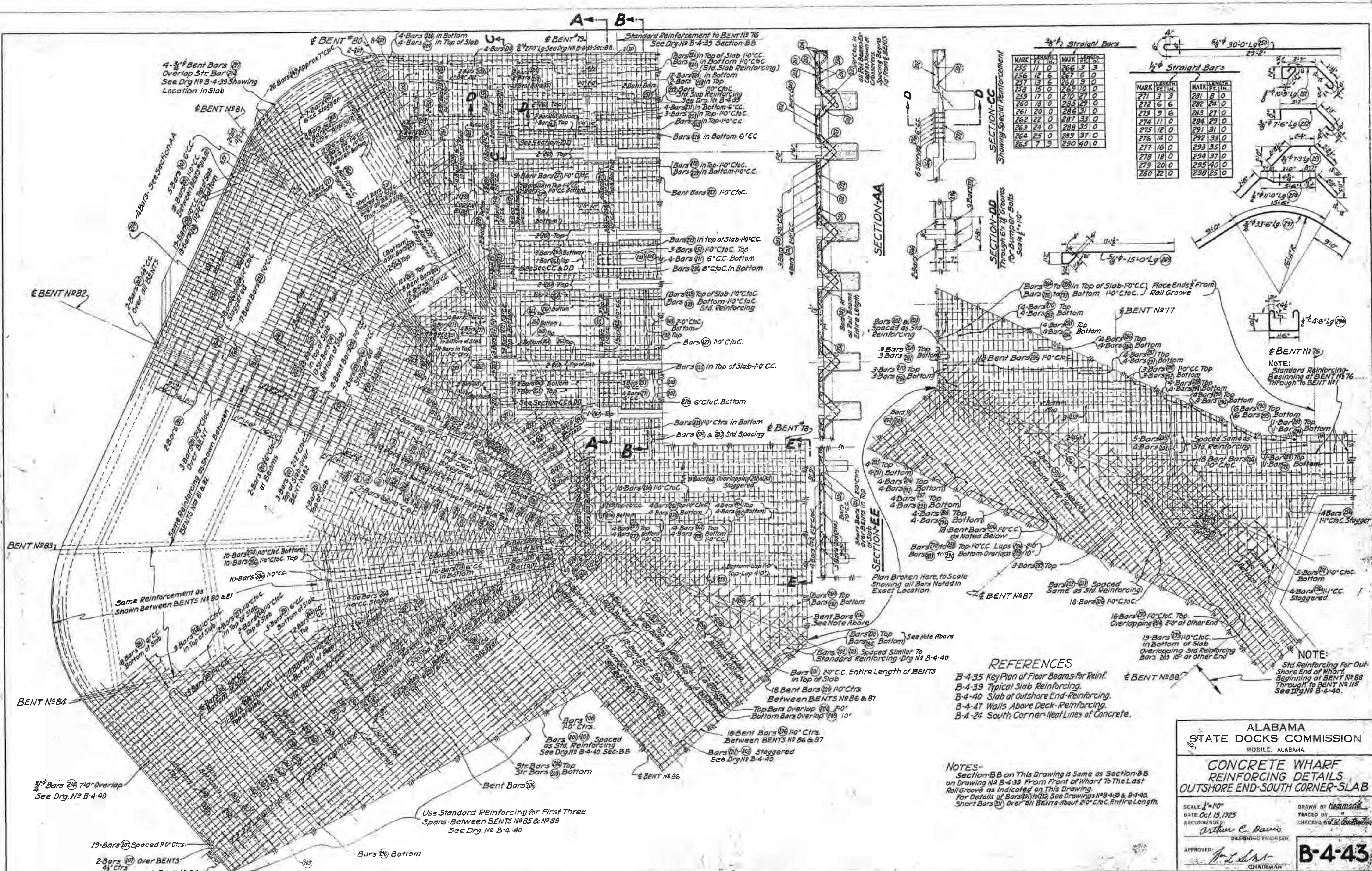
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF
REINFORCING DETAILS
OUTSHORE END-NORTH CORNER-SLAB

SCALE: ⅛" = 1'0"
DATE: Oct. 15, 1925
RECOMMENDED: Arthur C. Davis
DESIGNING ENGINEER
APPROVED: [signature]
CHAIRMAN

DRAWN BY Hammond
TRACED BY "
CHECKED BY F. U. Constantine

B-4-42



3/8" φ Straight Bars

MARK	LENGTH FT.	LENGTH IN.	MARK	LENGTH FT.	LENGTH IN.
255	11	0	266	3	3
256	12	6	267	6	0
257	13	6	268	9	0
258	15	0	269	10	0
259	17	0	270	27	0
260	18	0	285	29	0
261	20	0	286	31	0
262	22	0	287	33	0
263	24	0	288	35	0
264	25	0	289	37	0
265	7	9	290	40	0

½" φ Straight Bars

MARK	LENGTH FT.	LENGTH IN.	MARK	LENGTH FT.	LENGTH IN.
271	3	3	281	8	0
272	6	6	282	24	0
273	9	6	283	27	0
274	11	0	284	29	0
275	12	0	291	31	0
276	14	0	292	33	0
277	16	0	293	35	0
278	18	0	294	37	0
279	20	0	295	40	0
280	22	0	298	25	0

REFERENCES

B-4-35 Key Plan of Floor Beams For Reinf.
B-4-39 Typical Slab Reinforcing.
B-4-40 Slab at Outshore End-Reinforcing.
B-4-47 Walls Above Deck-Reinforcing.
B-4-24 South Corner-Neat Lines of Concrete.

NOTES-

Section-BB on This Drawing is Same as Section-BB on Drawing № B-4-39 From Front of Wharf To The Last Rail Groove as Indicated on This Drawing.

For Details of Bars 201 to 213 See Drawings № B-4-39 & B-4-40.

Short Bars 201 Over all BENTS-About 2'0" C.to C. Entire Length.

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF
REINFORCING DETAILS
OUTSHORE END-SOUTH CORNER-SLAB

SCALE: ¼"=1'0"
DATE: Oct. 15, 1925
RECOMMENDED: Arthur C. Davis
DESIGNING ENGINEER
APPROVED: [signature]
CHAIRMAN
DRAWN BY Hammond
TRACED BY "
CHECKED BY F.W. [signature]

B-4-43

Inshore End of Wharf

SECTION AA

SECTION BB

SECTION DD

Token at End of Piling Caps

TYPICAL SECTION PLAN CC OF EXP JOINT REINFORCING

SECTION THRU WHARF AT OUTSHORE END OF PIER

Standard Bents Nos. 88 to 114 Inclusive At Outshore End of Wharf.

Section Thru Beams Between BENTS Nos 104-105 & 112 & 113 only Showing 2 Additional Bars

Section Detail at Center Tie Beam-BENTS Nos 1, 2, 196 & 197.

Scale ¼"=1'0"

Section-Showing Details of Corners of BENTS No 1 & 197. Also Front End of BENTS No 2 & 196

See Plan — Drg. No B-4-23

Bent Portion to Lie Horizontally in Tie Beam

Detail of Hooks

Hoops 928 @ 2'0" Ctrs.

For 20'0" Span-Use Bars 902

For 16'6" Span-Use Bars 903

For 17'7" & 18'0" Span-Use 904

See Section A A

REFERENCES

B-4-35 Key Plan of Floor Beams

B-4-45 Bents-Outshore End-North Corner

B-4-46 Bents-Outshore End-South Corner

Revised Jan. 9, 1926

MARK	A Pcs	A Ins.	A Ft.	LENGTH Ft.	LENGTH Ins.
329	2	6	7	1	0
330	2	8	7	1	3
331	2	10	7	1	6
332	3	0	7	1	9
333	3	3	8	2	3
334	3	6	8	2	9
335	3	8	9	2	3
336	4	0	9	2	9
337	4	3	10	3	3
338	4	5	10	3	9
339	4	8	11	3	3
340	4	10	11	3	9
341	5	0	12	4	0
342	5	3	12	4	6
343	5	6	13	4	0
344	5	8	13	4	3
345	5	11	13	4	9
346	6	3	14	5	6
347	6	5	14	5	9
348	6	7	15	6	0
349	6	10	15	6	6
350	7	1	16	7	0
351	7	4	16	7	6
352	7	7	17	8	0
353	7	10	17	8	6

MARK	A	B	LENGTH Ft.	LENGTH Ins.
354	2'9"	6'9"	16	3
355	2'3"	7'3"	13	9
356	2'3"	8'3"	11	3

ALABAMA STATE DOCKS COMMISSION

MOBILE, ALABAMA.

CONCRETE WHARF REINFORCING DETAILS STANDARD BENTS

SCALE: ¾" & ¼"=1'0"

DATE: Oct 15, 1925.

RECOMMENDED: Arthur C. Ross, ENGINEER.

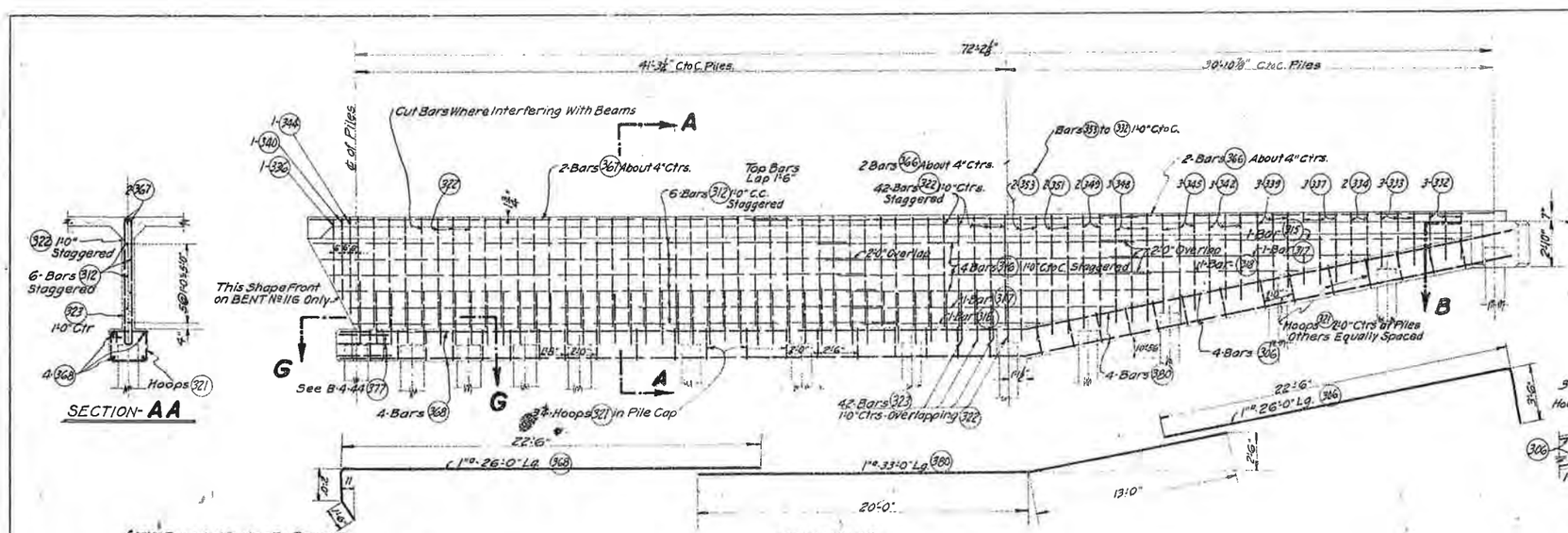
APPROVED: CHAIRMAN.

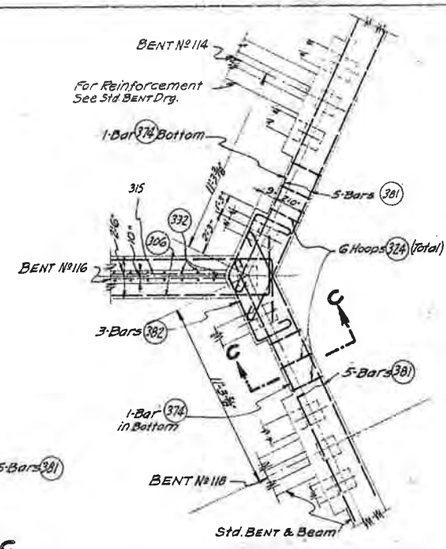
DRAWN BY Hammond

TRACED BY

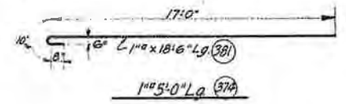
CHECKED BY

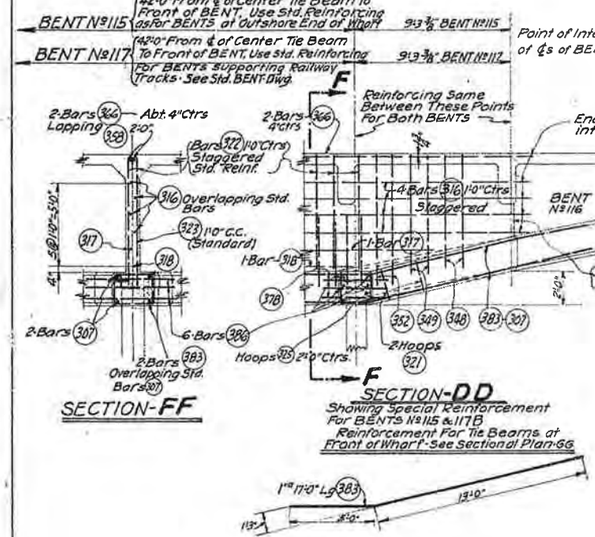
B-4-44

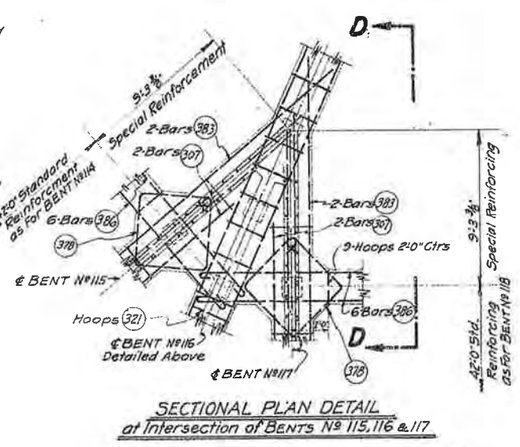


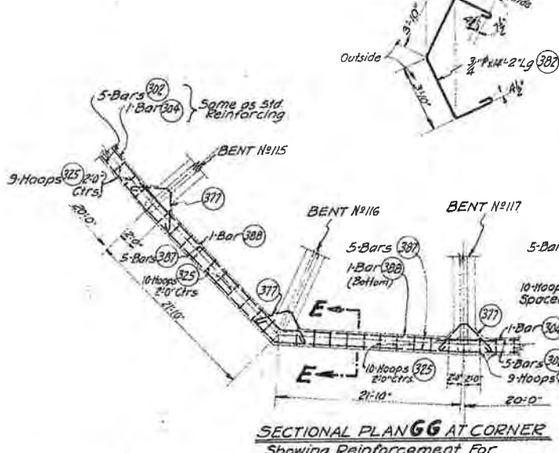


DETAIL SECTION BB
Showing Reinforcement of Beams at Back End of BENT







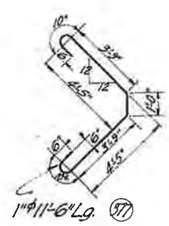


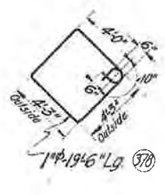
REFERENCES:

FOR PIER No 2
- B-4-35 - Key Plan of Floor Beams
- B-4-44 - Standard Bents - Reinforcing
- B-4-46 - Bents at Outshore End - South Corner
- B-4-27 - Outshore End-North Corner-Neat Lines of Concrete.

FOR PIER No 1
- B-4-66 Key Plan of Floor Beams For Reinf.
- B-4-72 & 73 Standard BENTS - Reinforcing.
- B-4-74 BENTS at Outshore End - South Corner
- B-4-61 - Outshore End-North Corner-Neat Lines of Concrete

NOTE
See Sections A,A, and B,B on dwg B-4-43 for additional reinforcing in bent 117B not shown in Sections FF and DD on this sheet.





NOTES -
This Drawing Shows Reinforcing For BENTS No 115, 116 & 117B. Bars Numbered From 301 to 388 Detailed on Drg No B-4-44 For Pier No 2 Only. Bars 391 to 398 Detailed on Dwg No B-4-72 For Pier No 1

Dimensions on Bars are to center lines except as noted.

Revised for Pier No 1 June 1, 1926

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF REINFORCING DETAILS OUTSHORE END-NORTH CORNER-BENTS

SCALE: 3/8" & 1/2" = 1'-0"
DATE: Oct. 15, 1925
RECOMMENDED: Wilbur E. Davis, ENGINEERING ENGINEER
APPROVED: CHAIRMAN
DRAWN BY Hammond
TRACED BY
CHECKED BY

B-4-45

SECTION-AA

BENT No 82
Intersecting BENTS & Beams Not Shown

Reinforcing For This Beam See Sectional Plan-GG

Hoops 321 Spaced Equally Between Piling

Bent Portion to Lie Horizontally in Beam

Bent Portion to Lie Horiz. in Beams

DETAIL SHOWING REINFORCING OF BENTS No 79 & 85 EXTENDING TO BENT No 82

SECTION-BB
Scale ½"=1'0"

SECTION-CC
Scale ½"=1'0"

SECTION-DD
Scale ½"=1'0"

BENTS No 81 & 83
Use Same Reinforcing For BENTS No 80 & 84

SECTION-EE
Reinforcing For Short Beam at End of BENT No 82

SECTION-FF

SECTION-GG OF CORNER TIE BEAMS AT EL.+4.00
SHOWING SPECIAL REINFORCEMENT
Scale ½"=1'0"

SECTION-HH

REINFORCING FOR BENTS No 78 & No 86

REINFORCEMENT FOR BENTS No 77 & 87

REFERENCES
B-4-35 Key Plan of Floor Beams for Reinforcing.
B-4-44 Standard Bents-Reinforcing.
B-4-45 Bents at Outshore End-North Corner.
B-4-25 Outshore End-South Corner-Neat Lines Concrete

NOTES-
This Drawing Shows Reinforcement For Special BENTS No 77 to 87 Inclusive and Adjoining Tie Beams.
For Details of Bars Numbered From 901 to 968 See Drg of Standard BENTS B-4-44

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
REINFORCING DETAILS
OUTSHORE END-SOUTH CORNER-BENTS

SCALE: ⅛ & ½"=1'0"
DATE: Oct 15, 1925
RECOMMENDED: Arthur E. Davis DESIGNING ENGINEER
APPROVED: CHAIRMAN

DRAWN BY Hammond
TRACED BY "
CHECKED BY W.W. Brooks Jr.

B-4-46

Regular Pilaster Reinforcing Concrete to be Poured With Future Fire Wall

28'-6"

BENT

Anchor Bolts 13½" Ctrs.

(404) 8" Ctrs.

53 Spaces @ 6" = 26'-6"

Edge of Slab

B-Bars (401)

31-Bars (400) 6" C to C. Staggered

Outlines of Future Fire Walls & Pilasters

20'-0" Ctrs. Bldg. Cols.

36 Spaces @ 6" = 18'-0"

Regular Reinforcing For Pilasters Set in Slab-Concrete Poured in Future With Fire Walls

4-Bars (408) 8" Ctrs.

Front Edge of Wharf 42'-0"

SECTIONAL PLAN AT LOCATION OF FUTURE FIRE WALLS

Showing Arrangement of Bars To Be Set in Slab-For Locations See General Plan-Drawings Nº B-4-19 & B-4-20

Scale ⅜"=1'0"

SECTION-AA

SECTION-BB

Thread For 1" Hex. Nut

Top of Concrete Pilasters

Anchor Bolt 4'-3" Lg. 352 Req'd.

SECTION-CC

SECTION-DD

Scale ⅜"=1'0"

4-Bars (404) 8" Ctrs.

2-Anchor Bolts

6 Cols.

Expansion Joint of Slab & Wall

Tie Bars to Extend into Pilasters Except at Expan. Joints

4-Bars (404) 8" C to C.

Anchor Bolts 13½" Ctrs

4-Bars (406) Extending Down into BENTS

6" Wall & Pilaster

4-Bars (405) in Corners

(4-Hoops (402) in Pilasters (Regular) Space Same as (412) in Section DD

4-Stirrups (402) in Pilasters at Expan. Joints

36 Spaces @ 6" = 18'-0"

20'-0" Shed Column Ctrs.

To Front Edge of Wharf 42'-0"

SECTIONAL PLAN

Showing Reinforcing For 6" Walls & Pilasters-Both Expansion Joint & Regular Type Pilasters.

Scale ⅜"=1'0"

Anchor Bolts

Column Footing Base (Future) 1" Grouting El +15.71

2-Bars (408) This Side of Expan. Jt. Only Not Set in Slab

Bars (407) 6" C to C. Staggered

45'-6" Height of Walls

Height of Bars for Pilasters

45'-6" to Top of Pilaster

4-Bars (406)

4-Bars (405)

4-Bars (408)

¾" Expansion Joint

BENT

3'-6" Ctrs BENTS

SECTION HH

Tie Bars (410) in Wall at Exp. Joint Only - For Other 20 Ft. Walls Use Bars (411)

SECTION-EE

Scale ⅜"=1'0"

℄ Columns

Tie Bars-Staggered

(401) 6" C to C. Staggered

Front of Wall

Insert Vertical Bars in Slab for Future Pilaster Use Same Bars as for Corner Pilaster "B"

Inshore End of Concrete Wharf

Place 5 Bars (402) in This Pilaster Only With Ends Extending 6'-0" Outside. Space Similar to Horiz. Tie Bars For Future Wall

Insert Bars in Slab For Future Front Wall-Outline Shown By Dotted Lines-See Sec. GG

℄ Shed Cols

42'-0" To Front of Wharf

Bars (401) 6" C to C. Staggered

Slab

SECTION-FF

Scale ⅜"=1'0"

SECTION-GG

Bars (400) 6" C to C. Staggered For Future 9" Walls

Regular Reinforcing Thru Tailshore End of Wharf (See Plan of Inshore End)

Use Tie Bars (412) in Walls

Use Tie Bars (413) in Wall

Use Tie Bars (414) in Walls

Edge of Slab

Expansion Joint Regular Construction. Cut End of Tie Bars as in Section-DD

These Two Pilasters of Regular Construction Except Vertical Bars (418) Re-Used Instead of (405) (406)

Insert Bars (401) in Slab 6" C.C. Staggered For Future Wall-See Section FF

Place 5 Bars (402) in This Pilaster Only With Ends Extending 3'-0" Outside. Space Bars Similar To Horiz. Tie Bars-For Future Wall

FOR SHED Nº 2 Only-Wall End With Regular Pilaster Here. Except Vertical Bars (418) Used Instead of (405) & (406)

Use Tie Bars (414) in Wall

Corner Pilasters "A"

Corner Pilaster "B"

B-Pilasters of Regular Construction Except Vertical Bars (418) To Be Used Instead of Bars (405) (406)

NOTE-

For Locations of Shed Column Centers-See Special Drawing of Column Centers at Outshore End of Wharf. Drg. Nº B-4-32

PLAN

SHOWING 6" WALL & PILASTERS for SHED Nº 1

North Corner (Shed Nº 2) Same Except Where Shown & Noted (Outshoe End Only)

Scale 1"=40'-0"

Set Reinforcing as For Corner Pilaster "B" For Future Pilaster But Opposite Hand

℄ Cols. Front End of Shed

6" Walls & Regular Pilasters End at ℄ of Bent Nº 192.0

Insert Bars in Slab For Future Front Wall-Outline Shown Dotted-See Section GG

℄ Bent Nº 194

Set Bars in Slab For Future Pilaster "C"-See Detail

(Regular Expan. Jt. Pilaster Included in This Contact

℄ Shed Cols

Walls & Pilasters of Regular Construction Through to Inshore End

Corner Pilaster "B"

PLAN

SHOWING 6" WALLS & PILASTERS FOR SHED Nº 2

Scale 1"=40'-0"

DETAILS OF CORNER PILASTERS

Scale ⅜"=1'0"

CORNER PILASTER A Opposite Hand

Anchor Bolts

℄ Corner Pilasters

9" Future Front Wall

Bars (400) 6" Ctrs. Staggered

4-Hoops (417) Spaced Same as Hoops in Sec. DD

8-Bars (418)

Bars (401) Set Into Slab for Future 6" Wall. Up to Expansion Joint Only See Section FF

FUTURE CORNER PILASTER "C"

Pilasters 4'-5" High Same as Shown in Sec. DD

CORNER PILASTERS "B"

CORNER PILASTER A

4 Hoops (416) Spaced as Hoops in Sec. DD

9-Bars (418)

4 Hoops (416) Spaced Same as Hoops in Section-DD

8-Bars (418) Vertical

Anchor Bolts

NOTES-

Special Reinforcing Bars (119) Used in Slab Under Pilasters at BENTS Nº 93, 94, 108, 109, 110 & 111-Also Details of Interior Column Footings See Drawing Nº B-4-32.

Revised Jan. 9, 1926

Anchor Bolts For Shed Columns

Front

DIMENSIONS OF REGULAR PILASTERS

REFERENCES:

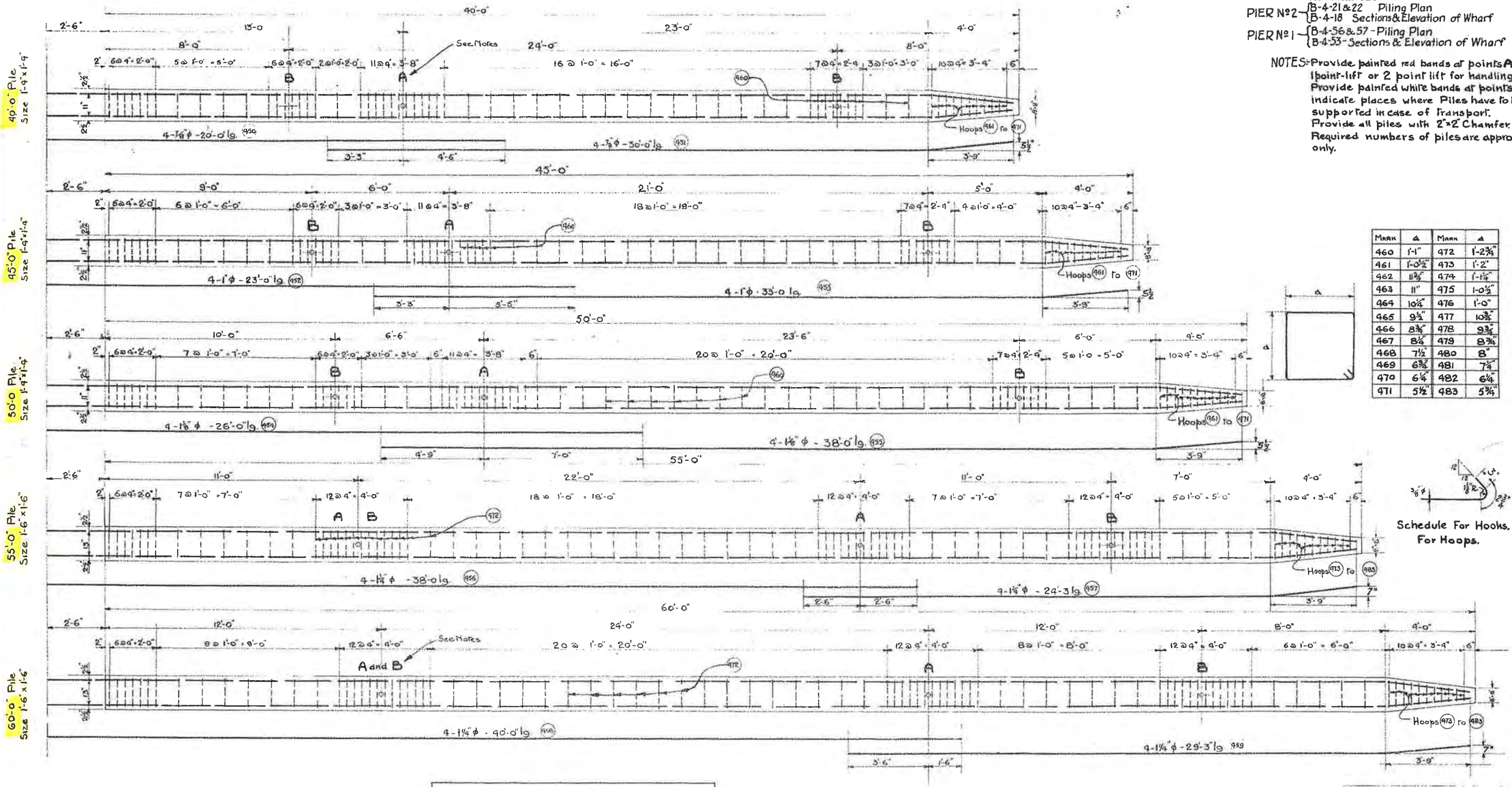
B-4-19 & B-4-20 General Arrgt. of Wharf.
B-4-35 Key Plan of Floor Beams For Reinforcing
B-4-32 Details of Outshore End of Wharf.

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF REINFORCING DETAILS WALLS ABOVE WHARF

SCALE: ⅜" & ¾"=1'0"
DATE: Oct. 15, 1925
RECOMMENDED: Arthur C. Davis, DESIGNING ENGINEER
APPROVED: CHAIRMAN
DRAWN BY Hammond
TRACED BY "
CHECKED BY W. H. Custardine

B-4-47



Mark	a	Mark	a
460	1'-1"	472	1'-2¾"
461	1'-0½"	473	1'-2"
462	11⅜"	474	1'-1⅛"
463	11"	475	1'-0½"
464	10¼"	476	1'-0"
465	9½"	477	10⅜"
466	8¾"	478	9⅜"
467	8⅛"	479	8¾"
468	7½"	480	8"
469	6⅞"	481	7⅛"
470	6¼"	482	6¼"
471	5½"	483	5⅜"

NUMBER OF PILES REQUIRED					
LENGTH	60'-0"	55'-0"	50'-0"	45'-0"	40'-0"
SIZE	1'-6"x1'-6"	1'-6"x1'-6"	1'-4"x1'-4"	1'-4"x1'-4"	1'-4"x1'-4"
PIER №1					
PIER №2	883	340	336	750	1123

REFERENCES
PIER №2 — B-4-21 & 22 Piling Plan; B-4-18 Sections & Elevation of Wharf
PIER №1 — B-4-56 & 57 - Piling Plan; B-4-53 - Sections & Elevation of Wharf

NOTES: Provide painted red bands at points A to indicate 1 point-lift or 2 point lift for handling lines. Provide painted white bands at points B to indicate places where Piles have to be supported in case of transport. Provide all piles with 2"x2" Chamfer. Required numbers of piles are approximate only.

Revised Jan. 9, 1926.

ALABAMA STATE DOCKS COMMISSION
MOBILE, ALA.

CONCRETE WHARF
DETAILS OF CONCRETE PILES.

SCALE ½"=1'-0" DATE Oct 15, 1925
DESIGNED BY L.H.C. TRACED BY DAD
DRAWN BY L.H.C. CHECKED BY L.H.C.
DEPARTMENT ENGINEER Arthur C. Davis
CHAIRMAN

B-4-48

BILL OF MATERIAL FOR DWG. Nº B-4-36

Beam	Nº of Beams	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Tot. Wt.	Remarks
		4	5	1'-"	12	0	5760	0	3.4	19584	
		6	5	⅞"□	10	0	4800	0	2.6	12480	
		10	2	½"□	23	0	4416	0	0.85	3754	
		11	3	1'-"	33	0	9504	0	3.4	32314	
		12	2	½"□	13	6	2592	0	0.85		
		13	2	"	13	3	2544	0	"		
		14	2	"	12	9	2448	0	"		
		15	2	"	12	6	2400	0	"		
G	96	16	2	"	11	9	2256	0	"	17177	
		17	2	"	11	3	2160	0	"		
		18	2	"	10	6	2016	0	"		
		19	2	"	10	0	1920	0	"		
		20	2	"	9	9	1872	0	"		
		21	4	⅞"□	4	0	1536	0	2.6	7238	
		22	2	"	6	6	1248	0	"		
		23	1	⅜"ϕ	7	6	720	0	0.38	1040	
		24	4	"	5	3	2016	0	"		
	G	5	5	⅞"□	20	0	600	0	2.6	1560	at Bent 28 only
		5	5	⅞"□	20	0	9600	0	2.6	37440	
		6	5	"	10	0	4800	0	"		
		7	2	½"□	19	0	3648	0	0.85	3101	
		8	3	1'-□	30	0	8640	0	3.4	39168	
		9	3	"	10	0	2880	0	"		
		12	2	½"□	13	6	2592	0	0.85		
		13	2	"	13	3	2544	0	"		
H	96	14	2	"	12	9	2448	0	"		
		15	2	"	12	6	2400	0	"		
		16	2	"	11	9	2256	0	"	15586	
		17	2	"	11	3	2160	0	"		
		18	2	"	10	6	2016	0	"		
		19	2	"	10	0	1920	0	"		
		21	8	⅞"□	4	0	3072	0	2.6	11232	
		22	2	"	6	6	1248	0	"		
		23	2	⅜"ϕ	7	6	1440	0	0.38	1313	
		24	4	"	5	3	2016	0	"		
		1	2	½"□	22	0	528	0	0.85	449	
		2	3	1'-□	32	3	1161	0	3.4	6395	
		4	5	"	12	0	720	0	"		
		6	5	⅝"□	10	0	600	0	2.6	1560	
		12	2	⅛"□	13	6	324	0	0.85		
		13	2	"	13	3	318	0	"		
		14	2	"	12	9	306	0	"		
		15	2	"	12	6	300	0	"		
		16	2	"	11	9	282	0	"		
		17	2	"	11	3	270	0	"	2147	
L	12	18	2	"	10	6	252	0	"		
		19	2	"	10	0	240	0	"		
		20	2	"	9	9	234	0	"		
		21	4	⅜"□	4	0	192	0	2.6	905	
		22	2	"	6	6	156	0	"		
		23	1	⅜"ϕ	7	6	90	0	0.38	154	
		24	5	"	5	3	315	0	"		
		1	2	½"□	22	0	32736	0	0.85	27826	
	744	3	2	1'-"	36	9	54684	0	3.4	307346	
		4	4	1'-□	12	0	35712	0	"		
	740	5	5	⅛"□	20	0	74000	0	2.6	192400	
		12	2	½"□	13	6	20088	0	0.85		
		13	2	"	13	3	19716	0	"		
		14	2	"	12	9	18972	0	"		
		15	2	"	12	6	18600	0	"		
M	744	16	2	"	11	9	17484	0	"	133120	
		17	2	"	11	3	16740	0	"		
		18	2	"	10	6	15624	0	"		
		19	2	"	10	0	14880	0	"		
		20	2	"	9	9	14508	0	"		
		21	4	⅞"□	4	0	11904	0	2.6	30950	
		23	1	⅜"ϕ	7	6	5580	0	0.38	2120	
	4	6	5	⅝"□	10	0	200	0	2.6	520	at Bent 75 only
										908879	#
									or	454.45	T

BILL OF MATERIAL FOR DWG. Nº B-4-37

Beam	No. of Beams	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Tot. Wt.	Remarks
		101	2	⅜"ϕ	22	0	396	0	0.38	150	
	9	102	2	1"□	28	3	508	6	3.4	3029	
		103	2	"	21	3	382	6	"		
		104	3	½"□	5	0	135	0	0.85	163	at Bent 86 only
	2	108	3	½"□	9	6	57	0	"		
		114	2	⅜"ϕ	9	0	162	0	0.38		
N		115	2	"	8	6	153	0	"		
	9	116	2	"	8	0	144	0	"	376	
		117	2	"	7	9	139	6	"		
		118	6	"	7	3	391	6	"		
		105	2	⅜"ϕ	21	0	21462	0	0.38	8156	
	511	106	2	⅞"□	30	0	30660	0	2.6	156715	
		107	2	"	29	0	29636	0	"		
	375	108	3	½"□	9	6	10687	6	0.85	12379	
K	136	127	3	"	9	6	3876	0	"		
		114	2	⅜"ϕ	9	0	9198	0	0.38		
		115	2	"	8	6	8687	0	"		
	511	116	2	"	8	0	8176	0	"	21360	
		117	2	"	7	9	7920	6	"		
		118	6	"	7	3	22228	6	"		
	18	105	2	⅜"ϕ	21	0	756	0	0.38	287	
	12	108	3	½"□	9	6	342	0	0.85	436	Near Pile Cap
	6	127	3	"	9	6	171	0	"		
		114	2	⅜"ϕ	9	0	324	0	0.38		
		115	2	"	8	6	306	0	"		
K₁	18	116	2	"	8	0	324	0	"	964	
		117	2	"	7	9	279	0	"		
		118	10	"	7	3	1305	0	"		
		147	2	1"□	34	0	1224	0	3.4		
		148	2	"	30	0	1080	0	"	10373	
		149	2	"	20	9	747	0	"		
	45	104	3	½"□	5	0	675	0	0.85		
	30	108	3	"	9	6	855	0	"	1664	
	15	127	3	"	9	6	427	6	"		Near Pile Cap
		109	2	⅜"ϕ	18	6	1665	0	0.38	633	
		110	1	1"□	26	0	1170	0	3.4	3978	
J	45	111	2	⅞"□	17	9	1597	6	2.6	4154	
		114	2	⅜"ϕ	9	0	810	0	0.38		
		115	2	"	8	6	765	0	"		
		116	2	"	8	0	720	0	"	1881	
		117	2	"	7	9	697	6	"		
		118	6	"	7	3	1957	6	"		
	3	104	3	½"□	5	0	45	0	0.85		
	2	108	3	"	9	6	57	0	"	111	
	1	127	3	"	9	6	28	6	"		
		109	2	⅜"ϕ	18	9	112	6	0.38	43	
		110	2	1"□	26	0	156	0	3.4		
		150	2	"	27	0	162	0	"	1438	
J₁	3	151	2	"	17	6	105	0	"		
		114	2	⅜"ϕ	9	0	54	0	0.38		
		115	2	"	8	6	51	0	"		
		116	2	"	8	0	48	0	"	142	
		117	2	"	7	9	46	6	"		
		118	8	"	7	3	174	0	"		
	48	103	2	1'-□	28	3	2712	0	3.4	9221	
		104	3	½"□	5	0	720	0	0.85		
	2	108	3	"	9	6	57	0	"	685	Bent 28 only
	1	127	3	"	9	6	28	6	"		
		112	2	⅜"ϕ	22	0	2112	0	0.38	803	
P		113	2	1'-□	29	6	2832	0	3.4	9629	
	48	114	2	⅜"ϕ	9	0	864	0	0.38		
		115	2	"	8	6	816	0	"		
		116	2	"	8	0	768	0	"	2006	
		117	2	"	7	9	744	0	"		
		118	6	"	7	3	2088	0	"		

BILL OF MATERIAL FOR DWG. Nº B-4-37 CONT'D.

Beam	Nº of Beams	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Tot. Wt.	Remarks
		119	2	⅞"□	16	6	693	0	2.6	1802	
		120	1	1"□	17	0	357	0	3.4	2965	
R and R₁	21	121	2	"	12	3	514	6	"		
		122	10	½"ϕ	5	3	1102	6	0.67	739	
	28	104	3	½"□	5	0	420	0	0.85		
	12	108	3	"	9	6	342	0	"	696	Remaining to with Beams K
	2	127	3	"	9	6	57	0	"		
		124	2	⅜"ϕ	20	0	1120	0	0.38	426	
		125	2	1"□	27	6	1540	0	3.4	8801	
		126	2	1"□	19	3	1078	0	"		
Q	28	114	2	⅜"ϕ	9	0	504	0	0.38		
		115	2	"	8	6	476	0	"		
		116	2	"	8	0	448	0	"	1170	
		117	2	"	7	9	434	0	"		
		118	6	"	7	3	1218	0	"		
										26753.33	#
									or	133.77	T

BILL OF MATERIAL FOR SHEET Nº B-4-38

Beam	Nº of Beams	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Tot. Wt.	Remarks
		1	2	½"□	22	0	44	0	0.85	37	
		5	10	⅞"□	20	0	200	0	2.6	1456	
		6	36	"	10	0	360	0	"		
		7	2	½"□	19	0	38	0	0.85	71	
		10	2	"	23	0	46	0	"		
		12	4	⅜"ϕ	13	6	54	0	0.38		
		13	4	"	13	3	53	0	"		
		14	4	"	12	9	51	0	"		
		15	4	"	12	6	50	0	"	360	
F		16	4	"	11	9	47	0	"		
F₁	Total	17	4	"	11	3	45	0	"		
F₂	of	18	4	"	10	6	42	0	"		
F₃	all 6	19	4	"	10	0	40	0	"		
F₄	Beams	20	58	"	9	9	565	6	"		
F₅		25	2	½"□	15	0	30	0	0.85	48	
		26	2	"	13	0	26	0	"		
		27	9	⅛"□	17	0	153	0	2.6	398	
		28	3	1'-□	30	0	90	0	3.4	306	
		30	2	⅞"□	24	0	48	0	2.6	125	
		32	2	1'-□	27	0	54	0	3.4	520	
		33	3	"	33	0	99	0	"		
		34	9	⅛"□	12	0	108	0	2.6	463	
		35	10	"	7	0	70	0	"		
		36	2	½"□	9	0	18	0	0.85	15	
		37	4	⅞"□	10	0	40	0	2.6	104	
		104	18	½"□	5	0	90	0	0.85	149	
		108	9	"	9	6	85	6	"		
		114	6	⅜"ϕ	9	0	54	0	0.38		
		115	6	"	8	6	51	0	"		
		116	6	"	8	0	48	0	"		
		117	6	"	7	9	46	6	"		
E (2)		118	36	"	7	3	261	0	"	247	
E₁		124	2	"	20	0	40	0	"		
E₂	Total	130	6	"	12	0	72	0	"		
E₃	of	132	2	"	16	0	32	0	"		
E₄	all 6	134	2	"	23	0	46	0	"		
	Beams	135	9	⅞"□	10	0	90	0	2.6		
		136	2	"	12	0	24	0	"		
		138	2	"	16	0	32	0	"	795	
		139	2	"	20	0	40	0	"		
		142	1	"	27	0	27	0	"		
		143	1	"	28	3	28	3	"		
		145	2	"	32	3	64	6	"		
		116	8	⅞"ϕ	8	0	64	0	0.38		
		117	4	"	7	9	31	0	"	58	
		118	8	"	7	3	58	0	"		
S	Total	127	9	½"□	9	6	85	6	0.85	73	
	of 2	133	4	⅜"ϕ	18	0	72	0	0.38	27	
	Beams	138	4	⅞"□	16	0	64	0	2.6	313	
		143	2	"	28	3	56	6	"		

BILL OF MATERIAL FOR DWG. Nº B-4-38 CONT'D.

Beam	Nº of Beams	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Tot. Wt.	Remarks
		1	2	½"□	22	0	44	0	0.85	37	
		4	10	1'-□	12	0	120	0	3.4	408	
		6	10	⅞"□	10	0	100	0	2.6	260	
		7	4	½"□	19	0	76	0	0.85	65	
		12	4	⅜"ϕ	13	6	54	0	0.38		
		12	4	"	13	3	53	0	"		
		14	4	"	12	9	51	0	"		
		15	4	"	12	6	50	0	"	386	
		16	4	"	11	9	47	0	"		
A		17	4	"	11	3	45	0	"		
A₁	Total	18	4	"	10	6	42	0	"		
A₂	of all	19	4	"	10	0	40	0	"		
A₃	6 Beams	20	65	"	9	9	633	9			
A₄		25	4	½"□	15	0	60	0	0.85	73.	
A₅		26	2	"	13	0	26	0	"		
		27	4	⅞"□	17	0	68	0	2.6	177	
		28	3	1'-□	30	0	90	0	3.4	592	
		29	3	"	28	0	84	0	"		
		30	2	⅞"□	24	0	48	0	2.6		
		31	2	"	23	0	46	0	"	952	
		34	16	"	12	0	192	0	"		
		37	8	"	10	0	80	0	"		
		104	9	½"□	5	0	45	0	0.85	256	
		108	27	"	9	6	256	6	"		
		114	12	⅜"ϕ	9	0	108	0	0.38		
		115	12	"	8	6	102	0	"		
		116	12	"	8	0	96	0	"		
		117	12	"	7	9	93	0	"	282	
2 x B	Total	118	24	"	7	3	174	0	"		
2 x B₁	of all	130	4	"	12	0	48	0	"		
2 x B₂	6 Beams	131	4	"	14	0	56	0	"		
		132	4	"	16	0	64	0	"		
		135	4	⅞"□	10	0	40	0	2.6		
		136	4	"	12	0	48	0	"		
		137	4	"	14	0	56	0	"	775	
		140	2	"	24	6	49	0	"		
		141	2	"	25	6	51	0	"		
		142	2	"	27	0	54	0	"		
		108	9	½"□	9	6	85	6	0.85	73	
		114	12	⅜"ϕ	9	0	108	0	0.38		
		115	12	"	8	6	102	0	"		
		116	12	"	8	0	96	0	"		
		117	12	"	7	9	93	0	"	312	
		118	28	"	7	3	203	0	"		
		131	4	"	14	0	56	0	"		
		135	4	"	18	0	72	0	"		
		134	4	"	23	0	92	0			
		136	4	⅞"□	12	0	48	0	2.6		
		138	4	"	16	0	64	0	"		
		139	4	"	20	0	80	0	"	928	
		140	2	"	24	6	49	0	"		
		143	2	"	28	3	56	6	"		
		144	2	"	29	9	59	6	"		

Continued on Drawing B-4-50

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF & PIER #2
BILL OF MATERIAL FOR REINFORCING STEEL - SHEET 1 OF 4 SHEETS

SCALE:
DATE: Oct. 15, 1925
RECOMMENDED: Arthur E. Davis, Reducing Engineer
APPROVED: CHAIRMAN

DRAWN BY E.W.C.
TRACED BY
CHECKED BY

B-4-49

BILL OF MATERIAL FOR DWG. Nº B-4-38 CONT'D.

Beam	Nº of Beams	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		108	9	½"	9	6	85	6	0.85	73	
		114	6	⅜"ø	9	0	54	0	0.38		
		115	6	"	8	6	51	0	"		
		116	6	"	8	0	48	0	"		
		117	6	"	7	9	46	6	"		
		118	12	"	7	3	87	0	"	148	
D	Total	130	2	"	12	0	24	0	"		
D.	of all	132	2	"	16	0	32	0	"		
D2	3 Beams	134	2	"	23	0	46	0	"		
		135	2	⅛"	10	0	20	0	2.6		
		138	2	"	16	0	32	0	"		
		139	2	"	20	0	40	0	"		
		140	1	"	24	6	24	6	"	528	
		142	1	"	27	0	27	0	"		
		144	2	"	29	9	59	6	"		
		104	24	½"	5	0	120	0	0.85	199	
		108	12	"	9	6	114	0	"		
		114	2	⅜"ø	9	0	18	0	0.38		
		115	8	"	8	6	68	0	"		
		116	8	"	8	0	64	0	"		
T (2)	Total	117	8	"	7	9	62	0	"	270	
T. (e)	of all G	118	40	"	7	3	290	0	"		
T9 (2)	Beams	132	4	"	16	0	64	0	"		
		133	8	"	18	0	144	0	"		
		138	8	⅛"ø	16	0	128	0	2.6		
		142	2	"	27	0	54	0	"	972	
		143	4	"	28	3	113	0	"		
		146	4	"	19	9	79	0	"		
										13331	#
									or	6.67	T

BILL OF MATERIAL FOR DWG. Nº B-4-39

Span	Nº of Spans	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
	82	201	37	½"ø	5	0	15170	0	0.67	10164	
	80	202	39	⅜"ø	24	0	74880	0	0.38		
	69	203	45	"	21	0	65205	0	"	55260	
	1	204	2	"	36	0	72	0	"		
	82	206	36	⅝"ø	15	0	44280	0	1.04		
		211	18	"	13	3	19557	0	"		
	71	212	19	"	11	0	14839	0	"	84340	
	11	212	20	"	11	0	2420	0	"		1st Span near Exp. Joint
	13	213	45	⅜"ø	22	0	12870	0	0.38	4891	
	82	214	4	¾"ø	27	0	8856	0	1.5	13284	
	2	220	39	⅜"ø	24	6	1911	0	0.38	726	
	82	222	18	⅝"ø	9	3	13653	0	1.04	14199	
	69	223	19	⅜"ø	6	0	7866	0	0.38		Middle Span
	2	223	20	"	6	0	240	0	"	3607	End Span.
	11	223	21	"	6	0	1386	0	"		2d Span near Exp. Joint
	71	224	19	½"ø	6	0	8094	0	0.67		
	11	224	20	"	6	0	1320	0	"	6307	
20'0"	69	225	57	⅜"ø	5	9	22614	9	0.38		
Total 82 Spans	2	225	60	"	5	9	690	0	"	10370	
	11	225	63	"	5	9	3984	9	"		
	71	226	111	½"ø	4	0	31524	0	0.67		
	11	226	114	"	4	0	5016	0	"	42282	
	82	227	36	"	9	0	26568	0	"		
	69	228	38	⅜"ø	7	0	18354	0	0.38		
	2	228	40	"	7	0	560	0	"	8416	
	11	228	42	"	7	0	3234	0	"		
	71	229	38	½"ø	7	0	18886	0	0.67		
	11	229	40	"	7	0	3080	0	"		
	71	230	114	"	6	0	48564	0	"	78316	
	11	250	120	"	6	0	7920	0	"		
	71	231	19	"	24	6	33050	6	"		
	11	231	20	"	24	6	5390	0	"		
	71	232	19	⅝"ø	35	0	47215	0	0.38	20868	
	11	232	20	"	35	0	7700	0	"		
	82	233	18	½"ø	7	9	11439	0	0.67	7664	
	24	201	37	½"ø	5	0	4440	0	0.67	2975	
		206	28	⅝"ø	15	0	5040	0	1.04		
		211	14	"	13	3	2226	0	"	9753	
		212	16	"	11	0	2112	0	"		
		215	4	¾"ø	23	0	1104	0	1.5	1656	

BILL OF MATERIAL FOR DWG. Nº B-4-39 CONT'D.

Span	Nº of Spans	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		221	84	⅝"ø	19	0	19152	0	0.38	7278	
		222	14	⅝"ø	9	3	1554	0	1.04	1616	
		223	18	⅝"ø	6	0	1296	0	0.38	492	
16'-6"	12	224	16	½"ø	6	0	1152	0	0.67	772	
Tot. 12 Spans		225	54	⅝"ø	5	9	372G	0	0.38	1416	
		226	90	½"ø	4	0	4320	0	0.67	4920	
		227	28	"	9	0	3024	0	"		
		228	36	⅜"ø	7	0	3024	0	0.38	1149	
		229	32	½"ø	7	0	2688	0	0.67		
		230	96	"	6	0	6912	0	"	9584	
		231	16	"	24	6	4704	0	"		
		232	16	⅜"ø	35	0	6720	0	0.38	2554	
		233	14	½"ø	7	9	1302	0	0.67	872	
	113	222	2	⅝"ø	9	3	2090	6	1.04	2174	on 2 of all Bents
										405908	#
									or	202.95	T

BILL OF MATERIAL FOR DWG. Nº B-4-40

Span	Nº of Spans	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
	23	201	37	½"ø	5	0	4255	0	0.67	2851	
	22	202	29	⅜"ø	24	0	15312	0	0.38		
	20	203	37	"	21	0	15540	0	"	23160	
		204	38	"	36	0	30096	0	"		
		205	18	⅝"ø	15	0	5040	0	1.04		
20'Spans		206	90	"	15	0	29700	0	"		
		207	18	"	10	0	3960	0	"	47270	
		208	19	"	14	0	5852	0	"		
	22	209	19	½"ø	20	0	8360	0	0.67	13793	
		210	19	"	29	3	12226	6	"		
		211	18	⅝"ø	13	3	5247	0	1.04	10239	
		212	19	⅝"ø	"	0	4598	0	"		
		214	4	¾"ø	27	0	2376	0	1.5	3564	
	2	213	37	⅜"ø	22	0	1628	0	0.38	783	20 Span near Exp. Joint
		204	6	"	36	0	432	0	"		
	6	201	37	½"ø	5	0	1110	0	0.67	744	
		213	29	⅜"ø	22	0	2552	0	0.38		
		203	37	"	21	0	3108	0	"	3245	
		204	20	"	36	0	2880	0	"		
		205	16	⅝"ø	15	0	960	0	1.04		
		206	80	"	15	0	4800	0	"	7646	
17'-7" and		207	16	"	10	0	640	0	"		
18'0" Spans	4	208	17	"	14	0	952	0	"		
		209	17	½"ø	20	0	1360	0	0.67		
		210	17	"	29	3	1989	0	"	2244	
		211	16	⅝"ø	13	3	848	0	1.04	1660	
		212	17	"	11	0	748	0	"		
		215	4	¾"ø	23	0	368	0	1.5	552	
	30	207	2	⅝"ø	10	0	600	0	1.04	624	on 6 of all Bents
										118375	#
									or	59.19	T

BILL OF MATERIAL FOR DWG. Nº B-4-41

Span	Nº of Spans	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
	64	201	32	½"ø	5	0	10240	0	0.67	6861	
	56	202	30	⅜"ø	24	0	40320	0	0.38		
	52	203	34	"	21	0	37128	0	"	29450	
	56	206	36	⅝"ø	15	0	30240	0	1.04		
	4	206	28	"	15	0	1680	0	"		
	56	211	18	"	13	3	13356	0	"		
	4	211	14	"	13	3	742	0	"	60809	
	52	212	19	"	11	0	10868	0	"		
	4	212	20	"	11	0	880	0	"		
	4	212	16	"	11	0	704	0	"		
	4	213	34	⅝"ø	22	0	2992	0	0.38	1137	
	56	214	4	¾"ø	27	0	6048	0	1.5	9624	
	4	215	4	"	23	0	368	0	"		
	4	221	64	⅝"ø	19	0	4864	0	0.38	1848	
	56	222	18	⅝"ø	9	3	9324	0	1.04	10236	
	4	222	14	"	9	3	518	0	"		
	52	223	19	⅜" ø	6	0	5928	0	0.38		
	4	223	18	"	6	0	432	0	"	2608	
	4	223	21	"	6	0	504	0	"		
	52	224	19	½"ø	6	0	5928	0	0.67		

Slab Reinforcing exclusive of Reinforcing at Cross-Over

BILL OF MATERIAL FOR DWG. Nº B-4-41 CONT'D.

Span	Nº of Spans	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
20'0" and	4	224	20	½"ø	6	0	480	0	0.67	4551	
16'-6" Total	4	224	16	"	6	0	384	0	"		
60 Spans	52	225	38	⅜"ø	5	9	11362	0	0.38		
	4	225	42	"	5	9	966	0	"	4999	
	4	225	36	"	5	9	828	0	"		
	52	226	74	½"ø	4	0	15392	0	0.67		
	4	226	76	"	4	0	1216	0	"		
	4	226	60	"	4	0	960	0	"	18186	
	56	227	18	"	9	0	9072	0	"		
	4	227	14	"	9	0	504	0	"		
	52	228	19	⅜"ø	7	0	6916	0	0.38		
	4	228	21	"	7	0	588	0	"	3043	
	4	228	18	"	7	0	504	0	"		
	52	229	19	½"ø	7	0	6916	0	0.67		
	4	229	20	"	7	0	560	0	"		
	4	229	16	"	7	0	448	0	"		
	52	230	57	"	6	0	17784	0	"		
	4	230	80	"	6	0	1920	0	"		
	4	230	64	"	6	0	1536	0	"	38122	
	52	231	19	"	24	6	24206	0	"		
	4	231	20	"	24	6	1960	0	"		
	4	231	16	"	24	6	1568	0	"		
	52	232	19	⅜"ø	35	0	34580	0	0.38		
	4	232	20	"	35	0	2800	0	"	15056	
	4	232	16	"	35	0	2240	0	"		
	56	233	18	½"ø	7	9	7812	0	0.67		
	4	233	14	"	7	9	434	0	"	5525	
	68	222	2	⅝"ø	9	3	1258	0	1.04	1308	
	56	202	9	⅜"ø	24	0	12096	0	0.38		
	52	203	13	"	21	0	14196	0	"		
	4	213	13	"	22	0	1144	0	"	11061	
	4	221	22	"	19	0	1672	0	"		
	52	235	19	⅞"ø	15	0	14820	0	2.04		
	4	235	20	"	15	0	1200	0	"		
	4	235	16	"	15	0	960	0	"		
	52	236	19	"	7	0	6916	0	"		
	4	236	20	"	7	0	560	0	"		
20'0" and	4	236	16	"	7	0	448	0	"		
16'6" Spans	56	237	18	"	6	6	6552	0	"		
	4	237	14	"	6	6	364	0	"	119560	
	56	238	18	"	9	9	9828	0	"		
	4	238	14	"	9	9	546	0	"		
	52	239	19	"	14	6	14326	0	"		
	4	239	16	"	14	6	928	0	"		
	4	239	20	"	14	6	1160	0	"		
	56	240	38	½"ø	3	3	6916	0	0.67		
	4	240	30	"	3	3	390	0	"		
	56	241	38	"	4	0	8512	0	"	10920	
	4	241	30	"	4	0	480	0	"		
	52	242	19	⅜"ø	13	0	12844	0	0.38		
	4	242	20	"	13	0	1040	0	"	5592	
	4	242	16	"	13	0	832	0	"		
Bents	11	243	6	⅞"ø	13	6	891	0	2.04		
	11	244	3	"	17	0	561	0	"	17720	
	53	245	6	"	15	6	4929	0	"		
	53	246	3	"	14	6	2305	6	"		
										378196	#
									or	189.10	T

Slab Reinforcing exclusive of Reinforcing at Cross-Over only

BILL OF MATERIAL FOR DWG. Nº B-4-42

Span	Number of Spans	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		201	152	½"ø	5	0	760	0	0.67	509	
		202	45	⅜"ø	24	0	1080	0	0.38	1452	
		203	62	"	21	0	1302	0	"		
		204	40	"	36	0	1440	0	"		
		205	35	⅝"ø	15	0	525	0	1.04		
		206	156	"	15	0	2340	0	"		
		207	60	"	10	0	600	0	"	4142	
		208	37	"	14	0	518	0	"		
		209	28	½"ø	20	0	560	0	0.67	610	
		210	12	"	29	3	351	0	"		
		211	22	⅝"ø	13	3	291	6	1.04	978	
		212	50	"	11	0	649	0	"		
		214	8	¾"ø	27	0	216	0	1.5	600	
		215	8	"	23	0	184	0	"		

Standard Bars

BILL OF MATERIAL FOR DWG. Nº B-4-42 CONT'D.

Span	Nº of Spans	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		222	22	⅝"ø	9	3	203	6	1.04	212	
		223	18	⅜"ø	6	0	108	0	0.38	41	
		224	25	½"ø	6	0	150	0	0.67	101	
		225	54	⅜"ø	5	9	310	6	0.38	118	
		226	108	½"ø	4	0	432	0	0.67	507	
		227	36	½"ø	9	0	324	0	"		
		228	38	⅜"ø	7	0	266	0	0.38	101	
		229	38	½"ø	7	0	266	0	0.67		
		230	186	"	6	0	1116	0	"	1189	
		231	16	"	24	6	392	0	"		
		232	12	⅜"ø	35	0	420	0	0.38	160	
		233	27	½"ø	7	9	209	3	0.67	140	
		251	5	⅝"ø	10	9	53	9	1.04	56	
		252	7	⅜"ø	7	6	52	6	0.38	46	
		253	9	"	7	9	69	9	"		
		254	10	½"ø	11	0	110	0	0.67	74	
		255	9	⅜"ø	11	0	99	0	0.38		
		256	3	"	12	6	37	6	"		
		257	12	"	13	6	162	0	"		
		258	24	"	15	0	360	0	"		
		259	18	"	17	0	306	0	"		
		260	3	"	18	0	54	0	"		
		261	19	"	20	0	380	0	"	1034	
		262	8	"	22	0	176	0	"		
		263	15	"	24	0	360	0	"		
		264	16	"	25	0	400	0	"		
		265	11	"	7	9	85	3	"		
		266	12	"	3	3	39	0	"		
		267	15	"	6	0	90	0	"		
		268	5	"	9	0	45	0	"		
		269	2	"	10	0	20	0	"		
		270	4	"	27	0	108	0	"		
		271	15	½"ø	3	3	48	9	0.67		
		272	55	"	6	6	357	6	"		
		273	12	"	9	6	114	0	"		
		274	11	"	11	0	121	0	"		
		276	4	"	14	0	56	0	"		
		278	3	"	18	0	54	0	"		
		280	7	"	22	0	154	0	"	732	
		281	10	"	8	0	80	0	"		
		282	1	"	24	0	24	0	"		
		283	2	"	27	0	54	0	"		
		284	1	"	29	0	29	0	"		
		285	3	⅜"ø	29	0	87	0	0.38		
		286	1	"	31	0	31	0	"		
		287	4	"	33	0	132	0	"		
		288	1	"	35	0	35	0	"	222	
		289	7	"	37	0	259	0	"		
		290	1	⅜"ø	40	0	40	0	"		
		291	2	½"ø	31	0	62	0	0.67		
		293	1	"	35	0	35	0	"	144	
		294	1	"	37	0	37	0	"		
		296	18	"	4	6	81	0	"		
		299	4	⅜"ø	24	6	98	0	1.5	147	
										13315	#
									or	6.66	T

Special Bars for North Corner

Reinforcing at Cross-Over only

Stringer Bars

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF - PIER #2
BILL OF MATERIAL FOR REINFORCING STEEL - SHEET 2 OF 4 SHEETS

SCALE:
DATE: OCT. 15, 1925
RECOMMENDED: Arthur G. Davis, DESIGNING ENGINEER
APPROVED: _____, CHAIRMAN

DRAWN BY E.W.C.
TRACED BY
CHECKED BY E.W.C.

B-4-50

BILL OF MATERIAL FOR DWG. Nº B-4-43

Span	Number of Spans	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		201	392	½"ø	5	0	1960	0	0.67	1313	
		202	174	⅝"ø	24	0	4176	0	0.38		
		203	205	"	21	0	4305	0	"	4003	
		204	57	"	36	0	2052	0	"		
		205	131	⅝"ø	15	0	1965	0	1.04		
		206	432	"	15	0	6480	0	"		
		207	149	"	10	0	1490	0	"	11349	
		208	111	"	14	0	1554	0	"		
		209	57	½"ø	20	0	1140	0	0.67	764	Standard
		212	17	⅝"ø	11	0	187	0	1.04	194	Bars
		214	40	¾"ø	27	0	1080	0	1.5	1620	
		222	60	⅝"ø	9	3	555	0	1.04	577	
		223	64	⅜"ø	6	0	384	0	0.38	146	
		224	70	½"ø	6	0	420	0	0.67	281	
		225	192	⅜"ø	5	9	1104	0	0.38	420	
		226	372	½"ø	4	0	1488	0	0.67	1727	
		227	121	"	9	0	1089	0	"		
		228	128	⅜"ø	7	0	896	0	0.38	340	
		229	140	½"ø	7	0	980	0	0.67		
		230	411	"	6	0	2466	0	"	2589	
		233	54	"	7	9	418	6	"		
		249	26	⅝"ø	15	0	390	0	1.04		
		250	24	"	30	0	720	0	"	1233	
		251	7	"	10	9	75	3	"		
		252	4	⅜"ø	7	6	30	0	0.38	47	
		253	12	"	7	9	93	0	"		
		254	10	½"ø	11	0	110	0	0.67	74	
		255	23	⅜"ø	11	0	253	0	0.38		
		256	36	"	12	6	450	0	"		
		257	22	"	13	6	297	0	"		
		258	49	"	15	0	735	0	"		
		259	61	"	17	0	1037	0	"		
		260	45	"	18	0	810	0	"		
		261	28	"	20	0	560	0	"		
		262	33	"	22	0	726	0	"	3078	
		263	58	"	24	0	1392	0	"		
		264	30	"	25	0	750	0	"		
		265	33	"	7	9	255	9	"		
		266	12	"	3	3	39	0	"		
		267	16	"	6	0	96	0	"		
		268	20	"	9	0	180	0	"		
		269	6	"	10	0	60	0	"		
		270	17	"	27	0	459	0	"		
		271	29	½"ø	3	3	94	3	0.67		
		272	55	"	6	6	357	6	"		
		273	46	"	9	6	431	0	"		
		274	51	"	11	0	561	0	"		
		275	6	"	12	0	72	0	"		
		276	7	"	14	0	98	0	"		
		277	16	"	16	0	256	0	"	2240	
		278	6	"	18	0	108	0	"		
		279	13	"	20	0	260	0	"		
		280	6	"	22	0	132	0	"		
		281	33	"	8	0	264	0	"		
		282	7	"	24	0	168	0	"		
		283	8	"	27	0	216	0	"		
		284	11	"	29	0	319	0	"		
		285	8	⅜"ø	29	0	232	0	0.38		
		286	8	"	31	0	248	0	"		
		287	8	"	33	0	264	0	"		
		288	12	"	35	0	420	0	"	894	
		289	4	"	37	0	148	0	"		
		290	26	⅜"ø	40	0	1040	0	"		
		291	8	½"ø	31	0	248	0	0.67		
		292	7	"	33	0	231	0	"		
		293	9	"	35	0	315	0	"		
		294	9	"	37	0	333	0	"	1534	
		295	25	"	40	0	1000	0	"		
		296	36	"	4	6	162	0	"		
		297	8	¾"ø	33	6	268	0	1.5	402	
		298	4	½"ø	25	0	100	0	0.67	670	
										36095	#
									or	18.05	T

BILL OF MATERIAL FOR DWG. Nº B-4-44

Beam	Nº of Beams	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
Tie Beams	40	301	5	1"□	25	3	3050	0	3.4		at Exp. Joints 5@19" and Ends at Wharf
Front and Back / Center	20	301	6	"	25	3	3030	0	"		
Front and Back / Center	280	302	5	"	28	0	39200	0	"		26'0" Span
Front and Back / Center	140	302	6	"	28	0	23520	0	"		
Front and Back / Center	40	303	5	"	22	9	4550	0	"	276556	16'6", 17'7" and 18'8" Spans
Front and Back / Center	20	303	6	"	22	9	2730	0	"		
Front / Back	160	304	1	"	18	6	2960	0	"		at all 18'8" Spans
Front / Back	20	305	1	"	15	0	300	0	"		at 16'6", 17'7" and 18'8" Spans
Back	160	324	9	½"ø	10	0	14400	0	0.67		20'0" Spans
Back	20	324	7	"	10	0	1400	0	"		For all Shorter Spans
Front and Center / Front and Center	320	325	9	"	8	3	25760	0	"	28053	20'0" Spans
Front and Center	40	325	7	"	8	3	2310	0	"		For all Shorter Spans
Back	160	326	1	1"□	14	0	2240	0	3.4		All 20' Spans
Back	20	327	1	"	10	6	210	0	"	8738	Reduce 1" Pipd 18'0" Spans In Bents 104 115 117 and 113 only
Back	2	328	2	"	30	0	120	0	"		
Bents	Number of Bents										
		306	4	1"□	26	0	14560	0	3.4		
		307	4	"	26	0	14560	0	"	17113.60	
	140	308	2	"	38	0	10640	0	"		
		309	2	"	38	0	10640	0	"		
		310	6	⅜"ø	3	9	3870	0	0.38	5915	
		311	2	"	34	0	11696	0	"		
	172	312	6	½"ø	34	0	35088	0	0.67		
Bents from 68 to 104 incl. and 108 to 137 incl.		313	1	"	35	0	6020	0	"		
		314	1	"	30	0	5160	0	"		
		315	1	"	25	0	4300	0	"		
		316	1	"	20	0	3440	0	"	39182	
		317	1	"	15	0	2580	0	"		
		318	1	"	11	0	1892	0	"		
	16	319	32	¾"□	8	3	4224	0	1.91	8068	
	16	320	68	½"ø	12	9	13872	0	0.67		
	140	321	34	"	9	3	44030	0	"	38704	
		322	41	¾"ø	7	9	54653	0	1.5	205046	
		323	53	"	9	0	82044	0	"		
		329	1	½"ø	7	0	1204	0	0.67		
		330	2	"	7	3	2494	0	"		
		331	1	"	7	6	1290	0	"		
		332	1	"	7	9	1333	0	"		
Standard Bents from 1 to 25 incl.		333	2	"	8	3	2838	0	"		
		334	1	"	8	9	1505	0	"		
		355	1	"	9	3	1591	0	"		
		336	2	"	9	9	3354	0	"		
		337	1	"	10	3	1763	0	"		
		338	1	"	10	9	1849	0	"		
		339	1	"	11	3	1935	0	"		
	172	340	1	"	11	6	1978	0	"		
		341	1	"	12	0	2064	0	"	37539	
		342	1	"	12	6	2150	0	"		
		343	1	"	13	0	2236	0	"		
		344	1	"	13	3	2279	0	"		
		345	1	"	13	9	2365	0	"		
		346	1	"	14	6	2494	0	"		
		347	1	"	14	9	2537	0	"		
		348	1	"	15	0	2580	0	"		
		349	1	"	15	6	2666	0	"		
		350	1	"	16	0	2752	0	"		
		351	1	"	16	6	2838	0	"		
		352	1	"	17	0	2924	0	"		
		353	1	"	17	6	3010	0	"		
	4	354	3	⅜"ø	14	3	171	0	1.5		
	136	355	3	"	13	9	5610	0	"	10545	Near Exp. Joints Bent 1
	37	356	3	"	11	3	1248	9	"		Bents 1, 76 and 137
	172	357	4	⅜"ø	7	0	4816	0	0.38	1830	
	34	376	3	1"ø	7	0	714	0	2.67		Bents 2 and 136 and Exp. Joints
	170	377	3	"	11	6	5865	0	"	38808	
	136	378	3	"	19	6	7956	0	"		
		204	4	⅜"ø	36	0	4320	0	0.38	1642	
		306	4	1"□	26	0	3120	0	3.4		
		307	4	"	26	0	3120	0	"		
		308	2	"	38	0	2280	0	"	36720	
		309	2	"	38	0	2280	0	"		
		312	6	½"ø	34	0	6120	0	0.67		
	50	313	1	"	35	0	1050	0	"		
		314	1	"	30	0	900	0	"		
		315	1	"	25	0	750	0	"		
		316	1	"	20	0	600	0	"	6834	
		317	1	"	15	0	450	0	"		
		318	1	"	11	0	330	0	"		

BILL OF MATERIAL FOR DWG. Nº B-4-44 CONT'D.

Bents	Nº of Bents	Mark	Nº Reqd Per Bent	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
	3	319	32	¾"□	8	3	792	0	1.91	1513	
	3	320	64	½"ø	12	9	2448	0	0.67	6400	
	24	321	32	"	9	3	7104	0	"		
		322	37	⅜"ø	7	9	8602	6	1.5	29914	
		323	42	"	9	0	11340	0	"		
		329	1	½"ø	7	0	210	0	0.67		
		330	1	"	7	3	217	6	"		
		331	1	"	7	6	225	0	"		
		332	1	"	7	9	232	6	"		
		333	1	"	8	3	247	6	"		
		334	1	"	8	9	262	6	"		
		335	1	"	9	3	277	6	"		
Bents from 68 to 104 incl.	30	336	1	"	9	9	292	6	"		
		337	1	"	10	3	307	6	"		
		338	1	"	10	9	322	6	"		
		339	1	"	11	3	337	6	"	6040	
		340	1	"	11	6	345	0	"		
		341	1	"	12	0	360	0	"		
		342	1	"	12	6	375	0	"		
		343	1	"	13	0	390	0	"		
		344	1	"	13	3	397	6	"		
		345	1	"	13	9	412	6	"		
		346	1	"	14	6	435	0	"		
		347	1	"	14	9	442	6	"		
		348	1	"	15	0	450	0	"		
		349	1	"	15	6	465	0	"		
		350	1	"	16	0	480	0	"		
		351	1	"	16	6	495	0	"		
		352	1	"	17	0	510	0	"		
		353	1	"	17	6	525	0	"		
	29	355	3	¾"ø	13	9	1196	3	1.5	1845	Bent 88
	1	356	3	"	11	3	33	9	"		
	6	376	3	1"ø	7	0	126	0	2.67		
	30	377	3	"	11	6	1035	0	"	6849	
	24	378	3	"	19	6	1404	0	"		
										968191	#
									or	484.10	T

BILL OF MATERIAL FOR DWG. Nº B-4-45

Bent	Nº of Bents	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		302	10	1"□	28	0	280	0	3.4	1078	
		304	2	"	18	6	37	0	"		
		324	6	½"ø	10	0	60	0	0.67	350	
		325	56	"	8	3	462	0	"		
		374	2	1"□	5	0	10	0	3.4	668	
		381	10	"	18	6	185	0	"		
Tie Beams		382	3	¾"ø	12	0	36	0	1.5	54	
		386	12	1"□	31	0	372	0	3.4		
		387	10	"	30	6	305	0	"		
		388	2	"	21	0	92	0	"	2798	
		306	4	"	26	0	104	0	"		
		312	6	½"ø	34	0	204	0	0.67		
		315	1	"	25	0	25	0	"		
		316	4	"	20	0	80	0	"		
		317	2	"	15	0	30	0	"	453	
		318	2	"	11	0	22	0	"		
		321	34	"	9	3	314	6	"		
		322	42	¾"ø	7	9	325	6	1.5	1055	
		323	42	"	9	0	378	0	"		
Nº 116		332	3	½"ø	7	9	23	3	0.67		
		333	3	"	8	3	24	9	"		
		334	3	"	8	9	26	3	"		
		336	1	"	9	9	9	9	"		
		337	3	"	10	3	30	9	"		
		339	3	"	11	3	33	9	"		
		340	1	"	11	6	11	6	"		
		342	3	"	12	6	37	6	"		
		344	1	"	13	3	13	3	"		
		345	3	"	13	9	41	3	"	265	
		348	3	"	15	0	45	0	"		
		349	2	"	15	6	31	0	"		
		351	2	"	16	6	33	0	"		
		353	2	"	17	6	35	0	"		
		366	4	⅜"ø	24	0	96	0	0.38	59	
		367	2	"	30	0	60	0	"		
		368	4	1"□	26	0	104	0	3.4	354	
		377	3	1"ø	11	6	34	6	2.67	92	
		380	4	1"□	33	0	132	0	3.4		

BILL OF MATERIAL FOR DWG. Nº B-4-45 CONT'D.

Bent	Nº of Bents	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		306	4	1"□	26	0	104	0	3.4	1333	
		307	6	"	26	0	156	0	"		
		312	6	½"ø	34	0	204	0	0.67		
		316	4	"	20	0	80	0	"		
		317	1	"	15	0	15	0	"	344	
		318	1	"	11	0	11	0	"		
		321	22	"	9	3	203	6	"		
		322	37	¾"ø	7	9	286	9	1.5	997	
Nº 115		323	42	"	9	0	378	0	"		
		348	2	½"ø	15	0	30	0	0.67		
		349	2	"	15	6	31	0	"	64	
		352	2	"	17	0	34	0	"		
		358	2	⅜"ø	36	0	72	0	0.38	46	
		366	2	"	24	0	48	0	"		
		377	3	1"ø	11	6	34	6	2.67	248	
		378	3	"	19	6	58	6	"		
		383	2	1"□	17	0	34	0	3.4		
		306	4	"	26	0	104	0	"	1000	
		307	6	"	26	0	156	0	"		
		310	6	⅜"ø	3	9	22	6	0.38	9	
		312	6	½"ø	34	0	204	0	0.67		
		316	4	"	20	0	80	0	"		
		317	1	"	15	0	15	0	"	344	
		318	1	"	11	0	11	0	"		
Nº 117		321	22	"	9	3	203	6	"		
		322	41	¾"ø	7	9	317	9	1.5	1192	
		323	53	"	9	0	477	0	"		
		348	2	½"ø	15	0	30	0	0.67		
		349	2	"	15	6	31	0	"	64	
		352	2	"	17	0	34	0	"		
		357	4	⅜"ø	7	0	28	0	0.38	29	
		366	2	"	24	0	48	0	"		
		377	3	1"ø	11	6	34	6	2.67	248	
		378	3	"	19	6	58	6	"		
		383	2	1"□	17	0	34	0	3.4	116	
										13255	#
									or	6.63	T

BILL OF MATERIAL FOR DWG. Nº B-4-46

Bent	Number Bents	Mark	Number Req'd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		301	22	1"□	25	3	555	6	3.4		
		302	54	"	28	0	1512	0	"	7659	
		304	10	"	18	6	185	0	"		
		324	6	½"ø	10	0	60	0	0.67	902	
		325	156	"	8	3	1287	0	"		
		369	2	1"□	12	0	24	0	3.4		
		370	10	"	23	0	230	0	"		
Tie Beams		371	20	"	28	0	560	0	"		
		372	2	"	17	3	34	6	"	3108	
		373	3	"	18	6	55	6	"		
		374	2	"	5	0	10	0	"		
		376	21	1"ø	7	0	147	0	2.67		
		377	39	"	11	6	448	6	"	2371	
		378	15	"	19	6	292	6	"		
	2	306	4	1"□	26	0	208	0	3.4		
	2	307	4	"	26	0	208	0	"	1414	
	1	310	6	⅜"ø	3	9	22	6	0.38		
	2	311	2	"	34	0	136	0	"	34	
	2	312	6	½"ø	34	0	408	0	0.67		
	2	313	2	"	35	0	140	0	"		
	2	315	1	"	25	0	50	0	"		
	2	316	1	"	20	0	40	0	"	834	
	2	317	1	"	15	0	30	0	"		

Continued on Drawing B-4-52

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

CONCRETE WHARF - PIER #2
BILL OF MATERIAL FOR REINFORCING STEEL - SHEET 3 OF 4 SHEETS

SCALE:
DATE: OCT. 15, 1925
RECOMMENDED: Arthur C. Davis, DESIGNING ENGINEER
APPROVED: CHAIRMAN

DRAWN BY E.C.W. C.
TRACED BY ***
CHECKED BY E.C. Consultant

B-4-51

BILL OF MATERIAL FOR DWG. Nº B-4-46 CONT'D.

Bent	Number of Bents	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
Bents 77 and 87	2	318	1	½"ϕ	11	0	22	0	0.67		
	2	321	30	"	9	3	555	0	"		
	1	322	78	¾"ϕ	7	9	604	6	1.5	2189	
	1	323	95	"	9	0	855	0	"		
	1	330	1	½"ϕ	7	3	7	3	0.67		
	1	333	1	"	8	3	8	3	"		
	1	336	1	"	9	9	9	9	"		
	2	337	4	"	10	3	82	0	"		
	2	339	3	"	11	3	67	6	"		
	2	342	3	"	12	6	75	0	"	482	
	2	343	3	"	13	0	78	0	"		
	2	346	3	"	14	6	87	0	"		
	2	348	3	"	15	0	90	0	"		
	3	350	3	"	16	0	144	0	"		
	2	353	2	"	17	6	70	0	"		
	1	357	4	⅜"ϕ	28	0	112	0	0.38	70	
	1	358	2	"	36	0	72	0			
	2	364	4	1"□	33	0	264	0	3.4		
	2	306	4	"	26	0	208	0	"	2312	
	2	307	4	"	26	0	208	0	"		
	1	310	6	⅜"ϕ	3	9	22	6	0.38	9	
	2	312	6	½"ϕ	34	0	408	0	0.67		
	2	315	4	"	25	0	200	0	"		
	2	317	1	"	15	0	30	0	"	764	
	2	318	1	"	11	0	22	0	"		
	2	321	26	"	9	3	481	0	"		
	1	322	78	¾"ϕ	7	9	604	6	1.5	2189	
Bents 78 and 86	1	323	95	"	9	0	855	0	"		
	1	330	1	½"ϕ	7	3	7	3	0.67		
	1	333	1	"	8	3	8	3	"		
	1	336	1	"	9	9	9	9	"		
	2	345	3	"	13	9	82	6	"	324	
	2	346	3	"	14	6	87	0	"		
	2	347	3	"	14	9	88	6	"		
	2	350	3	"	16	0	96	0	"		
	2	353	3	"	17	6	105	0	"		
	1	357	4	⅜"ϕ	28	0	112	0	0.38	70	
	1	358	2	"	36	0	72	0	"		
	2	363	4	1"□	24	0	192	0	3.4	653	
	2	366	2	⅜"ϕ	24	0	96	0	0.38	36	
	2	306	4	1"□	26	0	208	0	3.4	1414	
	2	307	4	"	26	0	208	0	"		
	1	310	6	⅜"ϕ	3	9	22	6	0.38	9	
	2	312	6	½"ϕ	34	0	408	0	0.67		
	2	317	6	"	15	0	180	0	"	667	
	2	321	22	"	9	3	407	0			
	1	322	90	¾"ϕ	7	9	697	6	1.5	2423	
Bents 79 and 85	1	323	102	"	9	0	918	0	"		
	1	330	1	½"ϕ	7	3	7	3	0.67		
	1	333	1	"	8	3	8	3	"	17	
	1	336	1	"	9	9	9	9	"		
	1	357	4	⅜"ϕ	28	0	112	0	0.38	70	
	1	358	2	"	36	0	72	0	"		
	2	362	4	1"□	18	6	74	0	3.4	252	
	2	365	2	⅜"ϕ	14	0	28	0	0.38	11	
		312	6	½"ϕ	34	0	816	0	0.67		
		316	6	"	20	0	480	0	"	1414	
		321	22	"	9	3	814	0	"		
		322	47	¾"ϕ	7	9	1457	0	1.5	4724	
Bents 80,81,83 and 84		323	47	"	9	0	1692	0	"		
	4	330	1	½"ϕ	7	3	29	0	0.67		
		333	1	"	8	3	33	0	"	68	
		336	1	"	9	9	39	0	"		
		366	2	⅜"ϕ	24	0	192	0	0.38	164	
		367	2	"	30	0	240	0	"		
		368	4	1"□	26	0	416	0	3.4		
		375	4	"	31	0	496	0	"	4189	
		302	4	"	28	0	112	0	"		
		306	8	"	26	0	208	0	"		
		314	13	½"ϕ	30	0	390	0	0.67		
		315	2	"	25	0	50	0	"		
		316	1	"	20	0	20	0	"		
		317	1	"	15	0	15	0	"	654	
		318	1	"	11	0	11	0	"		
		321	53	"	9	3	490	3	"		
		322	43	¾"ϕ	7	9	333	3	1.5	1080	
		323	43	"	9	0	387	0	"		
		330	9	½"ϕ	7	3	65	3	0.67		
		333	7	"	8	3	57	9	"		

BILL OF MATERIAL FOR DWG. Nº B-4-46 CONT'D.

Bent	Number of Bents	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		335	6	½"ϕ	9	3	55	6	0.67		
		336	1	"	9	9	9	9	"		
Bent 82		337	3	"	10	3	30	9	"		
		338	3	"	10	9	32	3	"		
		340	3	"	11	6	34	6	"		
		341	3	"	12	0	36	0	"		
		342	3	"	12	6	37	6	"		
		343	3	"	13	0	39	0	"		
		344	3	"	13	3	39	9	"		
		346	3	"	14	6	43	6	"	548	
		347	3	"	14	9	44	3	"		
		348	3	"	15	0	45	0	"		
		349	3	"	15	6	46	6	"		
		350	3	"	16	0	48	0	"		
		351	3	"	16	6	49	6	"		
		352	3	"	17	0	51	0	"		
		353	3	"	17	6	52	6	"		
		360	4	1"□	32	0	128	0	3.4	870	
		361	4	"	32	0	128	0	"		
		367	8	⅜"ϕ	30	0	240	0	0.38	91	
										44085 #	
									or	22.05 T	

BILL OF MATERIAL FOR DWG. Nº B-4-47 AND B-4-32

		Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
Regular Pilasters	135	403	4	½"ϕ	6	3	3375	0	0.67	2261	
		404	4	¾"ϕ	5	6	2970	0	1.5	4455	
		405	4	⅞"□	6	6	3510	0	2.6	20358	
		406	4	"	8	0	4320	0	"		
Pilasters at Exp. Joint	16	402	4	½"ϕ	4	6	288	0	0.67	193	
		404	4	¾"ϕ	5	6	352	0	1.5	528	
		405	4	⅞"ϕ	6	6	416	0	2.04	1893	
		406	4	"	8	0	512	0	"		
Reg. Pilasters at Outshore End	17	403	4	½"ϕ	6	3	425	0	0.67	285	
		418	8	⅞"□	5	3	714	0	2.6	1856	
Pilasters at Exp. Joint at Outshore End	2	402	4	½"ϕ	4	6	36	0	0.67	24	
		418	9	⅞"□	5	3	84	0	2.6	218	
Pilasters "A"	4	415	4	½"ϕ	7	9	124	0	0.67	83	
		418	8	⅞"□	5	3	168	0	2.6	437	
" "B"	4	416	4	½"ϕ	8	3	132	0	0.67	88	
		418	9	⅞"□	5	3	189	0	2.6	491	
" "C"	1	417	4	½"ϕ	7	5	29	0	0.67	19	
		418	8	⅞"□	5	3	42	0	2.6	109	
Pilasters "A"		404	4	¾"ϕ	5	6	22	0	1.5	33	Near Bent 79
Standard 6" Wall	127	407	37	⅞"ϕ	5	3	24663	9	1.04	25657	Between Regular Pilasters
		411	5	½"ϕ	20	6	13017	6	0.67	8722	
6" Wall near Exp. Joint	15	407	35	⅞"ϕ	5	3	2756	3	1.04	2999	
		408	2	"	4	3	127	6	"		
		410	5	½"ϕ	19	9	1481	3	0.67	992	
		400	158	¾"ϕ	3	6	553	0	1.5	830	Fire Wall and Future Front Wall
		407	590	⅞"ϕ	5	3	3097	6	1.04	3292	
		408	16	"	4	3	68	0	"		
		409	10	½"ϕ	3	3	32	6	0.67		
		412	20	"	23	9	475	0	"	1047	
		413	10	"	24	6	245	0	"		
		414	30	"	27	0	810	0	"		
Fire Wall	4	400	91	¾"ϕ	3	6	1274	0	1.5	1911	
		401	8	1"ϕ	7	9	248	0	2.67	662	
		419	18	½"ϕ	6	6	117	0	0.67	78	
See Dwg. B-4-32		422	40	⅜"ϕ	4	0	160	0	1.5		
		423	20	"	1	9	35	0	"	383	
		424	20	"	3	0	60	0	"		
										79904 #	
									or	39.95 T	

BILL OF MATERIAL FOR DWG. Nº B-4-48

Pile	Nº of Piles	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		450	4	⅞"ϕ	20	0	90000	0	2.04	459000	
		451	4	"	30	0	135000	0	"		
		460	56	⅝"ϕ	5	6	346500		0.38		
		461	1	"	5	3					
		462	1	"	5	0					
		463	1	"	4	9					
		464	1	"	4	6	40500	0	"		
		465	1	"	4	3				150480	
40'0" long 16"x16"	1125	466	1	"	4	0					
		467	1	"	3	9					
		468	1	"	3	6					
		469	1	"	3	3					
		470	1	"	3	0					
		471	1	"	2	9					
		452	2	1"ϕ	23	0	69000	0	2.67	448560	
		453	4	"	33	0	99000	0	"		
		460	61	⅝"ϕ	5	6	251625	0	0.38		
		461	1	"	5	3					
		462	1	"	5	0					
		463	1	"	4	9					
45'0"	750	464	1	"	4	6					
		465	1	"	4	3	83000	0	"	108158	
16"x16"		466	1	"	4	0					
		467	1	"	3	9					
		468	1	"	3	6					
		469	1	"	3	3					
		470	1	"	3	0					
		471	1	"	2	9					
		454	4	1⅛"ϕ	26	0	35152	0	3.38	292465	
		455	4	"	38	0	51376	0			
		460	67	⅝"ϕ	5	6	124553	0	0.38		
		461	1	"	5	3					
		462	1	"	5	0					
		463	1	"	4	9					
		464	1	"	4	6					
50'0"	338	465	1	"	4	3	14872	0	"	52982	
		466	1	"	4	0					
16"x16"		467	1	"	3	9					
		468	1	"	3	6					
		469	1	"	3	3					
		470	1	"	3	0					
		471	1	"	2	9					
		456	4	1¼"ϕ	38	0	51984	0	4.17	355109	
		457	4	"	24	3	33174	0	"		
		472	79	⅜"ϕ	6	0	162108	0	0.38		
		473	1	"	5	9					
		474	1	"	5	6					
		475	1	"	5	3					
		476	1	"	5	0					
55'0"	342	477	1	"	4	6	16330	6	"		
		478	1	"	4	3				67807	
18"x18"		479	1	"	4	0					
		480	1	"	3	9					
		481	1	"	3	6					
		482	1	"	3	3					
		483	1	"	3	0					

BILL OF MATERIAL FOR DWG. Nº B-4-48 CONT'D.

Pile	Nº of Piles	Mark	Number Reqd.	Size	Length Ft.	Length In.	Tot. Length Ft.	Tot. Length In.	Wt. per Ft.	Total Wt.	Remarks
		458	4	1¼"ϕ	40	0	141920	0	4.17	1028565	
		459	4	"	29	3	103779	0	"		
		472	84	⅜"ϕ	6	0	441048	0	0.38		
		473	1	"	5	9					
		474	1	"	5	6					
		475	1	"	5	3					
60'0"		476	1	"	5	0					
	887	477	1	"	4	6	147354	3	"	1859713	
18"x18"		478	1	"	4	3					
		479	1	"	4	0					
		480	1	"	3	9					
		481	1	"	3	6					
		482	1	"	3	3					
		483	1	"	3	0					
										3145099 #	
									or	1572.55 T	

Total weight of Drawing Nº	B-4-36	454.45 T					
" " " " "	B-4-37	133.77					
" " " " "	B-4-38	6.67					
" " " " "	B-4-39	202.95					
" " " " "	B-4-40	59.14					
" " " " "	B-4-41	189.10					
" " " " "	B-4-42	6.66					
" " " " "	B-4-43	18.05					
" " " " "	B-4-44	484.10					
" " " " "	B-4-45	6.63					
" " " " "	B-4-46	22.05					
" " " " "	B-4-47	39.95					
Total Drwg.	B-4-48	1623.57 T					
		1572.55 (Piles)					
Total		3196.12					

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA

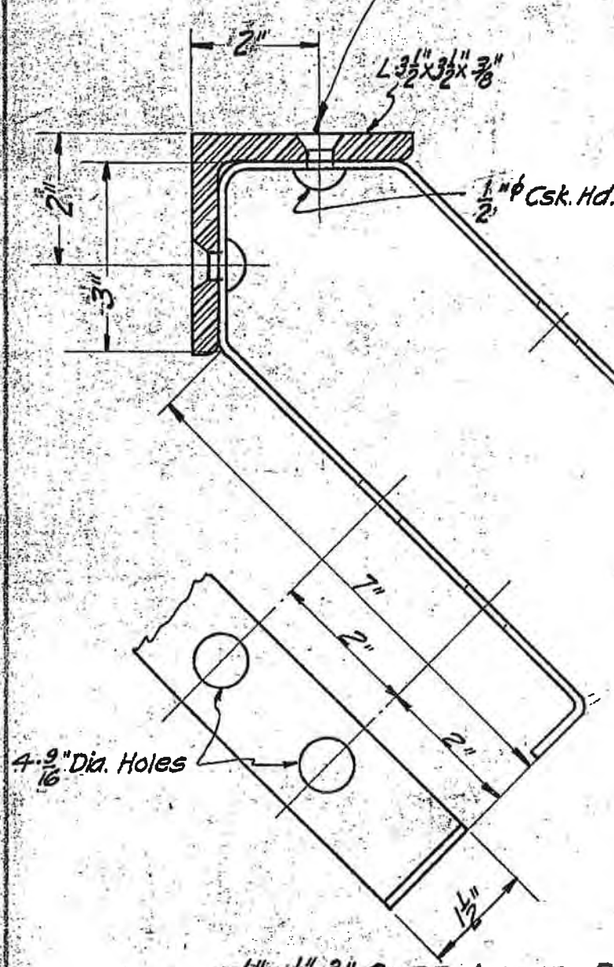
CONCRETE WHARF - PIER #2
BILL OF MATERIAL FOR REINFORCING STEEL - SHEET 4 OF 4 SHEETS

SCALE:
DATE: OCT. 18, 1935
RECOMMENDED: A. Dan E. Rowe
DEPUTY ENGINEER
APPROVED: W. L. Lyles
CHAIRMAN

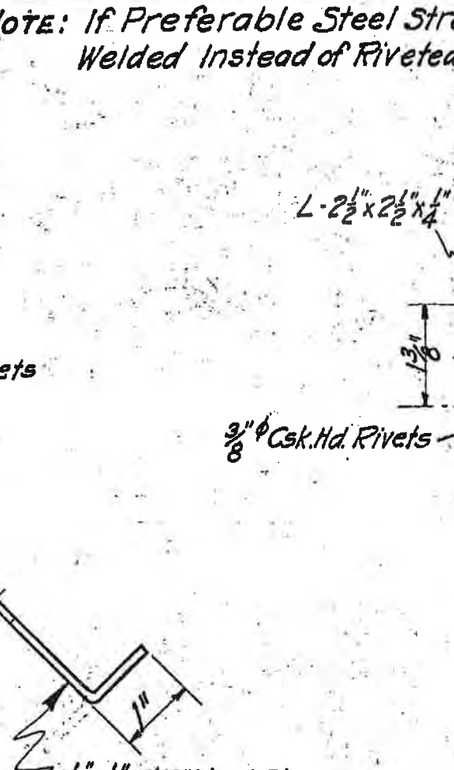
DRAWN BY E. W. C.
TRACED BY
CHECKED BY E. W. Carothers

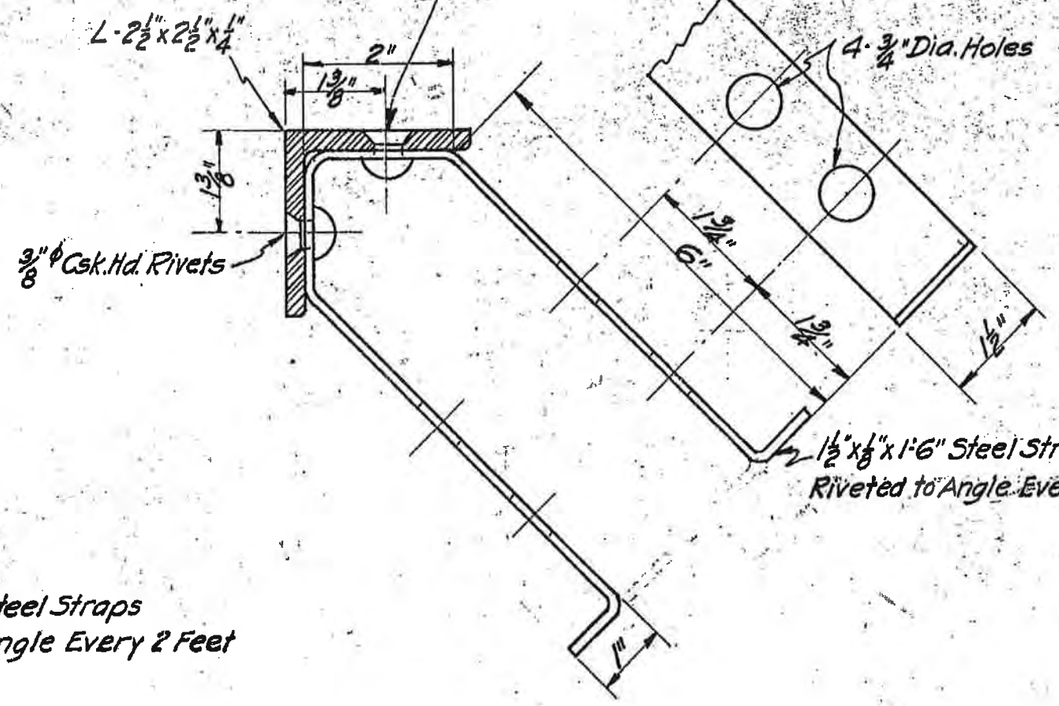
B-4-52

NOTE: If Preferable Steel Straps May Be Welded Instead of Riveted To Curb Angle



3½"x3½"x⅜" CURB ANGLE - DETAIL "A"





2½"x2½"x¼" CURB ANGLE - DETAIL "B"

Revised - Jan. 9, 1926

Note: This is not suitable for a 6" slab B/S.

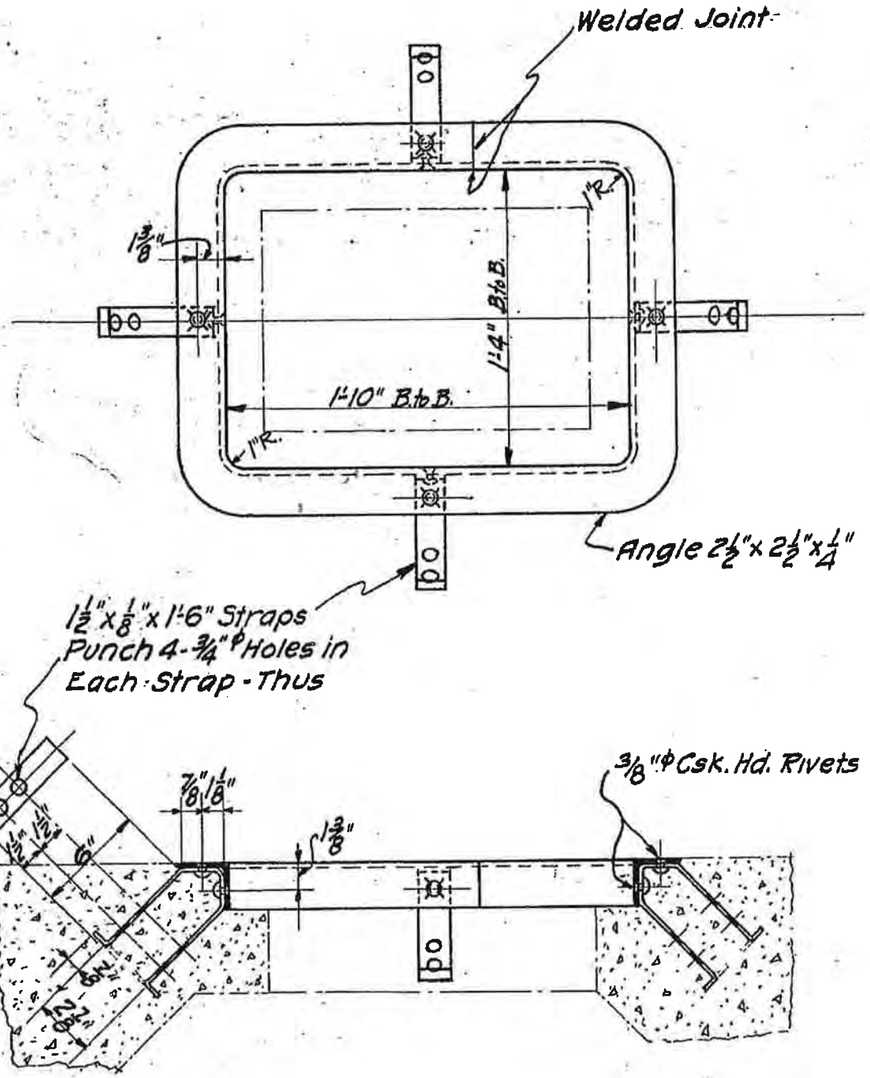
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
CURB ANGLES

SCALE: 6"=1'0" DRAWN BY W.L.H.
DATE: Oct. 15, 1925 CHECKED BY E.W.C.
APPROVED:

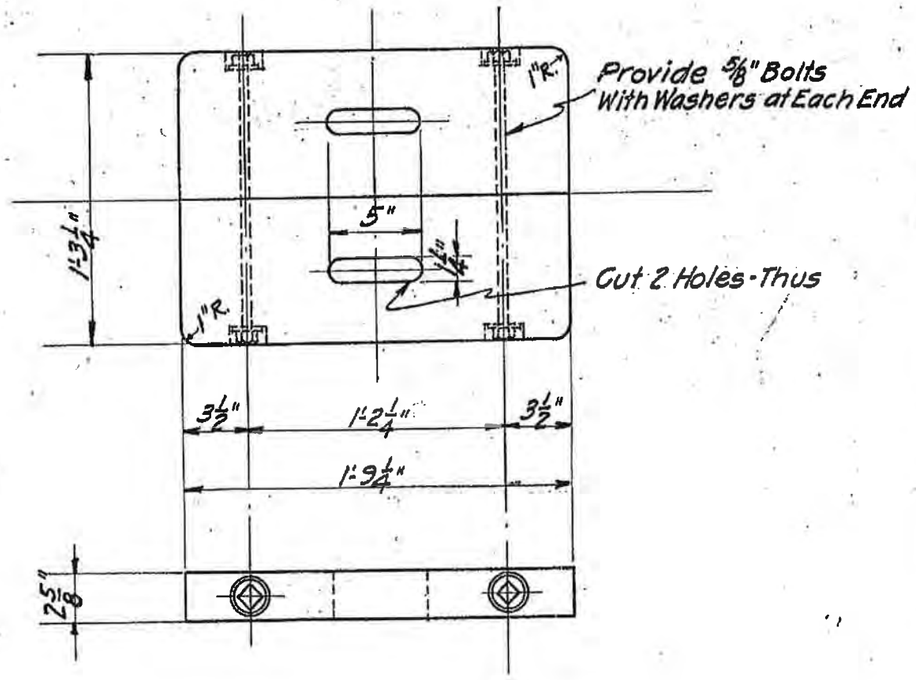
CHAIRMAN

B-3-42 a



MAN HOLE FRAME

NOTE: If Preferable Steel Straps May Be Welded Instead of Riveted to Curb Angle



MAN HOLE COVER

HARD WOOD

Revised - Jan. 9, 1926

This Frame Used in Connection With Water Service Lines Only.

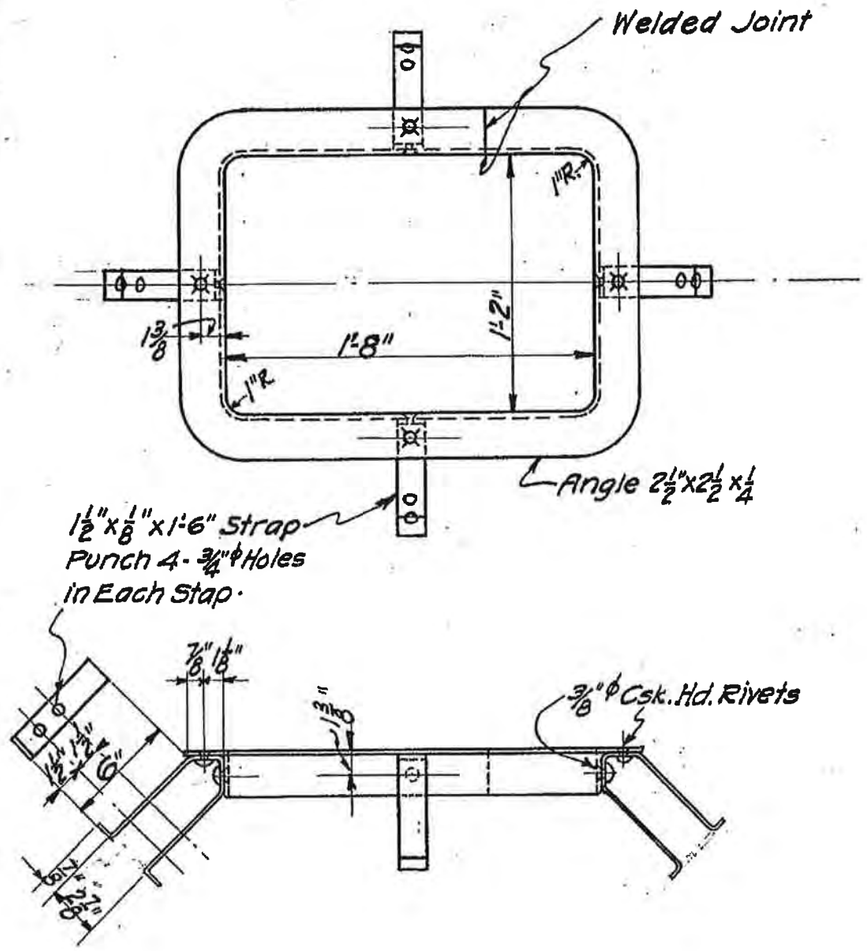
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
MANHOLE FRAME & COVER

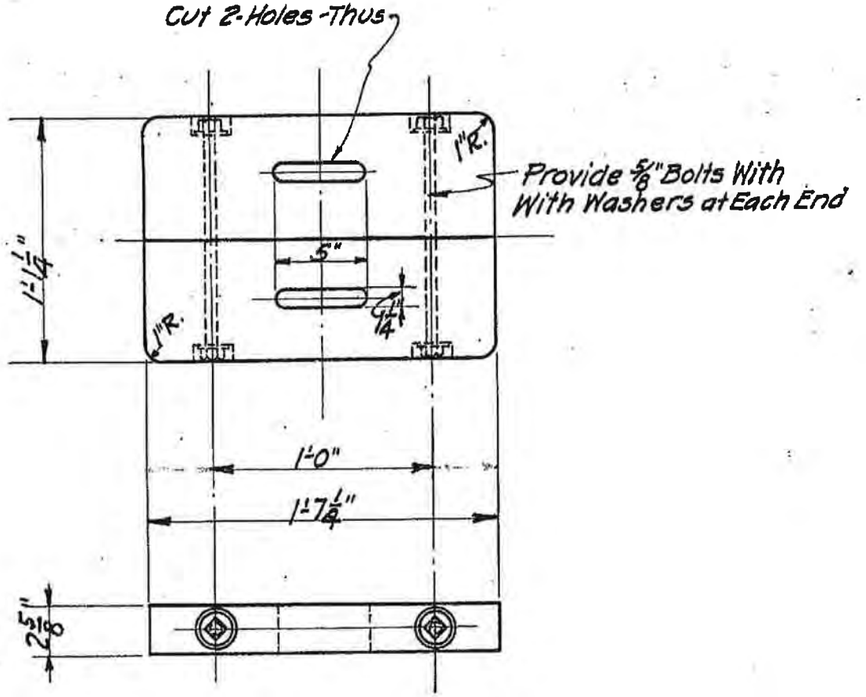
SCALE: 1½"=1:0"
DATE: OCT 15 1925
APPROVED:
CHAIRMAN

DRAWN BY W.L.H.
CHECKED BY E.W.C.

B-3-43a



MAN HOLE FRAME



MAN HOLE COVER
HARD WOOD

NOTE - If Preferable Steel Straps May Be Welded Instead of Riveted To Curb Angles.

Revised - Jan. 9, 1926

This Frame Used in Connection With Electric Service Lines Only

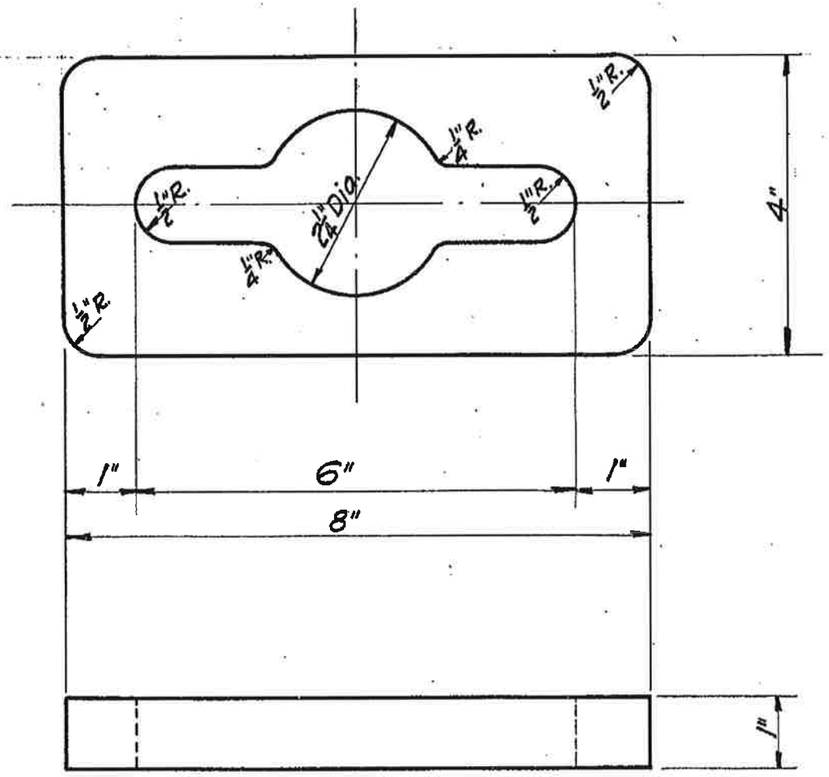
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
MANHOLE FRAME & COVER

SCALE: 1 1/2" = 1'-0"
DATE:
APPROVED:
DRAWN BY W.L.H.
CHECKED BY E.W.C.

CHAIRMAN

B-3-44a



KEY HOLE PLATE

Cast Iron –

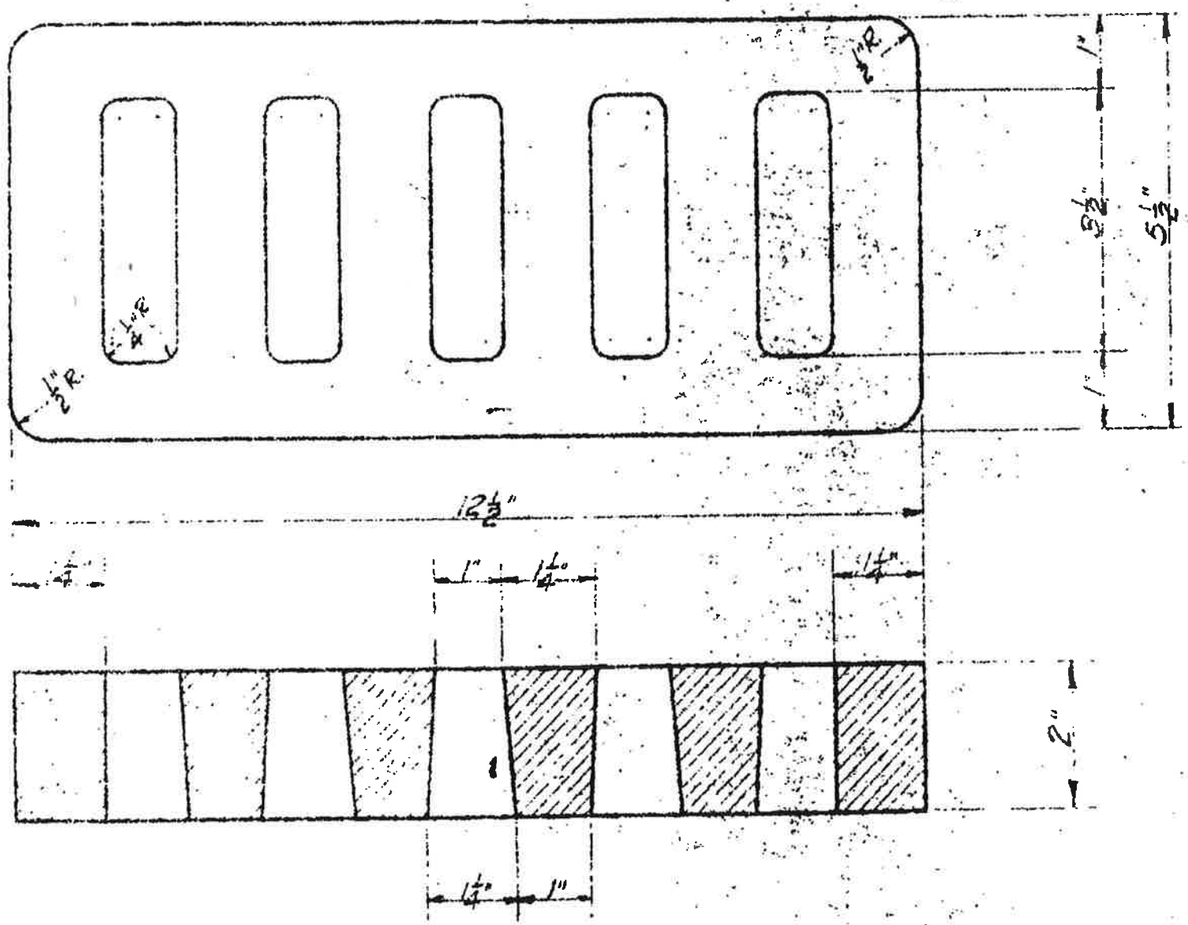
ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
KEY HOLE PLATE

SCALE: 6"=1'-0"
DATE: Oct. 15, 1925
APPROVED:
CHAIRMAN

DRAWN BY: W.L.H.
CHECKED BY: E.W.C.

B-3-45a.



VENT GRATING
Cast Iron

ALABAMA
STATE DOCKS COMMISSION
MOBILE, ALABAMA.

CONCRETE WHARF
VENT GRATING

SCALE: 6"=1'0"
DATE: Oct. 15, 1945
APPROVED:

CHAIRMAN

B-3-46a