

CONTRACT DOCUMENTS
FOR THE

BOAT LIFTS AT THE OCEAN SPRINGS HARBOR

OCEAN SPRINGS, MS

PREPARED FOR THE

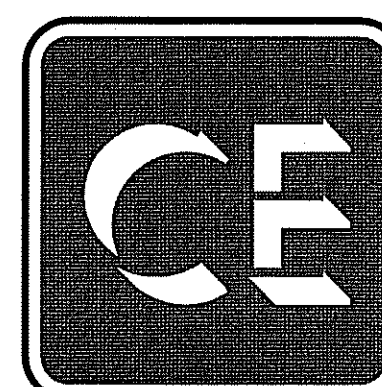
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES



DMR PROJECT NO. 1450-17-R-IFBD-00003
VOLUME 2

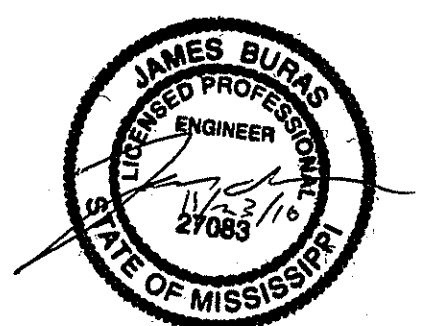
JULY 2016

For information regarding
This contract, contact:



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PROJECT MANAGER: G. JOEY DUGGAN, CCCA



CE JOB No. 216-015
REV C - ISSUED FOR BID

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33. LOCATE WIRE AND TAPE MUST BE INSTALLED WITH ALL WATER AND SEWER MAINS AS PER DETAIL ON D1.4.
34. ALL PAVEMENT, CONCRETE AND CURBING TO BE REMOVED SHALL BE SAWCUT AT EDGES FOR SMOOTH TRANSITION.
35. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING, AS NECESSARY, ALL UTILITY BOXES, INLET GRATES, VALVE BOXES, MANHOLE LIDS, ETC. THAT ARE DISTURBED WITHIN THE AREA OF WORK.

1. CONTRACTOR SHALL LOCATE PROPERTY LINES AND/OR RIGHT-OF-WAY LINES AS REQUIRED TO AVOID ENCROACHMENT ONTO ADJACENT PROPERTY. CONTRACTOR SHALL INVESTIGATE FOR EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER IN THE EVENT OF ANY CONFLICTS.
2. CONTRACTOR TO USE BENCH MARKS (BM) AS SHOWN ON THE PLANS FOR HORIZONTAL AND VERTICAL CONTROL. NOTIFY ENGINEER OF ANY CONFLICTS.
3. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ANY CONSTRUCTION THAT JULY DAMAGE TREES, WHICH ARE NOT MARKED OR INDICATED ON THE DRAWINGS TO BE REMOVED.
4. CONTRACTOR IS TO COORDINATE ALL WORK WITH THE UTILITY COMPANIES IN ORDER TO PREVENT DAMAGE TO UTILITY LINES AND THE MAKING OF ADJUSTMENTS TO SAME, IF REQUIRED. THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY OWNERS PRIOR TO CONSTRUCTION. LOCATION, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THIS INFORMATION AND BE FAMILIAR WITH ALL SITE CONDITIONS (INCLUDING SUB-SURFACE CONDITIONS AND UNDERGROUND CONDITIONS) THIS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHETHER OR NOT SHOWN HEREON. THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND UTILITY NOTIFICATION CENTER (1-800-227-6477) PRIOR TO COMMENCING THE WORK.
5. WITHIN THE LIMITS OF THE PROJECT AREA, PERFORM THE FOLLOWING:
 - A. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
 - B. UNSUITABLE EXCAVATION SHALL BE DISPOSED OF OFF THE PROJECT SITE BY THE CONTRACTOR. THIS SHALL INCLUDE A MAJORITY OF THE UNCLASSIFIED EXCAVATION. RETAIN TPOIL, IF ANY, FOR USE ONSITE AND SUITABLE MATERIAL, IF ANY, FOR FILL.
 - C. REFORM ALL EARTHWORK DESCRIBED ABOVE BEFORE TRENCHING FOR UTILITIES, STORM DRAINAGE, GRADE BEAMS, MECHANICAL LINES, ETC.
 - D. MAINTAIN SUB-GRADE AND THE FILL AT OPTIMUM INSITU MOISTURE CONTENT AFTER COMPLETION OF FILL PLACEMENT. THE ENGINEER SHALL BE CONSULTED FOR MEANS AND METHODS OF ACCOMPLISHING THE ABOVE THROUGHTOUT THE CONSTRUCTION PHASE UNTIL ALL WORK IS COMPLETE. THIS JULY INCLUDE DRYING OR WETTING PROCESSES DEPENDING ON THE INTRODUCTION OR EVAPORATION OF MOISTURE DUE TO IMPROVE THE SUB-GRADE AND FILL AREAS, WHICH ARE NOT ACCEPTABLE TO THE ENGINEER.
6. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH STATE AND LOCAL ORDINANCES AND BUILDING REGULATIONS.
7. ALL HANDICAP PARKING FACILITIES TO BE IN ACCORDANCE WITH ADA CODES.
8. ALL DIMENSIONS ARE TO OUTSIDE WALL OF BUILDING AND BACK OF CURB UNLESS OTHERWISE NOTED.
9. CONTRACTOR IS NOT TO PRESSURE TEST AGAINST ANY CITY INSTALLED FITTINGS.
10. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, ETC. WITH MATERIALS OF THE SAME TYPE OR BETTER THAN THAT REMOVED DURING CONSTRUCTION.
11. CONTRACTOR SHALL STOCK PILE TPOIL FOR SUBSEQUENT USE FOR GRASSING AND LANDSCAPING ITEMS.
12. IN ACCORDANCE WITH GOVERNING STATE AND LOCAL REGULATIONS, EXISTING TREES JULY BE TRIMMED AS NEEDED (WITHIN 9' OF GROUND) FOR VEHICLE CLEARANCE. NOTIFY ENGINEER PRIOR TO TRIMMING.
13. GRASS BY MEANS OF SOD AND/OR SEED (ALL DISTURBED AREAS.)

1. ALL CONCRETE FOR FOUNDATIONS AND SLABS SHALL BE 4000 PSI (@ 28 DAYS). LAP CONTINUOUS UNSCHEDULED REINFORCING BARS 30 DIAMETERS UNLESS OTHERWISE NOTED. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS UNLESS APPROVED BY THE ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE MADE WITH VERTICAL BULKHEADS. THE ENGINEER SHALL APPROVE THE LOCATION OF CONSTRUCTION JOINTS PRIOR TO SCHEDULING POURS.
2. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF ACI 318, CRSI AND THE INTERNATIONAL BUILDING CODES.
3. SUBMIT MIX DESIGN FOR APPROVAL. THIS SUBMITTAL SHALL CONFORM TO SECTION 5.3 OF THE ACI 318-11 AND CHAPTER 19 OF THE 2012 INTERNATIONAL BUILDING CODES.
4. CONCRETE SURFACES TO BE BROOM FINISHED.

1. VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING PROPERTY AT THE JOB SITE.
2. COORDINATE STRUCTURAL DRAWINGS, FLOOR ELEVATIONS, SLOPES AND THE LOCATION OF DEPRESSED FLOOR AREAS WITH ARCHITECTURAL DRAWINGS.
3. THE CONTRACTOR SHALL COMPARE STRUCTURAL DIMENSIONS AND SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ENGINEER PRIOR TO FABRICATION OR INSTALLING STRUCTURAL MEMBERS.
4. THE CONTRACTOR SHALL COMPARE DIMENSIONS OF ALL EQUIPMENT WITH THE DRAWINGS AND REPORT ANY DISCREPANCY TO THE ENGINEER PRIOR TO PLACEMENT OF THE FOUNDATIONS.
5. DO NOT INSTALL PLUMBING PIPES IN GRADE BEAM TRENCHES. DO NOT PENETRATE GRADE BEAM WITHOUT ENGINEER APPROVAL.

1. ALL PRESTRESSED CONCRETE PILES SHALL HAVE CONCRETE STRENGTH (f'_c) OF 5000 PSI OR GREATER.
2. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF PCI DESIGN HANDBOOK, ACI 318, CRSI AND THE INTERNATIONAL BUILDING CODES.
3. SUBMIT CONCRETE PILE FOR APPROVAL.

1. ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ANSI/ASTM STANDARD TEST METHODS FOR STRENGTH OF ANCHORS IN CONCRETE AND MASONRY ELEMENTS, DESIGNATION E488-10. THEY SHALL BE INSTALLED SO AS TO DEVELOP WITH A MAXIMUM PROVEN CAPACITY FOR THEIR TYPE AND SIZE, OR THE CAPACITY SHOWN ON TEST DRUMS WITH A MINIMUM FACTOR OF SAFETY OF FOUR. INSTALLATION SHALL BE MADE WITH STRICT ADHERENCE TO THE MANUFACTURER'S RECOMMENDATIONS. ALL ANCHORS SHALL HAVE STANDARD U.S. THREADS (UNC).
2. STUD TYPE ANCHORS SHALL BE GALVANIZED. EACH ANCHOR SHALL BE PROVIDED WITH A TYPE 316 STAINLESS STEEL NUT W/ WASH OF THE PROPER SIZE. ANCHORS SHALL BE PARABOLT MADE BY USM CORP., TEMPLE, PA; KWIK-BOLT MADE BY HILTI FASTENING SYSTEMS, STAMFORD, CT; OR WEDGE TYPE STUD BOLT ANCHOR BY STAR EXPANSION INDUSTRIES CORP., MOUNTAINVILLE, N.Y.
3. INTERNALLY THREADED TYPE ANCHORS SHALL BE MADE FROM HIGH-STRENGTH STEEL WITH A PROPER RESISTANCE TO CORROSION. ANCHORS SHALL BE PROVIDED WITH A GALVANIZED WASHER AND BOLT OF THE PROPER SIZE AND LENGTH UNLESS OTHERWISE NOTED OTHERWISE ON DRAWINGS. ANCHORS MAY BE SELF DRILLING OR DROP-IN TYPE; SELF DRILL SHIELD OR PLUG TYPE MADE BY HILTI FASTENING SYSTEMS, STAMFORD, CT; MULTI-SET OF SELF DRILLING ANCHORS MADE BY JTT PHILLIPS DRILL DIVISION, MICHIGAN CITY, IN.

1. ALL PRESTRESSING STRANDS SHALL HAVE 270 KSI ULTIMATE TENSILE STRENGTH AND SHALL CONFORM TO ASTM A615. DETAILING OF REINFORCING STEEL SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL AND PCI HANDBOOK.

1. ALL SCREWS TO BE STAINLESS STEEL 304 WOOD SCREWS.
2. ALL BOLTS TO BE HOT DIPPED GALVANIZED A307 TIMBER BOLTS WITH OGEE WASHERS
3. ALL BOLT CONNECTIONS TO BE PILOT DRILLED.

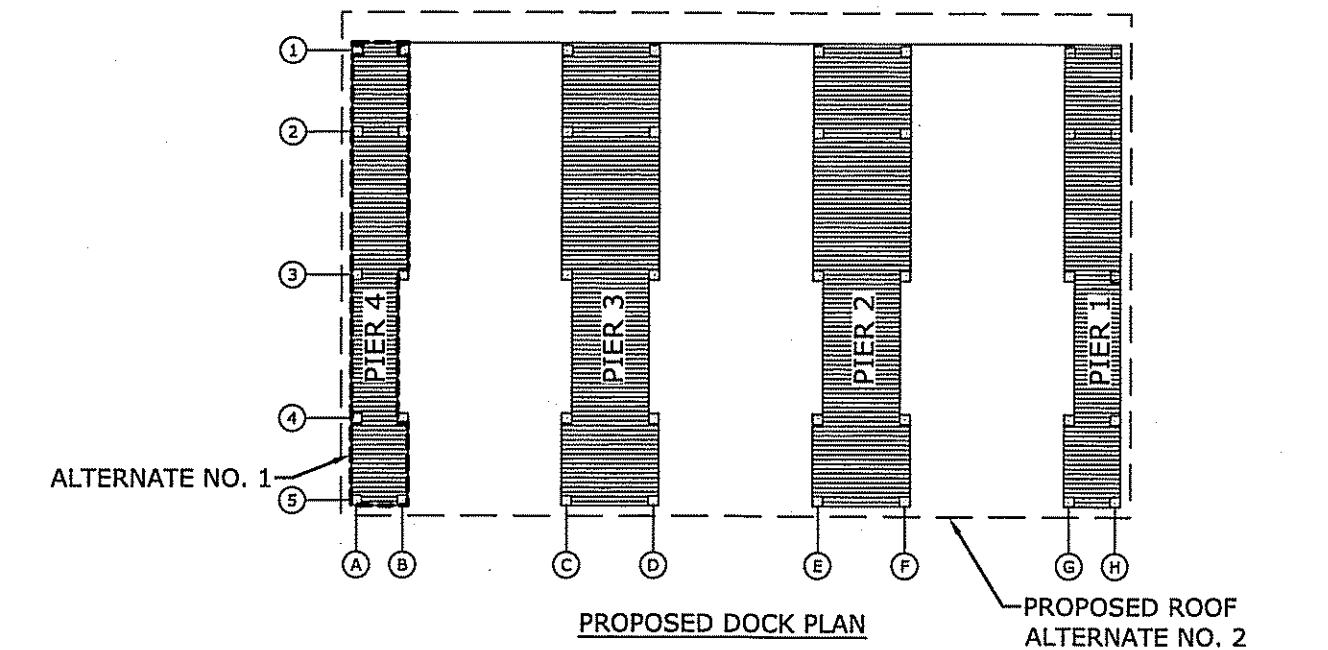
1. ALL LUMBER EXCEPT T&G ROOF DECKING AND PIER DECK BOARDS SHALL BE "DRESSED" SAWN VISUALLY GRADATED SELECT STRUCTURAL SOUTHERN PINE, BY THE SPIB, UNLESS NOTED OTHERWISE
2. ALL LOAD PATH AND WOOD-TO-WOOD PRE-ENGINEERED METAL CONNECTORS SHALL BE BY SIMPSON STRONG-TIE WITH A316 STAINLESS STEEL OR APPROVED EQL AND INSTALLED WITH THE MAXIMUM NUMBER OF FASTENERS PER MANUFACTURERS INSTRUCTIONS.
3. ALL WOOD FRAMING FASTENERS, NOT DETAILED ON PLANS SHALL MEET MINIMUM REQUIREMENTS OF THE FASTENING SCHEDULE IN CHAPTER 23 OF THE INTERNATIONAL BUILDING CODE 2012, U.N.O.
4. ALL PRESSURE TREATED (PT) LUMBER SHALL BE AS SPECIFIED AND PER AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) NATIONAL DESIGN STANDARDS.
5. MOISTURE CONTENT OF LUMBER SHALL BE 19% OR LESS AT TIME OF DELIVERY TO SITE OR CONTRACTORS STORAGE FACILITY.
6. FOR WOOD-TO-WOOD BOLTED CONNECTIONS, THE HOLE SIZE SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. HOLES SHALL BE DRILLED WITH A SHARP DRILL BIT, PROPER DRILL SPEED AND SLOW RATE OF FEED TO PROVIDE A SMOOTH SURFACED HOLE. CONNECTIONS SHALL BE ALIGNED SO THAT ONLY A LIGHT TAPPING IS REQUIRED TO INSERT THE BOLT. ALL BOLTS SHALL HAVE WASHERS AT BOLT HEAD & NUT, U.N.O.
7. ALL FASTENERS IN CONTACT WITH TREATED LUMBER OR EXPOSED TO THE WEATHER SHALL BE A316 STAINLESS STEEL, U.N.O. BOLTED PILE AND POST CONNECTIONS TO BE HOT-DIPPED GALVANIZED BOLTS, NUTS, AND WASHERS.
8. ALL DECKING AND RAILING SHALL BE FASTENED WITH STAINLESS STEEL SCREWS. PICKETS TO BE FASTENED WITH 6D RING-SHANK STAINLESS STEEL NAILS.
9. TOE NAILS SHALL BE DRIVEN AT AN ANGLE OF APPROXIMATELY 30° AND STARTED APPROXIMATELY 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.
0. ALL EXTERIOR WALL STUDS SHALL BE TIED AT TOP & BOTTOM PLATES W/ SIMPSON CONNECTORS AS INDICATED IN DETAILS.
1. ALL GLULAM LUMBER TO BE PRESSURE TREATED SOUTHERN PINE 24F-1.8 E BALANCED.
2. TONGUE AND GROOVE DECKING TO BE SOUTHERN PINE #1 OR BETTER WITH SIMPLE SPAN LAYOUT.
3. PIER DECK BOARDS TO BE SOUTHERN PINE #1 OR BETTER.

ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 BUILDING CODE - INTERNATIONAL BUILDING CODE 2012
 STRUCTURAL WOOD CODE: ANSI / AF&PA, NDS-2005
 ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES

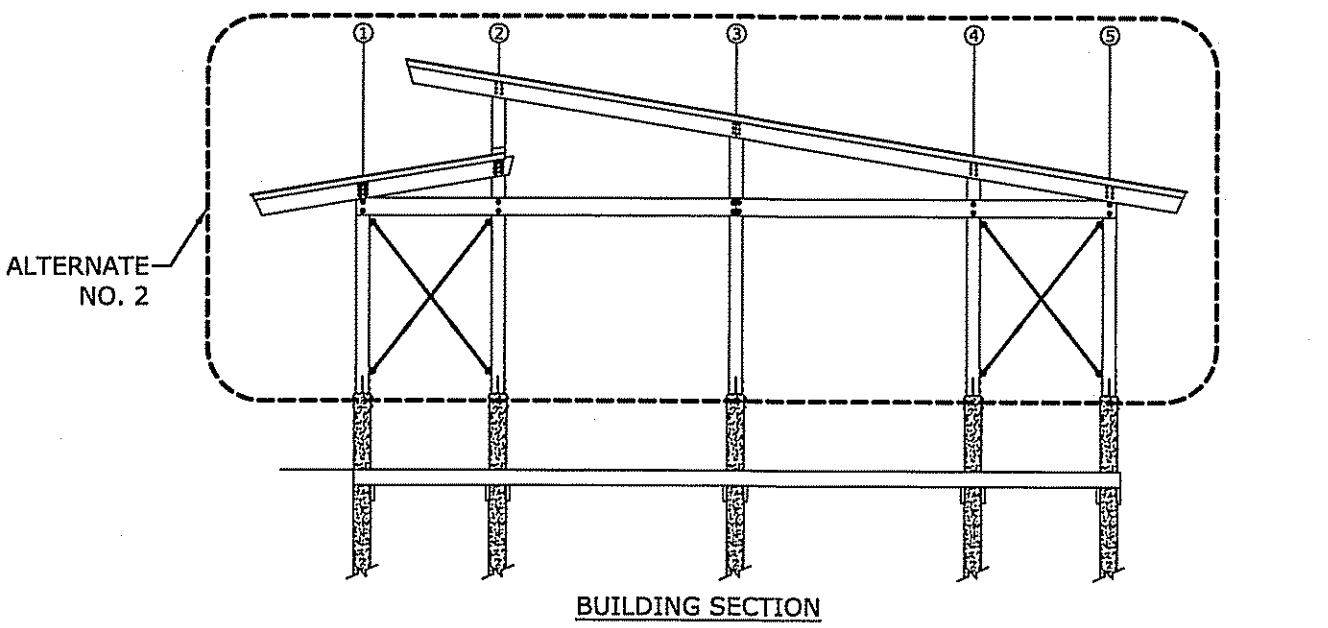
DESIGN LOADS:
ROOF LL = 20 PSF
FLOOR LL = 60 PSF

WIND LOAD:
BASIC WIND SPEED: 150 MPH
EXPOSURE CATEGORY: D
RISK CATEGORY: I

ALTERNATE NO. 1: PIER 4 -
THIS ALTERNATE INCLUDES PROVIDING PIER 4 COMPLETE. THE SCOPE INCLUDES BUT IS NOT LIMITED TO, PILES LOCATED AT 2A, 2B, 3A, 4A, 5A, AND 5B AND THE ASSOCIATED PIER AND FRAMING AND DECKING AT AND BETWEEN PILES.



ALTERNATE NO. 2: BOAT SHELTER - THIS ALTERNATE INCLUDES PROVIDING THE TREATED WOOD SHELTER COMPLETE. THE SCOPE INCLUDES, BUT IS NOT LIMITED TO, ALL VERTICAL WOOD COMPONENTS ABOVE THE TOP OF PILES, ROOF DECKING, LIGHTING, AND SIGN BETWEEN COLUMN LINES "D" AND "E".



BASE BID: THE SCOPE OF THE BASE BID SHALL INCLUDE ALL WORK INCLUDED IN THE PROJECT MANUAL EXCLUDING THE WORK DESCRIBED IN ALTERNATES. FOR CLARIFICATION, AT PIER 4 THE PILES LOCATED AT 1A, 1B, 3B, AND 4B ARE INCLUDED IN THE BASE BID. ALL FRAMING NECESSARY TO SUPPORT THE EXISTING DECKING AT 1A AND 1B IS ALSO INCLUDED IN THE BASE BID. ALL PILES SHALL BE PROVIDED TO INCLUDE THE PENETRATIONS, EMBEDS, ETC. REQUIRED TO SUPPORT ALTERNATE NO. 2.

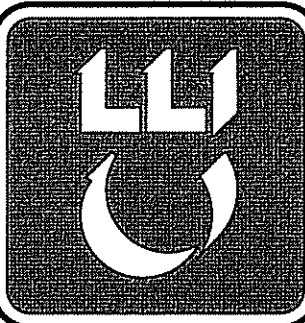
	BENCHMARK		PROPOSED GRAVEL
	REFERENCE POINT		PROPOSED CONCRETE
	EXISTING POWER POLE		EXISTING OVERHEAD POWER
	EXISTING SEWER CLEANOUT		EXISTING PROPERTY LINE
	EXISTING TELEPHONE PEDESTAL		EXISTING SANITARY SEWER
	EXISTING WOOD PILE		EXISTING STORMDRAIN / CULVERT
	PROPOSED CONCRETE PILE		EXISTING UNDERGROUND POWER
	PROPOSED SIGN		EXISTING UNDERGROUND UTILITY
	PROPOSED UTILITY PEDESTAL		EXISTING WATER LINE
	EXISTING ASPHALT		EXISTING 8" WATER LINE
	EXISTING CONCRETE		PROPOSED SILT FENCE
	EXISTING DOCK		PROPOSED WATER LINE
	EXISTING GRAVEL		

Rev.

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MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT THE OCEAN SPRINGS HARBOR

SHEET INDEX, GENERAL NOTES & SYMBOLS LEGEND

VERIFY SCALES: _____
 BAR IS ONE INCH LONG
 AND ONE INCH HIGH
 IF NOT ONE INCH LONG
 OR ONE INCH HIGH,
 SCALE IS AGGRAVATED

SCALE: AS NOTED
 OB NO.: 216-015
 DATE: JULY 2016
 GID: GID
 TWP: TWP
 CHK.:
 APVD.: JAB

JAMES BURAS
 LICENSED PROFESSIONAL
 ENGINEER
 11/23/16
 27083
 STATE OF MISSISSIPPI

0 1"

G2.0

SHEET OF

10/14/16 ISSUED FOR BID				10/17/16 ISSUED FOR BID				12/01/16 ISSUED FOR BID											
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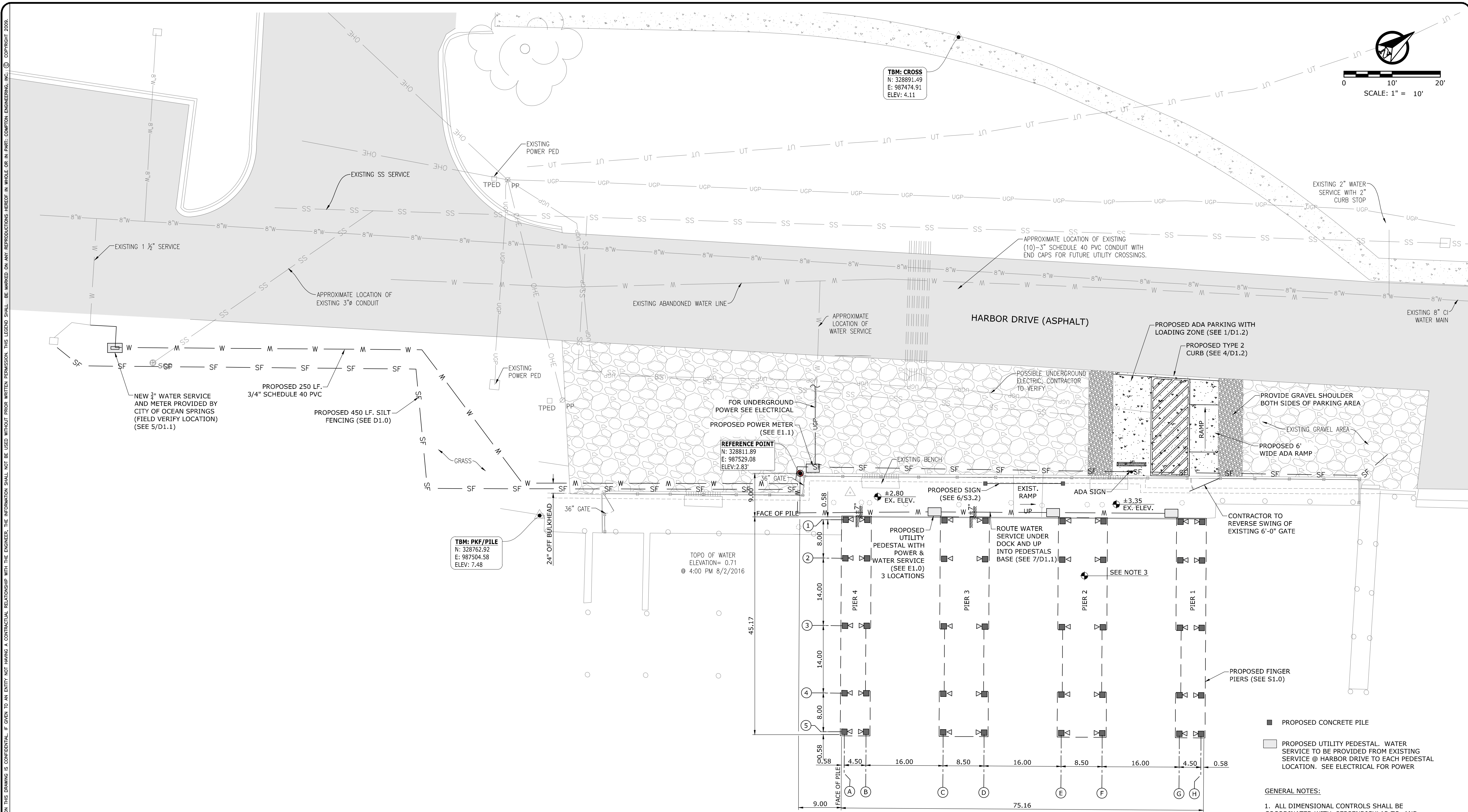


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1
C2.0
PROPOSED SITE / PILING PLAN
SCALE: 1" = 10'

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BOAT LIFTS AT OCEAN SPRINGS HARBOR

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JOB NO.: 216-015
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DWG. BY: TWP
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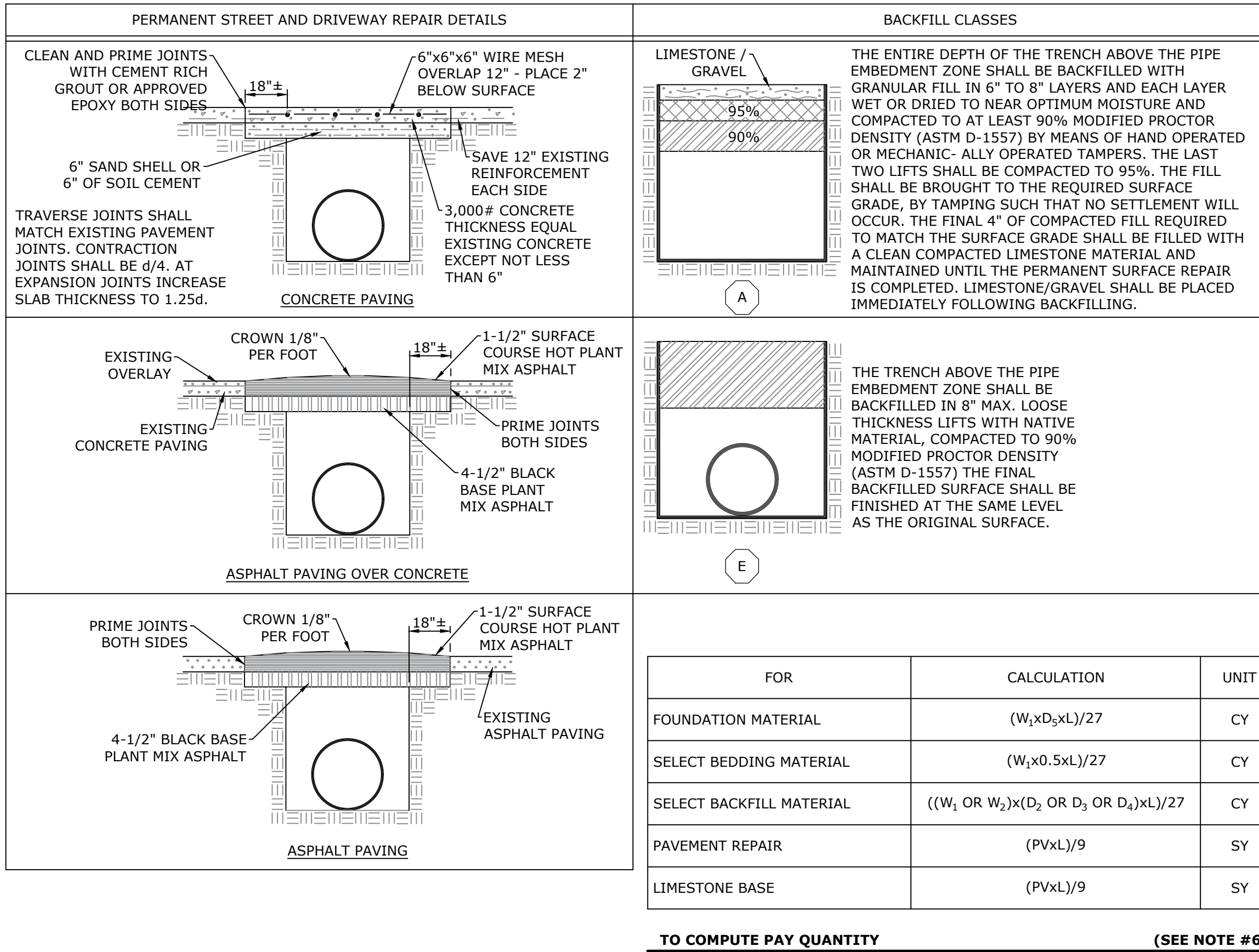
VERIFY SCALES
BAR SCALE: 1" = 10'
GRAPHIC SCALE: 1" = 10'
GRAPHIC SCALE: 1" = 10'

C2.0
SHEET OF

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DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD

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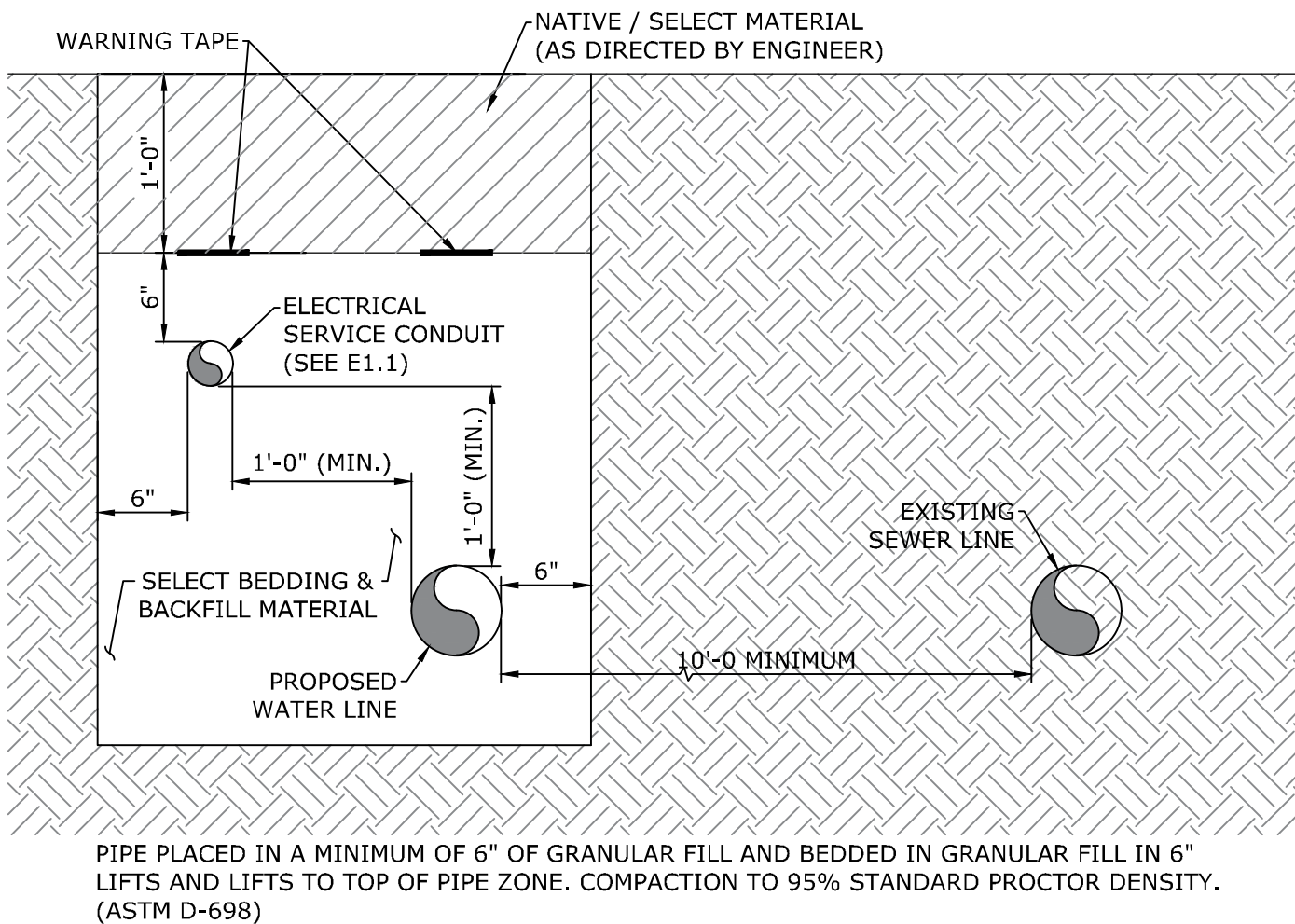
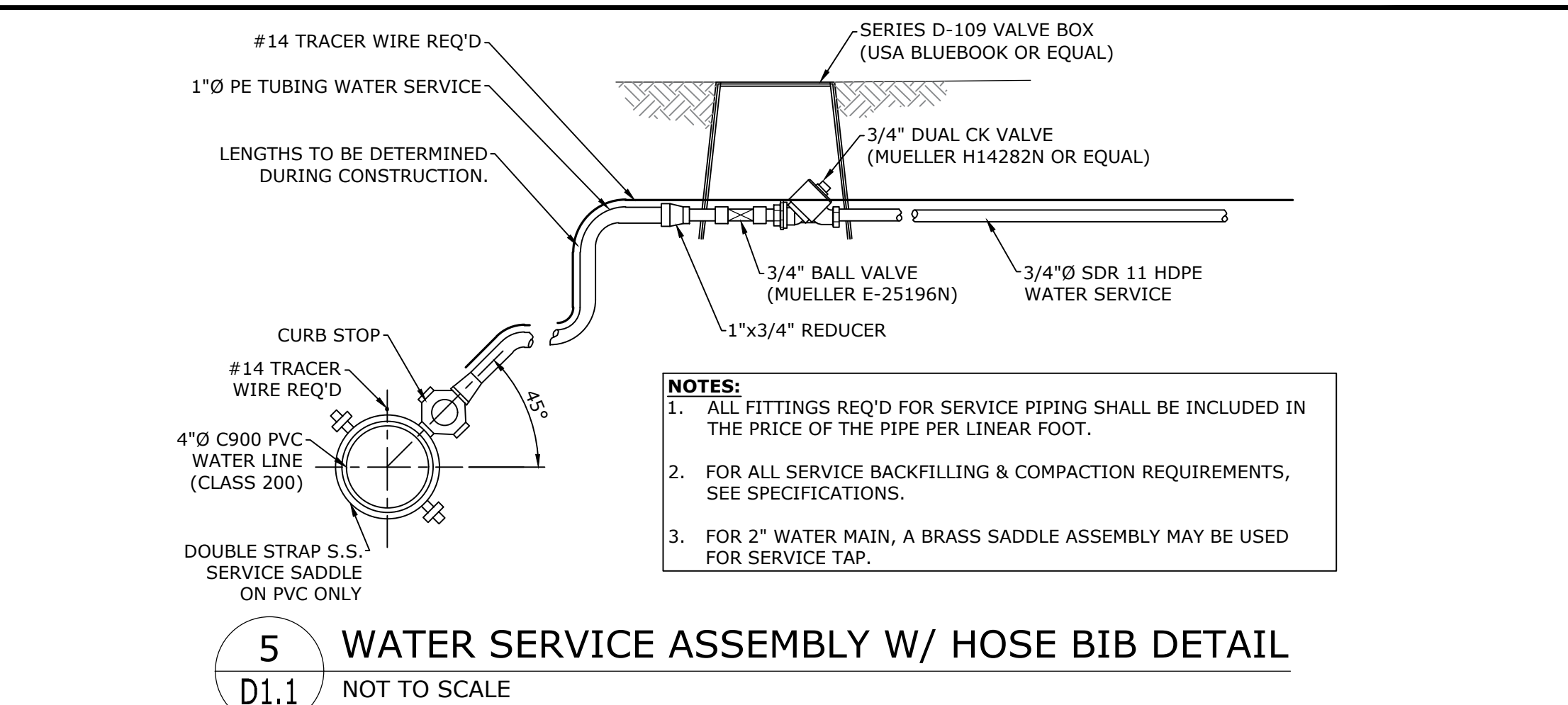
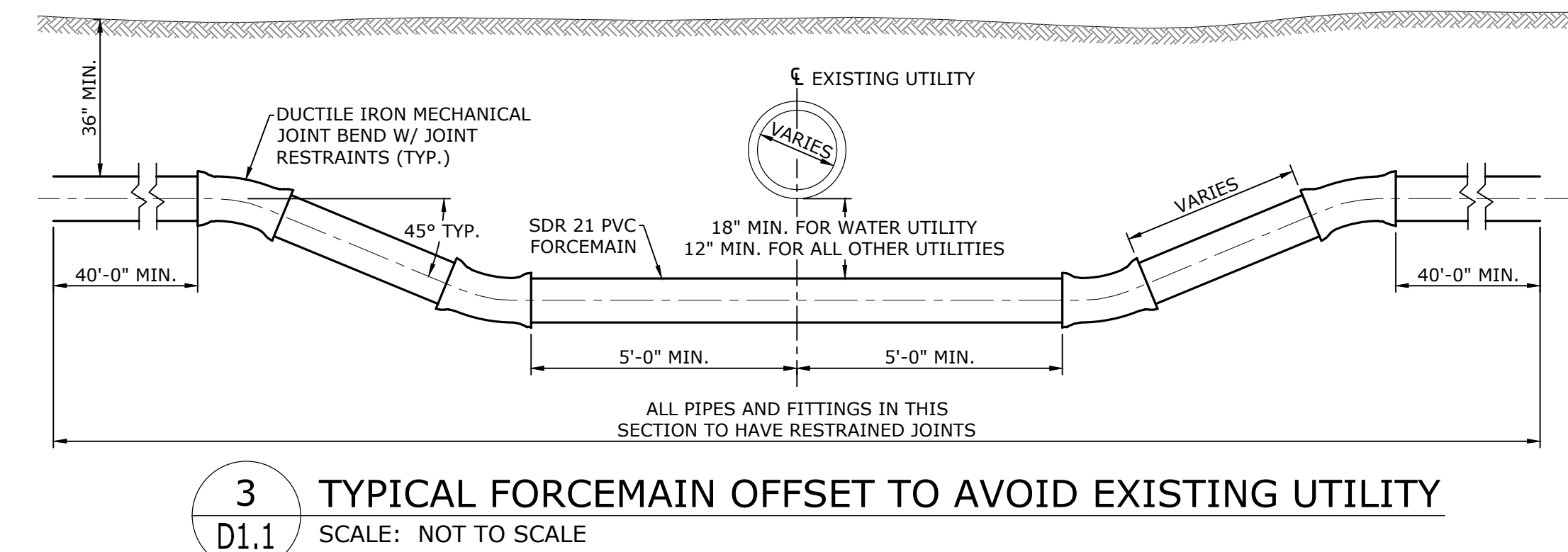
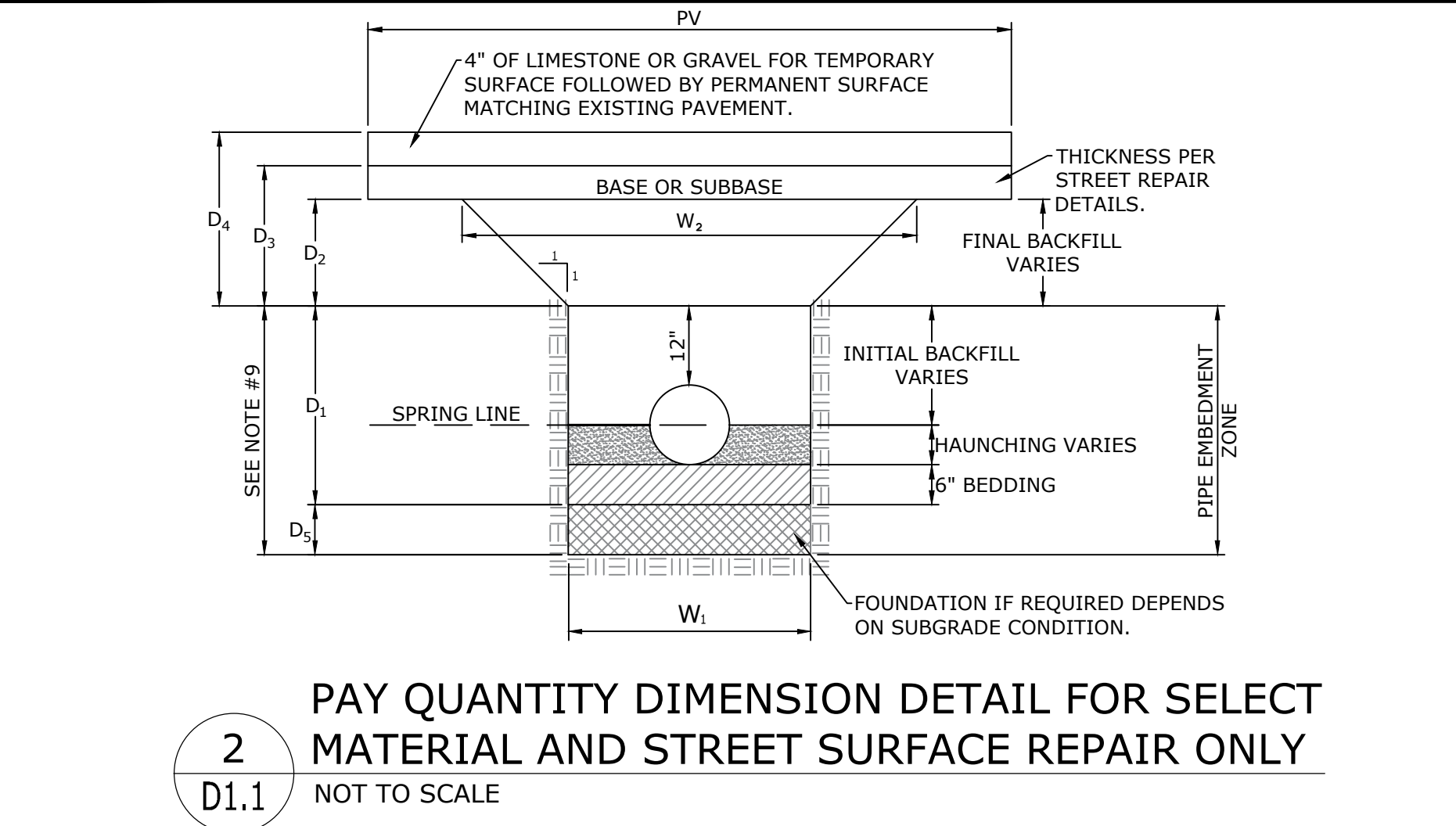
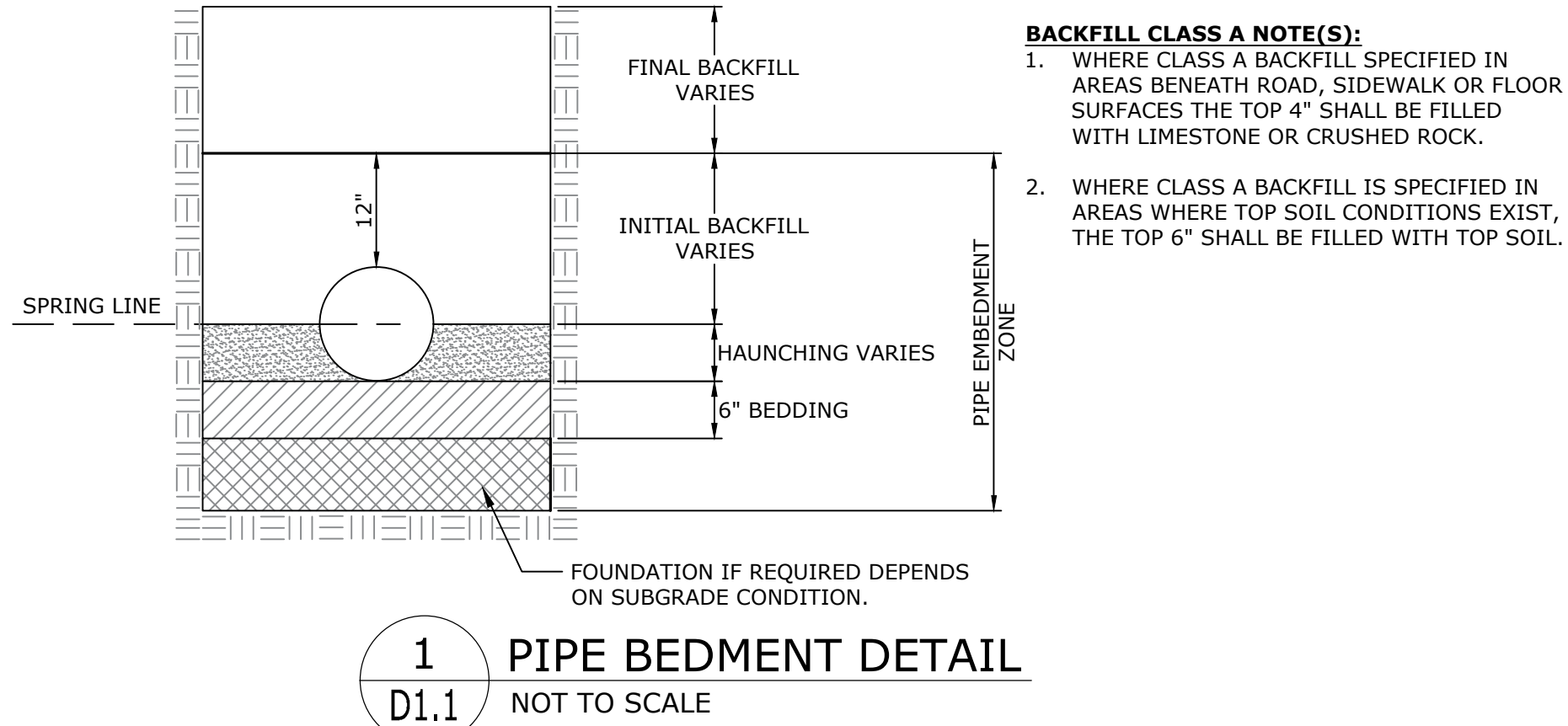
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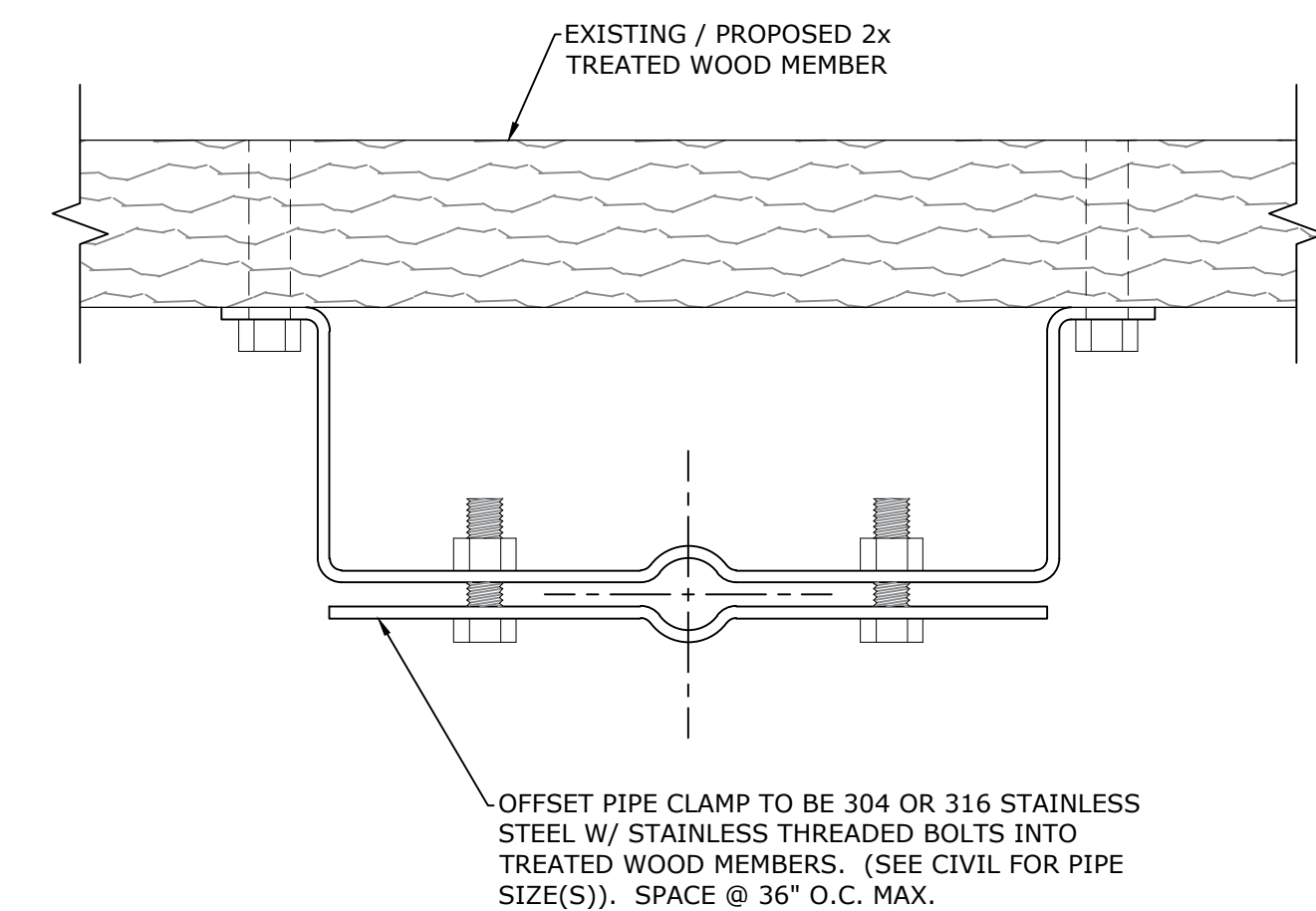
- GENERAL NOTES:
- WHERE TRENCH BOTTOMS ARE JUDGED UNSTABLE BY THE ENGINEER, THE ENGINEER WILL AUTHORIZE REMEDIAL ACTION TO STABILIZE THE FOUNDATION.
 - SELECT MATERIAL IS DEFINED AS SANDY SOIL, EITHER NATIVE OR BORROWED AT OR NEAR OPTIMUM MOISTURE IN ACCORDANCE WITH SECTION 02290 OF THE SPECIFICATIONS.
 - BACKFILL AND BEDDING WITH NATIVE MATERIAL AND LIMESTONE/GRAVEL FOR TEMPORARY ROAD REPAIRS IS INCLUDED IN THE UNIT PRICE PER LINEAR FOOT OF PIPE INSTALLED.
 - WHERE SPECIAL MATERIAL IS REQUIRED FOR BEDDING OR BACKFILL PURPOSES, PAYMENT WILL BE BASED ON MEASUREMENTS IN THE FIELD AND COMPUTED BY AVERAGE END AREA (AEA). PAYMENT WILL ONLY BE ALLOWED FOR MATERIALS PLACED TO THE DIMENSIONS REQUIRED PER DETAILS ON THIS SHEET. THE CONTRACTOR WILL NOT BE PAID FOR USING MATERIALS IN EXCESS OF THE REQUIREMENTS SHOWN IN THE DETAILS UNLESS APPROVED BY THE ENGINEER.
 - THE PAY QUANTITY FOR SURFACE REPAIR (FINAL BACKFILL) IS THE MAXIMUM PAY WIDTH. WHEN THE TOTAL PV OR W IS NOT REQUIRED, THEY SHALL BE REDUCED AS APPLICABLE.
 - WHERE FOUNDATION MATERIAL IS SUITABLE, 6" UNDERCUTTING FOR BEDDING SHALL NOT BE REQUIRED AND DIMENSION D₁ SHALL BE ADJUSTED.
 - FOR CUTS LESS THAN 5' W = W
 - TRENCH DEPTH EXCEEDING 5' IN DEPTH (D) ADD 2' IN WIDTH (W₂) FOR EACH 1' OF DEPTH. MEASUREMENT AS SHOWN BELOW.

DIMENSIONS		PIPE DIAMETER				
PAY WIDTH/DEPTH FOR:		1"/1.25"/1.5"/2"/2.5"/3"	4"/6"	8"	10"	12"
W ₁	TRENCH WIDTH - FEET	2.0'	2.5'	2.7'	3.0'	3.0'
PV	REPAIR OF PAVEMENT - FEET	TRENCH DEPTH 5' OR LESS PV = W ₁ + 3'-0" TRENCH DEPTH 5' OR GREATER PV = W ₂ + 3'-0"				
D ₁	SELECT BEDDING	VARIES BASED ON PIPE SIZE AND FOUNDATION				
D ₂	SELECT CLASS "A" BACKFILL FOR PERMANENT STREET REPAIR	AS PER PLANS OR AS APPROVED				
D ₃	SELECT BACKFILL FOR TEMPORARY SURFACE REPAIR	D ₂ LESS 4" LIMESTONE OR GRAVEL				
D ₄	SELECT BACKFILL NO SURFACE REPAIR	AS PER PLANS OR AS APPROVED				
D ₅	FOUNDATION	AS APPROVED BY THE ENGINEER				
L	LENGTH OF TRENCH	LENGTH MEASURED HORIZONTAL				
O.D.	OUTSIDE DIAMETER OF PIPE	TO BE SUBTRACTED FROM VOLUMES				

- VOLUME OF PIPE TO BE SUBTRACTED.
- CUTS EXCEEDING 5' IN DEPTH SHALL ADD 1' IN WIDTH FOR EACH ADDITIONAL 1' OF DEPTH.
- DEPTH MEASUREMENT SHALL BE TO THE PIPE INVERT.



- NOTES:
- SUBMIT ANCHORING METHOD TO ENGINEER FOR APPROVAL.
 - PIPE HANGERS, SUPPORTS, CLAMPS, AND SUPPORT RODS SHALL BE STAINLESS STEEL.



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CIVIL DETAILS

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VERIFY SCALES

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GRAPHIC SCALE: 1" = 10'

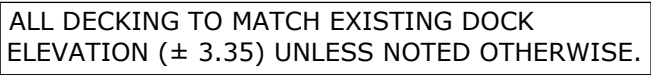
GRAPHIC SCALE: 1" = 10'

D1.1

SHEET OF

10/14/16	ISSUED FOR BID	TWP	GJD	10/17/16	ISSUED FOR BID	TWP	GJD	12/01/16	ISSUED FOR BID	DBE	GJD								
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**MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
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PROPOSED DOCK PLAN

VERIFY SCALES	SCALE: AS NOTED
ONE SCALE EXAMIN ON	JOB NO.: 216-015
IF NOT ONE IN ON	DATE: JULY 2016
SCALES ACCORDINGLY	DSGN: GID
	DWG. BY: TWP
	CHK: 1AR
0	APVD: 1AR
1"	

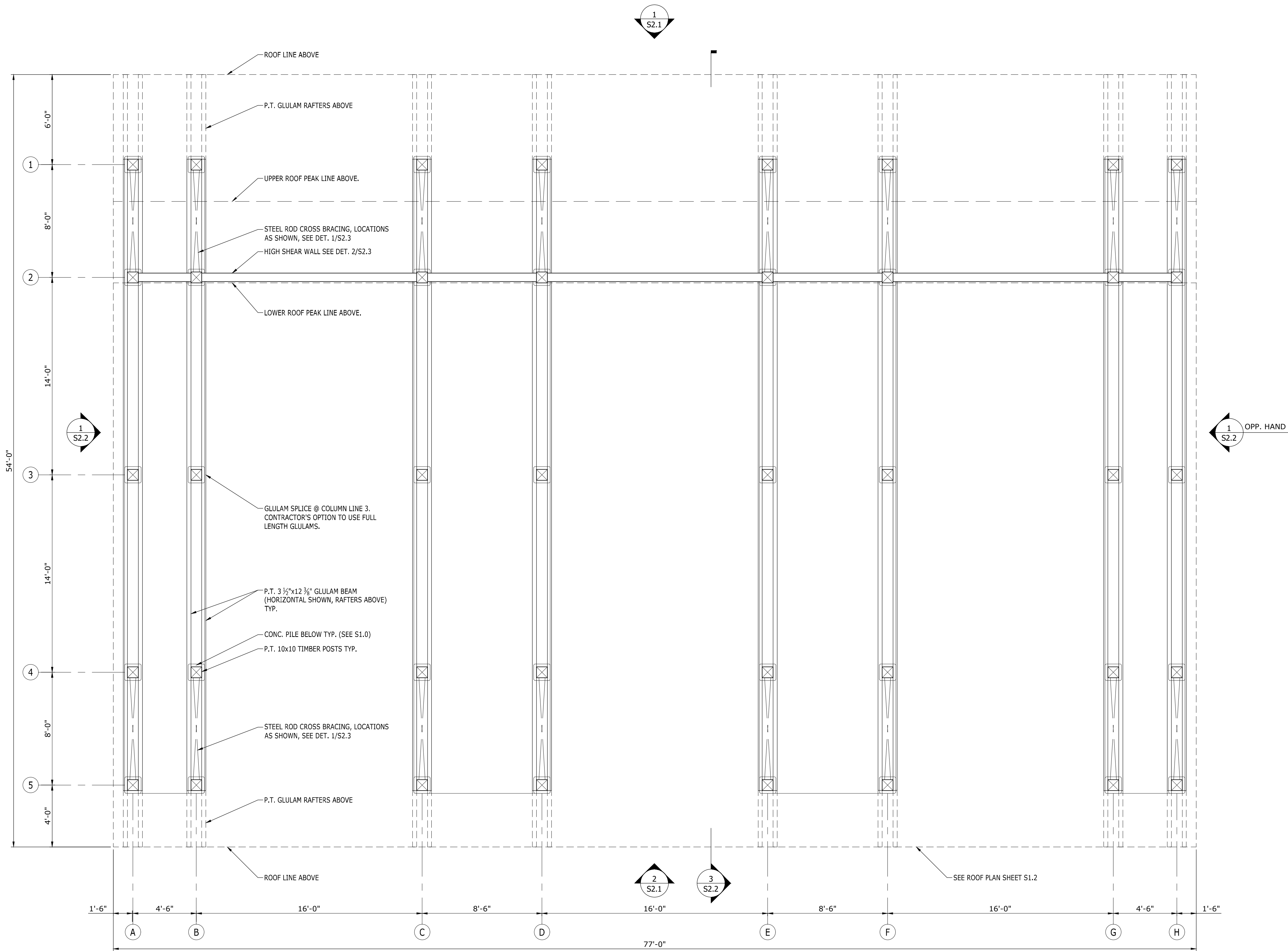
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SHEET OF

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1 PROPOSED SHELTER - STRUCTURAL FRAMING PLAN

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

PLAN NORTH

SHEET NOTES:

- POST LENGTHS VARY.
- POST TO EXTEND FROM TOP OF CONCRETE PILE TO ROOF DECKING, TOP OF POST TO BE CUT TO MATCH ROOF SLOPE.

COMPTON ENGINEERING, INC.

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E-mail: compton@comptonengineering.com



MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT THE OCEAN SPRINGS HARBOR

ALTERNATE #2
STRUCTURAL FRAMING PLAN

SCALE:	AS NOTED
JOB NO.:	216-015
DATE:	JULY 2016
DSGN.:	GJD
DWG. BY:	DBE
CHK.:	JAB
APVD.:	

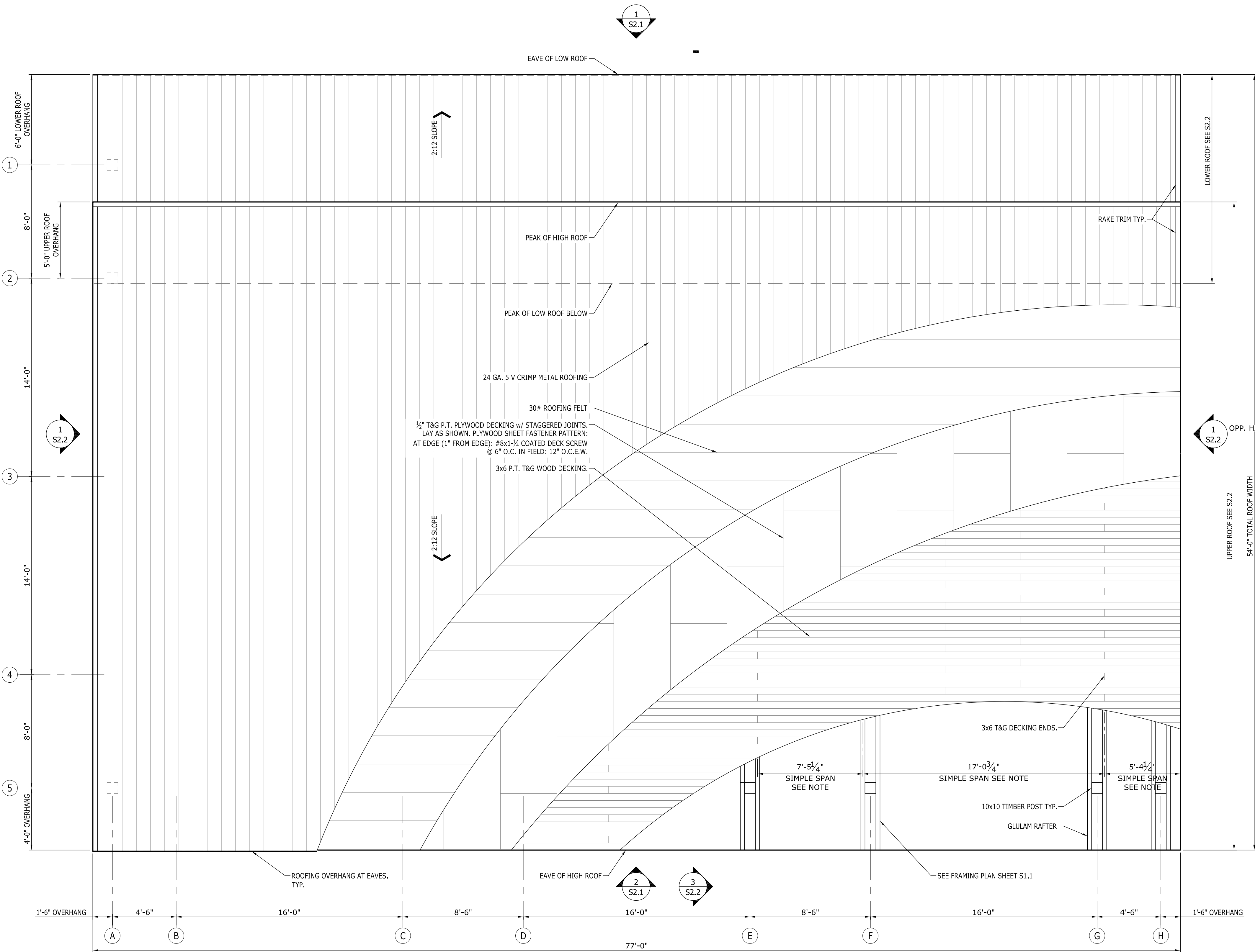
VERIFY SCALES
BAR SCHEDULE ON
DRAWING
INDICATES
SCALES
ACCORDINGLY

S1.1

SHEET OF

10/14/16	ISSUED FOR BID	DBE GJD	10/17/16	ISSUED FOR BID	DBE GJD	12/01/16	ISSUED FOR BID	DBE GJD											
DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD

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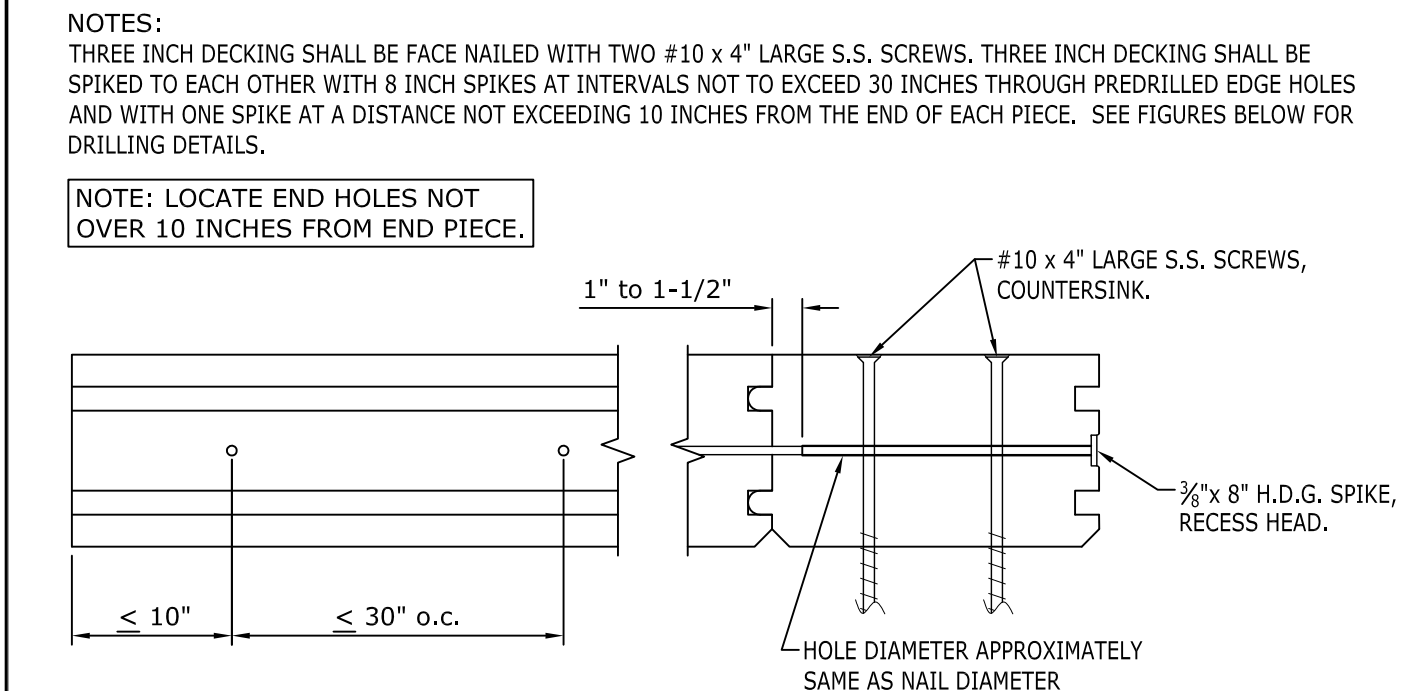
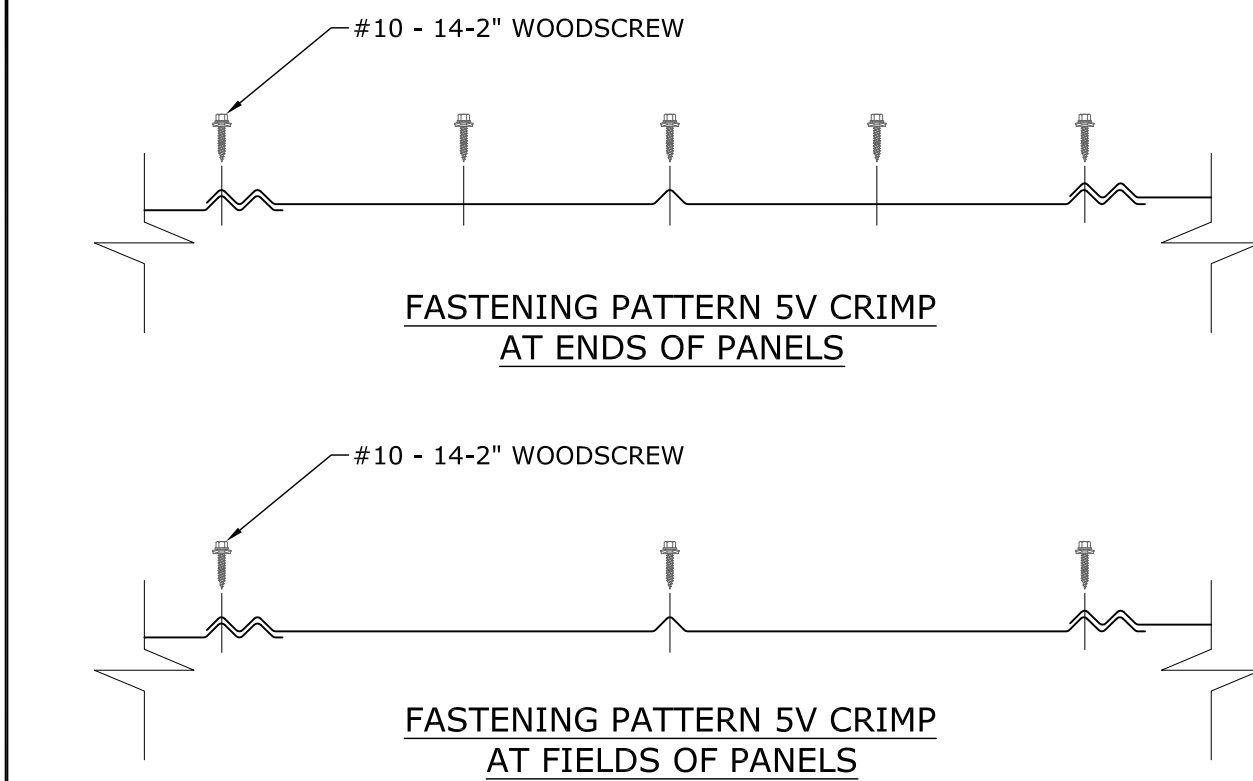
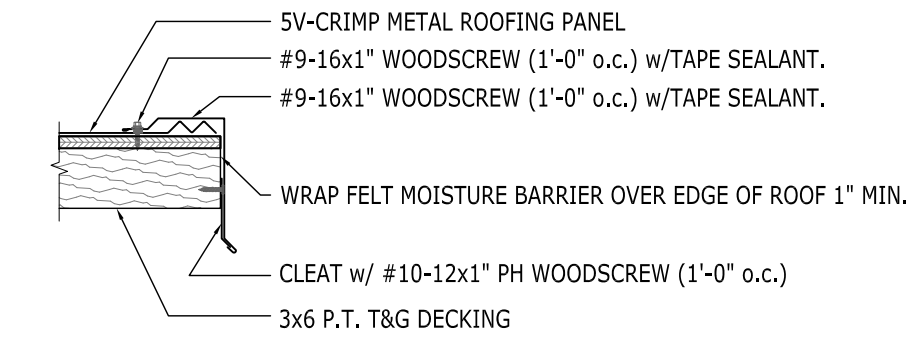
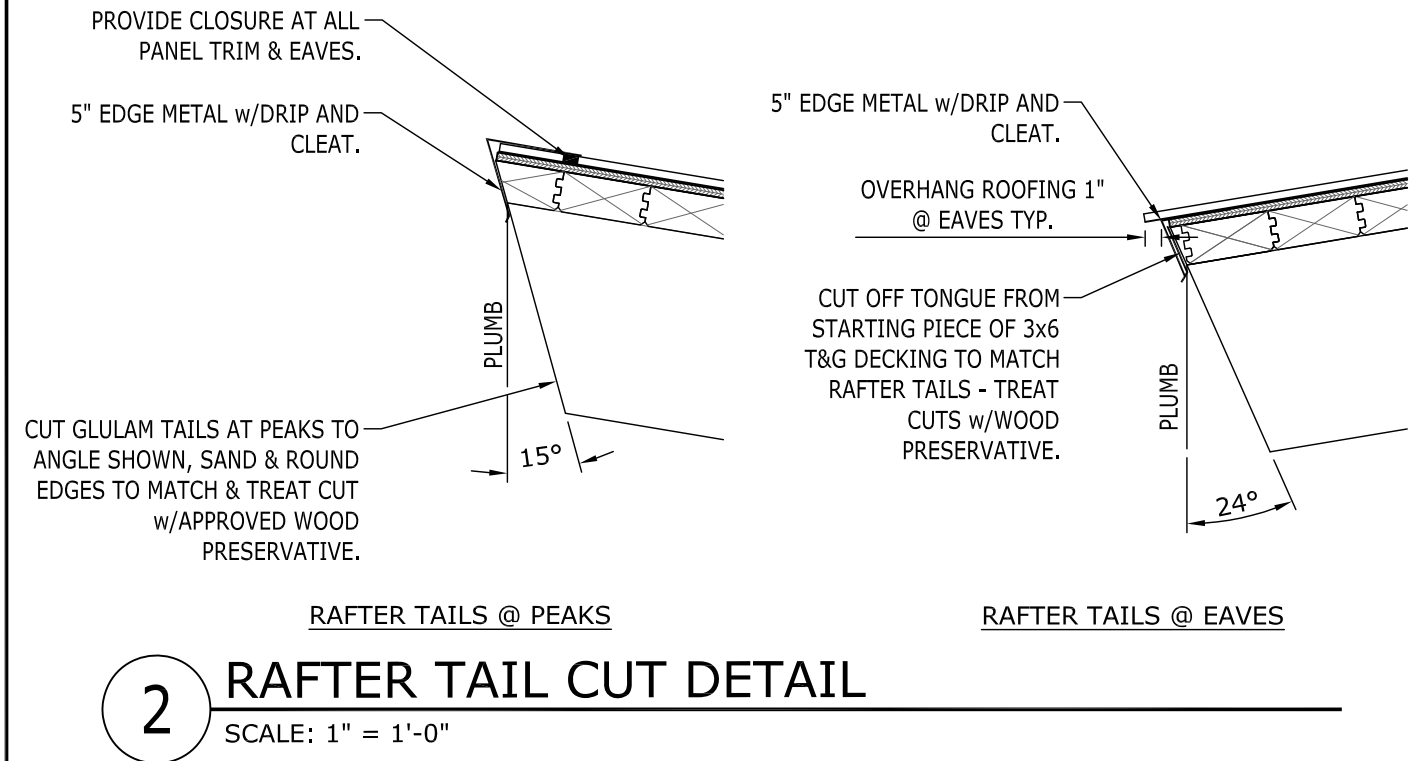


1 PROPOSED SHELTER - ROOF PLAN

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



SIMPLE SPAN NOTE:
EVERY 3RD COURSE, DECK BOARDS TO BE PLACED AT SIMPLE SPAN AS SHOWN ABOVE. ALTERNATE COURSES TO BE STAGGERED. CONTRACTOR SHALL PROVIDE DECK BOARDS AS LONG AS AVAILABLE TO REDUCE JOINTS.



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MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT THE OCEAN SPRINGS HARBOR
ALTERNATE #2
ROOF PLAN

SCALE:	AS NOTED
JOB NO.:	216-015
DATE:	JULY 2016
DSGN.:	GJD
DWG. BY:	DBE
CHK.:	DBE
APVD.:	JAB

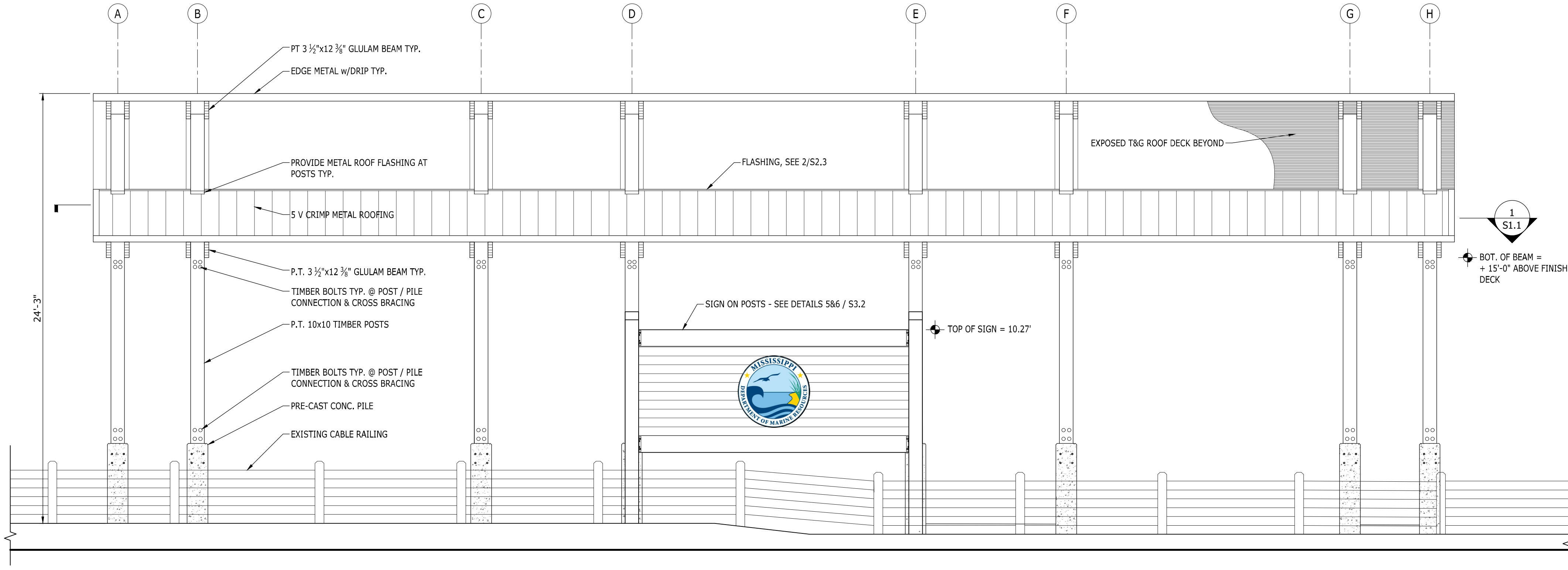
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BAR IS ONE NOTION	0
ORIGINAL DRAWING	
THIS SET IS A COPY	
SCALE IS AS NOTED	

S1.2
SHEET OF

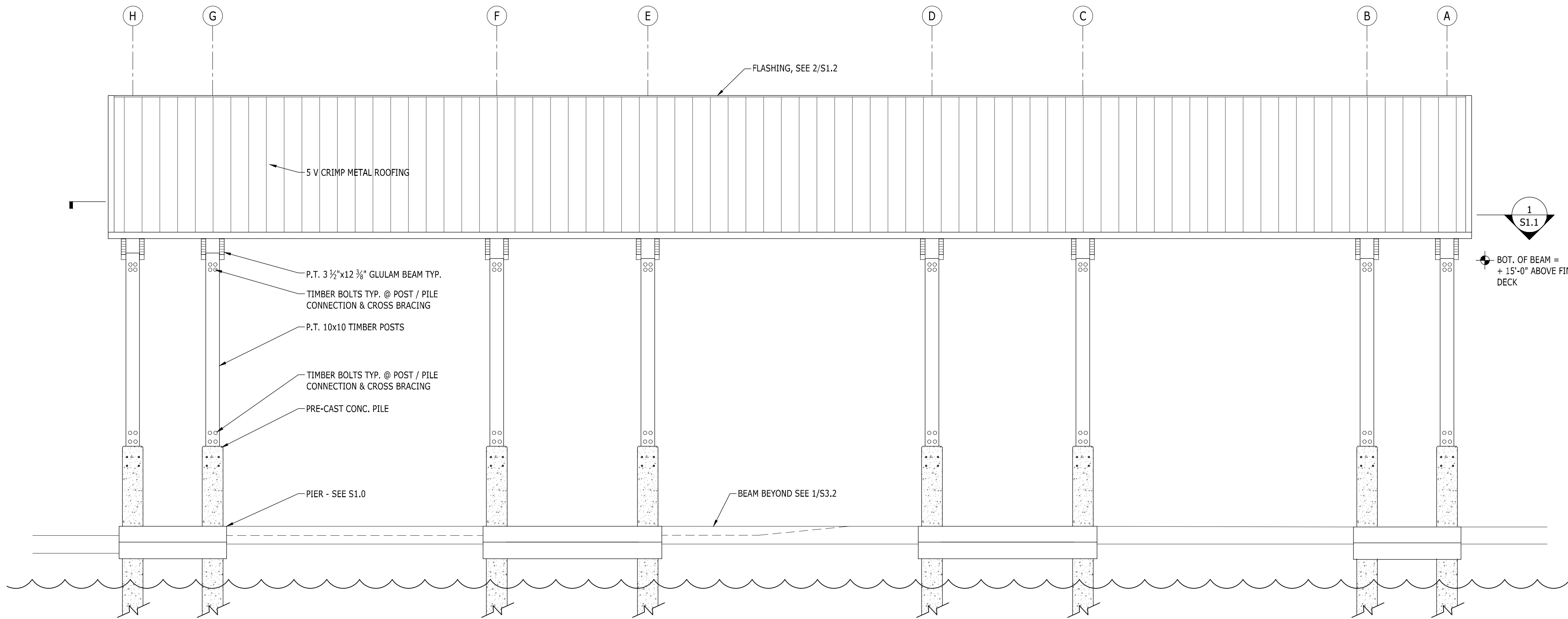
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DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD

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1 WEST EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



2 EAST EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

Rev. No.

C

10/14/16	ISSUED FOR BID	DBE GJD	10/17/16	ISSUED FOR BID	DBE GJD	12/01/16	ISSUED FOR BID	DBE GJD											
DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD

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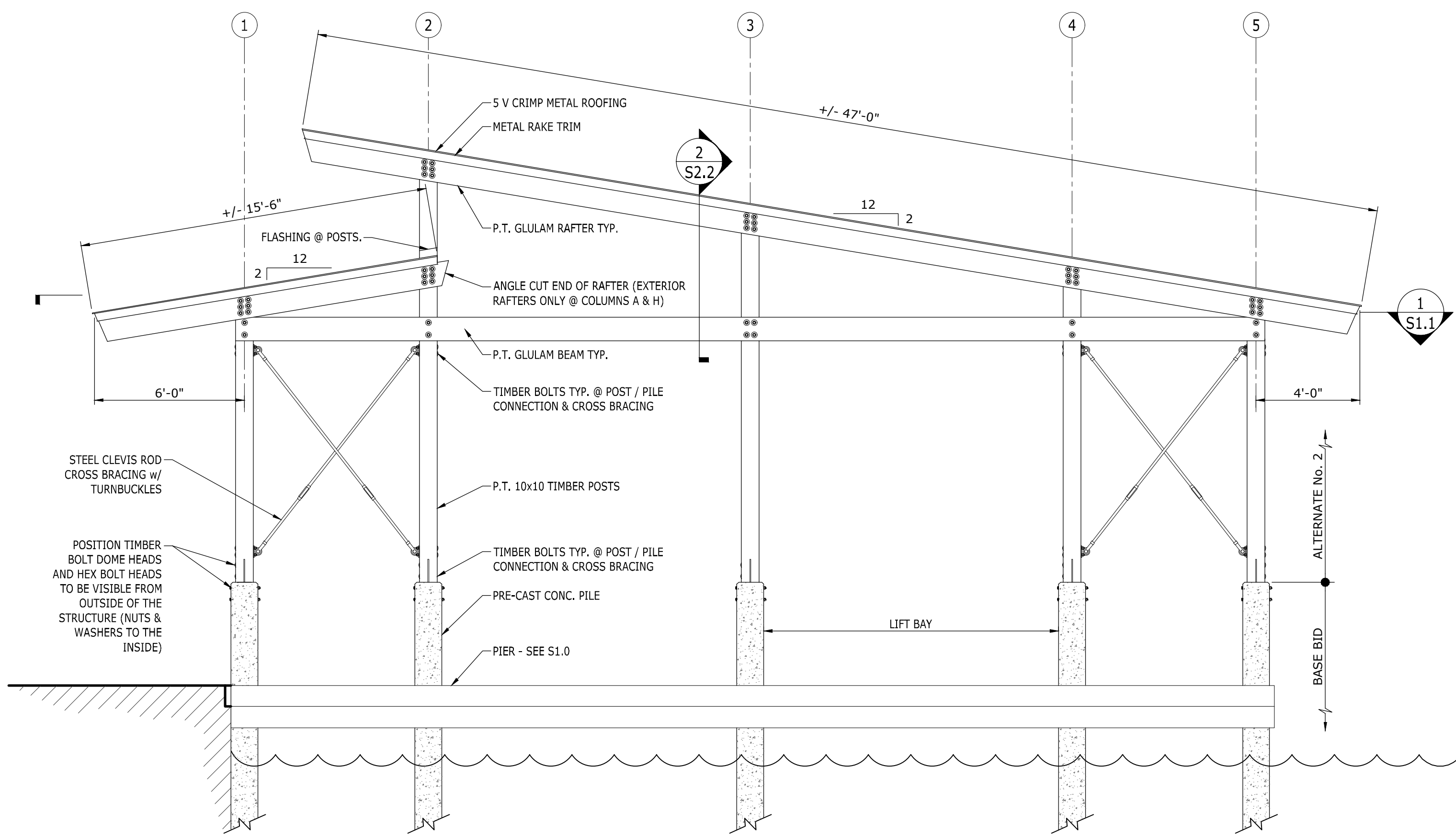
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT THE OCEAN SPRINGS HARBOR
ALTERNATE #2
EXTERIOR ELEVATIONS

SCALE: AS NOTED	JOB NO.: 216-015
DATE: JULY 2016	DATE: JULY 2016
DSGN.: GJD	DSGN.: GJD
DWG. BY: DBE	DWG. BY: DBE
CHK.: JAB	CHK.: JAB
APVD.: JAB	APVD.: JAB

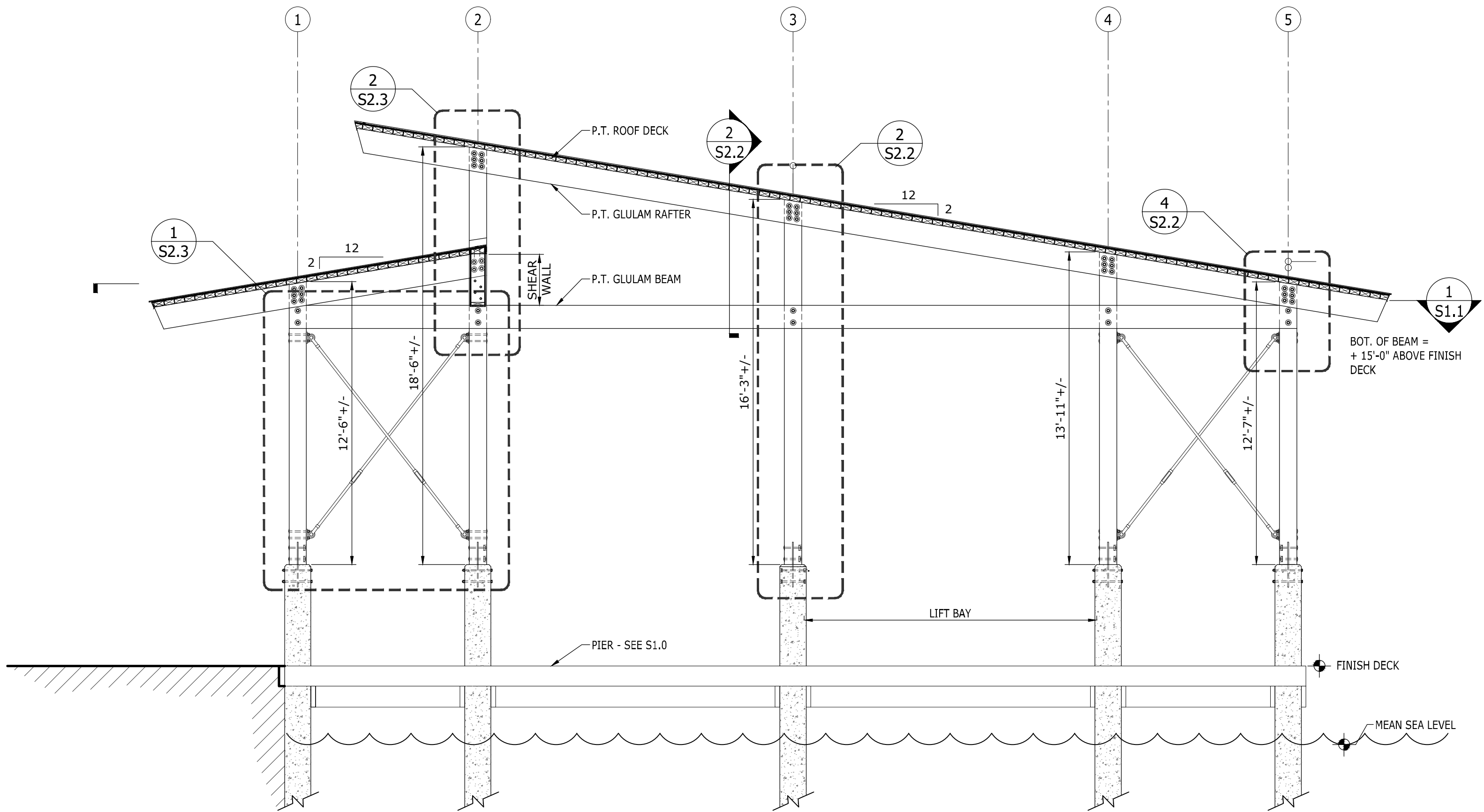
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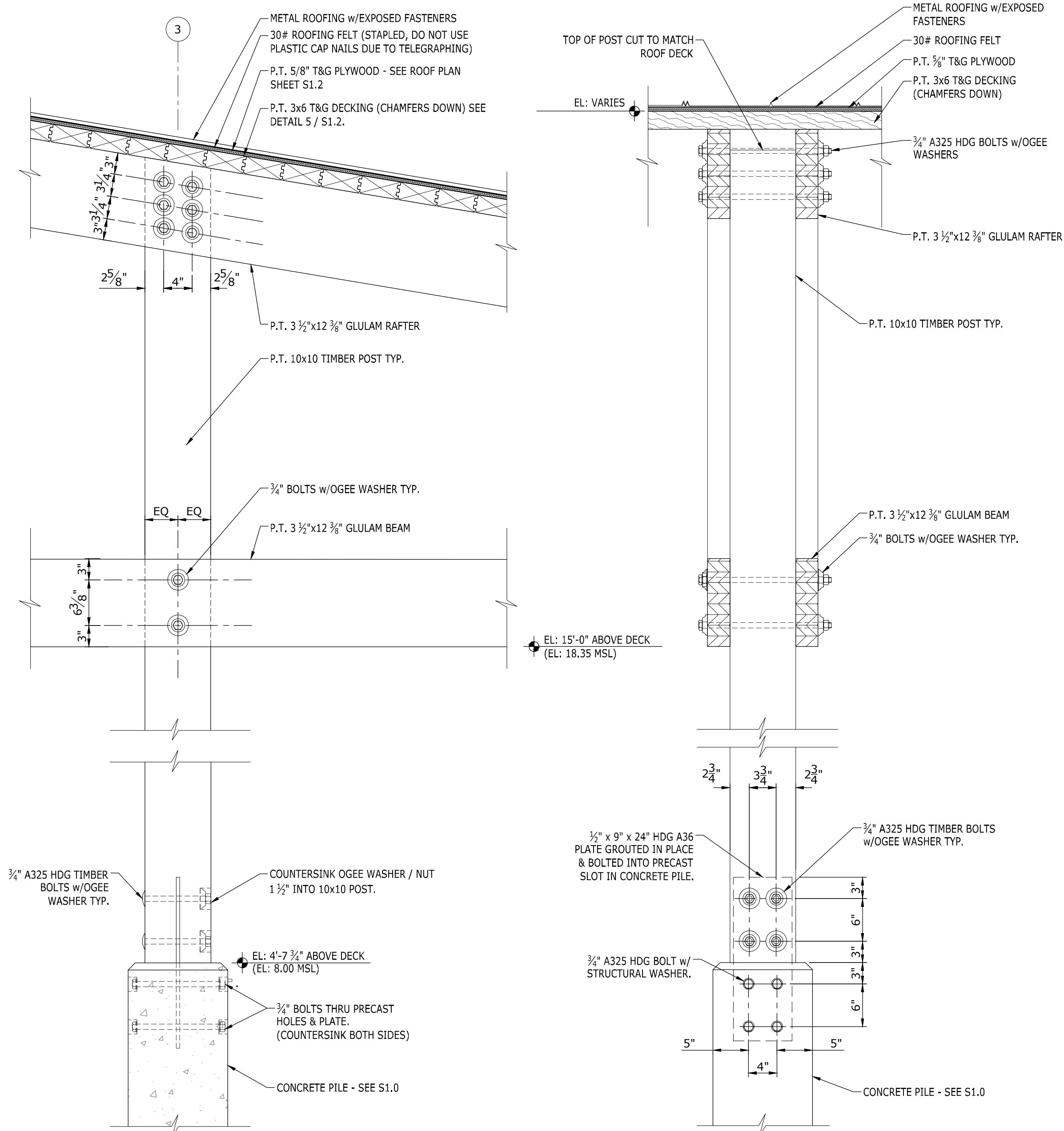
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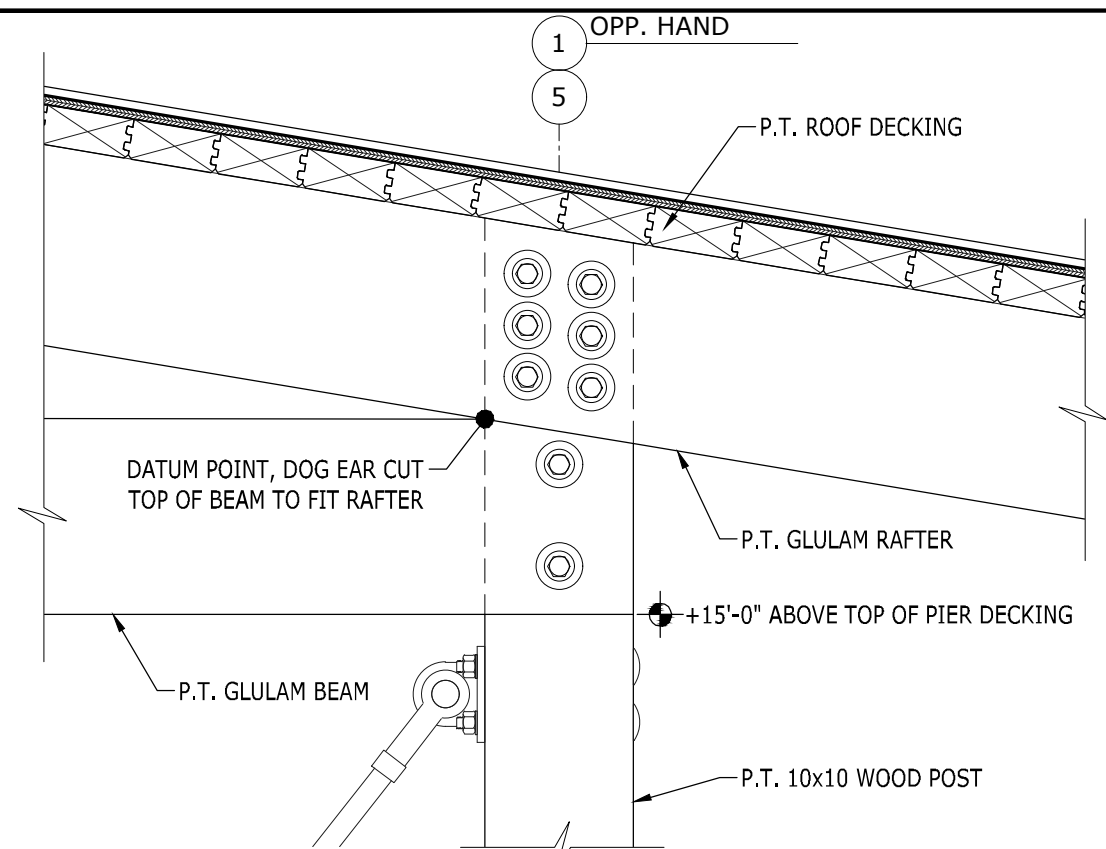
1 WEST EXTERIOR ELEVATION (EAST ELEVATION SIMILAR)
SCALE: 1/4" = 1'-0"



3 BUILDING SECTION
SCALE: 1/4" = 1'-0"



2 BEAM, RAFTER, POST & PILE CONNECTIONS DETAIL
SCALE: 1" = 1'-0"



4 BEAM - DOG EAR @ RAFTER
SCALE: 1" = 1'-0"

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MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT THE OCEAN SPRINGS HARBOR
ALTERNATE #2
EXTERIOR ELEVATIONS, SECTIONS & DETAILS

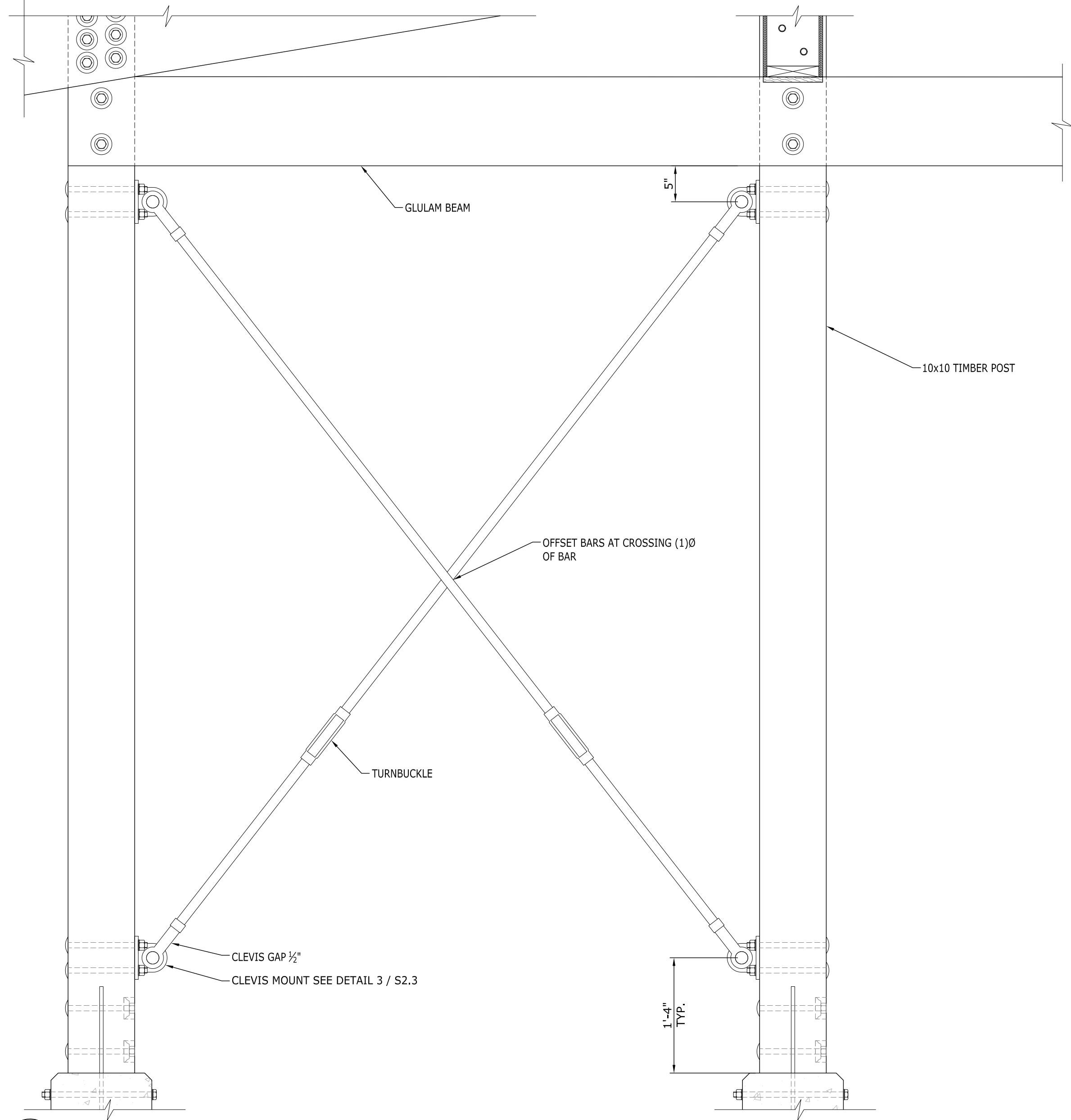
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JOB NO.:	216-015
DATE:	JULY 2016
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DWG. BY:	GJD
CHK.:	
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VERIFY SCALES	1"
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IF NOT INDICATED ON	
PRINTED DRAWING	
SCALE ACCORDINGLY	

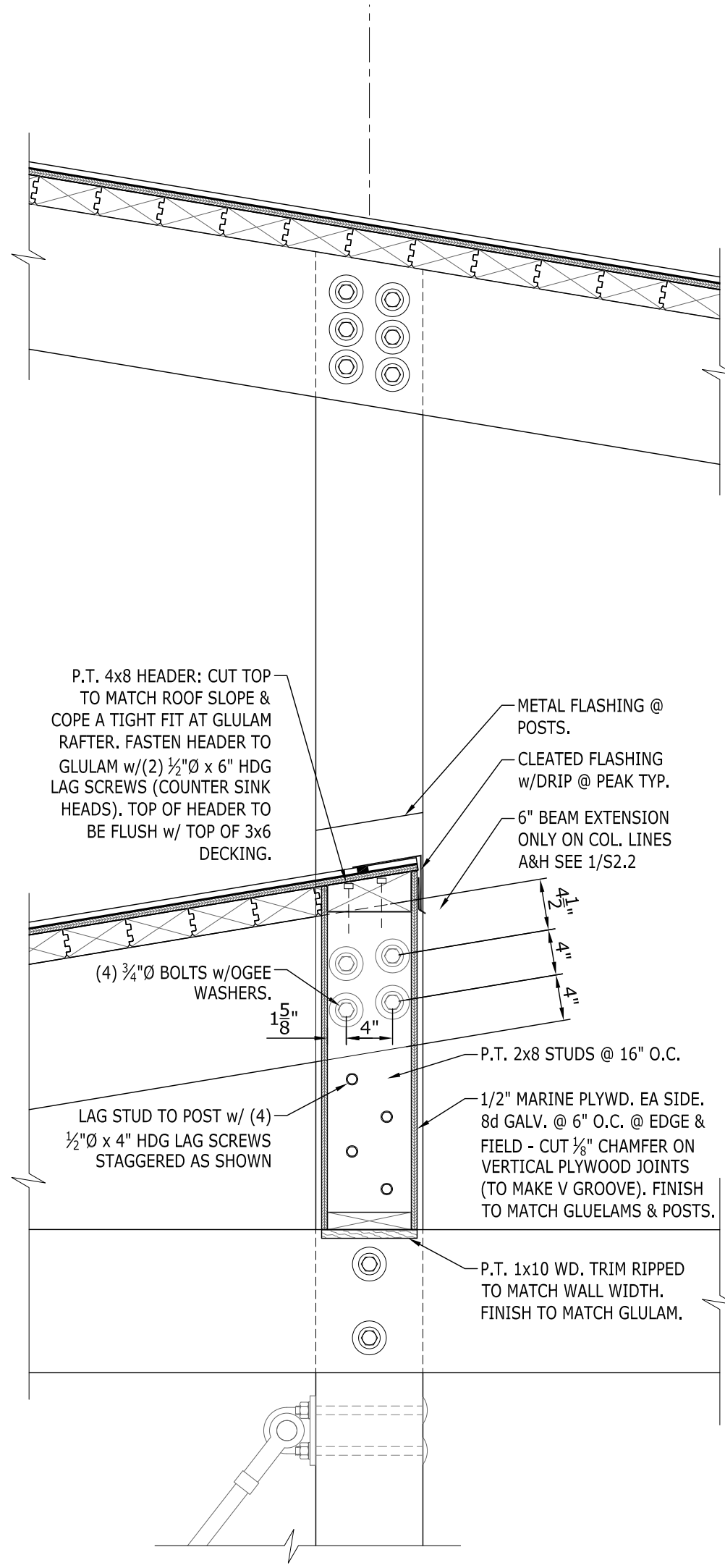
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DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD

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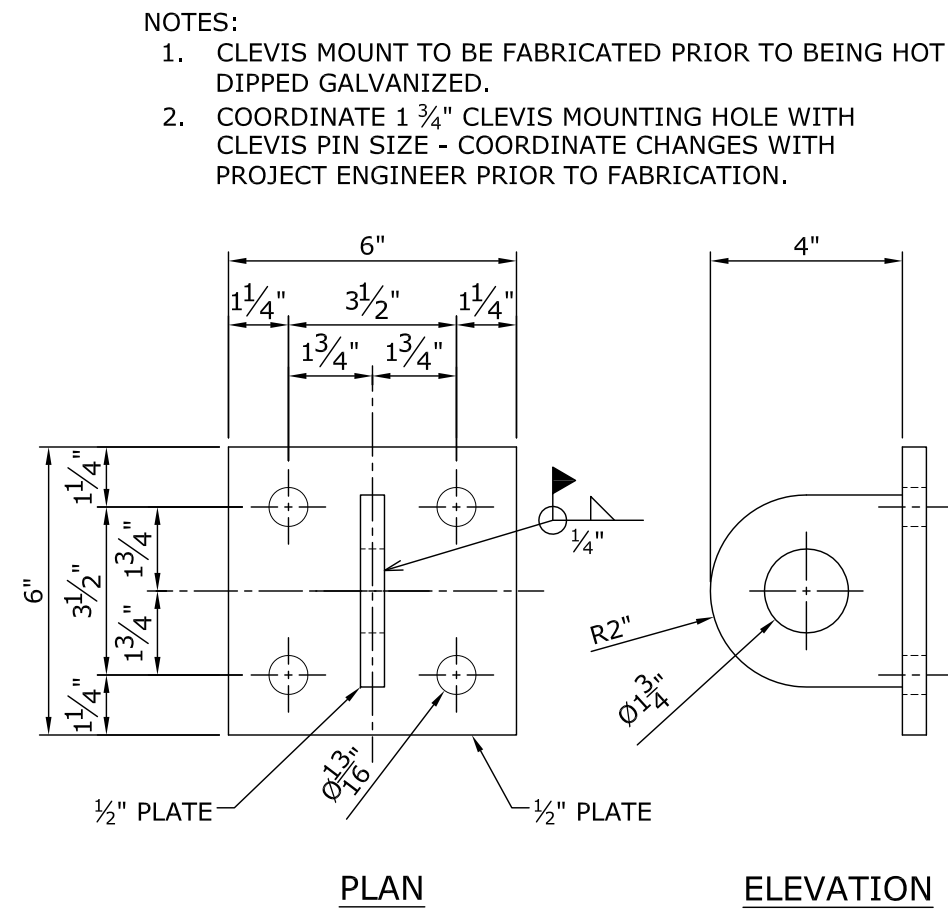


1 CROSS BRACING DETAIL
SCALE: 1" = 1'-0"



NOTE: FOR INFORMATION NOT SHOWN SEE DETAIL 2/S2.2

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



3 CLEVIS MOUNT DETAIL
SCALE: 3" = 1'-0"

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MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT THE OCEAN SPRINGS HARBOR
ALTERNATE #2
STRUCTURAL DETAILS

SCALE:	AS NOTED
JOB NO.:	216-015
DATE:	JULY 2016
DSGN.:	GJD
DWG. BY:	DBE
CHK.:	
APVD.:	JAB

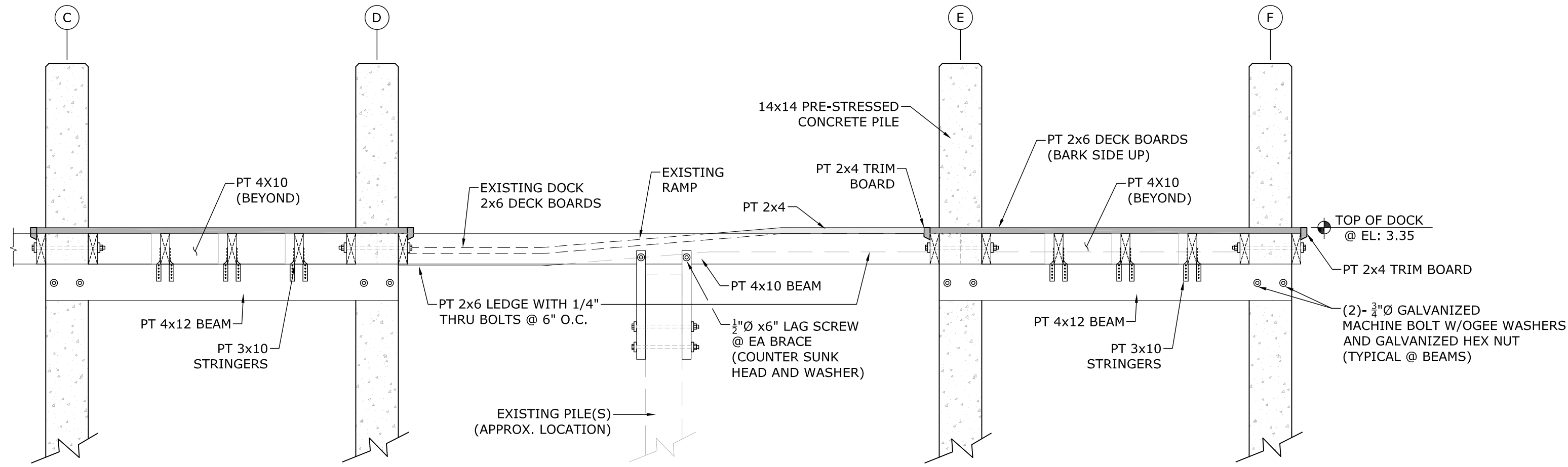
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BASE IS ONE NOTION
ORIGINAL DRAWING
THIS IS A REPRODUCTION
SCALE IS AS NOTED

S2.3

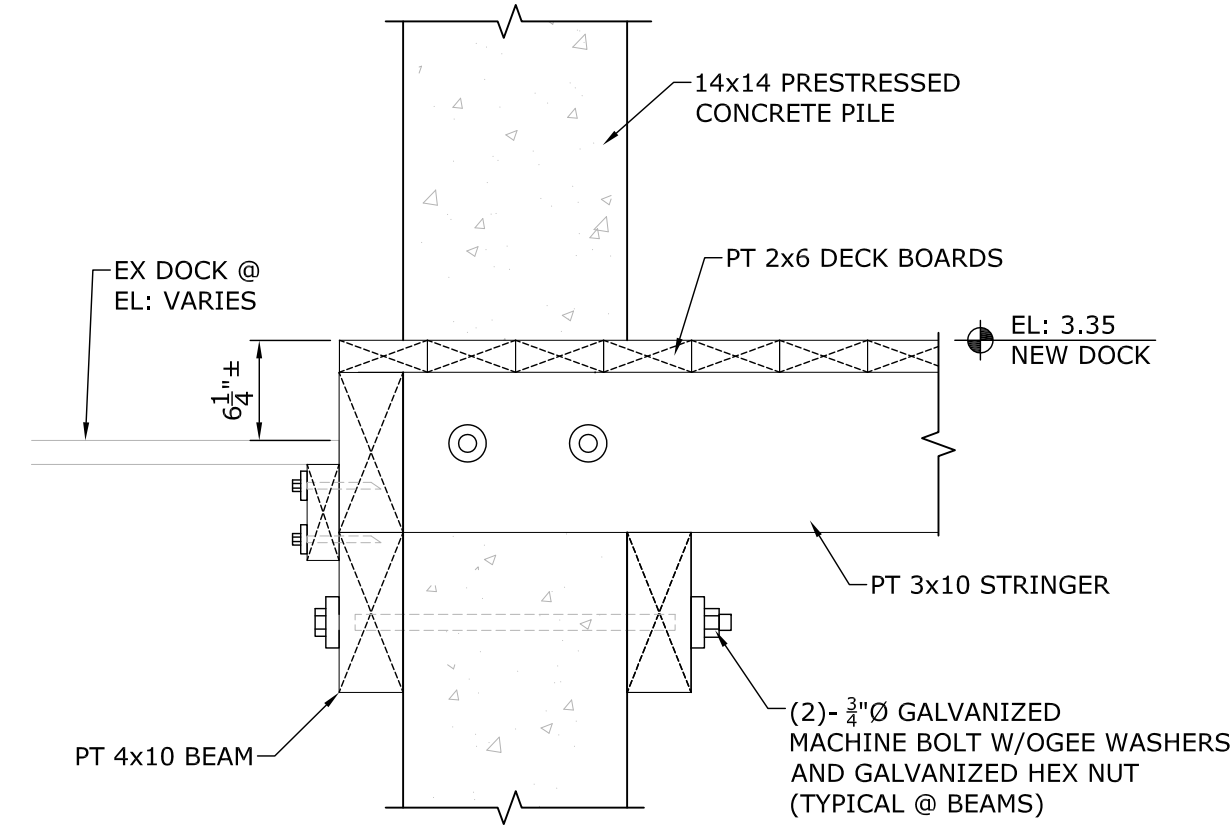
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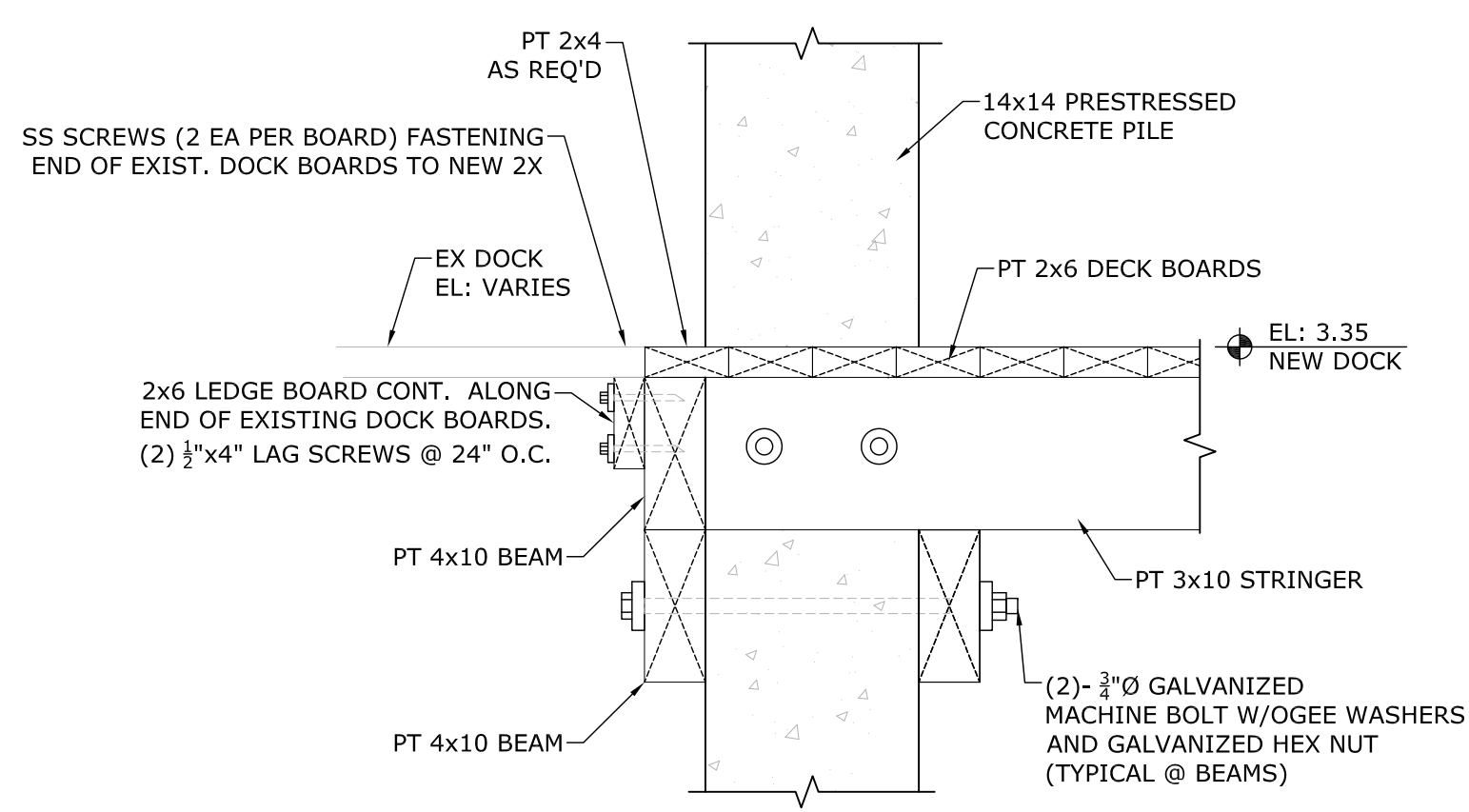
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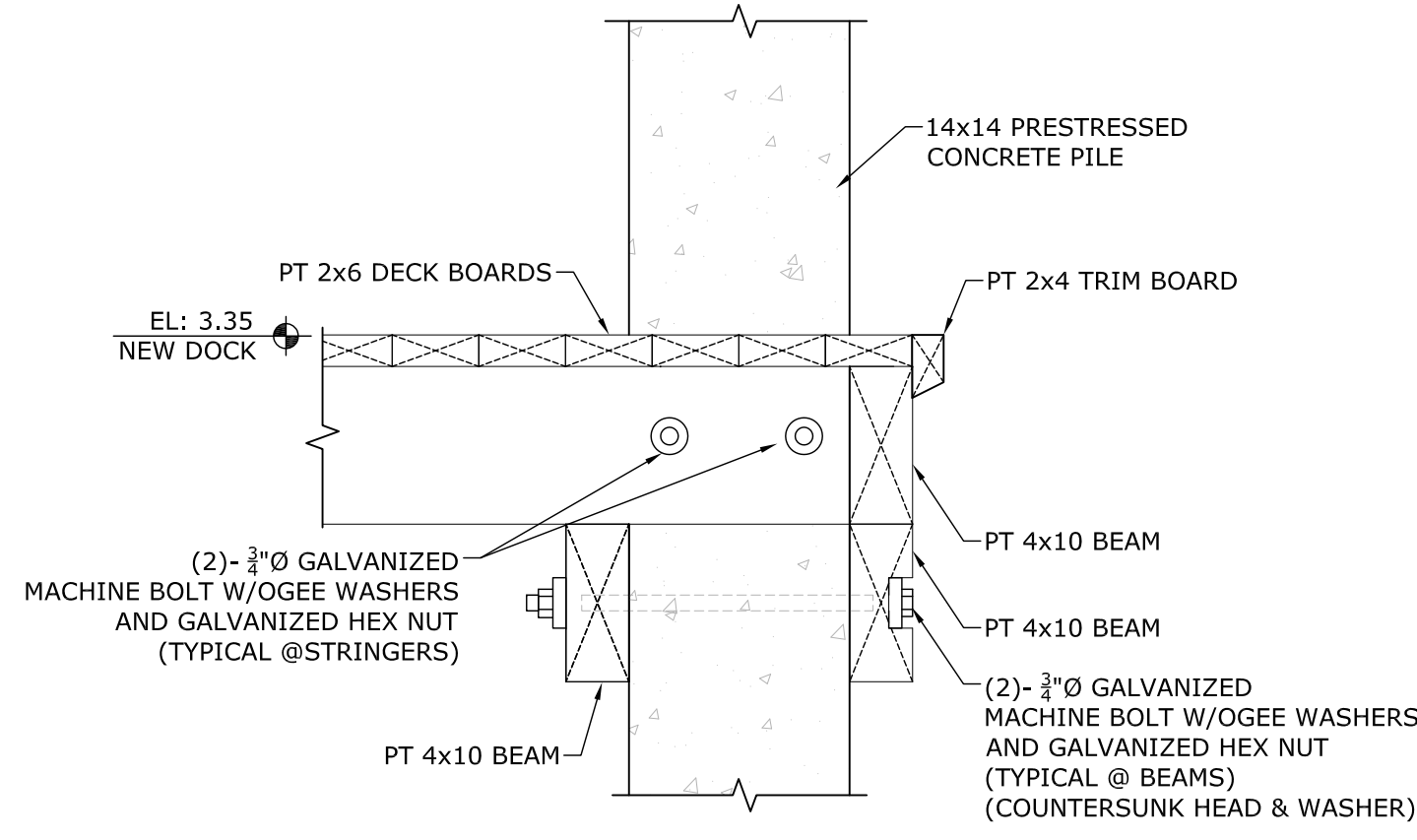
1 SECTION @ EXISTING DOCK
S3.2 SCALE: 3/8" = 1'-0"



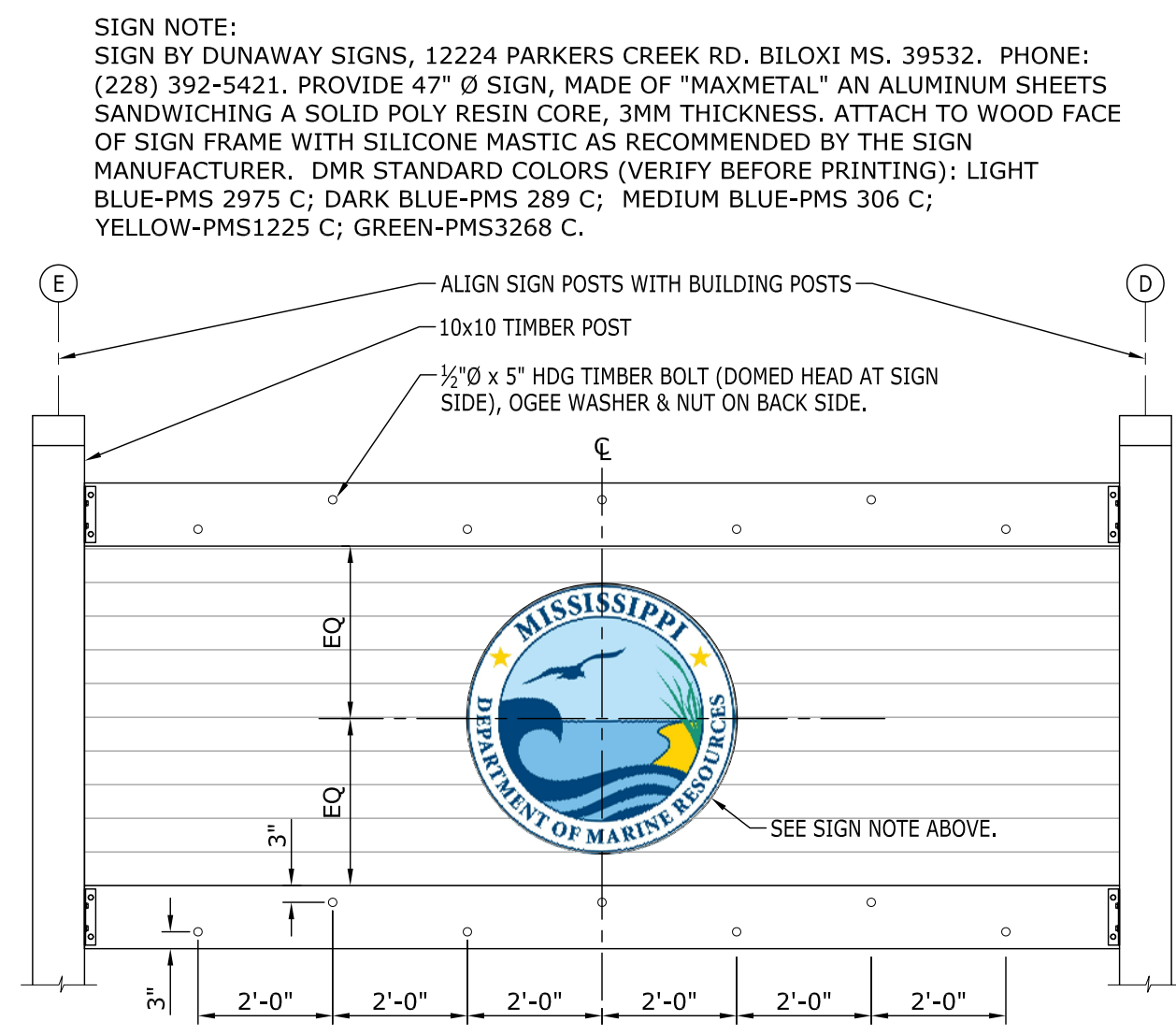
2 TYPICAL CONNECTION @ EX DOCK
S3.2 SCALE: 1" = 1'-0"



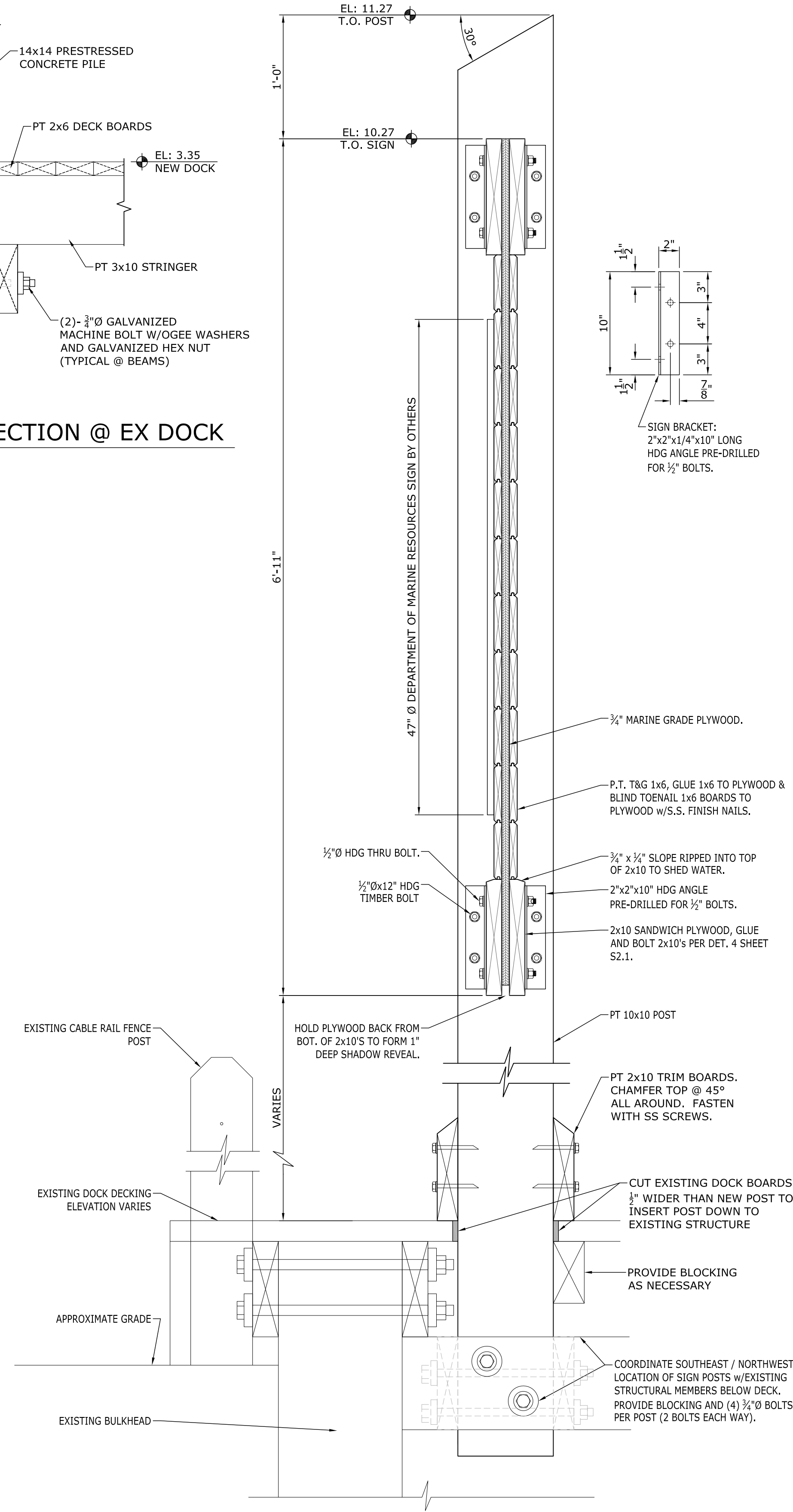
3 TYPICAL CONNECTION @ EX DOCK
S3.2 SCALE: 1" = 1'-0"



4 TYPICAL SECTION @ END OF DOCK
S3.2 SCALE: 1" = 1'-0"



5 SIGN ELEVATION
S3.2 SCALE: 3/8" = 1'-0"



6 SIGN SECTION
S3.2 SCALE: 1-1/2" = 1'-0"

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MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT OCEAN SPRINGS HARBOR

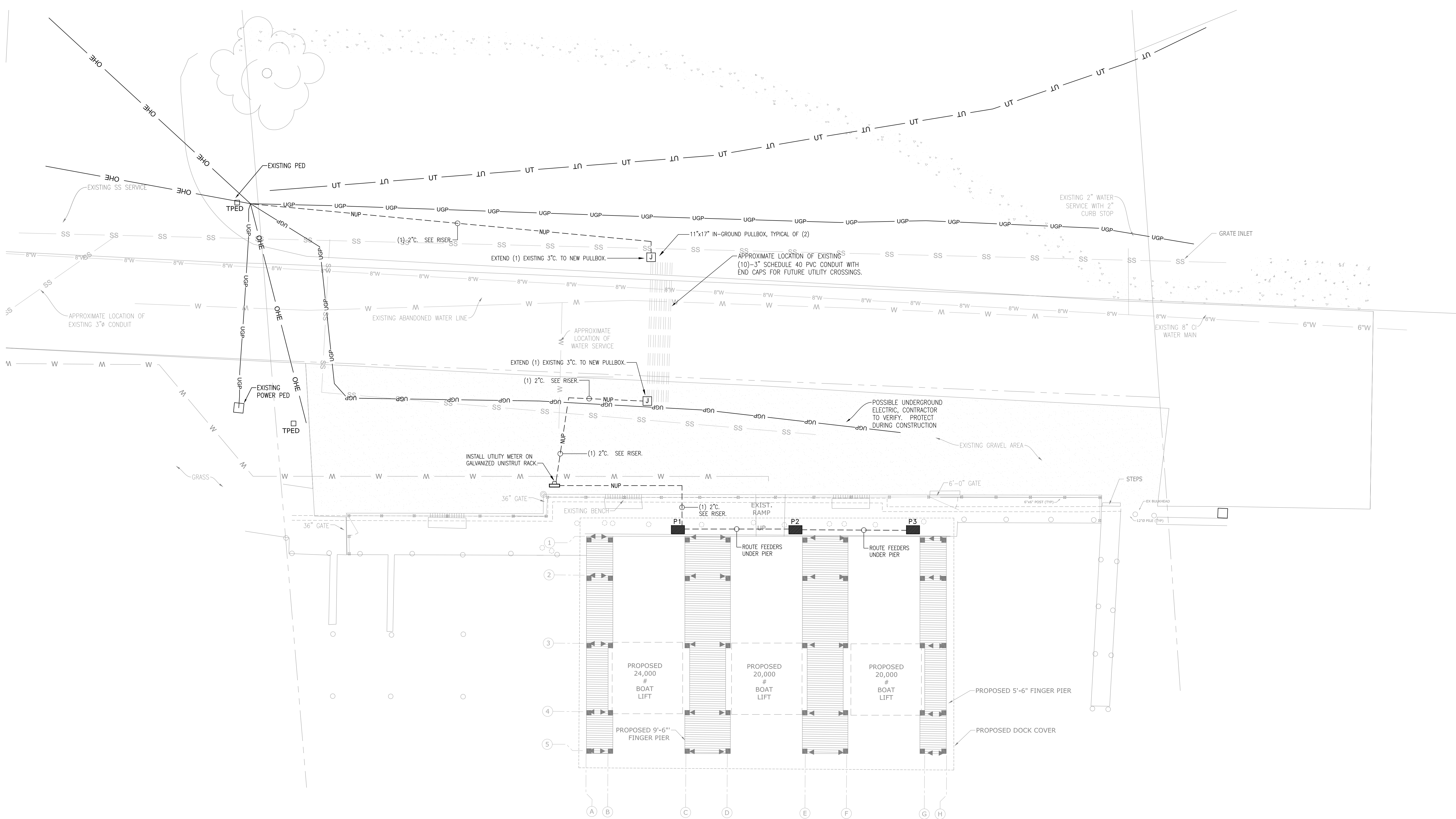
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DATE:	JULY 2016
DSGN.:	GJD
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CHK.:	
APVD.:	JAB

VERIFY SCALES	1"
BAR IS ONE INCH	
ORIGINAL DRAWING	
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SCALE IS NOT TO BE	

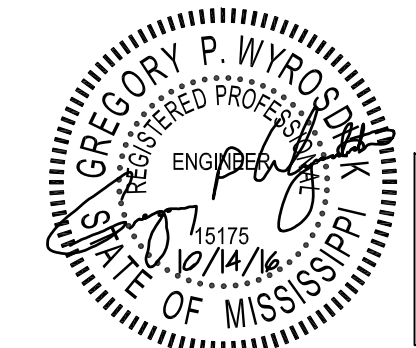
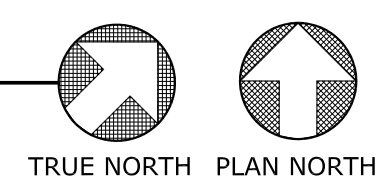
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SHEET OF

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1 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"



Rev. No. C

10/14/16	ISSUED FOR BID	JH	GW	10/17/16	ISSUED FOR BID	JH	GW	12/01/16	ISSUED FOR BID	JH	GW								
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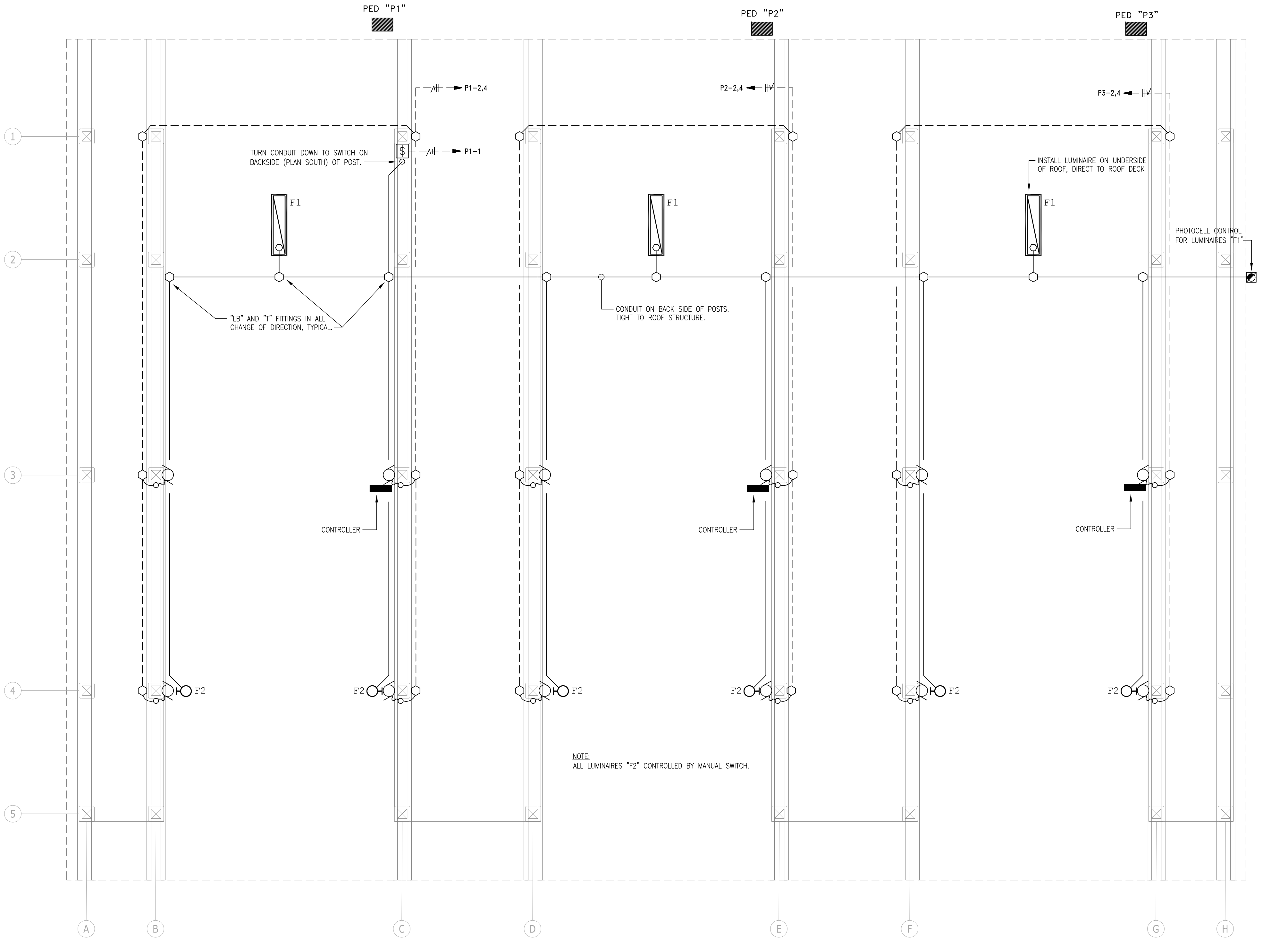
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Pascagoula, Mississippi 39567
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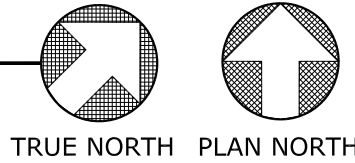
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT THE OCEAN SPRINGS HARBOR
ALTERNATE #2
ELECTRICAL SITE PLAN

SCALE:	AS NOTED
JOB NO.:	216-015
DATE:	JULY 2016
DSGN.:	GJD
DWG. BY:	JWH
CHK.:	GPW
APVD.:	

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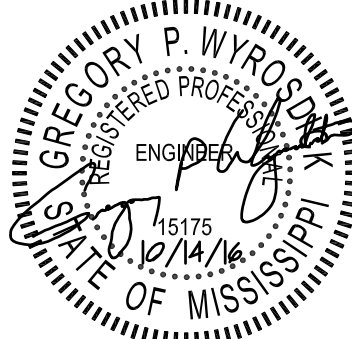


1 LIGHTING & POWER PLAN
SCALE: 1/4" = 1'-0"



LUMINAIRE SCHEDULE (ALTERNATE #2)					
MARK	LAMPS	MOUNTING	DESCRIPTION	MANUFACTURER	EQUALS
F1	LED	SURFACE STRUCTURE	LED, 4' SURFACE MOUNTED VAPORTITE FIXTURE	LITHONIA VAP-6000LM-FST-MD-120-GZ10-35K-8CRI-STSL	DAYBRITE, WILLIAMS, HUBBELL, COOPER, LSI
F2	LED	POST MOUNTED	LED, EXTERIOR ROUGH SERVICE ARCHITECTURAL FIXTURE	LITHONIA VG05C-40LED-35K-GL-120-DWHG-LPI	DAYBRITE, WILLIAMS, HUBBELL, COOPER, LSI

ELECTRICAL LEGEND	
LIGHTING	CONDUIT AND WIRE
SURFACE MOUNT, LED VAPORTITE FIXTURE	FLEXIBLE CONDUIT, SEALTITE AT WET LOCATIONS
WALL/POST MOUNTED FIXTURE	CONDUIT EXPOSED ABOVE PIER DECK
SWITCHES	CONDUIT BELOW PIER DECK
	CIRCUIT CONDUCTORS IN CONDUIT
PHOTOCELL	MULTIPLE CIRCUIT CONDUCTORS IN CONDUIT WITH NEUTRALS
DEVICES / SWITCHGEAR	GROUND CONDUCTORS IN CONDUIT
JUNCTION BOX OR CONDUIT BODY FITTINGS	CONDUIT UP
LIFT MOTOR (BY OTHERS) 1HP, 240VOLT	CONDUIT DOWN
	CIRCUIT HOMERUN TO PANEL BOARD. XX-XX DENOTES PANEL NAME AND CIRCUIT NUMBER
	EXISTING UNDERGROUND COMMUNICATIONS
	EXISTING UNDERGROUND POWER
	EXISTING OVERHEAD ELECTRICAL
	NEW UNDERGROUND POWER



Rev. No. C

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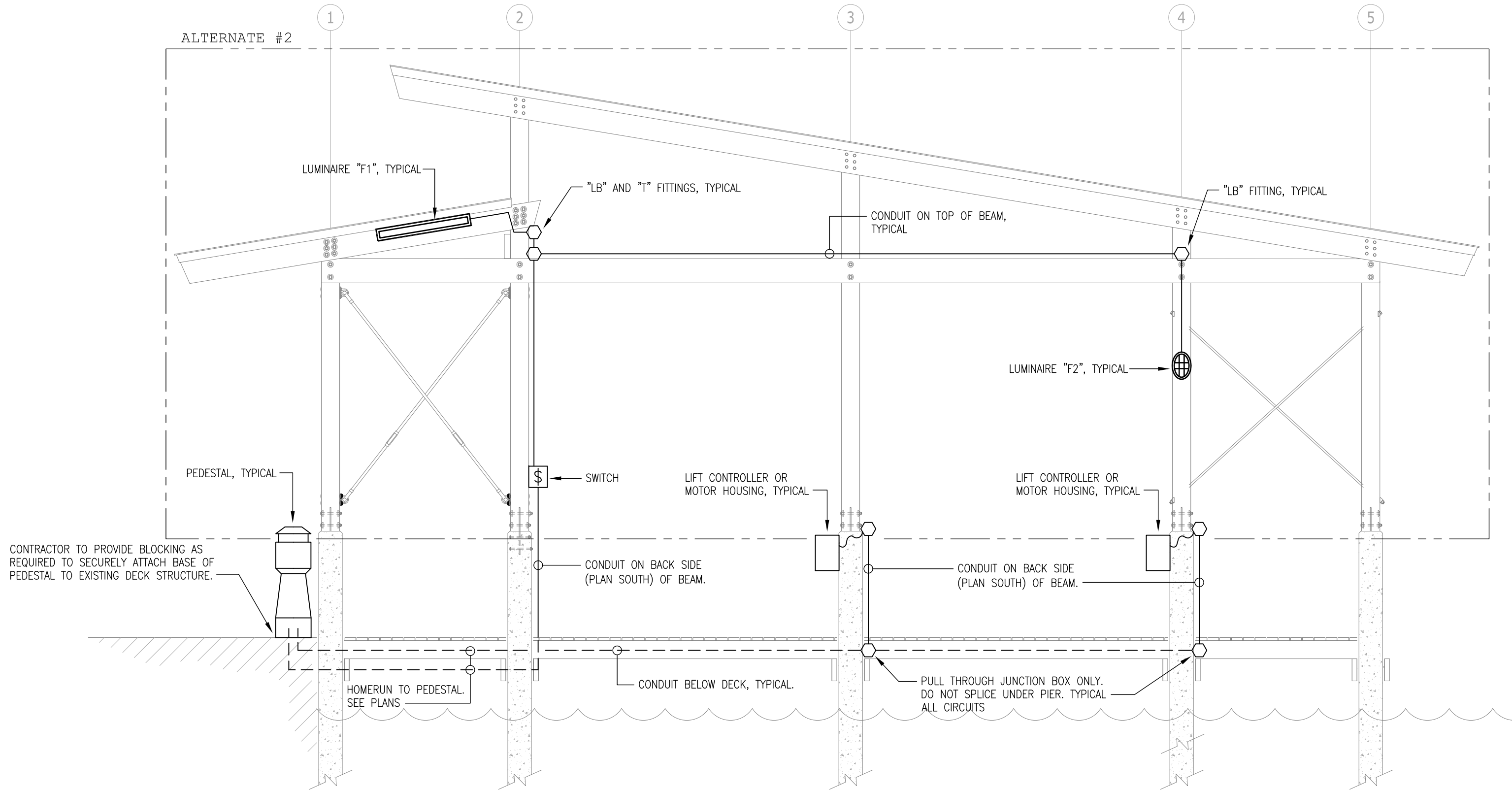
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT THE OCEAN SPRINGS HARBOR
ALTERNATE #2
LIGHTING & POWER PLAN & LEGEND

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JOB NO.: 216-015	BASE IS ONE INCH
DATE: JULY 2016	ORIGINAL DRAWING
DSGN.: GJD	THIS SET IS A COPY
DWG. BY: JWH	SCALE AS SHOWN
CHK.: GPW	
APVD.:	

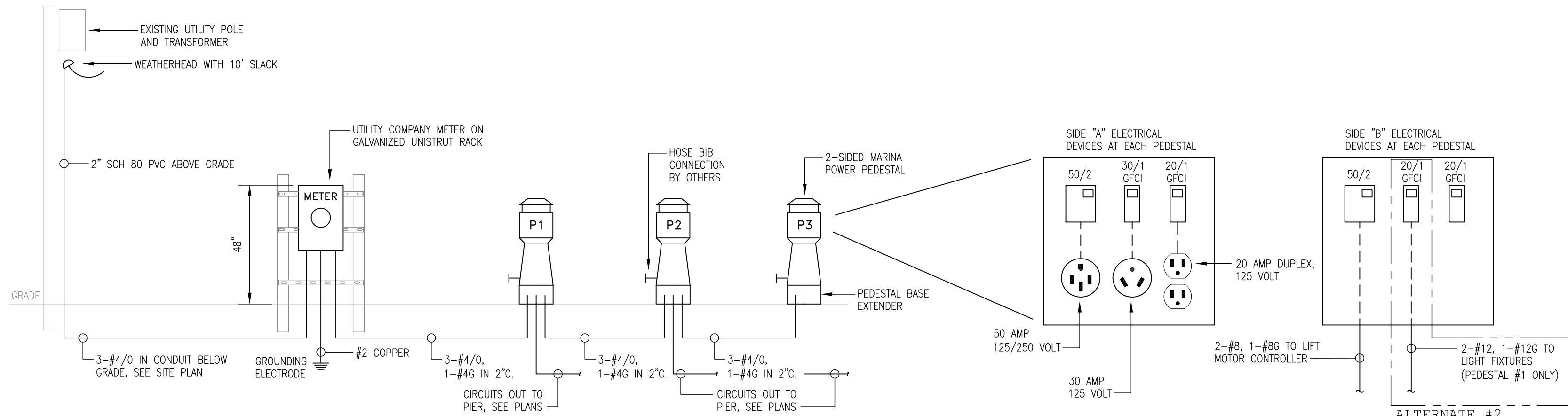
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SHEET 2 OF 3

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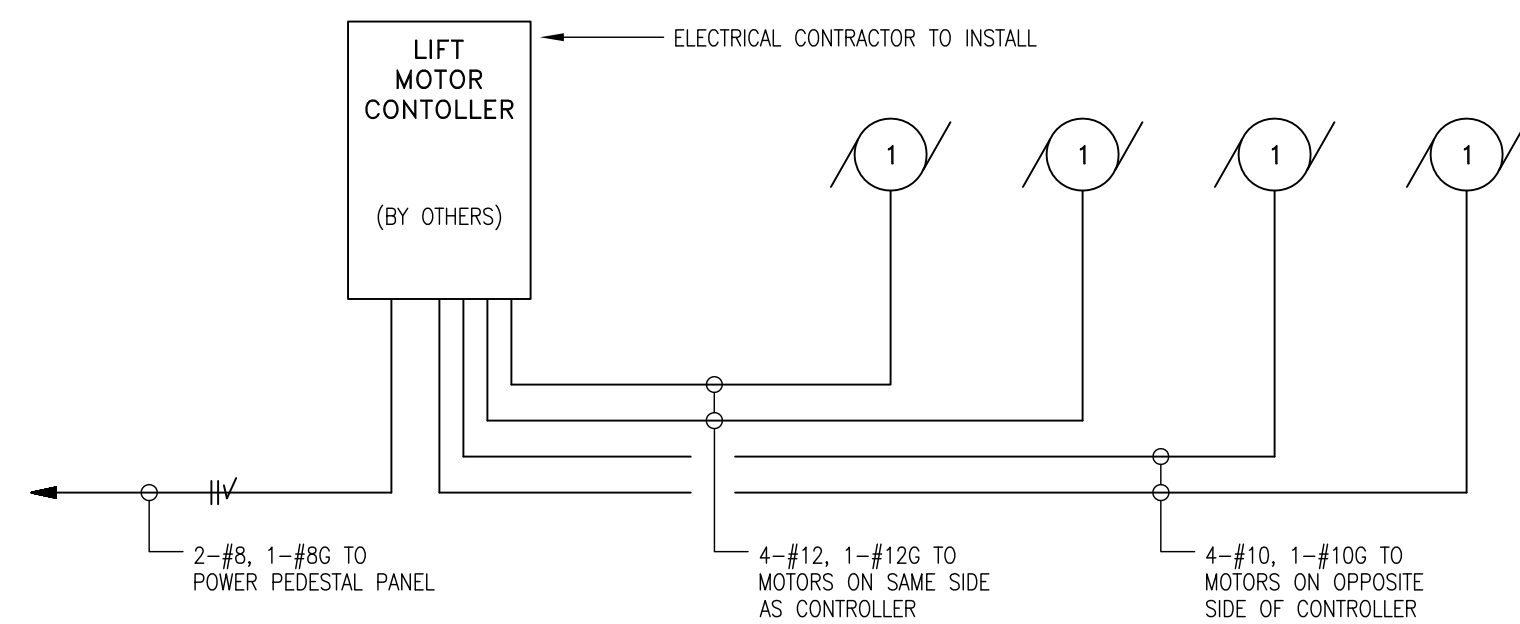
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1 SECTION DETAIL - BOAT LIFT
SCALE: 1/4" = 1'-0"



2 POWER RISER DIAGRAM
SCALE: NONE



3 MOTOR CONNECTION DETAIL
SCALE: NONE

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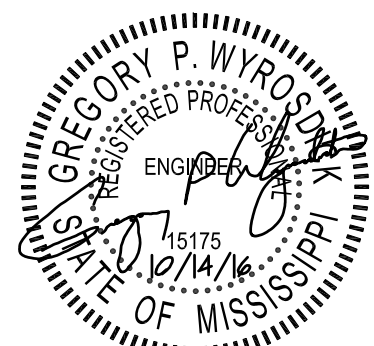
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES
BOAT LIFTS AT THE OCEAN SPRINGS HARBOR
ALTERNATE #2
ELECTRICAL SECTION & DETAILS

SCALE: AS NOTED
JOB NO.: 216-015
DATE: JULY 2016
DSGN.: GJD
DWG. BY: JWH
CHK.: GPW
APVD.:

VERIFY SCALES
BASE IS ONE INCH ON
ORIGINAL DRAWING.
DIMENSIONS ARE IN
FEET AND INCHES.
SCALE: 1" = 1'

E1.3

SHEET 3 OF 3



WELCON
ELECTRICAL CONSULTANTS, PLLC
14231 DEWAY ROAD, SUITE #3002
GULFPORT, MISSISSIPPI 39503
228.822.8000 FAX 228.206.3000
WEC PROJECT #: 116-076

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10/14/16	ISSUED FOR BID	JH	GW	10/17/16	ISSUED FOR BID	JH	GW	12/01/16	ISSUED FOR BID	JH	GW								
DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD	DATE	DESCRIPTION	BY	APVD