

# Addendum 04

DOCUMENT 00 91 00

**DATE:** April 15, 2026

**PROJECT:** Clermont County Facilities Phase 2 Management Building  
State Route 222  
Batavia, OH 45103

**PROJECT #:** 22001.00

**OWNER:** Clermont County Commissioners  
Contact: Ralph Linne  
101 E. Main Street, Suite 329  
Batavia, OH 45103

**ARCHITECT:** Garmann Miller  
38 South Lincoln Drive  
P.O. Box 71  
Minster, Ohio 45865

**TO:** Prospective Bidders

This addendum form is a part of the Contract Documents and modifies the Construction Documents dated February 19, 2026, with amendments and additions noted below.

Acknowledge receipt of this Addendum on the Bid Form. Failure to do so may disqualify the Bidder.

This addendum consists of 2 pages, 10 specification sections, and 4 re-issued drawing sheets.

## CHANGES TO THE PROJECT MANUAL

1. Section 01 10 00 Summary: Paragraph 1.05 Estimate of Construction Cost – Revise total estimate of construction cost to Eleven Million Six Hundred Thousand dollars (\$11,600,000).
2. Section 01 21 00 Allowances: Paragraph 1.04 Allowances Schedule, Item A – Revise General Contract - A Contingency Allowance to \$580,000.
3. Section 06 20 00 Finish Carpentry: Specification section added in its entirety.
4. Section 23 73 13 Modular Air-Handling Units: Paragraph 2.01 VTS America Inc has been added as an approved manufacturer and product.
5. Section 26 05 03 Work in Existing Buildings: Specification section added in its entirety.
6. Section 26 05 05 Minor Electrical Demolition: Specification section added in its entirety.



7. Section 26 22 00 Transformers: Specification section added in its entirety.
8. Section 26 32 14 Standby Generator Relocation: Specification section added in its entirety.
9. Section 26 36 00 Standby Transfer Switch Relocation: Specification section added in its entirety.
10. Section 27 41 19 Video Display Equipment: Specification section revised to update model numbers that were discontinued.

### **CHANGES TO THE DRAWINGS**

1. Drawing Sheet A0.1 General Notes, Abbreviations and Symbols: Added details for the dumpster enclosure and bollards.
2. Drawing Sheet PG1.1 Site Plumbing Plan – Generator Relocation: New Sheet has been added to move an existing generator and propane tank to a new location.
3. Drawing Sheet EG1.1 Existing Electrical Site Plan – Generator Relocation: New Sheet has been added to move an existing generator system to a new location.
4. Drawing Sheet EG1.2 One Line Diagrams and Panel Schedules – Generator Relocation: Sheet has been added to move an existing generator system to a new location.

### **ATTACHMENTS**

The following attachments are included and are part of this addendum:

Specification Sections – 01 10 00, 01 21 00, 06 20 00, 23 73 13, 26 05 03, 26 05 05, 26 22 00, 26 32 14, 26 36 00, 27 41 19

Drawing Sheets – A0.1, PG1.1, EG1.1, EG1.2

### **END OF ADDENDUM**



**SECTION 01 10 00  
SUMMARY**

**PART 1 GENERAL**

**1.01 PROJECT**

- A. Project Name: 22001.00 Clermont County Phase 2
- B. Owner's Name: Clermont County Commissioners.
- C. The Project consists of the construction of one new building and site work.
- D. The project is a signature project for the Owner and construction of the highest quality facility is vitally important in this respect, each contractor assumes a position of trust confidence in the performance of its duties to the Owner and shall perform its work on the project with the highest degree of competence, diligence, cooperation and workmanship.

**1.02 CONTRACT DESCRIPTION**

- A. Contract Type: A single prime contract based on a Stipulated Price as described in Document 00 50 00 - Contracting Forms and Supplements.

**1.03 OWNER OCCUPANCY**

- A. Owner intends to occupy the Project upon Substantial Completion.
- B. Schedule the Work to accommodate Owner occupancy.

**1.04 WORK SEQUENCE**

- A. The owner intends to award contracts soon after the receipt of bids.
- B. Coordinate construction schedule and operations with Owner.

**THIS IS A TAX EXEMPT PROJECT.**

**1.05 ESTIMATE OF CONSTRUCTION COST**

- A. The total estimate of construction cost is Eleven Million Six Hundred Thousand dollars (\$11,600,000)

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

**SECTION 01 21 00  
ALLOWANCES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Contingency allowance.
- B. Payment and modification procedures relating to allowances.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 20 00 - Price and Payment Procedures: Additional payment and modification procedures.

**1.03 CONTINGENCY ALLOWANCE**

- A. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, will be included in Change Orders authorizing expenditure of funds from this Contingency Allowance.
  - 1. All overhead and profit contemplated for the Work performed under each Allowance is to be included in the Base Bid.
- B. Funds will be drawn from the Contingency Allowance by Change Order.
- C. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.

**1.04 ALLOWANCES SCHEDULE**

- A. Contingency Allowance: General Contract - A; Include the stipulated sum/price of \$580,000.00 for use upon Owner's instructions.
- B. Contingency Allowance: Aid to Construction: Include the stipulated sum/price of \$30,000 for use upon Owner's instructions.
- C. Contingency Allowance: Tap Fee; Include the stipulated sum/price of \$60,000 for use upon Owner's instructions.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

**SECTION 06 20 00  
FINISH CARPENTRY**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Mechanical yard gates
- B. Hardware and attachment accessories.

**1.02 RELATED REQUIREMENTS**

- A. Section 06 10 00 - Rough Carpentry: Support framing, grounds, and concealed blocking.
- B. Section 05 5000 - Metal Fabrications

**1.03 REFERENCE STANDARDS**

- A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
- B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Coordinate the work with installation of associated and adjacent components.

**1.05 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data:
  - 1. Provide data on fire retardant treatment materials and application instructions.
  - 2. Provide instructions for attachment hardware and finish hardware.
- C. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
  - 1. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
- D. Samples: Submit two samples of wood trim 12 inch long.
- E. Samples: Submit color samples showing full range of product available for architects selection.

**1.06 QUALITY ASSURANCE**

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
  - 1. Single Source Responsibility: Provide and install this work from single fabricator.

**1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Store finish carpentry items under cover, elevated above grade, and in a dry, well-ventilated area not exposed to heat or sunlight.
- B. Protect from moisture damage.

**PART 2 PRODUCTS**

**2.01 FINISH CARPENTRY ITEMS**

**2.02 LUMBER MATERIALS**

- A. Exterior Fence: Running Trim and Rails:
  - 1. Composition Wood for dumpster enclosure and other related fencing.
  - 2. Material Thickness: 5/4 inch
  - 3. Manufacturer:
    - a. Moisture Shield, Product 5/4 inch by 5.4 inch; [www.moisturesheild.com](http://www.moisturesheild.com)
    - b. TimberTech, Product Rela Board; [www.timbertech.com](http://www.timbertech.com)

- c. Epoch Composite Products Inc.
- d. See Section 01 6000 - Product Requirements

### **2.03 FASTENINGS**

- A. Fasteners: Of size and type to suit application; zinc coated finish in concealed locations and stainless steel finish in exposed locations.
- B. Concealed Joint Fasteners: Threaded steel.

### **2.04 WOOD TREATMENT**

- A. Factory-Treated Lumber: Comply with requirements of AWPA U1 - Use Category System for pressure impregnated wood treatments determined by use categories, expected service conditions, and specific applications.
- B. Redry wood after pressure treatment to maximum 19 percent moisture content.

### **2.05 FABRICATION**

- A. Shop assemble work for delivery to site, permitting passage through building openings.
- B. Fit exposed sheet material edges with matching veneer edging. Use one piece for full length only.
- C. Shop prepare and identify components for book match grain matching during site erection.
- D. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

### **2.06 SHOP FINISHING**

- A. General: The prefinishing of interior architectural woodwork is required to be performed at factory as specified in this section
- B. Sand work smooth and set exposed nails and screws.
- C. Apply wood filler in exposed nail and screw indentations.
- D. On items to receive transparent finishes, use wood filler that matches surrounding surfaces and is of type recommended for the applicable finish.
- E. Finish work in accordance with AWI/AWMA/WI (AWS) or AWMA/WI (NAAWS), Section 5 - Finishing for grade specified in Section 09 91 23 - Interior Painting:
- F. Prime paint surfaces in contact with cementitious materials.
- G. Back prime woodwork items to be field finished, prior to installation.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify adequacy of backing and support framing.
- B. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

### **3.02 INSTALLATION**

- A. Set and secure materials and components in place, plumb and level.
- B. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

### **3.03 PREPARATION FOR SITE FINISHING**

- A. Set exposed fasteners. Apply wood filler in exposed fastener indentations. Sand work smooth.

- B. Before installation, prime paint surfaces of items or assemblies to be in contact with cementitious materials.

**END OF SECTION**

**SECTION 23 73 13  
MODULAR AIR-HANDLING UNITS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Coil section.
- B. Packaged Indoor Air Handling Units.
- C. Blower Coil Units

**1.02 RELATED REQUIREMENTS**

- A. Refer to Section 01 6000 - Product Requirements
- B. Commissioning
  - 1. Section 01 9113 - General Commissioning Requirements
  - 2. Section 01 9114 - Commissioning Authority Responsibility
- C. Section 23 0548 - Vibration and Seismic Controls.
- D. Section 23 0719 - HVAC Piping Insulation.
- E. Section 23 2113 - Hydronic Piping
- F. Section 23 2114 - Hydronic Specialties
- G. Section 23 3100 - HVAC Ducts and Casings

**1.03 REFERENCE STANDARDS**

- A. AMCA 99 - Standards Handbook; 2010.
- B. AMCA 210 - Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating; 2016.
- C. AMCA 300 - Reverberant Room Method for Sound Testing of Fans; 2014.
- D. AMCA 301 - Methods for Calculating Fan Sound Ratings from Laboratory Test Data; 2014.
- E. AHRI 410 - Standard for Forced-Circulation Air-Cooling and Air-Heating Coils; Air-Conditioning, Heating, and Refrigeration Institute; 2001 (R2005) .
- F. AHRI 430 - Standard for Central-Station Air-Handling Units; Air-Conditioning, Heating, and Refrigeration Institute; 2009.
- G. ARI Guideline D - Application and Installation of Central Station Air-Handling Units; Air-Conditioning and Refrigeration Institute; 1996.
- H. NEMA MG 00001 - Motors and Generators; 2024.
- I. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- J. SMACNA (DCS) - HVAC Duct Construction Standards Metal and Flexible; 2005.
- K. UL (DIR) - Online Certifications Directory; Current Edition.
- L. ASHRAE Standard 52.2-1999 - Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size (ANSI Approved).
- M. ASHRAE Standard 90.1 - Energy Standard for Buildings Except Low-Rise Residential Buildings.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data:

1. Published Literature: Indicate dimensions, weights, capacities, ratings, gauges and finishes of materials, and electrical characteristics and connection requirements.
  2. Filters: Data for filter media, filter performance data, filter assembly, and filter frames.
  3. Fans: Performance and fan curves with specified operating point clearly plotted, power, RPM.
  4. Sound Power Level Data: Fan outlet and casing radiation at rated capacity.
  5. Electrical Requirements: Power supply wiring including wiring diagrams for interlock and control wiring, clearly indicating factory-installed and field-installed wiring.
- C. Shop Drawings: Indicate assembly, unit dimensions, weight loading, required clearances, construction details, field connection details, and electrical characteristics and connection requirements.
- D. Sound Data: Provide sound data in accordance to AHRI Standard 260, Sound rating of ducted air moving and conditioning equipment
1. Data to be collected in a qualified and accredited reverberant laboratory.
  2. Sound ratings are to be in the form of octave band sound power levels (dB) from 63 to 8,000 Hz derived from one-third octave band measurements.
  3. Data provided must meet or exceed minimum requirements for use within ANSI 12.60-2010 calculations.
- E. Manufacturer's Instructions: Include installation instructions.
- F. Maintenance Data: Include instructions for lubrication, filter replacement, motor and drive replacement, spare parts lists, and wiring diagrams.
- G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
1. See Section 01 60 00 - Product Requirements, for additional provisions.
  2. Extra Filters: One set for each unit.

#### **1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of documented experience.

#### **1.06 REGULATORY REQUIREMENTS**

- A. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified and indicated.
- B. The air handling units may be used for temporary heating.
1. Division 23 Mechanical Contractor shall be responsible for providing and replacing filters in units being used. This contractor shall replace the filters as needed but at a minimum the filters shall be replaced at least every 2 months during construction.

#### **1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Accept products on site in factory-fabricated protective containers, with factory-installed shipping skids and lifting lugs. Inspect for damage.
- B. Store in clean dry place and protect from weather and construction traffic. Handle carefully to avoid damage to components, enclosures, and finish.
- C. Do not operate units until ductwork is clean, filters are in place, bearings lubricated, and fan has been test run under observation.

#### **1.08 EXTRA MATERIALS**

- A. Supply one set of filters for each unit air handling unit at final completion of project.
- B. Provide additional sets of pre-filters as required during construction.
- C. Provide a sheave change so that the fan motor is producing it's full rated horsepower at VFD speed of 100% for all fans controlled by a VFD.

## 1.09 WARRANTY

- A. During first year following issuance of Substantial Completion, unit manufacturer shall guarantee components to be free from defects and failures and shall supply parts required to correct warranty failures. Division 23-Mechanical Contractor shall bear the cost of warranting equipment from the manufacturer's standard warranty to 1 year beyond the date of substantial completion. Mechanical Contractor shall supply labor, cartage, and supplies required to replace failed parts.
- B. The unit manufacturer's serviceman shall provide and complete manufacturer's check/test/start forms. One copy shall be sent to the Engineer and one copy to the manufacturer's factory. Completion of startup and filing of proper forms must be completed before start of warranty period.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS

- A. Carrier Corporation: [www.carrier.com/#sle](http://www.carrier.com/#sle).
- B. Daikin McQuay
- C. Trane Inc: [www.trane.com/#sle](http://www.trane.com/#sle).
- D. Johnson Controls Inc
- E. VTS America Inc
- F. Substitutions: See Section 01 60 00 - Product Requirements.

### 2.02 GENERAL DESCRIPTION

- A. Refer to drawings for unit configuration.

### 2.03 INDOOR UNIT CASING (AHU)

- A. The construction of the air handling unit shall consist of a complete structural frame with removable panels. Casing shall be supported in such a manner so that maximum allowable air leakage shall not exceed 1% and panel deflection shall not exceed a L/240 ratio when subjected to +/- 8 in w.g. static pressure. All panels shall be completely gasketed prior to shipment and shall be completely removable for unit access and removal of components. Removal of any or all panels shall not affect the structural integrity of the unit.
  - 1. Outside Casing:
    - a. Galvanized Steel: 18 gauge.
    - b. Frame Channel: 16 Gauge minimum.
  - 2. Inside Casing:
    - a. Galvanized Steel: Solid 20 gauge.
    - b. The entire fan sections shall have 18 gage perforated sound absorbing galvanized steel plate inner liner.
  - 3. Floor Plate:
    - a. Floor panel shall be double wall construction, designed to provide at most L/240 deflection based on 300lb concentrated load at mid-span. Interior liner of the floor panels shall be 20 gauge galvanized.
    - b. Provide an additional 0.125 inch aluminum diamond tread plate in all access areas.
- B. Insulation: Spray injected foam to thoroughly insulate and seal the air unit structure. All openings in structural channels shall be internally insulated. Insulation shall be a minimum of 2" at all locations. Insulation shall conform to NFPA 90A.
  - 1. R-value: 12.5 hr-ft<sup>2</sup>-F/Btu
- C. Finish: G90 galvanized exceed 250-hr.
- D. Access Doors

1. Access Doors shall be located as shown on drawings. At a minimum, doors shall be located on the fan sections and filter sections.
  2. Doors shall be double wall construction with a solid liner and a minimum thickness of 2 inches with spray foam insulation. Doors shall be continuously hinged and provide 180 degree open door swing. Latches shall be positive-action, creating an airtight seal between the door and unit.
  3. Panels shall be completely gasketed with a closed-cell, neoprene gasket.
  4. All doors are to open against positive pressure.
  5. Access doors in the fan and damper sections shall include a 12"x12" inspection window.
- E. Removable Panels
1. All wall and roof panels shall be completely removable for unit access and removal of components. All panels shall be removable without affecting the structural unit frame. Panels shall be completely gasketed, with a Copolymer rubber sealant ribbon.
- F. Drain Pans:
1. The main coil drain pan shall be double-sloped with a condensate connection on the same side as the coil connection. The pan shall be of stainless steel double-wall construction, with spray foam insulation between walls.
  2. Coils with finned height greater than 48" shall have an intermediate drain channel to drain condensate to the main drain pans without flooding the lower coils or passing condensate through the airstream of the lower coil. The intermediate pans shall have drop tubes to guide condensate to the main drain pan.
- G. Unit Base: The entire unit shall be provided with a full length, continuous, base rail channel. Base rail channels shall be formed of a minimum 16 gauge galvanized steel. All major components shall be supported from the base. Base to be a minimum of 6 inches tall. Integral lifting lugs will be provided to facilitate rigging and installation. Lifting lugs shall be suitable for use as unit tie down points.

## 2.04 MOTORS

- A. Motors shall be heavy duty, premium efficiency, and, where denoted on Drawings, designated for use with a frequency drive controller (VFD) and mounted to the fan assembly. When designated for use with a VFD, the motor shall be inverter duty type, having class F or class H insulation as rated by NEMA, and shall be built in accordance with the standards set forth in NEMA-MG-1 parts 30 and 31.
- B. Overload panel: Factory mounted and wired NEMA type 1 enclosure mounted on the AHU. The panel shall be designed to take one field VFD power input and distribute to 2, 4, or 6 fans as required. These fans shall be protected by manual motor protectors, one per fan. All wiring shall be included. Auxiliary contacts shall be wired in series to terminal block for generic trip signaling. Panel shall be rated for WYE power systems up to 600V.
- C. Motors where indicated on the drawings shall be direct drive.
- D. Motors shall have an adjustable base to permit drive belt tensioning.
- E. Sheaves shall be cast iron, heavy duty type. Vee-belt shall be static free and sized for 150 percent of BHP.
  1. Provide a sheave change so that the fan motor is producing its full rated horsepower at VFD speed of 100% for all fans controlled by a VFD.

## 2.05 FANS

- A. Fans shall be Class I, II, and III, as scheduled, selected to provide the airflow and pressure specified.
- B. Provide fan section with double width, double inlet multi-blade type forward curved fan design or airfoil type as scheduled.

- C. All fans shall bear the AMCA seal.
- D. Mounting: Fan and motor assembly shall be internally isolated from unit casing with spring isolators, bases (refer to Section 23 0548), furnished and installed by unit manufacturer. Fan scroll shall be attached to the unit casing by a flexible canvas duct. Provide spring thrust restraints between fan discharge to plenum wall.
- E. Fans shall be statically and dynamically balanced at the factory as a complete fan assembly across the entire operational range. Fan shafts shall not exceed 75 percent of the first critical speed as unit comes up to critical speed.

## **2.06 BEARINGS AND DRIVES**

- A. Bearings: Heavy duty pillow block type, self-aligning, grease-lubricated ball bearings, with an average life (L50) of at least 200,000 hours.
- B. For internal bearings, provide extended grease lines with zerk fitting rigidly attached to the side of the fan casing for easy service access.
- C. Shafts: Solid, hot rolled steel, ground and polished, with key-way, and protectively coated with lubricating oil.
- D. V-Belt Drive: Cast iron or steel sheaves, dynamically balanced, bored to fit shafts, and keyed. Variable and adjustable pitch sheaves for motors 15 hp and under selected so required rpm is obtained with sheaves set at mid-position; fixed sheave for 20 hp and over, matched belts, and drive rated as recommended by manufacturer or minimum 1.5 times nameplate rating of the motor.
- E. Belt Guard: Fabricate to SMACNA (DCS); 0.106 inch thick, 3/4 inch diamond mesh wire screen welded to steel angle frame or equivalent, prime coated. Secure to fan or fan supports without short circuiting vibration isolation, with provision for adjustment of belt tension, lubrication, and use of tachometer with guard in place.
  - 1. Option: Provide tamper proof key to shut the motor down when door is opened to fan section.

## **2.07 COIL SECTION**

- A. Casing: Provide access to one side of coil. Enclose coil with headers and return bends fully contained within casing. Slide coil into casing through removable end panel with blank off sheets and sealing collars at connection penetrations.
- B. Drain Pan: Stainless steel construction. 24 inch downstream of coil and down spouts for cooling coil banks more than one coil high.
- C. Air Coil: Certify capacities, pressure drops, and selection procedures in accordance with ARI 410.
- D. Fabrication:
  - 1. Coil shall be designed with aluminum plate fins and copper tubes.
  - 2. Fins shall have collars drawn, belled, and firmly bonded to the tubes.
  - 3. Coil shall be mounted in the unit casing to be accessible for service.
  - 4. Coil casings shall be constructed of 16 gauge galvanized steel. Complete coil and coil headers, connections, and return bends shall be tested at 300 psi under water.
  - 5. Configuration: Drainable, with threaded plugs for drain and vent; serpentine type with return bends on smaller sizes and return headers on larger sizes.
  - 6. Tubes: 5/8 inch OD seamless copper expanded into fins, brazed joints.
  - 7. Fins: Aluminum.
  - 8. Casing: Die formed channel frame of galvanized steel.
- E. Water Coils:
  - 1. Headers: Cast iron, seamless copper tube, or prime coated steel pipe with brazed joints.

2. Configuration: Drainable, with threaded plugs for drain and vent; threaded plugs in return bends and in headers opposite each tube.

## **2.08 ACCESS SECTION**

- A. Access section shall be provided where denoted on Drawings.
- B. Shall be sized as denoted on Drawings. Minimum size shall be 18" section.
- C. Shall include a removable access door.

## **2.09 MIXING BOX SECTION**

- A. Mixing box section shall be provided with connections as denoted on Drawings.
- B. The mixing box section shall be provided without dampers.
- C. External dampers as noted on the drawings shall be provided by the Temperature Control Contractor and installed by the sheet metal contractor.

## **2.10 AIR BLENDER SECTION**

- A. Air blender sections shall be provided where denoted on Drawings.
- B. An air blender section shall be provided to mix outside and return air, minimize stratification, and reduce the risk of frozen coils. Mixer panels shall be sized and installed in the unit with adequate distances upstream and downstream to ensure a minimum mixing effectiveness of 70% at 25%, outside air, one mixer diameter downstream of the mixer.

## **2.11 FILTERS**

- A. Frames shall be constructed from 16 gauge galvanized steel, one frame for prefilter system and one frame for primary filter system. Frames shall be sized to fit the filter size specified.
- B. Filter rack assembly shall allow side loading filter installation.
- C. Prefilters are to be mounted on the entering air face of the filter bank.
- D. High Efficiency Primary Filter:
  1. The filter shall have a Minimum Efficiency Reporting Value of MERV 13 per ASHRAE Standard 52.2-2007. It shall have a MERV-A of 13 when tested under Appendix J of that standard.
  2. Initial resistance to airflow shall not exceed 0.41"w.g. at an airflow of 500 fpm for filters having a nominal depth of 12".
  3. Air filters shall consist of high density microfine glass fibers laminated to a reinforcing backing to form a lofted filter blanket.
  4. Filters shall incorporate a "pleat" type design which creates a wide space between adjacent pleats on the air leaving side.
  5. A wire grid shall be bonded to the air leaving side of the media to support the media.
  6. The media shall be bonded to the inside of the frame, forming a totally unitized construction and a positive seal against leakage of unfiltered air.
  7. The enclosing frame shall be constructed of galvanized steel with diagonal supports.
  8. Filters shall be 12 inches deep rigid and equal to FARR RIGA-FLO 15. Other acceptable manufacturer's include 3M, Airguard, Filtrete, and American Air filter.
- E. Medium Efficiency Prefilter:
  1. The filter shall be medium efficiency and have a Minimum Efficiency Reporting Value of MERV 8 when evaluated under the guidelines of ASHRAE Standard 52.2-2007. It shall also have a MERV-A of 8 when tested per Appendix J of the same standard. The media shall maintain or increase in efficiency over the life of the filter.
  2. Initial resistance to airflow shall not exceed 0.31"w.g. at an airflow of 500 fpm on 2" deep models respectively.

3. Filter media shall be a cotton and synthetic blend, lofted to a uniform depth of 0.15", and formed into a uniform radial pleat. The prefilter shall be 2 inches thick of the proper size for each extended surface filter.
  4. A welded wire grid, spot-welded on one-inch centers and treated for corrosion resistance shall be bonded to the downstream side of the media to maintain radial pleats and prevent media oscillation.
  5. An enclosing frame of no less than 28-point high wet-strength beverage board shall provide a rigid and durable enclosure. The frame shall be bonded to the media on all sides to prevent air bypass. Integral diagonal support members on the air entering and air exiting side shall be bonded to the apex of each pleat to maintain uniform pleat spacing in varying airflows.
  6. The prefilters shall be installed in the holding frames without increasing the overall depth of the bank.
  7. Filters shall be equal to FARR 30/30 Class 2. Other acceptable manufacturer's include 3M, Airguard, Filtrete, and American Air filter.
- F. Prefilters shall be installed for use during construction. The filters shall be changed as needed or at a minimum every two months and changed at time of Substantial Completion. Primary filters shall not be installed until time of Substantial Completion. All filters shall be the responsibility of the mechanical contractor.

## **2.12 DAMPERS**

- A. Provide internal dampers as indicated on the Drawings. Unit manufacturer shall size dampers per industry standards with a minimum air velocity through dampers of 1200 FPM.
- B. Dampers shall be double-skin airfoil design for minimal air leakage and pressure drop. Dampers shall be low-leak type, with leakage rate not to exceed 5 CFM/SF at 1 inch w.g. and 9 CFM/SF at 4 inch w.g. All leakage testing and pressure ratings shall be based on AMCA Publication 500. Manufacturer shall submit brand and model of damper(s) being furnished.
- C. Provide internal dampers to allow air-bypass around the energy recovery wheel. Unit manufacturer shall size dampers per industry standards with a minimum air velocity through dampers of 1200 FPM.

## **2.13 CONTROL PANEL AND POWER DISCONNECTS**

- A. Temperature control devices shall be supplied, mounted, and wired by Temperature Control Contractor unless otherwise herein specified.
- B. Disconnects shall be supplied, mounted, and wired by the Division 26-Electrical Contractor for modular air handlers unless herein specified.
- C. Blower coil units (BCU) shall be supplied with control enclosure constructed of same material as unit casing.

## **2.14 LIGHTS AND RECEPTACLES**

- A. Lights & GFI Receptacle - Vapor tight lights shall be provided in access compartments as shown on the General Arrangement drawing. Lights shall be wired to a single switch on the unit exterior. A GFI receptacle shall be mounted next to the light switch. A separate 120 volt power connection shall be required at the GFI receptacle to provide power for the lights and receptacle.

## **PART 3 EXECUTION**

### **3.01 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Bolt sections together with gaskets.
- C. Isolate fan section from supply duct connection with flexible duct connections.

- D. Install flexible duct connections between fan outlet and discharge ductwork.
- E. Make connections to coils with unions or flanges.
- F. Hydronic Coil:
  - 1. Pipe coil as shown on drawings.
  - 2. Ensure water coil is drainable and provide drain connection at low point.
- G. Startup and training shall be provided by factory-trained service technician.
- H. Prefilters shall be installed for use during construction and changed by Contractor at time of Substantial Completion. Primary filters shall not be installed until time of Substantial Completion.

### **3.02 STARTUP**

- A. Startup and owner training shall be provided by factory trained service technician.
- B. All training shall be video taped by the Division 23 Mechanical Contractor. Two copies shall be turned over to the owner's maintenance staff.

**END OF SECTION**

**SECTION 26 05 03  
WORK IN EXISTING BUILDINGS**

**PART 1 GENERAL**

**1.01 RELATED DOCUMENTS**

- A. The provisions of the General Conditions, Supplementary Conditions, and the Sections included under Division 1, General Requirements, and of Section 26 01 01 - GENERAL PROVISIONS , are included as a part of this Section as though bound herein.

**1.02 SUMMARY**

- A. During phasing of the Work and General Construction Schedule, all existing systems, including power, lighting, fire alarm, telephone system, public address system (intercom system), etc., shall be maintained in operation, even if it requires temporary relocation, until the new work and new system is completed and operational; at which time the old work is to be removed.
- B. This Contractor shall examine the existing site and familiarize himself with the existing conditions that will in any manner affect his work under this contract and include these conditions and required work in his bid.
- C. General - Electrical fixtures, devices, panelboards, and other items of electrical equipment located in remodeled portions of the existing building which become obsolete or are shown to be removed, shall be disconnected and removed by the Contractor. Where existing work is removed, remove associated wiring, terminations, and obsolete exposed and interfering conduit and work.
- D. Remaining lights, switches, receptacles, motors, etc., not disturbed in the remodeling shall be checked for proper operation, and circuits opened by the remodeling work shall be properly reconnected.
- E. Contractor shall be responsible for cutting and patching of existing walls, floors, and ceilings required for the installation of electrical work in the remodeled portions of the existing building. Openings shall be neatly drilled or cut.
- F. Patching shall be performed by a workman skilled in the trade involved, and patch work shall match the existing surface and finish in a manner acceptable to the Architect.
- G. Electrical work to installed in finished rooms of the existing building shall be installed in a concealed manner.
- H. Painting of patched work in the existing building will be the responsibility of this Contractor.
- I. Install necessary conduit and wiring for panelboards, outlets, and any other equipment, as indicated on the Drawings and as specified to be installed in the existing building.

**END OF SECTION**

**SECTION 26 05 05  
MINOR ELECTRICAL DEMOLITION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Electrical demolition.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 70 00 - Execution and Closeout Requirements: Additional requirements for alterations work.
- B. Section 02 41 00 - Demolition.

**PART 2 PRODUCTS**

**2.01 MATERIALS AND EQUIPMENT**

- A. Materials and equipment for patching and extending work: As specified in individual sections.

**PART 3 EXECUTION**

**3.01 EXAMINATION**

- A. Verify field measurements and circuiting arrangements are as indicated.
- B. Verify that abandoned wiring and equipment serve only abandoned facilities.
- C. Demolition drawings are based on casual field observation.
- D. Report discrepancies to Garmann / Miller & Associates Inc. before disturbing existing installation.
- E. Beginning of demolition means installer accepts existing conditions.

**3.02 PREPARATION**

- A. Disconnect electrical systems in walls, floors, and ceilings to be removed.
- B. Coordinate utility service outages with utility company. It is the Electrical Contractor's responsibility to provide all site electrical disconnections required for demolition. Coordinate this work with the General Contractor.
- C. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits, use personnel experienced in such operations.
- D. Existing Electrical Service: Maintain existing system in service until new system is complete and ready for service. Disable system only to make switchovers and connections. Minimize outage duration.
  - 1. Contractor shall provide a temporary generator to keep electric service operational during utility switchover.
  - 2. Obtain permission from Owner at least 24 hours before partially or completely disabling system.
  - 3. Make temporary connections to maintain service in areas adjacent to work area.

**3.03 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK**

- A. Remove, relocate, and extend existing installations to accommodate new construction.
- B. Remove abandoned wiring to source of supply.
- C. Remove any abandoned wire/cable found above ceiling that is not labeled for future use.
- D. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.

- E. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is abandoned and removed. Provide blank cover for abandoned outlets that are not removed.
- F. Disconnect and remove abandoned panelboards and distribution equipment.
- G. Disconnect and remove electrical devices and equipment serving utilization equipment that has been removed.
- H. Disconnect and remove abandoned luminaires. Remove brackets, stems, hangers, and other accessories.
- I. Repair adjacent construction and finishes damaged during demolition and extension work.
- J. Maintain access to existing electrical installations that remain active. Modify installation or provide access panel as appropriate.
- K. Extend existing installations using materials and methods compatible with existing electrical installations, or as specified.

### **3.04 CLEANING AND REPAIR**

- A. Clean and repair existing materials and equipment that remain or that are to be reused.
- B. Panelboards: Clean exposed surfaces and check tightness of electrical connections. Replace damaged circuit breakers and provide closure plates for vacant positions. Provide typed circuit directory showing revised circuiting arrangement.

**END OF SECTION**

## **SECTION 26 22 00 TRANSFORMERS**

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. General purpose transformers.

#### **1.02 RELATED REQUIREMENTS**

- A. Section 03 30 00 - Cast-in-Place Concrete: Concrete equipment pads.
- B. Section 26 05 26 - Grounding and Bonding for Electrical Systems.
- C. Section 26 05 29 - HANGERS AND SUPPORTS.
- D. Section 26 05 33.13 - CONDUIT: Flexible conduit connections.
- E. Section 26 05 33.13 - CONDUIT: Flexible conduit connections.

#### **1.03 REFERENCE STANDARDS**

- A. 10 CFR 431, Subpart K - Energy Efficiency Program for Certain Commercial and Industrial Equipment - Distribution Transformers; Current Edition.
- B. IEEE C57.94 - IEEE Recommended Practice for Installation, Application, Operation, and Maintenance of Dry-Type General Purpose Distribution and Power Transformers; 1982 (R2006).
- C. IEEE C57.96 - IEEE Standard Guide for Loading Dry-Type Distribution and Power Transformers; 2013.
- D. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2010.
- E. NECA 409 - Standard for Installing and Maintaining Dry-Type Transformers; 2015.
- F. NEMA ST 1 - Specialty Transformers (Except General Purpose Type); National Electrical Manufacturers Association; 1988 (R1997).
- G. NEMA EN 10250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2024.
- H. NEMA ST 20 - Dry-Type Transformers for General Applications; 2014.
- I. NETA ATS - Acceptance Testing Specifications for Electrical Power Equipment and Systems; 2013.
- J. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- K. UL 506 - Standard for Specialty Transformers; Current Edition, Including All Revisions.
- L. UL 1561 - Standard for Dry-Type General Purpose and Power Transformers; Current Edition, Including All Revisions.

#### **1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements.
- B. Product Data: Provide outline and support point dimensions of enclosures and accessories, unit weight, voltage, kVA, and impedance ratings and characteristics, tap configurations, insulation system type, and rated temperature rise.
- C. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.
- D. Maintenance Data: Include recommended maintenance procedures and intervals.
- E. Project Record Documents: Record actual locations of transformers.

### **1.05 QUALITY ASSURANCE**

- A. Comply with requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Products: Listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.

### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Store in a clean, dry space. Maintain factory wrapping or provide an additional heavy canvas or heavy plastic cover to protect units from dirt, water, construction debris, and traffic.
- B. Handle in accordance with manufacturer's written instructions. Lift only with lugs provided for the purpose. Handle carefully to avoid damage to transformer internal components, enclosure, and finish.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Siemens
- B. Square D
- C. General Electric
- D. Eaton
- E. Substitutions: See Section 01 60 00 - Product Requirements .

### **2.02 TRANSFORMERS - GENERAL REQUIREMENTS**

- A. Description: Factory-assembled, dry type transformers for 60 Hz operation designed and manufactured in accordance with NEMA ST 20 and listed, classified, and labeled as suitable for the purpose intended.
- B. Unless noted otherwise, transformer ratings indicated are for continuous loading according to IEEE C57.96 under the following service conditions:
  - 1. Altitude: Less than 3,300 feet.
  - 2. Ambient Temperature:
    - a. Greater than 10 kVA: Not exceeding 104 degrees F.
    - b. Less than 10 kVA: Not exceeding 77 degrees F.
- C. Core: High grade, non-aging silicon steel with high magnetic permeability and low hysteresis and eddy current losses. Keep magnetic flux densities substantially below saturation point, even at 10 percent primary overvoltage. Tightly clamp core laminations to prevent plate movement and maintain consistent pressure throughout core length.
- D. Impregnate core and coil assembly with non-hydroscopic thermo-setting varnish to effectively seal out moisture and other contaminants.
- E. Basic Impulse Level: 10 kV.
- F. Ground core and coil assembly to enclosure by means of a visible flexible copper grounding strap.
- G. Isolate core and coil from enclosure using vibration-absorbing mounts.
- H. Nameplate: Include transformer connection data, ratings, wiring diagrams, and overload capacity based on rated winding temperature rise.

### **2.03 GENERAL PURPOSE TRANSFORMERS**

- A. Description: Self-cooled, two winding transformers listed and labeled as complying with UL 506 or UL 1561; ratings as indicated on the drawings.

- B. Insulation System and Allowable Average Winding Temperature Rise:
  - 1. Less than 15 kVA: Class 180 degrees C insulation system with 115 degrees C average winding temperature rise.
  - 2. 15 kVA and Larger: Class 220 degrees C insulation system with 150 degrees C average winding temperature rise.
- C. Coil Conductors: Continuous aluminum windings with terminations brazed or welded.
- D. Winding Taps:
  - 1. Less than 3 kVA: None.
  - 2. 3 kVA through 15 kVA: Two 5 percent full capacity primary taps below rated voltage.
  - 3. 15 kVA through 300 kVA: Two 2.5 percent full capacity primary taps above and four 2.5 percent full capacity primary taps below rated voltage.
  - 4. 500 kVA and Larger: Two 2.5 percent full capacity primary taps above and two 2.5 percent full capacity primary taps below rated voltage.
- E. Energy Efficiency: Comply with 10 CFR 431, Subpart K.
- F. Sound Levels: Standard sound levels complying with NEMA ST 20
- G. Mounting Provisions:
  - 1. Less than 15 kVA: Suitable for wall mounting.
  - 2. 15 kVA through 75 kVA: Suitable for wall, floor, or trapeze mounting.
  - 3. Larger than 75 kVA: Suitable for floor mounting.
- H. Transformer Enclosure: Comply with NEMA ST 20.
  - 1. Environment Type per NEMA EN 10250: Unless otherwise indicated, as specified for the following installation locations:
    - a. Outdoor locations: Type 3R.
  - 2. Construction: Steel.
    - a. Less than 15 kVA: Totally enclosed, non-ventilated.
    - b. 15 kVA and Larger: Ventilated.
  - 3. Finish: Manufacturer's standard grey, suitable for outdoor installations.
  - 4. Provide lifting eyes or brackets.
- I. Description: NEMA ST 20, factory-assembled, air cooled dry type transformers , ratings as indicated.
- J. Primary Voltage: 208/120 volts, 3 phase .
- K. Secondary Voltage: 240/120 volts, 3 phase.
  - 1. 1-15 kVA: Class 185 with 115 degrees C rise.
  - 2. 16-500 kVA: Class 220 with 150 degrees C rise.
- L. Case Temperature: Do not exceed 35 degrees C rise above ambient at warmest point at full load.
  - 1. Transformers Less than 15 kVA: Two 5 percent below rated voltage, full capacity taps on primary winding.
  - 2. Transformers 15 kVA and Larger: NEMA ST 20.
- M. Sound Levels: NEMA ST 20.
- N. Basic Impulse Level: 10 kV.
- O. Ground core and coil assembly to enclosure by means of a visible flexible copper grounding strap.
  - 1. 1-15 kVA: Suitable for wall mounting.
  - 2. 16-75 kVA: Suitable for wall mounting.
  - 3. Larger than 75 kVA: Suitable for floor mounting.
- P. Coil Conductors: Continuous windings with terminations brazed or welded.

1. Type 1.
  2. Ventilated.
  3. Provide lifting eyes or brackets.
- Q. Isolate core and coil from enclosure using vibration-absorbing mounts.
- R. Nameplate: Include transformer connection data and overload capacity based on rated allowable temperature rise.

#### **2.04 SOURCE QUALITY CONTROL**

- A. Factory test transformers according to NEMA ST 20.
- B. Production test each unit according to NEMA ST 20.

### **PART 3 EXECUTION**

#### **3.01 INSTALLATION**

- A. Perform work in accordance with NECA 1 (general workmanship).
- B. Install products in accordance with manufacturer's instructions.
- C. Install transformers in accordance with NECA 409 and IEEE C57.94.
- D. Use flexible conduit, under the provisions of Section 26 05 33.13, 2 feet minimum length, for connections to transformer case. Make conduit connections to side panel of enclosure.
- E. Arrange equipment to provide minimum clearances as specified on transformer nameplate and in accordance with manufacturer's instructions and NFPA 70.
- F. Install transformers plumb and level.
- G. Transformer Support:
  1. Provide required support and attachment in accordance with Section 26 05 29, where not furnished by transformer manufacturer.
  2. Use integral transformer flanges, accessory brackets furnished by manufacturer, or field-fabricated supports to support wall-mounted transformers.
  3. Unless otherwise indicated, mount floor-mounted transformers on properly sized 3 inch high concrete pad constructed in accordance with Section 03 30 00.
- H. Set transformers plumb and level.
- I. Use flexible conduit, under the provisions of Section 26 05 33.13, 2 feet minimum length, for connections to transformer case. Make conduit connections to side panel of enclosure.
- J. Mount wall-mounted transformers using integral flanges or accessory brackets furnished by the manufacturer.
- K. Mount floor-mounted transformers on vibration isolating pads suitable for isolating the transformer noise from the building structure.
- L. Mount trapeze-mounted transformers as indicated.
- M. Provide seismic restraints.
- N. Provide grounding and bonding in accordance with Section 26 05 26.
- O. Remove shipping braces and adjust bolts that attach the core and coil mounting bracket to the enclosure according to manufacturer's recommendations in order to reduce audible noise transmission.
- P. Where not factory-installed, install lugs sized as required for termination of conductors as indicated.

#### **3.02 FIELD QUALITY CONTROL**

- A. See Section 01 43 00 - Quality Assurance, for additional requirements.

- B. Inspect and test in accordance with NETA STD ATS, except Section 4.
- C. Perform inspections and tests listed in NETA STD ATS, Section 7.2.1.1. In addition to the basic requirements of Section 7.2, include the following:
  - 1. Perform turns ratio tests at all tap positions.
  - 2. Verification that as-left tap connections are as specified.
  - 3. Perform excitation-current tests on each phase.
  - 4. Measure the resistance of each winding at each tap connection.
  - 5. Overpotential test on all high- and low-voltage windings-to-ground.

**3.03 ADJUSTING**

- A. Measure primary and secondary voltages and make appropriate tap adjustments.
- B. Adjust tightness of mechanical and electrical connections to manufacturer's recommended torque settings.

**3.04 CLEANING**

- A. Clean dirt and debris from transformer components according to manufacturer's instructions.
- B. Repair scratched or marred exterior surfaces to match original factory finish.

**END OF SECTION**

**SECTION 26 32 14  
STANDBY GENERATOR RELOCATION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Gas-engine generator assembly.
- B. Gas engine.
- C. Gas fuel system.
- D. Control and monitoring.

**1.02 REFERENCE STANDARDS**

- A. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- B. NFPA 110 - Standard for Emergency and Standby Power Systems; 2013.

**1.03 RELATED REQUIREMENTS**

- A. Section 26 05 19 - CONDUCTORS
- B. Section 26 05 26 - GROUNDING AND BONDING
- C. Section 26 05 33.13 - CONDUIT
- D. Section 26 05 50 - BASIC MATERIALS AND METHODS

**1.04 SUMMARY**

- A. The Contractor shall furnish the equipment, accessories, and necessary material for an existing generator relocation as indicated on the Drawings and described herein.
  - 1. The existing 60 kW, 240V, 1Ø, Kohler 60REZGB standby generator and associated LP tank shall be relocated to new location shown on the Drawings. Rehlko (Kohler) shall provide generator system start up.

**1.05 DEFINITIONS**

- A. ECM: Engine control module.
- B. EPS: Emergency power supply.
- C. EPSS: Emergency power supply system.
- D. LP: Liquid propane.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. Kohler - 60REZGB (Existing)

**2.02 EXISTING ENGINE GENERATOR ASSEMBLY DESCRIPTION**

- A. Power Rating: Standby.
- B. Nameplate Rating/ Fuel Type: As indicated on drawings, Liquid Propane.
- C. Power Factor: 1.0.
- D. Frequency: 60 Hz.
- E. Voltage: 120/240V AC.
- F. Phase: Single-phase, three wire.

**2.03 GAS FUEL SYSTEM**

- A. Fueled by Liquid Propane

## **2.04 CONTROL AND MONITORING**

- A. Automatic Starting System Sequence of Operation: When mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic transfer switches initiate starting and stopping of engine generator. When mode-selector switch is switched to the on position, engine generator starts. The off position of same switch initiates generator-set shutdown. When engine generator is running, specified system or equipment failures or derangements automatically shut down engine generator and initiate alarms.
- B. Comply with UL 6200.
- C. Configuration:
  - 1. Operating and safety indications, protective devices, basic system controls, and engine gauges will be grouped in a common control and monitoring panel mounted on the engine generator. Mounting method will isolate the control panel from generator-set vibration. Panel will be powered from the engine generator battery.
- D. Supporting Items: Sensors, transducers, terminals, relays, and other devices located on engine or generator unless otherwise indicated.
- E. Remote Emergency-Stop Switch: Wall mounted unless otherwise indicated. Push button must be permanently labeled and protected from accidental operation. Coordinate connection to relocated generator system with manufacturer.
- F. Remote Alarm Annunciator: LED indicator light labeled with proper alarm conditions will identify each alarm event, and a common audible signal will sound for each alarm condition in accordance with NFPA 110. Silencing switch in face of panel will silence signal without altering visual indication. Connect so that after an alarm is silenced, clearing of initiating condition will reactivate alarm until silencing switch is reset. Controls to include "Lamp Test" momentary switch wired to illuminate all LED indicator lights regardless of alarm state while switch is on. Cabinet and faceplate are surface- or flush-mounting type to suit mounting conditions indicated.
- G. Start Signal Wiring Integrity Monitor: UL-listed modular system to monitor condition of generator remote start circuit(s), annunciate faults, and start generator in accordance with NFPA 70, Article 700.10(D)(4).
  - 1. Output Contacts: Two form "C" contacts, one for engine start and one for start circuit alarm.

## **2.05 GENERATOR OVERCURRENT AND FAULT PROTECTION**

- A. Overcurrent protective devices will be coordinated to optimize selective tripping when a short circuit occurs.
- B. Generator Overcurrent Protective Device:
  - 1. Existing 250 Amp Molded-case circuit breaker.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Examine areas, equipment bases, and conditions, with Installer present, for compliance with requirements for installation and other conditions affecting packaged engine generator performance.
- B. Examine roughing-in for piping systems and electrical connections. Verify actual locations of connections before packaged engine generator installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.02 INSTALLATION**

- A. Comply with NECA 1 and NECA 404.

- B. Equipment Mounting:
  1. Install engine generators on cast-in-place concrete equipment bases. Comply with requirements for equipment bases and foundations specified in Section 03 30 00 - Cast-in-Place Concrete.
  2. Coordinate size and location of concrete bases for engine generators. Pad shall be a minimum of 4" larger than the generator base on each side, 4" above finish grade. See drawings for additional specifications. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified with concrete.
- C. Install packaged engine generator to provide access, without removing connections or accessories, for periodic maintenance.
- D. Electrical Wiring: Install electrical devices furnished by equipment manufacturers but not specified to be factory mounted.

### 3.03 CONNECTIONS

- A. Connect fuel, cooling-system, and exhaust-system piping adjacent to packaged engine generator to allow service and maintenance.
- B. Ground equipment in accordance with NFPA 70, Section 26 05 26 - GROUNDING AND BONDING.
- C. Connect wiring in accordance with Section 26 05 19 - CONDUCTORS. Provide flexible conduit routed to the engine generator from a stationary element.
- D. Balance single-phase loads to obtain a maximum of 10 percent unbalance between any two phases.

### 3.04 IDENTIFICATION

- A. Identify system components in accordance with Section 26 05 53 - IDENTIFICATION.
- B. Install a sign indicating the generator is installed as a separately derived source per NFPA 70.

### 3.05 FIELD QUALITY CONTROL

- A. Components, other than the emergency stop button, are existing. Non-functioning component issues shall be brought to the attention of the engineer for replacement consideration. No parts shall be replaced before gaining prior approval.
- B. Tests and Inspections:
  1. NFPA 110: Perform tests required by NFPA 110 that are additional to those specified here, including, but not limited to, single-step full-load pickup test.
  2. Battery Tests: Equalize charging of battery cells. Record individual cell voltages.
    - a. Measure charging voltage and voltages between available battery terminals for full-charging and float-charging conditions. Check electrolyte level and specific gravity under both conditions.
    - b. Test for contact integrity of all connectors. Perform an integrity load test and a capacity load test for the battery.
    - c. Verify acceptance of charge for each element of the battery after discharge.
    - d. Verify that measurements are within manufacturer's specifications.
  3. Battery-Charger Tests: Verify specified rates of charge for both equalizing and float-charging conditions.
  4. System Integrity Tests: Methodically verify proper installation, connection, and integrity of each element of engine generator system before and during system operation. Check for air, exhaust, and fluid leaks.
- C. Coordinate tests with tests for transfer switches and run them concurrently.
- D. Leak Test: After installation, inspect exhaust, coolant, and fuel systems and test for leaks. Repair leaks and retest until no leaks exist.

- E. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation for generator and associated equipment.
- F. Test and adjust controls and safeties.
- G. Retest: Correct deficiencies identified by tests and observations and retest until specified requirements are met.
- H. Report results of tests and inspections in writing. Record adjustable relay settings and measured insulation resistances, time delays, and other values and observations. Attach a label or tag to each tested component indicating satisfactory completion of tests.

**3.06 DEMONSTRATION**

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain packaged engine generators.

**END OF SECTION**

**SECTION 26 36 00**  
**STANDBY TRANSFER SWITCH RELOCATION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Transfer switches for low-voltage (600 V and less) applications and associated accessories:
  - 1. Automatic transfer switches.
  - 2. Remote annunciators.
  - 3. Transfer switch accessories.
- B. Automatic Transfer Switch.

**1.02 RELATED REQUIREMENTS**

- A. Section 03 30 00 - Cast-in-Place Concrete: Concrete equipment pads.
- B. Section 26 05 19 - CONDUCTORS.
- C. Section 26 05 26 - Grounding and Bonding for Electrical Systems.
- D. Section 26 05 29 - HANGERS AND SUPPORTS.
- E. Section 26 05 33.16 - BOXES.
- F. Section 26 05 53 - IDENTIFICATION: Identification products and requirements.

**1.03 REFERENCE STANDARDS**

- A. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- B. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2010.
- C. NEMA ICS 1 - Industrial Control and Systems General Requirements; 2005 (R2008).
- D. NEMA IA 10042-1 - Industrial Control and Systems Part 1: Electromechanical AC Transfer Switch Equipment; 2025.
- E. NETA ATS - Acceptance Testing Specifications for Electrical Power Equipment and Systems; 2013.
- F. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- G. NFPA 110 - Standard for Emergency and Standby Power Systems; 2013.
- H. UL 869A - Reference Standard for Service Equipment; Current Edition, Including All Revisions.
- I. UL 1008 - Transfer Switch Equipment; Current Edition, Including All Revisions.

**1.04 DEFINITIONS**

- A. Automatic Transfer Switch (ATS): Device in which a controller manages the entire process, and initiation begins when the controller senses a loss of the primary source. The controller monitors the source voltage and sends a command to the generators to run when the voltage falls below a preset limit for a prescribed period. The controller also monitors the secondary source voltage and frequency, and when these values are within acceptable limits, the switch transfers the load from the primary to the secondary source. When the primary source is reestablished for a prescribed period to ensure stability, the switch may automatically transfer the load back to the primary source. Most critical and life-safety loads require automatic operation as defined by the NEC.
- B. Contactor type switching mechanism: Contactors are constructed as an electrically controlled, double-throw switch where a solenoid mechanism opens one set of power contacts while closing a second set.

- C. Enclosures: The following are UL 50 definitions of enclosure types listed in order of protection from least hazardous to most severe conditions.
  - 1. Type 1: Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt.

### **1.05 QUALITY ASSURANCE**

- A. Comply with the following:
  - 1. NFPA 70 (National Electrical Code).
  - 2. NFPA 110 (Standard for Emergency and Standby Power Systems); meet requirements for system Level specified in Section 26 32 13.
- B. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.
- C. Products: Listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Kohler (Existing)

### **2.02 PERFORMANCE REQUIREMENTS**

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NEMA ICS 1.
- C. Comply with NFPA 110.
- D. Comply with UL 1008 unless requirements of these Specifications are stricter.
- E. Comply with International Building Code ICC (IBC) Seismic Certification.

### **2.03 TRANSFER SWITCHES**

- A. Relocate existing transfer system consisting of all required equipment, conduit, boxes, wiring, supports, accessories, system programming, etc. as necessary for a complete operating system that provides the functional intent indicated.
- B. Provide products listed, classified, and labeled as suitable for the purpose intended.
- C. Comply with NEMA IA 10042-1, and list and label as complying with UL 1008 for the classification of the intended application (e.g. emergency, optional standby).

### **2.04 STANDARD (OPEN) TRANSITION, CONTACTOR-TYPE TRANSFER SWITCH**

- A. Description: NEMA IA 10042-1, automatic transfer switch .
- B. Transfer controlled by in-phase monitor and sensors actively monitoring and confirming that both normal and emergency sources are present and acceptable.
- C. Voltage Rating: 120/240V.
- D. Amperage Rating: as indicated on the Drawings.
- E. Frequency Rating: 60 Hz.
- F. Sequence of Operation: Switch position is selected by control switch mounted in switch cover.

### **2.05 TRANSFER SWITCH ACCESSORIES**

- A. Remote Annunciator System:

1. Functional Description: Relocated remote annunciator panel to annunciate conditions for indicated transfer switches.
2. Annunciation panel display to include the following indicators:
  - a. Sources available, as defined by actual pickup and dropout settings of transfer-switch controls.
  - b. Switch position.
  - c. Switch in test mode.
  - d. Failure of communication link.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify that field measurements are as indicated.
- B. Verify that the ratings and configurations of existing transfer switch is consistent with the indicated requirements.
- C. Verify that rough-ins for field connections are in the proper locations.
- D. Verify that mounting surfaces are ready to receive transfer switches.
- E. Verify that conditions are satisfactory for installation prior to starting work.

#### **3.02 INSTALLATION**

- A. Perform work in accordance with NECA 1 (general workmanship).
- B. Install products in accordance with manufacturer's instructions.
- C. Provide engraved plastic nameplates under the provisions of Section 26 05 53 - IDENTIFICATION.
- D. Set field-adjustable intervals and delays, relays, and engine exerciser clock.
- E. Arrange equipment to provide minimum clearances and required maintenance access.
- F. Provide required support and attachment in accordance with Section 26 05 29 - HANGERS AND SUPPORTS.
- G. Install transfer switches plumb and level.
- H. Unless otherwise indicated, mount floor-mounted transfer switches on properly sized 3 inch high concrete pad constructed in accordance with Section 03 30 00 - Cast-in-Place Concrete.
- I. Provide grounding and bonding in accordance with Section 26 05 26 - GROUNDING AND BONDING.

#### **3.03 CONNECTIONS**

- A. Wiring Method: Install cables in raceways and cable trays except within electrical enclosures. Conceal raceway and cables except in unfinished spaces.
  1. Comply with requirements for raceways and boxes specified in Sections 26 05 33.13 - CONDUIT and 26 05 33.16 - BOXES.
- B. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radius.
- C. Ground equipment in accordance with Section 26 05 26 - GROUNDING AND BONDING.
- D. Connect wiring in accordance with Section 26 05 19 - CONDUCTORS.
- E. Connect twisted pair cable in accordance with Section 27 15 13 - HORIZONTAL COMMUNICATIONS CABLING.

#### **3.04 FIELD QUALITY CONTROL**

- A. See Section 01 43 00 - Quality Assurance, for additional requirements.

- B. Prepare and start system in accordance with manufacturer's instructions.
- C. Tests and Inspections:
  - 1. Perform insulation-resistance tests on all control wiring with respect to ground.
    - a. Perform insulation-resistance tests on all control wiring with respect to ground.
    - b. Perform a contact/pole-resistance test. Compare measured values with manufacturer's acceptable values.
    - c. Verify settings and operation of control devices.
    - d. Calibrate and set all relays and timers.
    - e. Verify phase rotation, phasing, and synchronized operation.
    - f. Perform automatic transfer tests.
    - g. Verify correct operation and timing of the following functions:
      - 1) Normal source voltage-sensing and frequency-sensing relays.
      - 2) Engine start sequence.
      - 3) Time delay on transfer.
      - 4) Alternative source voltage-sensing and frequency-sensing relays.
      - 5) Automatic transfer operation.
      - 6) Interlocks and limit switch function.
      - 7) Time delay and retransfer on normal power restoration.
      - 8) Engine cool-down and shutdown feature.
- D. Coordinate tests with tests of generator and run them concurrently.
- E. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.
- F. Inspect and test in accordance with NETA STD ATS, except Section 4.
- G. Perform inspections and tests listed in NETA STD ATS, Section 7.22.3.

### **3.05 CLEANING**

- A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

### **3.06 CLOSEOUT ACTIVITIES**

- A. See Section 01 78 00 - Closeout Submittals, for closeout submittals.
- B. Demonstrate operation of transfer switch in normal and emergency modes.

**END OF SECTION**

**SECTION 27 41 19  
VIDEO DISPLAY EQUIPMENT**

**PART 1 GENERAL**

**1.01 RELATED SECTIONS**

- A. The provisions of the General Conditions, Supplementary Conditions and the Sections included under Division 1, General Requirements are included as a part of this Section as though bound herein.

**1.02 SECTION INCLUDES**

- A. Video Display Equipment
  - 1. LCD TV/Digital Flat Panel Units
  - 2. TV/Flat Panel Mounts

**1.03 QUALITY ASSURANCE**

- A. All equipment shall be UL listed.
- B. All equipment and installation practices shall comply with the latest ANSI/NFPA-70 National Electrical Code.
- C. All equipment installation practices shall comply with the local electric code.
- D. All equipment and installation practices shall comply with the latest BICSI 14th Edition TDMM (Telecommunications Distribution Methods Manual).
- E. All equipment shall comply with the latest ANSI TIA/EIA-568, 569, 606, 607 and 862 standards.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Technology Kick-Off Meeting: Participate in a technology kick-off meeting at least two (2) weeks prior to the start of the work of this section.
  - 1. Attendance required
    - a. Contractor and contractor's on-site project manager
    - b. Subcontractors
    - c. Garmann/Miller Technology Designer
    - d. Construction Manager
    - e. Clermont County Commissioners - Technology Coordinator
- B. Refer to Division 1 Front-End documents for additional requirements.

**1.05 SUBMITTALS**

- A. Prior to commencement of work.
  - 1. Shop Drawings - Refer to Section 01 3000 - Administrative Requirements, for submittal procedures. Submit shop Drawings including product data sheets and wiring diagrams and shall include the following:
    - a. **A complete bill of materials with model and part numbers and reference to the Specification paragraph number.**
    - b. Complete and comprehensive shop Drawings of all equipment shall be submitted to the Architect/Engineer Technology Designer for review.
    - c. Complete and comprehensive Equipment Catalog Specification Sheets of each component provided.
    - d. Each Drawing shall have a descriptive title and all subparts of each name of the project, architect and electronics contractor in the title block.
- B. Post Construction
  - 1. Provide signed (by attendees & trainer) & dated training syllabus for each completed training session to the Architect/Engineer Technology Designer.
  - 2. Operation & Maintenance Manuals

Filager Campus Improvement

Phase 2

Construction Documents

Addendum #04

VIDEO DISPLAY EQUIPMENT

27 41 19- 1

April 15, 2026

- a. Provide complete O & Ms. One hard copy and PDF format.
- b. Both formats shall be fully indexed by Section Name/System/Device.
3. The Architect/Engineer Technology Designer may require operational demonstration of any products and systems to verify Execution/Installation/Configuration requirements are met.

## 1.06 WARRANTY

- A. Components, parts, and assemblies supplied by the manufacturer shall be warranted against defects in materials and workmanship for a period of three (3) years from date of completion.
- B. All repairs shall be made with new components. No refurbished equipment is permitted.

## PART 2 PRODUCTS

### 2.01 LCD TV/FLAT PANELS

- A. Provide the following monitors in quantities as indicated on Drawings.
  1. 32", 55", "65", 70", and 86" Flat Panels shall have the following features:
    - a. LCD, HD TV
    - b. 16:9 Aspect ratio
    - c. Minimum native resolution of 1366 x 768 (32"), 3840 x 2160 (55", "65", "70"&"86")
    - d. 2 x HDMI Video Inputs
    - e. 1 rear RCA composite video and stereo audio input
    - f. 60 Hz refresh rate
    - g. NTSC Video System
    - h. 120 VAC 60Hz powered
    - i. Provide with Ethernet connection for stream apps
    - j. Stereo sound internal speakers
    - k. Internal 181 channel tuner
    - l. ATSC/Digital Cable Ready
    - m. 16:9 wide screen Format
    - n. 1 A/V output
    - o. Built-In Closed Caption Decoder
  2. 70-75" LCD/LED FLAT PANELS
    - a. LG 75NANO75UQA 75" Class NAN075 UQA series LED 4k UHD Smart
    - b. Sony K-75XR50 BRAVIA 5 75" Class Mini LED 4K HDR Google TV
    - c. Samsung QA75QEF1AWXXY 75" QLED QEF1 4K Samsung Vision AI Smart TV
    - d. Provide Unit Pricing.
  3. 85" LCD/LED FLAT PANELS
    - a. LG 86UQ7590PUD 86 Inch Class UQ7590 series LED 4K UHD Smart webOS 22 TV
    - b. Sony K-85XR50 BRAVIA 5 85" Class Mini LED 4K HDR Google TV
    - c. Samsung QA85QEF1AWXXY 85" QLED QEF1 4K Samsung Vision AI Smart TV
- B. Provide all video distribution premium certified HDMI and category 6 component certified blue data network patch cables to connect flat panels.

### 2.02 LCD/LED FLAT PANEL MOUNTS

- A. Provide type mounts for each TV monitor based on unit Drawings.
- B. Utilize security/theft-deterrent mounting hardware on all mounts.
- C. For each monitor provide the following wall mount bracket, unless noted otherwise:
  1. Large Screens 50"-86"
    - a. Approved Manufacturers:
      - 1) Chief XTM1U | Fusion Wall-Tilt Series
      - 2) Premier CTM-MS3

- 3) Peerless STP680 - SmartMount® Universal Portrait Tilt Wall Mount
2. Black in color
3. Three pivot points with up to 180 degree swivel (for 32" to 55" mounts).
4. Adjustable Tilt - 10 degree forward and 5 degree backward
5. Arm extends to minimum 20"
6. Easy leveling adjustment
7. Provide shelf/mount for set top box.
8. Provide all necessary mounting hardware and mount per the manufacturer's requirements.

## **PART 3 EXECUTION**

### **3.01 INSTALLATION**

- A. Mount projectors and Flat Panels using manufacturer's recommended hardware. **Note: If data, A/V, or electrical outlets are not correctly positioned per the drawings, do not install the display/projector...notify the Construction Manager, A/E Project Manager or Technology Designer of the room number(s) where this issue was encountered.**
- B. Connect devices to IP network for central control and operation.
- C. Adjust all projectors for proper focus, keystone correction and display size.
- D. Install all associated software monitoring and control programs.
- E. No cable ties are permitted in exposed areas to dress cabling. Velcro straps only in neutral color (plenum).

### **3.02 TESTING**

- A. Verify picture quality on all A/V inputs.
- B. Test all associated software control programs.

### **3.03 QUANTITIES**

- A. Refer to Drawings for more information on quantities and where noted in this Specification.

**END OF SECTION**

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW.

|   |  |   |   |  |  |   |  |                                   |
|---|--|---|---|--|--|---|--|-----------------------------------|
| <b>A</b> - ANCHOR BOLT<br>AC - AIR CONDITIONING<br>ACC - ACCESSIBLE<br>ACT - ACUSTICAL<br>AD - AREA DRAIN<br>ADD - ADDITIONAL<br>ADI - ADJUSTABLE<br>AFF - ABOVE FINISHED FLOOR<br>AFP - ACCORDION FOLDING PARTITION<br>AGSR - AGGREGATE<br>ALT - ALTERNATE<br>ALUM - ALUMINUM<br>ANCH - ANCHOR<br>ANDD - ANDOZZED<br>AP - ACCESS PANEL<br>APPD - APPROVED<br>APPROX - APPROXIMATE<br>AR - ACD RESISTANT<br>ARCH - ARCHITECTURAL<br>ASPH - ASPHALT<br>AUTO - AUTOMATIC<br>AV - AUDIO-VISUAL<br>AWT - ACUSTICAL WALL TREATMENT | <b>E</b><br>E - EAST<br>EA - EACH<br>EB - EXPANSION BOLT<br>EF - EACH FACE<br>EFS - DIRECT APPLIED EXTERIOR FINISH SYSTEM<br>EIS - EXTERIOR INSULATION FINISH SYSTEM<br>EJ - EXPANSION JOINT<br>EL - ELEVATION<br>ELAB - LABORATORY<br>LAM - LAMINATE<br>LAV - LAVATORY<br>LDG - LANDING<br>LDR - LOCKER<br>LL - LVL LOAD<br>LLH - LONG LEG HORIZONTAL<br>LLV - LONG LEG VERTICAL<br>LN - LINE<br>LPT - LOW POINT<br>LT - LIGHT<br>LVR - LOUVER<br>LW - LONG WAY | <b>K</b><br>K - KNURLED<br>KIT - KITCHEN<br>KPL - KICK PLATE<br>KO - KNOCKOUT | <b>L</b><br>L - LENGTH<br>LAB - LABORATORY<br>LAM - LAMINATE<br>LAV - LAVATORY<br>LDG - LANDING<br>LDR - LOCKER<br>LL - LVL LOAD<br>LLH - LONG LEG HORIZONTAL<br>LLV - LONG LEG VERTICAL<br>LN - LINE<br>LPT - LOW POINT<br>LT - LIGHT<br>LVR - LOUVER<br>LW - LONG WAY | <b>M</b><br>MACH - MACHINE<br>MAINT - MAINTENANCE<br>MAS - MASONRY<br>MATL - MATERIAL<br>MAX - MAXIMUM<br>MB - MARKER BOARD<br>MBL - MARBLE<br>MDR - MEDIUM DENSITY FIBERBOARD<br>MEP - MECHANICAL, ELECTRICAL & PLUMBING<br>MECH - MECHANICAL<br>MEMB - MEMBRANE<br>MEZZ - MEZZANINE<br>MFR - MANUFACTURER<br>MH - MOD. HOLDER / MAN HOLE<br>MIN - MINIMUM / MINUTE<br>MISC - MISCELLANEOUS<br>MO - MASONRY OPENING<br>MRGB - MOISTURE RESISTANT GYPSUM WALLBOARD<br>MRT - MORTAR<br>MTD - MOUNTED<br>MTG - MOUNTING<br>MTL - METAL<br>MULL - MULLION | <b>R</b><br>R - RADIUS<br>RA - RETURN AIR<br>RB - RESILIENT BASE<br>RBR - RUBBER<br>RCP - REFLECTED CEILING PLAN<br>RD - ROOF DRAIN<br>REC - RECESSED<br>RECOM - RECOMMENDED<br>RECP - RECEPTACLE<br>REF - REFERENCE<br>REFL - REFLECT<br>REFR - REFRIGERATOR<br>REG - REGISTER<br>REIN - REINFORCE<br>REM - REMOVABLE<br>REQD - REQUIRED<br>RESIL - RESILIENT<br>REV - REVISION<br>RFG - ROOFING<br>RM - ROOM<br>RO - ROUGH OPENING<br>ROW - RIGHT OF WAY<br>RTD - RATED<br>RTG - RATINGS | <b>S</b><br>S - SOUTH<br>SA - SUPPLY AIR<br>SAN - SANITARY<br>SC - SOLID CORE<br>SCWD - SOLID CORE WOOD DOOR<br>SCHED - SCHEDULE<br>SD - STORM DRAIN / SMOKE DETECTOR<br>SECT - SECTION<br>SEW - SEWER<br>SFCMU - SPLIT-FACED CONCRETE MASONRY UNIT<br>SGFT - STRUCTURAL GLAZED FACING TILE<br>SH - SHOWER<br>SHT - SHEET<br>SIM - SIMILAR<br>SLR - SEALER<br>SM - SHEET METAL<br>SND - SANITARY NAPKIN DISPENSER<br>SPECS - SPECIFICATIONS<br>SPKR - SPEAKER<br>SPH - SPRINKLER HEAD<br>SPR - SPRINKLER<br>SQ - SQUARE<br>SS - STAINLESS STEEL<br>SSE - STRUCTURAL SLAB ELEVATION<br>SSF - SOLID SURFACE<br>SSK - SERVICE SINK<br>ST - STORM / STREET<br>STA - STATION<br>STC - SOUND TRANSMISSION COEFFICIENT<br>STD - STANDARD<br>STE - SUITE<br>STL - STEEL<br>STLST - STEEL JOIST<br>STN - STAIN<br>STOR - STORAGE<br>STRG - STRINGER<br>STRUCT - STRUCTURAL<br>SUBCAT - SUBCATEGORY<br>SUSP - SUSPENDED<br>SW - SHORT WAY / SIDEWALK<br>SYMM - SYMMETRICAL<br>SYNTH - SYNTHETIC<br>SYS - SYSTEM | <b>W</b><br>W - WEST / WIDTH<br>W - WITH<br>W/O - WITHOUT<br>WA - WARDROBE ACCESSORIES<br>WB - WOOD BASE<br>WC - WATER CLOSET<br>WD - WOOD<br>WIDOW - WINDOW<br>WG - WEIGHT<br>WH - WATER HEATER<br>WP - WATERPROOFING<br>WRM - WATERPROOF MEMBRANE<br>WR - WATER RESISTANT / REPELLANT<br>WS - WEATHERSTRIPPING<br>WST - WAINSCOT<br>WSK - WALL SERVICE SINK<br>WT - WINDOW TREATMENT<br>WVR - WOOD VENEER<br>WW - WALL TO WALL<br>WWF - WELDED WIRE FABRIC | <b>Y</b><br>Y - YARD / YARD DRAIN |
|---|--|---|---|--|--|---|--|-----------------------------------|

|   |  |   |  |  |   |   |  |
|---|--|---|--|--|---|---|--|
| <b>B</b><br>BEI - BRICK EXPANSION JOINT<br>BO - BOARD<br>BIT - BITUMINOUS<br>BLDG - BUILDING<br>BLK - BLOCK<br>BLKG - BLOCKING<br>BM - BEAM / BENCHMARK<br>B/O - BOTTOM OF<br>BOT - BOTTOM OF<br>BRG - BEARING<br>BS - BOILER STACK<br>BSMT - BASEMENT<br>BT - BOLT<br>BUR - BUILT UP ROOF<br>BYND - BYWIND | <b>F</b><br>FA - FIRE ALARM<br>FB - FACE BRICK<br>FC - FACE<br>FCO - FLOOR CLEANOUT<br>FD - FLOOR DRAIN<br>FDC - FIRE DEPARTMENT CONNECTION<br>FDV - FIRE DEPARTMENT VALVE<br>FE - FIRE EXTINGUISHER / FINISH END<br>FEC - FIRE EXTINGUISHER CABINET<br>FF - FINISH FLOOR<br>FFR&E - FURNITURE, FINISHES & EQUIPMENT<br>FH - FLAT HEAD<br>FHC - FIRE HOSE CABINET<br>FIN - FINISH<br>FIXT - FIXTURE<br>FLR - FLOOR<br>FLASH - FLASHING<br>FLUOR - FLUORESCENT<br>FM - FILLED METAL<br>FND - FACE OF<br>FP - FIRE PROTECTION<br>FPG - FIREPROOFING<br>FR - FRAME<br>FRTW - FIRE RETARDANT TREATED WOOD<br>FSR - FLEXIBLE SHEET ROOFING<br>FSK - FLOOR SERVICE SINK<br>FTG - FOOTING<br>FURN - FURNITURE<br>FURN - FURNITURE<br>FURR - FURRING<br>FVC - FABRIC WALLCOVERING<br>FWP - FABRIC WALL PANEL<br>FVC - FIRE VALVE CABINET | <b>N</b><br>N - NORTH<br>NA - NOT APPLICABLE<br>NC - NOISE CRITERIA<br>NIC - NOT IN CONTRACT<br>NOM - NOMINAL<br>NTS - NOT TO SCALE | <b>O</b><br>OA - OUTSIDE AIR<br>OC - ON CENTER<br>OCEW - ON CENTER EACH WAY<br>OD - OUTSIDE DIAMETER<br>OFF - OWNER FURNISHED, CONTRACTOR INSTALLED<br>OFFC - OFFICE<br>OH - OVERHEAD<br>OPH - OPPOSITE HAND<br>OPNG - OPENING<br>OPP - OPPOSITE<br>ORD - OVERFLOW ROOF DRAIN<br>OUTS - OUTSIDE<br>OVHD - OVERHEAD<br>OW - OPERABLE WALL | <b>G</b><br>G - GROUND<br>GA - GAUGE<br>GALV - GALVANIZED<br>GB - GRAB BAR<br>GC - GENERAL CONTRACTOR<br>GFCMU - GROUND-FAÇED CONCRETE MASONRY UNIT<br>GFR - GLASS FIBER REINFORCED CONCRETE<br>GFRGU - GLASS FIBER REINFORCED GYPSUM UNIT<br>GL - GLASS<br>GR - GRADE<br>GRD - GROUND<br>GWB - GYPSUM WALLBOARD | <b>H</b><br>HB - HOSE BIBB<br>HC - HOLLOW CORE<br>HCP - HANDICAPPED<br>HDW - HARDWARE<br>HDWD - HARDWOOD<br>HGT - HEIGHT<br>HM - HOLLOW METAL (STEEL FRAME)<br>HNDRL - HANDRAIL<br>HO - HOLD OPEN<br>HORIZ - HORIZONTAL<br>HRC - HOSE REEL CABINET<br>HS - HIGH STRENGTH<br>HVAC - HEATING, VENTILATING & AIR CONDITIONING<br>HW - HOT WATER<br>HWY - HIGHWAY<br>HYDR - HYDRAULIC | <b>P</b><br>P - PAINT<br>PA - PUBLIC ADDRESS<br>PAV - PAVING<br>PARTN - PARTITION<br>PATD - PAPER TOWEL DISPENSER<br>PBD - PARTICLEBOARD<br>PC - PRECAST CONCRETE<br>PERF - PERFORATED<br>PERIM - PERIMETER<br>PERP - PERPENDICULAR<br>PLAM - PLASTIC LAMINATE<br>PLAS - PLASTER<br>PL - PROPERTY LINE / PLATE<br>PLBG - PLUMBING<br>PLYWD - PLYWOOD<br>PNL - PANEL<br>POL - POLISHED<br>PR - PAIR<br>PREFAB - PREFABRICATED<br>PROJ - PROJECT<br>PS - PROTECTION SCREEN<br>PSS - PENCIL SHARPENER SUPPORT<br>PT - PAINT<br>PTN - PARTITION<br>PTR - PAPER TOWEL RECEPTACLE<br>PVS - PAVERS<br>PVC - POLYVINYL CHLORIDE PIPE<br>PVMT - PAVEMENT | <b>Q</b><br>QT - QUARRY TILE<br>QTY - QUANTITY |
|---|--|---|--|--|---|---|--|

|                                |   |
|--------------------------------|---|
| <b>ABBREVIATIONS</b>           | <b>MATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW</b> |
| ASPHALT                        | FACE BRICK (PLAN AND SECTION)   |
| EARTH                          | CONCRETE MASONRY UNIT (PLAN AND SECTION)  |
| GRAVEL, STONE OR DRAINAGE FILL | RIGID, PERIMETER, OR ROOF INSULATION  |
| SAND, GROUT, MORTAR OR PLASTER | PLYWOOD OR SHEATHING  |
| CONCRETE                       | WOOD (FINISHED)   |
| CUT OR CAST STONE              | SPRIT-FACE CONCRETE MASONRY UNIT  |
| STEEL                          | STEEL   |
| SPRAY APPLIED INSULATION       | WOOD - DIMENSIONAL (NOMINAL)  |
| WOOD - DIMENSIONAL (NOMINAL)   | WOOD - DIMENSIONAL (RIPPED)   |
| WOOD - DIMENSIONAL (RIPPED)    | BATT INSULATION OR SOUND ATTENUATION  |
| METAL ROOF DECKING             | METAL ROOF DECKING  |
| STUD WALL (PLAN)               | STUD WALL (PLAN)  |
| REVISION NUMBER                | REVISION NUMBER   |
| AREA OF REVISION               | AREA OF REVISION  |

|  |
|--|
| <b>DRAWING AND MATERIAL SYMBOLS LEGEND</b> |
|--|

**GENERAL NOTES**

A REFERENCE GENERAL CONSTRUCTION NOTES AND SPECIFICATIONS FOR MORE INFORMATION AND BID ALTERNATES.

B REFERENCE SPECIFICATIONS AND DRAWINGS FOR SPECIAL REQUIREMENTS AND CONDITIONS.

C FINISH FLOOR ELEVATION SHALL BE 5'-0" (5'-0"). REFERENCE SITE DRAWINGS FOR RELATIONSHIP TO U.S.G.S. DATUM. ELEVATIONS OF EXISTING ELEMENTS RELATIVE TO 100'-0" SHALL BE FIELD VERIFIED BY THE CONTRACTOR(S). CONTRACTOR(S) SHALL NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

D THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE WORK IS COMPLETE. CONTRACTOR(S) SHALL DETERMINE THE CONSTRUCTION PROCEDURES AND SEQUENCES AND ENSURE THE INTEGRITY OF THE WORK AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES SHORING, SHEATHING, TEMPORARY ENCLOSURES AND TEMPORARY POSITIVE WATER DRAINAGE FROM THE SITE AND ALL BUILDING ROOFS.

E CONTRACTOR(S) SHALL MAINTAIN ALL LEGAL EGRESS FROM THE WORK TO COMPLY WITH APPLICABLE BUILDING CODES, SAFETY REGULATIONS AND THE DISCRETION OF THE GOVERNING LOCAL BUILDING CODE AUTHORITIES FOR THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC FOR NORMAL ACTIVITIES AND EMERGENCY EGRESS FROM THE WORK. THE CONTRACTOR(S) SHALL FURNISH AND INSTALL ANY TEMPORARY WALLS, DOORS, HARDWARE PARTITIONS, SCREENS, ENCLOSURES AND PEDESTRIAN PROTECTIONS TO MAINTAIN SUCH LEGAL EGRESS.

F CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND CLEARANCES BEFORE PROCEEDING WITH THE WORK. COMMENCEMENT OF THE WORK, BY THE CONTRACTOR(S), CONSTITUTES ACCEPTANCE OF THE EXISTING CONDITIONS. CONTRACTOR(S) SHALL NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

H DIFFERENT FLOOR FINISH MATERIALS SHALL MEET UNDER THE CENTERLINE OF THE DOOR IN THE CLOSED POSITION UNLESS NOTED OR DETAILED OTHERWISE.

K ALL DIMENSIONS ARE MEASURED TO THE FACE OF MASONRY OR THE FACE OF STUD UNLESS NOTED OR DETAILED OTHERWISE.

L FILL IN ALL MASONRY VOIDS WITH MORTAR OR GROUT WHERE MASONRY ANCHORS OCCUR.

R INTERIOR FINISHES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE LOCAL BUILDING CODE AUTHORITY HAVING JURISDICTION OVER THE WORK, AS WELL AS ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND REGULATIONS.

S REFERENCE FINISH MATERIAL SCHEDULE FOR ALL INTERIOR FINISHES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

T THE CONTRACTOR(S) SHALL FURNISH AND INSTALL TREATED WOOD BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, ACCESSORIES, HANDRAILS, CASEWORK, ETC. COORDINATE THIS WORK WITH ALL APPROPRIATE CONTRACTORS, SUPPLIERS AND MANUFACTURERS RECOMMENDATIONS. SUCH WOOD BLOCKING SHALL BE FASTENED TO STRUCTURAL MEMBERS AND CMU(S) WITH MINIMUM 1/2" DIAMETER EXPANSION BOLTS AT 48" OC MAXIMUM UNLESS NOTED OR DETAILED OTHERWISE.

U REFERENCE EQUIPMENT PLANS FOR EQUIPMENT MOUNTING HEIGHTS.

V REFERENCE FLOOR PLANS FOR FIRE EXTINGUISHER (FE) AND FIRE EXTINGUISHER CABINET (FEC) LOCATIONS. REFERENCE EQUIPMENT DRAWINGS FOR MOUNTING HEIGHTS.

X THE GENERAL TRADES CONTRACTOR IS REQUIRED TO CUT AND PATCH ANY OPENINGS LARGER THAN 8" AS REQUIRED FOR ANY, PLUMBING, MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACTOR(S) TO FURNISH AND INSTALL THEIR WORK. CUTTING AND PATCHING INCLUDING CUTTING FLOOR AND/OR WALL, EXCAVATING, BACK FILLING, PATCHING AND REPAIR AS REQUIRED TO MATCH EXISTING ADJACENT SURFACE TO ACCEPT NEW FINISH. REFERENCE ENGINEERING DRAWINGS FOR LOCATIONS OF WORK TO BE PERFORMED. THIS INCLUDES ALL AREAS NOT SPECIALLY NOTED BUT REQUIRING CUTTING AND PATCHING.

AA OPENINGS IN ROOF FOR ROOFTOP EQUIPMENT SHALL BE CUT BY THE ROOFING CONTRACTOR. THE ASSOCIATED CONTRACTOR SHALL COORDINATE LOCATIONS OF SUCH OPENINGS WITH THE ROOFING CONTRACTOR. EQUIPMENT CURBS ARE TO BE FURNISHED BY THE ASSOCIATE CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR.

BB REFERENCE PLUMBING DRAWINGS FOR ALL VENT STACK LOCATIONS. COORDINATE LOCATIONS OF SUCH PENETRATIONS WITH THE CONTRACTOR(S).

CC REFERENCE MECHANICAL DRAWINGS FOR ALL FLUE LOCATIONS. COORDINATE LOCATIONS OF SUCH PENETRATIONS WITH THE CONTRACTOR(S).

DD THE CONTRACTOR SHALL PROTECT ALL GUTTERS AND DOWNSPOUTS FROM DEBRIS CREATED DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL INSPECT AND CLEAR ALL GUTTERS AND DOWNSPOUTS PRIOR TO THE COMPLETION OF THE WORK AND TO ENSURE THAT ALL GUTTERS AND DOWNSPOUTS ARE FREE OF DEBRIS AND ARE FUNCTIONING PROPERLY AT PROJECT COMPLETION.

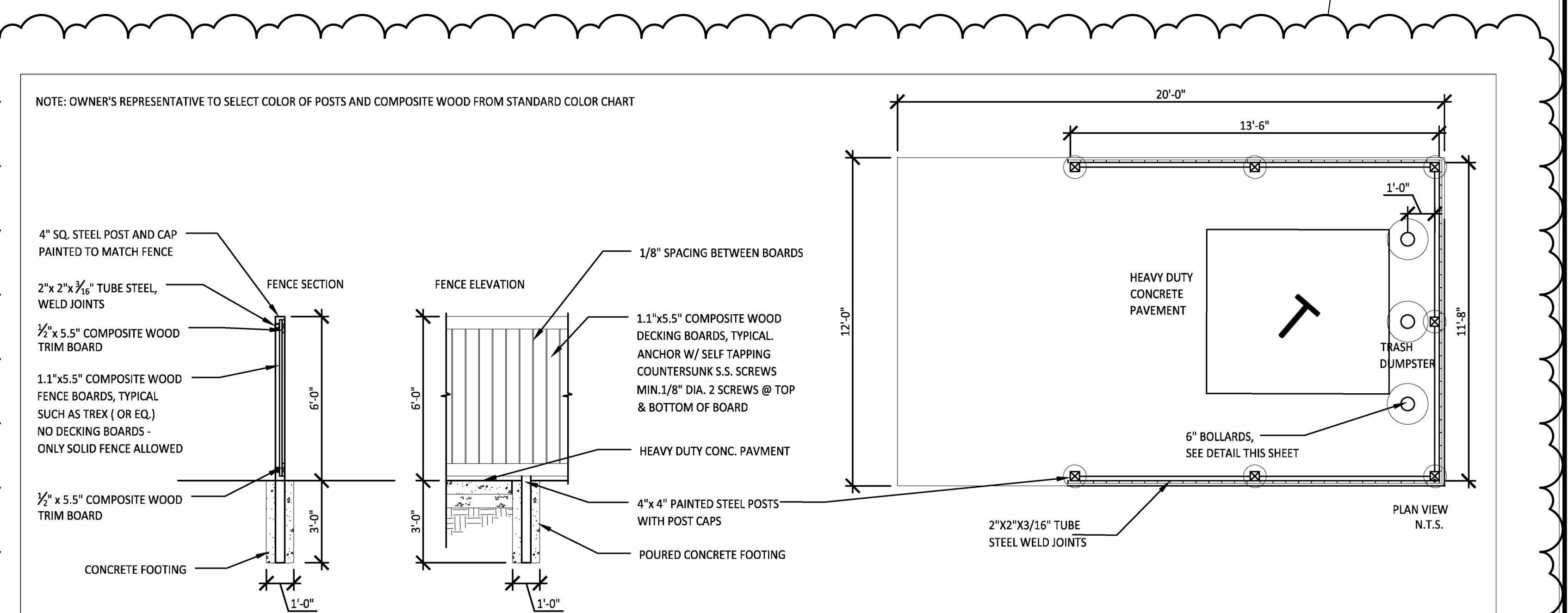
EE ALL TYPICAL ROOFING DETAILS ARE SHOWN FOR GENERAL INFORMATION. ALL FINAL FLASHING CONDITIONS SHALL MEET THE APPROVAL OF THE ROOFING MANUFACTURER. ALL DETAIL MODIFICATIONS MUST HAVE REVIEWED SHOP DRAWINGS.

FF INSTALL ALL FLASHING AND APPROPRIATE CRICKETS FOR ALL ROOFTOP PENETRATIONS.

GG ALL TOP OF STEEL AND TOP OF BOND BEAM ELEVATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS ARE FOR COORDINATION PURPOSE ONLY. IN CASE OF DISCREPANCY BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS, CONTRACTOR(S) SHALL USE THE ELEVATIONS ON THE STRUCTURAL DRAWINGS AND NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.

HH CONTRACTOR TO COORDINATE AND MAINTAIN MINIMUM 1'-0" WIDE BY 6'-0" HIGH SPACE ON LATCH SIDE OF ALL DOORS FOR OWNER'S SIGNAGE.

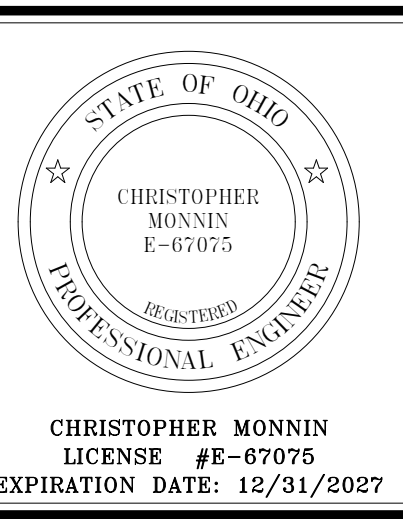
II IN THE EVENT OF INCONSISTENCIES WITHIN OR BETWEEN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUALITY OF WORK AND SHALL COMPLY WITH THE STRICTER REQUIREMENTS.



**1 DUMPSTER FENCE AND BOLLARDS**  
NTS



**2 BOLLARD DETAIL**  
NTS



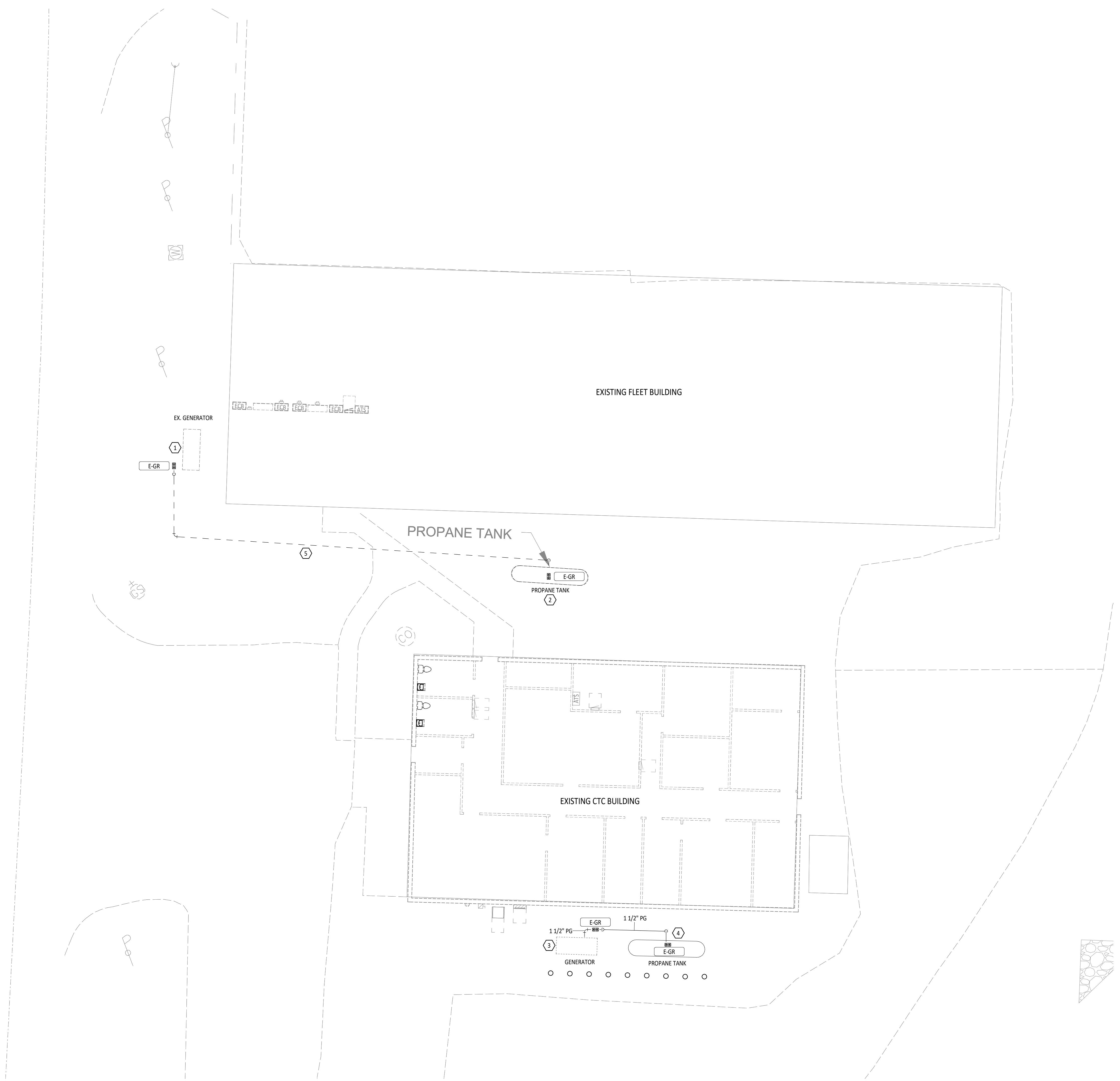
**CLERMONT COUNTY FACILITIES PHASE 2**  
**MANAGEMENT BUILDING**

|                        |            |  |
|------------------------|------------|--|
| ISSUANCES/REVISIONS    |            |  |
| CONSTRUCTION DOCUMENTS | 02/19/2026 |  |
| 1 ADDENDUM 04          | 04/15/2026 |  |

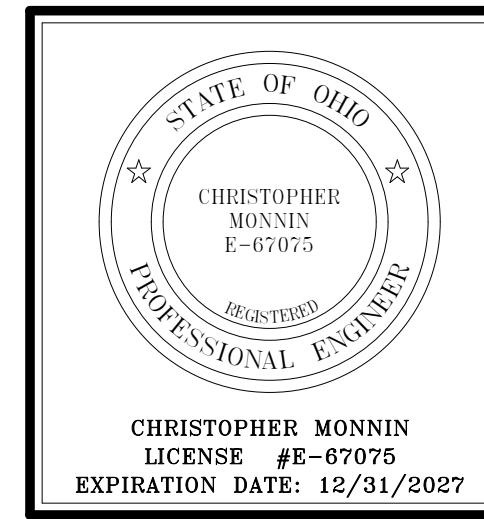
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| PROJECT NUMBER: | DRAWN BY: | CHECKED BY: |
| 22001.00        | JCR       | ES          |

SHEET TITLE:  
**GENERAL NOTES, ABBREVIATIONS AND SYMBOLS**

SHEET NUMBER:  
**A0.1**



| # | KEYNOTE DESCRIPTION   |
|---|---|
| 1 | EXISTING LOCATION OF GENERATOR AND PROPANE GAS REGULATOR. DISCONNECT PROPANE PIPING FROM GENERATOR AND GAS REGULATOR. PREPARE FOR RELOCATION AND RECONNECTION TO LOCATION SHOWN ON THIS SHEET. REMOVE GAS PIPING FROM GENERATOR TO PROPANE TANK LOCATION. VERIFY LOCATION ON SITE.  |
| 2 | EXISTING LOCATION OF PROPANE TANK AND 1ST STAGE REGULATOR. DISCONNECT PROPANE PIPING FROM TANK/REGULATOR. TRANSFER TANK PROPANE TO A TRUCK BEFORE MOVING TANK. PREPARE FOR RELOCATION AND RECONNECTION TO LOCATION SHOWN ON THIS SHEET. REMOVE GAS PIPING FROM GENERATOR TO PROPANE GAS TANK LOCATION. VERIFY LOCATION ON SITE. |
| 3 | NEW LOCATION OF EXISTING GENERATOR AND PROPANE GAS REGULATOR IN THE APPROXIMATE LOCATION SHOWN. PROVIDE 1-1/2" PROPANE PIPING FROM REGULATOR TO GENERATOR AND RECONNECT. COORDINATE WORK WITH GENERAL CONTRACTOR.   |
| 4 | NEW LOCATION OF EXISTING PROPANE TANK AND 1ST STAGE REGULATOR. PROVIDE CONCRETE BLOCKS TO SUPPORT TANK OFF THE GROUND. ROUTE 1-1/2" GAS LINE FROM TANK/REGULATOR TO GENERATOR LOCATION. PROVIDE GROUND SUPPORT AS NEEDED TO KEEP PIPING OFF THE GROUND. COORDINATE WORK WITH GENERAL CONTRACTOR.                                |
| 5 | DEMOLISH EXISTING PIPING IN THE APPROXIMATE LOCATION SHOWN. VERIFY EXISTING SIZE, TYPE AND LOCATION ON SITE. COORDINATE WORK WITH GENERAL CONTRACTOR.   |

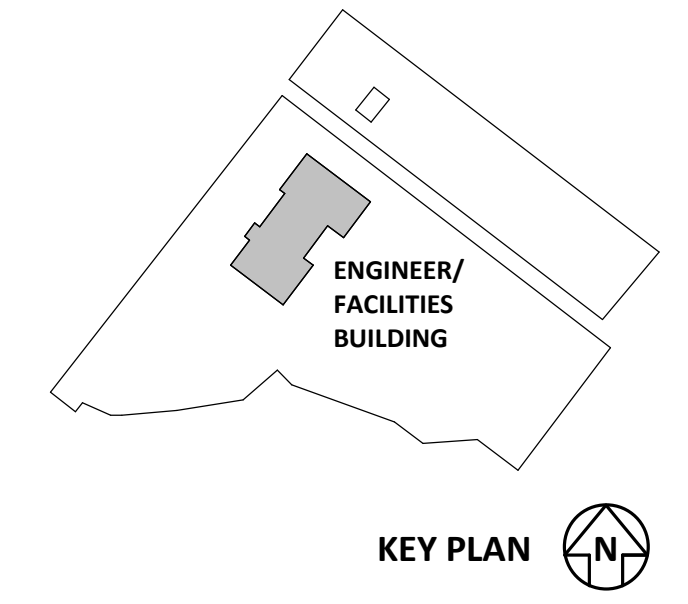


**CLERMONT COUNTY FACILITIES PHASE 2  
MANAGEMENT BUILDING**

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| 1 ADDENDUM #04         | 04/15/2025 |  |

| PROJECT NUMBER: | DRAWN BY: | CHECKED BY: |
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**SITE PLUMBING  
PLAN -  
GENERATOR  
RELOCATION**





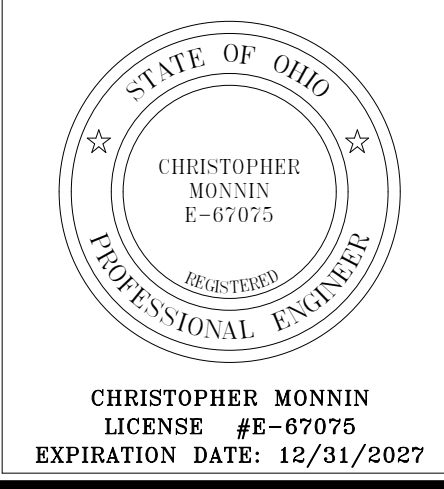
**UTILITY COMPANY CONTACT**

DUKE ENERGY  
DEREK DEATHERAGE  
(OFFICE) 800.774.1202  
(CELL) 513.404.7012

**ELECTRICAL SITE GENERAL NOTES**

- A SEE CIVIL SITE PLAN, AND LANDSCAPE SITE PLANS FOR EXACT LOCATION OF OTHER UTILITIES. INSTALLATION OF ELECTRICAL WORK SHALL BE COORDINATED WITH THE OTHER TRADES.
- B ELECTRICAL UTILITY SERVICE CONDUITS TO BE MINIMUM OF 48" BELOW GRADE TO TOP OF CONDUITS.
- C PROVIDE PULL WIRES IN ALL EMPTY CONDUITS.
- D ALL UNDERGROUND CONDUIT SHALL BE 1" SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
- E COORDINATE CONSTRUCTION WITH THE ELECTRIC UTILITY COMPANY.
- F COORDINATE ALL UTILITY OUTAGES WITH OWNER PRIOR TO SHUT DOWN. ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY GENERATOR DURING UTILITY OUTAGES.
- G COORDINATE ROUTING OF NEW CONDUIT AND WIRE THROUGH BUILDING WITH EXISTING CONDITIONS.
- H EXISTING EQUIPMENT RELOCATION SHALL BE COORDINATED WITH GENERATOR MANUFACTURER REPRESENTATIVE PRIOR TO START OF WORK. GENERATOR SYSTEM START UP SHALL BE COORDINATED WITH MANUFACTURER REPRESENTATIVE.

| #  | KEYNOTE DESCRIPTION   |
|----|---|
| 1  | EXISTING POLE MOUNTED UTILITY TRANSFORMER TO BE REMOVED BY UTILITY COMPANY. UTILITY POLE TO BE RELOCATED TO AVOID NEW DRIVE LOCATION. REFER TO SHEET E2.1 FOR DRIVE LOCATION. COORDINATE WORK WITH EXISTING UTILITIES.  |
| 2  | EXISTING OVERHEAD UTILITY FEED TO BE REMOVED. COORDINATE WORK WITH UTILITY COMPANY.   |
| 3  | EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED.  |
| 4  | EXISTING AUTOMATIC TRANSFER SWITCH TO BE REMOVED AND RELOCATED TO ADJACENT BUILDING.  |
| 5  | EXISTING GENERATOR ANNUNCIATOR PANEL TO BE REMOVED AND RELOCATED TO ADJACENT BUILDING.  |
| 6  | EXISTING GENERATOR, BATTERY CHARGER, AND BLOCK HEATER TO BE REMOVED AND RELOCATED TO ADJACENT BUILDING.   |
| 7  | TECH ROOM BRANCH CIRCUITS IN THIS PANEL SHALL BE RECONNECTED TO NEW PANEL SB1.  |
| 8  | PROVIDE CONNECTIONS TO RELOCATED GENERATOR BLOCK HEATER.  |
| 9  | PROVIDE CONNECTIONS TO RELOCATED GENERATOR BATTERY CHARGER.   |
| 10 | RELOCATED GENERATOR ANNUNCIATOR LOCATION. PROVIDE CONNECTIONS AS NECESSARY.   |
| 11 | EXISTING PROPANE TANK TO BE RELOCATED BY OTHERS. COORDINATE WORK WITH GENERAL CONTRACTOR.   |
| 12 | RELOCATED PROPANE TANK LOCATION. COORDINATE WORK WITH GENERAL CONTRACTOR.   |
| 13 | RELOCATED GENERATOR LOCATION. PROVIDE CONNECTIONS TO PROPANE TANK AS NECESSARY. PROVIDE 12" THICK MINIMUM CONCRETE PAD WITH #4 RE-BAR IN A HATCH PATTERN 12" ON CENTER. PROVIDE UNDERGROUND CONDUIT FOR REMOTE ANNUNCIATOR PANEL. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION. |
| 14 | APPROXIMATE LOCATION OF EXISTING TECH ROOM CIRCUITS. REMOVE CONNECTIONS FROM PANEL EM-5 AND RECONNECT TO NEW PANEL SB1. COORDINATE EXACT CIRCUIT LOCATION AND REQUIREMENTS WITH EXISTING EQUIPMENT.   |
| 15 | NEW POLE MOUNTED TRANSFORMER TO BE LOCATED ON EXISTING POLE. EXISTING TRANSFORMER TO BE REMOVED. COORDINATE WORK WITH UTILITY COMPANY.  |
| 16 | NEW OVERHEAD SERVICE WIRES BY UTILITY COMPANY. REFER TO ONE LINE DIAGRAM.   |
| 17 | NEW UTILITY METER. PROVIDE METER BASE AS NECESSARY. COORDINATE WORK WITH UTILITY COMPANY. REFER TO ONE LINE DIAGRAM.  |
| 18 | EXTERIOR ELECTRICAL EQUIPMENT SHALL HAVE NEMA-3R ENCLOSURE. COORDINATE EXACT LOCATIONS WITH EXISTING CONDITIONS.  |
| 19 | RELOCATED AUTOMATIC TRANSFER SWITCH LOCATION. PROVIDE CONNECTIONS AS NECESSARY. COORDINATE WITH EXISTING EQUIPMENT/CONDITIONS.  |
| 20 | PROVIDE PROTECTIVE BOLLARDS FOR GENERATOR NO LESS THAN 3' FROM FUEL TANK AND NO MORE THAN 4' ON CENTER. REFER TO DETAIL 3/E1.3.   |
| 21 | EMERGENCY STOP FOR GENERATOR. REFER TO SPECIFICATIONS.  |
| 22 | PROVIDE 2 AWG CU CONDUCTOR TO (2) 10' GROUND RODS. GROUND RODS SHALL BE SPACED 10' APART AND TOP OF GROUND ROD SHALL BE BURIED AT 6" BELOW FINISH GRADE.  |
| 23 | PROVIDE CONCRETE PAD FOR EXTERIOR 300 TRANSFORMER.  |
| 24 | PROVIDE 200A, 208/120V, 3Ø, 4W FUSED DISCONNECT AND FUSES IN NEMA 3R ENCLOSURE.   |
| 25 | PROVIDE 60A, 240/120V, 1Ø, 3W FUSED DISCONNECT AND FUSES IN NEMA 3R ENCLOSURE.  |



**CLERMONT COUNTY FACILITIES PHASE 2  
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| PROJECT NUMBER: | DRAWN BY: | CHECKED BY: |
| 22001.00        | CDH       | KCR         |

SHEET TITLE:  
**EXISTING ELECTRICAL SITE PLAN - GENERATOR RELOCATION**

SHEET NUMBER:  
**EG1.1**

