



Addendum #3
Avon-Washington Township Public Library
Addition and Furniture Project

Date: August 6, 2025
Project: Avon-Washington Township Public Library – Addition and Furniture Project
Project #: 24029
Pages: 24
Bid Dates: THURSDAY, August 14, 2025 at 2:00 pm (prevailing local time)

General Note:

The original Specifications and Drawings dated July 11, 2025 for the project referenced above are amended as noted in this Addendum No. 3. Receipt of this Addendum and any subsequent Addenda must be acknowledged on the Bid Form. Items changed or added by this addendum are to take precedence over the items or descriptions of the work in the project manual and the drawings. Items not mentioned in this addendum are to remain as described in the original plans and specifications.

Submit bidder questions no later than end of the day, Friday August 8, 2025.

Contractors are advised that special attention will be given to AIA 201 Article 3.9 - Superintendent. Contractor shall have a full-time superintendent on site during the performance of all work. Any replacement superintendent other than that established at the commencement of the project shall require Owner review and approval.

Specifications Items:

Section 00 72 26 Supplementary General Conditions

1. ADD item 1.03-K as follows:
 - K. Add Article 7.3.1.1: The Owner/Owner Rep has the authority to execute Change Directives.

Section 07 21 00 Thermal Insulation

1. REPLACE section in its entirety. Revisions include:
 - a. Paragraph 2.01-A – clarify that XPS may only be used below grade.
 - b. Renumber Paragraph 2.01-B as 2.01-C.
 - c. Add Paragraph 2.01-B for Polyisocyanurate above-grade insulation.
 - i. Note that insulation products must comply with the requirements needed for the UL-rated wall assembly.

Section 07 54 00 Thermoplastic Membrane Roofing

2. DELETE item 3.03-A.2.



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3. REVISE item 3.03-A.1 as follows:
 1. Mechanically fasten all layers of insulation to deck in accordance with roofing manufacturer's instructions and FM DS 1-28 Factory Mutual requirements.

Section 10 14 00 Signage

1. ADD paragraph 2.04-A as follows:
 - A. Plastic Letters:
 1. Material: Cut acrylic, gloss finish
 2. Material Thickness: 3/4"
 3. Letter Height: As Indicated on drawings.
 4. Text and Typeface:
 - a. Character Font: Match Existing
 - b. Character Case: As indicated on drawings.
 5. Finish: To match existing.
 6. Mounting: Standoffs, offset to match existing.

Section 230957 HVAC Instrumentation and Controls Installation

1. Delete and replace the entire section 230957 HVAC Instrumentation and Controls Installation with attached. Revised section includes TCC system drawings for use by CIC to bid installation of controls.

Section 232113.33 Ground-Loop Heat-Pump Piping

1. ADD sub-paragraph 3.3.E.3. as follows:
 - a. "3. After bedding of the pipe, the trench shall be backfilled with suitable material free from stones larger than three inches in diameter, asphalt or concrete rubble, organic material or other debris to the original ground line. Trenches shall be backfilled in eight-inch lifts maximum and compacted in any approved manner. Trenches improperly backfilled shall be reopened to the depth required for proper compaction then refilled and compacted at no additional cost to the Owner."

Section 232513 Water Treatment for Closed-Loop Hydronic Systems

1. Revise paragraph 2.2.A. to read as follows:
 - a. "A. 15% Propylene Glycol Solution tank and fill system."
2. Revise sub-paragraph 2.2.A.4. to read as follows:
 - a. "4. Capacity: 18 gallons."
3. Delete sub-paragraph 2.2.A.8. in its entirety.



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Section 237223.19 Packaged Indoor Fixed Plate Energy Recovery Units

1. ADD sub-paragraph 2.3.A.5. to read as follows:
 - a. "5. Valent."

Section 31 20 10 Earthwork - Building

1. ADD item 3.2-A.1 as follows:
 1. Contractor shall utilize a sump pump in excavated areas at all times for dewatering efforts.
2. ADD item 3.6-E as follows:
 - E. Retests due to failed testing shall be paid for at the Contractor's expense.

Drawing Set Items:

Sheet C110 – Grading and Drainage Plan

1. REISSUE sheet in its entirety to clarify the asphalt patching requirements.

Sheet A8-1 – Door/Frame Schedules

1. REVISE Door & Window Abbreviations Schedule:
 - a. PFN-1 shall read "Dark Bronze Anodize."
 - b. Delete reference to PFN-2.

Sheet A10-2 – Interior Elevations

1. REVISE the following key notes in their entirety:
 - a. Note #3: REMOVE EXISTING "TEEN" SIGNAGE AND BACKLIGHTING IN ITS ENTIRITY. PATCH AS NEEDED TO PREPARE FOR NEW SIGNAGE. PROVIDE NEW DIMENSIONAL PLASTIC "TEEN ZONE" SIGNAGE, 10"H IN ARIAL, FINAL FONT TO BE APPROVED BY OWNER. COLOR TO BE BLACK.
 - b. Note #4: REMOVE EXISTING ARROW SIGNAGE IN ITS ENTIRITY. PATCH AS NEEDED TO PREPARE FOR NEW PLASTIC SIGNAGE. PROVIDE NEW DIMENSIONAL PLASTIC ARROW SIGNAGE TO MATCH EXISTING. COLOR TO BE YELLOW.
 - c. Note #5: PROVIDE NEW DIMENSIONAL PLASTIC SIGNAGE MOUNTED ON STANDOFFS. 10"H IN ARIAL, FINAL FONT TO BE APPROVED BY OWNER. COLOR TO BE BLACK.
 - d. Note #6: PROVIDE NEW DIMENSIONAL PLASTIC ARROW SIGNAGE SIGNAGE. COLOR TO BE YELLOW.

Sheet M-601

1. REVISE Pumps Schedule: Change pumps voltage and phase as follows:



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Electrical data: Voltage and phase shall be 208/3ph.

Sheet E0-1 Electrical Details & Schedule.

1. The new data cabling to be Cat 6, not Cat 6A.
2. Detail 3, EXISTING MDP EDP GEAR. Disregard note #1, 2. That is showing the existing electrical gear. Use ELECTRICAL RISER DIAGRAM Dtl. 9 on sheet E0-1.
3. The new feeders from the existing 800 amp EDP1 panel in the extg. basement to the new 400 amp panel in the new addition is shown detail 9. Feeder set A, (1) SETS, 4 ,600 MCM THWN CU. W/ GRD #1 4"C 400A.
4. Motorized Blind AC motors use line voltage, and shades can be coupled together to minimize the number of motors needed.

Sheet E1-1 Main Level Electrical Plan

1. REVISE note 14 to read, "VFD FOR THE 3 HP PUMPS. SUPPLIED BY THE TEMPERATURE CONTROLS CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR."

Sheet E1-2 Electrical Details & Schedule.

1. Change pump P1 to 3 phase 15amp 208v power, circuit breaker P1-17,19,21.
2. Change pump P2 to 3 phase 15 amp 208v power, circuit breaker P1-36,38,40.

Sheet E2-1 Main Level Lighting Plan

1. REISSUE sheet in its entirety.
2. Added a new fixture to Children's play area. See sheet E2-1.
3. There is one type R4 light fixture not labeled next to RR 273. ADD R4 fixture. See sheet E2-1 for revision.
4. Delete unused fixture W6 from the light fixture schedule.
5. Add to plan note 9, "Keep conduit at the bottom of the metal deck. Install hanging accessible junction boxes at the pendant & hanging location of the lights that are hung from the bottom of exposed ceiling. Electrical connection to lights and other electrical items are to be thru accessible junction boxes."

Bidder Questions:

1. Who is providing the excavation, backfill stone, and asphalt for work done for the ground loop?
 - a. While it is anticipated that the geothermal contractor will complete this work, the General Contractor is responsible for assigning scope responsibilities for the project. See clarifications above regarding the backfilling work required.
2. How is the sheathing attached? I see the TPO calls for mechanically attached first layer and embedded low rise foam for second - but curious on the standing seam - can you

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- specify if the second layer of ISO and plywood nail base are both to be low rise foamed and metal just attached to the nail base?
- a. See details for RF-1 and RF-2 on sheet A3-1. On RF-1, mechanically attach all insulation layers. On RF-2, mechanically attach all insulation layers and wood sheathing.
 3. I do believe the (8) "scissor trusses" shown on drawing S302 are the structural steel that will be architecturally exposed. Looking at the finish: I'm seeing these require a Category 3, which includes SSPC-SP-6 surface prep. What I'm not seeing is a finish. I cannot find anything anywhere about a possible "high-performance coating" for the AESS required for this project. How are these to be finished, painted or with high performance coating?
 - a. High-performance coating is not required. Paint per specification 09 91 23.
 4. This project requires the structural steel fabricator to be AISC certified (051200, 1.5 Quality Assurance, A.) Stephens Machine is NOT an AISC certified shop, although we abide by all of standards set forth in the AISC certification process. Do you know if this requirement can be waived so we may bid?
 - a. The requirement will NOT be waived.
 5. Can you clarify the intent of note #9 on E2-1 and #14 on A2-1 "Exposed ceiling area, all conduit to be run above the roof deck no visible conduit, wiring etc."? Is there a separate metal ceiling deck from the actual roof deck and we are to put all electrical in between this space? I am not seeing a cavity between the metal ceiling and roof insulation and roofing.
 - a. See detail for RF-2 on sheet A3-1, as revised by Addendum 2. The conduit is intended to run in the flutes of the roof deck.
 6. Can Xcelus be considered as a manufacturer for the spray foam?
 - a. This is acceptable, subject to compliance with all specification requirements.
 7. Please clarify if low voltage cabling for this project is CAT6 or CAT6A? Spec Section 27 15 13 calls for CAT6. General Electrical Notes # 28 on Drawing E-01, calls for all cabling to be CAT6A.
 - a. See clarification above.
 8. Confirm NOT tax exempt.
 - a. Incorrect, this project is sales tax exempt.
 9. Allowance of 100,000.00 to all scopes or blanket for CM?
 - a. The GC shall include a \$100,000 general allowance, to be used for the owner's purposes. Note that this is not a CM project.
 10. Tentative start date.
 - a. Early September, 2025.
 11. Are bids broken to categories, bid pac # masonry?
 - a. This is a GC bid, not a CM.
 12. The door schedule shows doors to be white PDVF, and the elevations show to be dark bronze anodized. I'm assuming it should be dark bronze to match the existing building.
 - a. Confirmed, all storefront doors should be PFN-2 (dark bronze anodized).
 13. There are notes on the interior elevation drawings that mention new signage, but they are not called out in the drawings. Is there any new signage for this project other than the dedication plaque? Thanks.
 - a. Yes, provide signage as noted on the interior elevations; room signage as noted in the specifications; and exterior signage as noted in the exterior elevations.
 14. Plans M-601 for the Trane Heat pumps, pumps and Air separator all call for 15% Propylene Glycol. Is this what the equipment manufacturer is recommending, because

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- the glycol manufacturers do not guarantee corrosion control or biological protection below 25%. I am just confirming you do only want 15% PG. Spec Section 232513-2 Paragraph 2.1.C calls for 30% Propylene Glycol.
- a. See change in Addendum 1 regarding percentage of Glycol. If the water treatment contractor cannot warrant the system with 15% glycol, then they should account for adding additional corrosion control and biological protection chemicals as needed. We do not want a higher percentage of glycol.
 15. M-501 says Wessels G18 or like. Do I need to get a Calefactio approved before quoting it?
 - a. We will allow the Calefactio system subject to conformance with the specifications.
 16. Section 232513 Paragraph 2.2.A. Is calling for a 50-gallon Pulsafeeder glycol feed system. Do they want an 18-gallon feeder or a 50-gallon feeder?
 - a. 18-gallon is correct, see revision to specification above.
 17. Sheet E0-1 detail 9 shows photo of MDP and note to add a 400 AMP Disconnect to existing panel in MDP. Sheet E1-2 shows MDP panel schedule with note 1 at bottom to add a 300A Fuse in existing fused switch. Is the disconnect already installed? Please advise.
 - a. See clarification above.
 18. One line diagram does not show any feeders coming from this 400 AMP disconnect in MDP, Is there a feeder needed to be installed?
 - a. See clarification above.
 19. Sheet E0-1 detail 9 riser diagram shows note to add a 400 AMP Disconnect to existing panel in EDP1. Sheet E1-2 shows EDP1 panel schedule with notes 1. to provide 225A fuse in existing 400A fused switch. Is the disconnect already installed. Please advise.
 - a. See clarification above.
 20. Sheet E2-1 appears to show one recessed can light without fixture type below RR 273. Please advise.
 - a. See clarification above.
 21. Sheet E2-1 note 9 and Sheet A2-1 note 14 are noted to run conduits above the roof deck due to the exposed ceiling area. Is the EC to figure on running all conduits (Power, Lighting, Fire alarm, Cameras, Telecom) for this space above roof membrane in GRC conduit and on roof blocks? Per NEC section 300.4 (E) conduits, boxes can not be installed in concealed locations of decking due to roofing screws and maintenance. Please advise.
 - a. See clarification above. The new roof construction is approximately 8" deep / thick, from the metal roof to the bottom of the 3.5" deep metal roof deck. There is room to run conduit in the flutes of the 3.5" metal deck. NEC 300.4 (E) excludes rigid metal and intermediate metal conduit. Only conduit for power and data for ceiling-mounted devices in the program room area need to run in the roof deck.
 22. Sheet E1-1 note 18 shows control device for window shades. Are these low voltage requiring conduits and cabling to each window shade or are these wireless control devices?
 - a. See clarification above.
 23. Please clarify extent of T-2 tile in the kitchenette area in Program Room South. Does it wrap around the side wall? A lined detail showing Accent Finish on A11-1 looks like it might wrap on that side wall but no mention on elevation.
 - a. Correction, T-2 tile to only be located on the south wall.

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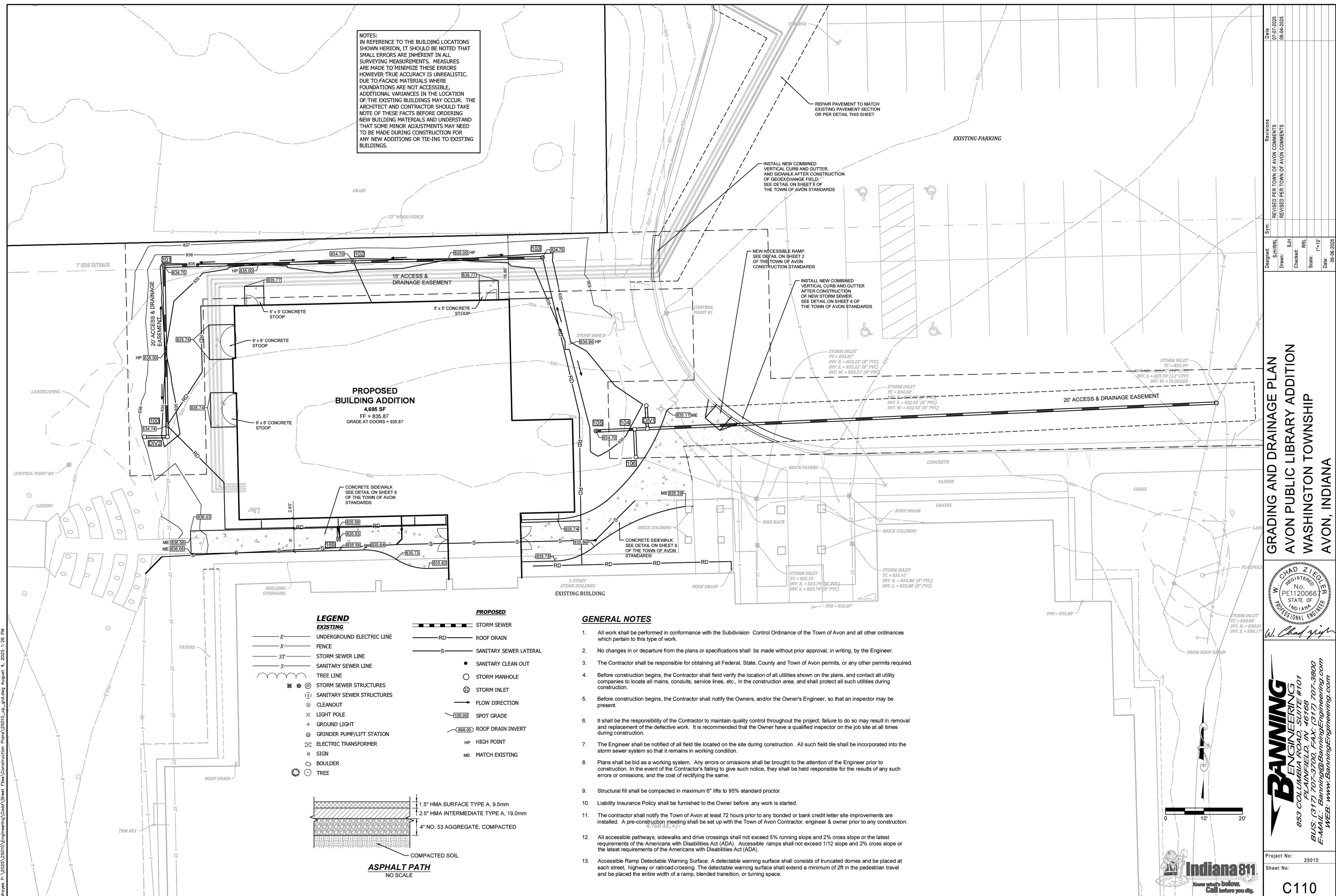
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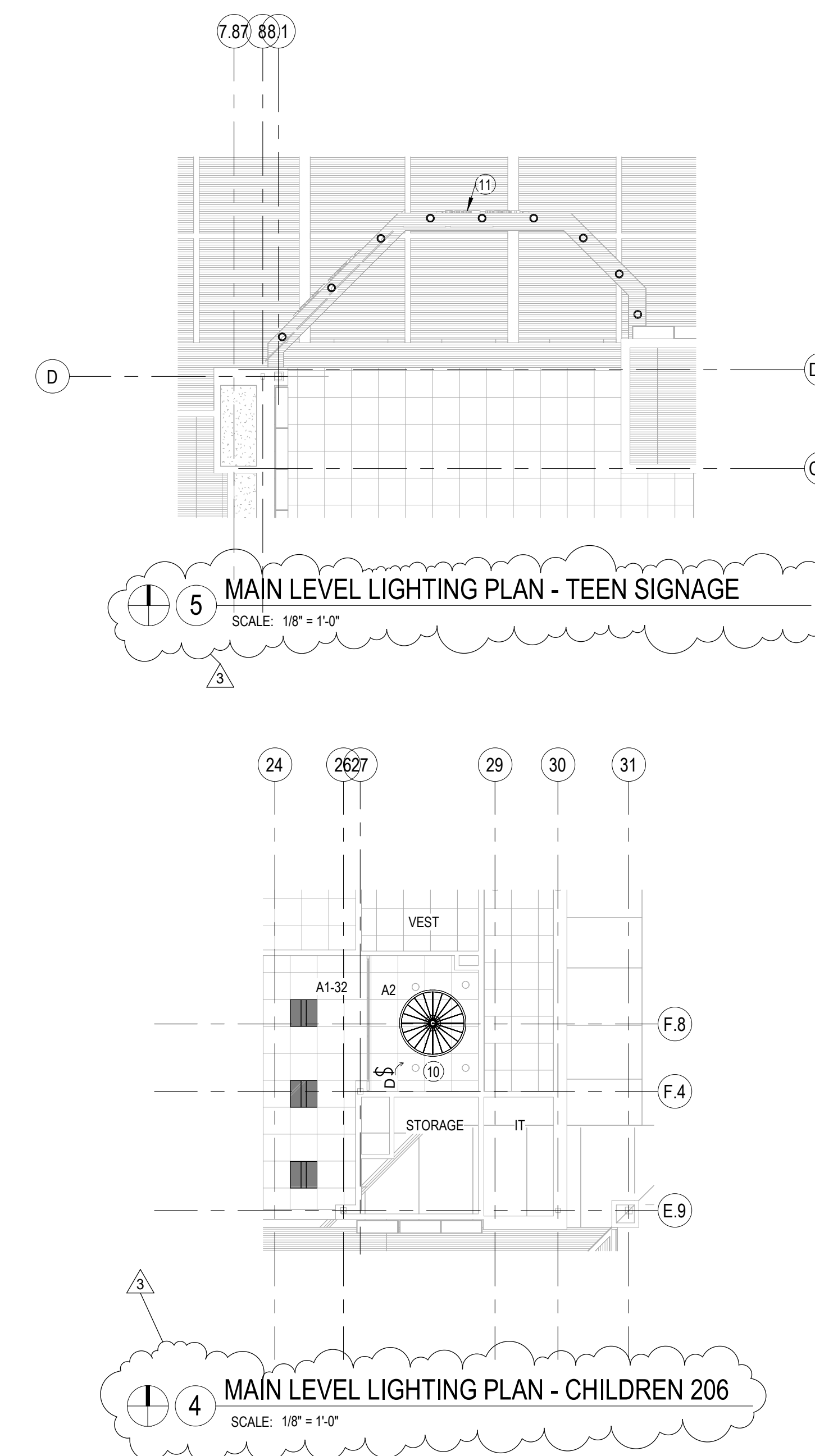
24. Please confirm that RF-1 and RB-1 are the same product.
 - a. See addendum 2.
25. Please consider allowing Xci insulation.
 - a. See clarification above.
26. Please consider allowing TruFast MVA brick ties.
 - a. This is acceptable.
27. Can ACME be considered as a manufacturer for the mechanical vents?
 - a. This is acceptable, subject to conformance with the specifications.
28. Please clarify extent of wall tile in RR 272 and RR 273. It's understood that walls behind toilets would receive full height wall tile but some side walls are showing full height while others are showing half height. Same with on the door wall. A marked up floor plan pointing to which walls receive what height would answer this.
 - a. RR 272 to receive half tile/half wallcovering on north wall (6/A9-1), west wall (7/A9-1), and south wall (8/A9-1) as show on elevations, all other walls to receive full tile.
 - b. RR 273 to receive half tile/half wallcovering on east wall (1/A9-1), north wall (2/A9-1), and door side of south wall (4/A9-1) as show on elevations, all other walls to receive full tile.
29. Please confirm if all walls are the receive TB-1 in the bathrooms. It is not shown in the elevations. TB-1 is a bullnose base and we'd need a metal trim piece between it and the wall tile if we are to have base. The base is not cove so it really doesn't serve a purpose.
 - a. T-1 wall tile to run all the way to the floor as indicated in the elevations. TB-1 not used, remove from the finish schedule.
30. The finish legend on A11-1 calls out for a tile base TB-1 which is a 3x24 bullnose. It looks like the elevation drawings on A9-1 show the wall tile running to the floor tile and all RR walls to receive wall tile. Where is TB-1 being used?
 - a. T-1 wall tile to run all the way to the floor as indicated in the elevations. TB-1 not used, remove from the finish schedule.

Attachments:

1. Sheet C110 – Grading and Drainage Plan
2. Sheet E2-1 – Main Level Lighting Plan
3. Specification Section 07 21 00 Thermal Insulation
4. Specification Section 230957 HVAC Instrumentation and Controls Installation

END





LIGHT FIXTURE SCHEDULE						
Exterior Luminaires						
Label	Arrangement	Lum. Watts	Lum. Lumens*	ILF	Manufacturer	Description
W1	Single	15	1408	0.85	PIL	71612
W1	Single	15	1408	0.85	PIL	71612-90 MIN BACKUP
W2	Single	15	1340	0.85	PIL	71634
W2E	Single	15	1340	0.85	PIL	71634-90 MIN BACKUP
W3	Single	13.68	1343	0.85	LUMENPULSE	LPF-SA-X-X-48-3_75W-40K-80-WW-FR-X-X-X-WMCI
Interior Luminaires						
Label	Arrangement	Lum. Watts	Lum. Lumens*	ILF	Manufacturer	Description
A1	Single	20	1834	0.88	ALPH	NUG-RA-SW-25LM-35K-80-HEGO
F1	Single	49.5	5758	0.85	COLM	MPF-18-18-CW
LP11_47'	GROUP	N.A.	N.A.	0.85	INTR	Camay-SDI-DPR-935-1000+1450LM"11_47"
P1	Single	68	4078	0.85	OCL	AQ2-X-72-MW-X-LED1-35K
P2	Single	42	3522	0.523	SONN	200KL04C
R1	Single	8.53	814	0.88	ALPH	NUG-RD-SW-10LM-35K-80-HE70
R2	Single	14.53	1418	0.88	ALPH	NUG-RD-SW-15LM-35K-80-HE70
R3	Single	14.55	1158	0.88	ALPH	NUG-RD-SW-15LM-35K-80-HEGO
R4	Single	14.3	1158	0.85	DMF	MD-15-9-35-GA-X-M4TR5XWHOFD
S1	Single	12			NAL	Trojan-P-S-USV / 2
T2	Single	25.6	2459	0.85	BRCC	OK-35-25LM-35K-80-ASTO
W4	Single	200	21032	0.85	METEOR	RI-2101-358-UNV-X-120
W5	Single	26.8477	217	0.85	SONN	2711_XX-WL
W6	Single	8.1	443	0.89	RBW	TBD(CU-WS-X-35-X)
X1	Single				Dualite	W-4-S-R-XX-W-E-I-M
A2	SINGLE				OCL	OCL PIED 45 MW SPF LED2 TWHY UNO 60 DM1 OFB

- # LIGHTING NOTES
1. NL TO HAVE BATTERY BACK-UP. NIGHT LIGHTS TO BE ON NON SWITCHING OPERATION.
 2. UL 924 DISC REQUIRED AT LED FIXTURES WHEN USED AS EM & ALSO USED AS DIMMABLE FIXTURES.
 3. ALL NEW EXIST LIGHTS TO HAVE 90 MIN. BATTERY BACK-UP.
 4. ALL OCCUPANCY SENSOR TO BE SET TO TURN OFF LIGHTS LESS THAN 30 MINUTES AFTER ANYBODY LEAVES THE ROOM.
 5. NEW SWITCH FOR UNDER COUNTER LIGHTS.
 6. OCC SENSOR; SUBMIT SHOP DRAWINGS INDICATING MOUNTING AND OPERATION FOR APPROVAL PRIOR TO THIS WORK. SENSOR SHALL CONTROL ARRANGEMENTS OF DIMMABLE LIGHTING FIXTURES INDICATED ALL LIGHT FIXTURES CONTROLLED WITH PHOTO SENSOR SHALL BE PROVIDED WITH DIMMABLE DRIVER; REFER TO DETAIL, SHEET E3-2
 7. EXTERIOR WALL MOUNTED LIGHT FIXTURE COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. THESE FIXTURES ARE TO BE CONTROLLED THROUGH AUTOMATIC LIGHTING CONTROLS; REFER TO LIGHTING CONTROL SEQUENCE SCHEDULE, SHEET E3-2. TYPICAL EXTERIOR FIXTURES.
 8. FIELD VERIFY LIGHT LOCATIONS THIS ROOM.
 9. RUN CONDUIT FOR CEILING-MOUNTED ELECTRICAL DEVICES ABOVE ROOF DECK STRUCTURE. NO CONDUIT SHALL BE SURFACE-MOUNTED OR VISIBLE FROM WITHIN THE FINISHED SPACE.
 10. TIE INTO EXISTING LIGHTING CIRCUIT THIS AREA. HANG NEW LIGHT FROM STRUCTURE.
 11. REMOVE POWER FOR EXISTING BACK-LIT SIGN LIGHT.

SECTION 07 21 00
THERMAL INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Board insulation at cavity wall construction and perimeter foundation wall.
- B. Batt insulation in exterior wall and ceiling construction.
- C. Batt insulation for filling perimeter window and door shim spaces and crevices in exterior wall and roof.

1.02 RELATED REQUIREMENTS

- A. Section 07 27 00 - Air Barriers: Separate air barrier materials.

1.03 REFERENCE STANDARDS

- A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2017a.
- B. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2017.
- C. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2017.
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2018.
- E. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components; 2012.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

1.05 FIELD CONDITIONS

- A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

PART 2 PRODUCTS

2.01 FOAM BOARD INSULATION MATERIALS

- A. Extruded Polystyrene (XPS) Board Insulation: Comply with ASTM C578 with either natural skin or cut cell surfaces.
 - 1. For use on perimeter foundation walls below grade.
 - 2. Type and Compressive Resistance: Type IV, 25 psi (173 kPa), minimum.
 - 3. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
 - 4. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
 - 5. Type and Thermal Resistance, R-value (RSI-value): Type IV, 5.0 (0.88), minimum, per 1 inch (25.4 mm) thickness at 75 degrees F (24 degrees C) mean temperature.
 - 6. Complies with fire resistance requirements indicated on drawings as part of an exterior non-load-bearing exterior wall assembly when tested in accordance with NFPA 285.
 - 7. Board Edges: Square.
 - 8. Products:
 - a. DuPont de Nemours, Inc; Styrofoam Brand Cavtymate Plus:
building.dupont.com/#sle.
 - b. Kingspan Insulation LLC; GreenGuard GG25-LG XPS Insulation Board:
www.kingspan.com/#sle.
 - c. Owens Corning Corporation; FOAMULAR Type 250 Extruded Polystyrene (XPS) Insulation: www.ocbuildingspec.com/#sle.

- B. Rigid Cellular Polyisocyanurate (ISO) Thermal Insulation Board with Facers Both Sides:
Complying with ASTM C1289.
1. For use at cavity wall construction above grade.
 2. Classifications:
 - a. Type II: Faced with either cellulosic facers or glass fiber mat facers on both major surfaces of the core foam.
 - 1) Class 2 - Faced with coated glass fiber mat facers on both major surfaces of the core foam.
 - 2) Compressive Strength: Classes 1-2-3, Grade 2 - 20 psi (138 kPa), minimum.
 - 3) Thermal Resistance, R-value (RSI-value): At 1-1/2 inch (38.1 mm) thick; Class 1, Grades 1-2-3 - 8.4 (1.48), minimum, at 75 degrees F (24 degrees C).
 3. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
 4. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
 5. Comply with fire resistance requirements indicated on drawings as part of an exterior non-load-bearing exterior wall assembly.
 6. Board Size: 48 inch by 96 inch (1220 mm by 2440 mm).
 7. Board Edges: Square.
 8. Products:
 - a. DuPont de Nemours, Inc; Thermax XARMOR (ci): building.dupont.com/#sle.
 - b. Basis of Design: Hunter Panels; Xci CG (Class A): www.hunterpanels.com/#sle.
 - c. Rmax Inc; Durasheath: www.rmax.com/#sle.
 - d. Holcim; Enverge CI Glass Exterior Wall Insulation.
- C. Rigid Cellular Polyisocyanurate (ISO) Thermal Insulation Board Faced with Plywood:
Complying with ASTM C1289.
1. Classifications:
 - a. Type V: Faced with oriented strand board (OSB) or plywood on one major surface of the core foam and faced on the other major surface with any facer described in this specification.
 - 1) Compressive Strength: 16 psi (110 kPa), minimum.
 - 2) Thermal Resistance, R-value (RSI-value): At 1-1/2 inch (38.1 mm) thick; 6.2 (1.09), minimum, at 75 degrees F (24 degrees C).
 2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
 3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
 4. Comply with fire resistance requirements indicated on drawings as part of an exterior non-load-bearing exterior wall assembly when tested in accordance with NFPA 285.
 5. Board Size: 48 inch by 96 inch (1220 mm by 2440 mm).
 6. Plywood Thickness: 3/4 inch (19 mm).
 7. Insulation Board Thickness: 1-1/2 inch (38 mm).
 8. Board Edges: Square.
 9. Products:
 - a. Atlas Roofing Corporation; AC Foam Nail Base Nailable Roof Insulation: www.atlasroofing.com/#sle.
 - b. Hunter Panels; Xci Ply: www.hunterpanels.com/#sle.
 - c. Rmax Inc; ECOMAXci Ply: www.rmax.com/#sle.
 - d. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 MINERAL FIBER BLANKET INSULATION MATERIALS

- A. Mineral Wool Blanket Thermal Insulation: Flexible or semi-rigid preformed insulation, complying with ASTM C665.
1. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
 2. Products:
 - a. Johns Manville; MinWool Sound Attenuation Fire Batts: www.jm.com/#sle.
 - b. ROCKWOOL; AFB: www.rockwool.com/#sle.
 - c. Thermafiber, Inc; SAFB: www.thermafiber.com/#sle.

2.03 ACCESSORIES

- A. Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive.
 - 1. Application: Sealing of interior circular penetrations, such as pipes or cables.
 - 2. Width: As required for application.
- B. Self-Adhered Transition Flashing: Multipurpose, self-adhered flashing with modified butyl adhesive, polyester fiber top sheet, and polypropylene interlayer.
 - 1. Application: Primerless adhesion for use as through-wall flashings and wall transitions to roof and below-grade systems.
 - 2. Thickness: 45 mil, 0.045 inch (1.14 mm), nominal.
 - 3. Size: 6 inches (152 mm) wide, in rolls 75 feet (23 m) long.
- C. Flashing Tape: Special reinforced film with high performance adhesive.
 - 1. Application: Window and door opening flashing tape.
 - 2. Width: As required for application.
- D. Sill Plate Sealer: Closed-cell foam tape with rubberized adhesive membrane; bridges gap between foundation structure and sill plate or skirt board.
 - 1. Width: 3-1/2 inches (89 mm).
 - 2. Ultraviolet (UV) and Weathering Resistance: Approved in writing by manufacturer for up to 30 days of weather exposure.
- E. Tape joints of rigid insulation in accordance with roofing and insulation manufacturers' instructions.
- F. Adhesive: Type recommended by insulation manufacturer for application.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation.
- B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.

3.02 BOARD INSTALLATION AT FOUNDATION PERIMETER

- A. Adhere a 6 inches (152 mm) wide strip of polyethylene sheet over construction, control, and expansion joints with double beads of adhesive each side of joint.
- B. Apply adhesive to back of boards:
 - 1. Three continuous beads per board length.
- C. Install boards horizontally on foundation perimeter.
- D. Extend boards over expansion joints, unbonded to foundation on one side of joint.
- E. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

3.03 BOARD INSTALLATION AT CAVITY WALLS

- A. Install boards to fit snugly between wall ties.
- B. Install boards horizontally on walls.
- C. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

3.04 BATT INSTALLATION

- A. Install insulation in accordance with manufacturer's instructions.
- B. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation.
- C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
- D. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.
- E. Coordinate work of this section with construction of air barrier seal, see Section 07 27 00.

3.05 PROTECTION

- A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION

SECTION 23 09 57

HVAC INSTRUMENTATION AND CONTROLS INSTALLATION

PART 1 – GENERAL

1.1 SCOPE OF WORK:

A. Temperature Controls Contractor:

1. The Temperature Controls Contractor shall carefully examine the construction documents prior to bidding and shall provide all required system architecture and wiring diagrams for inclusion in addendum, to allow time for the CIC bidders to provide responsible bids. The TCC scope of work shall be included in the Mechanical Contractor's (MC) bid. The MC shall oversee and schedule the TCC scope of supply and work. The MC shall coordinate the TCC work and the CIC work for a complete control system at project completion.

B. Controls Installation Contractor:

1. Installation of controls shall be performed by the Controls Installation Contractor (CIC) as part of this section, and not by the TCC as described in the project construction documents. Installation shall be subject to all applicable federal, state, and local codes as well as the installation standards specified here within.
2. Controls Installation Contractor (CIC) shall be responsible for installing all temperature control system components as described in the bid documents, to include all temperature control contractor documents. CIC is responsible for providing and installing all conduits, junction boxes, wire, and any other installation component not specifically called out on the TCC's documents and required for complete installation and operation of the temperature controls to achieve standards and design intent.
 - a. The Temperature Controls Contractor shall fully coordinate all necessary controls interface requirements with the Mechanical Contractor and applicable equipment prior to submittals.
3. Installed systems shall be subject to continuous assessment by the TCC and engineer to ensure all installation standards are being met. All verifiable and documented discrepancies to the described installation standards, performed by the CIC, shall be promptly corrected at CIC's expense, and subject to all contract provisions.
4. CIC shall install all components according to manufacturer's recommended installation specifications and specifications spelled out herein. CIC shall co-ordinate with all trades to ensure that the installation standards can be and are achieved.
5. TCC shall be available to answer any questions about temperature controls installation from any trade.
6. (CIC) Installation contractor shall install Cat 6 cable.

C. Work by Others:

1. Mechanical Contractor shall

- a. Install all taps, control valves and thermo wells in piping for all temperature sensors, flow switches, pressure sensors and any other control device installed in piping.
 - b. Fully coordinate controls interface to all mechanical equipment, with temperature controls contractor, prior to ordering equipment to meet intent of sequences of operations.
- 2. Electrical Contractor shall provide:
 - a. Wiring of any remote start/stop switches and manual or automatic motor speed control devices not furnished by BAS manufacturer.
- 3. CIC shall install DDC controller, 24V transformer and actuator provided by TCC.

1.2 SYSTEMS

- A. Controls Installation Contractor (CIC) shall be responsible for installing all temperature control system components as described in the bid documents, to include all temperature control contractor documents. CIC is responsible for providing and installing all conduits, junction boxes, wire, pneumatic tubing, and any other installation component not specifically called out on the TCC contractor's documents but required for complete installation and operation of the temperature controls to achieve standards and design intent.
- B. Installed systems shall be subject to continuous assessment by the TCC to ensure all installation standards are being met. All verifiable and documented discrepancies to the described installation standards, performed by the CIC, shall be promptly corrected at CIC's expense, and subject to all contract provisions.
- C. CIC shall install all components according to manufacturers recommended installation specifications and specifications spelled out herein. CIC shall co-ordinate with all trades to ensure that the installation standards can be and are achieved.
- D. TCC shall be available to answer any questions about temperature controls installation from any trade.
- E. (CIC) Installation contractor shall install Cat 6 cable.

1.3 DOCUMENTATION

- A. CIC shall provide a complete marked up as-build set of temperature control drawings to the TCC and the Owner. As-build set shall include and document all wiring, wiring interlocks, pneumatic paths, field changes, additions, omissions, address sequencing, power trunk sequence, and cabling paths.

1.4 CIC QUALIFICATIONS

- A. Licensed contractor with at least five years of working experience in the installation of Building Automation Systems (BAS).
- B. Demonstrated specific experience shall include cabling systems and pathways of electrical and telecommunications systems.

- C. Demonstrated experience in the installation, functional and point to point checkout, calibration, troubleshooting and startup of BAS.
- D. In addition to the technical capabilities described herein, demonstrate a production capability to plan, control and integrate manpower and other resources necessary for successful contract completion.
- E. Controls Installation Contractor (CIC) employees working this specific project shall have received installation training from the selected controls supplier.
- F. CIC shall be listed in the subcontractors and materials list by the General contractor if unified bid or the Mechanical contractor if multiple prime bid.
- G. CIC employees working this specific project shall have at least five years documented experience in the installation of commercial DDC controls. The owner may ask to verify the qualifications and experience for all field installation technicians assigned to the project prior to the approval of the CIC.
- H. CIC employees working this specific project shall attend a one hour familiarization session immediately following the project preconstruction meeting, or pre-approved time.

1.5 INSTALLATION GUIDELINES

A. CODES AND STANDARDS

- 1. Latest edition of NFPA 70 (NEC)
- 2. Current local codes
- 3. All project documents

B. VENDOR DEVICES

1. REFERENCE MANUALS

- a. Honeywell Controls
 - 1) Honeywell Installation Manual
- b. All manufacturer provided installation guidelines and procedures.

2. FLEXIBLE TEMPERATURE SENSORS

- a. All flexible sensors shall be attached by wire ties to a suspended wire or insulated cable to prevent sensor contact with metal or other unit components.
- b. Install flexible sensors across all coils at a maximum of 6" from the bottom of the bottom coil and a minimum of 7" radius to turn the sensor.
- c. Staggered coils shall utilize multiple sensors; each sensor shall cover one section of the staggered coil. There should be roughly one foot of sensor per square foot of coil area.
- d. All flexible sensors shall be protected at point of penetration of unit via a section of poly tubing to prevent contact of the sensor and the unit.
- e. Install flexible sensor so as the entire length of the sensor, less the wiring connection point, shall be in contact with the air stream being monitored. Excessive lengths of

sensor outside the air stream or located in areas without air movement is not acceptable.

- f. Install all static switches on the air-handling unit at a maximum height of 6'5" to the center of the switch. Utilize hard or soft copper for pressure sampling tubes. Install sample tubes in a craftsman like manner and terminate in the sampled air with an appropriate pressure terminal. Bending the end of the copper tubing in the airstreams is not acceptable.

3. FLUID DIFFERENTIAL PRESSURE SENSOR

- a. Fluid differential pressure sensors shall be mounted a minimum of 8" from the top of a wall or column, or as high as possible without interfering with other trades, manifold shall be on top. Utilize hard copper tubing for connection from pipe to manifold.

4. CONTROL PANELS

- a. All control panels shall be mounted to u-channel. Panel may be mounted on a stand constructed from u-channel and properly secured to the floor and at least one non floor location preferably the deck, if wall space is not available or if shown as such on construction drawings.
- b. The maximum mounting height is such that the user interface/display is no higher than 6' above the finished floor surface directly under the control readout.
- c. All penetrations shall be made on the top of the control panel.
- d. 120VAC and low voltage must utilize separate penetrations
- e. All pneumatic penetrations shall be made on the opposite end of the 120VAC penetration.

5. METAL CONDUIT

- a. Adhere to current NEC and Local Codes
- b. Control conduits will be considered secondary to other trades and must heed right of way when there are conflicts.
- c. All control wiring conduit is EMT, 3/4" minimum size, and shall be installed in a craftsman like manner, parallel to the building structure. All connections, fittings, supports, etc. shall be tight and secure.
 - 1) Mechanical areas: All wiring in EMT conduit
 - 2) Space sensors: All wiring in EMT conduit in wall construction
 - 3) Non Accessible ceilings: All wiring in conduit EMT
 - 4) Shaft spaces: All wiring in conduit EMT, 1" minimum size
 - 5) Pass through building structure walls above plenum ceiling spaces shall utilize a sleeve of EMT conduit, 12" in length, with end steel compression box end fittings or plastic/rubber grommets and fire stopped if the wall is fire rated.
 - 6) Flexible metal conduit (FMC) may be utilized when approved in instances where sensors are to be located in existing walls.

- d. All EMT connections shall utilize steel compression fittings up to 1 ½" conduit. Above 1 ½" may utilize steel set screw fittings.
 - 1) All non-terminated, non-connected, open ends of conduit must utilize either a plastic/rubber grommet or box connector.
- e. All conduits shall be supported directly from or to structural members. Additional support shall be provided at junction and pull boxes.
 - 1) Conduits shall be supported by trapeze hangers or pipe straps and shall have their support spaced not to exceed 10' on center, or a minimum of one support per piece of conduit. With approval, it is acceptable to use other electrical trapeze, but not other conduits.
 - 2) All junction boxes must have a minimum of two anchors per box. Boxes larger than 8" X 8", shall have a minimum of four anchors per box.
 - 3) All conduits shall be run as close to the ceiling if possible. Make all conduit drops at point of connection. Do not run conduit across walls below 8' in mechanical spaces.
- f. All boxes shall utilize all normally provided mechanical fasteners to secure their covers.
- g. All conduits and junction box covers shall be labeled "Temperature Controls" with a minimum of ½" lettering. Labels shall be placed on every box cover, every 20' on center and within 6" on each side of each wall or structural penetration.
- h. A maximum of 20" of FMC may be used to connect any control device to a junction box. Use FMC to isolate all components that have the potential for vibration.
- i. FMC must be secured with an appropriate sized FMC one-hole clamp if used inside equipment, such as air handling units.
- j. Liquid tight FMC must be utilized on all final connections in moist/damp locations, inside all Air Handling Units and in all locations exposed to the weather.
- k. Power and low voltage wiring shall not be run in the same conduit.
- l. Electrical wiring shall not be run in the same conduit with poly tubing.
- m. Where more than one panel is mounted together, utilize square duct wire way, 4" X 4" minimum, to connect all panels. Provide one extra 1" EMT conduit from each panel to square duct wire way for future expansion.

6. LOW VOLTAGE CABLE

- a. Adhere to current NEC and Local Codes.
- b. Splicing of cables is not permitted. All connections shall be point to point. If splicing is completely unavoidable, utilize an appropriate sized junction box with terminal blocks to make the connections. Wire nuts are not acceptable, except for devices with integral pigtails (put splice in JB for protection).
- c. Accessible ceilings: Plenum rated cable bundled neatly, run, and mechanically attached to and parallel with the building structure. Use of existing cable tray is

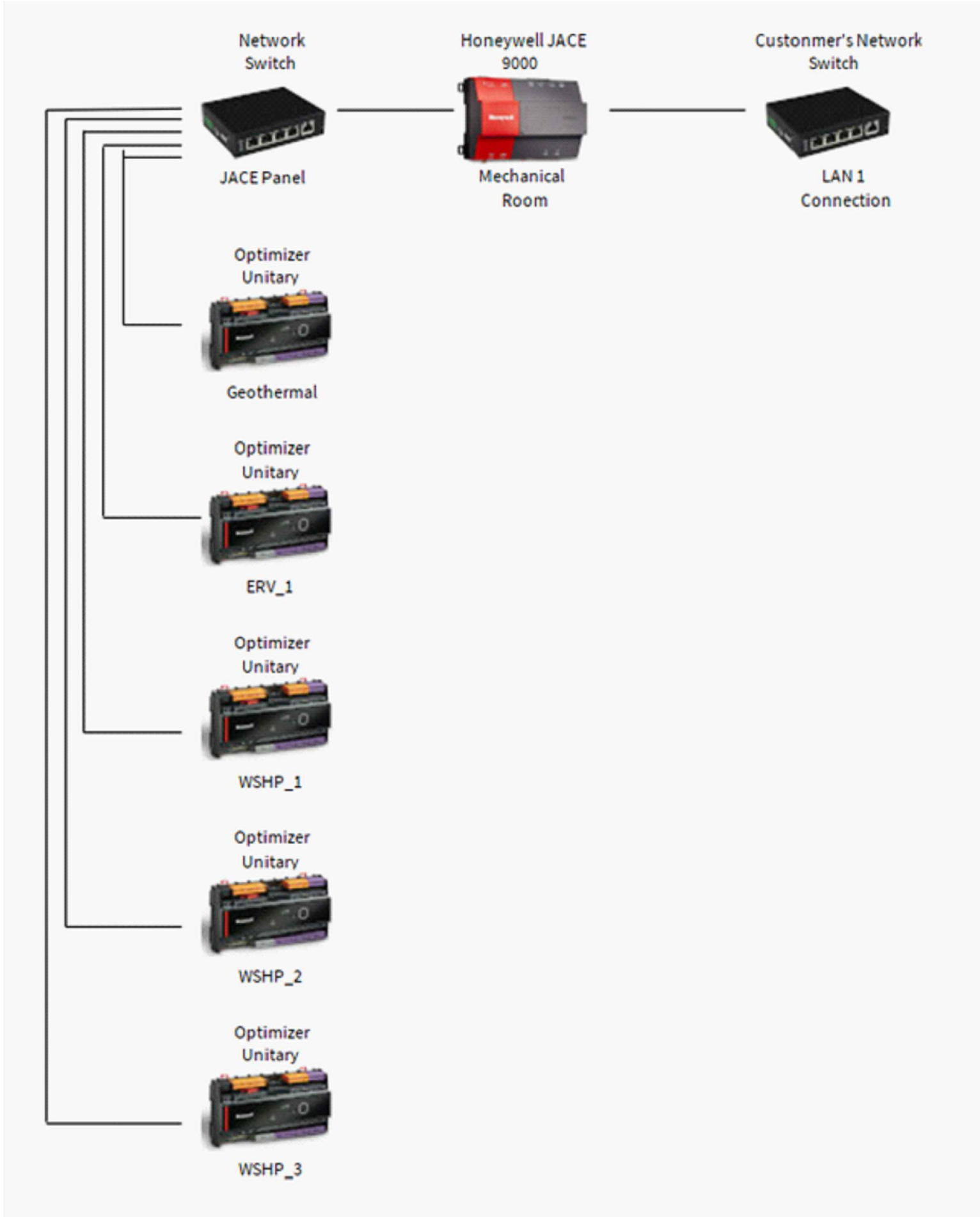
acceptable with prior approval. Such cables shall be attached to the side of the tray and NOT be inside the tray with cables of other systems. Cable shall be supported high out of harm's way from damage from personnel or tools by J hooks every five ft. minimum. Velcro straps are permissible with prior approval. The lowest part of any cable shall be a minimum of 12 in. above the grid.

- d. Low voltage pigtails shall be connected to a cable inside of a box when practical. Pigtails of 7 inches or less shall be securely connected via proper wirenuts, and gently wrapped with Velcro straps to keep the wire nuts from being knocked loose.
- e. All open cable shall be run out of harm's way, as close to the ceiling as practical, completely off the ceiling lowest point minimum of 12" above the ceiling assembly, parallel to the building lines, supported by J hooks or bridle rings, or using Velcro straps when necessary or tie straps when approved.
- f. If the CIC installs occupancy sensor wiring, the same requirements apply. The sensor shall be supported by a box and grid bracket. The cabling shall be out of harm's way as above. See the occupancy sensor mounting detail on E-series drawings for further description.
- g. Ethernet cable: Provide and install Cat. 6 cable to connect system to TCC provided network switches and controllers.

7. LINE VOLTAGE CABLE

- a. All 120VAC wiring shall be minimum solid copper, 12 THHN, 600-volt insulation.
- b. Panel 120VAC power circuit shall be dedicated for building automation system components only. Power shall be run from emergency circuit panels, if emergency power is available in the building. Confirm responsibility for panel 120VAC.
- c. External control devices powered via 120VAC from the control panel shall utilize a non-fused or fused switch to isolate those devices from the power to the controller. The switch shall be installed in the control panel in such a way as to allow power to be easily disconnected from each control device individually without removing power to the panel completely.
- d. PIPING
 - 1) Water Lines: 0-150 psig
- e. RELAYS
 - 1) Install in accordance to (NEC) NFPA 70-2005 Article 725.55

END OF SECTION



NETWORK RISER

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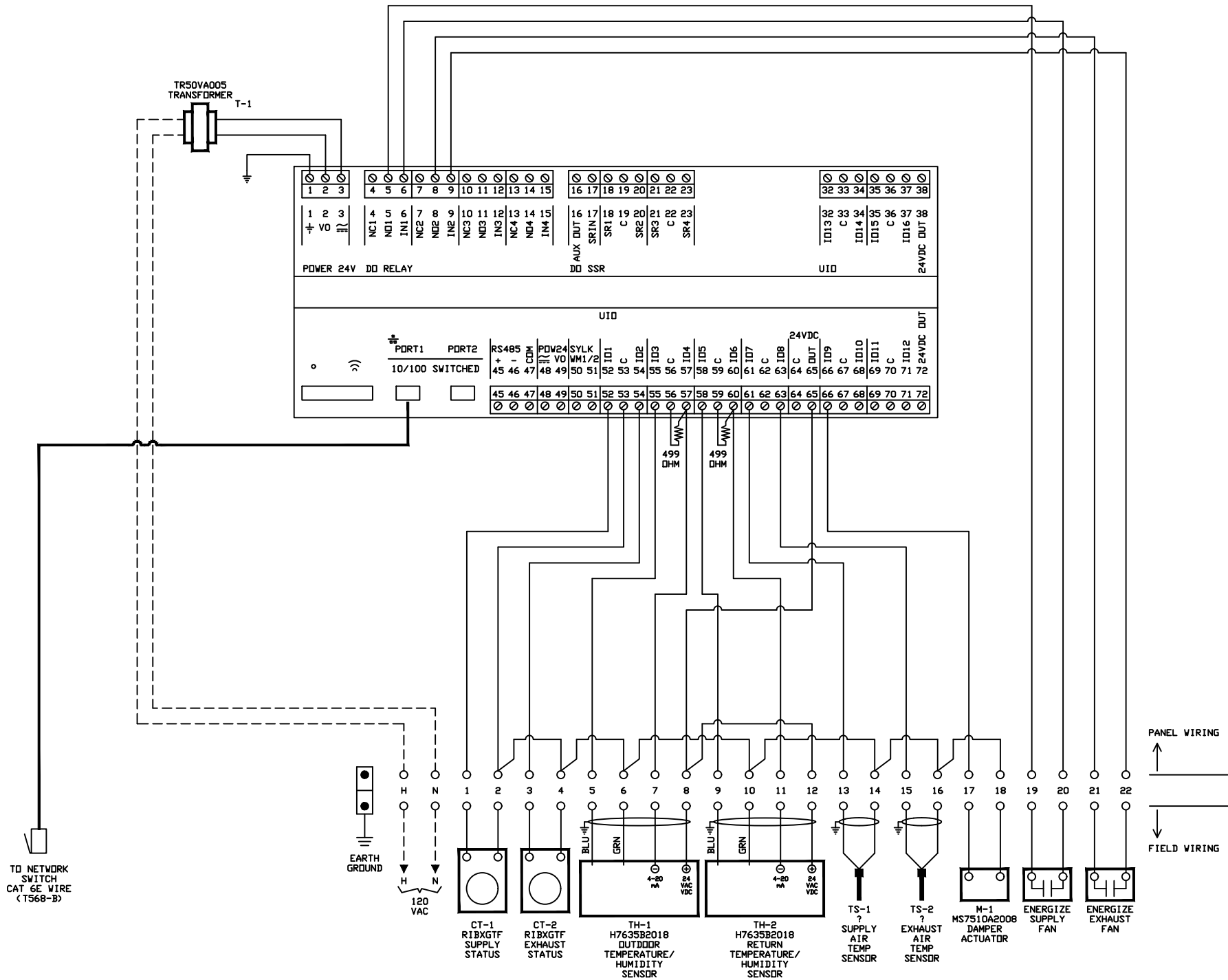
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BILL OF MATERIAL			
PANEL DEVICES			
C-1	1	UN-RS1644ES24NMC	Unitary-16UID, 4SSR, 4Rel, RJ45, Sylk, 24VA/VD Controller
T-1	1	TR50VA005	120VAC/24VAC transformer w/ circuit breaker
FIELD DEVICES			
CS-1,2	2	R18XGTF	Split ring fixed current sensor
TS-1,2	2	C7041B2013	Duct Sensor 20K, 12" Probe
TH-1,2	2	H7735B2018	Duct humidity sensor, 3% RH w/ 20k temperature sensor
M-1	1	MS7510A2008	Damper actuator

C-1 ID SUMMARY LIST			
ID1	SUPPLY FAN STATUS	NC1	SPARE
ID2	EXHAUST FAN STATUS	ND1	SUPPLY FAN S/S
ID3	OUTDOOR AIR	NC2	SPARE
ID4	OUTDOOR AIR HUMIDITY	ND2	EXHAUST FAN S/S
ID5	RETURN AIR	NC3	SPARE
ID6	RETURN AIR HUMIDITY	ND3	SPARE
ID7	SUPPLY AIR	NC4	SPARE
ID8	EXHAUST AIR	ND4	SPARE
ID9	OUTDOOR DAMPER	SR1	SPARE
ID10	SPARE	SR2	SPARE
ID11	SPARE	SR3	SPARE
ID12	SPARE	SR4	SPARE
ID13	SPARE		
ID14	SPARE		
ID15	SPARE		
ID16	SPARE		



NOTES:

ALL TEMPERATURE SENSORS MUST BE RUN IN 18 AWG SHIELDED CABLE.

TAG ALL WIRES WITH RESPECTIVE PANEL TERMINAL NUMBER.

ALL WIRING MUST MEET LOCAL AND NATIONAL ELECTRICAL CODES.

* INDICATES DEVICE IS EXISTING OR BY OTHERS

— LOW VOLTAGE-18 AWG MINIMUM

- - - LINE VOLTAGE-14 AWG MINIMUM

— CAT 6E NETWORK WIRE USING T568-B WIRE CONNECTION

○ DDC PANEL WIRED TERMINATION

x

ERV CONTROL PANEL
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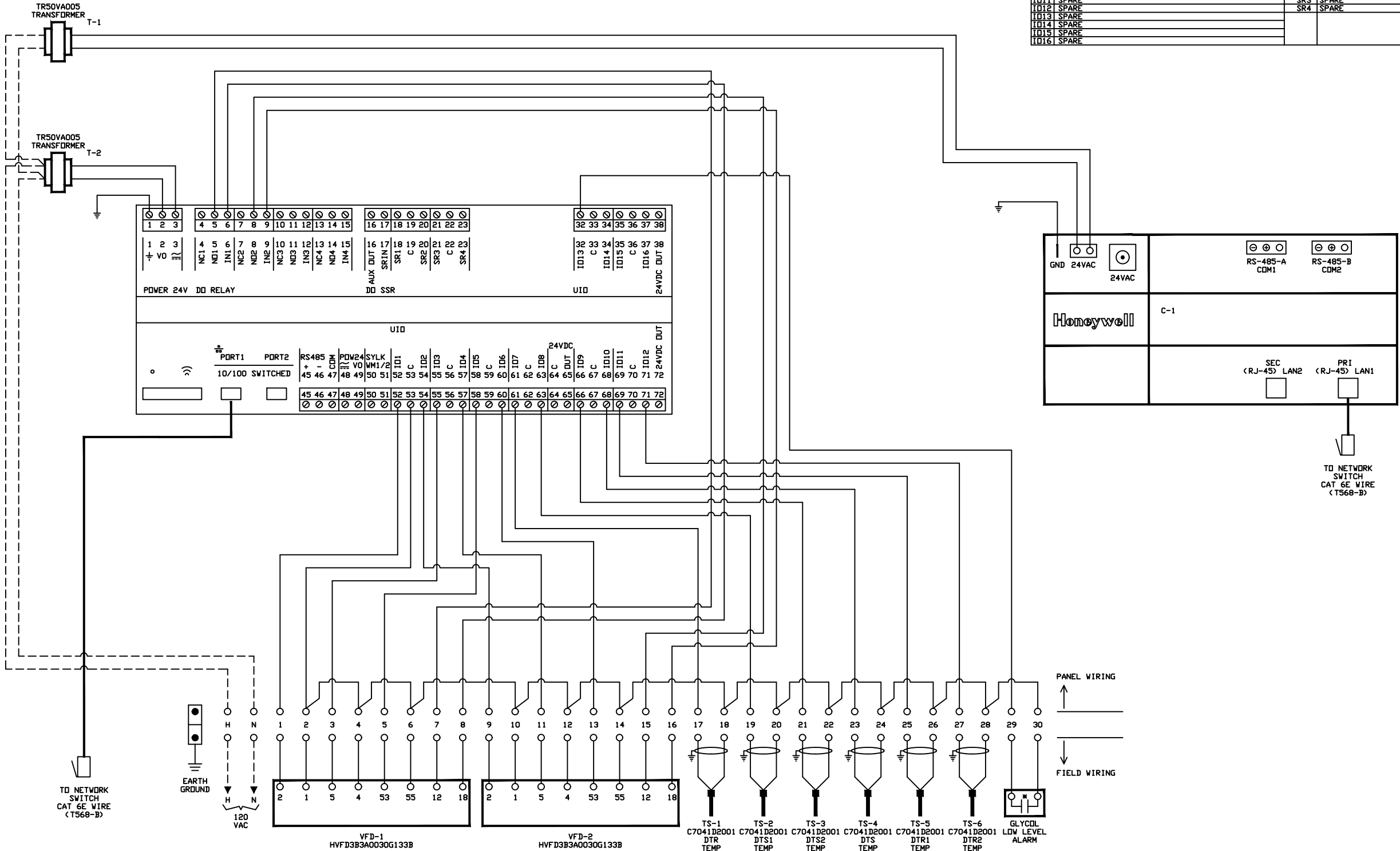
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BILL OF MATERIAL			
PANEL DEVICES			
C-1	1	UN-RS1644ES24NMC	Unitary-16UID, 4SSR, 4Rel, RJ45, Sylik, 24VA/VD Controller
T-1, 2	2	TR50VA005	120VAC/24VAC transformer w/ circuit breaker
FIELD DEVICES			
VFD1, 2	2	HVFD3B3A0030G133B	Honeywell Smart VFD
TS-1 - 6	6	C7041D2001	5' Inch Insertion Immersion -40 to 250°F
	W/6	50001774-001	5' Stainless Steel Immersion Well

C-1 IO SUMMARY LIST			
ID1	VFD1 STATUS	NC1	SPARE
ID2	VFD2 STATUS	ND1	VFD1 S/S
ID3	VFD1 FAULT	NC2	SPARE
ID4	VFD2 FAULT	ND2	VFD2 S/S
ID5	VFD1 SPEED	NC3	SPARE
ID6	VFD2 SPEED	ND3	SPARE
ID7	SPARE	ND4	SPARE
ID8	SPARE	NC4	SPARE
ID9	SPARE	SR1	SPARE
ID10	SPARE	SR2	SPARE
ID11	SPARE	SR3	SPARE
ID12	SPARE	SR4	SPARE
ID13	SPARE		
ID14	SPARE		
ID15	SPARE		
ID16	SPARE		



NOTES:
ALL TEMPERATURE SENSORS MUST BE RUN IN 18 AWG SHIELDED CABLE.
TAG ALL WIRES WITH RESPECTIVE PANEL TERMINAL NUMBER.
ALL WIRING MUST MEET LOCAL AND NATIONAL ELECTRICAL CODES.
* INDICATES DEVICE IS EXISTING OR BY OTHERS
— LOW VOLTAGE-18 AWG MINIMUM
--- LINE VOLTAGE-14 AWG MINIMUM
—— CAT 6E NETWORK WIRE USING T568-B WIRE CONNECTION
○ DDC PANEL WIRED TERMINATION
X

GEOTHERMAL CONTROL PANEL TYPICAL OF 1

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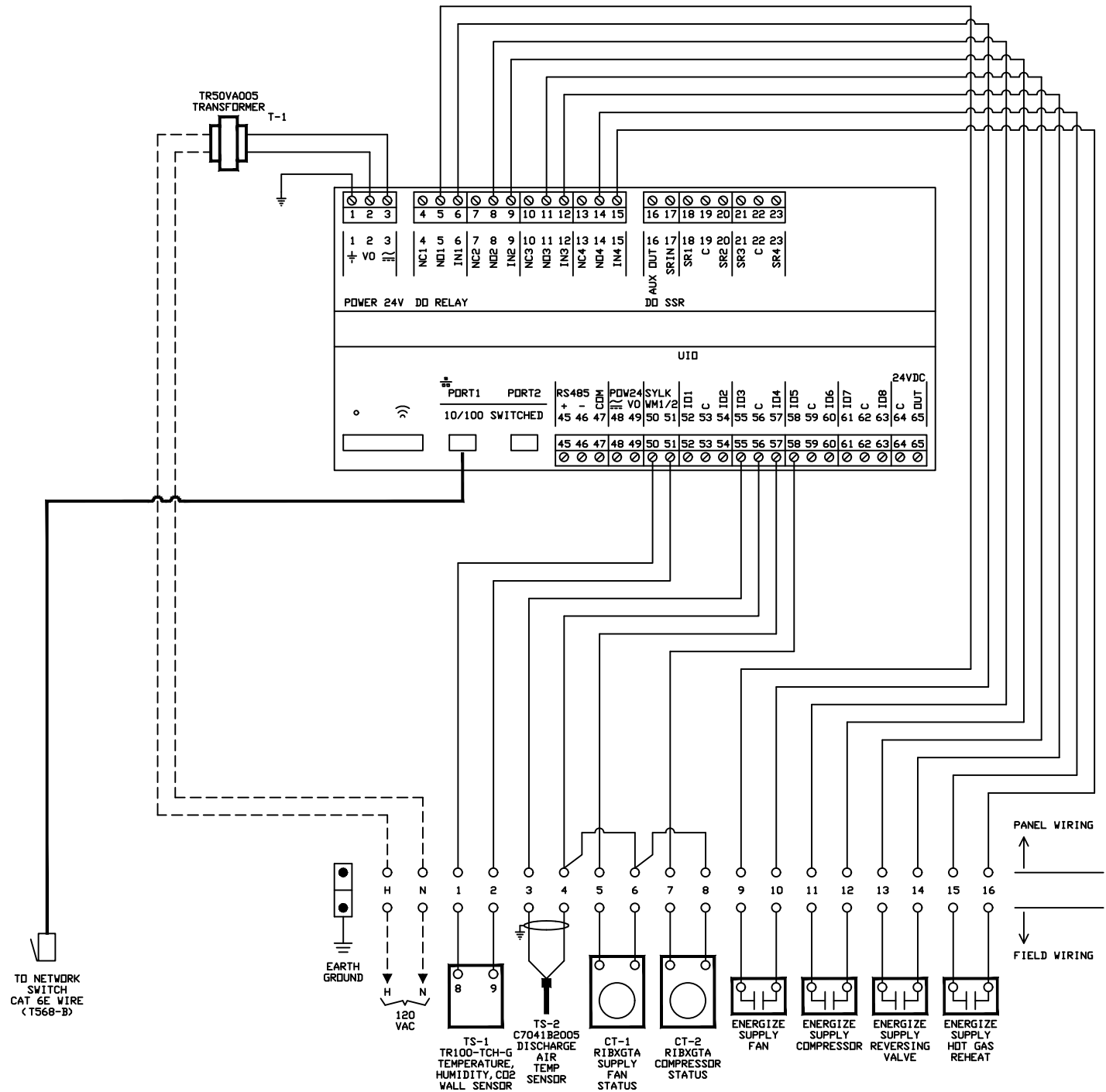
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BILL OF MATERIAL			
PANEL DEVICES			
C-1	1	UN-RS0844ES24NMC	Unitary-BUID, 4SSR, 4Rel, RJ45, 24VA/VD Controller
T-1	1	TR50VA005	120VAC/24VAC transformer w/ circuit breaker
FIELD DEVICES			
TS-1	1	TR100-THC-G	20K temperature, humidity, CO2 Sylk Wall Module
CT-1	1	R18XKTF	Enclosed split ring adjustable current sensor
TS-1	1	C7041B2005	Duct Sensor 20K, 6" Probe

C-1 ID SUMMARY LIST	
ID1 SPARE	NC1 SPARE
ID2 SPARE	NC1 SUPPLY FAN
ID3 DISCHARGE SENSOR	NC2 SPARE
ID4 FAN STATUS	NC2 COMPRESSOR
ID5 COMPRESSOR STATUS	NC3 SPARE
ID6 SPARE	NC3 REVERSING VALVE
ID7 SPARE	NC4 SPARE
ID8 SPARE	NC4 HOT GAS REHEAT
	SR1 SPARE
	SR2 SPARE
	SR3 SPARE
	SR4 SPARE



NOTES:
ALL TEMPERATURE SENSORS MUST BE RUN IN 18 AWG SHIELDED CABLE.
TAG ALL WIRES WITH RESPECTIVE PANEL TERMINAL NUMBER.
ALL WIRING MUST MEET LOCAL AND NATIONAL ELECTRICAL CODES.
* INDICATES DEVICE IS EXISTING OR BY OTHERS
— LOW VOLTAGE-18 AWG MINIMUM
--- LINE VOLTAGE-14 AWG MINIMUM
— CAT 6E NETWORK WIRE USING T568-B WIRE CONNECTION
○ DDC PANEL WIRED TERMINATION
X

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