TOLEDO | LUCAS COUNTY
PORT AUTHORITY

ADDENDUM NO. 3
November 1, 2022

RE: Component 5: Liquid Transloading Facility - Mechanical and Electrical Work at Facility One

FROM: Tina Perkins, Construction Administrator
Toledo – Lucas County Port Authority
One Maritime Plaza
Toledo, Ohio 43604-1866
Website: toledoport.org
P: (419)243-8251

TO: Plan Holders

This Addendum forms a part of the Contract Documents and modifies the original Procurement Documents, as noted below. **Acknowledge receipt of this Addendum in the space provided on the Form Proposal.** Failure to do so may subject Bidder to disqualification.

BID DOCUMENT CLARIFICATION

1. The Bid Opening remains scheduled for Tuesday, November 8, 2022, at 1:00 pm., via conference call. (SEE BELOW)

   TIME AND PLACE FOR RECEIPT OF PROPOSALS

   - Sealed bids will be received at the Port Authority's administrative office, 1st floor reception area at One Maritime Plaza, Toledo, OH 43604 until Tuesday, November 8, 2022, at 1:00 pm. Bids will be read aloud via conference call and the standard public bid opening procedures will be followed.

   CONFERENCE CALL LINE

   - The conference call line number for those that wish to hear the bids be publicly opened and read aloud is:
     Conference Call No.: (866) 252-0050
     Participant Code No.: 5156208#

2. Drawing MT-101-3005 (SEE ATTACHED)
   - Partial Site Plan: Foam House Area
3. Project Scope – Mechanical & Electrical Work Package Revision 2 – (SEE ATTACHED)
   - Scope of Work Electrical - Exclusions from Scope
     - Item 3 removed

TOLEDO | LUCAS COUNTY
PORT AUTHORITY

4. Form of Proposal – Revised – (SEE ATTACHED)
    - Alternate Bid 1 – GIS - ADDED
        - Item A1-0001 – Provide GIS Information

PREBID QUESTIONS AND ANSWERS:

1. **Question:** Please clarify the scope of work between drawings for the Foam House on JDRM Drawing ED2 and MT-101-3005. Underground layout with J-boxes is different between the two drawings. Does the scope stop at the J-boxes?

   Answer: Please utilize MT-101-3005 updated 10/24/22 for clarification of the underground conduit path from the cable tray to the Foam Building and disregard the routing on JDRM drawing E-2. There will be no J-boxes near the cable tray.

   For specification of the J-boxes and installation from the boxes into the Foam Building, utilize JDRM E-2.

   Please note that the power conduit should be a 3" (P-126) and the Communications Conduit should be 2" (D-302) and should be sized similarly from the J-boxes to the Foam Building.

2. **Question:** Is there a drawing that shows conduit number D-303 Comm past the rail spur?

   Answer: There is currently no drawing continuing the path of D-303 as info was not available during bid package preparation. The contractor should assume that they will bore under the existing railroad and penetrate the office building along the southwest-facing wall and run the fiber into the building. Assume for bid purposes 75 ft. of cable and conduit fro the building penetration to the communications bug in the building.

3. **Question:** Mechanical. It is the mechanical contractor's responsibility to install the 16" casing pipe for the casing pipe for the fire water system. Who is responsible for installing the fire water piping within the casing?

   Answer: The mechanical contractor will install the casing, and the fire protection contractor will install his piping within it. Simarly, the mechanical contractor will install the casing for the electrical, and the electrical contractor will install the conduits.

4. **Question:** Mechanical - It is the mechanical contractor's responsibility to lift and set the EDC building onto the foundation. Can a cut sheet along with weights be provided to properly size the needed crane and equipment?

   Answer: The EDC building is expected to weigh approximately 40,000 pounds. Additional detail will be available at a later time.

A One Maritime Plaza | Toledo, OH 43604-1866
T 419 243 8251 F 419 243 1835
W toledoportauthority.org

TOLEDO | LUCAS COUNTY
PORT AUTHORITY

5. **Question:** Is the mechanical contractor responsible to provide excavation for the install of their piping? Or is all excavation of piping in the civil excavation package?

   Answer: Mechanical contractor will excavate for their own piping.

6. **Question:** Mechanical and Electrical - Is startup and commissioning the responsibility of the contractors. If it is, do you have a designated amount of labor time that you want allotted?

   Answer: Contractors are responsible for function test of components to the extent possible after installation, including point-to-point testing of wire and cable. Start-up and commissioning of the completed system will be performed on a time and material basis.

7. **Question:** Mechanical - Is Cathodic Protection for piping part of the SOW. If it is the responsibility of the Mechanical contractor, please provide drawings, plan and information associated for this scope?

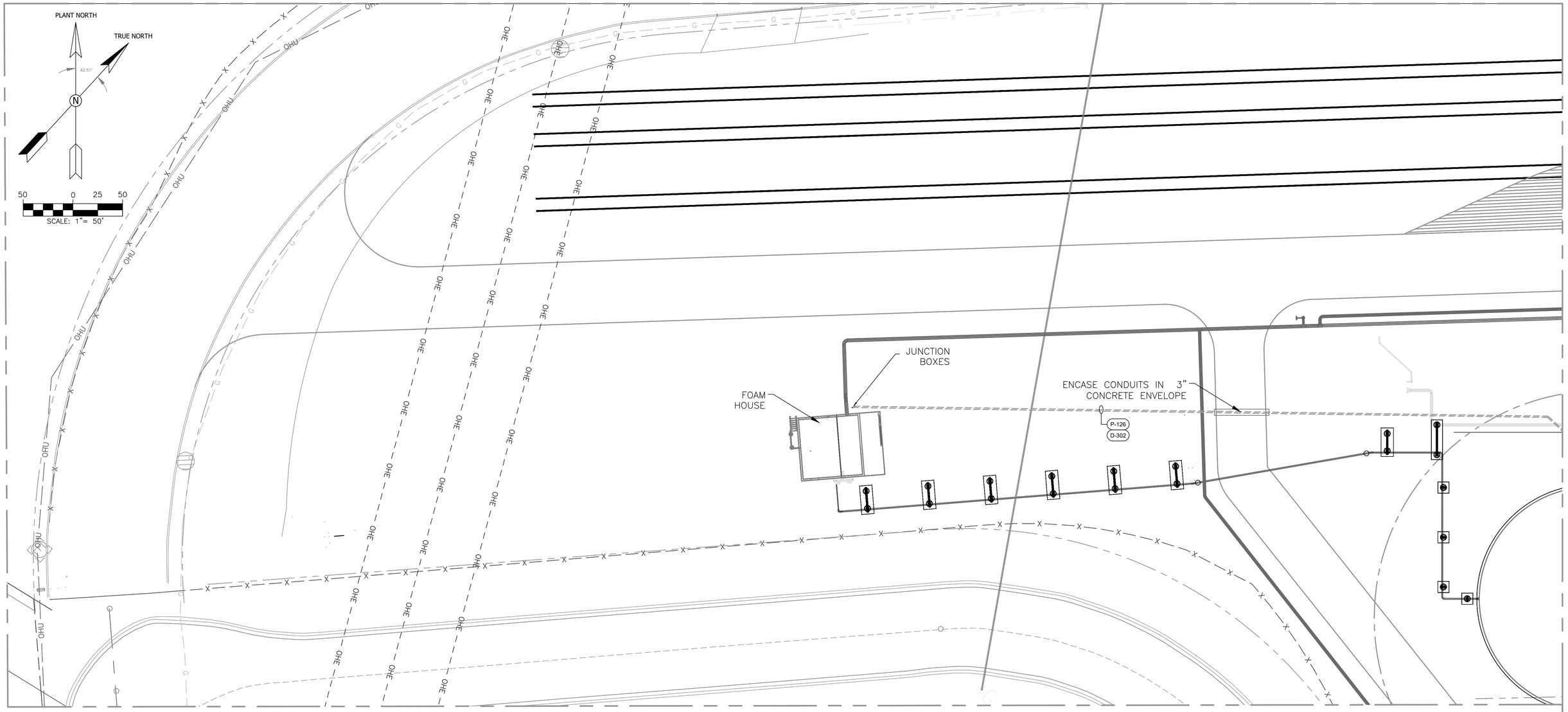
   Answer: This is not in the mechanical contractor's scope.

8. **Question:** Electrical - Based on specifications, the Electrical contractor is responsible for testing wiring. Does this include the owner provided EDC building and equipment? Is there a drawing or electrical BOM for the equipment being supplied within the EDC building?

   Answer: When we get a final quote for the EDC it will include a BOM and the gear and panel info. Contractors will megger the 480V MCC buss/cable buss, check connection tightness torque per manufacturer specs and perform visual inspection for damage. For the 240V/120V transformer, UPS system, panels, etc. perform continuity testing and visual and tug test to make sure connections are still good. Also verify ground continuity once they are connected to the ground system. Verify integrity of all the field wiring as well megger the 480V cables and continuity test the controls and 240V and lower cables.

END OF ADDENDUM NO. 3

A One Maritime Plaza | Toledo, OH 43604-1866
T 419 243 8251 F 419 243 1835
W toledoportauthority.org



CONTINUED ON MT-101-3004

NO.	REVISIONS	BY	DATE
B1	UPDATED FOR BID NOT FOR CONSTRUCTION	GMT	9/16/2022
B	ISSUED FOR BID NOT FOR CONSTRUCTION	GMT	9/16/2022
A1	ISSUED FOR REVIEW NOT FOR CONSTRUCTION	GMT	11/22/2021

NOTES

1. PLACE TAPE AND TRACE WIRE 12" ABOVE ALL UNDERGROUND CONDUITS.
2. ALL UNDERGROUND CONDUITS MUST BE AT LEAST 12" AWAY FROM UNDERGROUND PIPE.

REFERENCE DRAWINGS

MT-101-3900	CONDUIT SCHEDULE (POWER)
MT-101-3905	CONDUIT SCHEDULE (120VAC)
MT-101-3910	CONDUIT SCHEDULE (24VDC)

UPDATED FOR BID 10/24/2022

Midwest TERMINALS

RIDGE & ASSOCIATES, INC.
CONSULTING ENGINEERS
P.O. BOX 1091
FINDLAY, OHIO 45839

© 2020, RIDGE & ASSOCIATES, INC.
ALL RIGHTS RESERVED. THIS DRAWING CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION.

ENGINEER'S STAMP

MIDWEST TERMINALS FACILITY 1 ELECTRICAL

DATE 10/24/2022	ADDRESS 3518 ST. LAWRENCE DRIVE	TOWNSHIP OREGON	
DR'N GMT / CKD KEM	TOLEDO, OHIO 43605	COUNTY LUCAS	
APVD K. MILLER		SCALE 1"=20'	
TITLE **PARTIAL SITE PLAN: FOAM HOUSE AREA**		MT-101-3005	

FILE: O:\FILE SERVER\MIDWEST TERMINALS\TOLEDO\TOLEDO PLANT 3D PROJECT\ORTHOS\DWGS\02898\ELECTRICAL\MT-101-3005 - FOAM HOUSE.DWG - LAYOUT1 - PLOT DATE: 10/24/2022 4:33 PM BY: GENE TEGENKAMP - LAST SAVED DATE: 10/24/2022 4:28 PM

REVISION 2

Project Scope

Facility 1 Transloading Project

Port of Toledo, OH

Mechanical & Electrical Work Package

Component 5

1. Scope of Work – Mechanical

Note: Some scope features are depicted in multiple drawing sets. Contractor is advised to make a careful comparison to avoid duplication.

1. Receipt piping
    a. Install 12" receipt piping system from pipe rack to 12" receipt nozzle on tank 5100
2. Barge loading piping
    a. Install (3) loading pumps and motors on pad provided adjacent to tank 5100. Contractor shall be responsible for laser alignment of these pumps and motors by a qualified millwright.
    b. Install piping from 20" suction nozzle on tank 5100 to adjacent loading pumps, including related components and instrumentation.
    c. Install piping from pump discharge nozzles to 16" header, including related components and instrumentation.
    d. Install piping from 16" header to a demarcation point on the north side of St. Lawrence Drive. Here it will connect with the south end of an underground line to the marine dock that was installed in a previous phase. The connection point will be below grade and may be capped. Note that the barge loading line becomes 12" after the tee for the rail loading piping. This line will be cased under the new rail sidings. See #4 below.
    e. Install barge loading meter, valves, strainer and related piping components and instrumentation in the designated area north of the new rail sidings.
3. At the barge dock:
    a. From the north ending point of the underground barge line mentioned above, extend the 12" barge loading line to the designated location above the containment pad, including valves, instrumentation, and barge loading hose (pad by others). The north ending point has been rolled above grade and capped.
    b. Install tank 9200, Dock Sump Tank, and drain piping from barge loading line.
    c. Install nitrogen cabinet and small-bore piping to emergency shut-off valve (cabinet foundation by others).
4. Install (5) steel casings under the new rail sidings before their completion
    a. barge loading line
    b. (2) casings are for future product and future vapor control. Contractor shall install piping within these casings and cap both ends for future use. All exposed piping shall be coated with Fusion-Bonded Epoxy per Item 22 under Contractor Responsibilities.
    c. electrical
    d. fire water (see item 7 below)
5. Install rail/truck loading piping
    a. From tee off of 16" product discharge line to (6) rail loading positions
    b. Install metering skid at each of the (6) rail loading positions
    c. Install pipe jumper for truck loading at positions 1 and 3 (bays 8100 and 8500)
6. Vapor piping
    a. Install vapor collection piping from each of the (6) rail loading positions and (2) truck loading positions. This piping terminates at an atmospheric vent on the pipe bridge.

7. DELETED SECTION ON FIRE PROTECTION – SEE COMP. 4 & 6: CIVIL, STRUCTURAL AND FIRE SUPPRESSION WORK PACKAGE.
8. Thrust blocks
    a. Where thrust blocks are shown on underground process piping, these are Contractor's responsibility
9. EDC Building
    a. In cooperation with the Electrical Contractor, lift EDC building onto foundation, shim to level and secure.
10. Instrumentation
    a. Contractor shall install radar level gauge and top-mounted temperature element on flanged nozzles on the roof of storage tank 5100.
    b. Contractor shall install high-level alarm on oil/water separator.
    c. These instruments shall be provided by others.
11. Paint
    a. It shall be Contractor's responsibility to engage a coatings contractor with sufficient expertise to apply one of the coating systems specified in strict conformance with manufacturer's specifications, including proper atmospheric conditions, surface preparation, application procedures, and quality assurance/quality control.
    b. Atmospheric conditions shall be monitored throughout the workday and the results documented on Contractor's log.
    c. The top coat shall be white (paint code Federal Standard S 17925), except for foam system piping which shall be red (Federal Standard 11350), and vapor piping which shall be orange (Sherwin Williams Safety Orange SW4083).
    d. The following coating options are available:

Manufacturer		Prime Coat	Intermediate Coat	Finish Coat
Sherwin Williams		Macropoxy 646: 3-5 mils DFT	Macropoxy 646: 3-5 mils DFT	Macropoxy 646: 3-5 mils DFT
Carboline	Opt A	Carboguard 60 Epoxy: 4-6 mils DFT	Carboguard 60 Epoxy: 4-6 mils DFT	Carboguard 60 Tank White Epoxy: 4-6 mils DFT
	Opt B	Carbomastic 15: 5-7 mils DFT	optional; same as above	Carboguard 60 Tank White Epoxy: 4-6 mils DFT
PPG	Opt A	Amerlock 2/400/600: 4-5 mils	Amerlock 2/400/600: 4-5 mils	Pitthane Ultra: 2-3 mils
	Opt B	Amerlock 2/400/600: 4-5 mils	not required	PSX 700: 3-7 mils
International	Opt A	Interseal 670HS Epoxy: 3-5 mils DFT	Interseal 670HS Epoxy: 3-5 mils DFT	Interfine 878: 2-3 mils DFT
	Opt B	Interseal 670HS Epoxy: 3-5 mils DFT	Interseal 670HS Epoxy: 3-5 mils DFT	Interthane 990V: 2-3 mils DFT

2. Scope of Work – Electrical

Note: Some scope features are depicted in multiple drawing sets. Contractor is advised to make a careful comparison to avoid duplication.

General Notes

A. Contractor shall install all power and electrical equipment, grounding, conduit and cable per the attached drawing set and all applicable codes and standards. Contractor shall provide all conduit and cable and any fitting required for supporting the conduits and seal offs. Any alternative materials shall be approved by Midwest's Project Manager or designated representative.

B. All materials shall be as noted in drawings or equivalent approved by Midwest's Project Manager or designated representative.
C. All conduits shall be rigid galvanized steel unless otherwise specified and be placed at depth at least 24" unless code or drawings specifies greater depth, and shall have warning tape laid within trench prior to backfill. All conduits shall have brass tags installed with their conduit ID number at each end per conduit and cable schedule.
D. Conduit and cables from the barge metering area to the dock and from the end of the cable tray to the Foam Building shall be at a minimum depth of four feet and be laid in the same trenches as piping when available and have warning tape installed over them during backfill.
E. All conduits shall be a minimum of 12" from any utility or process piping, and greater if required by code.
F. Contractor is required to terminate all cables within cabinets and provide terminations kits as required for any power and communications cables including fiber.
G. Seal offs shall be required at field devices and at on all conduits entering/exiting classified areas per code. Vertical seal offs shall include drains. Seal offs shall be painted red once they have been filled.
H. All cables shall have continuity verified and labeled at each end with cable ID per cable schedule.
I. Contractor shall verify all ground connections and verify ground continuity and resistance.
J. All cable tray and required fittings shall be provided and installed by the electrical Contractor.
K. All grounding materials and installation shall be provided by electrical Contractor.
L. Process instrumentation and tubing shall be completed by others, the electrical Contractor shall be responsible for all conduit and cable installation at devices.

Scope

1. Incoming power
   a. Install all grounding, 480V conduit and cable for and from 750KVA transformer to new power metering rack. Including conduits going through the foundation (by others) of new transformer. Electrical Contractor shall coordinate to have conduits installed before the pad is poured (by others). Power company shall place the new transformer. PVC conduits from First Energy pull box shall also need to be finished within the transformer primary cabinet. Per provided drawings and conduit and cable schedules.
   b. Power meter rack shall be installed and assembled by others. Electrical Contractor shall mount owner-furnished CT cabinet, outdoor breaker, and power company-furnished meter base and provide all grounding and conduit and cable. Metering cables, CTs, and meter shall be installed by First Energy.
   c. Install all conduits and cables to 480V Motor Control Center (MCC) in new EDC-1 building.
   d. 480V cables shall be megger tested prior to landing and results provided to Midwest's Project Manager or designated representative.

2. EDC Building and Oil/Water Separator (OWS)

a. EDC-1 shall be lifted into place by the Mechanical Contractor.
b. Electrical Contractor shall install all grounding, conduit, and cable, and verify all pre-installed cabling in EDC is in good order prior to energizing.
c. Electrical Contractor shall be responsible for all building penetrations for conduits and conduit stub outs to the cable tray.
d. Seal-offs shall be required for any conduits coming into the EDC from hazardous areas that do not first enter the cable tray; otherwise, seal-offs shall be required at the cable tray.
e. Electrical Contractor shall install cable tray under the EDC Building per drawings.
f. Electrical Contractor shall megger the 480V MCC to ensure no fault issues and perform general tug tests, ground verification and continuity testing on all other pre-installed cables in the EDC.
g. Electrical Contractor shall be responsible for all power, instrumentation, and communications cabling in and out of the EDC-1 building per provided drawings.
h. Electrical Contractor shall be responsible for mounting and wiring power and communications to and from TopTech Terminal Automation System (TAS), PLC Cabinet, Fiber Cabinet, and communications cabinets provided by others in the EDC building.
i. Electrical Contractor shall be responsible for final wiring connections of building HVAC units if they are shipped loose. HVAC shall be mounted by others. Electrical Contractor shall responsible for any building external lighting that may ship loose.
j. Electrical Contractor shall install all conduit and cable and grounding for Oil/Water Separator.

3. Cable Tray
   a. Install 36", 24" and 18" cable tray from EDC-1 to process areas per provided layouts and grounding drawings.
   b. Foundations and structural steel to be installed by others.
   c. Electrical Contractor shall be responsible for all materials required to install the cable tray and dividers along with all materials to grounding and securing cables in place, and for all materials for conduit-to-cable tray transitions.

4. Conduits and Cable
   a. Electrical Contractor shall be responsible for all materials and installation of power and communications conduit and cables per provided site layouts and conduit and cable schedules including conduits noted as spare or future.
   b. Conduit shall be field-routed in the following areas once structural steel and equipment is installed. Main conduit and cable tray runs are shown in drawing package.
      i. Rail and Truck Loading
      ii. Barge Metering Area
      iii. Dock Area
      iv. Foam House Area
      v. Oil/Water Separator (OWS)
   c. Electrical Contractor shall be responsible for installing all conduits through a designated casing under the new rail spurs. Casing shall be installed by the Mechanical Contractor.
   d. Electrical Contractor is responsible for directional drilling for communications a conduit from Barge Meter area to Midwest office building for fiber communications under existing Midwest rail spur.

5. Communications Cabinets and Fiber Optics
   a. Electrical Contractor shall be responsible for mounting and wiring to and from communications

cabinets (3) at EDC-1, Rail and Truck Unloading Communications Cabinet, and Dock Area communications Cabinet.
   b. Electrical Contractor is responsible for all terminations on fiber and Cat 6 cabling.
   c. Electrical Contractor is responsible for mounting and wiring (3) fiber break-out cabinets located at the end of the 36" cable tray run leading to the foam house, EDC-1, and located near the Barge Meter Area.

6. Foam House
   a. Electrical Contractor is responsible for 480V feeder from EDC-1 to the Foam House per conduit and cable schedule and plot plan drawings.
   b. Electrical Contractor is responsible for fiber communications conduit from the cable tray to the Foam house per drawings.
   c. The electrical scope within the Foam House is part of the Civil/Structural package (Component 4). See Exclusions from scope.

7. Dock Area
   a. Electrical Contractor is responsible for mounting mini power center and communications cabinet per drawings on rack at Dock area provided by others.
   b. Electrical Contractor is responsible for all grounding and conduit and cable to and from the rack and rack lighting installation and grounding of equipment on the dock.
   c. Electrical Contractor shall install conduit and cabling to all dock devices.
   d. Electrical contractor shall field mount and wire (1) TopTech SMP II for Dock controls.
   e. Conduits on the north side of St. Lawrence Drive to will be installed and capped from the north side of St. Lawrence Drive to near the Dock Rack by others. The electrical contractor will excavate and intercept the conduit runs and bring them under St. Lawrence Drive to the Barge Meter area and EDC-1 and complete the conduit run to the Dock area electrical rack and Dock. The cables will all need to be installed by the electrical contractor.

8. Rail and Truck Area
   a. Electrical Contractor shall be responsible for field mounting and wiring (6) TopTech SMP control interface boxes along the top platform of the rail and truck loading area. For locations 8100 and 8500 there shall also be (2) selector switches required for the installation.
   b. Electrical Contractor shall mount and install (6) Scully Ground Hogs (Rail) and (2) Scully Intellitrol Units (Truck) at the Rail and Truck Loading area.
   c. Electrical Contractor shall install all conduit and cable for Rail and Truck Devices.

9. Tank 5100 and Rectifier Rack
   a. Electrical Contractor shall mount tank gauging equipment on stand per drawings; this shall include support and anchoring to the tank foundation.
   b. Electrical Contractor shall install all lighting along the tank per drawings.
   c. Electrical Contractor shall install all conduit and cable for tank devices and gauging.
   d. Electrical Contractor shall install all grounding and conduit and cable for cathodic protection.
   e. Electrical Contractor shall install all equipment and conduit and cable at Rectifier rack per drawing. Rack provided by others.

10. Pump Area
   a. Electrical Contractor shall fabricate and install a stand for pump controls using anchors into the pump foundation. General location is shown on plot plan drawings.

b. Install all power and pump control conduit and cable from EDC-1 to (3) 480V motors per conduit and cable schedules and site layouts.
c. Install grounding for the pump area.

3. Exclusions from scope

1. All concrete shall be installed by others, except for piping thrust blocks, the Pump Control Stand (Dwg. MT-101-3450) and Tank Gauging Stand (Dwg. MT-101-3452).
2. Structural steel for pipe supports, pipe bridge, equipment pads, supports and stands shall be fabricated and installed by others, with the exception of two stands listed above.
~~3. Rail loading platform, stairways and safety cages shall be purchased by Midwest and installed as part of the Civil & Structural package.~~
4. All aspects of the Fire protection system, including:
    a. Foam House and foundation
    b. All related mechanical and piping inside and outside the building
    c. Fire water piping to tank, rail and dock areas
    d. Foam distribution piping on the storage tank
    e. Electrical inside and in vicinity of Foam House

FORM OF PROPOSAL

NOTES 1: The wording of this Proposal shall be retained throughout, without change, alterations or additions. Any change in the wording may cause the Proposal to be rejected as not complying with the law.

NOTES 2: The form of Proposal shall be accompanied by a properly secured Proposal Bond or certified check in a specific amount (STATED IN DOLLARS AND CENTS) not less than ten percent (10%) of the total of the sum of sums bid on all items of the Proposal. Non-compliance with these requirements may cause a Proposal to be rejected.

PROPOSAL

TO: Toledo-Lucas County Port Authority
One Maritime Plaza
Toledo, OH 43604

Submitted by: _____ on _____, 20___.

Having read the Bid documents and having examined the specifications entitled:

Component 5: Liquid Transloading Facility
Mechanical and Electrical Work
Facility One - 3518 St. Lawrence Dr., Toledo, Ohio 43605

prepared by the Toledo-Lucas County Port Authority for the Component 5: Liquid Transloading Facility - Mechanical and Electrical Work, project located at Facility One, 3518 St. Lawrence Dr., Toledo, Ohio 43605 and having also received, read and taken into account Addenda Nos. _____ and likewise having inspected the Project Site and the conditions affecting and governing the removal of said items, the undersigned hereby proposes to furnish all equipment and to perform all labor as specified and described in the said specifications for the said work, for the following sum:

(continued on next page)

REF. NO.	WORK ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
BASE BID COMPONENT 5					
	GENERAL				
001	General Conditions	1	LS		
002	Mobilization/Demobilization	1	LS		
	MECHANICAL				
003	Mechanical, per plan	1	LS		
	ELECTRICAL				
004	Electrical, per plan	1	LS		
	TOTAL BASE BID				

Lump Sum Total for Base Bid in writing:

REF. NO.	WORK ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
ALTERNATE BID 1 - GIS					
	GENERAL				
A1-0001	Provide GIS information for all underground utilities installed.	1	LS		
	TOTAL ALTERNATE BID 1 - GIS:				

Lump Sum Total for Alternate Bid 1 - GIS in writing:

This proposal is made with full knowledge of and in compliance with the Revised Code of the State of Ohio and Rules and Regulations of the Toledo-Lucas County Port Authority.

_____
Bidder

List here full names of every person or Company interested in this bid:

By: _____

_____ Title: _____

_____ Address: _____

_____ _____

_____ Date: _____