



Addendum #02 for RFB #915800-01

Project Name: Grimes Switchgear Replacement

DAS RFB #: 915800-01 DAS Project #: 9158.00

Date: 6/25/2020

Addendum #2:

Cover Page – Table of Contents, Clarifications, Drawings, Substitutions and Questions (2 pages)

• Revised Drawings – Sheets E1, E2 and M1 (3 pages)

Bids Due: Tuesday, June 30, 2020 at 2:00pm

Clarifications:

1. There is a new transformer located in the SE corner of the switchgear electrical room. This transformer serves the elevators. Reference updated sheets E1 and E2 for

Drawings:

- Drawing E1- ELECTRICAL GENERAL NOTES, ONE-LNE, AND SCHEDULES
 - a. Clarify existing 15kVA transformer shown on Demo and New one-line Diagram
 - b. Add breaker in panel LPB to match existing breaker feeding 15kVA transformer.
 - c. Refer to attached full size sheet E1.
- 2. Drawing E2-Grimes Electrical Plan
 - a. Clarify location of existing 15kVA transformer in electrical room.
 - b. Refer to attached full size sheet E2.
- 3. Drawing M1 Mechanical Plan
 - a. Revise Keynote 1. Fan model changed to Greenheck Model AER-E206-620-B3.
 - b. **ADD** a note to Detail 3/M1 Propeller Exhaust Fan Detail about providing a flanged frame around the existing opening as required.
 - c. Refer to attached full size sheet M1.

Substitutions

The following shall be added to specifications as approved manufacturers:

<u>Light Fixture Type</u>	<u>Manufacturer</u>
Strip Light	Columbia MPS, Lithonia CLX
Emergency Light	LightAlarms LCA, Lithonia ELM2L

Questions:

- **Q1**. Concerning the generator cables temporarily installed inside the garage and hallways, are these to be sleeved in conduit for added protection, or is normal care in layout sufficient?
 - **A1**. The cables do not need to be in conduit. The contractor is responsible to protect temporary cables from damage and ensure the placement is safe for building occupants.
- **Q2**. Is it the intent to completely fill with concrete, or could a base of fill type material be used first and then topped with concrete?
 - **A2**. Please reference keynote 3 on sheet M1. The pit is to be filled with compacted sand and topped with 6" of concrete.

INSTALLATION NOTES - ELECTRICAL

CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH EXISTING FIELD CONDITIONS RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE THE GENERAL AND APPROXIMATE LOCATION. THE LAYOUT DOES NOT NECESSARILY SHOW

THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE

- THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS ALL RECEPTACLE CIRCUITS SHALL HAVE DEDICATED NEUTRALS PER CODE. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTORS TO ALL DEVICES. THE CONDUIT SYSTEM SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING
- BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED.
- PROVIDE FINAL TYPED PERMANENT PANEL DIRECTORY AT PROJECT COMPLETION. CONTRACTOR SHALL BE RESPONSIBLE FOR OPENINGS IN ALL WALLS CREATED OR UTILIZED BY THEIR WORK. PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH THE RATINGS OF THE AFFECTED WALL. REFER TO ARCHITECTURAL CODE PLAN FOR RATED

CODE NOTES - ELECTRICAL

- THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH ALL STATE AND NATIONAL
- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE SHALL BE THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DESCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.

ELECTRICAL ABBREVIATIONS

- DEVICE MOUNTED +8" ABOVE NIC NOT IN CONTRACT COUNTER TOP (VERIFY LOCATION) NM NONMETALLIC AFF ABOVE FINISHED FLOOR NTS NOT TO SCALE ATS AUTOMATIC TRANSFER SWITCH ON CENTER OFCI OWNER FURNISHED CEILING CB CIRCUIT BREAKER CONTRACTOR INSTALLED CURRENT TRANSFORMER OFOI OWNER FURNISHED, EXISTING ITEM TO REMAIN OWNER INSTALLED ELECTRICAL CONTRACTOR EMERGENCY LIGHT FIXTURE NEW LOCATION OF EXISTING ITEM RELOCATED ROUGH IN FOR FUTURE DEVICE FAAP FIRE ALARM ANNUNCIATOR PANEL REPLACED WITH NEW
- FACP FIRE ALARM CONTROL PANEL GROUND FAULT CIRCUIT INTERRUPTER T GND GROUND KV KILO-VOLT KVA KILO-VOLT-AMPERES
- KW KILOWATTS LV LOW VOLTAGE, 600V AND BELOW MC MECHANICAL CONTRACTOR MCB MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANEL

N NEW DEVICE IN EXISTING LOCATION

- MLO MAIN LUGS ONLY MEDIUM VOLTAGE, 5KV-15KV
- EXISTING ITEM TO BE REMOVED
- EXISTING ITEM TO BE REMOVED AND RN EXISTING ITEM TO BE REMOVED AND SCCR SHORT CIRCUIT CURRENT RATING TAMPER PROOF DEVICE
- TCC TEMPERATURE CONTROL CONTRACTOR TELEVISION TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY VOLTS VOLT-AMPERES
 - WG WIREGUARD COVER WP WEATHERPROOF DEVICE WR WEATHER RESISTANT DEVICE +24" INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR

DEMOLITION AND RENOVATION NOTES - ELECTRICAL

- THE ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON LIMITED FIELD OBSERVATION. ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER
- SIMILAR TO THOSE ITEMS WHICH ARE SHOWN. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS
- AS POSSIBLE. PROVIDE LABOR AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING
- DEMOLITION AND ADJACENT REMOVALS. ALL EXISTING WIRING SHALL BE REMOVED FOR DEMOED DEVICES. ALL UNUSED CONDUIT SHALL BE REMOVED.
- ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. EXISTING CONDUITS MAY BE RETAINED FOR CONTINUED USE AS APPLICABLE. ALL UNUSED CONDUIT SHALL BE REMOVED.

ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR

- ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE DEMOLITION AREA SHALL BE MAINTAINED. EXTEND AND/OR RECONNECT NEW WIRING TO EXISTING AS REQUIRED TO MAINTAIN
- EXISTING CIRCUITS. PANELBOARDS, DISCONNECTS, FIXTURES, WIRING DEVICES, SIGNAL DEVICES, ETC., SHOWN ON PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK.
- COORDINATE WITH THE OWNER AND OTHER CONTRACTORS. ALL EXISTING BUILDING SYSTEMS (EXISTING AND/OR NEW) THAT ARE NOT AFFECTED BY THE SCOPE OF THE PROJECT ARE TO BE KEPT OPERATIONAL IN ALL OCCUPIED AREAS OF THE BUILDING THROUGH THE DURATION OF THE PROJECT. COORDINATE ANY REQUIRED OUTAGES WITH THE OWNER IN ADVANCE OF SHUT DOWN.
- DO NOT CUT EXISTING TELECOMMUNICATION WIRING, CABLES OR CONDUIT AS EXISTING SYSTEMS SHALL REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR WHO CUTS IN-SERVICE CABLES SHALL BE RESPONSIBLE FOR ANY AND ALL
- DOWNTIME AND COSTS TO REPAIR. INSTALL STAINLESS STEEL COVER PLATE OVER HOLE AT REMOVED DEVICE LOCATIONS. PROVIDE CUTTING AND PATCHING OF EXISTING CONSTRUCTION AS REQUIRED FOR THE PROPER COMPLETION OF THE DEMOLITION WORK AND THE INSTALLATION OF THE NEW
- EQUIPMENT AND DEVICES SHOWN AS EXISTING OR AS REMOVE/RELOCATE SHALL BE PROTECTED AND HANDLED WITH APPROPRIATE CARE SO AS TO MAINTAIN FULL FUNCTIONAL AND AESTHETIC INTEGRITY OF THE DEVICE. REMOVE EQUIPMENT AND SYSTEMS AS SHOWN. THE EXISTING METER WILL BE SALVAGED

UNDER THIS CONTRACT. DAMAGED CEILING TILES SHALL BE REPLACED TO MATCH

- BY THE OWNER. ALL MATERIALS NOT SALVAGED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PROPER DISPOSAL. REMOVE AND REINSTALL ANY CEILING TILES REQUIRED FOR THE WORK BEING DONE
- 16. ALL ABANDONED AND UNUSED CONDUIT AND CONDUCTORS LOCATED WITHIN THE ELECTRICAL ROOM SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR.

TEMPORARY SERVICE NOTES

- CONTRACTOR TO COORDINATE SHUTDOWN AND SERVICE INTERRUPTIONS WITH INSTALL SPD ON PANELBOARDS USED FOR TEMPORARY SERVICE. SPD USED FOR
- NEW EQUIPMENT MAY BE UTILITIZED FOR THIS PROTECTION.
- GENERATOR LOCATION TO BE COORDINATED WITH OWNER. GENERATOR FUEL, MAINTENANCE, AND PARTS WILL BE PROVIDED BY THE CONTRACTOR.

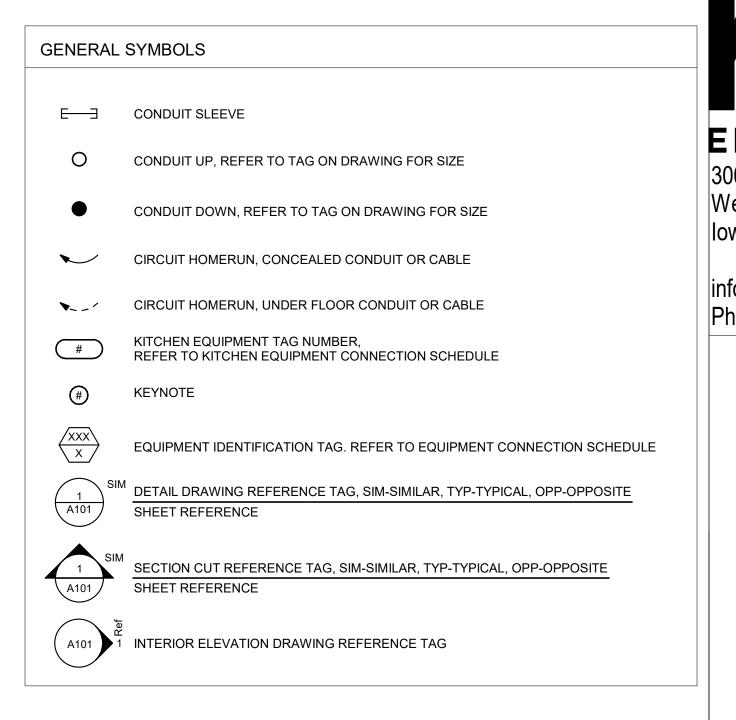
LIGHTING	LIGHTING SYMBOLS	
0	SURFACE MOUNTED STRIP FIXTURE	
• •	LINEAR PENDANT MOUNTED FIXTURE	
4_4	EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED	
\$ a	SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG	
LC	LIGHTING CONTACTOR	
R	RELAY	
PC	PHOTOCELL	
RC	ROOM/ZONE CONTROLLER, MOUNT ABOVE ACCESSIBLE CEILING	

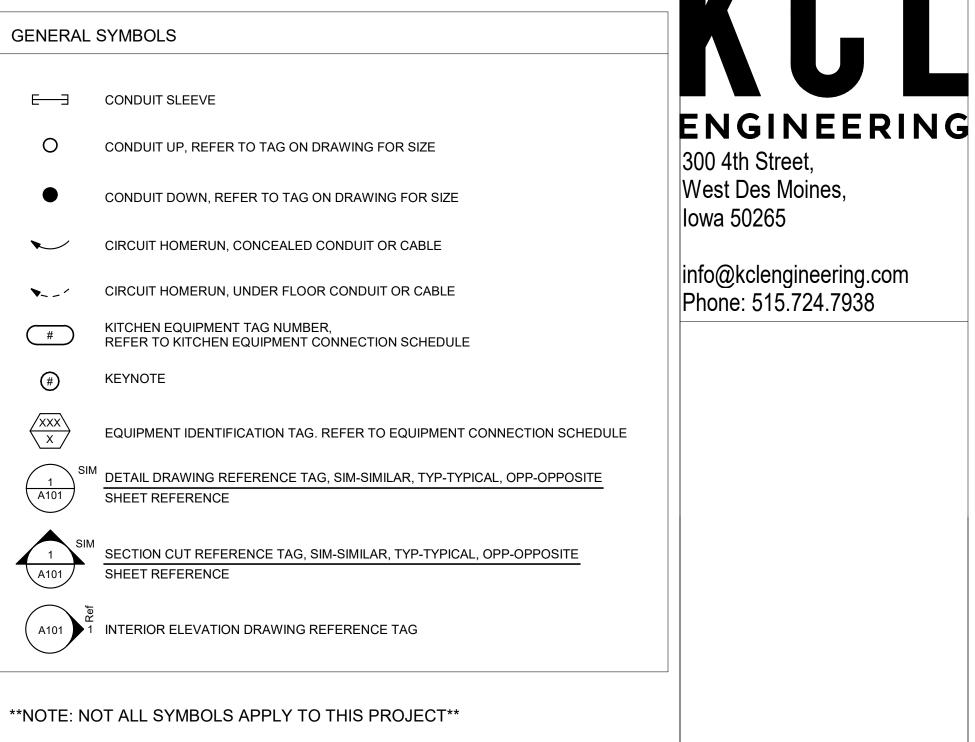
TEMPERATURE CONTROLS SYMBOLS

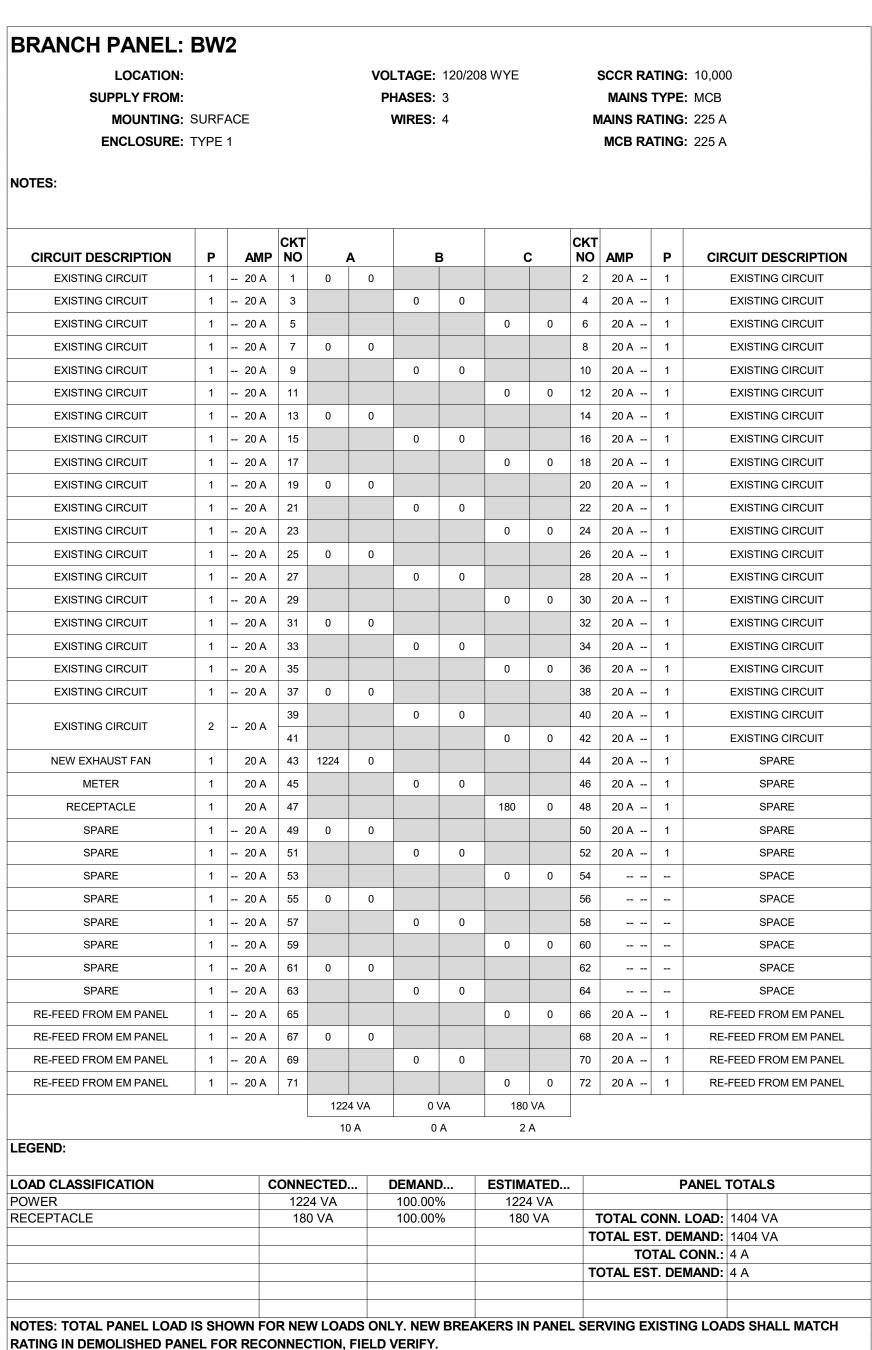
- THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. INSTALL 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

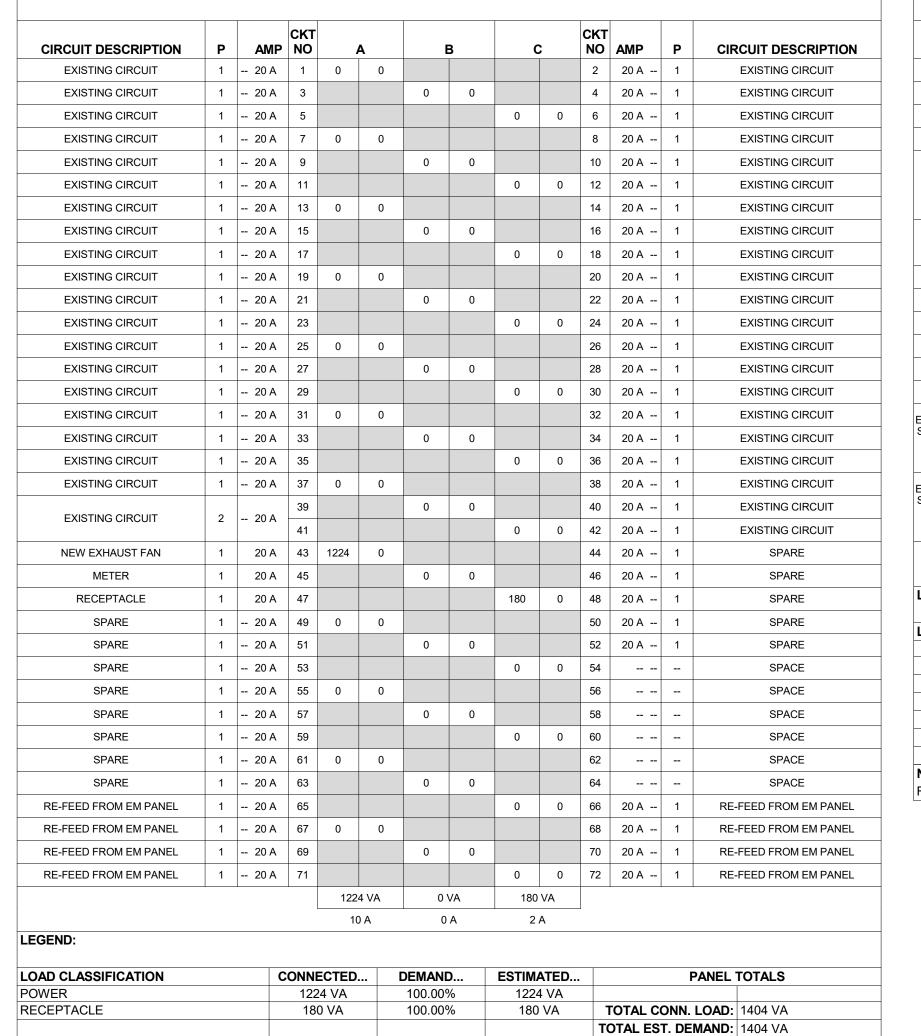
POWER	SYMBOLS	
φ	SINGLE RECEPTACLE, WALL MOUNT +18", OR AS NOTED	
φ	DUPLEX RECEPTACLE, TAMPER-RESISTANT, NEMA 5-20R GRAY WITH STAINLESS STEEL COVER PLATE, COMPRESSION OR CLAMP FOR BACK WIRING, WALL MOUNT +18", OR AS NOTED	
•	EQUIPMENT CONNECTION, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE	
J	JUNCTION BOX, CEILING MOUNT	
\bigcirc	JUNCTION BOX, WALL MOUNT, REFER TO PLAN OR DETAIL FOR MOUNTING HEIGHT	
<u> </u>	GROUND BAR	
T	DRY-TYPE TRANSFORMER	
M	METER	
SPD	SURGE PROTECTIVE DEVICE	
ㅁ	SAFETY DISCONNECT SWITCH	
Î	EMERGENCY PUSH BUTTON	
_	PANELBOARD - SURFACE MOUNTED	

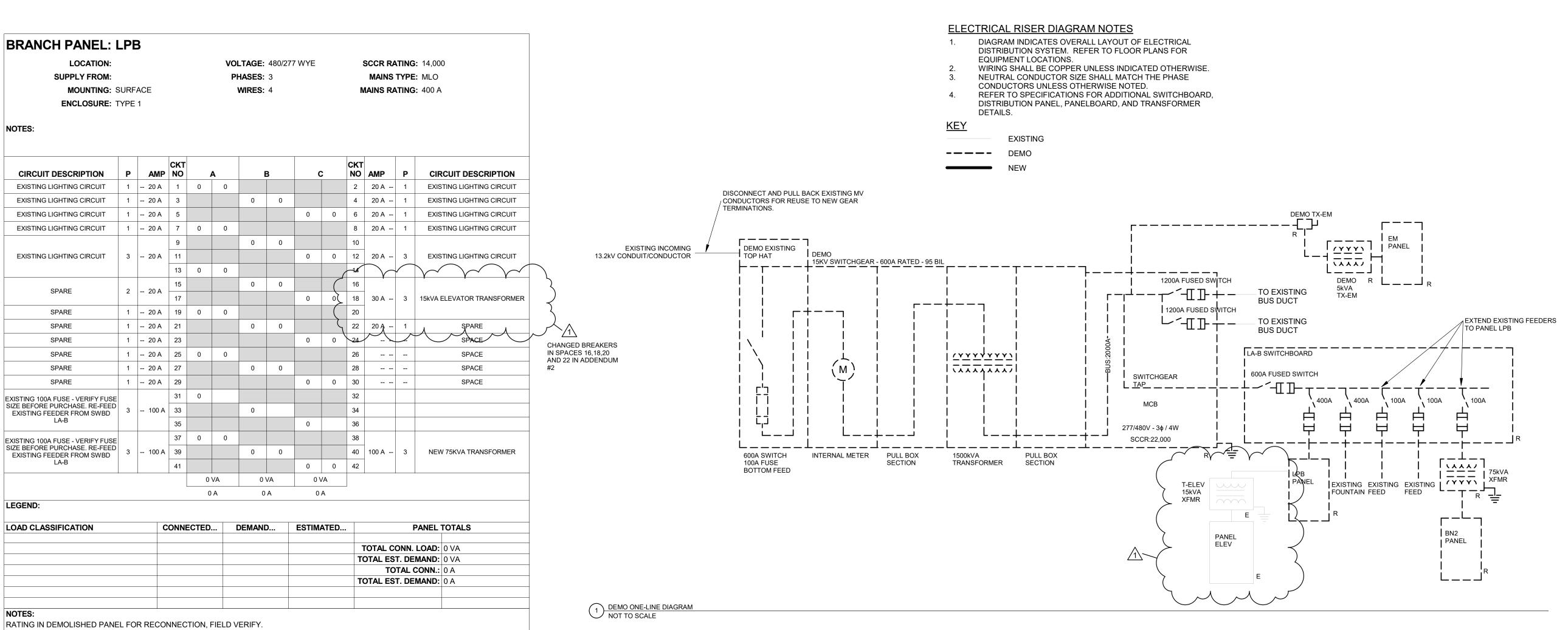
DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

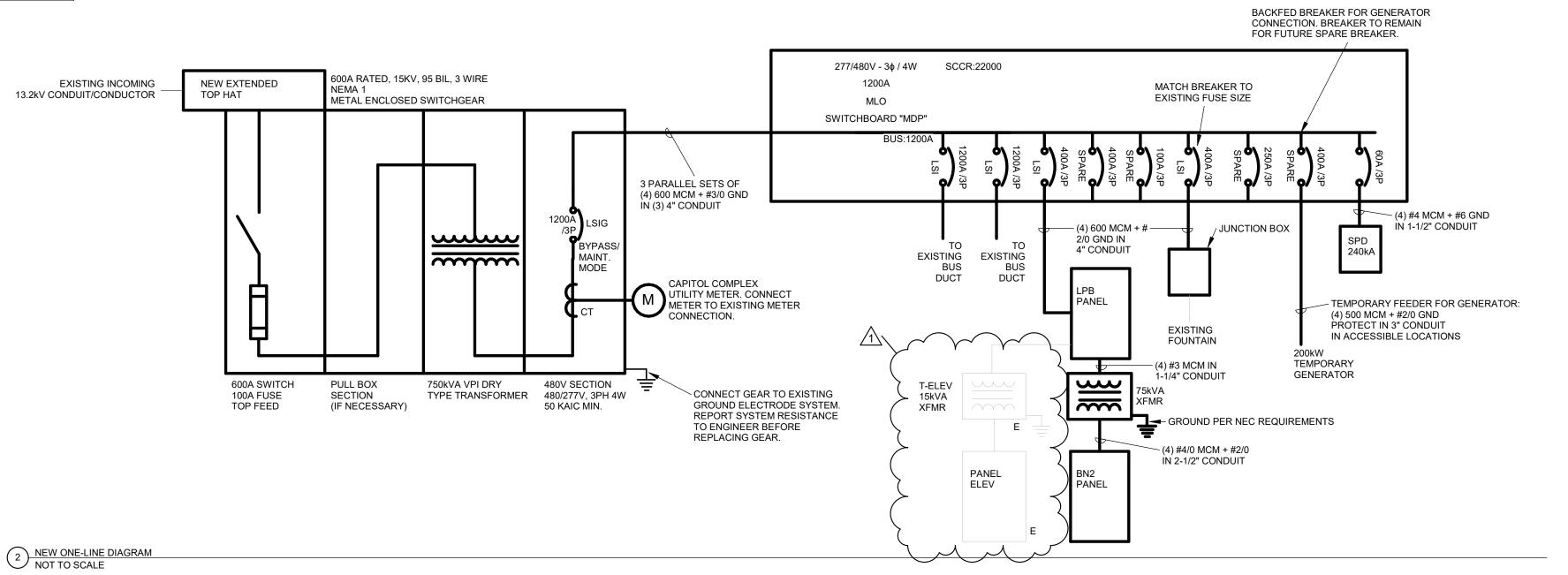












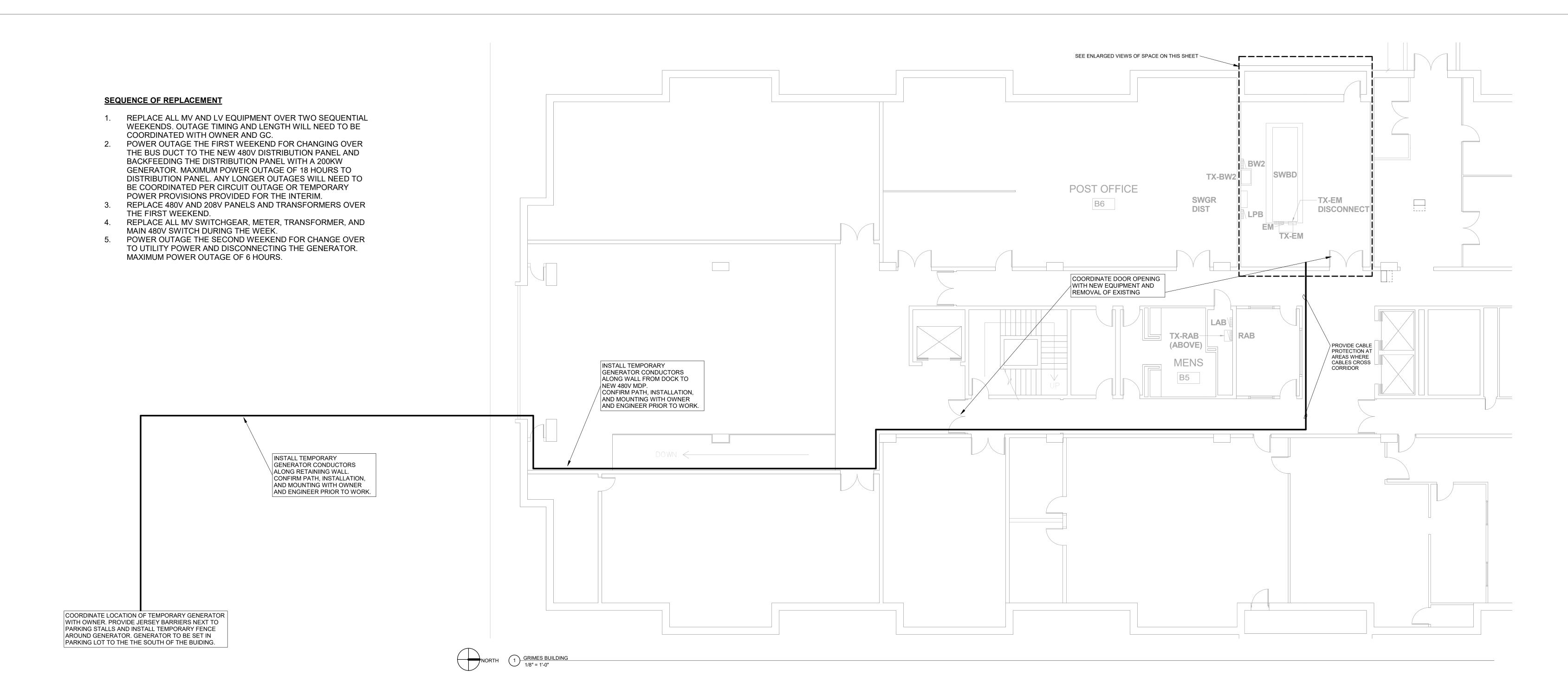
EMEN

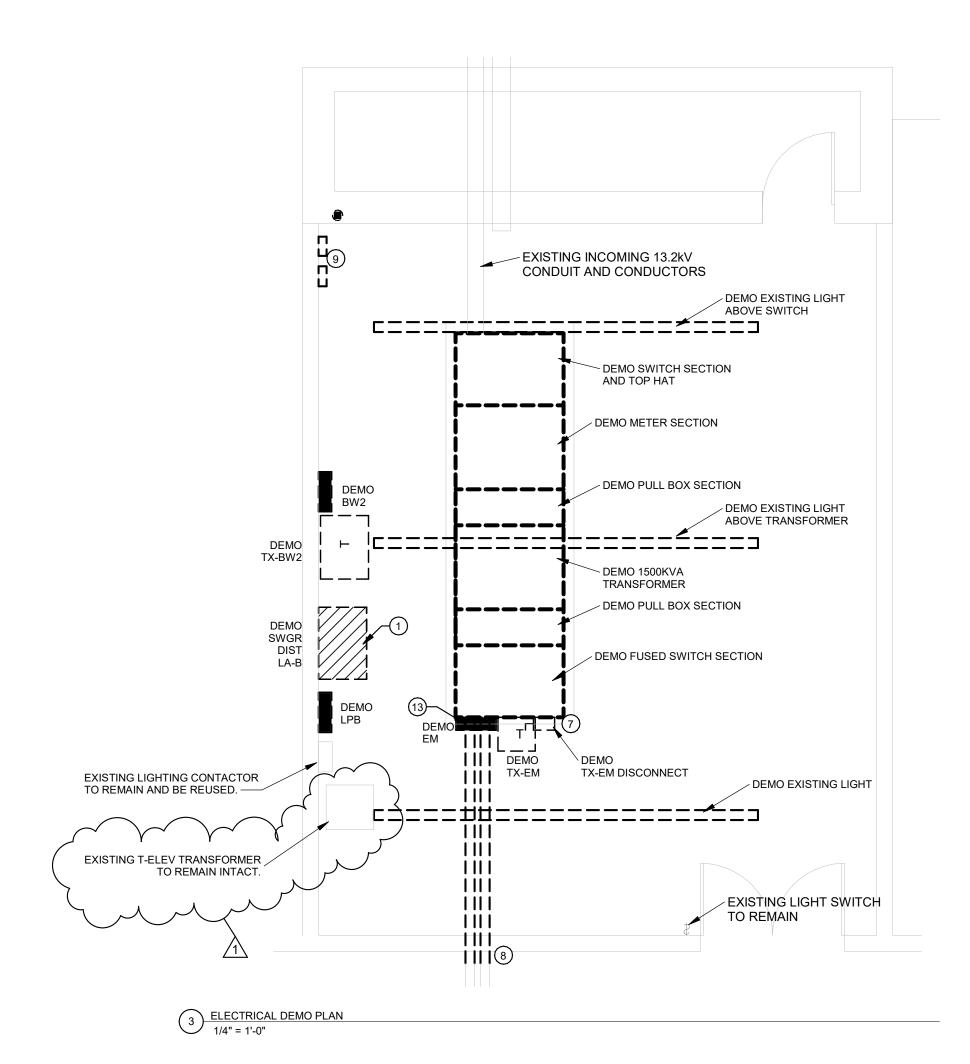
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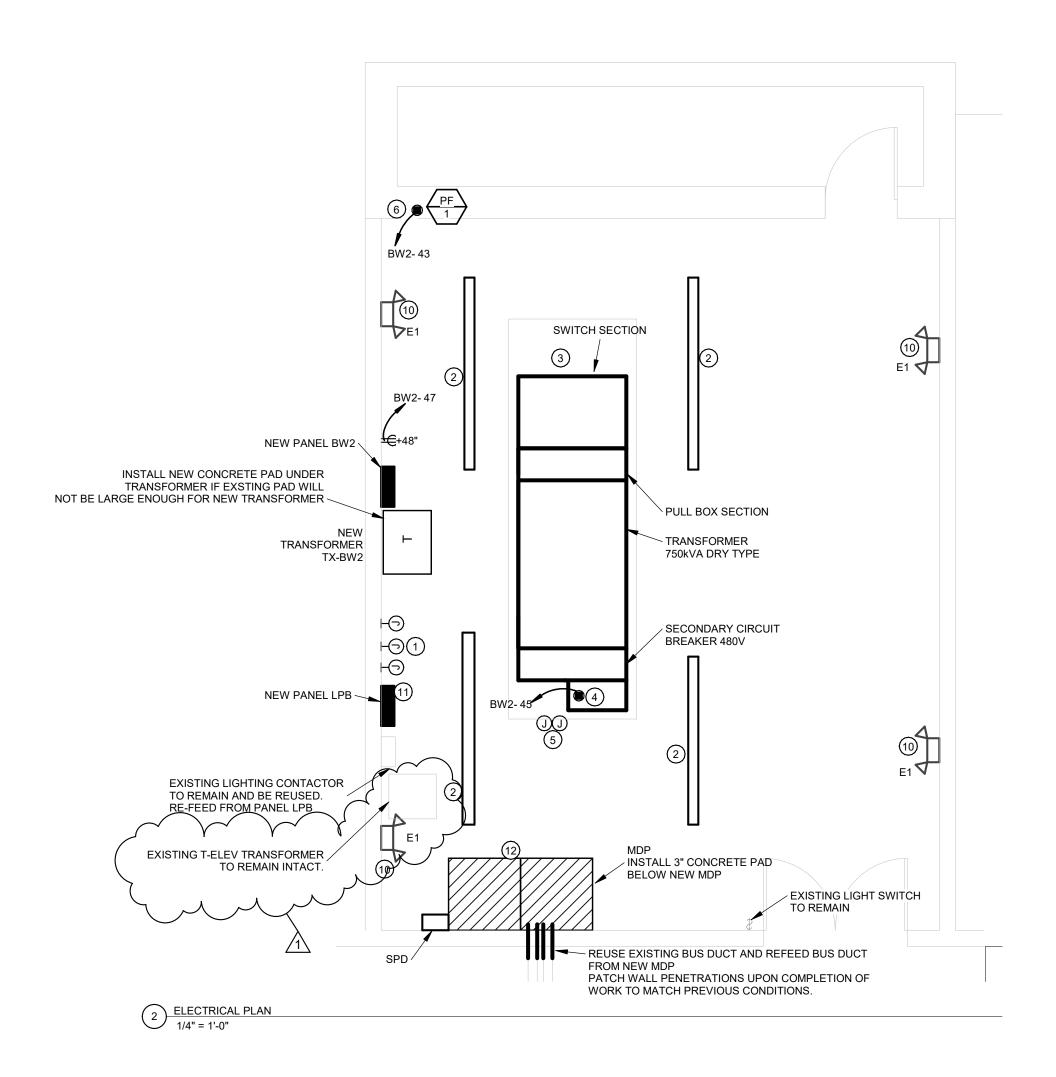
Revision ADDENDUM #2 06/25/2020 Drawing Name: **ELECTRICAL GENERAL** NOTES, ONE-LINE, AND SCHEDULES

DOCUMENTS

Drawing #:







KEYNOTES (#)

- 1 INSTALL NEW JUNCTION BOXES ON WALL TO INTERCEPT EXISTING FOUNTAIN FEED AND (2) 100A FEEDS FROM EXISTING SWITCHGEAR. TRACE THESE FEEDERS AND RENAME/LABEL NEW BREAKERS AND JUNCTION BOXES TO
- MATCH OWNERS NAMING CONVENTION.

 INSTALL NEW LIGHT FIXTURES. CHAIN HUNG AT 9' ABOVE FIXED FLOOR. FIXTURES TO BE CONTINUOUSLY LENSED, 8' LONG, MULTI-VOLT 4000K LED STRIP LIGHT. HE WILLIAMS 75R-8-L100-8-40-VBY-2 OR ENGINEER PRE-APPROVED EQUAL. REUSE EXISTING LIGHTING CONTROLS AND CIRCUIT IN SPACE. EXTEND CONDUIT AND CONDUCTORS FROM
- EXISTING LOCATION TO NEW LIGHT FIXTURE LOCATIONS.

 INSTALL NEW TOP HAT ON GEAR. EXTEND HAT MINIMUM OF 18" TO THE WEST OF THE GEAR TO INTERCEPT EXISTING CONDUIT AND CONDUCTORS. 18" EXTENSION TO HAVE DRIP PAN/HINGED COVER TO CATCH ANY UNDERGROUND WATER FROM INCOMING CONDUIT.
- INSTALL NEW METER IN ENCLOSURE. METER TO BE SCHNEIDER ELECTRIC PM8244 OR PRE-APPROVED EQUAL MOUNTED TO DIN RAIL WITH REMOTE DISPLAY. COMMISSIONING AND TRAINING TO BE PROVIDED BY INSTALLING CONTRACTOR. COORDINATE INSTALLATION AND CONNECTION TO EXISTING DAS METERING STRUXUREWARE SYSTEM AND NETWORK CONNECTION. INSTALL 120V CIRCUIT FROM PANEL BW2 TO METER LOCATION AS SHOWN.
- 5 INSTALL NEW JUNCTION BOXES ON CEILING AND FLOOR TO INTERCEPT AND EXTEND (8) EXISTING CIRCUITS FROM PANEL EM TO PANEL BW2. INSTALL NEW #12 AWG + #12 GND IN 3/4" CONDUIT FOR EXTENDED CIRCUITS.

 VERIFY EXISTING USE FOR CIRCUIT/CONDUIT GOING BELOW GRADE. EXTEND CONDUIT AND CONDUCTORS TO MAKE
- VERTICAL CONDUIT INSTALLATION AT THE NEW GEAR.
 INSTALL NEW 120V CIRCUIT AND CONDUCTORS FOR
 EXHAUST FAN. CIRCUIT BREAKER IN PANEL BW2 WILL BE
 USED FOR DISCONNECTING MEANS. LABEL JUNCTION BOX
 WITH "FED FROM PANEL BW2 CKT 43, CIRCUIT BREAKER
 DISCONNECT". EC TO WIRE MOTOR OPERATORED DAMPERS
 FROM SAME CIRCUIT AS FAN.
- REMOVE EXISTING METER AND ENCLOSURE. SALVAGE EXISTING COMPONENTS TO OWNER.
- REMOVE BUS DUCT BACK TO NEW MDP LOCATION.
 CONTRACTOR TO VERIFY EXISTING CONNECTIONS AND
 TERMINATIONS IN THE FIELD. DETERMINE BEST
 INSTALLATION METHOD WITH EXISTING CONDITIONS. REUSE
 TURNS AND TAPS AS APPLICABLE FOR NEW LOCATION.

DEMO EXISTING DISCONNECT, STARTER, AND CONDUCTORS

- FOR EXHAUST FAN. CONDUIT CAN REMAIN FOR REUSE IF DEEMED IN GOOD CONDITION.

 INSTALL NEW EMERGENCY LIGHTING IN SPACE ON EXISTING LIGHTING CIRCUIT IN ROOM. PROVIDE DUALLITE EV2-I OR PRE-APPROVED ENGINEERING EQUAL. FIXTURES TO BE UL924 LISTED, 120V-277V, SELF-DIAGNOSTIC, AND 2 WATT
- NEW PANEL LPB TO FEED (2) 100A CIRCUITS FROM DEMOLISHED SWITCHGEAR. EXTEND CIRCUITS WITH NEW (4) #3 + (1) #8 GND IN 1-1/4" CONDUIT.
- (4) #3 + (1) #8 GND IN 1-1/4" CONDUIT.

 12 NEW MDP TO FEED "FOUNTAIN" CIRCUIT FROM DEMOLISHED SWITCHGEAR. EXTEND CIRCUIT FROM JUNCTION BOX TO MDP. SEE ONE-LINE FOR MORE DETAILS.
- MDP. SEE ONE-LINE FOR MORE DETAILS.

 DEMO EXISTING PANEL EM. VERIFY USE OF EXISTING (8)
 CIRCUIT IN PANEL. ALL CIRCUITS REMAINING IN USE TO BE
 EXTENDED TO PANEL BW2. SEE NEW PLANS FOR MORE

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lowa 50265

STATE OF IOWA CAPITOL COMPLEX
GRIMES BUILDING SWICHGEAR REPLACEMENT

Drawing #:

E2

06/02/2020

CONSTRUCTION

Revision

GRIMES ELECTRICAL

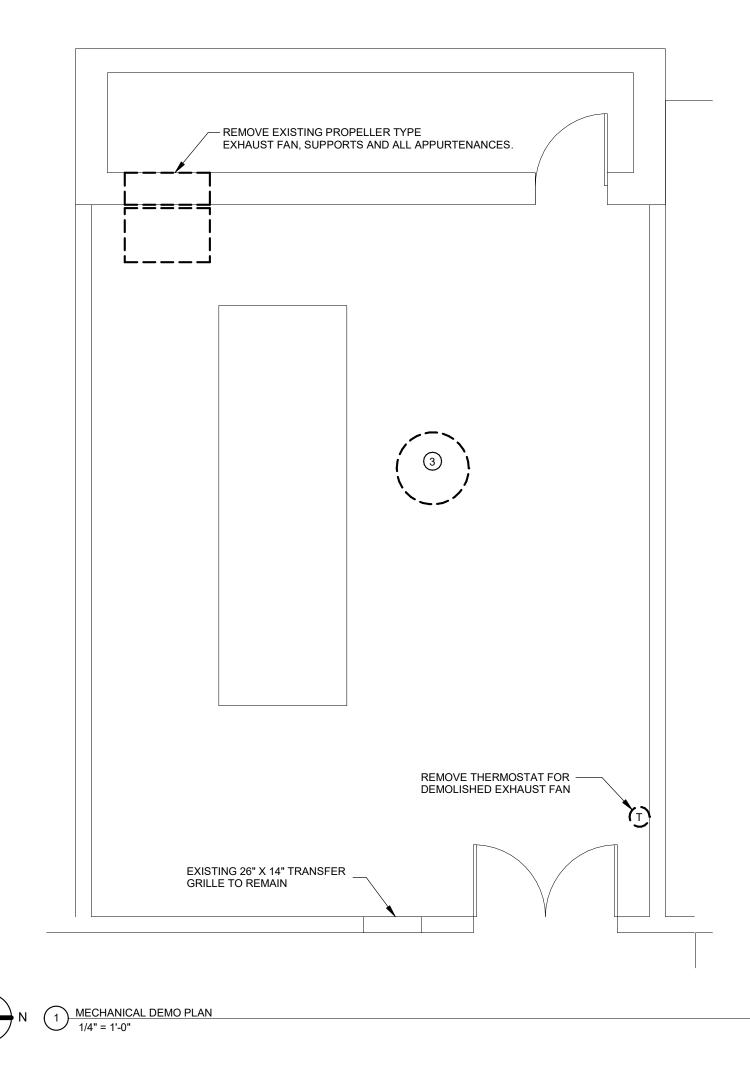
1 ADDENDUM #2 06/25/2020

DOCUMENTS

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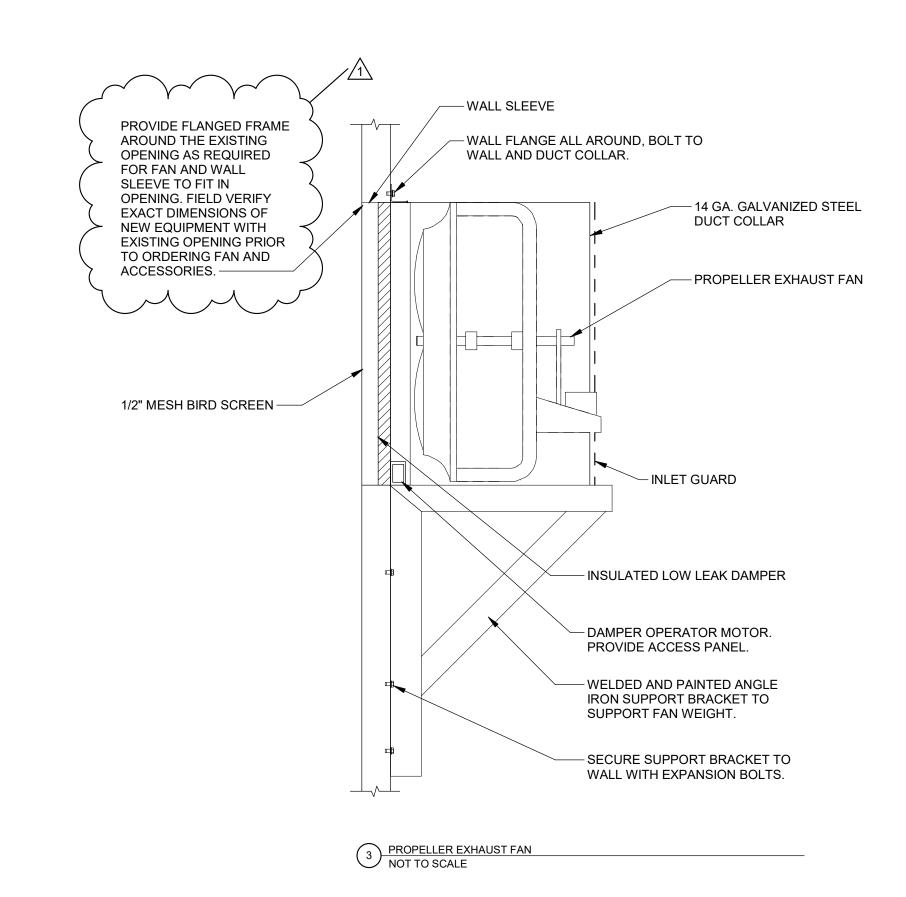
MECHANICAL - GENERAL NOTES

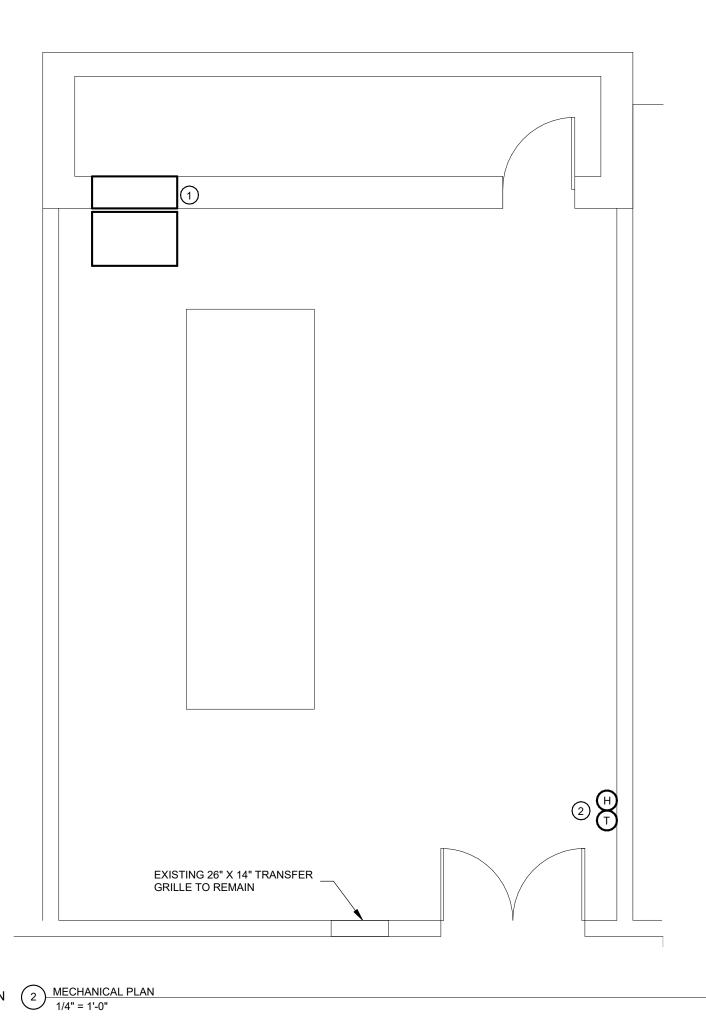
- 1. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL
- DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT WILL BE AT CONTRACTORS EXPENSE. INCORPORATE INTO INSTALLATION MECHANICAL SPECIFICATIONS, DRAWINGS, STATE CODES, AND OTHER APPLICABLE REQUIREMENTS.
- ON COMPLETION OF THE INSTALLATION, MECHANICAL CONTRACTOR SHALL COOPERATE WITH THE OWNER TO PROVIDE ANY NECESSARY ADJUSTING AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL PROVIDE ALL FACILITIES AND EQUIPMENT, AND MAKE ALL TESTS, REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE
- PROPER PERFORMANCE OF ANY PIECE OF EQUIPMENT. PROVIDE TESTING, ADJUSTING AND BALANCING REPORT FOR FAN TO CONFIRM DESIGN EXHAUST AIRFLOW.
- EACH TRADE IS RESPONSIBLE TO MAKE PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, AND CEILINGS. PENETRATIONS SHALL BE NEAT. ANY
- OVERCUT SHALL BE CONCEALED OR CAULKED. ALL EXPOSED WALL PENETRATIONS SHALL BE COVERED BY ESCUTCHEONS OR
- SHEET METAL AS APPROPRIATE. ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS SHALL
- BE CAULKED TO PREVENT NOISE TRANSFER BETWEEN SPACES. CONTRACTOR SHALL BE RESPONSIBLE TO CREATE NECESSARY OPENINGS TO THE BUILDING TO REMOVE EXISTING ITEMS AND TO BRING IN NEW EQUIPMENT. ALL OPENINGS CREATED SHALL BE PATCHED AND FINISHED WITH MATERIALS TO MATCH EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE
- ALLOWED FOR THIS WORK. MECHANICAL CONTRACTOR SHALL WARRANT ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNERS REPRESENTATIVE. WARRANTY WILL NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM ACCIDENT OR IMPROPER OPERATION OF CARE ON THE PART OF THE OWNER, AND NOT DUE TO DEFECTIVE MATERIAL OR INSTALLATION.

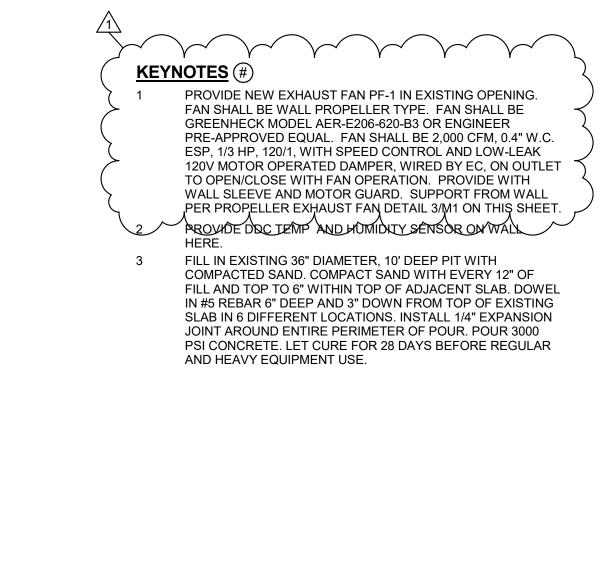


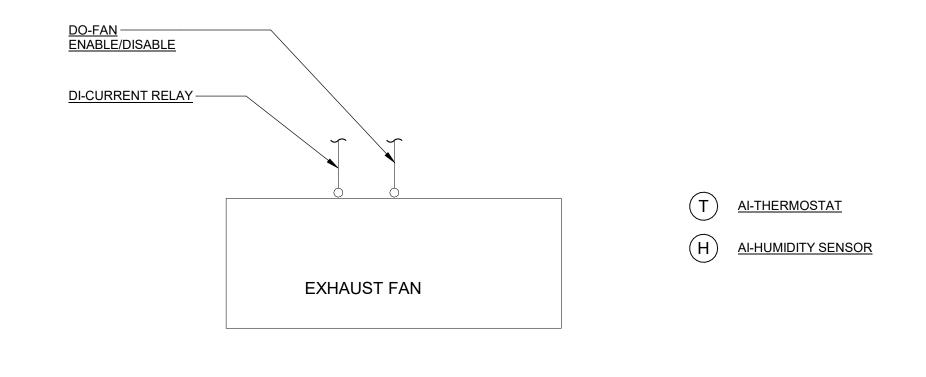
HVAC - NOTES

- CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1. MECHANICAL CONTRACTOR TO PROVIDE A COMPLETE HVAC SYSTEM, INCLUDING EXHAUST DUCTWORK, MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL STATE CODES AND
- CONTRACTOR TO SEAL ALL WALL DUCT PENETRATIONS. PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED WALLS.









CONTROL SEQUENCE

EXHAUST FAN SHALL BE ENABLED WHEN TEMPERATURE REACHES 80°F(ADJ) AND DISABLED WHEN TEMPERATURE REACHES 75°F(ADJ). SPACE TEMPERATURE AND CURRENT RELAY TO BE MONITORED THROUGH DDC SYSTEM.

AN ALARM SHALL BE GENERATED AT THE DDC IF THE SPACE TEMPERATURE RISES ABOVE 85°F(ADJ.) FOR MORE THAN 15 MIN(ADJ.). AN ALARM SHALL BE GENERATED AT THE DDC IF THE SPACE HUMIDITY RISES ABOVE 65% (ADJ.) RELATIVE HUMIDITY FOR MORE THAN 1 HOUR (ADJ.)

TRENDS

ALL POINTS SHALL BE HISTORICALLY TRENDED. TREND POINTS AT 1 HOUR INTERVALS OVER A MINIMUM 90 DAY PERIOD OF TIME.

4 EXHAUST FAN CONTROL NOT TO SCALE

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Project No: 05.29.2020 CONSTRUCTION DOCUMENTS

ADDENDUM #2 06/25/2020

Drawing Name: MECHANICAL PLAN

Drawing #: