



**WATER AND SEWER**  
Engineering Design

**DATE:**  
January 6, 2025

**TO:**  
Plan Holders  
  
Contractors

**FROM:**  
Jenna Richardson  
  
918-596-9637

[jennarichardson@cityoftulsa.org](mailto:jennarichardson@cityoftulsa.org)

## EMAIL TRANSMITTAL

ADDENDUM NO. 1

PROJECT NO. TMUA-W 23-09 TO-01 – SPAVINAW PUMP HOUSE

Number of pages: 22

Please email a signed cover sheet to [apcolley@cityoftulsa.org](mailto:apcolley@cityoftulsa.org)  
as acknowledgement of receipt.

Thank you,

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Company

\_\_\_\_\_  
Date



**WATER AND SEWER**  
Engineering Design

**DATE:**

**January 6, 2025**

**ADDENDUM NO. 1  
TO  
PROJECT NO. TMUA-W 23-09 TO-01 – SPAVINAW PUMP HOUSE**

This Addendum No. 1 consisting of (13) clarifications and (9) items, submitted by BKL, is hereby made a part of the Contract Documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. **This entire Addendum shall be attached to the Index Sheet of the Contract Documents and recorded on the last page of the proposal and submitted with bid. Failure to do so shall result in the bid being deemed non-responsive.**

This Addendum No. 1 consists of the following:

1. Delete the existing Proposal in its entirety and replace with the revised Proposal found at <https://www.cityoftulsa.org/government/departments/engineering-services/construction-bids/>. It is the Bidders responsibility to download the revised Proposal onto their thumb drive.
2. The attached documents list the detail items that have been modified in Addendum No. 1. These documents shall be inclusive and apply to this project

**All other provisions of the Plans and Specifications shall remain in full force and effect.**

**CITY OF TULSA**

Eric Lee  
Director

FOR

  
HAS/JP/CW/JR/ac

1000 x 1000

TUL x USA



**ADDENDUM NO. 01**  
**Spavinaw Pump House**  
**TMUA-W 23-09 TO-01**  
January 8, 2025

**NOTICE TO BIDDERS**

This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement. The date for receipt of bids is unchanged by this Addendum and is at the same time and location. The Bidder should acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

**CHANGES/CLARIFICATIONS TO PROJECT MANUAL**

1. Specification Section 011000 – Summary
  - i. Section 1.5 PURCHASE ORDER WORK (P.O.): Change “Alternate #1” to “Alternate #2.
  - ii. Section 1.7 WORK RESTRICTIONS: add the following subsection F.

*“F. Power Interruptions: Power supply to the building may be interrupted under the following conditions:*

    1. *Power can only be interrupted between October 15, 2025 and March 15, 2026.*
    2. *Power interruptions must be coordinated with owner.*
    3. *Owner must be notified a minimum of Two (2) weeks prior to power stoppage.*
    4. *Power must be restored a minimum of Four (4) weeks prior to project close-out to reestablish communications prior to high demand season.”*

**CHANGES/CLARIFICATIONS TO DRAWINGS**

2. G1-01
  - i. General Notes: Added note 17. E
  - ii. Project Description Notes: Revised note 6. B to remove painting of new valve
  - iii. Add Alternate #2 Pay Item Notes: Revised note to remove painting of new valve.
3. D1-01
  - i. Added beam to be removed at the roof between gridlines 1 and 2.
  - ii. Added patch detail for existing roof beam flange.
  - iii. Added beam to be removed at the roof between gridlines 4 and 5.

4. S1-02
  - i. Detail 1
    - i. Added references to new details 1 and 2 Sheet S2-03A.
  - ii. Detail 2
    - ii. Moved location of crane support beam with new 6" x 1/2" plate to the north one beam to the existing beam approximately 2'-7" south of gridline 3.
5. S2-03A
  - i. Added details 1 and 2 showing plate support for MCC units and transformer.
6. E0-01
  - i. Updated general note 9 to include laminated and O&M circuit directory.
  - ii. Updated project scope notes to reflect changes.
  - iii. Added Power Interruption Note for outage clarification.
7. ED1-01
  - i. Added boxed note about skim and patch concrete walls.
  - ii. Detail 1
    - i. Added information about 8' light fixture to be removed.
    - ii. Removed notes no longer relevant.
    - iii. Added note regarding existing wall mounted fan and conduit.
    - iv. Modified existing note and added new notes regarding removal of 300HP motor feeder.
  - iii. Detail 2
    - i. Removed notes no longer relevant.
    - ii. Added note to remove existing round light fixtures.
    - iii. Added note to retain existing linear light fixture.
8. E1-01
  - i. Added light fixture schedule.
  - ii. Added (4) type LB light fixtures and approximate dimensions to plans.
  - iii. Added note about LB light fixture locations and mounting.
  - iv. Removed note for lighting controls.
9. E2-01
  - i. Added boxed note about bonding floor grating.
  - ii. Detail 1
    - i. Modified note about floor mounted equipment including information for steel plate and bracing.
  - iii. Detail 2
    - i. Added note for new wire & conduit for 300HP pump.
    - ii. Modified note for valve actuators to include wire sizing.

### **ADDITIONAL QUESTIONS/RESPONSE**

- Q1: *Has the paint on the piping and structure been tested and confirmed lead free?*  
A1: Existing paint has not been previously tested for lead; Pump and spool pipe were reconditioned and painted w/ non-lead-based paint before installation.
- Q2: *Please provide detailed information for the Limitorque Actuators – Order Number, Serial Number, Etc.*  
A2: "Limitorque actuators Model #L120-10" Additional needed information to be collected by Contractor.
- Q3: *Please provide detailed information/drawings for the existing butterfly valves and their associated valve operator gearboxes – MFG, Model Number, Serial Number.*  
A3: New butterfly valve will be available for inspection to awarded bidder prior to mobilization after NTP (to be scheduled with Owner). Contractor to collect all required information for installation of all components. No modifications to existing flanges will be required for installation of new butterfly valve- (FIELD VERIFY).
- Q4: *Please provide the details for the isolation boundaries that will be used to support the removal/replacement of the valve identified in Alternate #2.*  
A4: Valve will be isolated from upstream water flow; method will be determined by Owner.
- Q5: *Who will be responsible for draining the pipe prior to removal/replacement of the valve?*  
A5: Upstream water flow will be cut off by owner and majority of residual water will drain by gravity. Contractor will be responsible for removing/cleaning any remaining water from basement area. Work area to be maintained in a dry, safe condition.
- Q6: *Are there any restrictions that will prevent work being performed outside the 210-day window that will not impact the operation of the pumphouse?*  
A6: Limited investigative work prior to start of mobilization will be available but must be scheduled and approved by Owner. Owner access to equipment, being able to perform maintenance, and maintaining a clean environment is vital. NTP/WO will not be issued until we are closer to the available start date.
- Q7: *Can water (non-potable) be removed from the existing taps on the piping to support construction activities?*  
A7: There is non-potable water from a low pressure header that will be available until the upstream flow is cut off.
- Q8: *On drawing S1-02 there are three (3) existing beams that are not marked for demolition/removal. It appears these will interfere with the movement of the new crane. Please confirm the status of these beams and provide additional guidance.*  
A8: This has been addressed in Addendum 1.

- Q9: *Please provide the original drawings that detail the exterior wall reinforcement and other wall design details.*
- A9: Sheet 6 of 10 of the original drawings for this aspect of the pump house are attached. These are for reference only and not to be relied upon for design. Field verify as necessary.
- Q10: *Please provide any soil reports or bore logs that apply to the pumphouse area.*
- A10: Geotechnical Engineering Report by Aimright, Project No. 13320723 was provided.
- Q11: *During demolition/erection can the air release valves be removed to protect them?*
- A11: Air release valves are not to be removed and must be protected from damage.
- Q12: *Where do the sumps in the basement drain? Can these be used to remove wash down water?*
- A12: The basement sump drains to Spavinaw Creek. Sumps can be utilized to remove wash down water, but care and filtration must be utilized to ensure contaminants are not allowed to enter the watershed. Owner must approve care and filtration system prior to use.
- Q13: Can you please clarify the General Conditions Specification Division III Part 303.2.2 "The first payment of 50% of the lump sum Contract price will be included in the pay estimate which reflects 50% completion of work" "An additional 15% of the price bid for mobilization/demobilization may be included in the pay estimate which reflects 50% completion of the work."
- So, a contractor is not getting paid for any mobilization until 50% of the work is completed and we will get paid 65% of the price?
- Also, this is page 4 of 54 and the only page from Division III. Where are the rest of the pages?
- A13: The cover sheet states that all COT specifications and standards apply but we listed this one specifically to bring it to contractor's attention. The remainder of COT specifications are on the City of Tulsa website. The mobilization will be paid as the specification states.

#### **ATTACHMENTS**

Revised Proposal

Revised sheets G1-01, D1-01, S1-02, S2-03A, E0-01, ED1-01, E1-01, E2-01

Specification section 011000-SUMMARY revised pages 3 and 4.

Specification section 099113-PAINTING revised page 2

As-Built Plan Sheet 6 of 10.

**END**

- D. Geotechnical Report prepared by: Aimright . 2120 S. 130<sup>th</sup> E. Ave. Tulsa, OK 74134
1. Aimright Project Number: 13320723
  2. Date: August 10, 2023
  3. Phone: 918.392.8041

- E. If Contractor believes that any subsurface or physical condition that is uncovered differs materially from that shown or indicated in the Contract Documents or from conditions ordinarily encountered, then Contractor shall promptly notify the City and Architect/Engineer in writing about such condition. Contractor shall not further disturb such condition until receipt of written direction to proceed.

**1.5 PURCHASE ORDER WORK (P.O.) ~~Alternate #1.~~ Alternate #2**

- A. General: City has negotiated Purchase Contracts (P.O.'s) with suppliers of material, equipment and installation services, to be incorporated into the Work. Contractor's responsibilities for oversight, coordination and preparation for P.O. items to be incorporated into the Work are the same as if Contractor had negotiated purchase contracts himself.

B. Purchase Contracts Information:

1. 48 Inch Butterfly Discharge Valve: P.O. #251792
  - a. Purchase Contract Firm: Core & Main LP

Contact: Owner.

- b. Purchase Contract Scope: All equipment necessary for replacement 48 inch valve.
- c. A copy of the Core & Main LP quote and P.O. may be obtained from the office of the City of Tulsa Project Manager during the bidding process.

- C. P.O. work will be conducted simultaneously with work under the Contract.

- D. Cooperate fully with City's P.O. Vendors so work on those purchase orders may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts.

- E. Perform work specifically identified as work by others or work excluded from the P.O. vendor quotes and as specified in the Contract Documents.

**1.6 ACCESS TO SITE**

- A. General: Contractor shall have full use of Project site for construction operations during construction period and hours of operations.

1. Driveways, Walkways and Entrances: Keep driveways, access roads and entrances serving premises clear and available to City, City's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
  - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
  - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

## 1.7 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
  - 1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work at the Project Site to Monday through Friday from 6:30 a.m. to 4:30 p.m. Any weekend work to be performed must be approved in writing by owner prior to commencing weekend operations.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
  - 1. Notify Owner not less than one week in advance of proposed utility interruptions.
  - 2. Obtain Owner's written permission before proceeding with utility interruptions.
- D. Security: Contractor to coordinate security requirements with the City of Tulsa Representative.
- E. Employee Identification: City will provide identification tags for Contractor personnel working on Project site. Require personnel to use identification tags at all times.

- F. **Power Interruptions: Power supply to the building may be interrupted under the following conditions:**
  - 1. **Power can only be interrupted between October 15, 2025 and March 15, 2026.**
  - 2. **Power interruptions must be coordinated with owner.**
  - 3. **Owner must be notified a minimum of Two (2) weeks prior to power stoppage.**
  - 4. **Power must be restored a minimum of Four (4) weeks prior to project close-out to reestablish communications prior to high demand season.**

1

## 1.8 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
  - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
  - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
  - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
  - 2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and scheduled on Drawings.



## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

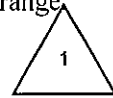
- A. Products: Subject to compliance with requirements, provide product listed in the Exterior Painting Schedule for the paint category indicated.

### 2.2 PAINT, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
- B. Material Compatibility:
  - 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  - 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

- C. Colors AVK Blue or as selected by Architect from manufacturer's full range.

- 1. ~~Ten percent of surface area will be painted with deep tones.~~



## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
  - 1. Concrete: 12 percent.
  - 2. Masonry (Clay and CMUs): 12 percent.
  - 3. Wood: 15 percent.
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been corrected.
  - 1. Application of coating indicates acceptance of surfaces and conditions.

**ELECTRONIC BID PROPOSAL INSTRUCTIONS - EXCEL SPREADSHEET  
SPAVINAW PUMP HOUSE  
PROJECT NO. TMUA-W 23-09 TO-01**

**Please read the following instructions carefully.**

1. After opening this file re-save it as your company's name.
2. Open the BID FORM Sheet from the tabs below.
3. Input the unit price of the appropriate pay item in the Data Input cells.
4. Review all data input and check calculations to ensure accuracy of Bid.
5. Print 1hardcopy of the "PROPOSAL" tab, BID FORM and the "SIGNATURE PAGE" tab.
6. Complete and sign the "Signature Page" document.
7. Submit hardcopy and electronic disk with Contract Documents and Specifications for Bid opening date.

**LEGEND**

- \$ 1.00 Cells Requiring Data Input.
- \$ 1.00 Internal Data Transfer.
- \$ 2.00 Calculated Results.

**AGREEMENT FOR USING ELECTRONIC BID PROPOSAL**

By and Between: BKL, Inc., (ARCHITECT/ENGINEER) and RECIPIENT. The enclosed electronic media is provided pursuant to your request and is for your limited use in connection with your submittal of Bid Proposal for **Project No. TMUA-W 23-09 TO-01**. In no event shall the information be used for any other purpose or be released to third parties without the written consent of the ARCHITECT/ENGINEER. In the event of a discrepancy between the hard copy and this electronic media at delivery or in the future, the hard copy shall govern. ARCHITECT/ENGINEER hereby disclaims any and all liability for the consequences from use of the electronic media and makes no warranty or guarantee of accuracy. RECIPIENT shall assume full responsibility for the uses and consequences of the electronic media. It is agreed that ARCHITECT/ENGINEER has and retains ownership of the electronic media. ARCHITECT/ENGINEER does not warrant or guarantee that the electronic data is compatible with RECIPIENT'S computer hardware or software, and ARCHITECT/ENGINEER'S responsibility for the electronic media is limited to replacement of defective media for a period

**PROPOSAL  
SPAVINAW PUMP HOUSE  
PROJECT NO. TMUA-W 23-09 TO-01**

TO: TULSA METROPOLITAN UTILITY AUTHORITY  
CITY OF TULSA, OKLAHOMA

THE UNDERSIGNED BIDDER, having carefully examined the drawings, specifications, and other Contract Documents of the above project presently on file in the City Clerk, City of Tulsa Oklahoma:

CERTIFIES THAT he has inspected the site of the proposed work and has full knowledge of the extent and character of the work involved, construction difficulties that may be encountered, and materials necessary for construction, class and type of excavation, and all other factors affecting or which may be affected by the specified work; and

CERTIFIES THAT he has not entered into collusion with any other bidder or prospective bidder relative to the project and/or bid: and

HEREBY PROPOSES: to enter into a contract to provide all necessary labor, materials, equipment and tools to completely construct and finish all the work required by the Contract Documents hereto attached and other documents referred to therein: to complete said work within 210 calendar days after the work order is issued; and to accept in full payment therefore the amount set forth below for all work actually performed as computed by the Engineer as set forth in the Contract.

**Basis of Award**

IT SHOULD BE NOTED THAT THE LOWEST RESPONSIBLE BID SHALL BE DETERMINED BY THE TOTAL BASE BID PLUS ADDITIVE ALTERNATES NO. 1 and 2. THE ITEMS IN ADDITIVE ALTERNATES NO. 1 and/or 2 MAY OR MAY NOT BE INCLUDED IN THE CONTRACT AWARD AT THE SOLE DISCRETION OF THE CITY OF TULSA. ANY PROPOSAL SUBMITTED WITH THE ADDITIVE ALTERNATES 1 thru 2 INCOMPLETE SHALL BE CONSIDERED NON-RESPONSIVE.

**Note:** - Item numbers omitted are not a part of the Contract.

**PROPOSAL**  
**Spavinaw Pump House**  
**PROJECT NO: TMUA-W 23-09 TO-1**

BID ITEM	SPEC NO.	DESCRIPTION	UNIT	QTY	DATA INPUT UNIT PRICE	TOTAL EACH ITEM
<b>BASE BID:</b>						
001	COT 303	Mobilization	EA	1		\$ -
002	012100	Owner Allowance	ALLOW	85000	\$1.00	\$ 85,000.00
003	PER NOTES 1,4&6	Building	EA	1		\$ -
004	024119	Selective Demolition	SYS	1		\$ -
005	051200	Structural Steel Framing	LB	13825		\$ -
006	055313	Bar Grating	SF	1268		\$ -
007	412233	Bridge Crane	SYS	1		\$ -
008	PER NOTE 5	Valve Actuators	EA	5		\$ -
009	071900	Water Repellants, power wash and seal building exterior	SF	1983		\$ -
010	PER SPECS	Mechanical, Electrical and Plumbing	SYS	1		\$ -
						\$ -
<b>TOTAL BASE BID</b>						<b>\$ 85,000.00</b>
<b>ADD ALTERNATE #1 - REMOTE CONTROLS FOR VALVE ACTUATORS</b>						
011		New Remote Controls for Valve Actuators	EA	5		\$ -
012	001200	Owner Allowance	ALLOW	5000	\$1.00	\$ 5,000.00
<b>TOTAL ADD ALTERNATE #1</b>						<b>\$ 5,000.00</b>
<b>ADD ALTERNATE #2 - INSTALLATION OF VALVE</b>						
013		Installation of new 48" Butterfly Valve Procured by City of Tulsa	EA	1		\$ -
014	001200	Owner Allowance	ALLOW	10000	\$1.00	\$ 10,000.00
<b>TOTAL ADD ALTERNATE #2</b>						<b>\$ 10,000.00</b>
<b>TOTAL BASE BID plus ALTERNATES 1 thru 2</b>						<b>\$ 100,000.00</b>

<b>BASE BID ( ITEMS 001 thru 003)</b>	<b>\$ 85,000.00</b>
<b>ADD ALT #1 (ITEM 004)</b>	<b>\$ 5,000.00</b>
<b>ADD ALT #2 (ITEM 005)</b>	<b>\$ 10,000.00</b>
<b>TOTAL (BASE BID + ADD ALTERNATES 1 thru 2)</b>	<b>\$ 100,000.00</b>

Enclosed is a (     ) Bidder's Surety Bond, (     ) Certified Check, (     ) Cashier's Check for  
 \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ )  
 Words Figures

which the City of Tulsa may retain or recover as liquidated damages in the event that the undersigned fails to enter into contract for the work covered by this proposal, provided the Contract is awarded to the undersigned within thirty (30) days from the date fixed for opening of bids and the undersigned fails to execute said Contract and furnish the required bonds and other requirements as called for in these Contract Documents within thirty (30) days after award of Contract.

Dated at Tulsa, Oklahoma, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Respectfully submitted,

\_\_\_\_\_  
 (Complete legal name of company)

\_\_\_\_\_  
 (State of Organization)

By:

ATTEST:

Title:

Title: Corporate Secretary

Printed Name:

Printed Name:

(SEAL)

Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

By signing above the bidder acknowledges receipt of the following Addenda (give number and date of each):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



### PAY ITEM SCHEDULE

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION	PAY ITEM NOTE	UNIT	QTY
001	COT 303	MOBILIZATION	2, 3, 4	EA	1
002	012100	OWNER'S ALLOWANCE	4	ALLOW	85000
003	PER NOTE 1, 4	BUILDING	1, 4	EA	1
004	024119	SELECTIVE DEMOLITION	4	SYS	1
005	051200	STRUCTURAL STEEL FRAMING	4	LB	13825
006	055313	BAR GRATING	4	SF	1268
007	412233	BRIDGE CRANE, COMPLETE IN PLACE	4	SYS	1
008	PER NOTE 5	VALVE ACTUATORS	4, 5	EA	5
009	071900	WATER REPELLANTS, POWER WASH AND SEAL BUILDING EXTERIOR	4	SF	1983
010	PER SPEC DIV 26	MECHANICAL, ELECTRICAL, AND PLUMBING	4	SYS	1

### PAY ITEM NOTES

- PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE ALL WORK REQUIRED BY THE CONTRACT BUT NOT SPECIFICALLY IDENTIFIED IN THE PAY ITEM SCHEDULE. THE WORK IS DESCRIBED IN PROJECT DESCRIPTION NOTES, THIS SHEET.
- ITEM INCLUDES ALL MOBILIZATION COSTS FOR THE ENTIRE PROJECT, INCLUDING SITE AND BUILDING.
- ITEM IS IN ACCORDANCE WITH CITY OF TULSA STANDARD SPECIFICATIONS DIVISION III PART 303, MOBILIZATION.
- THE PRICES SHALL BE PAYMENT IN FULL FOR PERFORMING AND COMPLETING THE WORK AND FOR FURNISHING ALL LABOR AND MATERIALS NECESSARY INCLUDING REMOVAL OF EXISTING STRUCTURE, PIPE MATERIALS, SURFACE RESTORATION, ALL TESTING, AND ALL INCIDENTAL COSTS.
- REMOVE AND RETAIN EXISTING VALVE ACTUATORS AND INSTALL DIRECTLY TO VALVE GEAR BOX. COORDINATE FINAL HEIGHT AND ORIENTATION WITH OWNER. CONTRACTOR SHALL FIELD DETERMINE REQUIRED MODIFICATIONS TO GEAR BOX AND VALVE ACTUATOR PRIOR TO START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY LOSS OR DAMAGE ARISING FROM THE NATURE OF THE WORK, OR FROM THE ACTION OF THE ELEMENTS, OR FROM UNFORESEEN DIFFICULTIES WHICH MAY BE ENCOUNTERED DURING THE PROSECUTION OF THE WORK UNTIL THE FINAL ACCEPTANCE BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ALL RISKS OF EVERY DESCRIPTION CONNECTED WITH THE PROSECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXPENSES INCURRED IN CONSEQUENCE OF THE SUSPENSION OR DISCONTINUANCE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY INFRINGEMENT OF PATENT, TRADEMARK, OR COPYRIGHT.

### GENERAL NOTES:

- FOR ITEMS PROVIDED "BY OTHERS" PROVIDE AND INSTALL BLOCKING, MECHANICAL, ELECTRICAL, AND PLUMBING. REFERENCE MEP DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION COORDINATION.
- STRUCTURAL, ARCHITECTURAL, AND MEP SHEETS ARE DRAWN ACCORDING TO A PLAN NORTH. REFER CIVIL DRAWINGS FOR TRUE NORTH.
- REFER CIVIL DRAWINGS FOR ALL ELEVATIONS 100'-0" F.F. = 665.02'
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF TULSA STANDARDS AND THE STANDARD SPECIFICATIONS FOR SPECIAL PROJECT CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES, AND PROTECTIVE EQUIPMENT AND TAKE ANY OTHER NEEDED ACTIONS ON AS THEIR OWN RESPONSIBILITY PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
- ALL PUBLIC FEATURES OF THIS PROJECT RENOVATION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES, AND THE INTERIM FINAL RULES FOR PUBLIC RIGHT-OF-WAY, PUBLISHED IN THE FEDERAL REGISTRY, TUESDAY, SEPTEMBER 3, 2002. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK, WHICH IS NOT PERFORMED WITHIN THE GUIDE LINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- AREAS DISTURBED BY THE CONSTRUCTION OUTSIDE THE LIMITS OF THE CONSTRUCTION SHALL BE RETURNED TO THEIR PREVIOUS CONDITION AT CONTRACTOR'S EXPENSE AS DIRECTED BY ENGINEER. THERE WILL BE NO PARKING OF VEHICLES OR EQUIPMENT, OR STORING OF MATERIALS WITHIN THIS AREA. ORANGE PROTECTIVE FENCING SHALL BE INSTALLED AROUND THE DRIP LINE OF ALL TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION AND STAGING AREA. ALL AREAS DISTURBED WITHIN AND BEYOND THE LIMIT OF CONSTRUCTION LINE SHALL BE RE-VEGETATED.

### GENERAL NOTES (CONT.):

- IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OR SIMILAR OPERATIONS AND BEFORE WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE OWNER'S REPRESENTATIVE. COST OF SPRINKLING TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES INFLICTED TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF DIGGING, TRENCHING, BORING, ETC. DEPTH OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. PRIOR TO DIGGING, THE CONTRACTOR SHALL CALL THE CITY OF TULSA TO VERIFY UTILITIES SHOWN ON DRAWINGS AND FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:  
A. THE "OKIE" NOTIFICATION CENTER 1-800-522-6543,  
B. FACILITIES MAINTENANCE 918-527-0209
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING LOCATION OF ALL UNDERGROUND UTILITIES. CONTRACTOR IS RESPONSIBLE FOR GIVING THE NOTIFICATION CENTER OF THE OKLAHOMA ONE-CALL SYSTEM, INC., NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS OR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS, LEGAL HOLIDAY PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL ENVIRONMENTAL PROTECTION AGENCY (EPA) AND OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ) REQUIREMENTS FOR STORM WATER MANAGEMENT FOR THIS PROJECT. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
- COORDINATE THE CONSTRUCTION STAGING AREA WITH THE OWNER'S REPRESENTATIVE. IF REQUIRED THE AREA SHALL BE STABILIZED WITH AGGREGATE BASE TO A DEPTH OF 6". ALL COSTS TO BE INCLUDED IN LINE ITEM GENERAL REQUIREMENTS/MOBILIZATION, DEMOBILIZATION, AND MISCELLANEOUS. GRAVEL MAY BE LEFT IN PLACE AT COMPLETION OF PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED TO THE EXISTING LIGHTING AND AMENITIES DURING CONSTRUCTION IF CAUSED BY CONSTRUCTION ACTIVITIES PERFORMED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS.
- WHERE IT IS NECESSARY TO CROSS CURBING, PROTECTION AGAINST DAMAGE SHALL BE PROVIDED BY THE CONTRACTOR AND ANY DAMAGE TO THE ROADWAY PAVEMENT, CURBS, SIDEWALKS, VEGETATION, OR DRIVEWAYS CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.
- FOR ITEMS PROVIDED "BY OTHERS" PROVIDE AND INSTALL BLOCKING AND POWER/DATA AS REQUIRED. COORDINATE INSTALLATION.
- CONTRACTOR IS TO CONFIRM ALL DIMENSIONS IN THE FIELD BEFORE ORDERING MATERIAL.
- CONTRACTOR SHALL PROTECT ALL ITEMS, PIPE, VALVES, MOTORS, & EQUIPMENT FROM DAMAGE DURING CONSTRUCTION.  
A. ALL MOTORS TO BE AFFECTED BY CONSTRUCTION SHALL BE FULLY WRAPPED AND PROTECTED FROM DUST INFILTRATION.  
B. ALL LIMITORQUE ACTUATORS TO BE FULLY WRAPPED AND PROTECTED FROM DUST INFILTRATION AND CONSTRUCTION DEBRIS.  
C. ALL EXISTING PIPES & EQUIPMENT IN BASEMENT TO BE PROTECTED FROM CONSTRUCTION DAMAGE.  
D. IF ANY EXISTING EQUIPMENT IS DAMAGED, OWNER MUST BE NOTIFIED. FOR AND OWNER MUST APPROVE REPAIR PLAN AND CLOSE OUT.  
E. TOUCH UP ANY DAMAGED PAINT IN ACCORDANCE WITH SPECIFICATIONS.
- CONTRACTOR TO ALLOW TEMP ACCESS TO BASEMENT FOR STAFF (LADDER).
- ANY EQUIPMENT THAT IS REMOVED AND REPLACED OR PERMANENTLY REMOVED ON THIS CONTRACT MUST BE SUBMITTED TO THE OWNER FOR FIRST RIGHT OF REFUSAL FOR ANY AND ALL PARTS. ALL PARTS OR EQUIPMENT NOT RETAINED BY CITY OF TULSA SHALL BE REMOVED FROM THE PROJECT SITE AND DISCARDED BY THE CONTRACTOR AT CONTRACTORS EXPENSE.

### GENERAL NOTES - DEMOLITION:

- THE DEVICES SHOWN ON THE DEMOLITION PLANS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL QUANTITY AND LOCATIONS. FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE DEMOLITION WITH ALL OTHER DISCIPLINES.

### ADD ALTERNATE #1

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION	PAY ITEM NOTE	UNIT	QTY
011	-	NEW REMOTE CONTROLS FOR VALVE ACTUATORS	7	EA	5
012	012100	OWNER'S ALLOWANCE	4	ALLOW	5000

### ADD ALTERNATE #1 PAY ITEM NOTES

- INSTALLATION OF FIVE NEW REMOTE CONTROLS FOR VALVE ACTUATORS ON FIRST FLOOR LEVEL. WORK SHALL INCLUDE INSTALLING ALL SUPPORTS, POWER AND CONTROLS INFRASTRUCTURE TO ENSURE PROPER OPERATION OF ACTUATORS IN BASEMENT WITH NEW REMOTE OPERATOR.

### ADD ALTERNATE #2

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION	PAY ITEM NOTE	UNIT	QTY
013	-	INSTALLATION OF VALVE PROCURED BY OWNER	8	EA	1
014	012100	OWNER'S ALLOWANCE	4	ALLOW	10000

### ADD ALTERNATE #2 PAY ITEM NOTES

- REMOVE EXISTING 48" VALVE AS SHOWN. RETAIN AND STORE EXISTING LIMITORQUE ACTUATOR. INSTALL NEW 48" BUTTERFLY VALVE IN SAME LOCATION. CONNECT EXISTING LIMITORQUE ACTUATOR. TOUCH UP ANY DAMAGED PAINT. CONTRACTOR TO REMOVE, STORE, AND INSTALL NEW 48" BUTTERFLY VALVE ORDERED BY SEPARATE PURCHASE CONTRACT BY OWNER. CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. EXPECTED DELIVERY BETWEEN APRIL 1ST, 2025 AND OCT 1ST, 2025. REMOVAL & INSTALLATION MUST TAKE PLACE BETWEEN OCT 15, 2025 AND MARCH 15, 2026. COORDINATE ISOLATION WITH OWNER.

### GENERAL NOTES - DEMOLITION (CONT.):

- ALL EXISTING MATERIAL IS REQUIRED TO BE REMOVED IF NECESSARY TO MAKE THE NEW INSTALLATION. THE CONTRACTOR IS TO HAVE ALL NECESSARY DEMOLITION IN THE BID WHETHER SHOWN ON DRAWINGS OR NOT SHOWN.
- REMOVE ALL ABANDONED DEVICES. CAP OFF, PATCH, AND REPAIR, AND PREP SURFACE FOR INSTALLATION OF NEW DEVICES AND NEW FINISHES.
- REMOVE ALL EQUIPMENT AND MEP FIXTURES UNO. TYPICAL ALL AREAS OF WORK. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION. ALL EQUIPMENT TO BE SAFELY STORED AND REINSTALLED IN WORKING CONDITION.
- FURNISH ALL LABOR AND EQUIPMENT FOR THE DEMOLITION, AND MATERIAL REMOVAL, REQUIRED TO COMPLETE THE NEW WORK INDICATED IN THE DOCUMENTS AND SPECIFICATIONS. INCLUDE REMOVAL OF ANY ABANDON DEVICES IN THE SAME AREA OR ASSOCIATED WITH MEP ITEMS. SEND AS MANY MATERIALS AS POSSIBLE TO BE RECYCLED SUCH AS CARPET, METAL PIPING, ETC. VERIFY WITH OWNER ANY MATERIAL OR ITEMS THAT ARE TO BE SALVAGED AND DELIVERED TO THE CITY'S STORAGE BUILDING LOCATED WITHIN THE CITY OF TULSA.
- CONTRACTOR TO PROVIDE A DEMOLITION PLAN TO ENGINEER FOR REVIEW AT START OF PROJECT.

### PROJECT DESCRIPTION NOTES:

CONTRACTOR IS REQUIRED TO SUBMIT A PROJECT CONSTRUCTION SCHEDULE AND SCHEDULE OF VALUES BEFORE BEGINNING WORK. THE WORK SCHEDULE IS TO BE UPDATED AND PROVIDED TO THE OWNER AND ENGINEER MONTHLY. BELOW IS A DESCRIPTION OF WORK AND ANTICIPATED SEQUENCE OF CONSTRUCTION:

PROJECT DESCRIPTION: SPAVINAW PUMP HOUSE MODIFICATIONS.

PROJECT SCOPE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING. PROVIDE ALL ACCESSORIES AND SPECIALTIES SPECIFIED IN THE CONSTRUCTION DOCUMENTS. PROVIDE ALL REQUIRED CONNECTIONS TO SITE UTILITIES. INCLUDE TESTING OF THE INSTALLED PRODUCTS AS REQUIRED BY INDIVIDUAL SPECIFICATION SECTIONS. INCLUDE ALL MATERIALS AND LABOR.

- REMOVING THE EXISTING INTERIOR CONCRETE FLOOR AND BEAMS AND REPLACING WITH BOLTED, GALVANIZED STEEL BEAMS, GIRDERS AND GRATING.
- REMOVING EXISTING 5-TON BRIDGE CRANE AND HOIST AND ADDING A 5-TON BRIDGE CRANE IN THE EXISTING BUILDING WITH SWITCH AND STATIONARY TRACK EXTENDING TO DOCK.
- REMOVING EXISTING VALVE ACTUATORS AND INSTALLING DIRECTLY ONTO VALVES.
- POWER WASHING AND SEALING EXTERIOR WALLS, REF. SPEC SECTION 079100.
- VARIOUS ELECTRICAL AND PLUMBING MODIFICATIONS.
- TWO ADD ALTERNATES:  
A. INSTALLING REMOTE CONTROLS FOR VALVE ACTUATORS  
B. REMOVING A 48" VALVE AND INSTALLING A NEW 48" BUTTERFLY VALVE PURCHASED BY OWNER.

ANTICIPATED SEQUENCE OF CONSTRUCTION:

- PREPARE SITE FOR CONSTRUCTION VEHICLES.
- REMOVE VALVE ACTUATORS FROM THE UPPER FLOOR AND REINSTALL DIRECTLY ON THE VALVES BELOW.

### PROJECT DESCRIPTION NOTES (CONT.):

- PROTECT REMAINING PIPES AND EQUIPMENT FROM CONSTRUCTION DAMAGE. SHIELD MOTORS AND ACTUATORS FROM DUST.
- INSTALL TEMPORARY LATERAL BRACING NEAR FLOOR LEVEL FOR WALLS, PLAN TO BE DESIGNED AND SEALED BY ENGINEER REGISTERED IN THE STATE OF OKLAHOMA, AND PROVIDED BY CONTRACTOR.
- DEMOLISH CONCRETE FLOOR AND BEAMS. (PROVIDE TEMPORARY ACCESS TO BASEMENT FOR STAFF.)
- INSTALL PERIMETER CHANNEL AND NEW GALVANIZED BEAMS AND GRATING.
- INSTALL CRANE TRACK, TROLLEY AND HOIST AS AVAILABLE.
- REINSTALL ALL EQUIPMENT IN THE EXISTING BUILDING.
- INSTALL REMOTE VALVE ACTUATOR OPERATORS (ADD ALTERNATE 1).
- INSTALL LIGHTING.
- DEPENDING ON THE DELIVERY TIME FOR THE NEW VALVE (ALTERNATE 2), INSTALLATION MAY TAKE PLACE ANYWHERE BETWEEN STEPS 5 AND 10.
- POWER WASHING AND SEALING EXTERIOR WALLS MAY TAKE PLACE AT ANY TIME IN THE PROJECT, ENSURE NO DUST IS EMBEDDED IN SEALANT.

### SPAVINAW PUMP HOUSE

PROJECT NO. TMUA-W-23-09 TO-01

CITY OF TULSA, OKLAHOMA  
WATER & SEWER DEPARTMENT

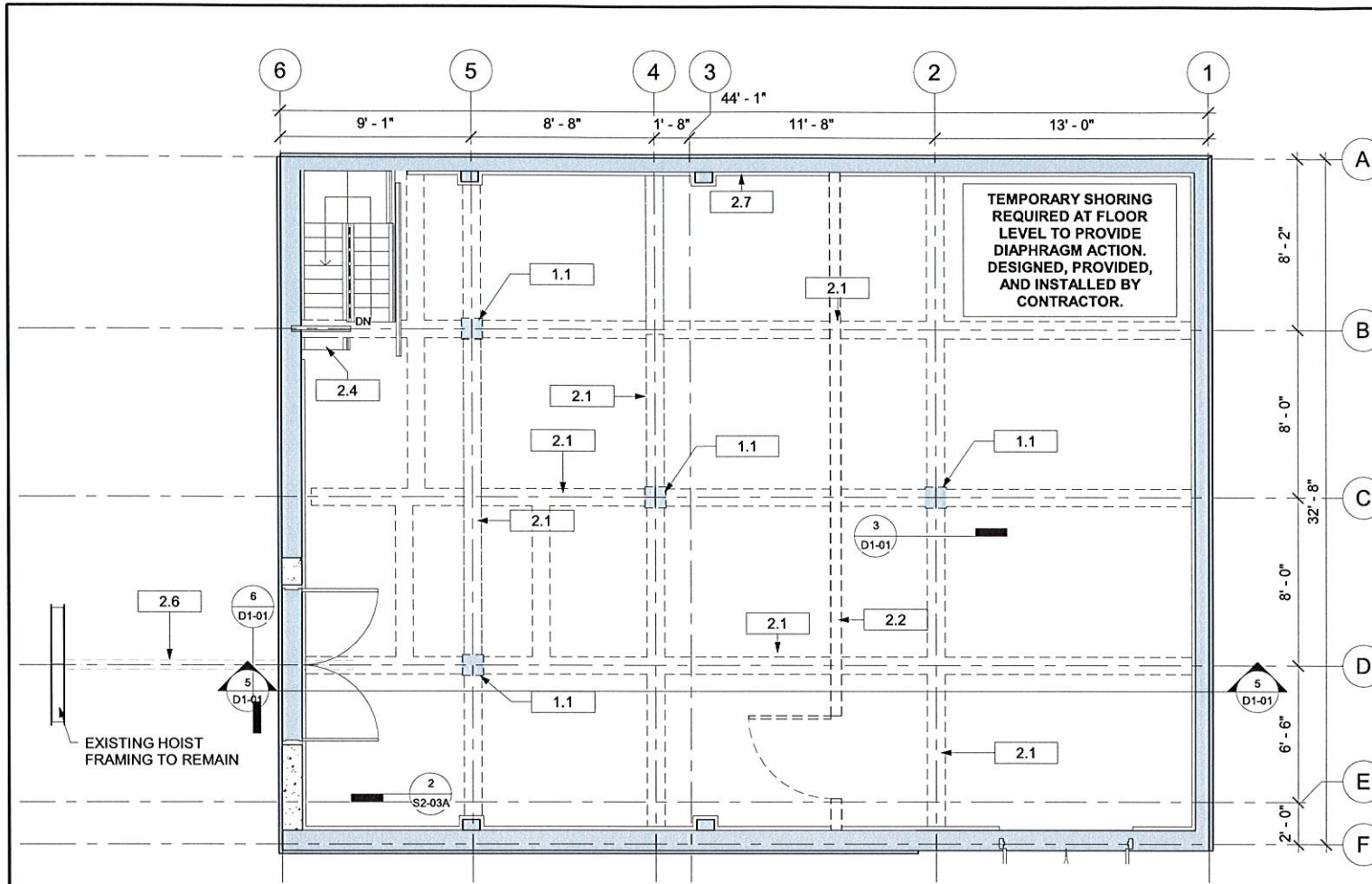
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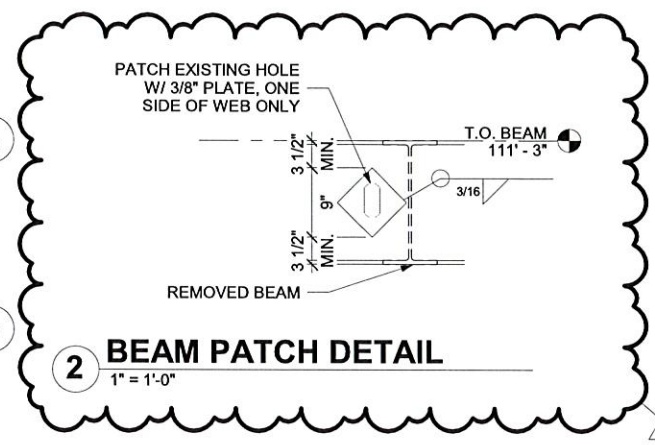


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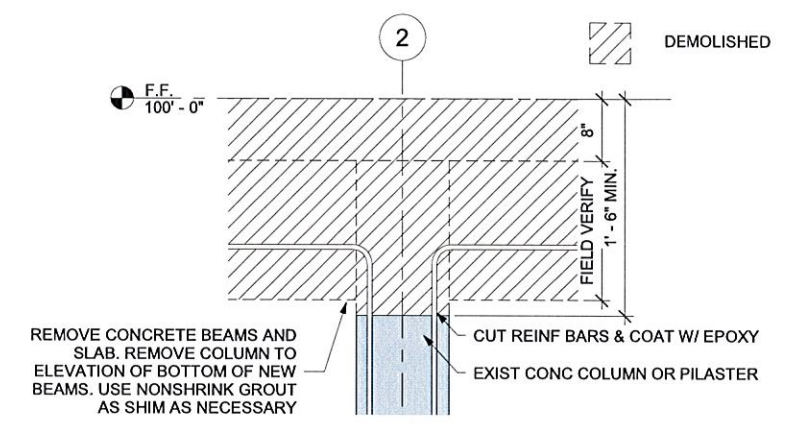


**1 DEMOLITION PLAN**  
1/4" = 1'-0"

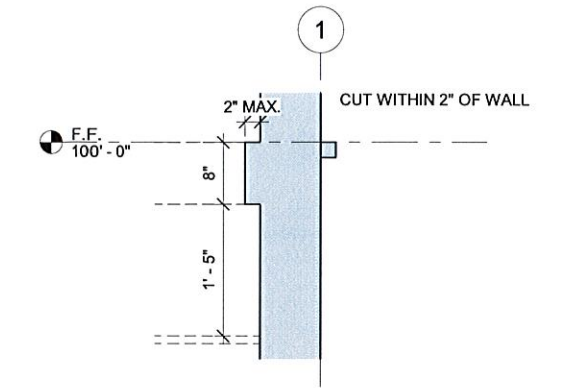


**2 BEAM PATCH DETAIL**  
1" = 1'-0"

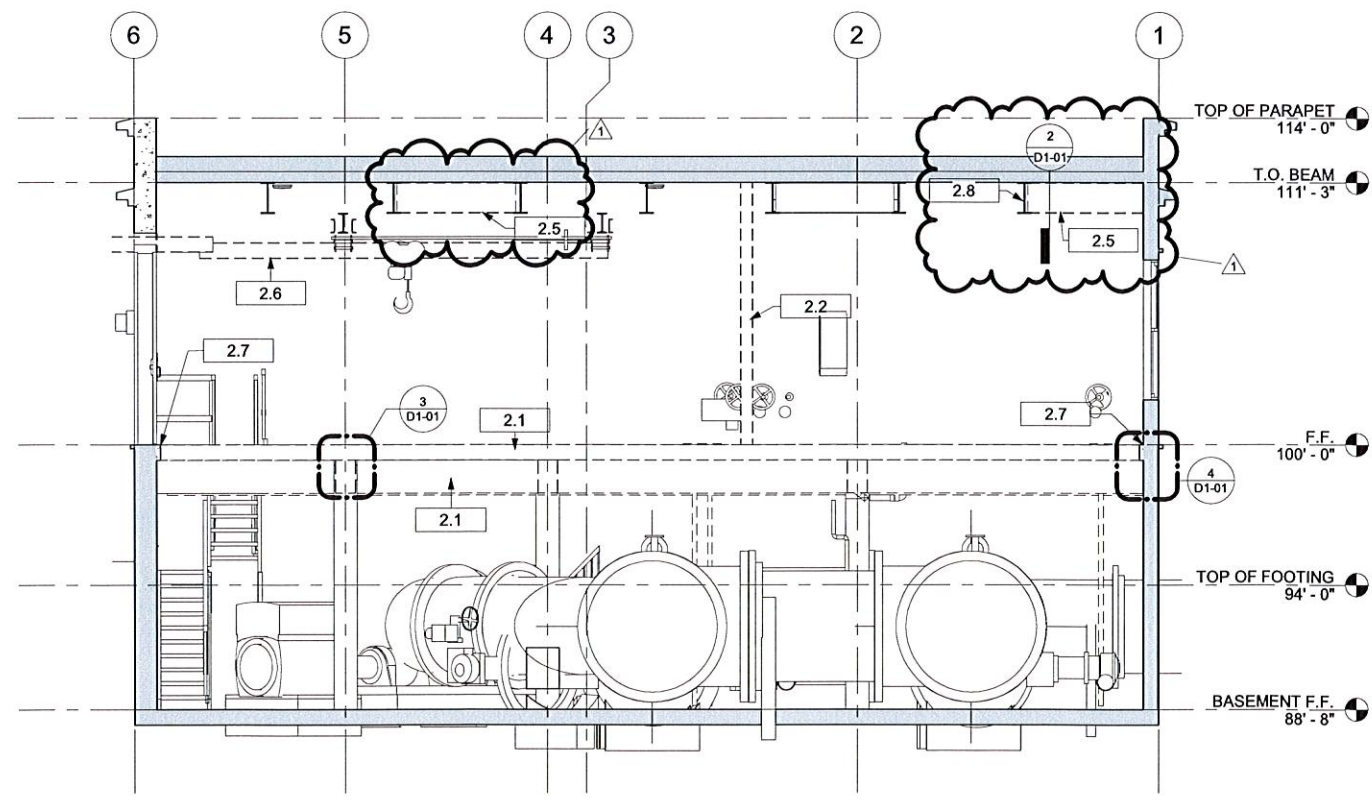
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Key Value	Keynote Text
1.1	EXISTING CONCRETE COLUMNS TO REMAIN
2.1	REMOVE 8" SLAB AND CONCRETE BEAMS. CUT OFF REINFORCING BARS AND COAT WITH EPOXY AT THE LINES OF REMOVAL.
2.2	REMOVE INTERIOR WALL.
2.4	REMOVE AND REINSTALL EXISTING STEEL STAIRS. PROVIDE TEMPORARY ACCESS FOR CITY OF TULSA STAFF.
2.5	REMOVE BEAM.
2.6	REMOVE CRANE AND RAIL.
2.7	CUT WITHIN 2" OF WALL & PAINT EXPOSED REBAR WITH EPOXY.
2.8	REPAIR HOLE IN BEAM WEB.



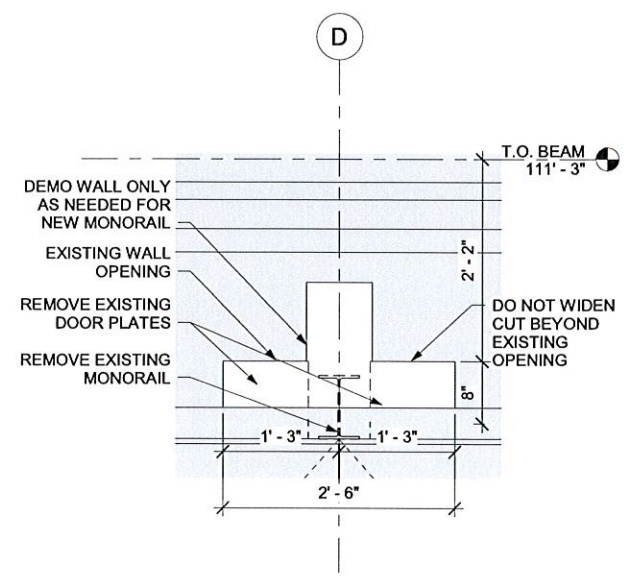
**3 DEMOLITION DETAIL @ CONCRETE COLUMNS**  
1" = 1'-0"



**4 SLAB DEMOLITION @ WALL TYP.**  
1" = 1'-0"



**5 DEMOLITION SECTION**  
1/4" = 1'-0"



**6 CRANE TRANSFER DEMO DETAIL**  
1" = 1'-0"

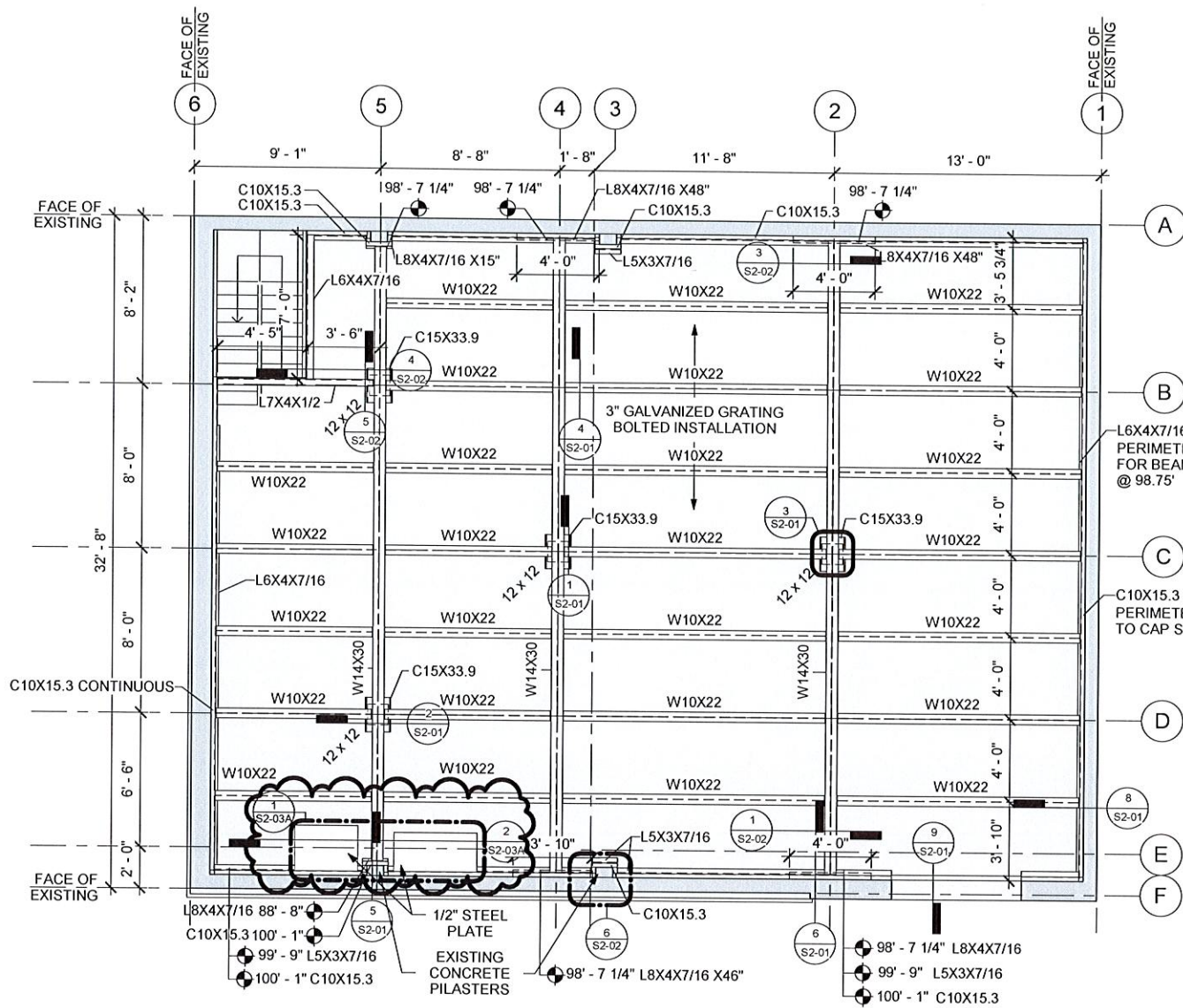


<b>SPAVINAW PUMP HOUSE</b>																																																							
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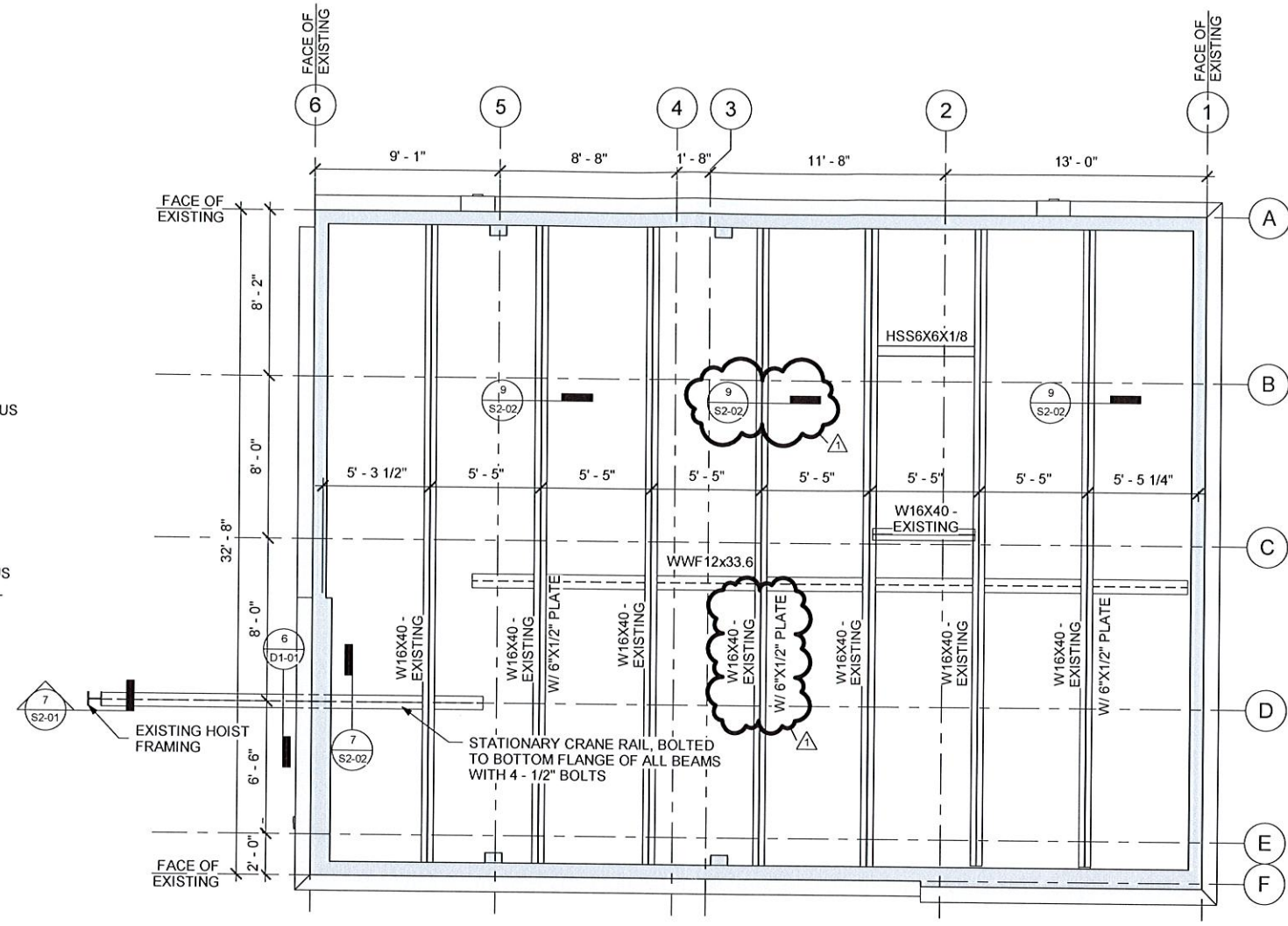
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SPAVINAW PUMP HOUSE TMUA-W-23-09 TO-01





**1 FIRST FLOOR FRAMING PLAN**  
1/4" = 1'-0"



**2 ROOF FRAMING PLAN**  
1/4" = 1'-0"



**SPAVINAW PUMP HOUSE**

PROJECT NO. TMUA-W-23-09 TO-01

CITY OF TULSA, OKLAHOMA  
WATER & SEWER DEPARTMENT

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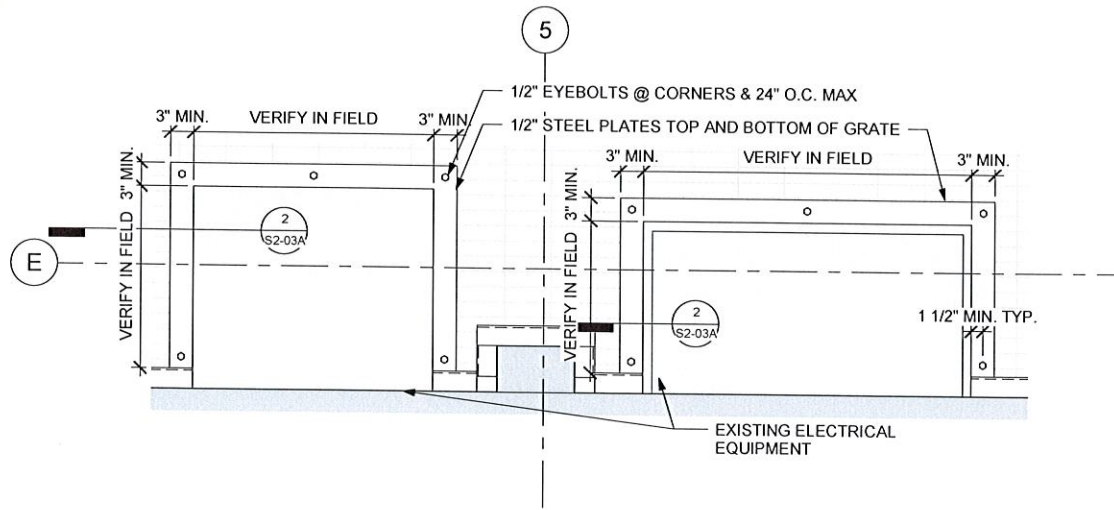
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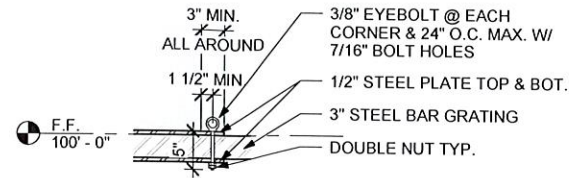
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SPAVINAW PUMP HOUSE TMUA-W-23-09 TO-01





**1 BOLT PATTERN**  
1" = 1'-0"



**2 EQUIPMENT SUPPORT DETAIL**  
1" = 1'-0"



**SPAVINAW PUMP HOUSE**


PROJECT NO. TMUA-W-23-09 TO-01

CITY OF TULSA, OKLAHOMA  
WATER & SEWER DEPARTMENT

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				ATLAS PAGE NO:	10629	PAGE NO. 14	OF 24
				SHEET NAME:	<b>EQUIPMENT SUPPORT DETAILS</b>		SHEET NO.
							<b>S2-03A</b>



## GENERAL ELECTRICAL NOTES

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE PROJECT SITE PRIOR TO SUBMITTING BID IN ORDER TO VERIFY THE EXTENT OF THE CONSTRUCTION WORK AND THE ACTUAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. SUBMITTAL OF BID SHALL BE CONSIDERED PROOF THAT THE CONTRACTOR HAS VISITED THE JOB SITE AND IS FAMILIAR WITH THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROCURING ALL NECESSARY PERMITS AND LICENSES REQUIRED FOR WORK. PAY ALL LAWFUL FEES, INCLUDING, BUT NOT LIMITED TO UTILITY DEPOSITS, INSPECTION FEES, AND TEMPORARY AND PERMANENT CONSTRUCTION FEES.
- PROVIDE ELECTRICAL UTILITY WITH THE CONSTRUCTION SCHEDULE WHEN IT BECOMES AVAILABLE.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS WITH OTHER TRADES. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. FAILURE TO COORDINATE WITH OTHER TRADES SHALL NOT RESULT IN A CHANGE ORDER.
- NOTIFY ENGINEER AND REQUEST ADDITIONAL INFORMATION FOR PROPOSED ALTERNATE OR ALTERNATE EQUIPMENT OTHER THAN LISTED IN CONTRACT DOCUMENTS OR SUBMITTED DURING PRODUCT REVIEW WHICH REQUIRES ADDITIONAL SPACE, SUPPORT, LAYOUT OR ELECTRICAL REQUIREMENT. PROVIDE WORK ONLY AFTER WRITTEN NOTICE TO PROCEED FROM BOTH ENGINEER OF RECORD AND OWNER.
- SERVICE EQUIPMENT SHALL BE MARKED WITH THE AVAILABLE FAULT CURRENT ON THE PANEL PER NEC 110.24. COORDINATE WITH LOCAL UTILITY.
- PROVIDE HANDLE TIES ON ALL MULTIWIRED BRANCH CIRCUITS TO MEET THE REQUIREMENTS OF NEC 210.4(B).
- PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZED PER NEC) IN ALL CONTAINERS CONTAINING POWER CIRCUITS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
- PROVIDE A COMPLETE TYPED PANELBOARD IDENTIFICATION SCHEDULE AND PANELBOARD NAMEPLATE FOR ALL PANELS. PROVIDE A LAMINATED DIRECTORY FOR THE SITE AND AN ELECTRONIC COPY ON A FLASH DRIVE AS PART OF FINAL O&M SUBMISSION.
- PROVIDE DEVICE LABELS (STICK ON MYLAR TAPE LABEL WITH PANEL AND BRANCH CIRCUIT-14" HIGH BLACK LETTER) FOR ALL ELECTRICAL DEVICES WITHIN THE SCOPE OF THIS PROJECT.
- BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG IN 3/4" C UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE MAY BE USED FOR THE FINAL 15-FT OF RUN.
- CONTRACTOR SHALL SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3)(a) WHERE CIRCUITS ARE GROUPED.
- ALL FEEDER AND BRANCH CIRCUITS SHALL BE INSTALLED ABOVE GROUND, UNLESS SPECIFICALLY NOTED IN PLANS TO BE BELOW GRADE.
- MINIMIZE VISIBILITY OF SURFACE-MOUNTED CONDUIT. GROUP CONDUITS AND ROUTE HORIZONTALLY TO NEAREST BREAK IN WALL, TURN 90 DEGREES AND ROUTE TO STRUCTURE GROUP BRANCH CIRCUITS WHEN POSSIBLE TO REDUCE CONDUITS. UTILIZE NEAREST WALL CHASES WHEN POSSIBLE.
- PROVIDE ARC FLASH WARNING LABELS ON ALL REQUIRED EQUIPMENT.
- HOMERUNS ARE SHOWN SEPARATELY TO PRESERVE DRAWING CLARITY. CONTRACTOR IS PERMITTED TO COMBINE HOMERUNS SERVING LIGHTING AND WIRING DEVICES AS ALLOWED BY THE NEC.

## PROJECT SPECIFIC NOTES

- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE 2020 NATIONAL ELECTRICAL CODE (NEC) (INCLUDING LOCAL AMENDMENTS), AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE CONFLICTS ARISE, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- USE OF METALCLAD CABLE IS ACCEPTABLE FOR LIGHTING WHIPS. OTHER USES ARE SUBJECT TO APPROVAL BY ENGINEER OF RECORD PRIOR TO INSTALLATION.
- ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE. SET-SCREW TYPE NOT ALLOWED.
- ALL COMPONENTS RETAINED FOR REINSTALLATION SHALL BE SAFELY STORED IN SECURED LOCATION. ALL RETAINED EQUIPMENT IS FULLY FUNCTIONAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER FUNCTIONALITY OF ALL SYSTEMS AFTER RE-INSTALLATION.

## PROJECT SCOPE NOTES

THE SCOPE OF THIS PROJECT IS TO PROVIDE MODIFICATIONS TO THE EXISTING POWER AND LIGHTING SYSTEMS AS PART OF A RENOVATION TO AN EXISTING PUMP STATION AT SPAVINAW LAKE. THE EXISTING BUILDING IS A TWO STORY STRUCTURE CONSISTING OF A BASEMENT AND A FIRST FLOOR. THE EXISTING FIRST FLOOR IS TWO ROOMS. THE WALL BETWEEN THE TWO ROOMS WILL BE REMOVED. THE CONCRETE FLOOR SEPARATING THE BASEMENT AND THE FIRST FLOOR WILL BE REMOVED AND REPLACED WITH METAL GRATING.

- REMOVE AND RETAIN ALL EXISTING FLOOR MOUNTED ELECTRICAL EQUIPMENT ON FIRST FLOOR FOR RE-INSTALLATION.
- WHERE MECHANICAL EQUIPMENT IS TO BE REMOVED AND REINSTALLED, DISCONNECT, REMOVE MECHANICAL EQUIPMENT AND DEMO ALL CONDUIT AND WIRE BACK TO PANEL.
- REMOVE ROUND PENDANT LIGHT FIXTURES IN FIRST FLOOR CEILING. RETAIN LINEAR FLUORESCENT FIXTURE IN FIRST FLOOR CEILING.
- CONTRACTOR SHALL REVIEW ALL MATERIALS, EQUIPMENT, & PARTS THAT HAVE BEEN REMOVED WITH OWNER. SHOULD THE OWNER WANT TO RETAIN ANY MATERIALS THE CONTRACTOR SHALL REMOVE AND DELIVER RETAINED MATERIAL TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND BE DISPOSED OF IN A LEGAL MANNER.
- INSTALL NEW PENDANT LIGHT FIXTURES IN NEW LOCATIONS IN FIRST FLOOR CEILING.
- AFTER METAL GRATING IS INSTALLED, RE-INSTALL ALL STORED EQUIPMENT AND FIXTURES. PROVIDE NEW CONDUIT AND WIRE TO RE-FEED THIS EQUIPMENT AND FIXTURES.

## POWER INTERRUPTION NOTE

POWER INTERRUPTIONS. POWER SUPPLY TO THE BUILDING MAY BE INTERRUPTED UNDER THE FOLLOWING CONDITIONS:

- POWER CAN ONLY BE INTERRUPTED BETWEEN OCTOBER 15, 2025 AND MARCH 15, 2026.
- POWER INTERRUPTIONS MUST BE COORDINATED WITH OWNER.
- OWNER MUST BE NOTIFIED A MINIMUM OF TWO (2) WEEKS PRIOR TO POWER STOPPAGE.
- POWER MUST BE RESTORED A MINIMUM OF FOUR (4) WEEKS PRIOR TO PROJECT CLOSE-OUT TO REESTABLISH COMMUNICATIONS PRIOR TO HIGH DEMAND SEASON.

## GENERAL LIGHTING NOTES

- THE LOCATION OF DUCTS, PIPE AND EQUIPMENT AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC AND SCHEMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES BEFORE INSTALLATION. LIGHT FIXTURE LOCATIONS SUPERSEDE HVAC DUCTWORK, GRILLES AND DIFFUSERS. OFFSET TO AVOID STRUCTURE AND/OR ANY OTHER PIPING.
- COORDINATE EXACT FIXTURE LOCATIONS WITH STRUCTURE, DIFFUSERS, ETC.
- WHERE FIELD CONDITIONS WILL INTERFERE WITH THE INTENDED LIGHTING LAYOUT, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT AND ENGINEER OF RECORD.
- REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- EXIT LIGHTS AND EMERGENCY LIGHTS SHALL BE CONNECTED TO UNSWITCHED PORTION OF LIGHTING CIRCUIT SERVING AREA.
- LIGHT FIXTURES WITH EMERGENCY BATTERY BACKUP SHALL HAVE ADDITIONAL UNSWITCHED HOT/NEUTRAL PAIR OF CONDUCTORS ROUTED TO BATTERY PACK.
- PROVIDE ALL ACCESSORIES REQUIRED FOR FUNCTIONAL ELECTRICAL INSTALLATION AND SUPPORT.
- EXIT SIGN MOUNTING:  
A. WALL: CENTER 12" ABOVE DOOR OPENING.  
B. CEILING/PENDANT: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
- EMERGENCY LIGHT MOUNTING:  
A. COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR MAINTAINED LIGHTING LEVELS AND COORDINATE ELEVATIONS WITH ARCHITECT AND ENGINEER.
- EMERGENCY LIGHT ELECTRICAL CONNECTION:  
A. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 168 HOURS BEFORE INITIAL TESTING.  
B. AFTER EMERGENCY LIGHT HAS BEEN POWERED DO NOT REMOVE POWER FOR EXTENDED PERIODS OF TIME.
- PROVIDE TWO COPIES AND A DIGITAL COPY OF OPERATION AND MAINTENANCE MANUALS FOR ALL LIGHT FIXTURES TO OWNER.

## ABBREVIATIONS

A	Amperes	IDF	Intermediate Distribution Frame
AC	Air Conditioning	IMC	Intermediate Metal Conduit
AFF	Above Finished Floor	kV	Kilovolts
AFG	Above Finished/Final Grade	kVA	KiloVolt-Amperes
AIC	Amperes Interrupting Capacity	kW	Kilowatts
ATS	Automatic Transfer Switch	LCD	Liquid Crystal Display
AWG	American Wire Gauge	LED	Light Emitting Diode
BAS	Building Automation System	LV	Low Voltage
BPS	Bolted Pressure Switch	MC	Momentary Contact
C	Conduit	MDF	Main Distribution Frame
CB	Circuit Breaker	N	Neutral
CDF	Cable Distribution Frame	O.C.	On Center
CKT	Circuit	P	Pole
ded	dedicated	PC	Photocell
DIA	Diameter	PNL	Panel
DP	Distribution Panel	PVC	Polyvinyl Chloride
EB	Electronic Ballast	SPD	Surge Protective Device
EMT	Electric Metallic Tubing	SW	Switch
fc	Footcandles	SWBD	Switchboard
G	Ground	UPS	Uninterruptible Power Supply
GFI	Ground Fault Circuit Interrupter	UTP	Unshielded Twisted Pair
GFCI	Ground Fault Circuit Interrupter	V	Volts
GFP	Ground Fault Protection	VA	Volt-Amperes
GND	Ground	VFD	Variable Frequency Drive
GRC	Galvanized Rigid Conduit	W	Watts
HID	High Intensity Discharge	w/	with
HP	Heat Pump / Horsepower	WP	Weatherproof
HVAC	Heating, Ventilation, and Air Conditioning	WR	Weather-resistant
HWG	Heavy Wall Gauge	XFMR	Transformer

## POWER SYMBOL LEGEND

	ELECTRICAL SWITCHBOARD
	ELECTRICAL DISCONNECT SWITCH
	FUSED ELECTRICAL DISCONNECT SWITCH
	COMBINATION MOTOR STARTER
	MOTOR STARTER
	ENCLOSED CIRCUIT BREAKER
	HOMERUN, CONCEALED IN WALLS AND CEILINGS
	HOMERUN, CONCEALED IN SLAB OR BELOW GRADE
	CIRCUIT AND (assigned switch A-25 (a) group)
	LOW VOLTAGE WIRING
	MANUAL MOTOR STARTER SWITCH
	ELECTRICAL POINT OF CONNECTION OR GROUND ROD
	ELECTRICAL JUNCTION BOX
	DUPLEX RECEPTACLE
	DOUBLE-DUPLEX RECEPTACLE
	6" ABOVE COUNTER, COORDINATE FINAL HEIGHTS WITH MILLWORK ELEVATIONS
	GFCI RECEPTACLE
	SIMPLEX RECEPTACLE, NEMA TYPE NOTED ON PLANS
	DUPLEX/USB COMBO RECEPTACLE
	LEGRAND RFB4A OR EQUAL (2) DUPLEX RECEPTACLES AND (4) COMMUNICATIONS PORTS.
	SMOKE DETECTOR
	TIMECLOCK

## LIGHTING SYMBOL LEGEND

	STRIP LIGHT FIXTURE
	2x2 LIGHT FIXTURE, SHADING INDICATES EMERGENCY BACKUP
	DOWNLIGHT
	EMERGENCY FIXTURE
	WALL/CEILING MOUNTED EXIT SIGN, ARROWS INDICATE EGRESS PATH
	PHOTOCCELL, 120V
	SINGLE POLE SWITCH
	SWITCH - LOWER CASE INDICATES SWITCH GROUP
	INFRARED OCCUPANCY SENSOR SWITCH
	DIMMER - FORWARD PHASE
	INFRARED OCCUPANCY SENSOR SWITCH, 0-10V DIMMING
	3-WAY SWITCH
	4-WAY SWITCH
	DUAL TECHNOLOGY PIRULTRASONIC SENSOR SWITCH
	LOW VOLTAGE SWITCH, RE: CONTROL NOTES FOR MORE INFORMATION
	LIGHTING POWER PACK, RE: CONTROL NOTES FOR MORE INFORMATION
	IR OCCUPANCY SENSOR, WIDE OPTICS, 'C' - CORNER IR, 'W' - WALL IR
	UL924 EMERGENCY RELAY

## SPAVINAW PUMP HOUSE

PROJECT NO. TMUA-W-23-09 TO-01

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

**BKL, INCORPORATED**  
ENGINEERS & ARCHITECTS

GREEN ACORN  
MECHANICAL, ELECTRICAL & PLUMBING



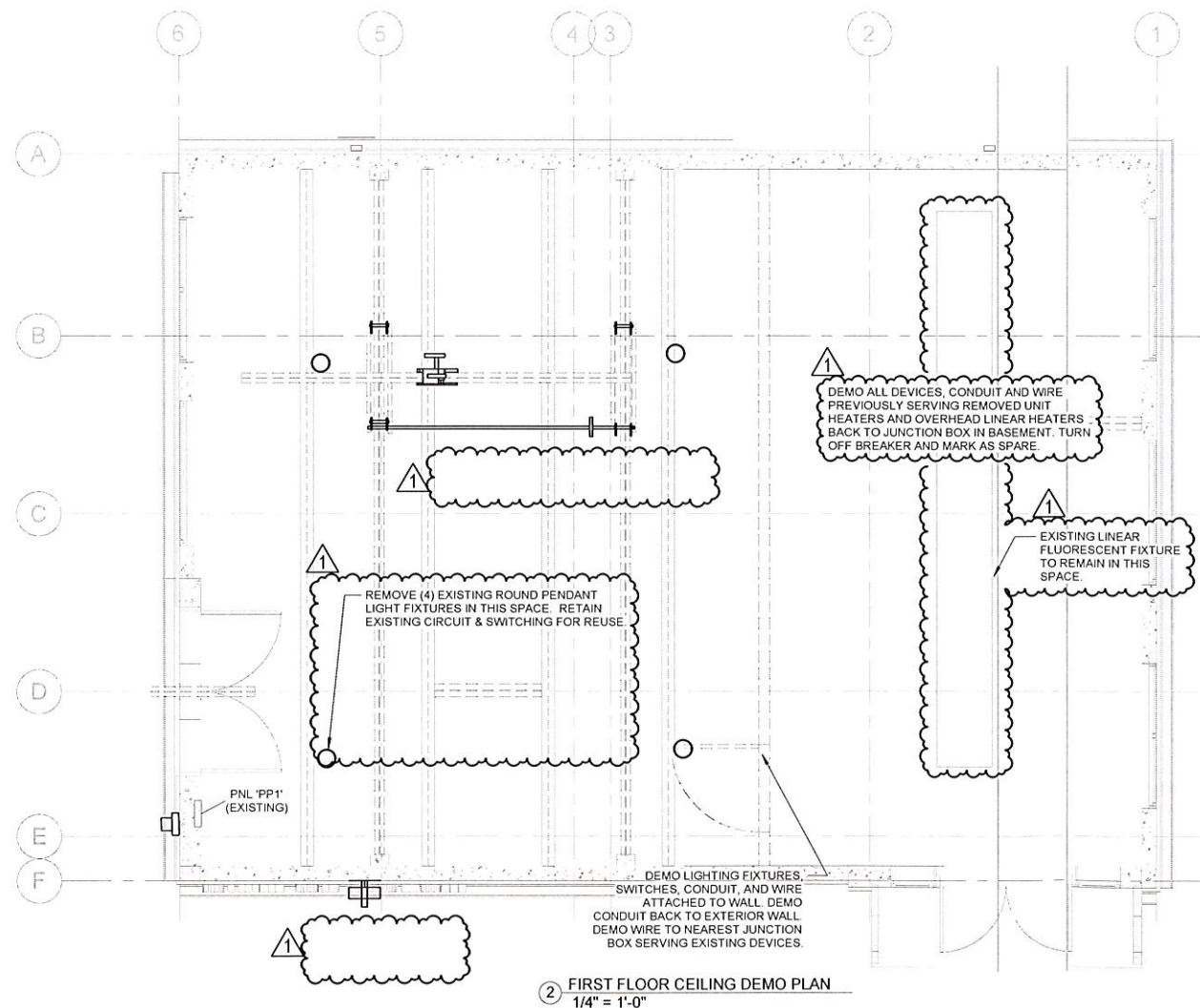
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ATLAS PAGE NO:	10829	PAGE NO.	20 OF 24
SHEET NAME:	ELECT NOTES, SYMBOLS, & ABBREV.		
SHEET NO.	E0-01		



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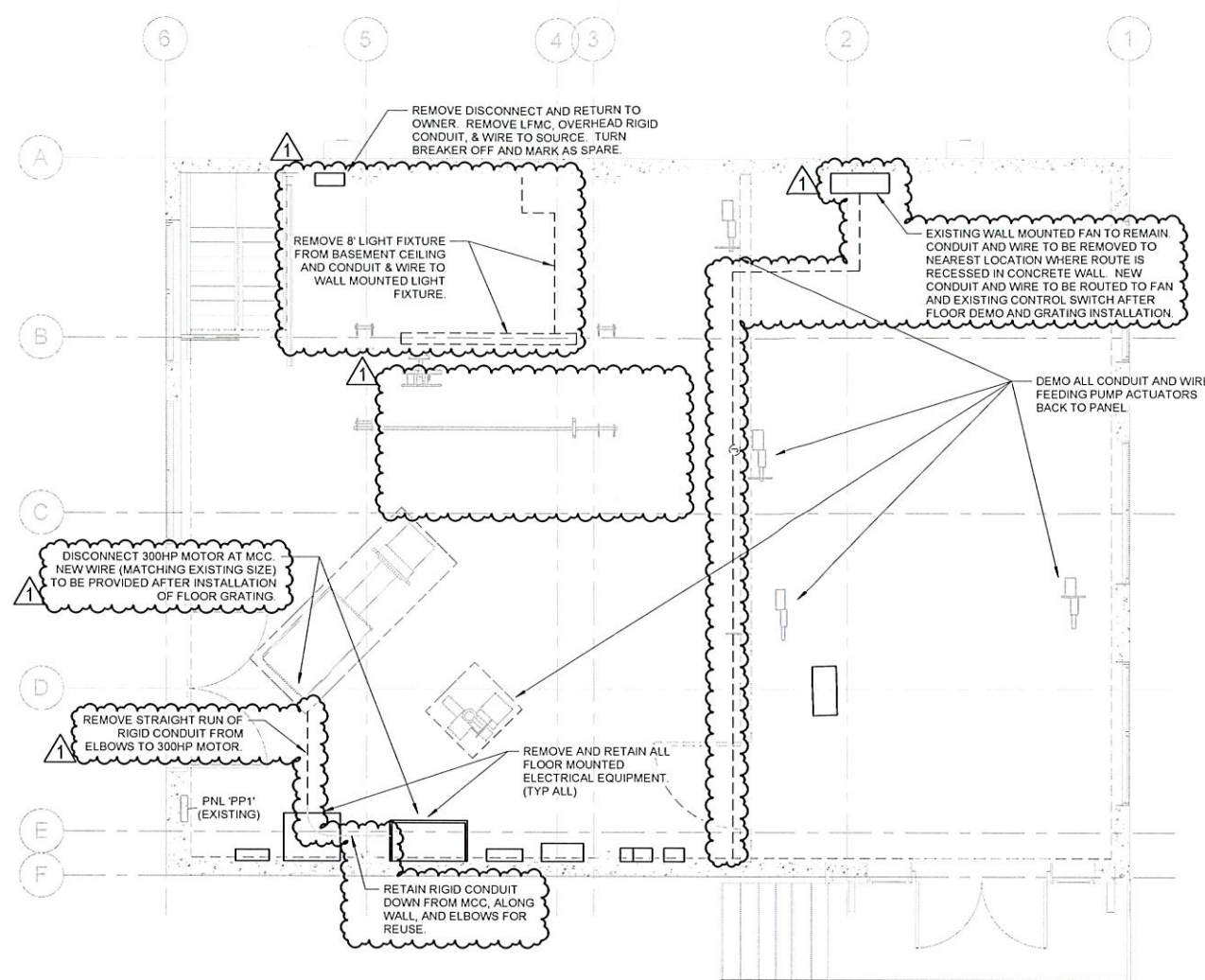


2 FIRST FLOOR CEILING DEMO PLAN  
1/4" = 1'-0"

EXISTING EQUIPMENT, CONDUIT, WIRING & PIPING SYSTEMS THAT ARE TO REMAIN SHALL BE PROTECTED FROM DUST, DEBRIS & DAMAGE DURING ALL PHASES OF CONSTRUCTION.

ALL COMPONENTS RETAINED FOR REINSTALLATION SHALL BE SAFELY STORED IN SECURED LOCATION. ALL RETAINED EQUIPMENT IS FULLY FUNCTIONAL. IT IS THE CONTRACTORS RESPONSIBILITY ENSURE PROPER FUNCTIONALITY OF ALL SYSTEMS AFTER RE-INSTALLATION.

SKIM AND PATCH ALL LOCATIONS WHERE DEMOLISHED CONDUIT STUBS OUT FROM CONCRETE WALLS. CONDUIT WITHIN WALLS IS TO BE ABANDONED IN PLACE.



1 ELECTRICAL POWER DEMO PLAN  
1/4" = 1'-0"



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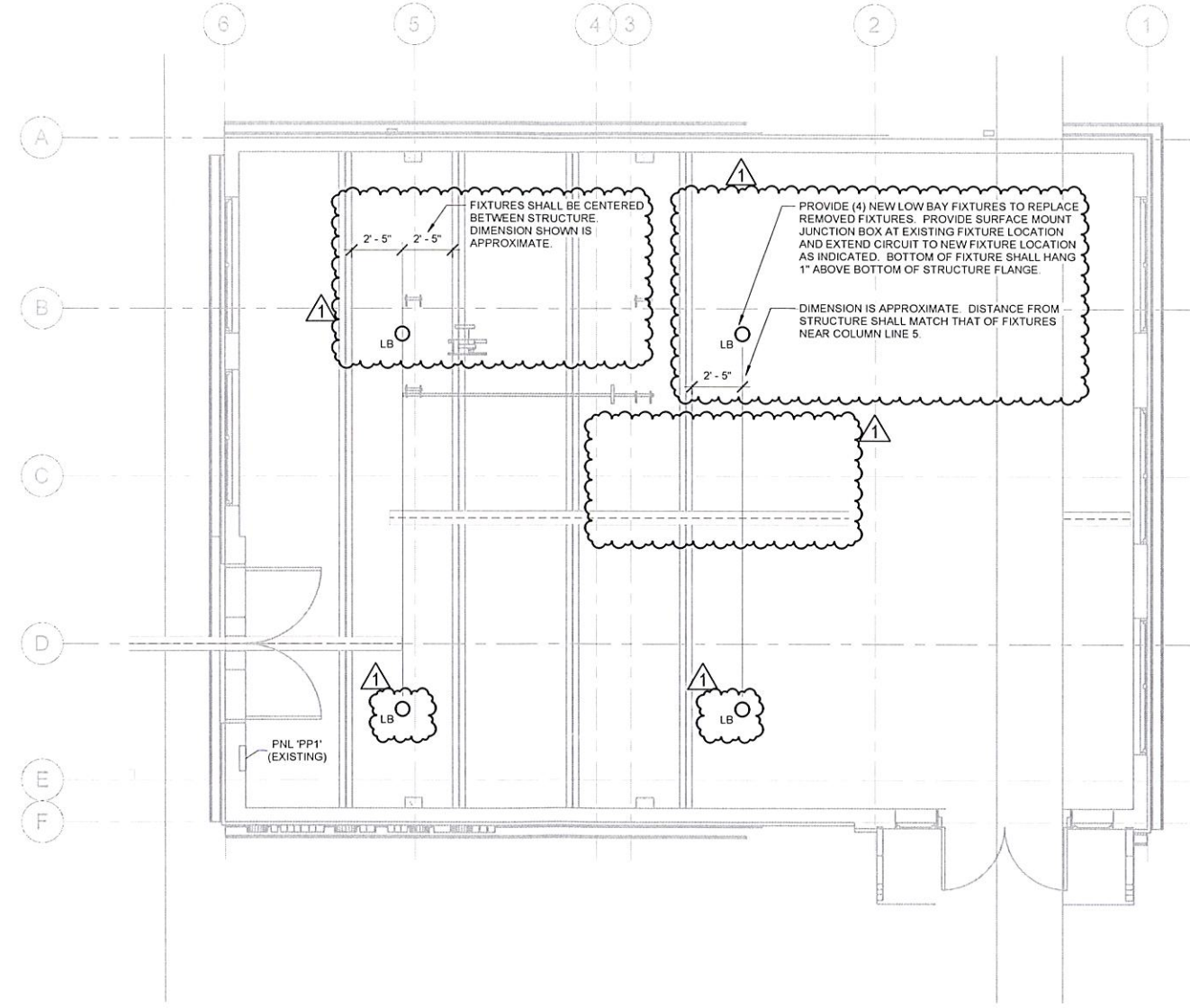
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SPAVINAW PUMP HOUSE TMUA-W-23-09 TO-01

DESIGN MANAGER	DATE	11/15/2024
PAGE NO.	21 OF 24	
SHEET NO.	ED1-01	

LIGHT FIXTURE SCHEDULE						
TAG	MANUFACTURER	CATALOG NUMBER	VOLTAGE	WATTAGE	LIGHT SOURCE	DESCRIPTION
LB	LSI	ARB-9-FS1-UNV-840-BLK-PMK BLK	120V	51 W	LED, 4000K	9" LOW BAY FIXTURE, 9000L OUTPUT

ALL COMPONENTS RETAINED FOR REINSTALLATION SHALL BE SAFELY STORED IN SECURED LOCATION. ALL RETAINED EQUIPMENT IS FULLY FUNCTIONAL. IT IS THE CONTRACTORS RESPONSIBILITY ENSURE PROPER FUNCTIONALITY OF ALL SYSTEMS AFTER RE-INSTALLATION.



1 FIRST FLOOR LIGHTING PLAN  
1/4" = 1'-0"



**SPAVINAW PUMP HOUSE**

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**CITY OF TULSA, OKLAHOMA**  
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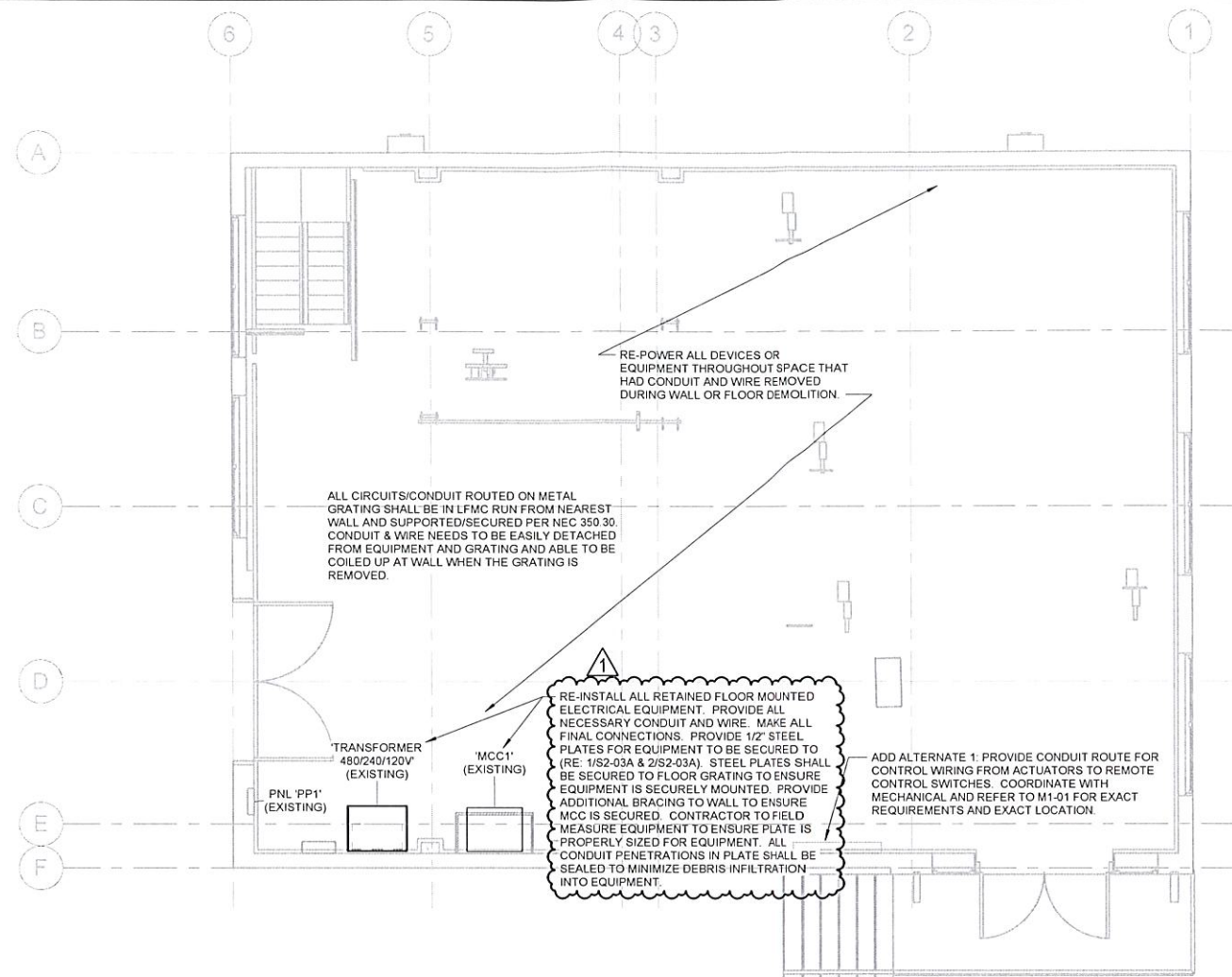
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SHEET NO. **E1-01**





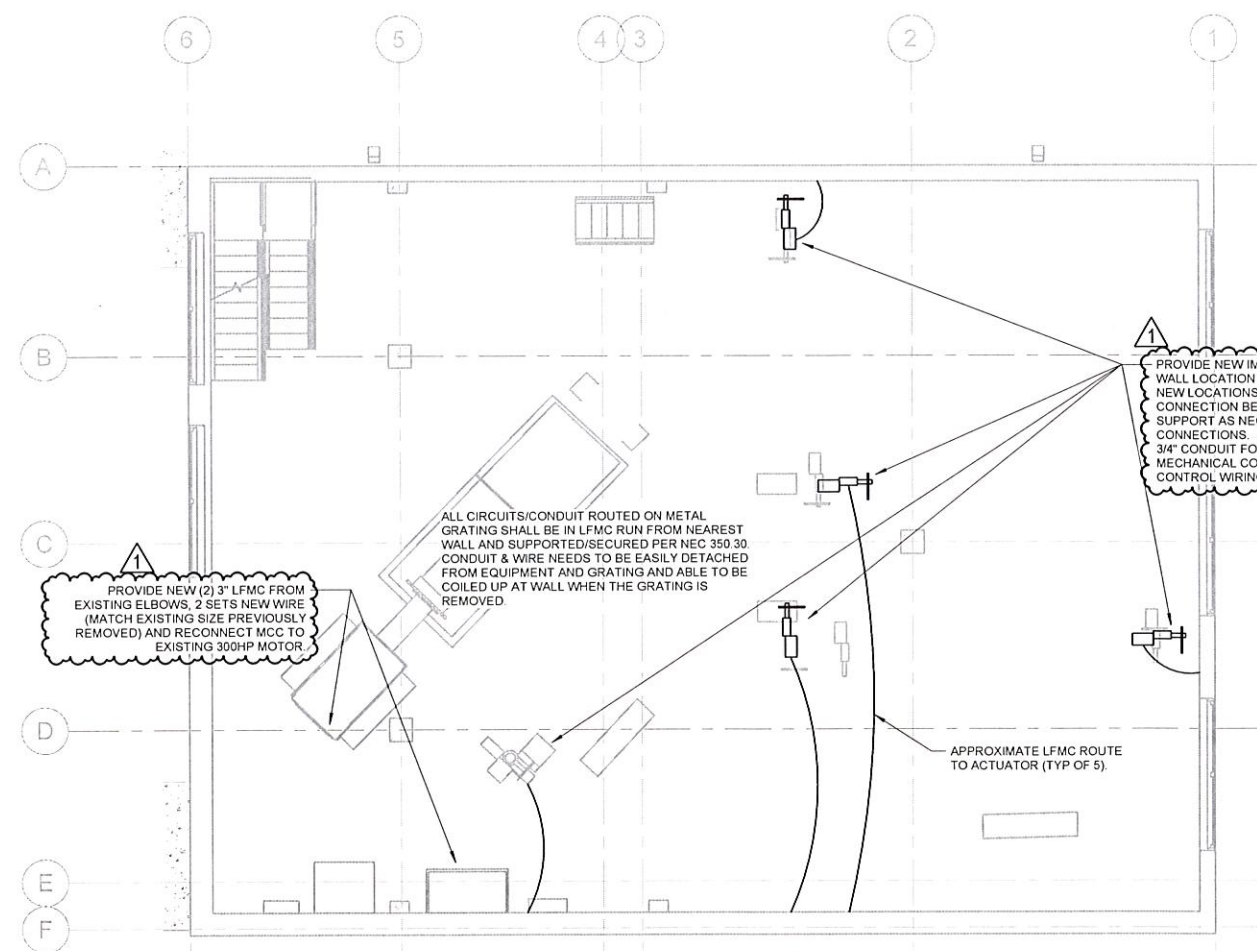
1 FIRST FLOOR POWER PLAN  
1/4" = 1'-0"



1 ENSURE NEW METAL FLOOR GRATING IS PROPERLY BONDED TO ELECTRICAL SYSTEM TO ENSURE NO POTENTIAL EXISTS BETWEEN GRATING AND ELECTRICAL EQUIPMENT.

EXISTING EQUIPMENT, CONDUIT, WIRING & PIPING SYSTEMS THAT ARE TO REMAIN SHALL BE PROTECTED FROM DUST, DEBRIS & DAMAGE DURING ALL PHASES OF CONSTRUCTION.

ALL COMPONENTS RETAINED FOR REINSTALLATION SHALL BE SAFELY STORED IN SECURED LOCATION. ALL RETAINED EQUIPMENT IS FULLY FUNCTIONAL. IT IS THE CONTRACTORS RESPONSIBILITY ENSURE PROPER FUNCTIONALITY OF ALL SYSTEMS AFTER RE-INSTALLATION.



2 BASEMENT POWER PLAN  
1/4" = 1'-0"

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							E2-01

