

## **ADDENDUM 01**

### **EAST PIER DEEP WATER WHARF FOR USM/NOAA**

Date: February 21, 2024

Project #: 0297.23.001

Project Name: East Pier Deep Water Wharf for USM/NOAA  
30<sup>th</sup> Avenue  
Gulfport, MS 39501

Owner: MS State Port Authority at Gulfport  
P.O. Box 40  
Gulfport, MS 39502

To: All Prospective Bidders

From: Nicholas Moody, PE, LEED AP BD+C

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#### **Bidders are hereby informed that the Project Manual and Drawings are modified as follows:**

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents with a submittal signed and stamped date of January 18, 2024. It is the General Contractor's responsibility for providing proper acknowledgement and receipt of this Addendum in the Bid Forms/Document.

Attachments to this Addendum: As described herein

Total Number of Pages in this Addendum: 27 Pages

#### **PART A: GENERAL ADDENDUM, BIDDING, AND/OR PROJECT NOTES:**

- A1. Pre-Bid meeting agenda attached. This is intended for reference purposes only and is not considered part of the contract documents.
- A2. Pre-Bid meeting sign in sheet attached. This is intended for reference purposes only and is not considered part of the contract documents.
- A3. Project Milestone Schedule:
  - 1. Milestone #1 – Substantial Completion must be achieved within 240 consecutive calendar days after the Notice to Proceed date.
  - 2. Milestone #2 – Substantial Completion for the entire project scope must be achieved within 400 consecutive calendar days after the Notice to Proceed date.
  - 3. Milestone #3 timeline remains the same.

## **PART B: CONTRACTOR QUESTIONS WITH RESPONSES (Responses are in RED)**

*Note: If you do not see your question answered, then we are still researching or working on a solution.*

- B1. Where will construction laydown area be located? **See Sheet C204 and C206 for laydown areas.**
- B2. Is it a possibility to delay the issuance of the notice to proceed to account for the long lead times of some of the products? **It is not an option to delay the issuance of the notice to proceed. The contract times for each milestone have been revised to account for the product lead times. Refer to Part D of this addendum.**
- B3. Please advise drop dead date for delivery of the fenders and Bollards after submittal, after manufacture, after testing? **See response above. Contractor should expedite submittals for fenders and bollards upon receiving the notice to proceed**
- B4. What are the dimensions of the fender panel or is this left to fender manufacturer? Length is given as 13 feet even on drawings, What is the width. **The flat, contact surface of the fender is to be 11'-0" vertical x 4'-0" wide. The overall fender dimensions are to be 13'-0" vertical x 6'-0" wide.**
- B5. Requirements are for 2 Type 1 fenders and 2 type 2 fenders with panels. Also there is requirement for 4 "modified" fenders. Does this include fender and panel or just spool? **The modified fender is detailed on 1 and 2 of S201. The modification requires a new spool to extend the fender line as indicated and, if required, provide new chains, etc. as recommended by the manufacturer. Quantity of fenders are per Bid Form and Contract Drawings.**
- B6. RE Bollards: Specification calls out CAST IRON Material. We suggest specifying CAST STEEL. Will you accept cast steel bollards? We feel cast iron is an inferior product for this application. **Cast iron is required due to superior corrosive resistance.**

## **PART C: DRAWING CLARIFICATIONS, REVISIONS, AND ADDITIONS:**

- C1. Civil Sheets:
1. Replace Sheet C204 in its entirety.
  2. Added Sheet C206 to show laydown area for the East Pier.
- C2. Structural Sheets:
1. SD100 Note:
    - Remove Type 1 MV Fenders in their entirety, anchor plates to remain if approved by fender manufacturer (12 total field verify) – Alternate 3.
  2. S102 Note:
    - 3/8" 304 Stainless Steel slip resistant floor plate, shall be revised to "3/8" steel resistant floor plate."
  3. Replace Sheet S100 in its entirety.
- C3. Plumbing Sheets:
1. P001: Plumbing Note I:
    - All new ductile iron pipe shall be painted with a rust preventative alkyd primer and two alkyd enamel topcoats, pressure sewer shall be painted green. Water shall be painted blue to match existing.

C4. Electrical Sheets:

1. Replace the following electrical sheets in their entirety.
  - E101
  - E111
  - E201
  - E601
  - E602
  - E605

**PART D: SPECIFICATION CLARIFICATIONS, REVISIONS, AND ADDITIONS**

- D1. Bid Form – Replace this section in its entirety.  
D2. 012200 – Unit Prices – Replace this section in its entirety.

**PART E: APPROVED PRODUCT/VENDOR EQUALS**

- E1. None this addendum.

**END OF ADDENDUM 01**

## PRE-BID MEETING

Mississippi State Port Authority at Gulfport  
East Pier Deep Water Wharf for USM/NOAA  
0297.23.001

### Date/ Time:

Thursday, February 15, 2024, 2:00 pm

### Pre-Bid Meeting Location:

Mississippi State Port Authority at Gulfport (MSPA)  
2510 14<sup>th</sup> Street  
Gulfport, MS 39501

### Introductions:

- Owner Representatives:
  - James Buras, PE – Port Engineer
  - Teresa Ehrlich – Project Manager
  - Cindy Ford – Engineering Administrative Assistant
- Design Team:
  - David Machado, PE – Principal-in-charge
  - Nick Moody, PE, LEED AP BD+C – Project Manager
  - Michael Beverin – Project Engineer
  - Micah van Duijvendijk – Project Engineer
  - Dylan Menhennet – Project Engineer
  - Maddie Costelli Pettry – Structural Engineer

### Project Location:

Mississippi State Port Authority at Gulfport

- East Pier
- Small Boat Pier – west bank of the port
- Cotton Compress Site – 28<sup>th</sup> Street Gulfport

### Project Description

- This project includes outfitting the existing east pier with infrastructure to support research vessels for USM and NOAA, modifications to the “Small Boat Pier” located west of the 30<sup>th</sup> Ave. entrance, and construction of a new severe weather storage area at MSPA’s Cotton Compress site. The infrastructure includes domestic water, sanitary sewer, fire water, electrical service, telecommunications, lighting, security fencing, new standoff fenders, modifications to existing fenders, and installation of new mooring bit bollards. There are four bid alternates for this project. Alternate #1 is the scope of work for the Small Boat Pier. Alternate #2 is the entire electrical scope at the severe weather site. Alternate #3 is to remove and replace 16 fenders. And Alternate #4 is to procure and install a new marine crane at the Small Boat Pier.

### Bid Day:

- Wednesday, February 28, 2024
- Unit price contract. Use the Schedule of Bid Items provided in the bid form.
- Sealed Bids inside an opaque envelope are due by 2:00 PM. Late bids will be considered invalid.
- Bids shall be delivered to 2510 14<sup>th</sup> Street, Suite 1450, Gulfport, Mississippi, 39501
- Bid Opening: Same day, after the bids are due bids will be opened, read out loud, and recorded.
- Review page 2 of the Advertisement to Bid along with the General Conditions for information required to submit with your bid.
- Use the MSPA bid form provided in the Project Manual. Be sure to complete, sign, and date the form.

- Complete the Certification Regarding Debarment Form included in the Project Manual.
- Complete the List of Subcontractors.
- Review insurance requirements/provisions for labor laws.
- Certification Letter stating the bidder will agree to use Mississippi products over non-Mississippi products when all things are equal with respect to price, quality, availability and service.
- Certification Letter stating all new labor hires will be residents of Mississippi.
- Non-resident Bidder – must provide a copy of contractor’s current State law pertaining to own State’s treatment of non-resident contractors.
- Provide two (2) copies of all submission documents.
- Bid must be accompanied by cash, a cashier’s check, certified check or bid bond in the amount of ten percent (10%) of the total bid amount.
- Mark the outside of the envelope clearly with the following information:
  - Project Name
  - Bid Date
  - Company Name
  - Company Address
  - All applicable state license and certificate numbers
  - Certificate of Responsibility Number is required for bids over \$50,000
  - No modifications may be made to the bid on the outside of the envelope.

**Information for Bidders:**

- All questions must be submitted electronically via email to Cindy Ford at cford@shipmspa.com.
- All addenda will be issued electronically via email from Central Bidding and Plan House.
- Cut off for questions will be Wednesday, February 21st at 5:00 pm.
- Contractor will be required to execute the Contract within fourteen (14) calendar days from the date of Notice of Award.
- After approval by the MSPA Board at its monthly meeting the contract will then be sent to MDA for execution. A fully executed contract should be distributed within 30 days of MDA’s signature.

**Addenda:**

- None at this time.

**Alternates: (not listed by rank of importance and owner reserves right to award in any order or grouping)**

- Alternate #1 is the scope of work for the Small Boat Pier.
- Alternate #2 is the entire electrical scope at the severe weather site.
- Alternate #3 is to remove and replace 16 fenders.
- Alternate #4 is to procure and install a new marine crane at the Small Boat Pier.

**Time of Completion:**

- Contract Time: 310 days.
- Project Milestones:
  - Milestone #1 – 180 days after NTP. Partial Substantial Completion: Contractor must have all items that are required to allow USM and NOAA vessels to be moored along the East Pier. Items to include the following: all new and modified fenders, all new bollards and bollards to be replaced, domestic water, sanitary sewer, fire water, lights, temporary power, and security fencing.
  - Milestone #2 - 280 days after NTP. Substantial completion for the entire project.
  - Milestone #3 – Final Completion/Acceptance. Project shall be fully complete and ready for final payment within 30 consecutive calendar days after Milestone #2.
- Weather delays have been included in the contract times. Inclement Weather Days, in accordance with the contract, beyond the days already included will be allowed with the Contractor’s written request and approved justification from the Engineer. Contractor is required to provide written notification of request within 10 days of the inclement weather event. Reference page 1-2 of the Contract.

**Liquidated Damages:**

- \$1,200 for each calendar day over the contract time. This applies to each milestone.

**Submittals:**

- Procore Software shall be the basis for file sharing, submittal review, and all other transmittals pertaining to the Work.

**Work Constraints:**

- Permitting is not required for work at the Port. Permitting will be required for work at Cotton Compress site.
- TWIC cards will be required for all personnel.
- Company vehicles used to access the site will have to be registered with MSPA operations.
- Owner will continue to occupy adjacent buildings and portions of the site. Confine operations to within limits of work.
- Coordinate job security with the MSPA security and operations.
- No obstruction of roadways, sidewalks, or other public pathways is allowed.
- No deadly weapons of any kind are permitted on the property.
- No tobacco products or alcohol are allowed on the construction site, or anywhere on the MSPA property.
- Coordinate utility outages with Engineer of Record seven (7) days prior.
- Hurricane Season: Contractor is responsible for any additional mobilization/storage costs made necessary by a hurricane threat level issued by the National Hurricane Center/NOAA/NWS.

**Temporary Facilities and Controls:**

- Temporary restrooms will be required.
- Job Security will be by the GC per contract.
- Waste removal is required to maintain a clean and orderly site.
- No burning or burying of waste allowed on site.
- Securing active work zones and providing barriers. Any unauthorized peoples will be the responsibility of the GC through the duration of the project.

**Temporary Utilities:**

- Temporary utilities, i.e., wifi/internet, water, sewer, electrical, etc. will be at the contractor's expense.

**Parking and Laydown:**

- Certain existing parking areas can be used by the construction personnel. This will be coordinated with the Owner after contract award along with a designated area for laydown.

**Questions**



# BID FORM

Proposal of \_\_\_\_\_ (hereinafter called "Bidder"), doing business as a \_\_\_\_\_, (insert "a corporation," "a partnership," or "an individual" applicable; if a corporation, indicate state of incorporation) to the Mississippi State Port Authority ("hereinafter called "Port Authority" or "Authority"), an agency existing under the laws of the State of Mississippi.

In compliance with your Advertisement for Bids, Bidder hereby proposes to perform all Work for the Work of Improvement known as:

**“EAST PIER DEEP WATER WHARF FOR USM/NOAA”**

and all appurtenant Work and materials required to complete the Work, in strict accordance with the Contract Documents, within the time set forth therein, and at the prices stated below.

By submission of this Bid, each Bidder certifies, and in the case of a joint Bid, each party thereto certifies as to his/her own organizations, that this Bid has been arrived at independently, without consultation, communication or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

Bidder hereby agrees to commence Work of Improvement under this Contract within five (5) days after the date of service of the Notice to Proceed, and to fully complete the project within **310** consecutive calendar days thereafter as provided in Sections 7 and 34 of the General Conditions.

**Project Milestone Schedule:**

1. Milestone #1- Partial Substantial Completion: Contractor must have all items that are required to allow USM and NOAA vessels to be moored along the East Pier. Items to include the following: all new and modified fenders, all new bollards and bollards to be replaced, domestic water, sanitary sewer, fire water, lights, temporary power, and security fencing. Partial Substantial Completion must be achieved within 180 consecutive calendar days after the Notice to Proceed date.

2. Milestone #2 – Substantial Completion Date of Entire Project: Substantial completion for the entire project scope must be achieved within 280 consecutive calendar days after the Notice to Proceed date.

3. Milestone #3 – Final Completion/Acceptance: Project shall be fully complete and ready for final payment within 30 consecutive calendar days after the Milestone #2, Substantial Completion, date.

Bidder acknowledges receipt of the following Addenda: (if none, so state)

No. \_\_\_\_\_ Date: \_\_\_\_\_  
No. \_\_\_\_\_ Date: \_\_\_\_\_  
No. \_\_\_\_\_ Date: \_\_\_\_\_

Attached to this Bid is a list of subcontractors as required by Section 24 of the General Conditions and Advertisement for Bid.

Bidder agrees to perform all the work described in the Contract Documents for the amounts as set forth in the following Bid Form.



**BID FORM**  
Mississippi State Port Authority  
East Pier Deep Water Wharf For USM/NOAA  
Schedule of Bid Items

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
<b>Base Bid - Deep Water Wharf</b>					
1	MOBILIZATION / DEMOBILIZATION	LS	1		
2	GENERAL CONDITIONS	LS	1		
3	DEMOLITION	LS	1		
4	GROUT REMOVAL	CY	85		
5	ASPHALT PAVING	SY	1000		
6	CONCRETE PAVING (WHARF DECK)	SY	100		
7	STRUCTURAL GROUT FILL	CY	85		
8	SECURITY FENCE	LF	800		
9	AUTOMATIC GATE	EA	2		
10	4' WIDE PEDESTRIAN GATE	EA	2		
11	ABOVE GRADE UTILITY TRENCH (DETAIL #7, C620)	LF	236		
12	ABOVE GRADE UTILITY TRENCH (DETAIL #9, C620)	LF	45		
13	ABOVE GRADE UTILITY TRENCH (DETAIL #2, C621)	LF	120		
14	ABOVE GRADE UTILITY TRENCH (DETAIL #3, C621)	LF	120		
15	ABOVE GRADE UTILITY TRENCH (DETAIL #4, C621)	LF	5		
16	ELECTRICAL PULL BOX	EA	2		
17	6" SEWER FORCE MAIN (DUCTILE IRON)	LF	830		
18	6" SEWER FORCE MAIN (SDR 26 PVC)	LF	375		
19	2" SEWER FORCE MAIN (SCH 10 STAINLESS 316L)	LF	70		
20	VESSEL SEWER CONNECTIONS (2")	EA	1		
21	VESSEL SEWER CONNECTIONS (6")	EA	2		
22	8" WATER MAIN (DUCTILE IRON)	LF	300		
23	FIRE HYDRANT ASSEMBLY	EA	1		
24	2" WATER SERVICE (SCH 10 STAINLESS 316L)	LF	170		
25	VESSEL WATER CONNECTIONS	EA	3		
26	NEW FENDER (TYPE 1 FENDER)	EA	7		
27	REMOVE FENDER (TYPE 1 FENDER)	EA	1		
28	REPAIR FENDER (TYPE 1 FENDER)	EA	1		
29	NEW FENDER (TYPE 2 FENDER)	EA	2		
30	MODIFIED TYPE 2 FENDER	EA	4		
31	NEW MOORING BOLLARD	EA	27		
32	REMOVE EXISTING MOORING BOLLARD	EA	16		
33	NEW LADDER	EA	3		
34	ELECTRICAL PLATFORM #1	EA	1		
35	ELECTRICAL PLATFORM #2	EA	1		
36	ELECTRICAL CONDUIT AND CONDUCTOR	LS	1		
37	VESSEL SHORE POWER ENCLOSURES	EA	3		
38	SITE LIGHTING	LS	1		
39	TELECOMMUNICATIONS	LS	1		
40	MS POWER CONNECTION WITH TRANSFORMERS	LS	1	\$ 350,000.00	\$ 350,000.00

41	TEMPORARY POWER FOR VESSELS	LS	1		
42	STEEL PIPE BOLLARDS	EA	10		
43	TIMBER RAIL	LF	870		
44	100% COAL TAR EPOXY	LS	1		

**Base Bid - Severe Weather Site**

45	MOBILIZATION / DEMOBILIZATION	LS	1		
46	GENERAL CONDITIONS	LS	1		
47	DEMOLITION (SEVERE WEATHER SITE)	LS	1		
48	STRIPPING (SEVERE WEATHER SITE)	CY	425		
49	610 LIMESTONE (SEVERE WEATHER SITE)	CY	515		
50	SECURITY FENCE (SEVERE WEATHER SITE)	LF	420		
51	20' DOUBLE GATE (SEVERE WEATHER SITE)	EA	1		

**TOTAL BASE BID UNIT PRICE SUM -**

**\$**

**TOTAL PROJECT BASE BID UNIT PRICE SUM - (in words):** \$ \_\_\_\_\_

**Dollars**

(Base Bid Unit Price Sum - in words)

**ALTERNATE NO. 1 - SMALL BOAT PIER SCOPE**

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
52	MOBILIZATION / DEMOBILIZATION	LS	1		
53	GENERAL CONDITIONS	LS	1		
54	RIP RAP REMOVAL AND REINSTALLATION	LS	1		
55	CONCRETE SLAB	SY	40		
56	CRANE FOUNDATION CONCRETE	LS	1		
57	TIMBER PILES	LF	195		
58	TEST PILE AND ASSOCIATED TESTING / REPORTING	LF	75		
59	SECURITY FENCE WITH 6' WIDE GATE	LS	1		
60	ELECTRICAL PEDESTALS	EA	2		
61	ELECTRICAL LIGHTING	LS	1		

**TOTAL ALTERNATE #1 UNIT PRICE SUM -**

**\$**

**TOTAL ALTERNATE #1 UNIT PRICE SUM - (in words):** \$ \_\_\_\_\_

**Dollars**

(Alternate #1 Unit Price Sum - in words)

ALTERNATE NO. 2 - SEVERE WEATHER ELECTRICAL					
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
61	MOBILIZATION / DEMOBILIZATION	LS	1		
62	GENERAL CONDITIONS	LS	1		
63	LIGHT POLES	EA	4		
64	PEDESTALS	EA	8		
65	GENERATOR	EA	1		
66	PANELS	LS	1		
67	MS POWER CONNECTION AND TRANSFORMERS	LS	1	\$ 150,000.00	\$ 150,000.00
68	CONCRETE PAD FOR GENERATOR	LS	1		
69	CONCRETE PAD FOR TRANSFORMER	LS	1		
<b>TOTAL ALTERNATE #2 UNIT PRICE SUM -</b>				\$	

**TOTAL ALTERNATE #2 UNIT PRICE SUM - (in words):** \$ \_\_\_\_\_

Dollars

(Alternate #2 Unit Price Sum - in words)

ALTERNATE NO. 3 - EAST PIER FENDERS					
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
70	REMOVE AND REPLACE TYPE 1 FENDERS	EA	12		
<b>TOTAL ALTERNATE #3 UNIT PRICE SUM -</b>				\$	

**TOTAL ALTERNATE #3 UNIT PRICE SUM - (in words):** \$ \_\_\_\_\_

Dollars

(Alternate #3 Unit Price Sum - in words)

ALTERNATE NO. 4 - SMALL BOAT PIER CRANE					
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
71	MARINE CRANE	EA	1		
<b>TOTAL ALTERNATE #3 UNIT PRICE SUM -</b>				\$	

**TOTAL ALTERNATE #3 UNIT PRICE SUM - (in words):** \$ \_\_\_\_\_

Dollars

(Alternate #4 Unit Price Sum - in words)

## **“East Pier Deep Water Wharf for USM/NOAA”**

Note: Bids shall include all applicable taxes and fees. All blanks shall be filled in. Total amount of Bid shall be the sum of all the Pay Items. Contract Award will be made based upon the pricing of this Bid Schedule and the contractor qualifications as set forth in the bid documents. In case of discrepancy between the sum of the items and Total Amount of Bid, the sum of the items shall be considered to be the Total Amount of Bid. Award will be made to only one Bidder based upon the Base Bid as applicable from this Bid Form and determination of best value. Bid alternates provided on the Bid Form are not listed by any rank of importance and the Owner reserves the right to award an alternate or alternates in any order or grouping.

The undersigned, having read and understood the Bidding Documents and examined the Project site and adjoining areas, and being familiar with the obstacles and conditions that will affect proposed Work, hereby offers and agrees to furnish all labor, equipment and materials and to perform all the Work required for **“East Pier Deep Water Wharf for USM/NOAA”** project at the Mississippi State Port Authority at Gulfport, Port of Gulfport, Gulfport, Mississippi in accordance with the Contract Documents and at the prices stated in the preceding Bid Schedule.

\_\_\_\_\_  
Legal Name of Bidder

\_\_\_\_\_  
Address

\_\_\_\_\_  
Signature of Authorized Person

\_\_\_\_\_  
City, State Zip

\_\_\_\_\_  
Name & Title of Authorized Person

\_\_\_\_\_  
Attest

\_\_\_\_\_  
Name & Title

\_\_\_\_\_  
(SEAL--if Bid is by a corporation)

Notes:

If Bid is by a corporation, corporate seal is affixed in space provided immediately above.

Signature is by an individual legally authorized to bind Bidder to a contract. If signature is by an agent of Bidder, the current power-of-attorney verifying agent's authority to bind Bidder is attached.

**LIST OF SUBCONTRACTORS TO BE SUBMITTED WITH BID**

**“East Pier Deep Water Wharf for USM/NOAA”**

Pursuant to the General Conditions, the Advertisement for Bids and the Information for Bidders, the undersigned Bidder hereby submits the following list of each Subcontractor, and their current certificate of responsibility, who will perform work or labor or render services, or who will specifically fabricate and install any portion of the Work according to detailed Drawings contained in the Plans and Specifications, that is in an amount in excess of \$50,000.00.

<b>Description of the Work to be performed by the Subcontractor</b>	<b>Name and Address of Subcontractor</b>	<b>Estimated Dollar Amount</b>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Date: \_\_\_\_\_

\_\_\_\_\_  
Bidder

\_\_\_\_\_  
Name (printed or typed)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

End of Bid Form

**SECTION 012200  
UNIT PRICES**

**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Measurement and payment criteria applicable to Work performed under a unit price payment method.

**1.02 COSTS INCLUDED**

- A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

**1.03 UNIT QUANTITIES SPECIFIED**

- A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.

**1.04 MEASUREMENT OF QUANTITIES**

- A. Contractor will take all measurements and compute quantities. Measurements and quantities will be verified by Engineer/Architect or Engineer of Record.
- B. Assist by providing necessary equipment, workers, and survey personnel as required.
- C. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness. Soils muck out volume will be determined by Final Measure (FM).
- D. Measurement by Area: Measured by square dimension using mean length and width or radius. Area will be determined by Final Measure (FM).

**1.05 PAYMENT**

- A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Engineer/Architect, multiplied by the unit price. See Section 1.07 Schedule of Values for a description of work that is paid under each pay item.
- B. Payment will not be made for any of the following:
1. Products wasted or disposed of in a manner that is not acceptable.
  2. Products determined as unacceptable before or after placement.
  3. Products not completely unloaded from the transporting vehicle.
  4. Products placed beyond the lines and levels of the required Work.
  5. Products remaining on hand after completion of the Work.
  6. Loading, hauling, and disposing of rejected Products.

**1.06 DEFECT ASSESSMENT**

- A. Replace Work, or portions of the Work, not complying with specified requirements.

**1.07 SCHEDULE OF UNIT PRICES**

- A. All unit prices provided below should include all labor, materials, and equipment necessary to satisfactory complete the work as specified.
- B. Base Bid - Deep Water Wharf
1. Mobilization / Demobilization: Mobilization shall be paid for at the contract unit price per lump sum.
  2. General Conditions: Shall be paid for at the contract unit price per lump sum.
  3. Demolition: Shall be paid for at the contract unit price per lump sum, which shall include all items shown on the demolition plan sheets and information provided in Section 024100 - Demolition unless specifically provided in a separate pay item. Pay item should include all labor, materials and equipment necessary to satisfactory complete the work as specified on the civil, structural, and electrical plans and specifications.
  4. Grout Removal: Shall be paid for the contract unit price per cubic yard.

5. Asphalt Paving: Shall be paid for at the contract unit price per square yard. Pay item should include the cost 610 limestone, surface course, and binder course.
6. Concrete Paving (Wharf Deck): Shall be paid for at the contract unit price per square yard. Pay item should include the cost for concrete reinforcement.
7. Structural Grout Fill: Shall be paid for the contract unit price per cubic yard.
8. Security Fence: Shall be paid for at the contract unit price per linear foot.
9. Automatic Gate: Shall be paid for at the contract unit price per each. Pay item should include the gate, the gate operator, all mechanism and hardware for the gate system, traffic safety loops, traffic paint, access readers, pedestals for access readers, and all electrical wiring required for the gate system.
10. 4' Wide Pedestrian Gate: Shall be paid for at the contract unit price per each.
11. Above Grade Utility Trench (Detail #7, C620): Shall be paid for at the contract unit price per linear foot. Pay item should include the cost to install the utility trench shown in Detail #7 on Sheet C620. Conduit and utility piping should be paid for under other pay items.
12. Above Grade Utility Trench (Detail #9, C620): Shall be paid for at the contract unit price per linear foot. Pay item should include the cost to install the utility trench shown in Detail #8 on Sheect C620. Conduit and utility piping should be paid for under other pay items.
13. Above Grade Utility Trench (Detail #2, C621): Shall be paid for at he contract unit price per linear foot. Pay item should include the cost to install the utility trench shown in Detail #2 on Sheet C621. Conduit and utility piping should be paid for under other pay items.
14. Above Grade Utility Trench (Detail #3, C621): Shall be paid for at the contract unit price per linear foot. Pay item should include the cost to install the utility trench shown in Detail #3 on Sheet C621. Conduit and utility piping should be paid for under other pay items.
15. Above Grade Utility Trench (Detail #4, C621): Shall be paid for at the contract unit price per linear foot. Pay item should include the cost to install the utility trench shown in Detail #4 on Sheet C621. Conduit and utility piping should be paid for under other pay items.
16. Electrical Pull Box: Shall be paid for at the contract unit price per each. Pay item should include the cost to install pull box shwon in Detail #1 on Sheet C621. Conduit and utility piping should be paid for under other pay items.
17. 6" Sewer Force Main (Ductile Iron): Shall be paid for at the contract unit price per linear foot. Pay item should include the cost for valves, fittings, excavation, dewatering, backfilling, thrust blocks, marking tape, locator wire, sheathing, shoring, and pipe hangers to mount to the pier.
18. 6" Sewer Force Main (SDR 26 PVC): Shall be paid for at the contract unit price per linear foot. Pay item should include the cost for valves, fittings, excavation, dewatering, backfilling, thrust blocks, marking tape, locator wire, sheathing, shoring, connection to the existing manhole, and pipe embedment.
19. 2" Sewer Force Main (SCH 10 Stainless 316L): Shall be paid for at the contract unit price per linear foot. Pay item should include the cost for valves, fittings, excavation, dewatering, backfilling, thrust blocks, marking tape, locator wire, sheathing, shoring, and pipe hangers to mount to the pier.
20. Vessel Sewer Connection (2"): Shall be paid for at the contract unit price per each. Pay item should include the cost for the spill containment curb, 2" header, 2.5" M Camlock, and 2" check valve.
21. Vessel Sewer Connection (6"): Shall be paid for at the contract unit price per each. Pay item should include the cost for the spill containment curb, 6" header, 2.5" M Camlock, and 2" check valve.
22. 8" Water Main (Ductile Iron): Shall be paid for at the contract unit price per linear foot. Pay item should include the cost for excavation, dewatering, marking tape, locator wire, fittings, blocking, thrust blocks, backfilling, tie-ins for water lines, pipe hangers and clamps, and mounting hardware to mount the main to the pier.
23. Fire Hydrant Assembly: Shall be paid for at the contract unit price per each. Pay item should include the cost for valves required as part of the assembly.
24. 2" Water Service (SCH 10 Stainless 316L): Shall be paid for at the contract unit per per linear foot. Pay item should include the cost for excavation, dewatering, marking tape, locator wire, fittings, blocking, thrust blocks, backfilling, tie-ins for water lines, and

- mounting hardware to mount the service to the pier.
25. Vessel Water Connections: Shall be paid for at the contract unit price per each. Pay item should include the cost for 2" M Camlock, 1.5" threaded hose connection and 3/4" hose bib.
  26. New Fender (Type 1 Fender): Shall be paid for at the contract unit price per each. Pay item should include the cost for installation of the concrete foundation and new fender.
  27. Remove Fender (Type 1 Fender): Shall be paid for at the contract unit price per each. Pay item should include the cost to remove the existing fender in its entirety.
  28. Repair Fender (Type 1 Fender): Shall be paid for at the contract unit price per each. Pay item should include all labor and material to repair the existing fender.
  29. New Fender (Type 2 Fender): Shall be paid for at the contract unit price per each. Pay item should include the cost for installation of the concrete foundation and new fender.
  30. Modified Type 2 Fender: Shall be paid for at the contract unit price per each. Pay item should include the cost for removing parts of the existing fender system and installing new fender parts.
  31. New Mooring Bollard: Shall be paid for at the contract unit price per each. Pay item should include the cost for installation of the concrete foundation and new bollard.
  32. Remove Existing Mooring Bollard: Shall be paid for at the contract unit price per each. Pay item should include the cost to remove the existing mooring bollard in its entirety and any removal required to the concrete foundation/pedestal.
  33. New Ladder: Shall be paid for at the contract unit price per each.
  34. Electrical Platform #1: Shall be paid for at the contract unit price per each.
  35. Electrical Platform #2: Shall be paid for at the contract unit price per each.
  36. Electrical Conduit and Conductor: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost all conduit, conductor, grounding, mounting beam, pipe hangers to mount conduit to the pier, duct bank spacers, and pipe clamps.
  37. Vessel Shore Power Enclosure: Shall be paid for at the contract unit price per each. Pay item should include the cost to install the concrete pedestal and enclosure.
  38. Site Lighting: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost to install the concrete pedestal and light pole.
  39. Telecommunications: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost for conduit, wire, pipe hangers, pipe clamps,
  40. MS Power Connection with Transformers: Shall be paid for at the contract unit price per lump sum.
  41. Temporary Power for Vessels: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost for generators and fuel to provide temporary power to the vessels from the substantial completion of Milestone #1 through project completion.
  42. Steel Pipe Bollard: Shall be paid for at the contract unit price per each. Pay item should include the steel pipe, mounting hardware, installation, paint, and concrete to fill the pipe.
  43. Timber Rail: Shall be paid for at the contract unit price per linear foot. Pay item should include the timber rail, mounting hardware, and installation.
  44. 100% Coal Tar Epoxy: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost for material and installation.
- C. Base Bid - Severe Weather Site
1. Mobilization / Demobilization: Mobilization shall be paid for at the contract unit price per lump sum.
  2. General Conditions: Shall be paid for at the contract unit price per lump sum.
  3. Demolition (Severe Weather Site): Shall be paid for at the contract unit price per lump sum, which shall include all items shown on the demolition plan sheets and information provided in Section 024100 - Demolition. Pay item should include all labor, materials and equipment necessary to satisfactory complete the work as specified.
  4. Stripping (Severe Weather Site) (AH)(FM): Shall be paid for at the contract unit price per cubic yard. Stripping excavation will consist of the removal of the top layer of vegetation at to a depth of 6". "AH" means the cost of hauling material off the site is absorbed in the cost of this pay item. "FM" means final measure and the volume should be measure by



- LVM (loose vehicle measure) and converted to Contract measurement by multiplying the loose measure by 80 percent.
5. 610 Limestone (Severe Weather Site) (AH)(FM): Shall be paid for at the contract unit price per cubic yard. "AH" means the cost of hauling material off the site is absorbed in the cost of this pay item. "FM" means final measure and the volume should be measure by LVM (loose vehicle measure) and converted to Contract measurement by multiplying the loose measure by 80 percent.
  6. Security Fence (Severe Weather Site): Shall be paid at the contract unit price per linear foot.
  7. 20' Double Gate (Severe Weather Site): Shall be paid at the contract unit price per each.
- D. Alternate #1 - Small Boat Pier Scope
1. Mobilization / Demobilization: Mobilization shall be paid for at the contract unit price per lump sum.
  2. General Conditions: Shall be paid for at the contract unit price per lump sum. Refer to General Requirements in the project manual for requirements.
  3. Rip Rap Removal and Reinstallation: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost for all material and labor required to removal and reinstall the existing rip rap.
  4. Concrete Slab: Shall be paid for at the contract unit price per square yard. Pay item should include the cost for all material and labor required to install the concrete slab.
  5. Crane Foundation: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost for all material and labor required to install the concrete pad.
  6. Timber Piles: Shall be paid for at the contract unit price linear foot of driven pile. Pay item should include the cost for all material and labor required to install the timber piles. Pay item should also include cost for cutting off timber piles.
  7. Test Pile and Associated Testing / Reporting: Shall be paid for at the contract price per linear foot of test pile driven. Pay item should include the cost for all testing and reporting required by the test pile program.
  8. Security Fence with 6' Wide Gate: Shall be paid for at the contract unit price per lump sum.
  9. Electrical Pedestals: Shall be paid for at the contract unit price per each.
  10. Electrical Lighting: Shall be paid for at the contract unit price per lump sum.
- E. Alternate #2 - Severe Weather Electrical
1. Mobilization / Demobilization: Mobilization shall be paid for at the contract unit price per lump sum.
  2. General Conditions: Shall be paid for at the contract unit price per lump sum. Refer to General Requirements in the project manual for requirements.
  3. Light Poles: Shall be paid for at the contract unit price per lump sum.
  4. Pedestals: Shall be paid for at the contract unit price per each.
  5. Generator: Shall be paid for at the contract unit price per each. Pay item should include the cost of the generator and installation.
  6. Panels: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost for installation of the panel supports.
  7. MS Power Connection and Transformers: Shall be paid for at the contract unit price per lump sum.
  8. Concrete Pad For Generator: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost for all material and labor required to install the concrete pad.
  9. Concrete Pad for Transformer: Shall be paid for at the contract unit price per lump sum. Pay item should include the cost for all material and labor required to install the concrete pad
- F. Alternate #3 - East Pier Fenders
1. Remove and Replace Fenders: Shall be paid for at the contract unit price per each.
- G. Alternate #4 - Small Boat Pier Crane

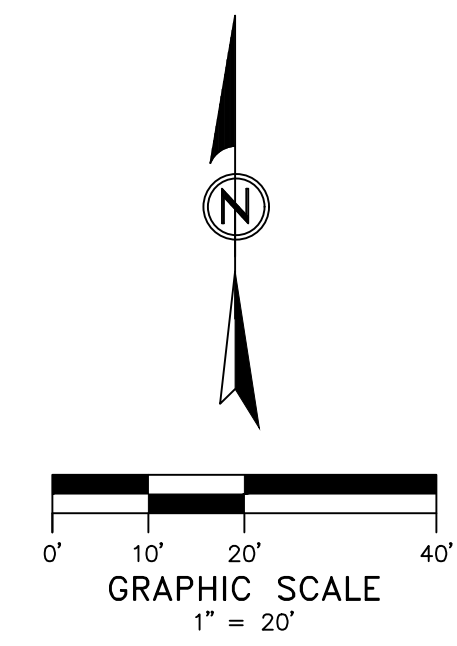
1. Marine Crane: Shall be paid for at the contract unit price per each. Pay item should include the cost for procurement of the new crane. delivery, and installation.

**PART 2 PRODUCTS - NOT USED**

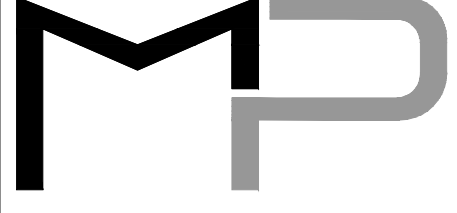
**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

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 m:\0297\_mspa\_gulfport\0297.23.001\_work order no. 4 - usm & noaa piers\02-civil\03-production drawings\usm & noaa east pier.dwg




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**EAST PIER DEEP WATER WHARF FOR  
 USM/NOAA  
 PORT OF GULFPORT MISSISSIPPI  
 STATE PORT AUTHORITY**

30TH AVENUE  
 GULFPORT, MS 39501

SCALE: AS INDICATED	
PROJECT NO: 0297.23.001	
DRAWN BY: NWM	
CHECKED BY: NWM	

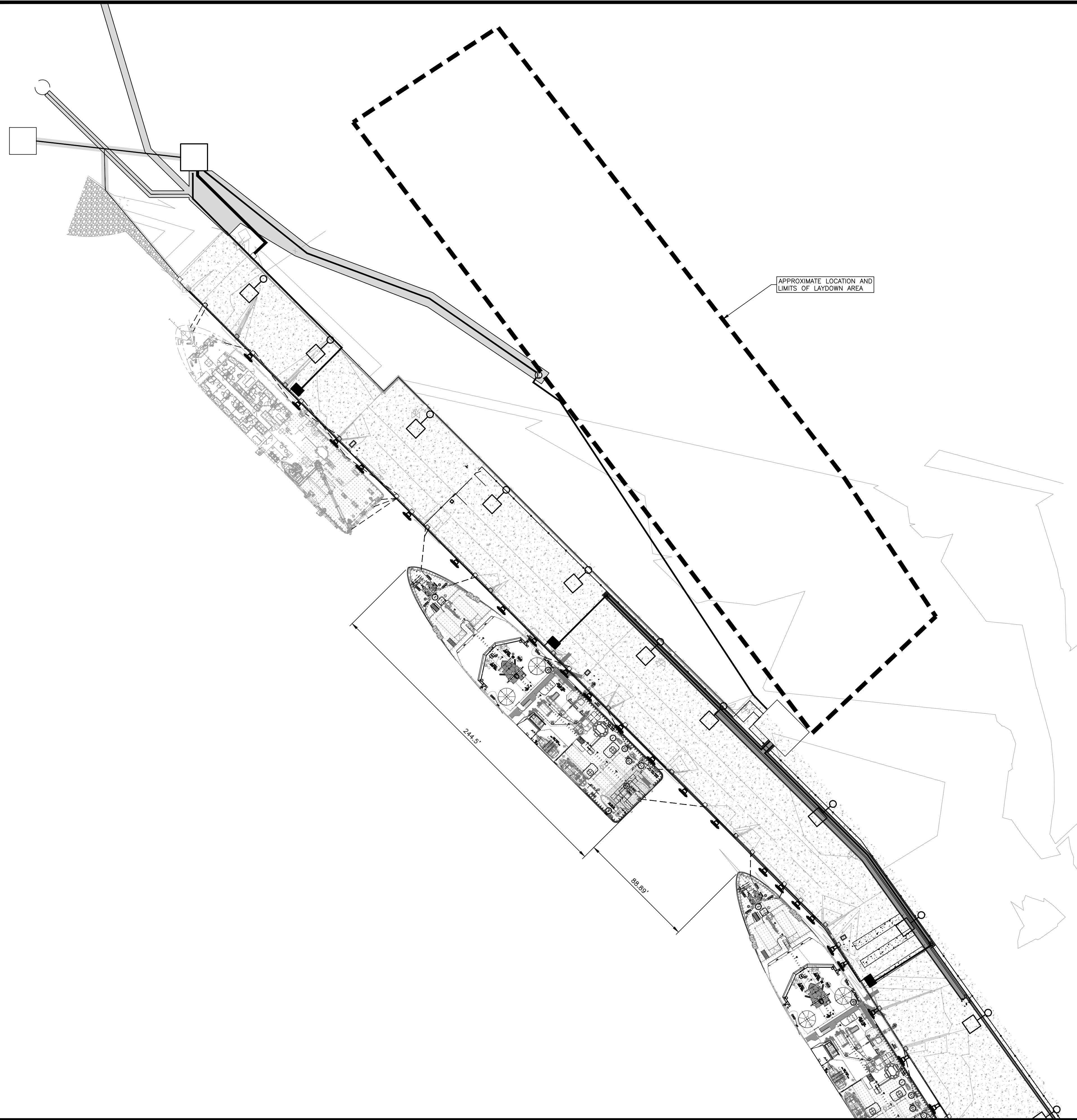
**SMALL BOAT PIER SITE PLAN  
 ALTERNATE #1**

NO.	DATE	REVISION / SUBMITTAL
REV 0	01.18.2024	ISSUED FOR BIDDING
REV 1	02.21.2024	ADDENDUM 01

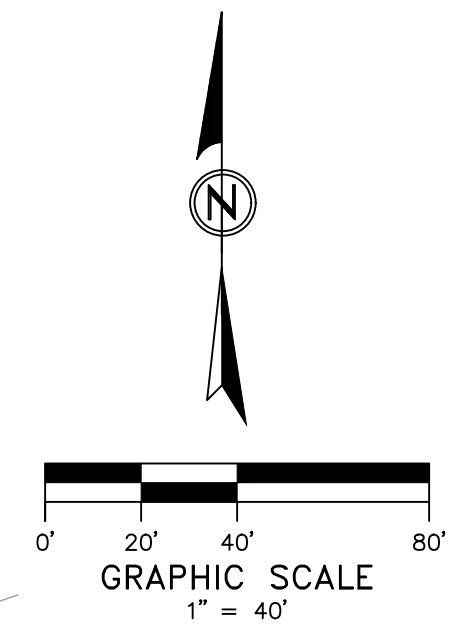
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SURVEY LEGEND	
	DENOTES WATER VALVE
	DENOTES ELECTRICAL MANHOLE
	DENOTES FIRE HYDRANT
	DENOTES DRAIN INLET
	DENOTES COMMUNICATIONS MANHOLE
	DENOTES EXISTING FENDER
	DENOTES EXISTING MOORING BOLLARD



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**EAST PIER DEEP WATER WHARF FOR USM/NOAA**  
**PORT OF GULFPORT MISSISSIPPI**  
**STATE PORT AUTHORITY**  
 30TH AVENUE  
 GULFPORT, MS 39501

SCALE:	AS INDICATED
PROJECT NO:	0297.23.001
DRAWN BY:	NWM
CHECKED BY:	NWM

**SITE PLAN - EAST PIER LAYDOWN AREA**

NO.	DATE	REVISION / SUBMITTAL
REV 0	01.18.2024	ISSUED FOR BIDDING

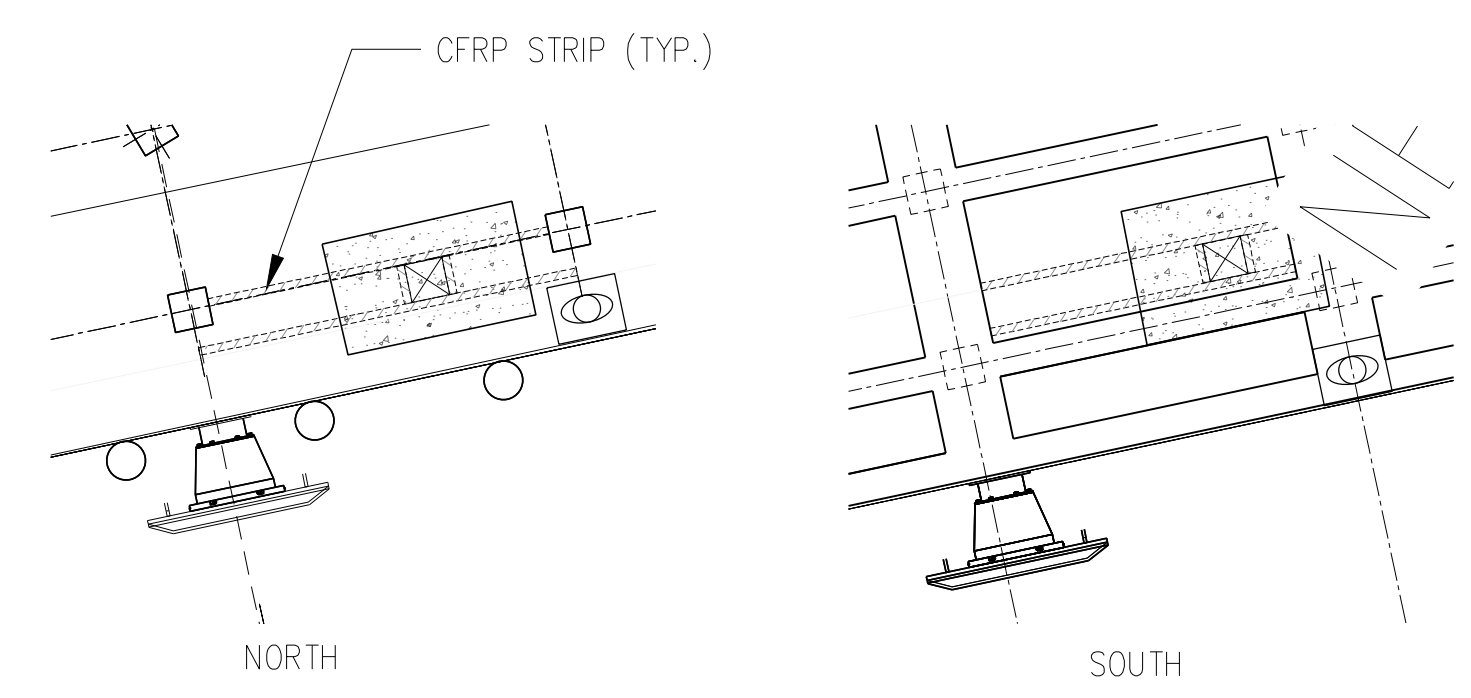
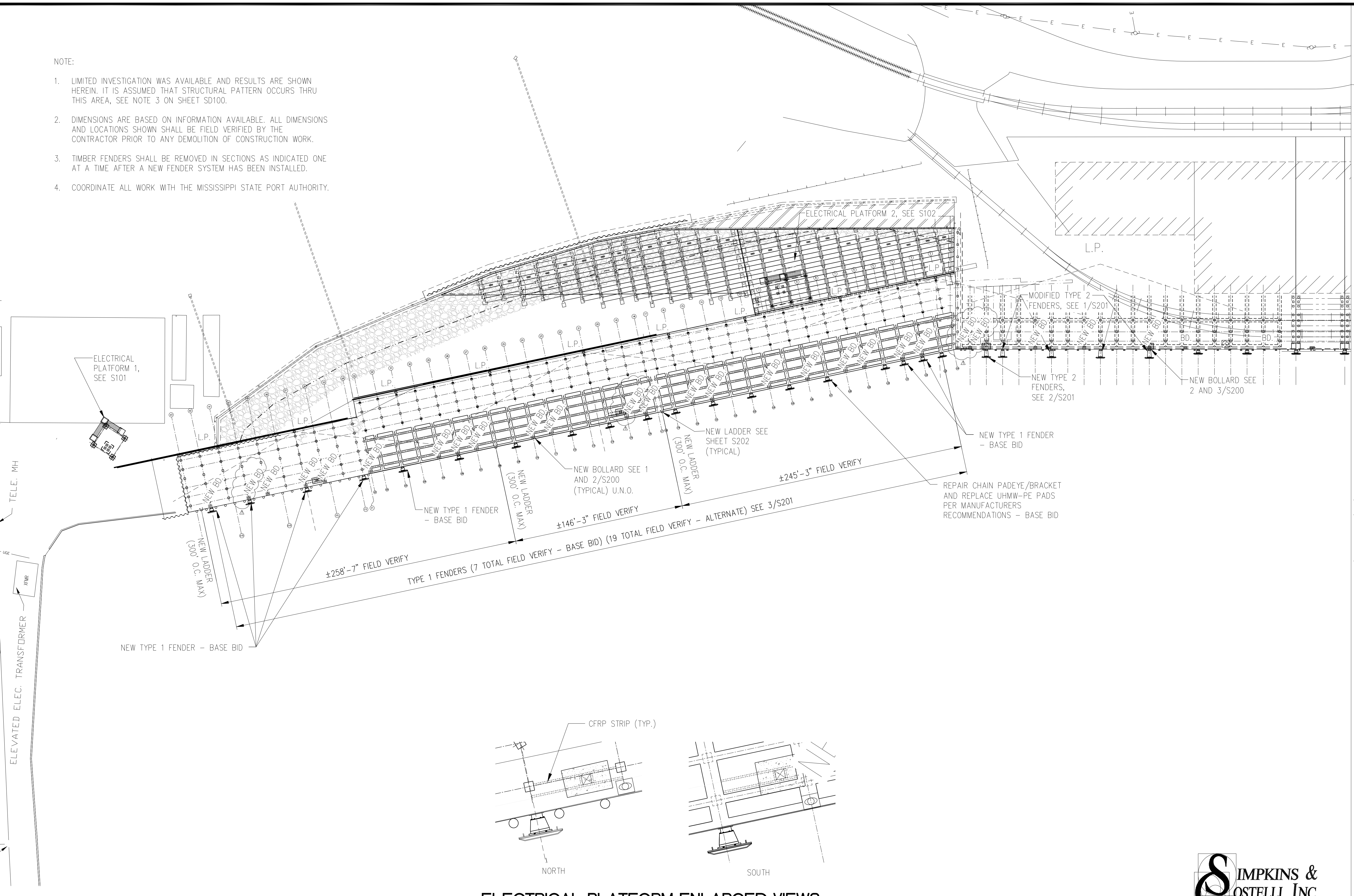
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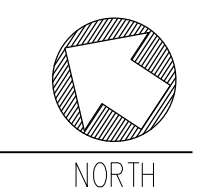
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 INV=073

- NOTE:
- LIMITED INVESTIGATION WAS AVAILABLE AND RESULTS ARE SHOWN HEREIN. IT IS ASSUMED THAT STRUCTURAL PATTERN OCCURS THRU THIS AREA, SEE NOTE 3 ON SHEET SD100.
  - DIMENSIONS ARE BASED ON INFORMATION AVAILABLE. ALL DIMENSIONS AND LOCATIONS SHOWN SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY DEMOLITION OF CONSTRUCTION WORK.
  - TIMBER FENDERS SHALL BE REMOVED IN SECTIONS AS INDICATED ONE AT A TIME AFTER A NEW FENDER SYSTEM HAS BEEN INSTALLED.
  - COORDINATE ALL WORK WITH THE MISSISSIPPI STATE PORT AUTHORITY.



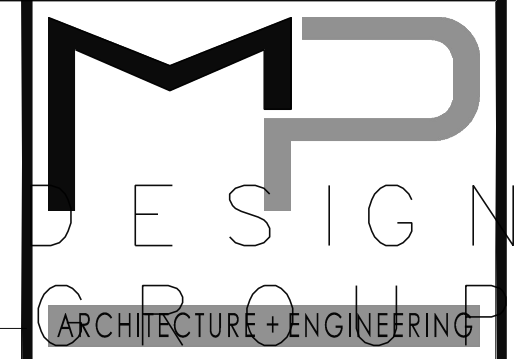
**PARTIAL NEW STRUCTURAL PLAN**

SCALE: 1" = 40'



**SIMPKINS & COSTELLI, INC.**  
 Consulting Engineers  
 Structural - Civil

P.O. Box 6235 Phone: 228-864-6289  
 401 32 Street Fax: 228-864-2897  
 Gulfport, MS 39506  
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**EAST PIER DEEP WATER WHARF FOR USM/NOAA**  
**PORT OF GULFPORT MISSISSIPPI**  
**STATE PORT AUTHORITY**

30TH AVENUE  
 GULFPORT, MS 39501

SCALE: AS NOTED  
 PROJECT NO: 0297.23.001  
 DRAWN BY: TJ/RSS  
 CHECKED BY: MCP

**PARTIAL NEW STRUCTURAL PLAN**

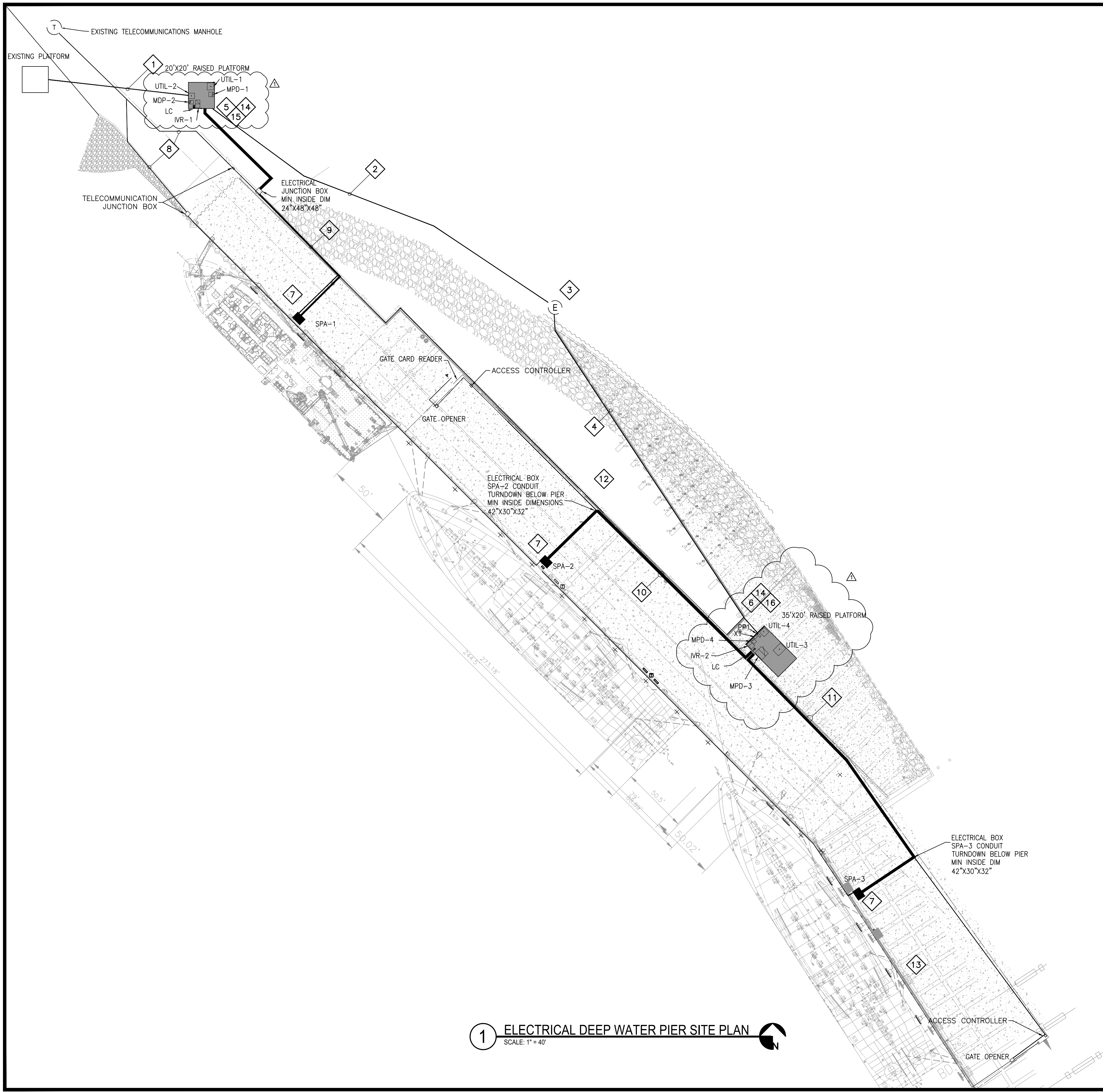
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REV 0	01.18.2024	ISSUED FOR BIDDING
REV 1	02.21.2024	ADDENDUM 1

**S100**

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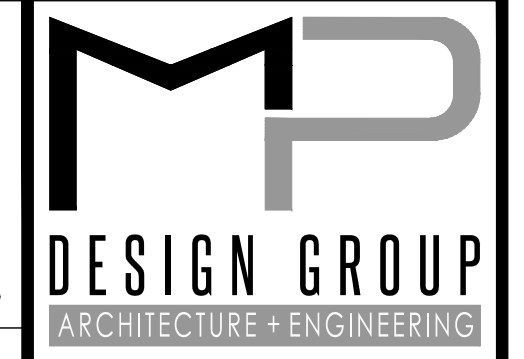
**1 ELECTRICAL DEEP WATER PIER SITE PLAN**  
 SCALE: 1" = 40'

**DRAWING E101 NOTES**

1. CONTRACTOR SHALL REMOVE ALL EXISTING RECEPTACLES, LIGHTING, SWITCHES, DISCONNECTS, CABLES AND CONDUIT ON PIER BACK TO SOURCE. COORDINATE WITH PORT
2. ALL UNDERGROUND CONDUIT FITTINGS SHALL BE 36" LONG RADIUS.
3. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PCV
4. INSTALL A METALLIC TRACER/WARNING TAPE 12" ABOVE ALL EXTERIOR CONDUITS. RED FOR POWER AND ORANGE FOR TELECOMMUNICATIONS.
5. ALL EXTERIOR CONDUIT ABOVE GRADE SHALL BE REINFORCED THERMOSETTING RESIN (RTRC). CONDUIT UNDER PIER SHALL BE EXTRA HEAVY WALL.
6. SAW CUT THROUGH EXISTING ASPHALT AND CONCRETE AND RETURN SURFACE GRADE MATERIALS AND GROUND TO ORIGINAL CONDITION.
7. ALL UNDERGROUND CONDUIT SHALL BE AT LEAST 36" BELOW GRADE.
8. CONTRACTOR SHALL COORDINATE CONDUIT ROUTING WITH CIVIL PLANS FOR POTABLE WATER AND SANITARY SEWER CROSSINGS.
9. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE ENTRANCE REQUIREMENTS. CONTRACTOR SHALL PAY ALL UTILITY FEES INCLUDING COST FOR TEMPORARY POWER DURING CONSTRUCTION.

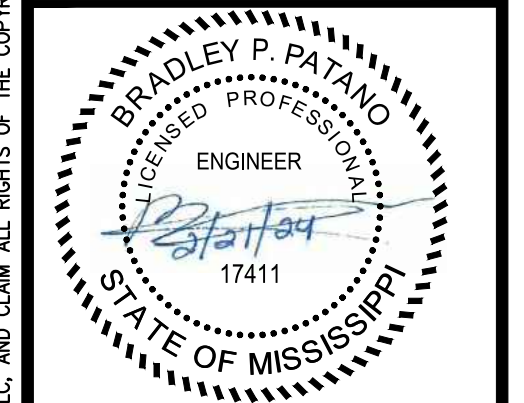
**DRAWING E101 SPECIFIC NOTES**

1. CONTRACTOR SHALL PROVIDE AND INSTALL (3) 3" SCHEDULE 80 PVC CONDUITS FROM EXISTING ELECTRICAL PLATFORM TO NEW NORTH ELECTRICAL PLATFORM. PRIMARY ELECTRICAL CABLE SHALL BE PROVIDED, INSTALLED AND TERMINATED BY UTILITY. COORDINATE EXACT ROUTING AND TERMINATIONS WITH UTILITY.
2. CONTRACTOR SHALL PROVIDE AND INSTALL (3) 3" SCHEDULE 80 PVC CONDUITS FROM THE NORTH ELECTRICAL PLATFORM TO ELECTRICAL MANHOLE. PRIMARY CABLE SHALL BE PROVIDED, INSTALLED AND TERMINATED BY UTILITY. COORDINATE EXACT ROUTING AND TERMINATIONS WITH UTILITY.
3. CONTRACTOR SHALL SUPPLY AND INSTALL 4'x4' (INSIDE DIMENSIONS) CONCRETE ELECTRICAL MANHOLE.
4. CONTRACTOR SHALL SUPPLY AND INSTALL (3) 3" RTRC CONDUIT FROM ELECTRICAL MANHOLE TO NEW SOUTH ELECTRICAL PLATFORM. MOUNT CONDUIT ON REAR OF EXISTING PIER WALL
5. CONTRACTOR SHALL PROVIDE AND INSTALL (4) 3" RTRC CONDUITS FROM THE MDP-1 TO UTILITY PROVIDED TRANSFORMER (UTIL-1) ON THE NEW NORTH ELECTRICAL PLATFORM. CONTRACTOR SHALL COORDINATE EXACT TURN UP AND TERMINATION POINT ON THE ELECTRICAL PLATFORM WITH THE LOCAL UTILITY.
6. CONTRACTOR SHALL PROVIDE AND INSTALL (7) 4" RTRC CONDUITS FROM THE MDP-3 TO UTILITY PROVIDED TRANSFORMER (UTIL-3) ON THE NEW ELECTRICAL PLATFORM EAST OF PIER. CONTRACTOR SHALL COORDINATE EXACT TURN UP AND TERMINATION POINT ON THE ELECTRICAL PLATFORM WITH THE LOCAL UTILITY.
7. CONTRACTOR SHALL PROVIDE AND INSTALL CUSTOM SHORE POWER ASSEMBLIES. ASSEMBLIES SHALL BE BY ESL POWER SYSTEMS OR APPROVED EQUAL.
8. CONTRACTOR SHALL PROVIDE AND INSTALL (4) 3" RTRC CONDUIT FOR DATA, TELEPHONE, AND CABLE TELEVISION FROM EXISTING TELECOMMUNICATION MANHOLE TO EACH SHORE POWER ASSEMBLY. CONTRACTOR SHALL COORDINATE INSIDE TERMINATION POINT WITH THE LOCATION OF THE SHORE POWER ASSEMBLY'S INTEGRATED TELECOMMUNICATION CABINET. SPA-1 CONDUIT ROUTING SHALL BE ON REAR OF PIER. SPA-2 AND SPA-3 CONDUIT SHALL BE ON FACE OF PIER.
9. CONTRACTOR SHALL PROVIDE AND INSTALL (4) 4" RTRC CONDUITS ON BACK OF PIER FROM MDP-1 TO SHORE POWER ASSEMBLY 1. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 4" RTRC CONDUIT FROM MDP-2 TO POWER ASSEMBLY 1. COORDINATE INSIDE TERMINATION POINT WITH LOCATION OF THE SHORE POWER ASSEMBLY. ALL CONDUIT ON PIER SHALL BE EXTRA HEAVY WALL IMPACT RESISTANT RTRC. SEE E502 FOR DETAIL
10. CONTRACTOR SHALL PROVIDE AND INSTALL (4) 4" RTRC CONDUITS FROM MDP-3 TO SHORE POWER ASSEMBLY 2. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 4" CONDUIT FROM MDP-4 TO SHORE POWER ASSEMBLY 2. CONTRACTOR SHALL COORDINATE INSIDE TERMINATION POINT WITH LOCATION OF SHORE POWER ASSEMBLY. CONDUIT SHALL BE IN ABOVE GRADE TRENCH. SEE CIVIL DRAWINGS FOR DETAILS.
11. CONTRACTOR SHALL PROVIDE AND INSTALL (4) 4" RTRC CONDUITS FROM MDP-3 TO SHORE POWER ASSEMBLY 3. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 4" CONDUIT FROM MDP-4 TO SHORE POWER ASSEMBLY 3. CONTRACTOR SHALL COORDINATE INSIDE TERMINATION POINT WITH LOCATION OF SHORE POWER ASSEMBLY. CONDUIT SHALL BE IN ABOVE GRADE TRENCH. SEE CIVIL DRAWINGS FOR DETAILS.
12. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 1" RTRC CONDUIT FROM SHORE POWER ASSEMBLY 2 TELECOMMUNICATIONS COMPARTMENT TO NORTH GATE ACCESS CONTROLLER.
13. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 1" RTRC CONDUIT FROM SHORE POWER ASSEMBLY 3 TELECOMMUNICATIONS COMPARTMENT TO SOUTH GATE ACCESS CONTROLLER.
14. SEE STRUCTURAL DRAWINGS FOR PLATFORM DETAILS.
15. CONTRACTOR SHALL PROVIDE AND INSTALL (2) 3" RTRC CONDUITS FROM THE MDP-2 TO UTILITY PROVIDED TRANSFORMER (UTIL-2) ON THE NEW NORTH ELECTRICAL PLATFORM. CONTRACTOR SHALL COORDINATE EXACT TURN UP AND TERMINATION POINT ON THE ELECTRICAL PLATFORM WITH THE LOCAL UTILITY.
16. CONTRACTOR SHALL PROVIDE AND INSTALL (2) 3" RTRC CONDUITS FROM THE MDP-4 TO UTILITY PROVIDED TRANSFORMER (UTIL-4) ON THE NEW ELECTRICAL PLATFORM EAST OF PIER. CONTRACTOR SHALL COORDINATE EXACT TURN UP AND TERMINATION POINT ON THE ELECTRICAL PLATFORM WITH THE LOCAL UTILITY.



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**EAST PIER DEEP WATER WHARF FOR USM/NOAA**  
**PORT OF GULFPORT MISSISSIPPI**  
**STATE PORT AUTHORITY**  
 30TH AVENUE  
 GULFPORT, MS 39501

SCALE: AS SHOWN  
 PROJECT NO: 0297.23.001  
 DRAWN BY: MAB  
 CHECKED BY: KDB

**ELECTRICAL DEEP WATER PIER SITE PLAN**

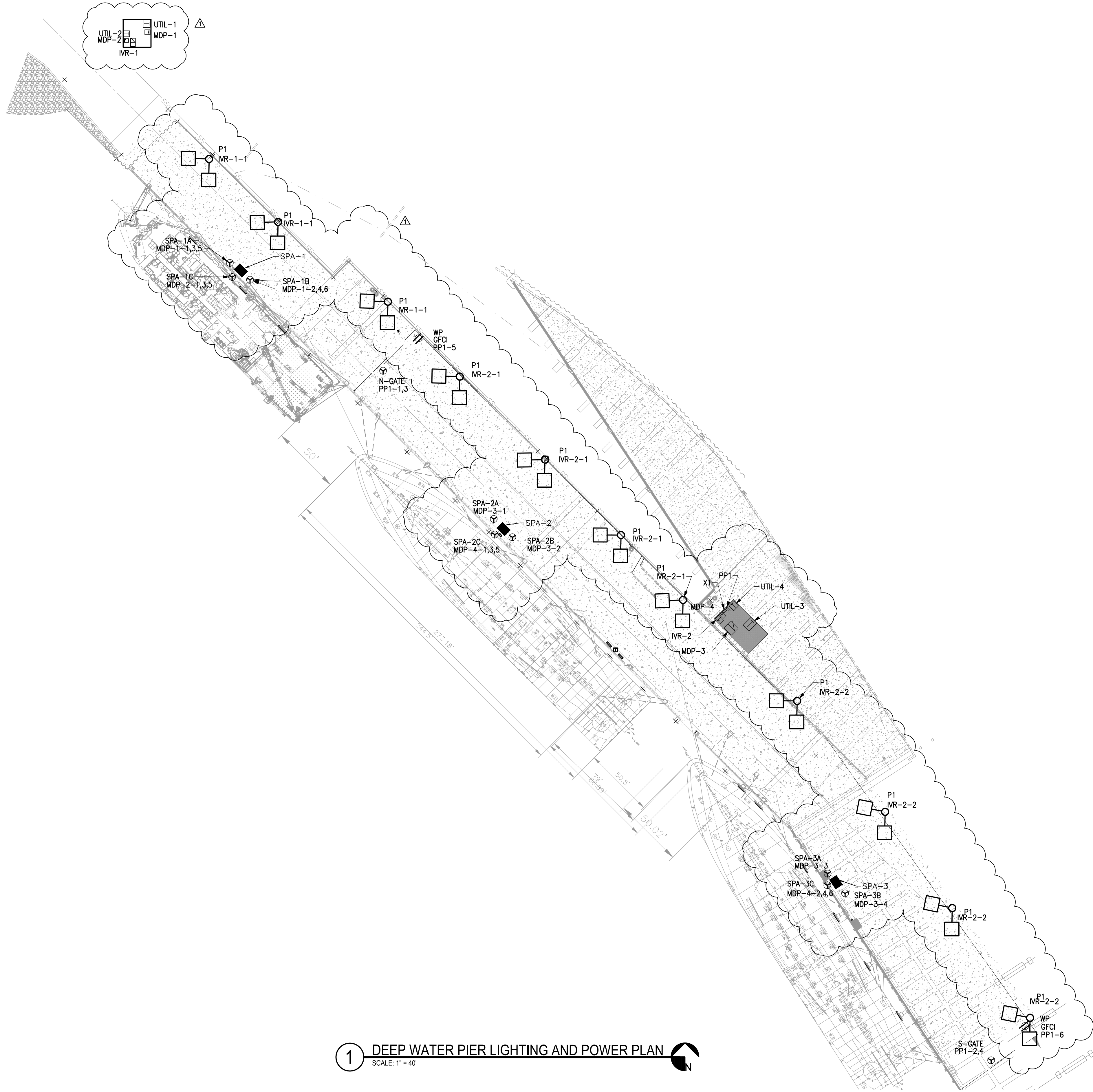
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REV 1	02.21.24	ADDENDUM 01

**E101**

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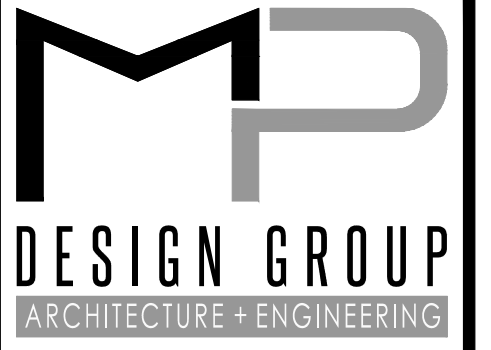
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**1 DEEP WATER PIER LIGHTING AND POWER PLAN**  
 SCALE: 1" = 40'

**DRAWING E111 NOTES**

- LIGHTING CIRCUITS SHALL BE THROUGH INVERTER AND LIGHTING CONTACTOR WITH DUSK TO DAWN PHOTOCELL AND PROVISION TO TEST LIGHTING DURING DAYLIGHT HOURS.
- SHORE POWER ASSEMBLIES BY ESL POWER SYSTEMS OR APPROVED EQUAL. ESL REFERENCE #3001662



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**EAST PIER DEEP WATER WHARF FOR USM/NOAA**  
**PORT OF GULFPORT MISSISSIPPI**  
**STATE PORT AUTHORITY**  
 30TH AVENUE  
 GULFPORT, MS 39501

SCALE: AS SHOWN  
 PROJECT NO: 0297.23.001  
 DRAWN BY: MAB  
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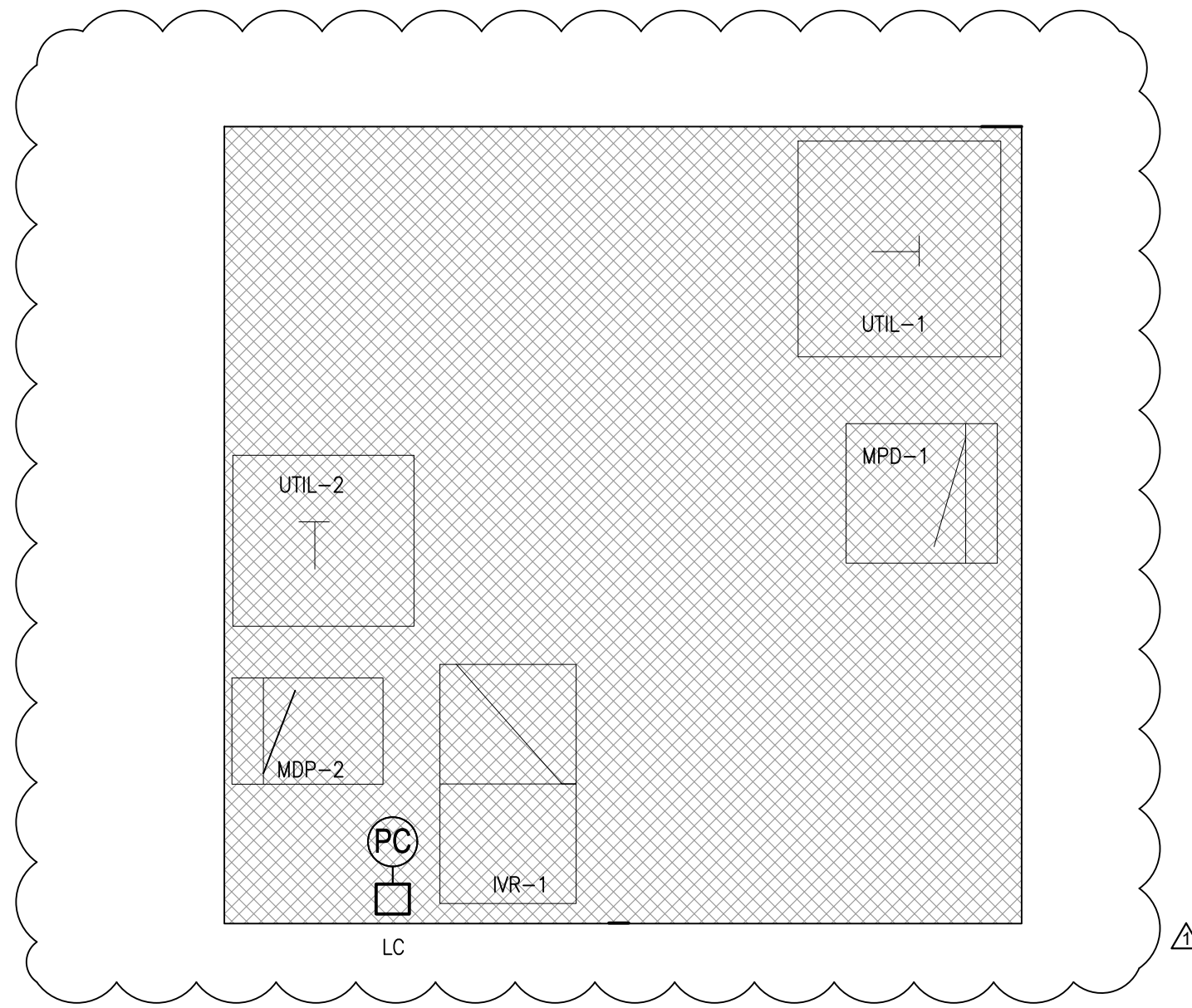
**ELECTRICAL DEEP WATER PIER LIGHTING AND POWER PLAN**

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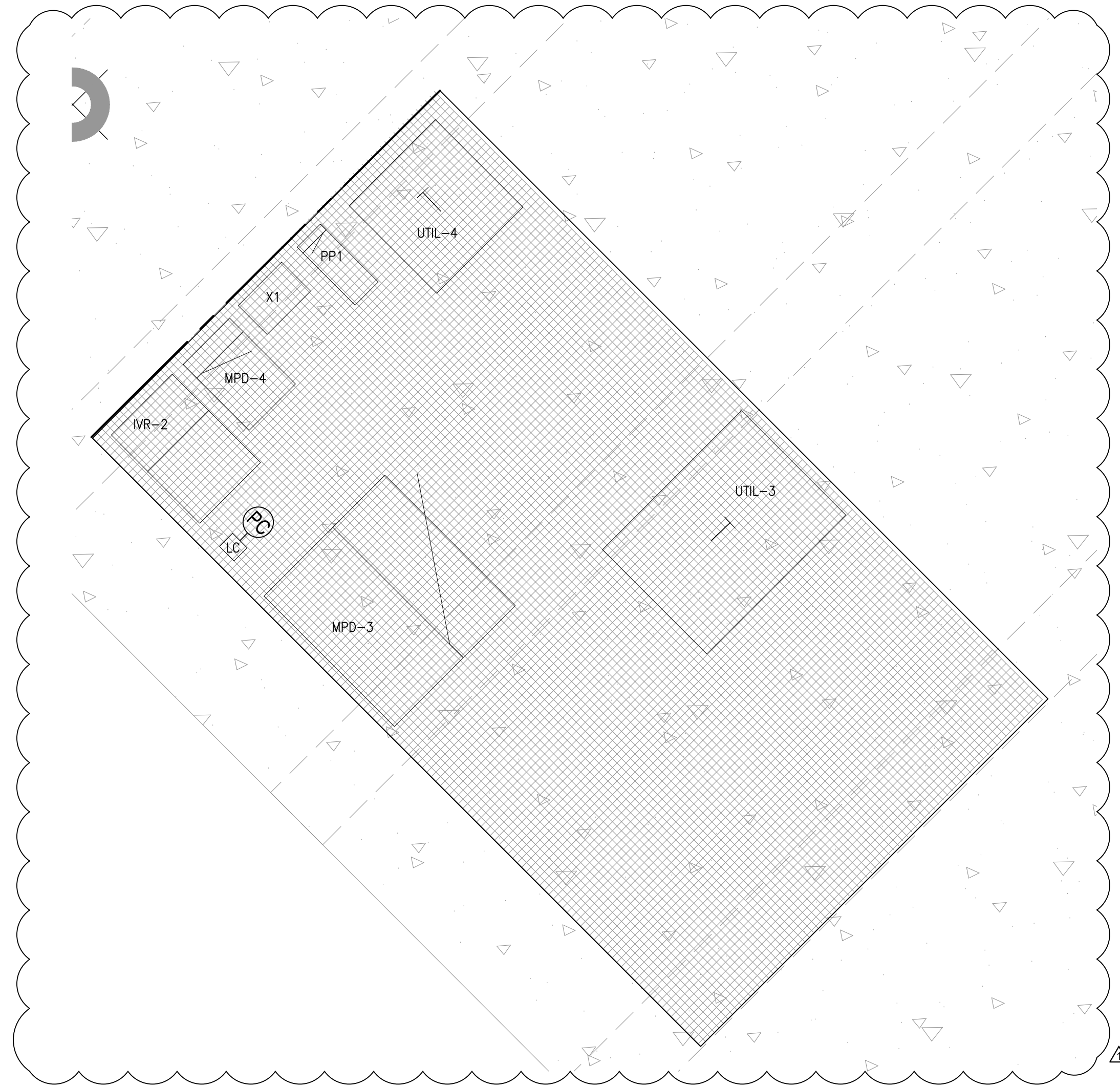
**E111**  
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**1 ENLARGED NORTH ELECTRICAL PLATFORM PLAN**  
 SCALE: 1/4" = 1'0"

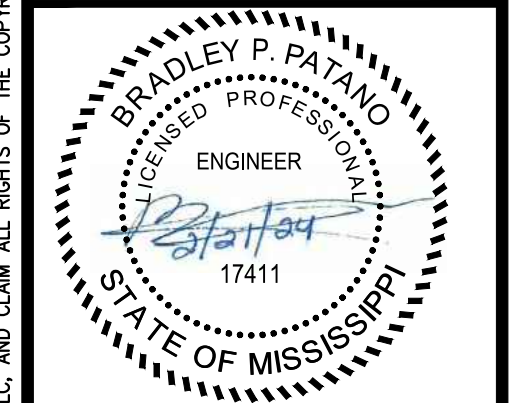


**2 ENLARGED SOUTH ELECTRICAL PLATFORM PLAN**  
 SCALE: 3/16" = 1'0"

- DRAWING E201 NOTES**
- CONTRACTOR SHALL VERIFY ALL NATIONAL ELECTRICAL CODE CLEARANCE REQUIREMENTS.
  - CONTRACTOR SHALL PROVIDE AND INSTALL ARC-FAULT STICKERS FOR ALL SWITCHBOARDS, PANELBOARDS, AND TRANSFORMERS. CONTRACTOR SHALL PROVIDE ALL NECESSARY LOAD STUDIES PER SPECIFICATION. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR ALL NEEDED INFORMATION IN ORDER TO COMPLETE THE LOAD STUDY.

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**ENLARGED ELECTRICAL PLATFORM**

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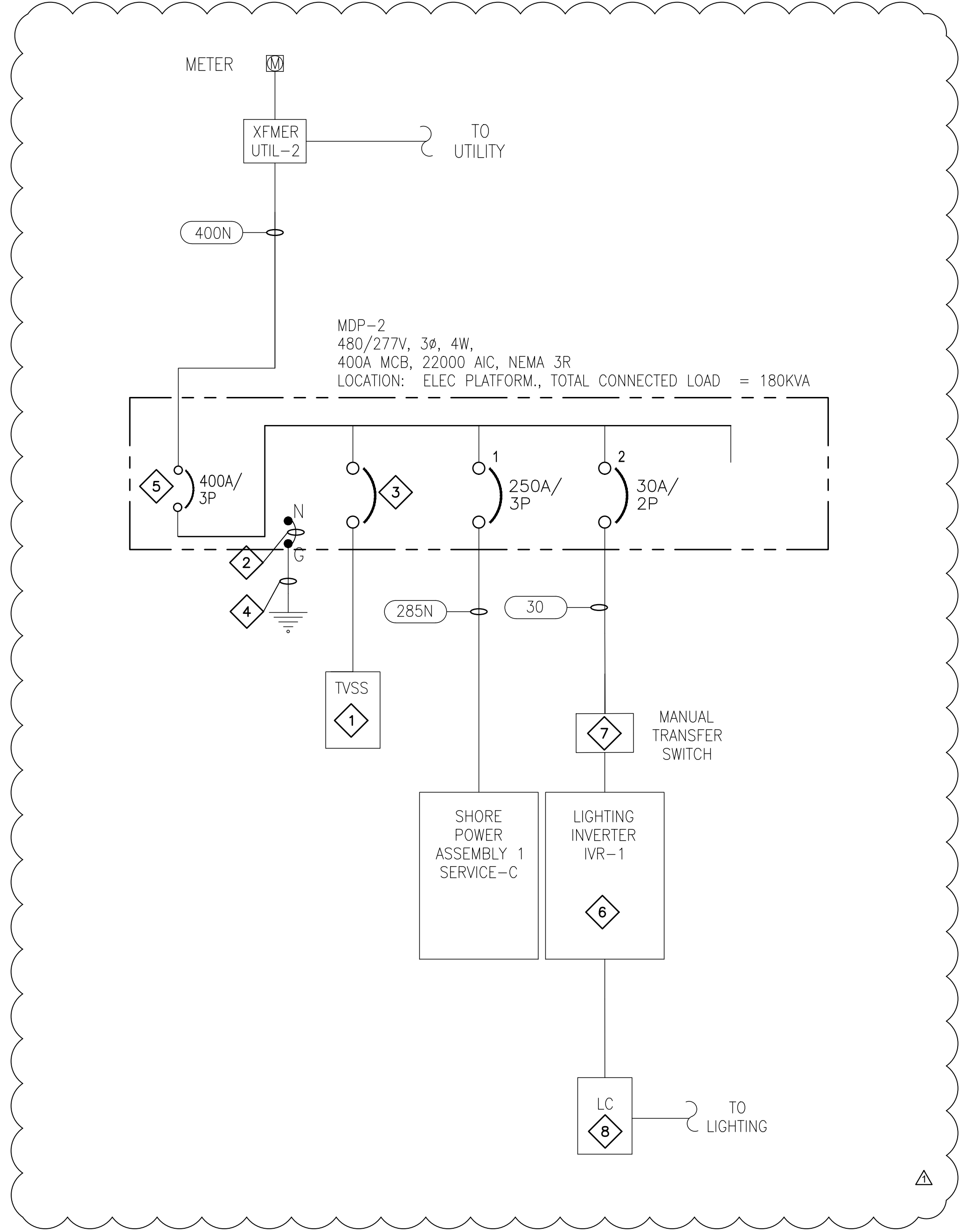
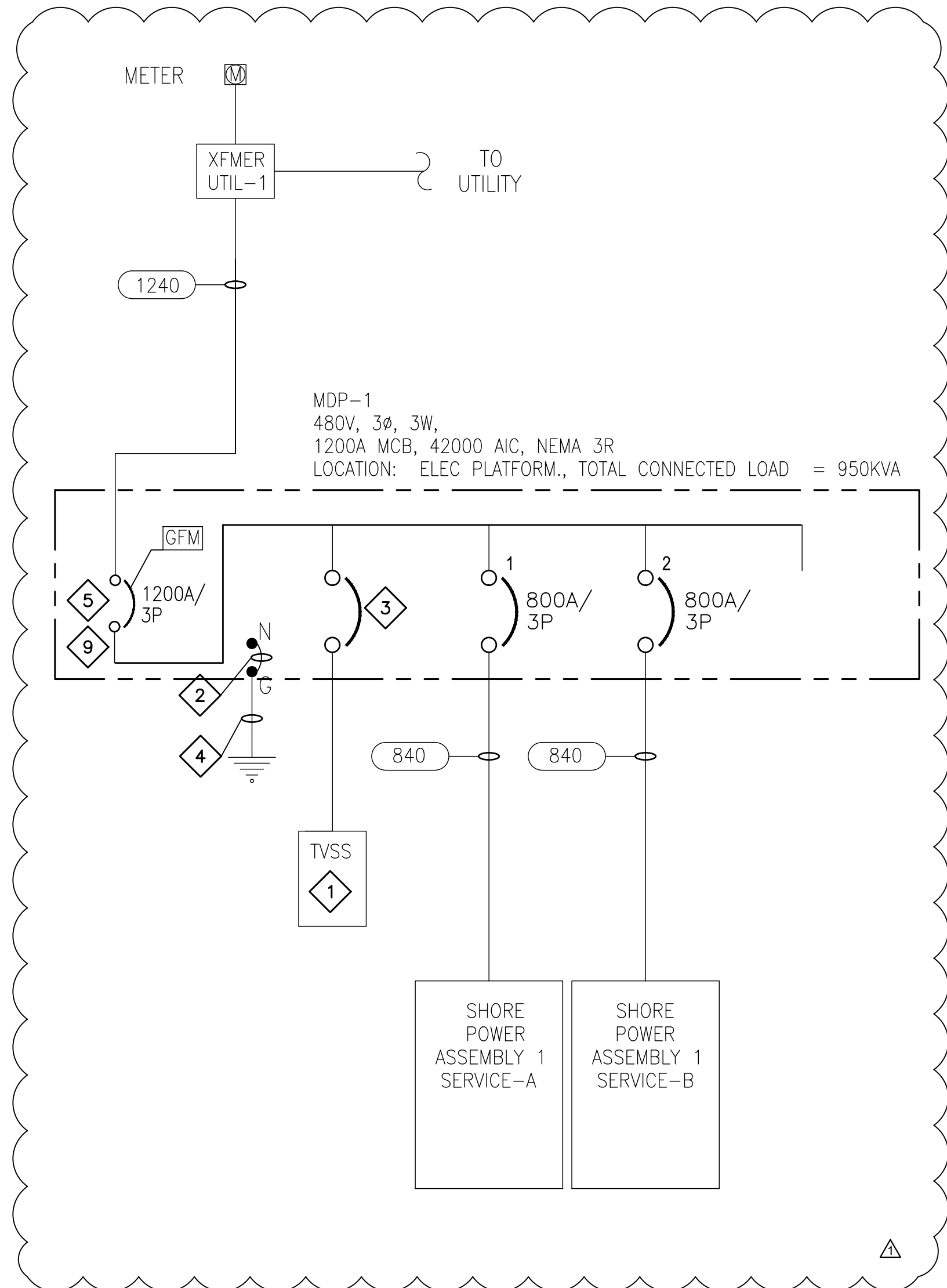
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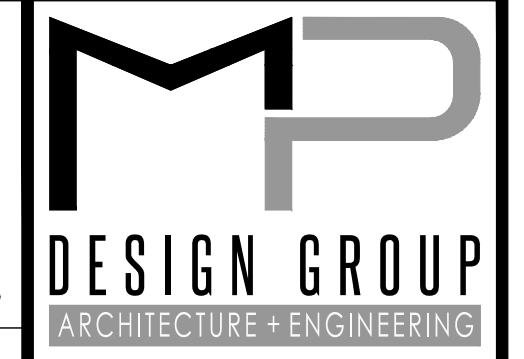


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**DRAWING E601 SPECIFIC NOTES**

- 1 120KA SERVICE ENTRANCE RATED, INTERNALLY MOUNTED TVSS UNIT WITH AUDIBLE ALARM, ENABLE/DISABLE SWITCH AND (2) N.O./N.C. CONTACTS.
- 2 MAIN BONDING JUMPER SHALL BE SIZED PER NATIONAL ELECTRICAL CODE.
- 3 BREAKER SHALL BE SIZED BY PANEL MANUFACTURER.
- 4 4/0 CU GROUND IN 3/4" CONDUIT. CONNECT TO THE GROUNDING ELECTRODE SYSTEM. SEE DETAIL 1 ON E501.
- 5 MAIN CIRCUIT BREAKER SHALL BE 100% RATED
- 6 CONTRACTOR SHALL PROVIDE AND INSTALL EMERGENCY LIGHTING INVERTER. IVR-1 SHALL BE 5.25KW BARRON SONORAN SERIES EMERGENCY LIGHTING INVERTER WITH NEMA 4X CABINET OR APPROVED EQUAL.
- 7 CONTRACTOR SHALL PROVIDE AND INSTALL MANUAL TRANSFER SWITCH WITH PORTABLE GENERATOR CONNECTION PORTS.
- 8 LIGHTING CIRCUITS SHALL BE THROUGH LIGHTING CONTACTOR WITH PHOTOCELL FOR DUSK TO DAWN OPERATION WITH DAYLIGHT HOURS TEST SWITCH.
- 9 PROVIDE WITH ENERGY REDUCTION MAINTENANCE SETTINGS SWITCH



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 GULFPORT, MS 39501

SCALE: NTS  
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**ELECTRICAL ONE-LINE DIAGRAM**  
**USM VESSEL**

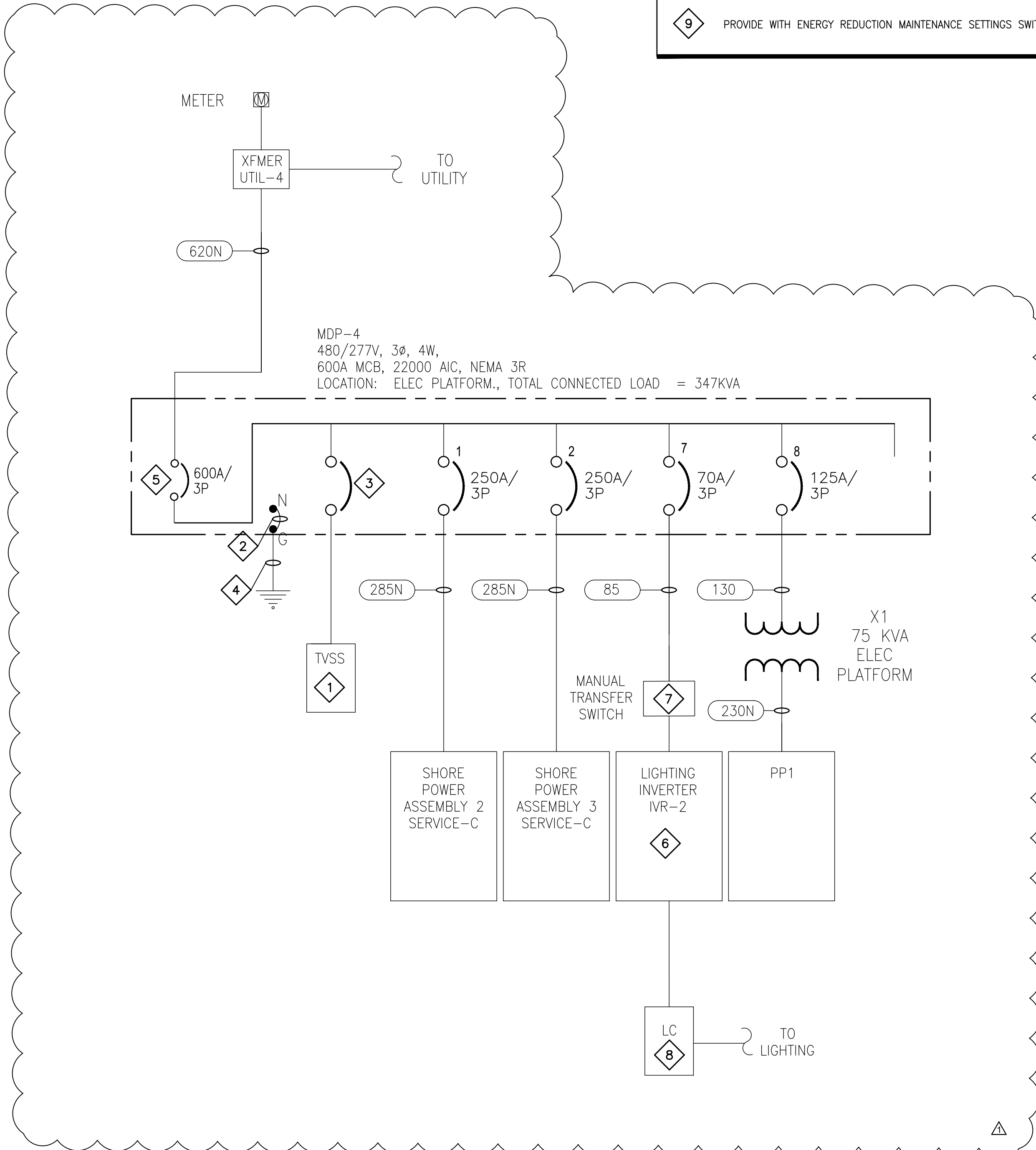
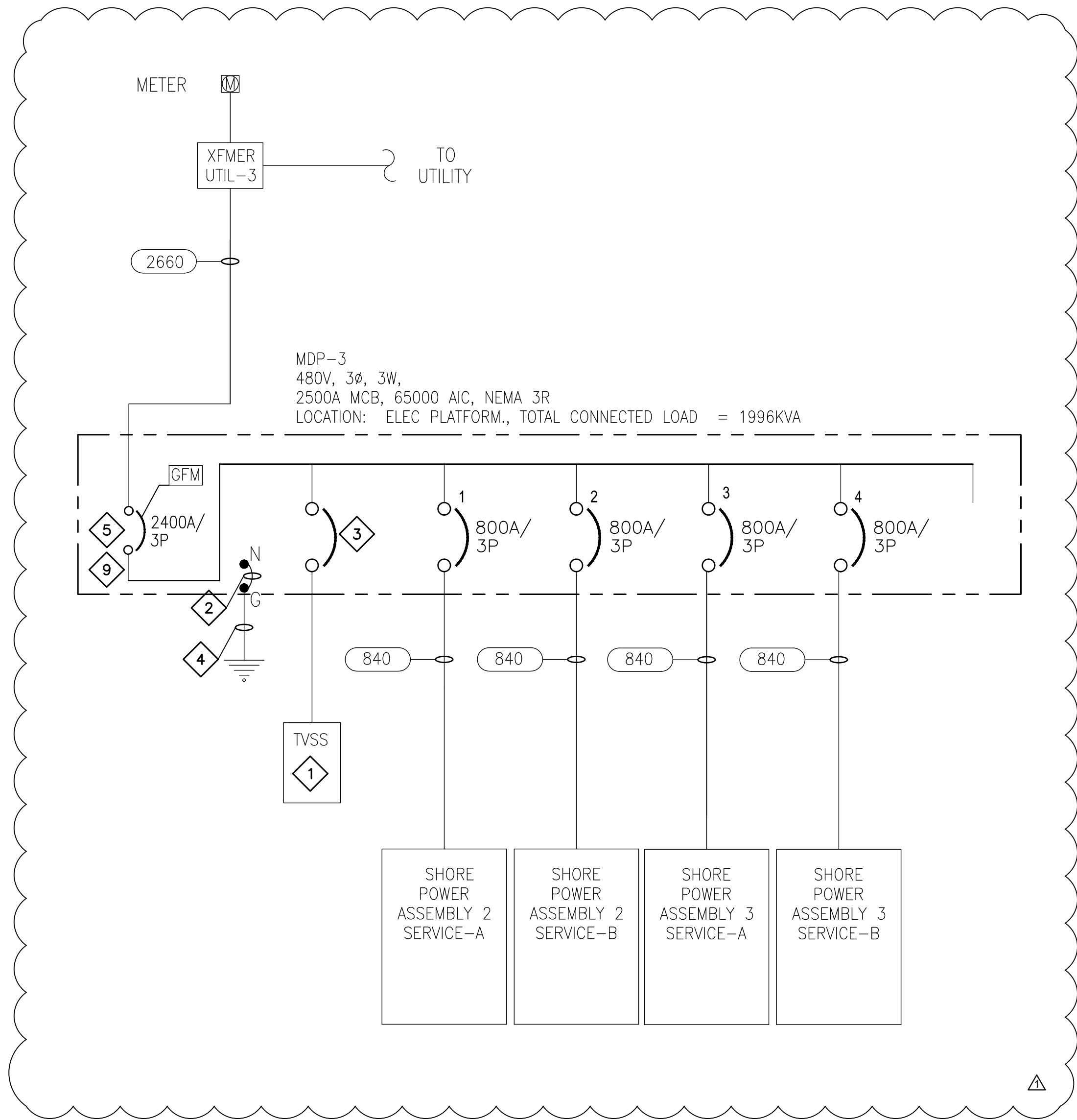
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**E601**

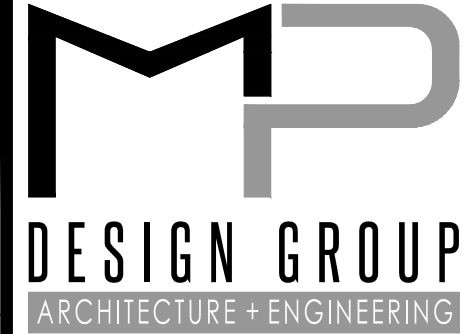
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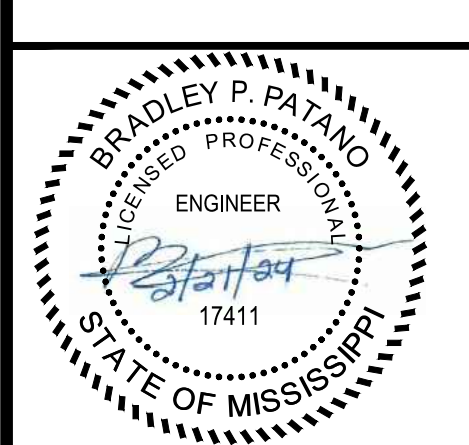
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- ### DRAWING E602 SPECIFIC NOTES
- 1 120KA SERVICE ENTRANCE RATED, INTERNALLY MOUNTED TVSS UNIT WITH AUDIBLE ALARM, ENABLE/DISABLE SWITCH AND (2) N.O./N.C. CONTACTS.
  - 2 MAIN BONDING JUMPER SHALL BE SIZED PER NATIONAL ELECTRICAL CODE.
  - 3 BREAKER SHALL BE SIZED BY PANEL MANUFACTURER.
  - 4 4/0 CU GROUND IN 3/4" CONDUIT. CONNECT TO THE GROUNDING ELECTRODE SYSTEM. SEE DETAIL 1 ON E501.
  - 5 MAIN CIRCUIT BREAKER SHALL BE 100% RATED
  - 6 CONTRACTOR SHALL PROVIDE AND INSTALL EMERGENCY LIGHTING INVERTER. IVR-2 SHALL BE 12.0KW BARRON SONORAN SERIES EMERGENCY LIGHTING INVERTER WITH NEMA 4X CABINET OR APPROVED EQUAL.
  - 7 CONTRACTOR SHALL PROVIDE AND INSTALL MANUAL TRANSFER SWITCH WITH PORTABLE GENERATOR CONNECTION PORTS.
  - 8 LIGHTING CIRCUITS SHALL BE THROUGH LIGHTING CONTACTOR WITH PHOTOCELL FOR DUSK TO DAWN OPERATION WITH DAYLIGHT HOURS TEST SWITCH.
  - 9 PROVIDE WITH ENERGY REDUCTION MAINTENANCE SETTINGS SWITCH



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 STATE PORT AUTHORITY**  
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 PROJECT NO: 0297.23.001  
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**ELECTRICAL ONE-LINE DIAGRAM  
 NOAA VESSELS**

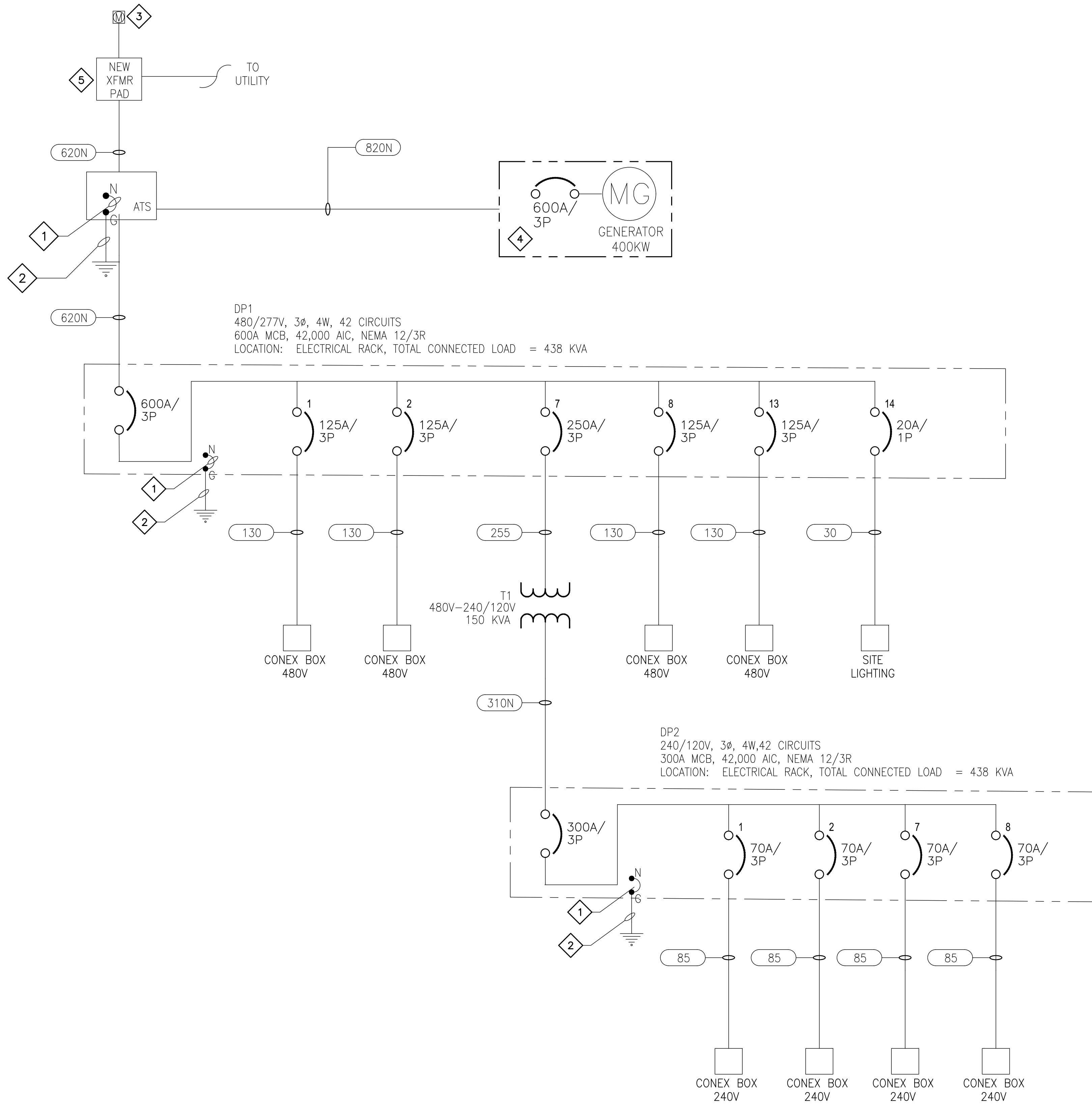
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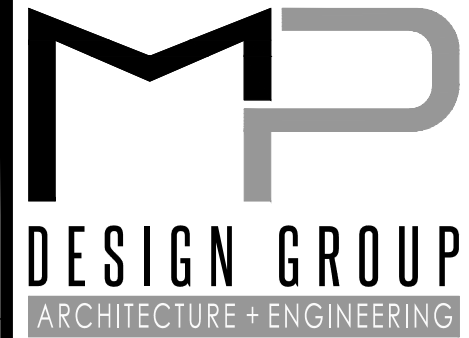
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DRAWING E605 SPECIFIC NOTES

- 1 MAIN BONDING JUMPER SHALL REFERENCE SHEET E501.
- 2 4/0 CU GROUND IN 3/4" CONDUIT. CONNECT TO THE BUILDING GROUNDING ELECTRODE SYSTEM. SEE DETAIL 1 ON E501.
- 3 CONTRACTOR SHALL PROVIDE AND INSTALL METER CAN. LOCAL POWER COMPANY TO PROVIDE AND INSTALL METER.
- 4 CONTRACTOR SHALL PROVIDE AND INSTALL CATERPILLAR OR APPROVED EQUAL 400KW 480/277 VAC 3 PHASE 60HZ DIESEL POWERED GENERATOR WITH 600 AMP SERVICE ENTRANCE RATED ISO AUTOMATIC TRANSFER SWITCH. AUTOMATIC TRANSFER SWITCH SHALL HAVE 42,000 KAIC FAULT CURRENT RATING. REFERENCE SHEET E113 FOR EXACT LOCATION.
- 5 CONTRACTOR SHALL PROVIDE AND INSTALL NEW TRANSFORMER PAD. CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANY FOR EXACT REQUIREMENTS FOR NEW TRANSFORMER PAD. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR EXACT REQUIREMENTS FOR CONDUIT AND FEEDER FOR PRIMARY SIDE OF TRANSFORMER.



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SCALE: NTS  
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ELECTRICAL ONE-LINE DIAGRAM -  
 SEVERE WEATHER -  
 ALTERNATE #2

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