

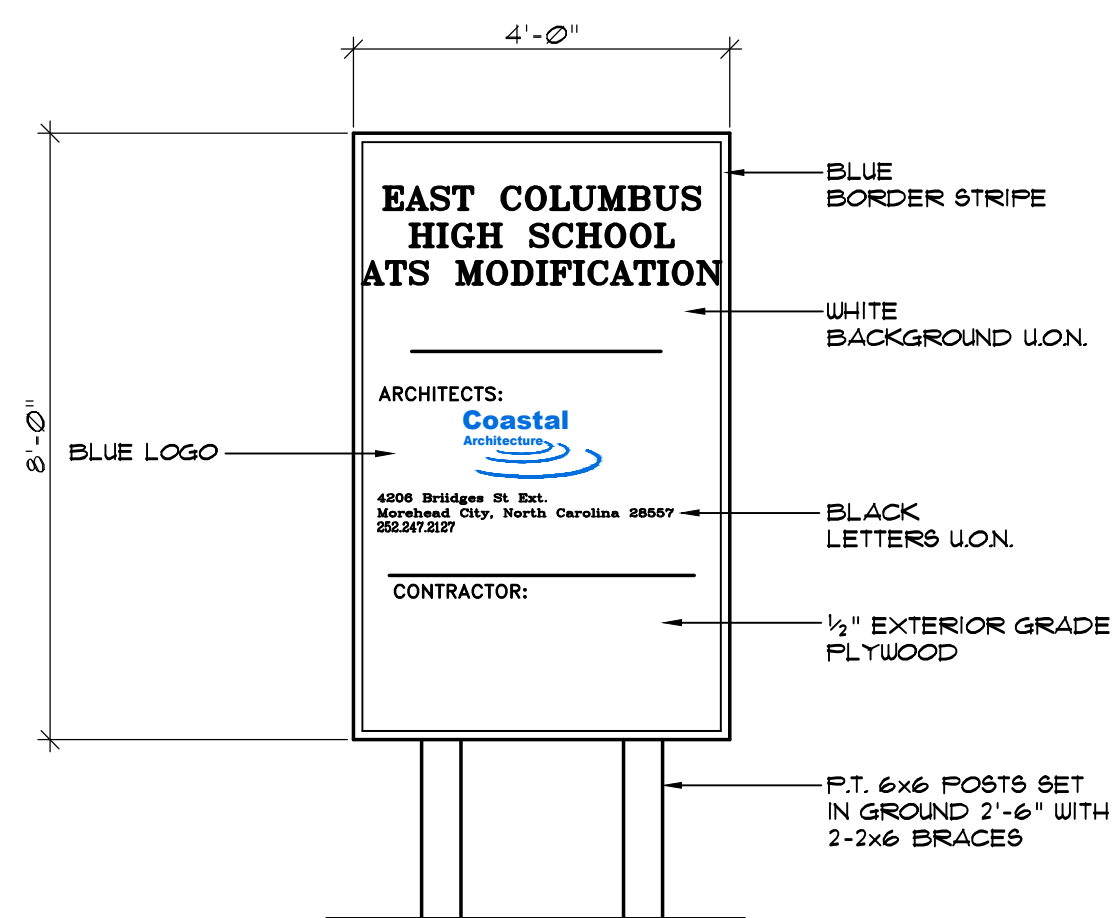
EAST COLUMBUS HIGH SCHOOL ATS MODIFICATION

32 GATOR LANE

LAKE WACCAMAW, NORTH CAROLINA

DRAWING LIST

CS-1	COVER SHEET
M1.0	HVAC SPECS, SCHEDS, LEGEND AND DETAILS
M2.1	HVAC PLAN - SIDE A
M2.2	HVAC PLAN - SIDE B
E1	ELECTRICAL SPECS AND DETAILS
E2.1	ELECTRICAL - PLAN A
E2.2	ELECTRICAL - PLAN B
E3	ELECTRICAL PANELS AND RISERS



PROJECT SIGN
CS-1 NOT TO SCALE

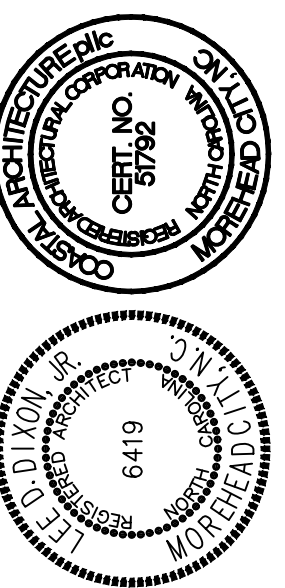
NOTE: SUBMIT SHOP DRAWING FOR COORDINATION OF LETTER HEIGHTS SPECIFIC SIGN COLORS.



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 • Planning
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EAST COLUMBUS HIGH SCHOOL
ATS MODIFICATIONS
LAKE WACCAMAW, NORTH CAROLINA



COVER SHEET

25023

ISSUED: 06/05/2026

DWG BY: MSG

CKD BY: LDD

REVISIONS

SHEET NO.

CS-1
OF

DIVISION 15 B - HEATING, VENTILATING AND AIR CONDITIONING

1.1 DESCRIPTION OF THE WORK

A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:

1. Heating, ventilation, and air conditioning equipment.
2. Ductwork.
3. Grilles and diffusers.
4. Controls and control wiring.
5. Condensate piping.

B. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:

1. ASHRAE Guide
2. National Electric Code
3. 2016 NC State Building Code: Mech. Code
4. The Electrical Specifications for this project
5. SMACNA HVAC Duct Construction Standards
6. All local codes and ordinances
7. AIA rating
8. 2016 NC State Building Code: Energy Conservation Code

C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.

D. The HVAC Contractor shall be licensed in North Carolina and have all local licenses required for the work.

1.2 INTENT

A. The intent of these specifications and the accompanying drawing is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The HVAC Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

A. Coordinate work with other contractors. Notify Owner of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Owner for a decision before resuming operations.

B. Locations shown are approximate. The HVAC Contractor shall verify with owner, the placement of equipment, fixtures, outlets, etc. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduits, etc. and do not show all offsets and other installation details which may be required.

C. Changes in duct or piping design caused by obstructions shall be submitted to Engineer in sketch form for study and comment prior to execution. Additional cost will not be allowed for this type of work.

1.4 SHOP DRAWINGS

A. Shop drawings shall be submitted for all major items of equipment. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified. Shop drawings shall include but are not limited to the following:

1. All equipment and accessories.
2. Grilles and diffusers.
3. Unit sizes and requirements.

PART 2 - PRODUCTS

2.1 EQUIPMENT

A. All air handling devices must have the manufacturer's recommended filter rack, for 1" thick filters.

2.2 PIPING

A. Condensate drain piping shall be PVC pipe. Provide tee and plug at changes in direction. Route pipe to proper termination point. All condensate piping shall be insulated with flexible elastomeric insulation. Provide copper piping in plenum areas.

2.3 DUCTWORK

A. Ductwork shall be built in accordance with SMACNA HVAC Duct construction standards. Furnish and install all supply, return, and ventilation ductwork shown, together with splitters, defectors, dampers, etc. This work shall be constructed of new galvanized steel. The gages of metal to be used and the construction and bracing of joints shall be in accordance with the SMACNA recommendations.

B. Seal all sheet metal joints with fiber impregnated mastic.

C. Support from building structure on strap hangers not over 8 feet apart.

D. Use manufactured turning vanes in each elbow where required or where indicated on drawings.

E. Flexible connectors shall be 3 inches wide, of fireproof material and used to isolate noise between equipment and ductwork on supply and return side of all units.

F. Round runouts where used shall be built in accordance with the above standards, and each runout shall also have manufactured side take off, adjustable quadrant damper at all accessible locations and shall be of Owens Corning MC-25 duct with UL label. Flex duct lengths allowed up to 14 feet. Duct must be supported with sufficient hangers in order to prevent sag. Serpentine routing will not be permitted. Quadrant damper to be 22 gauge easily adjustable manually with exterior handle (similar to H&C Kwik-set) and is not to be mounted in side take-off.

G. Insulation shall be held in place with adhesive and welding pins 16" on center.

H. Duct dimensions shown on the drawings are Net Inside Dimensions

I. Ductwork shall be lined with two-inch thick, 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultrather, Johns Manville or approved equal.

J. As an alternative to duct liner rectangular duct may be wrapped with Class 1 - 2", 3/4 lb. density (R-8.5) thick reinforced foil backed Owens-Corning Series ED or equal. Tape shall be Kraft reinforced foil tape or equal.

K. Exhaust air duct does not require insulation, unless otherwise noted on the plans.

L. Insulation shall be held in place with adhesive and welding pins 16" on center.

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N. Ductwork shall be lined with two-inch thick, 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultrather, Johns Manville or approved equal.

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U. Exhaust air duct does not require insulation, unless otherwise noted on the plans.

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X. Ductwork shall be lined with two-inch thick, 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultrather, Johns Manville or approved equal.

Y. As an alternative to duct liner rectangular duct may be wrapped with Class 1 - 2", 3/4 lb. density (R-8.5) thick reinforced foil backed Owens-Corning Series ED or equal. Tape shall be Kraft reinforced foil tape or equal.

Z. Exhaust air duct does not require insulation, unless otherwise noted on the plans.

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AO. Exhaust air duct does not require insulation, unless otherwise noted on the plans.

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BD. Exhaust air duct does not require insulation, unless otherwise noted on the plans.

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BI. Exhaust air duct does not require insulation, unless otherwise noted on the plans.

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PART 3 - EXECUTION

3.1 PIPING

A. The HVAC Contractor shall coordinate such routing with others, to line his work true to adjacent spaces and in a workmanlike manner and to use only short radius 90 degree elbows. Where required, piping to be sturdily supported and supported in a manner satisfactory to the Engineer.

B. The HVAC Contractor shall paint all exterior refrigerant piping, with UV resistant paint as recommended by the manufacturer's recommendations.

C. Insulate all condensate lines for their entire length with 1/2" closed cell insulation. Install insulation per the manufacturer's recommendations.

D. The electrical contractor shall provide all switches, starters, wire conduit for the air conditioning, heating and ventilation equipment. Control wiring shall be by the heating and air conditioning contractor.

E. HVAC Contractor is responsible for verifying that power terminals have been properly grounded prior to operating equipment and must find connections to all equipment including control wiring.

F. All materials and workmanship shall be in accordance with the electrical specifications for this project. All wiring shall be color coded, and on-built wiring diagram prepared showing all connections and colors of wiring and delivered to the Owner.

G. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises leaving no evidence of work, in addition upon completion of construction leave equipment clean.

H. Furnish one box of clean filters, for each size required, at the time of final inspection to the owner.

I. The manual shall be bound, indexed, dated and signed by the HVAC Contractor.

J. Qualified representative of the HVAC contractor shall meet with the designated representative of the Owner and the Owner's representative shall be instructed in the proper operation and maintenance of the control system and other systems.

K. Guarantee of materials and labor included in the HVAC work for a period of one year from date of final acceptance by the owner. In addition, motor compressors shall be a negotiated five year warranty. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the owner or tenant.

L. All air flows must be measured and balanced to within 10% of design airflow. All equipment used must have a current certification. Provide two copies of the balance report to the owner at closeout. The HVAC contractor shall return and re-balance to occupant comfort after 90 days from close-out. Provide all balance dampers needed for satisfactory operation regardless if shown on the drawings or not, and shift location of thermostats if required for occupancy comfort.

M. Duct detectors are not required unless units air flows are 2000 cfm or less per NCBCB: Mechanical Code, Section 906.2.

N. Ductwork shall be lined with two-inch thick, 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultrather, Johns Manville or approved equal.

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P. Exhaust air duct does not require insulation, unless otherwise noted on the plans.

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V. Insulation shall be held in place with adhesive and welding pins 16" on center.

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Y. As an alternative to duct liner rectangular duct may be wrapped with Class 1 - 2", 3/4 lb. density (R-8.5) thick reinforced foil backed Owens-Corning Series ED or equal. Tape shall be Kraft reinforced foil tape or equal.

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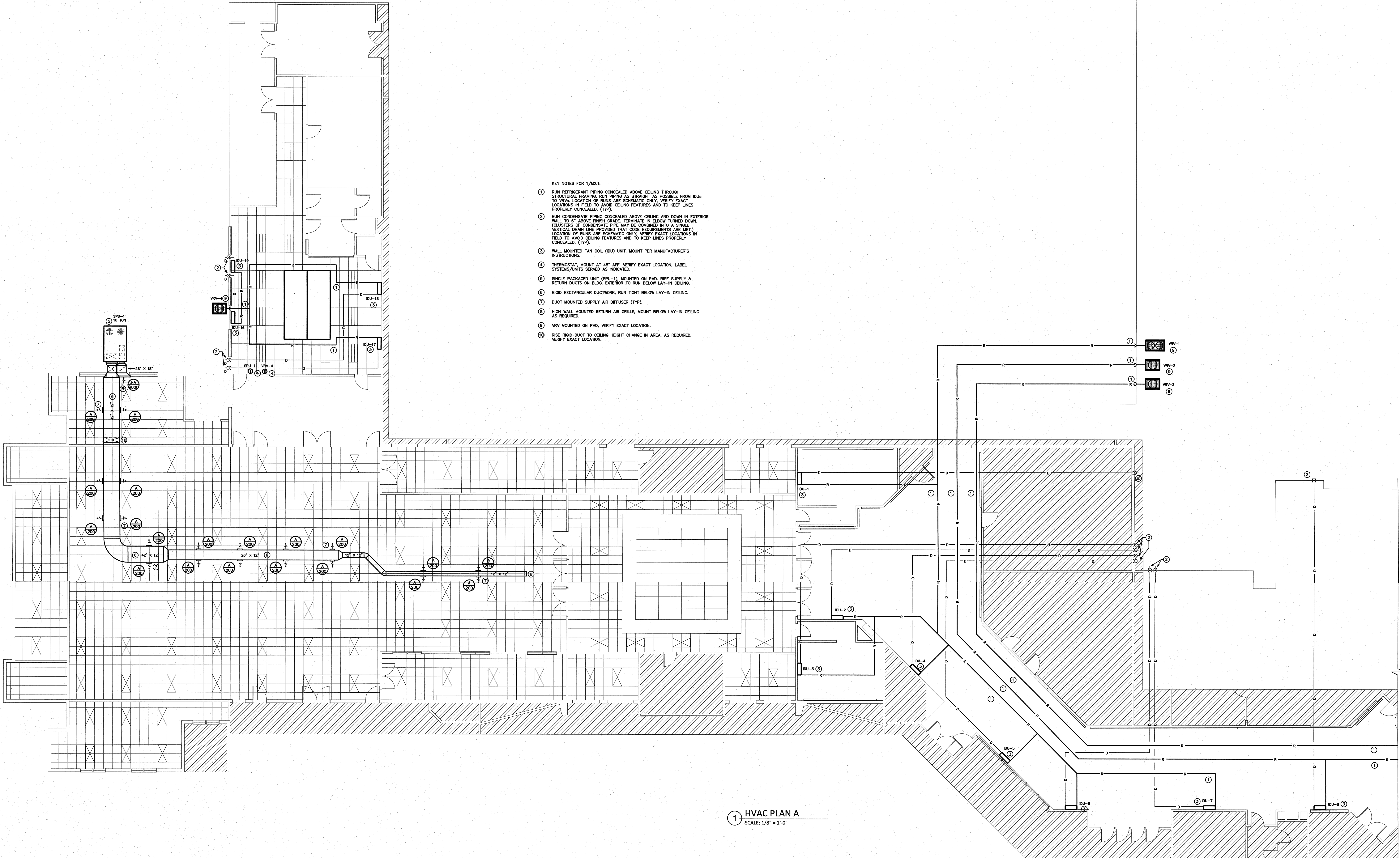
AA. Insulation shall be held in place with adhesive and welding pins 16" on center.

AB. Duct dimensions shown on the drawings are Net Inside Dimensions

VRV-1
VRV-2
VRV-3

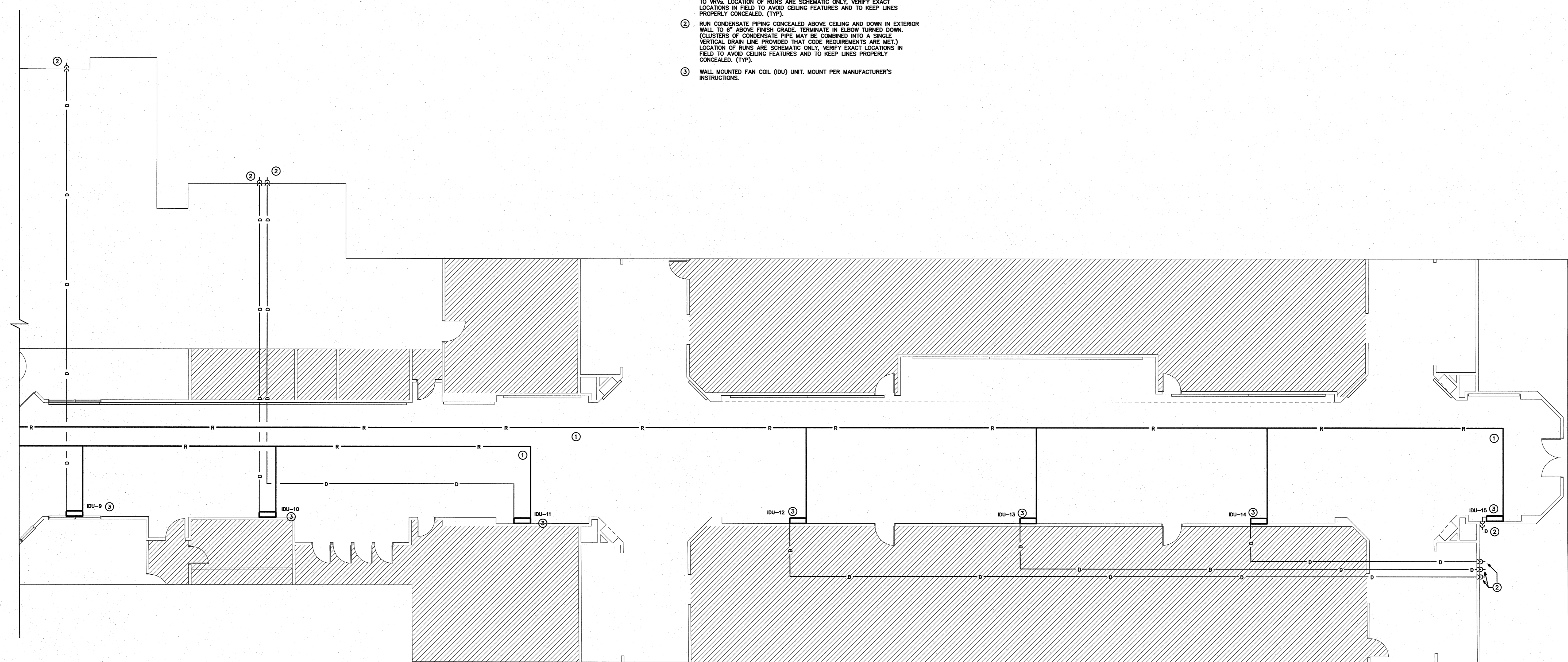
KEY NOTES FOR 1/A2.1:

- ① RUN REFRIGERANT PIPING CONCEALED ABOVE CEILING THROUGH STRUCTURAL FRAMING. RUN PIPING AS STRAIGHT AS POSSIBLE FROM IDU TO VRV. LOCATION OF RISERS ARE SCHEMATIC ONLY. VERIFY EXACT LOCATIONS IN FIELD TO AVOID CEILING FEATURES AND TO KEEP LINES PROPERLY CONCEALED. (TYP)
- ② RUN CONDENSATE PIPING CONCEALED ABOVE CEILING AND DOWN IN EXTERIOR WALL TO 6" ABOVE FINISH GRADE. TERMINATE IN ELBOW TURNED DOWN. CLUSTERS OF CONDENSATE PIPE MAY BE COMBINED INTO A SINGLE VERTICAL DRAIN LINE PROVIDED THAT CODE REQUIREMENTS ARE MET. LOCATION OF RISERS ARE SCHEMATIC ONLY. VERIFY EXACT LOCATIONS IN FIELD TO AVOID CEILING FEATURES AND TO KEEP LINES PROPERLY CONCEALED. (TYP)
- ③ WALL MOUNTED FAN COIL (DU) UNIT. MOUNT PER MANUFACTURER'S INSTRUCTIONS.
- ④ THERMOSTAT MOUNT AT 48" AFF. VERIFY EXACT LOCATION. LABEL SYSTEMS/UNITS SERVED AS INDICATED.
- ⑤ SINGLE PACKAGED UNIT (SPU-1), MOUNTED ON PAD. RISE SUPPLY & RETURN DUCTS ON BLDG EXTERIOR TO RUN BELOW LAY-IN CEILING.
- ⑥ RIGID RECTANGULAR DUCTWORK, RUN TIGHT BELOW LAY-IN CEILING.
- ⑦ DUCT MOUNTED SUPPLY AIR DIFFUSER (TYP).
- ⑧ HIGH WALL MOUNTED RETURN AIR GRILLE, MOUNT BELOW LAY-IN CEILING AS REQUIRED.
- ⑨ VRV MOUNTED ON PAD, VERIFY EXACT LOCATION.
- ⑩ RISE RIGID DUCT TO CEILING HEIGHT CHANGE IN AREA, AS REQUIRED. VERIFY EXACT LOCATION.



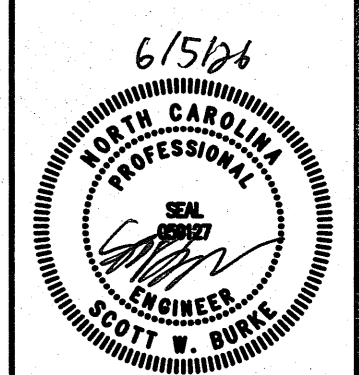
1 HVAC PLAN A
SCALE: 1/8" = 1'-0"

- KEY NOTES FOR 1/M2.2:
- ① RUN REFRIGERANT PIPING CONCEALED ABOVE CEILING THROUGH STRUCTURAL FRAMING. RUN PIPING AS STRAIGHT AS POSSIBLE FROM IDU TO VAV. LOCATION OF RUNS ARE SCHEMATIC ONLY. VERIFY EXACT LOCATIONS IN FIELD TO AVOID CEILING FEATURES AND TO KEEP LINES PROPERLY CONCEALED. (TYP.)
 - ② RUN CONDENSATE PIPING CONCEALED ABOVE CEILING AND DOWN IN EXTERIOR WALL TO 6" ABOVE FINISH GRADE. TERMINATE IN ELBOW TURNED DOWN. (CLUSTERS OF CONDENSATE PIPE MAY BE COMBINED INTO A SINGLE VERTICAL DRAIN LINE PROVIDED THAT CODE REQUIREMENTS ARE MET.) LOCATION OF RUNS ARE SCHEMATIC ONLY. VERIFY EXACT LOCATIONS IN FIELD TO AVOID CEILING FEATURES AND TO KEEP LINES PROPERLY CONCEALED. (TYP.)
 - ③ WALL MOUNTED FAN COIL (IDU) UNIT. MOUNT PER MANUFACTURER'S INSTRUCTIONS.



① HVAC PLAN B
SCALE: 1/8" = 1'-0"

**EAST COLUMBUS HIGH SCHOOL
ATS MODIFICATION**
32 GATOR LANE, LAKE WACCAMAW
NORTH CAROLINA, 28450



HVAC PLAN - SIDE B

ISSUED: 06/05/2026
DWG BY: MRH
CKD BY: BEB
REVISIONS

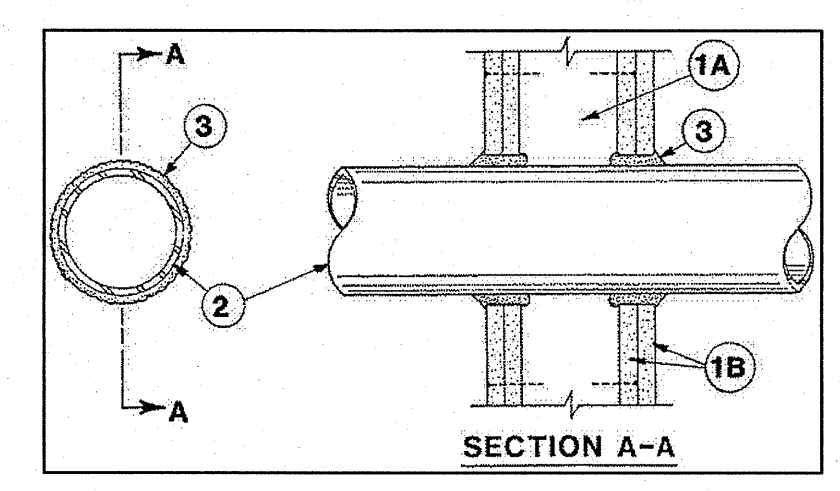
SHEET NO.
M2.2

System No. W-L-1001

F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Rating — 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient — less than 1 CFM/sq ft

L Rating At 400 F — less than 1 CFM/sq ft



1. Wall Assembly — The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs (max 2 in fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber and plates and cross braces. Steel studs to be min 3-1/2 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

B. Gypsum Boards — Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in.

2. Through-Penetrant — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit, or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipes, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 2 1/2 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 2 1/2 in. diam (or smaller) service weight (or heavier) cast iron pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit — Nom 6 in. diam (or smaller) steel conduit or nom 4 in. diam (or smaller) steel electrical metallic tubing.

D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

F. Through Penetrating Products — Flexible Metal Piping — The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITELTEX

3. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG LLC

Fill, Void or Cavity Material — Caulk or Sealant — Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below.

Max Pipe or Conduit Diam In	F RATING Hr	T RATING Hr
1	1 or 2	0, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

3M COMPANY — CP 25MB+ or FB-3000 WT.

*Referencing the UL Classification Mark

DIVISION 16 — ELECTRICAL

PART 1 — GENERAL

1.1 DESCRIPTION OF THE WORK

A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
1. Electrical service and service equipment.
2. Lighting and power distribution system.
3. Provide lighting fixtures selected by owner with lamps to match.
4. Wiring devices, boxes, cover plates, etc.
5. Source of power to all items of equipment.
6. Grounding.
7. Other requirements and/or systems where shown.

B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.

C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:
1. The 2020 National Electrical Code.
2. The National Electrical Safety Code.
3. Underwriter's Laboratories, Inc., Standards and approved listings.
4. Electrical Testing Laboratories standards.
5. North Carolina Building Code, Latest Edition and Revisions.
6. All local codes and ordinances.

D. The Electrical Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.

E. Obtain all permits, licenses, inspections, etc., required for the work and pay for the same. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.

F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT

A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.

B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

1.4 SHOP DRAWINGS

A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or leaf sheets and shall have the exact items being offered clearly identified.

PART 2 — PRODUCTS AND MATERIALS

2.1 GENERAL

A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacture of the required type of equipment and the manufacturer's latest approved design.

1. Boxes installed in concealed locations shall be set flush with the finished surfaces.

2. Provide rated boxes in all fire barriers & walls installed per code.

2.2 NOT USED

2.3 CONDUCTORS

A. Conductors shall be color coded, size #8 and larger may be color taped on the job. Color coding shall be: Standard Practice.

B. Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IPSEA and shall be UL approved.

C. Metallic sheathed "MC" cable may be used where allowed by N.E.C.

D. Conductors shall be spliced and taped as follows:
1. Size #10 and #12, use ideal "Wing Nut" or TAB "Piggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
2. Size #8 and larger shall be solderless screw and screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall be UL approved.
3. No split-bolt type connectors may be used.

E. All branch wire and connections shall be copper and sized per National Electric Code.

F. All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.

G. All wiring in mechanical spaces shall be plenum rated.

H. Provide 0% protection within 6"-0" of any slit.

I. All multi-wire branch circuits shall comply with 2020 NEC, 210.4(D).

J. All wiring at medical facilities shall comply with 2020 NEC, 517.1.

2.4 PANELBOARDS, SAFETY SWITCHES

A. Panelboards shall comply with NEMA Standard PB 1 — Latest Edition and as manufactured by Square D or ITE-Siemens.

B. The contractor shall be responsible for correctly phasing the circuits in the panelboards.

C. Safety switches shall be general duty type, size and rating as required for load service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

2.5 NOT USED

2.6 WIRING DEVICES

A. Wiring devices shall be commercial grade by Bryant, Leviton, or approved equal, with matching finish as noted on drawings.

B. Wiring devices installed under a Kitchen Hood shall have stainless steel covers.

C. Wiring devices installed over counters shall comply with ANSI A117.1.

2.7 NOT USED

2.8 CONDUIT

A. PVC conduit will be allowed where N.E.C. approved.

B. All service conduit shall be rigid where exposed below 8'-0" AFF or exposed to the elements or hazardous conditions.

PART 3 — EXECUTION

3.1 CIRCUIT GROUNDING

A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-95 of the NEC. Grounding conductors shall be connected to equipment grounding bus in panelboard and securely attached and grounded to the device or enclosure at the other end.

3.2 GROUNDING TYPE CONDENSING OUTLETS AND SWITCHES

A. Outlets and switches shall be solidly grounded to equipment grounding system with a green coated insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the race nut on the convenience outlet or switch.

3.3 MOTORS

A. All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 35") of flexible liquidtight conduit.

3.4 NOT USED

3.5 EQUIPMENT LABELING

A. Provide permanent name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment, controlled, services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall include the name of the equipment and where it is fed from.

B. All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.

C. All empty conduit runs shall be identified and indicated where they terminate.

D. Provide typewritten directory in each panelboard to clearly identify each circuit, service, etc.

3.6 NOT USED

3.7 NOT USED

3.8 JUNCTION AND/OR PULL BOXES

A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.

3.9 PULL WIRE

A. Leave pull wire in each empty conduit run.

3.10 NOT USED

3.11 GROUNDING

A. All grounding shall be in accordance with Article 250 of the NEC. In addition, the following requirements shall be met:
1. Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.
2. Equipment ground continuity shall be maintained through flexible metal conduit.
3. All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors.
4. The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
5. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
6. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.

3.12 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

A. PLUMBING WORK: The Electrical Contractor shall furnish and install switches and devices as shown and electrically connect electric water heaters, etc. All other electrical work required will be performed by the PLUMBING CONTRACTOR.

B. HEATING AND AIR CONDITIONING WORK: The Electrical Contractor shall provide all disconnect switches, starters, and associated hardware for the equipment furnished including all line and load side wiring and conduit. Final connections to the equipment will be by the HVAC contractor. All control wiring will be accomplished by the HVAC contractor. Coordinate all work associated with the HVAC contractor.

3.13 CLEAN UP

A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

3.14 GUARANTEE

A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.

GENERAL NOTES

1 ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.

2 ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTORS AND CONDUIT PER NEC.)

3 ALL CIRCUITS TO BE 2 #12, 1 #12 AND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.

4 ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/ROD.

5 CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.

6 ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 100 FEET ON 120V AND 200V CIRCUITS.

7 THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.

8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.

9 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.

10 ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.

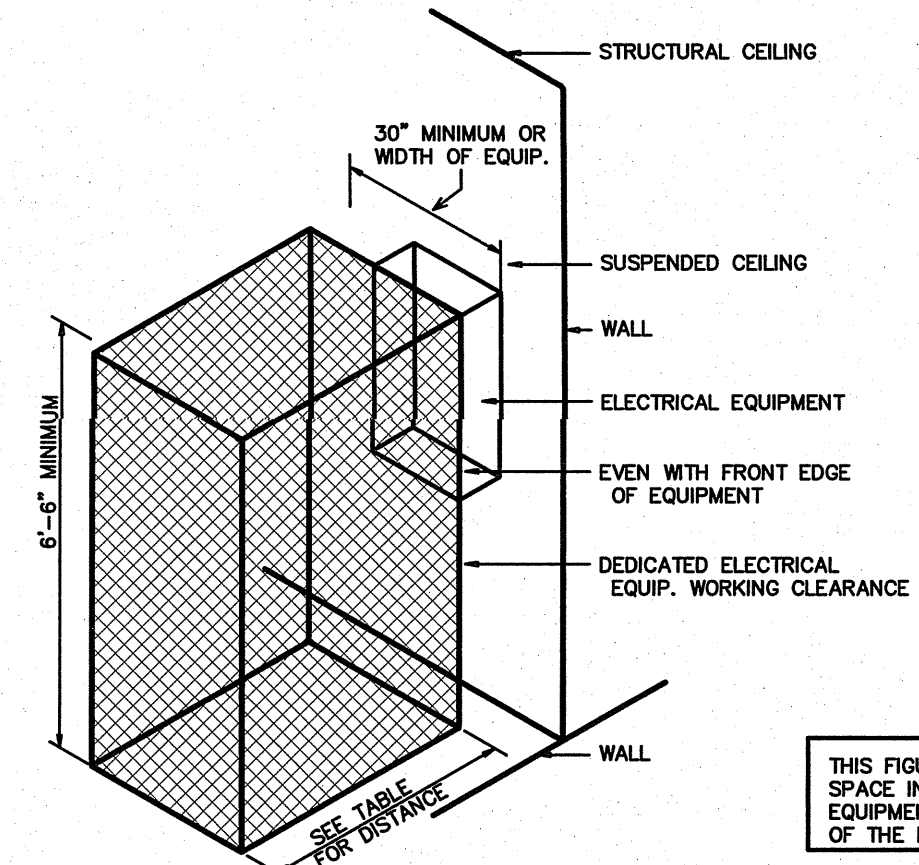
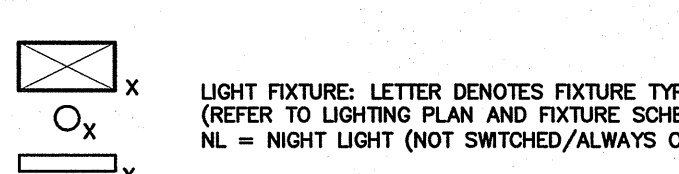
11 IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL, ADJUST BREAKER AND WIRE SIZES AS REQUIRED.

12 PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.

13 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.

14 THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.

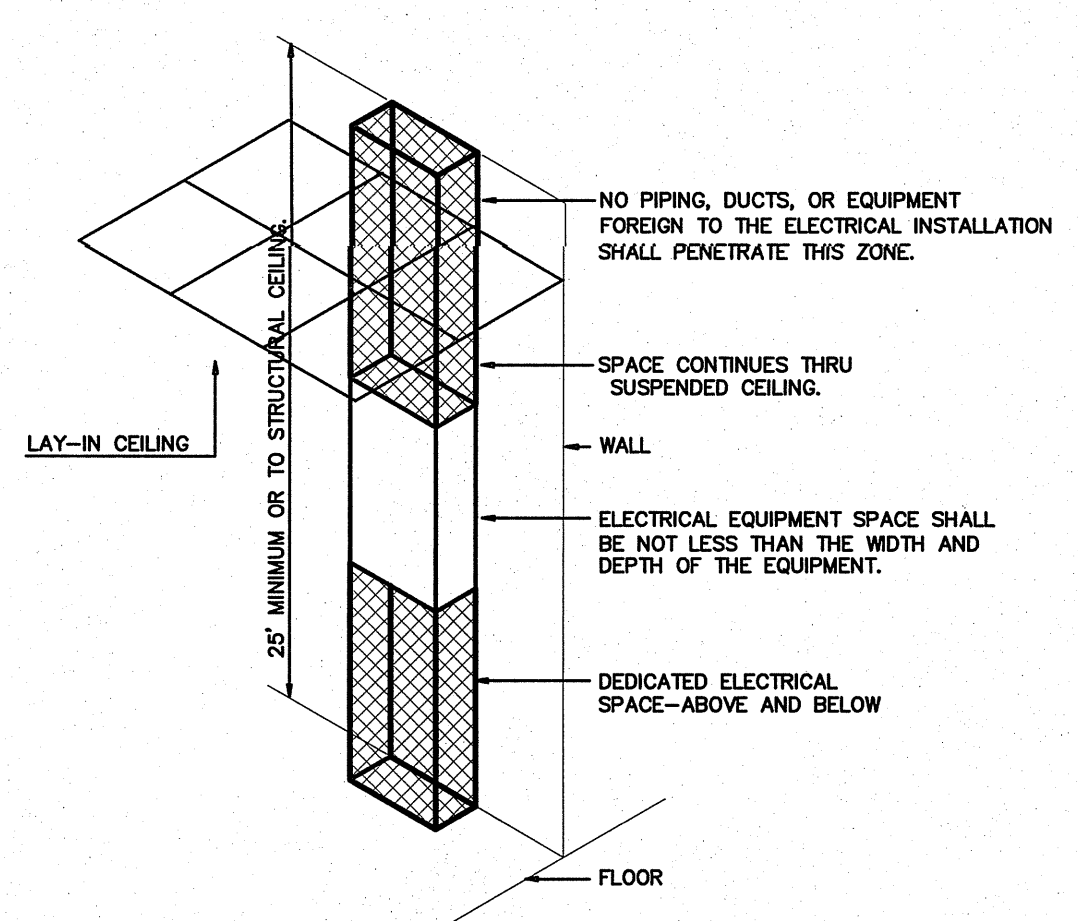
ELECTRICAL LEGEND



ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110-26 OF N.E.C.

VOLTAGE TO GROUND-NOMINAL	WORKING CLEARANCES			
	MIN. CLEAR DISTANCE IN FEET	CONDITION 1	2	3
0-150	3	3	3	3
151-600	3	3-1/2	4	4

WHERE THE CONDITIONS ARE AS FOLLOWS:
1 EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDING PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
2 EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDING PARTS ON THE OTHER SIDE.
3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.



ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.

1 ELECTRICAL CLEARANCES
SCALE: NTS

2 DEDICATED SPACE
SCALE: NTS

NOTE:
PROVIDE LABELING ON EACH SWITCH NOTING CIRCUIT SERVED.

AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE EGRESS PATH LIGHTING AS ALLOWED PER 405.2.1-3 EXCEPTION #3. WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY.

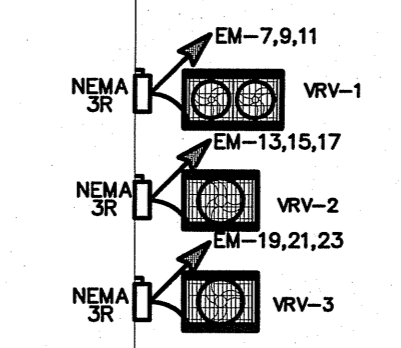
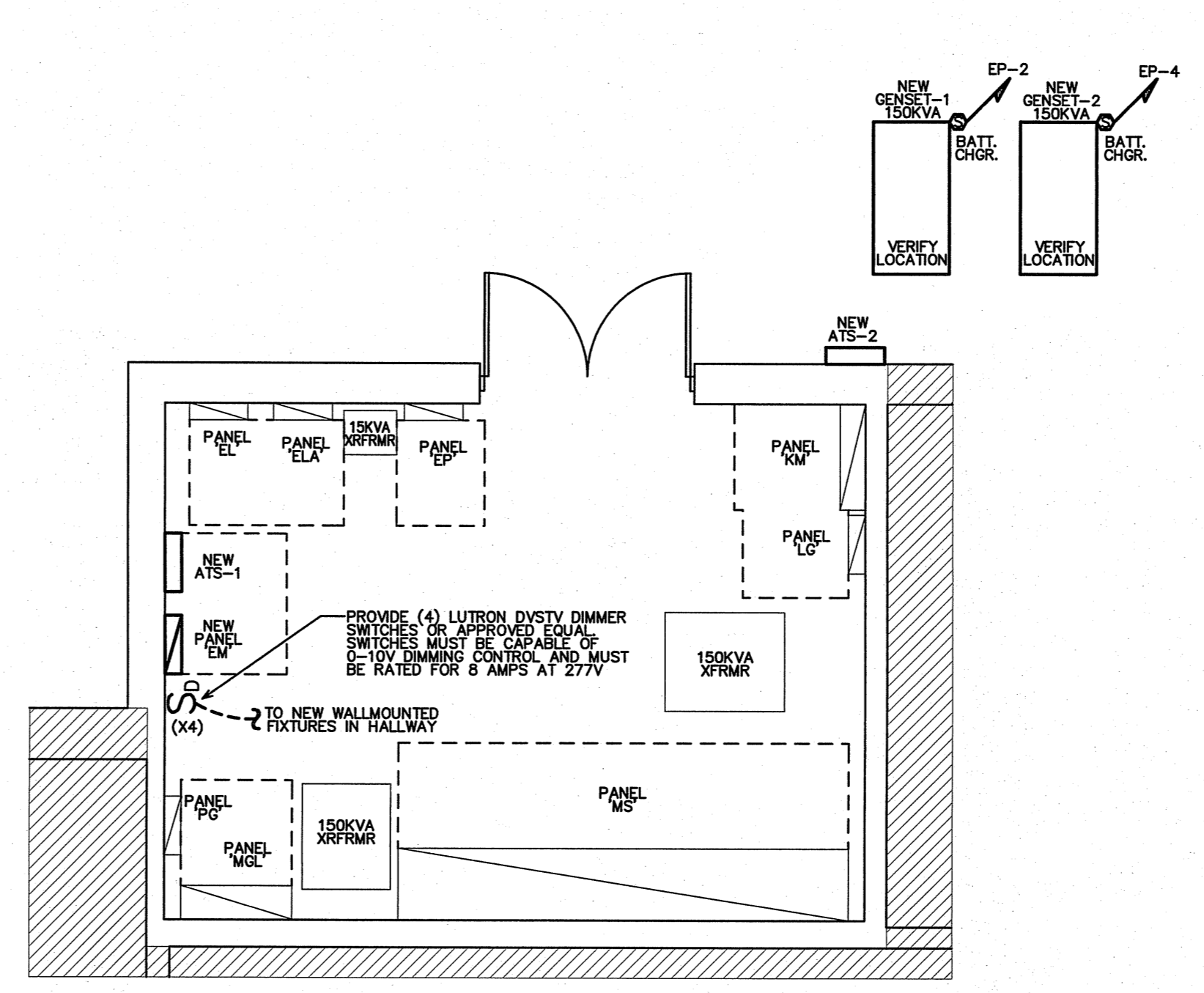
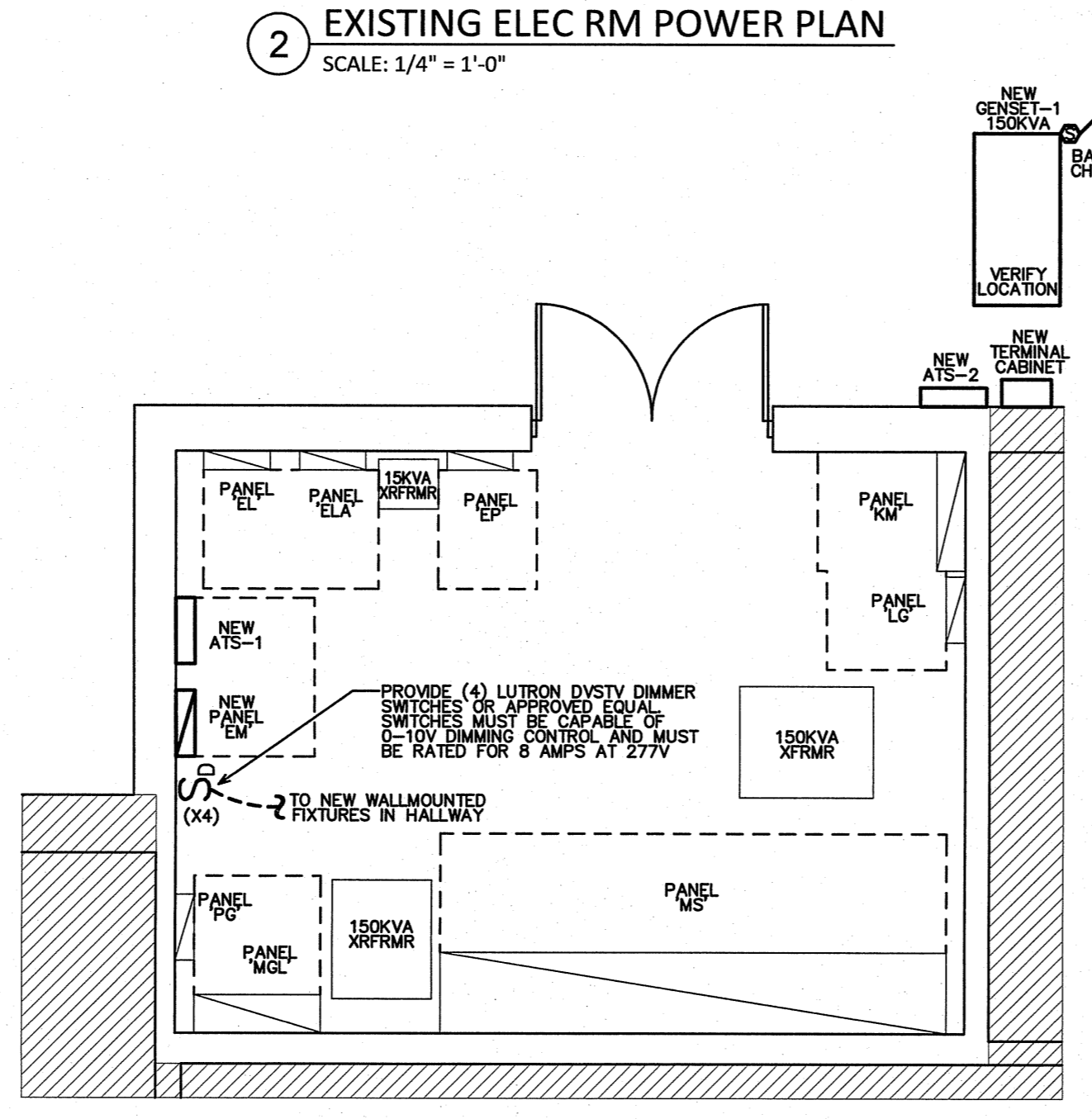
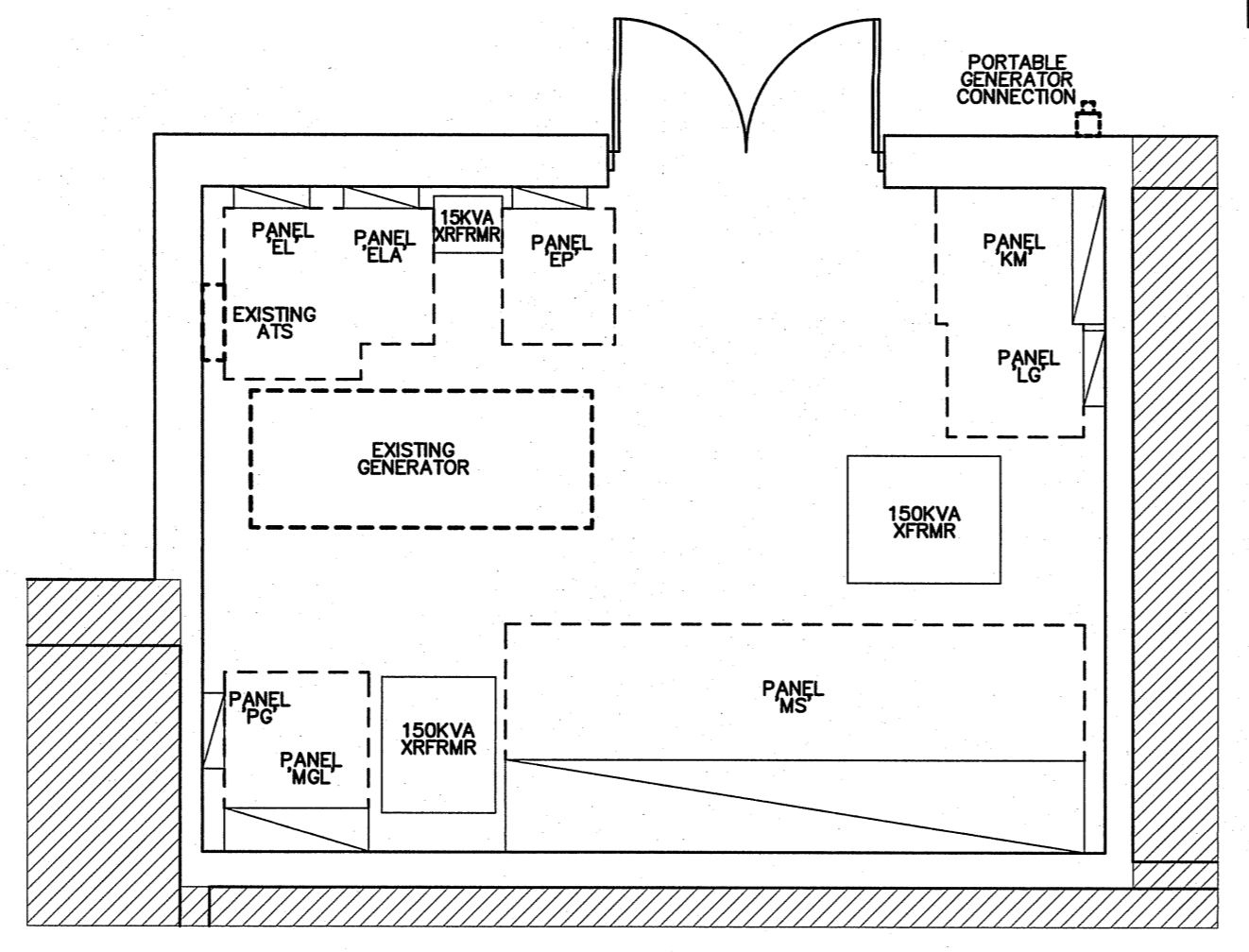
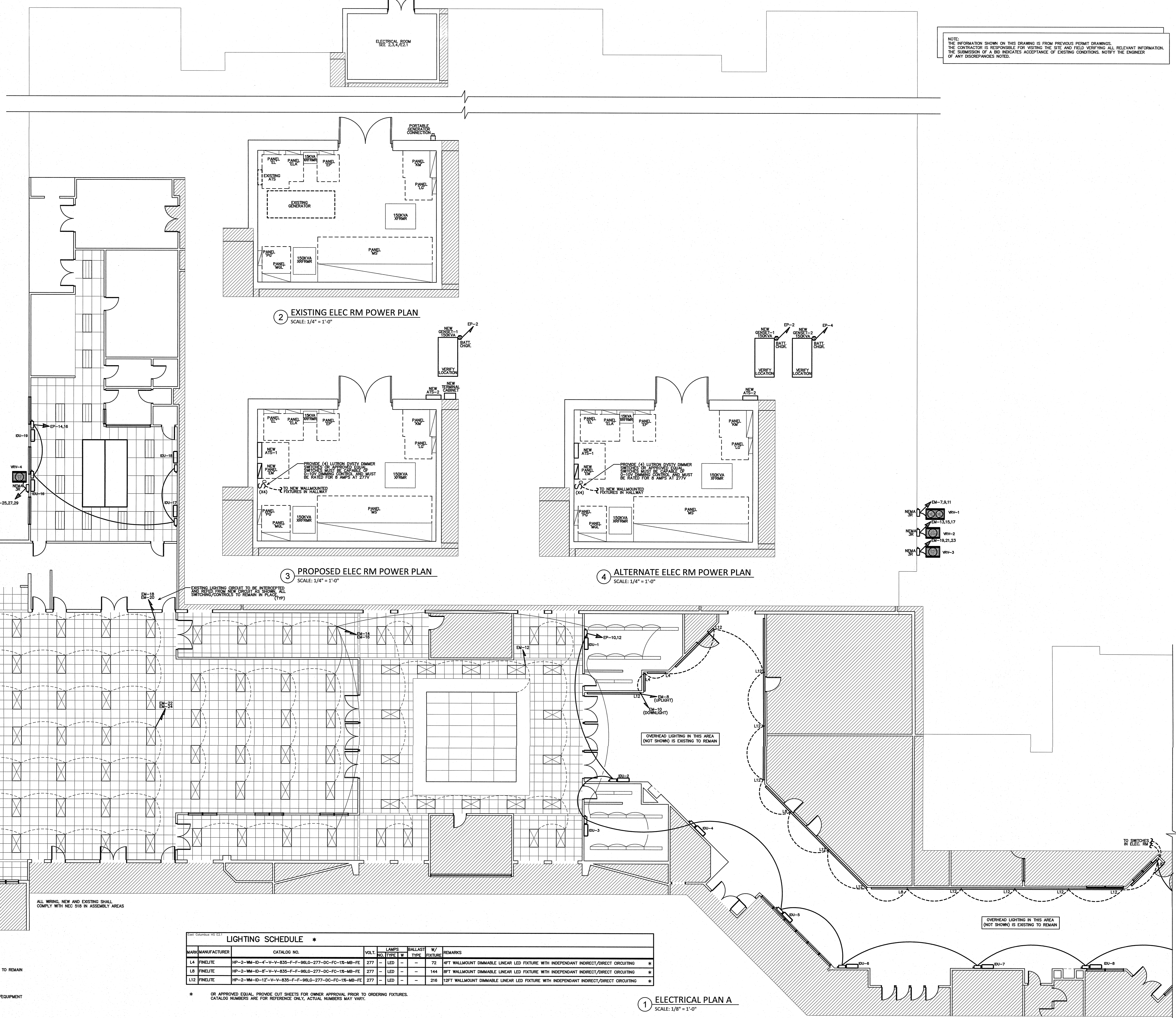
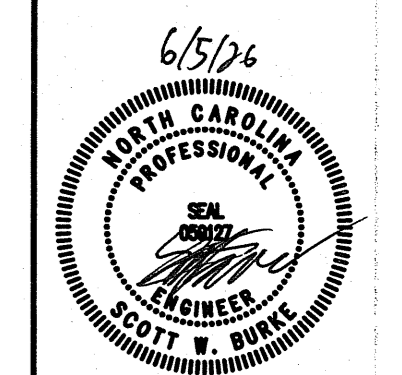
THE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.

NOTE:
PROVIDE LABELING ON EACH RECEPTACLE NOTING CIRCUIT SERVED.

VERIFY HEIGHT/LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.

NOTE:
THE INFORMATION SHOWN ON THIS DRAWING IS FROM PREVIOUS PERMIT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

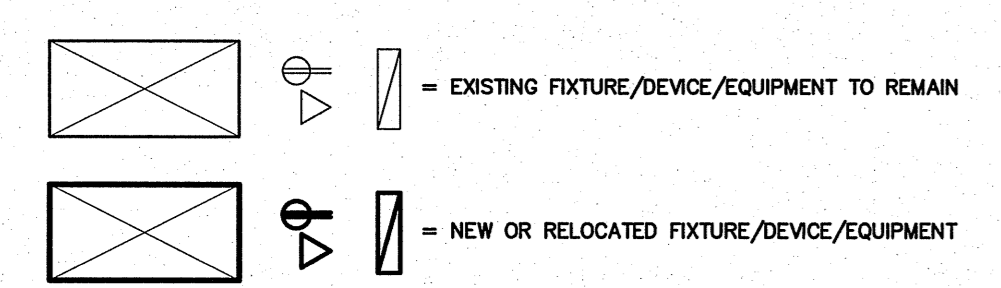


Source: Columbus HS E2.1

MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS	BALLAST	W/	REMARKS	
				NO.	TYPE	TYPE	FIXTURE	
L4	FINELITE	HP-2-WM-ID-4'-Y-V-835-F-F-98LG-277-DC-FC-15-MB-FE	277	-	LED	-	72	4FT WALLMOUNT DIMMABLE LINEAR LED FIXTURE WITH INDEPENDANT INDIRECT/DIRECT CIRCUITING *
L8	FINELITE	HP-2-WM-ID-8'-Y-V-835-F-F-98LG-277-DC-FC-15-MB-FE	277	-	LED	-	144	8FT WALLMOUNT DIMMABLE LINEAR LED FIXTURE WITH INDEPENDANT INDIRECT/DIRECT CIRCUITING *
L12	FINELITE	HP-2-WM-ID-12'-Y-V-835-F-F-98LG-277-DC-FC-15-MB-FE	277	-	LED	-	216	12FT WALLMOUNT DIMMABLE LINEAR LED FIXTURE WITH INDEPENDANT INDIRECT/DIRECT CIRCUITING *

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.

1 ELECTRICAL PLAN A
SCALE: 1/8" = 1'-0"



ALL WIRING, NEW AND EXISTING SHALL COMPLY WITH NEC 910 IN ASSEMBLY AREAS

EXISTING LIGHTING CIRCUIT TO BE INTERRUPTED AND REFERED FROM NEW CIRCUIT AS SHOWN. ALL SWITCHING/CONTROLS TO REMAIN IN PLACE. (TYP)

OVERHEAD LIGHTING IN THIS AREA (NOT SHOWN) IS EXISTING TO REMAIN

OVERHEAD LIGHTING IN THIS AREA (NOT SHOWN) IS EXISTING TO REMAIN

THERE SHALL BE A NF/SP1 RECEPTACLE WITHIN 25'-0" OF ALL EXTERIOR EQUIP. PROVIDE AS REQUIRED.

NEW GENSET-1
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-2
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-3
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-4
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-5
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-6
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-7
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-8
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-9
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-10
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-11
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NEW GENSET-12
150KVA XFRMR
BATT. CHGR.
VERIFY LOCATION

NOTE:
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 THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
 OF ANY DISCREPANCIES NOTED.

Coastal
 Architecture
 PLLC

Architectural
 Design
 Planning
 Interiors

AIA

Member of the American
 Institute of Architects

Lee D. Dixon, Jr., AIA
 2018-2022

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 Suite C
 Morehead City, NC
 28557
 www.CoastalArchitecture.net

ENGINEER

BURKE DESIGN GROUP

1000 W. 10th St.
 Raleigh, NC 27603
 PHONE: (919) 771-9816
 FAX: (919) 771-9817
 email: burkdesign@bdkg.com
 Corp. License # C-2652

BDG

NOTE:
 PROVIDE LABELING ON EACH
 SWITCH NOTING CIRCUIT SERVED.

AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE
 EGRESS PATH LIGHTING AS ALLOWED PER 405.2.1-3
 EXCEPTION #3, WHERE AUTOMATIC SHUTOFF WOULD
 ENDANGER OCCUPANT SAFETY.

TE ALL EXIT AND EMERGENCY LIGHTS
 TO NEAREST AVAILABLE UNSWITCHED
 LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES
 AND DEVICES PRIOR TO INSTALLATION.

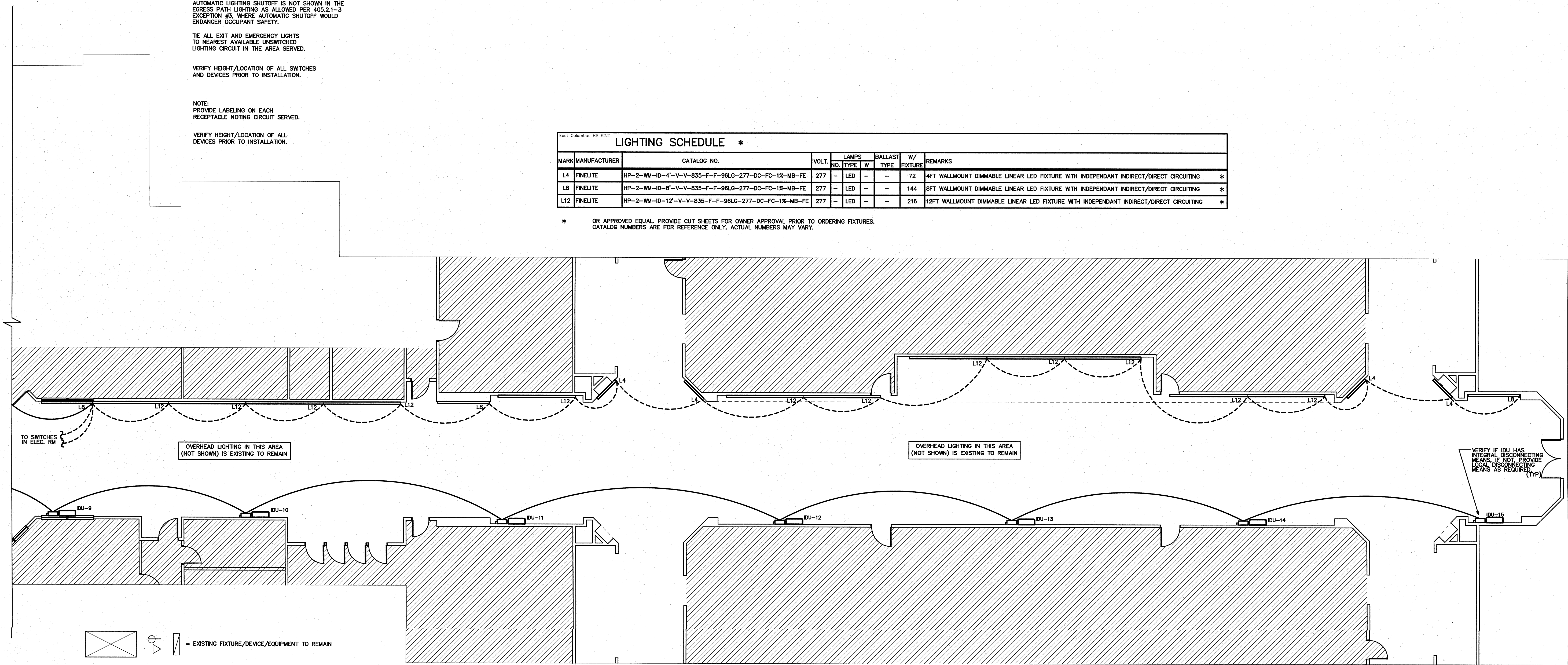
NOTE:
 PROVIDE LABELING ON EACH
 RECEPTACLE NOTING CIRCUIT SERVED.

VERIFY HEIGHT/LOCATION OF ALL
 DEVICES PRIOR TO INSTALLATION.

East Columbus HS E2.2

MARK	MANUFACTURER	CATALOG NO.	VOLT	LAMPS		BALLAST	W/ FIXTURE	REMARKS
				NO	TYPE			
L4	FINELITE	HP-2-MM-ID-4'-V-V-835-F-F-96LG-277-DC-FC-1X-MB-FE	277	-	LED	-	72	4FT WALLMOUNT DIMMABLE LINEAR LED FIXTURE WITH INDEPENDANT INDIRECT/DIRECT CIRCUITING *
L8	FINELITE	HP-2-MM-ID-8'-V-V-835-F-F-96LG-277-DC-FC-1X-MB-FE	277	-	LED	-	144	8FT WALLMOUNT DIMMABLE LINEAR LED FIXTURE WITH INDEPENDANT INDIRECT/DIRECT CIRCUITING *
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* OR APPROVED EQUAL PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES.
 CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.



1 ELECTRICAL PLAN B
 SCALE: 1/8" = 1'-0"

EAST COLUMBUS HIGH SCHOOL
 ATS MODIFICATION
 32 GATOR LANE, LAKE WACCAMAW
 NORTH CAROLINA, 28450

6/5/24

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 RUSTY W. BROWN
 2018-2024

ELECTRICAL PLAN B

ISSUED: 06/05/2026
 DWG BY: SWB
 CKD BY: BEB
 REVISIONS

SHEET NO.
E2.2

