

DIVISION 26 ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to all Sections of Division 26. All of the electrical related work required for this project (unless noted otherwise) is a part of the electrical contract price and is not necessarily specified under Division 26 or shown on the electrical drawings. Therefore, all divisions of this specification and all drawings shall be consulted. The more stringent requirement of this specification (or drawings) shall be followed; regardless of what division or section the more stringent requirement resides.

1.2 GENERAL

- A. The Electrical Contractor shall furnish all labor, materials, tools, transportation, equipment, services and facilities, required for the complete and proper installation of all electrical work specified within the contract documents. The electrical installation shall include all materials, devices, apparatus, and equipment as specified herein, as shown on the drawings, AND as required for a complete and operational system.
- B. Experienced, qualified, licensed electricians shall install the entire electrical system in a first class, workmanlike manner. The electrical system shall be left completely connected and ready to give continuous, trouble-free service.
- C. The electrical drawings are shown in a schematic form (unless specifically dimensioned) and are intended to show only the approximate locations of devices, and equipment. This does not grant the contractor permission to locate devices and equipment as he sees fit.
 - a. Exact equipment locations, device placement, and conduit routings are not specified on the drawings (unless dimensioned) and shall be governed by structural conditions, ceiling/wall panel spacing, base cabinets, permanent furniture and other obstructions.
 - b. Full coordination of all work and consultation of all drawings shall be required to avoid possible interference with other trades. The architectural plans shall be consulted to determine space availability for electrical equipment prior to rough in.
 - c. The Architect reserves the right to make any reasonable change in the location of apparatus, outlets and equipment up to the time of rough in, without any additional expense to the Owner. *Relocating a receptacle outlet fit, in any direction is considered a reasonable change.*
- D. Any damage to the building or elements of the building including other trades work (accidental or intentional) caused by or originating from the Contractor shall be repaired at the cost of the Contractor.
- E. All electrical components shall be installed per the respective manufacturer's installation instructions.
- F. All existing fixtures, devices, and wiring are generally shown with a subdued linetype. All new fixtures, devices, and wiring are generally shown with a bold linetype.

1.3 QUALITY ASSURANCE, REGULATIONS, & CODES

- A. All Electrical Components, Devices, Equipment, and Accessories installed under this contract shall be listed and labeled by Underwriters Laboratories, Inc. (UL). Materials, which are not covered by UL shall be listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use. The Architect/Engineer must specifically approve materials that do not carry the UL label.
- B. All Electrical Components, Devices, Equipment, and Accessories installed under this contract shall be of the brand(s) specified herein, or approved as an equal by the Architect/Engineer within the contract documents. All materials and equipment furnished shall be new, free from defects, and of current production. Materials and equipment, which are no longer being produced, will not be acceptable.
- C. Each class of materials or equipment shall be of a single manufacturer. Do not intermix manufacturers of the same class of equipment. Manufacturers of all equipment shall have a permanent service organization, which will respond with service via telephone within 2 hours of request and in person (if necessary) within 24 hours of request.
- D. All electrical equipment and materials shall be received and stored by the Electrical Contractor in a manner which will protect the equipment and materials against physical damage, dirt, moisture, grease, etc. Conduit shall be kept closed and free of foreign objects.
- E. All electrical work shall comply with the latest rules and regulations of the National Electrical Code (NFPA 70), the Americans with Disabilities Act (ADA), the local ordinances (City, County, and State), the local utility companies and all other Boards, Codes, and Departments having jurisdiction. The electrical installation shall be performed in accordance with the latest Rules and Regulations of the Occupational Safety and Health Act (OSHA).
- F. All electrical work and material shown on the drawings or specified herein, which is determined to be in direct conflict with a code requirement or local ordinance, shall be provided and installed to meet the code or local ordinance. However, all electrical work indicated in the contract documents, which is determined to be in excess of code requirements or local ordinances, shall be performed as specified in the contract documents. Any deviations made from the plans and specifications in order to conform to codes, ordinances, laws, rules, or regulations shall be approved by the Owner and be made with no cost increase to the Owner. In cases where two or more codes have different levels of requirements (regarding the same topic), the more stringent code shall apply.

1.4 COORDINATION

- A. The electrical contractor shall visit the site and examine all existing conditions, which may affect work under his contract prior to bidding. Failure to visit the site and determine existing conditions is not a basis for additional compensation.
- B. Coordinate chases, slots, inserts, sleeves, and openings with general construction work and arrange in building structure during progress of construction to facilitate the electrical installations that follow.
- C. Coordinate service connections to components and systems furnished by utility companies.
 - a. Coordinate installation and connection of exterior underground and overhead utilities and services, including provision for electricity-metering components with the utility company.
 - b. All electrical service entrance equipment and work shall comply with requirements of authorities having jurisdiction and of utility company providing electrical power.
- D. Coordinate location of access panels and doors for electrical items that are concealed by finished surfaces.
- E. Where electrical identification devices are applied to field-finished surfaces, coordinate installation of identification devices with completion of finished surface.

1.5 PERMITS AND FEES

- A. The Electrical Contractor shall pull all permits required for this project. He shall pay for all fees related to the certificates, permits, licenses, and inspections.
 - a. These items must be submitted to the Architect before final acceptance of the project is granted.

1.6 ADJUSTING, ALIGNING AND TESTING

- A. The Electrical Contractor shall keep a calibrated voltmeter, ammeter, ground test meter, infrared scanner, and megohm meter on site and available at all times during construction hours. Provide test readings as required by these specifications and as requested by the Engineer.
 - a. The electrical load shall be distributed equally across all phases from the service entrance equipment down to the smallest branch circuit panelboard. Keep a record of all adjustments and submit final voltage and amperage readings (each phase) to the Architect.
 - b. After the project is substantially completed, perform dielectric testing in accordance with the requirements of the National Electrical Code. The entire system shall test out to be free from short circuits and open circuits.
- B. Check, align, and adjust all components of the electrical system for optimum performance.
- C. The Owner reserves the right to conduct independent Acceptance Tests on the electrical system as he sees fit. These tests, if performed, will be used to determine compliance of these specifications and will be conducted in the presence of the Architect/Engineer and Contractor. Notification of these independent tests will be given a minimum of five (5) working days prior to execution. The contractor shall correct all deficiencies in materials and workmanship revealed by the Acceptance Tests.

1.7 SUBSTITUTION OF EQUIPMENT

- A. After execution of the contract, substitutions of equipment manufacturers and/or material manufacturers shall be permitted only when the equipment and/or material specified cannot be delivered to the job in time to complete the work in proper sequence.
 - a. Any delay must originate beyond the control of the contractor; otherwise the substitution will not be approved.
 - b. The Electrical Contractor must make substitution requests in writing. Written requests shall be accompanied with documentation from the specified manufacturer and from the proposed manufacturer indicating equality, differences in price, and differences in delivery dates.
 - c. The Owner shall receive all credits associated with the approved substitution via change order.

PART 2 - EXECUTION

2.1 GENERAL

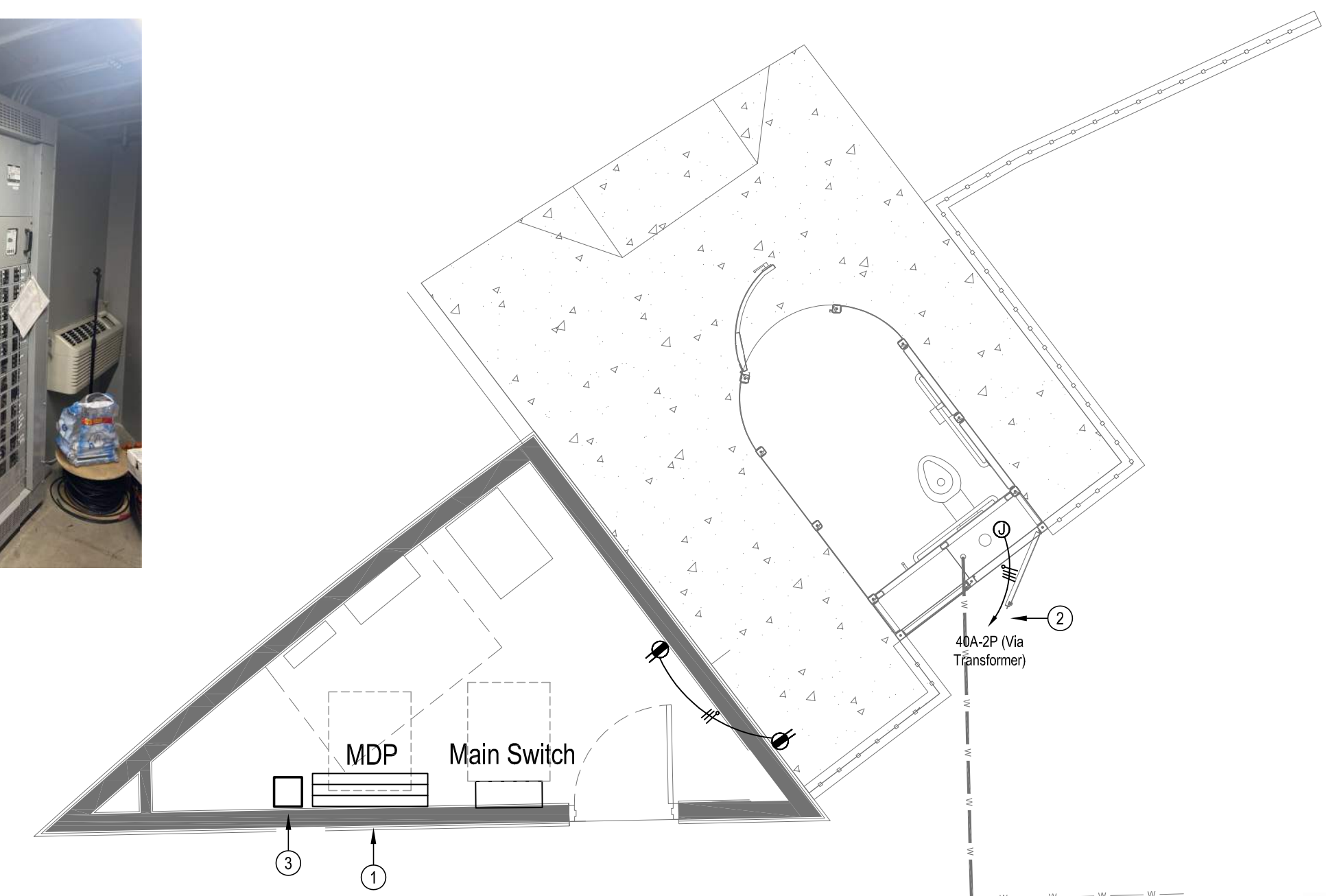
- A. All homeruns shall utilize a dedicated neutral conductor (no shared neutrals).
- B. Use #10awg conductor size on all 20a-120v branch circuit homeruns.
- C. All raceway bodies (conduit, nipples, wireways, troughs, gutters, etc.) housing phase conductor(s) shall be provided with a full-length, "green", insulated grounding/bonding conductor sized according to the respective phase conductors - per the latest edition of the nec.
- D. Use only copper conductors in raceways. Solid for #10 and #12. Stranded for #8 and larger.

ELECTRICAL SITE PLAN NOTES

- 1 EXISTING PANELBOARD (120/208) TO BE USED FOR RESTROOM BUILDING CIRCUIT.
- 2 CONNECT PRE-MANUFACTURED RESTROOM TO 40A-2P BREAKER IN EXISTING PANEL. ROUTE 3#6 & 1#10G. IN 1" PVC. REFERENCE AND FOLLOW MANUFACTURERS SUBMITTAL INSTRUCTIONS.
- 3 PROVIDE & INSTALL BUCK BOOST TRANSFORMER (THE RESTROOM REQUIRES 240V). EQUAL TO SOLA-HD #HS2071B (120/240V primary, 16/32V secondary). INPUT VOLTAGE = 208V, OUTPUT VOLTAGE = 238V AT 31.2 LOAD AMPS.



EXISTING PANEL MDP



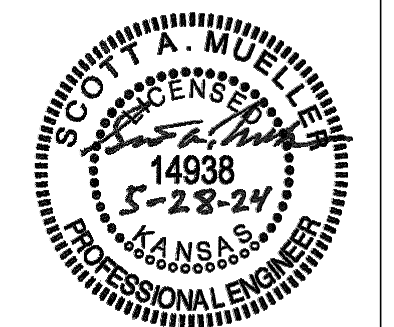
ELECTRICAL PLAN - NAFTZGER

1/4" = 1'-0"



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1995 Midfield Road
Wichita, KS 67209
(316) 264-8008



REV.	DATE	DESCRIPTION	BY

CITY OF WICHITA
WICHITA, KS 67202

DOWNTOWN RESTROOM &
HYDRATION STATIONS PROJECT
NAFTZGER PARK

JOB NO.: F02-2301675
DATE: MAY 28 2024
DESIGNED BY: SM
DRAWN BY: SM

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

SHEET NUMBER **E1**

