



## Addendum No. 1

**Project:** Salem Community Schools  
2021 FEMA Safe Room Additions

**Subject:** Addendum No. 1

**Date:** April 9, 2021

**Project No.:** 202020.01/02

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This addendum is a part of the bid documents. Acknowledge receipt on the proposal form.

### GENERAL

1. The pre-bid meeting minutes are issued as a part of this addendum.
2. Refer to attached Shroul Tate Wilson document for mechanical, plumbing, and electrical items.

### SPECIFICATIONS

3. Section 00 22 13 - replace Article 9.5 with the following:  
Article 3 - BIDDING DOCUMENTS, Paragraph 3.4.3 change time frame from 4 days to 24 hours.
4. Section 00 42 01 - replace Proposal Form: Part 1 in its entirety with the attached revised document. The Allowance section has been revised to include allowance amounts. Contractor shall initial to acknowledge allowances are included in Base Bid lump sum. An Itemized Base Bid Costs section has been added.
5. Section 00 43 93 -  
Article 1.02A add: Certification of Compliance with Federal Provisions in Section 00 45 46.01.  
Article 1.03 documents are no longer required within 24 hours following bid, but must be provided prior to contract execution.
6. Section 00 73 43 - delete Article 1.04. Wage scale is federal Davis Bacon, not Indiana wage scale.
7. Section 01 21 13 - Security / Access Control Allowance: **\$50,000**.
8. Section 05 50 00 - Article 2.06, Paragraph E, replace with the following: Vertical support posts shall be surface bolted to concrete, unless otherwise noted on Drawings.
9. Section 07 21 00 -  
Article 1.01, Paragraph B, add the following: 5. Thermal Break Material  
Article 2.01, add the following:
  - F. Thermal Break Material
    1. "Thermal Bridging Solutions", Thermal Break Material (TBM-1) or approved equivalent.
    2. Physical Properties:
      - a. Compressive Strength: 30,000 psi
      - b. Thermal Conductivity: 1.71 BTU/in/hr/ft<sup>2</sup>/°F
      - c. Thickness: 1/4" (R-value: 0.15), unless otherwise noted
    3. Install between external surface of exterior CMU walls and all steel angle and/or bent steel plate lintels/supports bolted at cavity wall space (whether shown or not) and at other locations as indicated on the Drawings.



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10. Section 08 71 00 - Article 2.06, replace Paragraph D with the following:

D. Basis of Specification Products for Tornado Resistant Assemblies:

1. Surface Vertical Rod (SVR) Panic Device: Von Duprin WS9927 Series.
  - a. Provide "06" Lever Trim with function as indicated; verify function with Owner.
  - b. Provide devices with anti-intruder function as indicated on hardware sets which enables the doors to be closed and locked from the inside of the room, allow egress from the inside without the use of a key, and remain locked upon re-closing without relocking by key. Equal to Von Duprin -2SI with Double Cylinder, "06" Lever Trim, and security indicator. No cylinder dogging permitted at these devices.
  - c. Only compression springs shall be used in devices, latches and outside trim and/or controls.
  - d. Provide Cylinder Dogging on all devices, unless specifically indicated otherwise.
  - e. Provide cylinders for all panic devices to be compatible with brand of locksets provided for building's master keying system.
  - f. Provide fire rated devices for all rated door assemblies.
  - g. Exit devices shall be tested to ANSI/BHMA A156.3 test requirements by a BHMA certified laboratory. A written certification showing successful completion of a minimum of 1,000,000 cycles shall be provided upon request.
  - h. Touch pad shall extend a minimum of one half of the door width. Maximum unlatching force shall not exceed 15 pounds. End cap will have three-point attachment to the door.
  - i. Provide roller strikes for all surface-mounted vertical rod devices.
  - j. All devices to incorporate a security dead-latching feature.
  - k. Provide with rod guard on bottom surface vertical rod.
  - l. Provide with WS-LGO Series ADA bottom latch guard cover.
2. Electrified Surface Vertical Rod (SVR) Panic Devices: Von Duprin WS9927 Series.
  - a. Provide equal to Von Duprin E996L electrified Lever Trim with cylinder operation for night latch function on all devices, unless indicated otherwise.
  - b. Provide equal to Von Duprin QEL Quiet Electric Latch Retraction option to allow for a credential reader to unlatch and retract the latch bolt.
  - c. Provide SD-EL Special Center Case Dogging for cylinder dogging capability.
  - d. Provide cylinders for all panic devices to be compatible with brand of locksets provided for building's master keying system.
  - e. Provide equal to Von Duprin EPT-2 Power Transfer.
  - f. Provide equal to Von Duprin PS914 Power Supply.  
Provide equal to Von Duprin 900-2RS option for 2 relay EL panic device control board.
  - g. Field convertible between Fail-Safe and Fail-Secure.  
Upon loss of power, the panic device and trim shall fail to Fail Secure condition so that the door remains in a locked position to maintain security to the building and spaces.
3. 3-point Lockset, Restroom: Schlage LMV 9350.
  - a. Provide "06" lever with Office/Entry function and N escutcheon.
  - b. Provide with L583-363 ADA thumb turn.
  - c. Provide with L283-722 occupied/vacant outside trim.
4. 3-point Lockset, Tornado Shutter: Schlage LM 9325.
  - a. Provide "06" lever with Exit function and A rose.
5. Hinges: Ives 5BB1WT
  - a. Refer to 2.05, B for additional notes and requirements.
6. Continuous Hinges: Ives 700
  - a. Refer to 2.05, B for additional notes and requirements.



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7. Electric Continuous Hinge: Ives 700CS w/ TWP
  - a. Refer to 2.05, B for additional notes and requirements.
8. Surface Mounted Closer: LCN 4110 Series (4111 cylinder).
  - a. Refer to 2.05, H for additional notes and requirements.
9. Electromagnetic Door Holder: LCN SEM 7800
10. Door Position Switch: Schlage 679-05 HM.
  - a. Refer to 2.05, W for additional notes and requirements.
11. Kick Plates: Ives 8400
  - a. Refer to 2.05, T for additional notes and requirements.
12. Thresholds: Zero International
  - a. Must not impede or affect the function of the opening or latching hardware.
  - b. Must grout full in area around strike to secure strike in slab.
  - c. Refer to 2.05, M for additional notes and requirements.
13. Seals/Gaskets/Sweeps/Bottoms (Weatherstripping or Fire/Smoke Seals): Zero International
  - a. Must not impede or affect the function of the opening or latching hardware.
  - b. Refer to 2.05, N for additional notes and requirements (excluding Items 1 & 2).
11. Section 08 71 00 - Article 2.07, add Hardware Sets per the attached Hardware Schedule.
12. Section 09 51 13 -  
Change item number for System Type "D" to 4.  
Change item number for Extruded Aluminum Perimeter Trim to 5.
13. Section 10 13 00.01 - Article 2.02.A, change to include 32 total letters for bidding purposes.
14. Section 10 14 16.01 - Article 2.01, add the following:
  - C. Schedule
    1. Provide (1) plaque at the High School, see Volume 1, Drawing Q101 for general location.
    2. Provide (1) plaque at the Middle School, see Volume 2, Drawing Q101 for general location.
    3. Plaques will not be duplicates; each building will have a unique layout.

### VOLUME 1 DRAWINGS (HIGH SCHOOL)

15. As a general clarification, cavity wall insulation shall be continuous from top to bottom of wall without significant gaps. Insulation will be interrupted by through wall flashing, but no gaps shall be present.
16. As a general clarification, all vertical support posts for exterior pre-finished aluminum handrails and guardrails shall be surface bolted to concrete (not core drilled and epoxied).
17. As a general clarification, refer to Drawing Q101, Keynotes Q19 and Q20 for distinctions between acoustical wall panel Types A and B.
18. Drawing A401: Ceiling Panel Legend Clarifications -
  - Add **Recording 127** to note in box below Ceiling Panel Legend. This room was inadvertently not listed.
  - Ceiling Panel Legend and hatch patterns on plan **ONLY** apply to rooms listed in the note below the legend. These hatches are used to identify installation patterns for the listed rooms with multiple ceiling types.
  - Ceiling Types in rooms NOT included in the note below the legend have a single ceiling type throughout the room and are identified on the Finish Plan / Finish Schedule on Drawing I101. Contractor to note: THESE ROOMS ARE NOT ALL VINYL COATED GYPSUM. They generally have either Ceiling Type "A", Fine Fissured (Finish Plan symbol: AC1) OR Ceiling Type "B" Vinyl Coated Gypsum (Finish Plan symbol: AC2) as indicated on the Finish Plan.



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19. Drawing A501: Elevation 4 (East) - change exterior signage to read “Fine Arts Center & Community Safe Room.”
20. Drawing A-801: See attached Hardware Schedule for Finish Hardware Sets. Applicable door numbers are listed with each hardware set.
21. Drawing Q101: delete Keynote Q15 and all references on Equipment Plan.
22. Drawing I101: change Ceiling Identification AC1 to AC2 in the following rooms - Choir 101, Practice 104, Practice 105, Band Room 116, Practice 117, Practice 118, Ensemble 119, Ensemble 120, and Recording 127. Other ceiling types listed in these rooms are to remain unchanged.

### VOLUME 2 DRAWINGS (MIDDLE SCHOOL)

23. As a general clarification, there are portions of the existing building with an existing polyurethane foam roofing system with protective coating which may be affected by new work. The Owner has a maintenance contract with Insulated Roofing Contractors in New Albany, Indiana (812) 206-7700. General Contractor shall hire this subcontractor and cover all costs to perform all work required to existing roof due to new construction. Maintain all roof warranties.
24. As a general clarification, all vertical support posts for exterior pre-finished aluminum handrails and guardrails shall be surface bolted to concrete (not core drilled and epoxied).
25. Drawing G-100:  
As a general clarification, the lines dividing the floor plans into Areas A, B, C, & D were from a previous project and are not applicable for the FEMA Safe Room Project.  
As a general clarification, the 2-Hour Rated Fire Barrier is required by ICC-500-2014, Section 601.1.
26. Drawing G-101:  
As a general clarification, the Sprinkler System shall meet NFPA 13 throughout the entire existing building and new addition.  
As a general clarification, Safe Room Doors Note is procedural storm event info only. Replace “lock doors” with “confirm doors have fully latched. Safe Room Tornado resistant doors shall have free egress.”
27. Drawing A-801: See attached Hardware Schedule for Finish Hardware Sets. Applicable door numbers are listed with each hardware set.

Prepared by,

John A. Hawkins, AIA



End of Addendum No. 1 (42 total pages w/ attachments)

Enclosures: Pre-Bid Meeting Minutes + sign-in sheet, revised Proposal Form: Part 1, Hardware Schedule, Shroul Tate Wilson MEP addendum items

file: 202020.01,02/E-1

## PRE-BID MEETING SIGN - IN

**Project:** Salem Community School Safe Rooms. **Project No.:** 202020.01 & .02  
**Subject:** Pre-Bid Meeting **Date:** April 1, 2021  
**Location:** Salem Community School Admin Building, 500 N Harrison St., Salem, IN 47167

Name (PRINT)	Representing	Email Address	Phone Number
BRENDAN BROWN	KOVERT HAWKINS	brendan.brown@koverthawkins.com	812-282-9554
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ZACH DUGAN	STW	zach.dugan@stweng.com	(612) 449-7092
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Name (PRINT)	Representing	Email Address	Phone Number
Mike Lynch	Kutvuctiawa Electrical services	mikeL@Keston.com	502 - 709 - 059



## PRE-BID MEETING MINUTES

**Project:** Salem Community School Safe Rooms      **Project No.:** 202020.01&.02  
**Subject:** Pre-Bid Meeting      **Date:** April 1, 2021  
**Location:** Salem Community School Admin Building, 500 N Harrison St., Salem, IN 47167

### I. General and Clerical Issues

1. Project Description: HS Safe room /Band/Choir Addition ; MS STEAM Center Addition. Funded by two FEMA grants and a bond. The two safe rooms are being bid as one project. Separate paperwork will be required for the separate FEMA grants (separate pay applications, wage reports, etc.) See Spec 01 11 00 Summary of Work
2. Confirmation of Bid Date & Bid Procedures
  - A) Bid Date: April 29, 2021 at 4:00 PM at the school administration building (500 N Harrison)
  - B) Bid must include:
    - 1) Proposal Form Parts I & II (One lump sum bid for the entire project)
    - 2) Financial Statement
    - 3) Bid Security (Bond or Certified Check)
    - 4) Acknowledge Addenda on Proposal Form
    - 5) Fill in allowances on bid form (two allowance items in base bid: access control & contingency)
  - C) Subcontractor List & Schedule of Values are **not** required with bid.
  - D) State and Federal Governmental Requirements. Chelsea Crump is the grant administrator with River Hills and reviewed the federal requirements. Wage scale is in the specs. A final wage scale will be issued by addendum within 10 days of the bid date. Contact Chelsea for any questions about the wage scale. Weekly payroll reports will be required that demonstrate the wage scale with fringes is being paid. Chelsea will conduct wage interviews during construction.
    - 1) Certification by IDPW or INDOT, drug testing, E-verify, apprenticeship (see spec 00 45 46.02).
    - 2) Federal Requirements: Section 00 45 45.01 Certification of Compliance (submit with bid)
3. Explanation of Alternate Bids: The following alternates are described in the specifications:
  - Alt #1 (cavity wall insulation - spray foam); Alt #2 (veneer wall ties - closer spacing);
  - Alt #3 (wind & impact windows in addition to base bid shutters);
  - Alt #4 (EPDM roofing - FM990 HS only); Alt #5 (generator mfg);
  - Alt #6 (north egress sidewalk - HS only); Alt #7 (epoxy terrazzo); Alt #8 (appliances);
  - Alt #9 (recording 127 equipment - HS only)

John noted that the current plans, specifications and addenda are updated on the architect's website at [www.koverthawkins.com/bid-information](http://www.koverthawkins.com/bid-information). Bidder who register on the website will be emailed addenda immediately upon publication. Registration on the architect's website is free. Downloading of documents requires registration on the architect's website, but there is no charge to register. Any other service claiming to be the sole source of bid information is making a false claim. Any service claiming that a fee is required to obtain bid information is making a false claim, and could be a scam.

### II. Scheduling and Coordination

#### I. Working Conditions & Special Issues

- A) Staging Area / Trailer location: John suggested that geothermal well fields may be a good place for staging area, but noted the specific staging areas would need to be coordinated by the GC.
- B) Work in occupied areas: Coordinate work within the existing buildings with Owner so as not to disrupt occupancy.
- C) Fire exiting.. Coordinate obstruction of exits with Owner and Architect and local fire chief.



2. Construction Schedule Substantial Completion: July 29, 2022 (See spec 01 11 00)

### **III. Administrative Issues**

1. Post-bid Schedule: Board meeting May 10, 2021. Mobilization & startup upon award and notice to proceed.
2. Addenda Items: These minutes will be issued in Addendum #1, along with clarifications regarding power for coiling grilles, and bid checklist clarifications. Access control allowance will be issued by addendum.

### **IV. Technical Issues**

1. Questions. No questions were asked during the meeting.
2. Tour: A tour was conducted after the meeting. To schedule access to the existing buildings contact the administration office at (812) 883-4437.

file: 202020.01 / E-1; 202020.02 / E-1



PROPOSAL FORM: PART I  
Form 96 (Revised 2013)

**CONTRACTOR'S BID FOR PUBLIC WORKS**  
Prescribed by the State Board of Accounts

CONTRACTORS BID FOR: *2021 FEMA Safe Room Additions*  
Salem High School & Salem Middle School  
700 N. Harrison St, & 1000 N. Harrison St., Salem, IN 47167

PART I  
**(Part I to be completed for all bids)**

Date (Month, Day, Year): \_\_\_\_\_  
Governmental Unit (Owner): SALEM COMMUNITY SCHOOL CORPORATION  
County: \_\_\_\_\_  
Bidder (Firm): \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_  
Fax No.: \_\_\_\_\_  
E-Mail Address: \_\_\_\_\_  
Agent of Bidder:  
(if applicable) \_\_\_\_\_

Pursuant to notices given, the undersigned offers to furnish labor and/or material necessary to complete the public works project of SALEM COMMUNITY SCHOOL CORPORATION (Governmental Unit) in accordance with plans and specifications prepared by Kovert Hawkins Architects, Inc. and their consultants for the sum of:

BASE BID – (SALEM HIGH SCHOOL & SALEM MIDDLE SCHOOL)

Lump Sum \_\_\_\_\_ \$ \_\_\_\_\_

The undersigned further agrees to furnish a bond or certified check with this bid for an amount specified in the notice of the letting. If alternative bids apply, the undersigned submits a proposal for each in accordance with the notice.

ADDENDA

Acknowledges receipt of:

Addendum No. \_\_\_\_\_ ( ) pages Dated \_\_\_\_\_

Addendum No. _____ ( ) pages	Dated _____
Addendum No. _____ ( ) pages	Dated _____
Addendum No. _____ ( ) pages	Dated _____

ALTERNATES

The undersigned also proposes to furnish or to omit all labor and materials necessary to complete work as required by the Alternate Bids, as provided in the specifications as follows:

Alternate No. 1:	<i>Cavity Wall Insulation</i>	\$ _____
Alternate No. 2:	<i>Veneer Wall Ties</i>	\$ _____
Alternate No. 3:	<i>Wind &amp; Impact Windows</i>	\$ _____
Alternate No. 4:	<i>EPDM Roofing</i>	\$ _____
Alternate No. 5:	<i>Generator Manufacturer</i>	\$ _____
Alternate No. 6:	<i>North Egress Sidewalk</i>	\$ _____
Alternate No. 7:	<i>Epoxy Terrazzo</i>	\$ _____
Alternate No. 8:	<i>Appliances</i>	\$ _____
Alternate No. 9:	<i>Recording 127 Equipment</i>	\$ _____

ALLOWANCES

By initialing adjacent to amounts below, bidder acknowledges allowance amounts are included in the forgoing bid:

**Security/Access Control Allowance** within the **Base Bid** per Section 01 21 13 **\$ 50,000.00** initials \_\_\_\_\_

**Contingency Allowance** within the **Base Bid** per Section 01 21 16 **\$ 400,000.00** initials \_\_\_\_\_

ITEMIZED BASE BID COSTS

The following values are for scopes of work INCLUDED within the Base Bid and these costs shall be INCLUDED within the Base Bid Lump Sum amount provided on this Proposal Form. These itemized costs are for informational purposes and MUST be provided to be considered a valid bid.

**Middle School Fire Alarm System Itemized Cost**

\$ \_\_\_\_\_ Base Bid Material and Labor Costs for Fire Alarm System including, but not limited to: equipment, devices, fire alarm cabling, associated j-hooks and raceways, testing, programming, services, warranties, removal of existing fire alarm devices/circuits, etc. Costs for 120V power for NAC panels, off-site monitoring services, and device rough-ins (backbox and conduit stub-up) shall not be included in this itemized value.

**High School Fire Alarm System Itemized Cost**

\$ \_\_\_\_\_ Base Bid Material and Labor Costs for Fire Alarm System including, but not limited to: equipment, devices, fire alarm cabling, associated j-hooks and raceways, testing, programming, services, warranties, removal of existing fire alarm devices/circuits, etc. Costs for 120V power for NAC panels, off-site monitoring services, and device rough-ins (backbox and conduit stub-up) shall not be included in this itemized value.

**High School Intercom System Itemized Cost**

\$ \_\_\_\_\_ Base Bid Material and Labor Costs for Intercom System including, but not limited to: equipment, speakers, call-in buttons, volume control switches, devices, cabling, associated j-hooks and raceways, zoning, testing, programming, services, warranties, removal of existing intercom devices/circuits, etc. Costs for 120V power for Intercom System and device rough-ins (backbox and conduit stub-up) shall not be included in this itemized value.

COMPLETION OF WORK

Undersigned guarantees, if awarded the contract, to complete the work in accordance with the scheduling and phasing requirements as set forth in Specifications Section 01 11 00 - Summary of Work-Single Contract.

DISCRIMINATION

The Contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the Contract.

LIST OF PROPOSED UNIT PRICES

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original Contract if accepted by the Governmental Unit. If the bid is to be awarded on a unit basis, the itemization of the units shall be shown on the Proposal Form.

Unit prices shall include the furnishing of all labor, materials, supplies, services, and include all items of cost, overhead and profit for the Contractor and any Subcontractor involved, and shall be used uniformly without modifications, for either additions or deductions for all work performed under the contract.

The Unit Prices as established in accordance with changes in the work, are as follows:

<u>NATURE OF WORK</u>	<u>MEASURE</u>	<u>UNIT OF UNIT PRICE</u>
1. Trench Rock Removal	Cubic Yard	\$ _____
2. Mass Rock Removal	Cubic Yard	\$ _____

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS (if applicable)

I, the undersigned bidder or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel products on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

NON-COLLUSION AFFIDAVIT

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

GENERAL CONTRACTOR CERTIFICATION

I hereby certify that we have obtained a complete set of construction documents, including all Drawings, Specifications and Addenda, and have reviewed the jobsite to sufficiently familiarize ourselves with the existing conditions.

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
(Name of Organization)

BY \_\_\_\_\_

\_\_\_\_\_  
(Title of Person Signing)

OATH AND AFFIRMATION

I hereby affirm under the penalties for perjury that the facts and information contained in the foregoing bid for public works are true and correct.

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
(Name of Organization)

BY \_\_\_\_\_

\_\_\_\_\_  
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

Before me, a Notary Public, personally appeared the above-named \_\_\_\_\_ and  
(Name of Person Signing)  
swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires: \_\_\_\_\_

County of Residence: \_\_\_\_\_

ACCEPTANCE

The above bid is accepted this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_,

subject to the following conditions: \_\_\_\_\_  
\_\_\_\_\_.

Contracting Authority Members:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

END OF SECTION 00 42 01

2.07 HARDWARE SCHEDULE

**Hardware Set #1a (Exterior, Pair, Access Control)** *Doors: 115a, B101a*

Continuous Hinge w/ electronic power transfer prep (each leaf)  
Electrified Rim Panic Device (each leaf)  
Surface Closer (each leaf)  
Heavy-Duty Floor Stop (each leaf)  
Threshold  
Weatherstripping (each leaf by 08 41 13)  
Door Bottom (each leaf by 08 41 13)  
Removeable Mullion  
Position Switch (each leaf)  
Access Control Credential Reader (by 01 21 13)  
Access Control Door Controllers (by 01 21 13)

**Hardware Set #1b (Exterior, Pair, Access Control)** *Door: B116A*

Continuous Hinge w/ electronic power transfer prep (each leaf)  
Electrified Rim Panic Device (each leaf)  
Surface Closer (each leaf)  
Heavy-Duty Floor Stop (each leaf)  
Threshold  
Weatherstripping (each leaf by 08 41 13)  
Door Bottom (each leaf by 08 41 13)  
Removeable Mullion  
Overhead Drip Guard  
Position Switch (each leaf)  
Access Control Credential Reader (by 01 21 13)  
Access Control Door Controllers (by 01 21 13)

**Hardware Set #2 (Exterior, Single, Access Control)** *Door: B101b*

Continuous Hinge w/ electronic power transfer prep  
Electrified Rim Panic Device  
Surface Closer  
Heavy-Duty Floor Stop  
Threshold  
Weatherstripping (by 08 41 13)  
Door Bottom (by 08 41 13)  
Overhead Drip Guard  
Position Switch  
Access Control Credential Reader (by 01 21 13)  
Access Control Door Controllers (by 01 21 13)

**Hardware Set #3a (Exterior, Single, Tornado Resistant, Access Control)** *Doors: 101a, 121a, 123a, 133*

Electric Continuous Hinge  
Electrified SVR Panic Device  
Surface Closer  
Threshold  
Weatherstripping  
Door Bottom  
Heavy Duty Floor Stop  
Position Switch  
Access Control Credential Reader (by 01 21 13)  
Access Control Door Controllers (by 01 21 13)

**Hardware Set #3b (Exterior, Single, Tornado Resistant, Access Control)** Door: B112

Electric Continuous Hinge  
Electrified SVR Panic Device  
Surface Closer  
Threshold  
Weatherstripping  
Door Bottom  
Heavy Duty Floor Stop  
Overhead Drip Guard  
Position Switch  
Access Control Credential Reader (by 01 21 13)  
Access Control Door Controllers (by 01 21 13)

**Hardware Set #4 (Exterior, Single, Tornado Resistant, Restroom)** Door: 122

Continuous Hinge  
3-point Lockset (Office/entry function w/ indicator)  
Surface Closer  
Threshold  
Weatherstripping  
Door Bottom  
Heavy Duty Floor Stop

**Hardware Set #5 (Interior, Pair, Fire-rated, Tornado Resistant)** Door: 115b

Continuous Hinge (each leaf)  
SVR Panic Device (Lever function) (each leaf)  
Surface Closer (each leaf)  
Threshold  
Fire/Smoke Seals (each leaf)  
Door Bottom (each leaf)  
Heavy Duty Floor Stop (each leaf)

**Hardware Set #6a (Interior, Pair, Fire-Rated, Tornado Resistant)** Door: B102

Continuous Hinge (each leaf)  
SVR Panic Device (Anti-Intruder function) (each leaf)  
Surface Closer (each leaf)  
Threshold  
Fire/Smoke Seals (each leaf)  
Door Bottom (each leaf)  
Heavy Duty Floor Stop (each leaf)

**Hardware Set #6b (Interior, Pair, Fire-rated, Tornado Resistant)** Door: B115

Continuous Hinge (each leaf)  
SVR Panic Device (Anti-Intruder function) (each leaf)  
Surface Closer (each leaf)  
Threshold  
Fire/Smoke Seals (each leaf)  
Door Bottom (each leaf)  
Heavy Duty Floor Stop (each leaf)  
Electromagnetic Door Holder (each leaf)

**Hardware Set #7 (Interior, Single, Fire-rated, Tornado Resistant)** Door: 114

Continuous Hinge  
SVR Panic Device (Lever function)  
Surface Closer  
Threshold  
Fire/Smoke Seals  
Door Bottom  
Heavy Duty Floor Stop

**Hardware Set #8 (Interior, Single, Tornado Shutter)** All tornado shutters, TS

Hinges  
3-Point Lockset (Exit function)  
Wall Stop

**Hardware Set #9 (Interior, Single, Misc.)** Doors: 106, 107, 125, 129, B105, B117

Hinges  
Lockset (Classroom function)  
Stop (Wall or Floor, as applicable)

**Hardware Set #10 (Interior, Single, RR)** Doors: 111, 112, 113, 126, B107, B108, B109, B110

Hinges  
Lockset (Privacy function)  
Surface Closer  
Wall Stop  
Kick Plate

**Hardware Set #11 (Interior, Single, Sound Control)** Doors: 104, 105, 117, 118, 119, 120, 127

Lockset (Classroom function)  
Stop (Wall or Floor, as applicable)  
\*All other hardware provided by Section 08 34 73.

**Hardware Set #12 (Interior, Single, Office)** Doors: 103, 124, B104

Hinges  
Lockset (Office function)  
Automatic Door Bottom  
Sound Seals  
Wall Stop

**Hardware Set #13 (Interior, Single, Breakout Rm)** Doors: B113, B114

Hinges  
Lockset (Classroom function)  
Stop (Wall or Floor, as applicable)

**Hardware Set #14 (Interior, Pair, Classroom)** Doors: 101b, 116

Hinges (each leaf)  
Rim Panic Device (Anti-Intruder function) (each leaf)  
Surface Closer (each leaf)  
Removeable Mullion  
Sound Seals  
Floor Stop (each leaf)

**Hardware Set #15 (Interior, Pair, Corridor)** Door: B116b

Hinges (each leaf)  
Rim Panic Device (Lever function) (each leaf)  
Surface Closer (each leaf)  
Removeable Mullion  
Electromagnetic Door Holder (each leaf)



**Hardware Set #16 (Interior, Single, Concessions) Door: 121b**

Hinges  
Lockset (Classroom function – Concessions 121 secure side of door)  
Surface Closer w/ Hold Open Arm  
Wall Stop

**Hardware Set #17 (Interior, Single, Vestibule) Door: 123b**

Hinges  
Push/Pull  
Surface Closer w/ Hold Open Arm  
Wall Stop

**Hardware Set #18 (Interior, Single, Sound Buffer) Doors: 109, 128**

Hinges  
Lockset (Classroom function)  
Surface Closer  
Sound Seals  
Wall Stop  
Kick Plate

**Hardware Set #19 (Interior, Single, Mechanical) Door: 130**

Hinges  
Lockset (Storeroom function)  
Surface Closer  
Sound Seals  
Floor Stop  
Kick Plate

**Hardware Set #20 (Interior, Single, Utility) Doors: 110, 134, B106, B111**

Hinges  
Lockset (Storeroom function)  
Surface Closer  
Wall Stop  
Kick Plate

**Hardware Set #21 (Interior, Pair, Mechanical) Door: 108**

Hinges (each leaf)  
Lockset (Storeroom function) (active leaf)  
Surface Closer (active leaf)  
Flush bolts / dustproof strike (inactive leaf)  
Sound Seals  
Floor Stop (each leaf)  
Kick Plate (each leaf)

**Hardware Set #22 (Interior, Pair, Utility) Door: 102**

Hinges (each leaf)  
Lockset (Storeroom function) (active leaf)  
Surface Closer (active leaf)  
Flush bolts / dustproof strike (inactive leaf)  
Floor Stop (each leaf)  
Kick Plate (each leaf)

**Hardware Set #23 (Interior, Pair, Storage)** Doors: 131, 132

Hinges (each leaf)  
Lockset (Classroom function) (active leaf)  
Flush bolts / dustproof strike (inactive leaf)  
Wall Stop (each leaf)  
Kick Plate (each leaf)

**Hardware Set #24 (Insulated Rolling Door)** Doors: IRD1, IRD2

Cylinder @ Door

**Hardware Set #25 Tornado Rolling Door)** Doors: TRD1, TRD2

Cylinder @ Key Switch for Motor

## ADDENDUM # 1 - MEP

**Date:** 04/09/2021

**Project Name:** 2021 Salem MS/HS FEMA Safe Room Addition

**STW Project No.:** 20108/20109

This addendum supersedes and supplements all portions of Volumes 1 and 2 of the Construction Documents with which it conflicts. Acknowledgement of this Addendum shall be noted on the Form of Proposal.

Addendum #1 makes the following modifications and clarifications to Volumes 1 and 2 of the Construction Drawings and the project Specifications.

### **VOLUME 2 FIRE PROTECTION DRAWINGS**

Item 1: Refer to Volume 2 Sheet FP101.

- A. General Note B shall be revised to read as follows:  
EXISTING SPRINKLER SYSTEM SHALL BE EXTENDED TO COVER NEW ADDITION AREAS. FIRE-SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED FIELD VERIFICATION TO DETERMINE APPROPRIATE LOCATIONS TO TIE INTO THE EXISTING SYSTEM. EXISTING SYSTEM HAS THREE SPRINKLER ZONES/ALARM VALVES.

### **VOLUME 1 PLUMBING DRAWINGS:**

Item 2: Refer to Volume 1 Sheet U101

- A. Omit keynote 2.
- B. Revise keynote 6 to read as follows:  
CONNECT NEW 6" FIRE PROTECTION PIPING TO EXISTING WATER MAIN. COORDINATE REQUIRED SCOPE WITH SALEM WATER COMPANY. PROVIDE ALL REQUIRED FITTINGS AND OTHER PIPING COMPONENTS TO MEET SALEM WATER COMPANY REQUIREMENTS. FIELD VERIFY APPROPRIATE CONNECTION LOCATION PRIOR TO INSTALLATION. REFER TO CIVIL DRAWINGS FOR ADDITIONAL DETAILS.
- C. Change keynotes adjacent to 6" sanitary and 8" storm piping from number 6 to number 11.
- D. Add keynote 11, to read as follows:  
ROUTE NEW SANITARY AND STORM PIPING TO SANITARY / STORM MAINS IN HARRISON ST AND CONNECT. COORDINATE REQUIRED SCOPE WITH SALEM SEWER DISTRICT. PROVIDE ALL REQUIRED FITTINGS AND OTHER PIPING COMPONENTS TO MEET SALEM SEWER DISTRICT REQUIREMENTS. FIELD VERIFY APPROPRIATE CONNECTION LOCATION PRIOR TO INSTALLATION. COORDINATE REQUIRED PIPING SLOPE/INVERT WITH SITE GRADING IN THIS AREA AND INVERT OF SANITARY / STORM MAINS. REFER TO CIVIL DRAWINGS FOR ADDITIONAL DETAILS.

Item 3: Refer to Volume 1 Sheet P001

A. Revise General Note 5 to read as follows:

CONTACT B.U.D.: THE EXISTING UTILITIES, EQUIPMENT, AND PIPING SHOWN ON THESE DRAWINGS ARE FROM RECORD DRAWINGS AND VISUAL INSPECTION OF THE SITE. THE NUMBER, LOCATION, SIZE, AND TYPE OF UTILITIES SHOWN ARE APPROXIMATE, AND THERE MAY BE OTHER UTILITIES NOT SHOWN. THE CONTRACTOR SHALL CONTACT ALL AFFECTED UTILITY COMPANIES AND INDIANA B.U.D. PRIOR TO BEGINNING EXCAVATION.

B. Add the following general note:

ACOUSTIC TREATMENT: WALL PENETRATIONS OF BAND, CHOIR, ENSEMBLE, PRACTICE, RECORDING, KEYBOARD LAB, UTILITY, AND MECHANICAL EQUIPMENT ROOM WALLS SHALL BE SEALED WITH ACOUSTIC CAULK. ALL NEW ITEMS SHALL BE INSTALLED INDEPENDENT OF THESE WALLS. WHERE EQUIPMENT IS REQUIRED TO BE WALL MOUNTED OR PENETRATE THE WALL, SEAL WITH ACOUSTIC CAULK. COORDINATE EXACT REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION OF ANY ITEMS ON THESE WALLS. CONTRACTOR SHALL COORDINATE ALL WALL MOUNTED DEVICES WITH ACOUSTIC WALL PANELS. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH ACOUSTICAL ENGINEER. WHERE CONFLICTS EXIST, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH ACOUSTICAL METAL CEILING PANS AND NIGH NRC CEILING TILES. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS. NO MEP ITEMS SHALL BE MOUNTED IN THESE ACOUSTICAL PANS OR TILES.

Item 4: Refer to Volume 1 Sheet P101.

A. Revise keynote 1 to read as follows:

SANITARY / STORM PIPING ROUTED OUT TO SITE. REFER TO SHEET U101 FOR CONTINUATION.

Item 5: Refer to Volume 1 Sheet P201.

A. Revise keynote 3 to read as follows:

a. INSTALL TRAP PRIMER ON WALL IN AN ACCESSIBLE LOCATION. PROVIDE DISTRIBUTION UNIT WITH THE QUANTITY OF OUTLETS INDICATED ON THIS PLAN. ROUTE TRAP PRIMER OUTLET LINES EXPOSED ON WALL IN UTILITY ROOM TO BELOW SLAB. LINES ARE TO BE COPPER AND LABELED PER THE SPECIFICATIONS.

B. Omit keynote 5.

Item 6: Refer to Volume 1 Sheet P601.

A. Refer to PLUMBING FIXTURE SCHEDULE: Omit "Oasis" as an acceptable manufacturer for EWC1A.

## VOLUME 2 PLUMBING DRAWINGS

Item 7: Refer to attached revised Volume 2 Sheet U101.

- B. Storm Drain Piping:
  - a. Scope has been added to connect to existing 10" storm drain leaving Classroom 102.
  - b. Storm drain main has been upsized to 12".
- C. Sanitary Piping: cleanouts have been added.
- D. Water/Fire Protection Piping Mains: thrust blocks have been added (detail added on this sheet).
- E. Additional keynote revisions.

Item 8: Refer to Volume 2 Sheet P001.

- C. Omit HEAD PLACEMENT IN ACOUSTICAL TILE detail.
- D. Revise General Note 5 to read as follows:  
CONTACT B.U.D.: THE EXISTING UTILITIES, EQUIPMENT, AND PIPING SHOWN ON THESE DRAWINGS ARE FROM RECORD DRAWINGS AND VISUAL INSPECTION OF THE SITE. THE NUMBER, LOCATION, SIZE, AND TYPE OF UTILITIES SHOWN ARE APPROXIMATE, AND THERE MAY BE OTHER UTILITIES NOT SHOWN. THE CONTRACTOR SHALL CONTACT ALL AFFECTED UTILITY COMPANIES AND INDIANA B.U.D. PRIOR TO BEGINNING EXCAVATION.
- E. Omit GENERAL NOTES – STORM SHELTER notes 9 – 20. Add the following note:  
COORDINATE THE INSTALLATION OF ALL ITEMS INSTALLED WITHIN, PENETRATING THROUGH, OR ATTACHED TO THE EXTERIOR AND INTERIOR OF THE STORM SHELTER PERIMETER WITH ALL TRADES.

Item 9: Refer to Volume 2 Sheet P201.

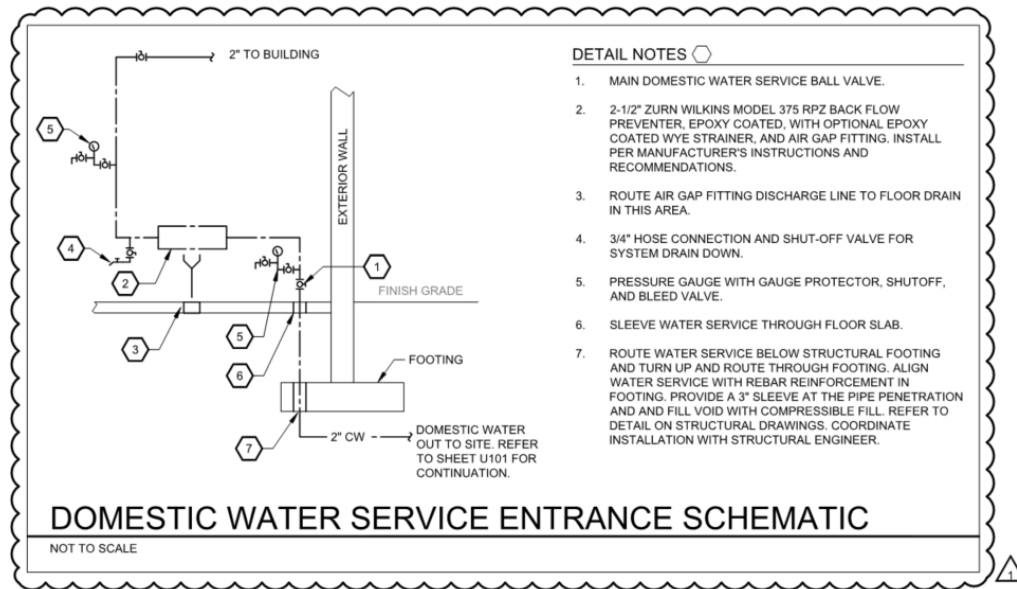
- C. Refer to ADA Restroom 4 B108: provide one (1) HB1 hose bibb mounted on plan south wall adjacent to L1A fixture. Hose bibb to be mounted at 18" AFF and connected to a 1/2" cold water line connected to the 1" cold water line routed in the plumbing chase adjacent to this room. Refer to attached revision sketch P502A for location.
- D. Keynote number 3 shall be revised to read as follows:
  - a. INSTALL TRAP PRIMER ON WALL IN AN ACCESSIBLE LOCATION. PROVIDE DISTRIBUTION UNIT WITH THE QUANTITY OF OUTLETS INDICATED ON THIS PLAN. ROUTE TRAP PRIMER OUTLET LINES EXPOSED ON WALL IN UTILITY ROOM TO BELOW SLAB. LINES ARE TO BE COPPER AND LABELED PER THE SPECIFICATIONS.
  - b. Note shall be applicable to TP1 in Custodian B111.
- E. Refer to keynote number 9: FPWH is to be provided with a 3/4" cold water line.

Item 10: Refer to Volume 2 Sheet P501.

- B. Refer to PUMP SCHEDULE: revise pump schedule as follows:

PUMP SCHEDULE											
MARK	MANUFACTURER	MODEL	LOCATION	FLOW (GPM)	HEAD (FT)	RPM	CONNECTIONS		ELECTRICAL		REMARKS
							INLET	OUTLET	HP	V / Ø / Hz	
RP-01	TACO	0011-SF4	CUSTODIAN B111	5	12	3250	3/4"	3/4"	FRACT.	115/1/60	ALL
REMARKS: 1. STAINLESS STEEL CASING WITH STAINLESS STEEL CARTRIDGE. 2. 100% LEAD FREE. 3. INSTALL WITH SHAFT IN A HORIZONTAL POSITION. OTHER ACCEPTABLE MANUFACTURERS INCLUDE: WILO, B&G, GRUNDFOS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.											

- C. Refer to PLUMBING FIXTURE SCHEDULE: Omit "Oasis" as an acceptable manufacturer for EWC1A.
- D. Refer to DOMESTIC WATER SERVICE ENTRANCE SCHEMATIC.
  - a. Revise schematic as follows:



- b. Item 11: Refer to attached revision sketch P502A (applicable to Volume 2 only)
  - A. Add one (1) HB1 fixture in ADA Restroom 4 B108 as indicated on this sketch. Provide with a 1/2" cold water line. Install at 18" AFF adjacent to L1A fixture.
  - B. Install plaster trap for S1A sink in Prep Area B103.

**MECHANICAL SPECIFICATIONS**

- Item 12: Refer to specification section 23 05 48.
  - A. Section 2.1 ACCEPTABLE MANUFACTURERS shall include VMC Group.
- Item 13: Refer to specification section 23 21 13.33.
  - A. Section 3.4 VERTICAL PIPING INSTALLATION
    - a. Revise section E to read as follows:  
The bores shall be backfilled by hand with thermally enhanced grout suitable for use in geothermal well applications and the top 25 feet of the bore holes shall be capped

with Bentonite with thermal conductivity greater than 1.07 Btuh/h x sq ft x deg F per ASTM D 5334 and permeability no greater than 1 nm/s per ASTM D 5084. Backfilling shall be done in a manner to ensure pipe contact, and shall not contain large, sharp, or jagged rocks or debris. Extreme care must be taken to ensure NO bridging of the backfill within the bore holes and that backfilling does not crush, cut, or kink the pipe

Item 14: Refer to specification section 23 31 13.

A. Add the following section:

2.4 DRYER VENT / VACUUM DUCTWORK

- A. All metal duct with joints secured with foil tape only.
- B. No screws through the duct allowed, including at mounting brackets.
- C. Maximum length of dryer vent to be 35 feet per 2015 IMC 504.8.1, or as specified in the dryer manufacturer's installation instructions. Mechanical contractor shall be responsible for making the manufacturer's installation instructions available to on-site mechanical code inspectors in the event a dryer duct greater than 35 feet is installed where allowable by the dryer manufacturer's instructions:
- D. 4" 90-degree elbows = 5'-0" equivalent
- E. 4" 45-degree elbows = 2'-6" equivalent

## VOLUME 1 MECHANICAL DRAWINGS

Item 15: Refer to Volume 1 Sheet U201

A. General Note A shall be revised to read as follows:

ALL GEOTHERMAL PIPING INSTALLED UNDER THIS PROJECT SHALL BE SURVEYED BY A LAND SURVEYOR LICENSED IN THE STATE OF INDIANA. THE SURVEY RESULTS SHALL BE PROVIDED TO THE ENGINEER AND OWNER. ALL VERTICAL BORES SHALL BE LOCATED WITH A GPS LOCATOR. ALL GPS LOCATIONS SHALL BE INCLUDED ON THE RECORD DRAWINGS.

B. Add the following general notes:

G. GRADING: GEOTHERMAL CONTRACTOR SHALL BE REQUIRED TO BE FAMILIAR WITH THE SITE, INCLUDING GRADING CONDITIONS, PRIOR TO BID. GEOTHERMAL WELL LOCATIONS SHALL BE COORDINATE WITH THE SITE GRADING TO ENSURE ALL WELLS CAN PROPERLY BE DRILLED. GEOTHERMAL CONTRACTOR SHALL INCLUDE ALL REQUIRED RIGGING AND OTHER PROVISIONS REQUIRED TO DRILL IN THE LOCATION INDICATED ON THIS PLAN IN THEIR BID. ALL REQUESTS TO REVISE DRILLING LOCATIONS SHALL BE MADE TO THE ENGINEER PRIOR TO STARTING WORK. GEOTHERMAL BID SHALL INCLUDE ALL REQUIRED PIPE FITTINGS TO ACCOMMODATE SITE GRADING. REFER TO CIVIL DRAWINGS FOR GRADING DETAILS.

H. PROPERTY LINES: GEOTHERMAL CONTRACTOR SHALL COORDINATE DRILLING LOCATIONS WITH PROPERTY LINES AND ALL REQUIRED PROPERTY OFFSETS PRIOR TO BID.

- C. Refer to site plan: All geothermal circuit (horizontal/lateral) piping is to be 3" in lieu of 2-1/2" piping shown on plan unless otherwise noted on TYPICAL GEOTHERMAL CIRCUIT PIPING DIAGRAM. No changes shall be required to GEOTHERMAL HEADER PIPING DIAGRAM.

Item 16: Refer to Volume 1 Sheet M001.

- A. General Note 6 shall be revised to read as follows:  
REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR COMPLETION AND OPERATION OF A FULLY FUNCTIONAL MECHANICAL SYSTEM AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE INDIANA BUILDING CODE, ASHRAE, IMC, IECC, SMACNA, AND NFPA.
- B. General Note 33 shall be revised as follows:  
PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS OF ALL HYDRONIC AND GEOTHERMAL PIPING. AUTOMATIC AIR VENTS SHALL BE INSTALLED WHERE INDICATED IN THE CONTRACT DOCUMENTS AND/OR AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
- C. Add the following general note:  
ACOUSTIC TREATMENT: WALL PENETRATIONS OF BAND, CHOIR, ENSEMBLE, PRACTICE, RECORDING, KEYBOARD LAB, UTILITY, AND MECHANICAL EQUIPMENT ROOM WALLS SHALL BE SEALED WITH ACOUSTIC CAULK. ALL NEW ITEMS SHALL BE INSTALLED INDEPENDENT OF THESE WALLS. WHERE EQUIPMENT IS REQUIRED TO BE WALL MOUNTED OR PENETRATE THE WALL, SEAL WITH ACOUSTIC CAULK. COORDINATE EXACT REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION OF ANY ITEMS ON THESE WALLS. CONTRACTOR SHALL COORDINATE ALL WALL MOUNTED DEVICES WITH ACOUSTIC WALL PANELS. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE WITH ACOUSTICAL ENGINEER. WHERE CONFLICTS EXIST, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH ACOUSTICAL METAL CEILING PANS AND HIGH NRC CEILING TILES. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS. NO MEP ITEMS SHALL BE MOUNTED IN THESE ACOUSTICAL PANS OR TILES.

Item 17: Refer to Volume 1 Sheet M101.

- A. Add the following General Notes:
  - F. OPEN/CLOUD CEILING AREAS: SPECIAL COORDINATION SHALL BE REQUIRED TO ENSURE ALL DUCTWORK INSTALLED IN OPEN / CLOUD CEILING AREAS IS INSTALLED IN AN ORDERLY FASHION. MECHANICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL REFLECTED CEILING PLANS AND COORDINATE THE INSTALLATION OF DUCTWORK IN THESE AREAS WITH THE ENGINEER AND ARCHITECT. WHERE POSSIBLE, SUPPLY, RETURN, AND OUTSIDE AIR DUCT RUNS SHALL ROUTE PERPENDICULAR WITH STRAIGHT RUNS OF DUCT (I.E. NO ELBOWS, TAKE-OFFS, ETC.) BETWEEN CEILING CLOUDS TO MINIMIZE VISIBILITY FROM THE FLOOR LEVEL. THE OPEN END OF EXHAUST / RETURN DUCTS IN THESE AREAS SHALL NOT BE VISIBLE FROM THE FLOOR LEVEL. ALL FLEXIBLE DUCTWORK IN THESE AREAS SHALL BE INSTALLED IN A WAY SUCH THAT IT IS NOT VISIBLE FROM THE GROUND LEVEL. IN LOCATIONS



WHERE THIS REQUIREMENT CANNOT BE MET, AIR DEVICES ARE REQUIRED TO BE HARD DUCTED. PROVIDE ALL REQUIRED OFFSETS TO ACCOMMODATE THE ELEVATION OF ALL CEILING CLOUDS.

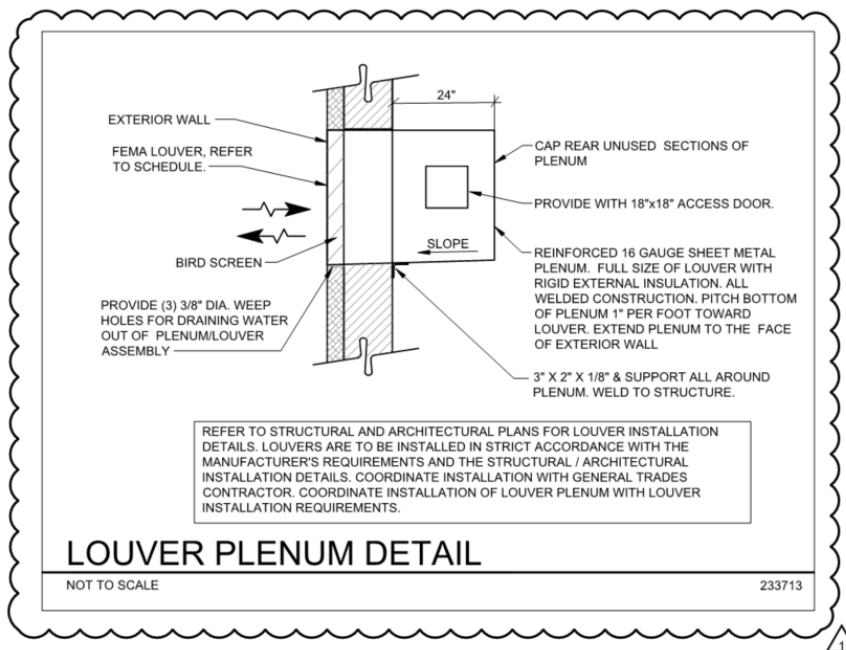
G. COORDINATE FINAL THERMOSTAT LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. THERMOSTAT SHALL BE MOUNTED AT 48" AFF. IN LOCATIONS WHERE THERMOSTATS ARE TO BE INSTALLED ADJACENT TO LIGHTING CONTROLS OR OTHER ELECTRICAL DEVICES, ENSURE THERMOSTAT ROUGH-IN IS HORIZONTALLY ALIGNED WITH OTHER DEVICE ROUGH-IN(S).

Item 18: Refer to attached revision sketch M101A (applicable to Volume 1 only).

- A. ERV-1 and ERV-2 orientation and duct connections shall be revised as indicated on this sheet.
- B. Keynote 20 shall be revised as indicated on this sketch.
- C. Keynote 24 shall be added as indicated on this sketch.

Item 19: Refer to Volume 1 Sheet M501.

- A. Add the following detail:



D. Omit VERTICAL ENERGY RECOVERY VENTILATOR DETAIL (ERV-1, 2)

E. Refer to DIFFERENTIAL PRESSURE TRANSDUCER DETAIL:

- a. Note identifying differential pressure device shall be revised to read as follows:  
VERIS PWLX04S DIFFERENTIAL PRESSURE TRANSDUCER PROVIDED BY TCC. REFER TO PLANS FOR LOCATION.

## VOLUME 2 MECHANICAL DRAWINGS

Item 20: Refer to Volume 2 Sheet U201.

- A. General Note A shall be revised to read as follows:  
ALL GEOTHERMAL PIPING INSTALLED UNDER THIS PROJECT SHALL BE SURVEYED BY A LAND SURVEYOR LICENSED IN THE STATE OF INDIANA. THE SURVEY RESULTS SHALL BE PROVIDED TO THE ENGINEER AND OWNER. ALL VERTICAL BORES SHALL BE LOCATED WITH A GPS LOCATOR. ALL GPS LOCATIONS SHALL BE INCLUDED ON THE RECORD DRAWINGS.

Item 21: Refer to Volume 2 Sheet M001.

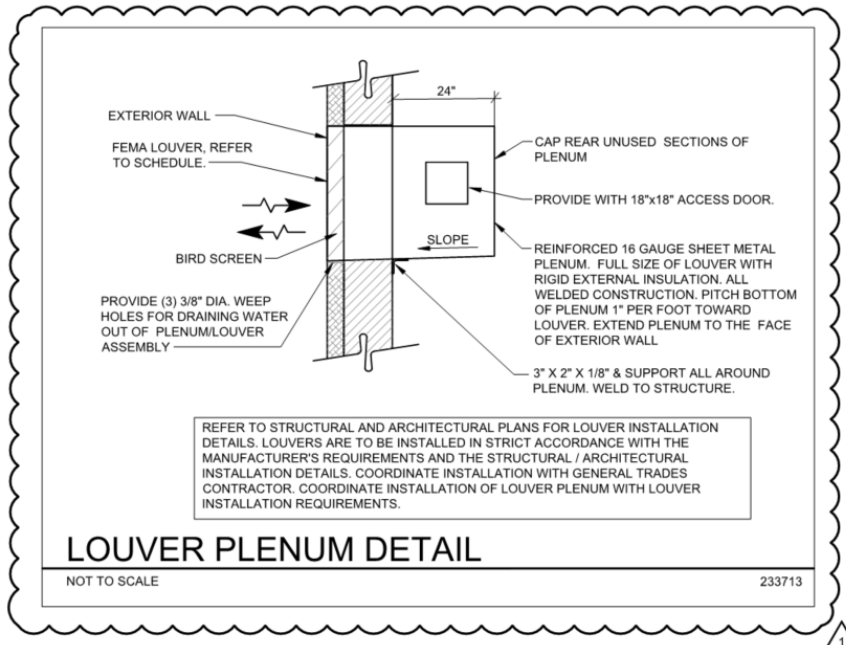
- D. General Note 6 shall be revised to read as follows:  
REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR COMPLETION AND OPERATION OF A FULLY FUNCTIONAL MECHANICAL SYSTEM AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE INDIANA BUILDING CODE, ASHRAE, IMC, IECC, SMACNA, AND NFPA.
- E. General Note 33 shall be revised as follows:  
PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS OF ALL HYDRONIC AND GEOTHERMAL PIPING. AUTOMATIC AIR VENTS SHALL BE INSTALLED WHERE INDICATED IN THE CONTRACT DOCUMENTS AND/OR AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

Item 22: Refer to Volume 2 Sheet M101.

- B. Add the following General Note:  
OPEN/CLOUD CEILING AREAS: SPECIAL COORDINATION SHALL BE REQUIRED TO ENSURE ALL DUCTWORK INSTALLED IN OPEN / CLOUD CEILING AREAS IS INSTALLED IN AN ORDERLY FASHION. MECHANICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL REFLECTED CEILING PLANS AND COORDINATE THE INSTALLATION OF DUCTWORK IN THESE AREAS WITH THE ENGINEER AND ARCHITECT. WHERE POSSIBLE, SUPPLY, RETURN, AND OUTSIDE AIR DUCT RUNS SHALL ROUTE PERPENDICULAR WITH STRAIGHT RUNS OF DUCT (I.E. NO ELBOWS, TAKE-OFFS, ETC.) BETWEEN CEILING CLOUDS TO MINIMIZE VISIBILITY FROM THE FLOOR LEVEL. THE OPEN END OF EXHAUST / RETURN DUCTS IN THESE AREAS SHALL NOT BE VISIBLE FROM THE FLOOR LEVEL. ALL FLEXIBLE DUCTWORK IN THESE AREAS SHALL BE INSTALLED IN A WAY SUCH THAT IT IS NOT VISIBLE FROM THE GROUND LEVEL. IN LOCATIONS WHERE THIS REQUIREMENT CANNOT BE MET, AIR DEVICES ARE REQUIRED TO BE HARD DUCTED. PROVIDE ALL REQUIRED OFFSETS TO ACCOMMODATE THE ELEVATION OF ALL CEILING CLOUDS.
- C. Refer to Demolition Keynote 2 to read as follows:  
REMOVE EXISTING VACUUM CONNECTION IN WALL PRIOR TO WALL DEMOLITION. VACUUM CONNECTION TO BE REUSED, REFER TO NEW WORK SCOPE. DEMOLISH EXISTING ABOVE-CEILING VACUUM DUCT AS REQUIRED TO ACCOMMODATE RELOCATION. TEMPORARILY CAP OPEN END OF DUCT AFTER DEMOLITION.
- D. Omit New Work Keynote 10.

Item 23: Refer to Volume 2 Sheet M501.

A. Add the following detail:



Item 24: Refer to Volume 2 Sheet M502.

A. Refer to GEOTHERMAL LOOP PIPING SCHEMATIC:

- a. All GS / GR piping routed from the geothermal header to the geothermal well field circuits is to be 2". Header is to be 3" as indicated on sheet U201.

B. Refer to DIFFERENTIAL PRESSURE TRANSDUCER DETAIL:

- a. Note identifying differential pressure device shall be revised to read as follows:
- b. VERIS PWLX04S DIFFERENTIAL PRESSURE TRANSDUCER PROVIDED BY TCC. REFER TO PLANS FOR LOCATION.

## ELECTRICAL SPECIFICATIONS

Item 25: Refer to Specification Section 26 05 00 – General Requirements.

- A. Provide Permanent plaque or directory at New and at Each Existing Electrical Service Disconnect denoting all other services, feeders, and branch circuits supplying the building or structure and the area served by each per NEC 230.2 (E).

## VOLUME 1 ELECTRICAL DRAWINGS

Item 26: Refer to Volume 1 Sheet E001.

- F. Refer to Combination Floor Box Symbol. Refer to floor plans for quantity and types of devices and rough-ins as well as requirements for conduits and cabling.

Item 27: Refer to Volume 1 Sheet E002.

- A. Refer to Site Utilities note #7: Refer Project Front-end Specifications and Specification Section 26 05 00 – General Requirements for additional requirements.
- B. Refer to Storm Shelter note #13: Omit coordinated with Pre-cast Manufacturer. Contractor shall coordinate depth of boxes with Structural Engineer and ArchitectRefer to Audio/Visual Technology General Notes.
  - a. The contractor shall refer to sheet T100, T200, and architectural elevations for additional requirements and details.
- C. Add Roof General Notes.
  - a. Owner has a maintenance contract for the existing roof with insulated roofing contractors in New Albany, IN. (812) 206-7000. General contractor shall hire this subcontractor and cover all costs to perform all work required to existing roof due to new construction.
  - b. Refer to Sheet A301 – Roof Plan for additional requirements.

Item 28: Refer to Volume 1 Sheet E101.

- D. Refer to Vestibule 123.
  - a. Provide Type B2 – 2'x2' Recessed LED flat panel fixture in lieu of Type A – 2'x4' Recessed LED flat panel.
- E. Refer to Concessions 121.
  - a. Provide Type B2 – 2'x2' Recessed LED flat panel fixtures in lieu of Type A – 2'x4' Recessed led flat panels.
- F. Refer to hallway outside of Concessions 121: Omit Exit Sign "X1".

Item 29: Refer to Volume 1 Sheet E201.

- G. Refer to Loading 133.
  - a. Refer to attached sketch E201A.
    - i. Provide power and field wiring for new motorized coiling door.
    - ii. Provide #10 conductors and #10 ground in 3/4" conduit from 25A/1P breaker in Panel SA circuit #4 for power connection.
    - iii. Provide rough-in and associated controls, devices, etc. for motorized coiling door controls.
    - iv. Coordinate the final locations and all requirements with the manufacturer and architect.
- H. Refer to Volume 1 Concessions 121.
  - a. Refer to attached sketch E201A.

- i. Provide power and field wiring for new motorized coiling door.
      - ii. Provide #10 conductors and #10 ground in 3/4" conduit from 25A/1P breaker in Panel SB circuit #3 for power connection.
      - iii. Provide rough-in and associated controls, devices, etc. for motorized coiling door controls.
      - iv. Coordinate the final locations and all requirements with the manufacturer and architect.
    - b. GFI device "GB" for the refrigerator shall be mounted above countertop.
    - c. Provide standard duplex receptacle for ice machine in lieu of GFI receptacle and provide GFI device "GB" at an accessible location.
    - d. Provide standard duplex receptacle for the beverage cooler in lieu of GFI receptacle and provide GFI device "GB" for ice machine at accessible location.
  - I. Refer to Custodial 110.
    - a. Provide a double tub 84 pole panel in lieu of a single tub 60 pole panel for Panel SB.
  - J. Refer to Wardrobe 107.
    - a. Refer to attached sketch E201A.
      - i. Receptacles shall be located on north wall in lieu of west and south walls to avoid painted wood casework. (Quantity 3).
  - K. Refer to Uniforms 131.
    - a. GFI device "GB" shall be mounted at 48" AFF.
  - L. Refer to Restroom 122 and 126.
    - a. Receptacle shall be mounted at 36" AFF.
  - M. Refer to note #19: coordinate NEMA receptacle configuration with architect.
  - N. Refer to note #31: coordinate NEMA receptacle configuration with architect.
  - O. Refer to note #14. Refer to grounding detail for all requirements. Provide connections on utility and house side as required.

Item 30: Refer to Volume 1 Sheet E203.

- A. Refer to Sheet Note 17.
  - a. Refer to roof general notes for additional requirements.

Item 31: Refer to Volume 1 Sheet E301.

- A. Refer to Choir 101.
  - a. Refer to Band Room 116 and Choir 101
    - i. Refer to attached sketches E301A and E301B for updated A/V equipment layouts and requirements.
    - ii. In addition to the conduits for audio and video connections, provide a 3/4" conduit for power to Type "D" Floor Boxes.
  - b. Refer to Keyboard Lab 128:
    - i. Contractor shall refer to Technology Equipment Schedule T100 and T200 for conduits and added details for Type "B" Floor Boxes.
    - ii. Provide Two 1-1/2" Conduits and Two 3/4" to Type "B" Floor Boxes.

- iii. Provide One 1-1/4" Conduits and Two 3/4 to Type "A" Floor Boxes.
- iv. Provide One 1-1/4" Conduits and Two 3/4 to Type "C" Floor Box.
- B. Refer to Wardrobe 107.
  - a. Refer to revised sketch E301B.
    - i. Future Data rough-in shall be located on north wall in lieu of east wall to avoid painted wood casework. Install adjacent to revised receptacle locations (Quantity 1).
    - ii. Omit two future data rough-ins on south wall.
- C. Refer to mechanical room 130. Provide wall mounted intercom speaker on east wall.
- D. Refer to concessions 121. Clarification: Install 2D data outlet above countertop on west wall (along south wall).

Item 32: Refer to Volume 1 Sheet E501

- A. Refer to revised sheet for updates to light fixture schedule and lighting controls details.

Item 33: Refer to Volume 1 Sheet E502

- A. Refer to attached sketch E502A for updates to exterior lighting control diagram – "LCC-EXT".

Item 34: Refer to Volume 1 Sheet E504

- A. Refer to STEAM Room Projector Detail.
  - a. Receptacle and J-box shall be mounted flush to ceiling.
  - b. Projector shall be contractor installed. Provide mounting hardware as required.
- B. Omit Utility Pit Pad Detail.

Item 35: Refer to Volume 1 Sheet E601.

- A. Refer to New Riser Diagram.
  - a. Provide a double tub 84 pole panel in lieu of a single tub 60 pole panel for Panel SB.
- B. Omit note #3. Existing Primary to remain.
- C. Clarification to power one-line note #5:
  - a. Provide with 35" of Circuit Breaker Mounting Space.
  - b. All Feeder circuit breakers shown shall be electronic Trip with adjustable settings in lieu of branch circuit breakers.
  - c. Provide mounting enclosure and wiring as required for digital meter.

Item 36: Refer to Volume 1 Sheet E602.

- A. Refer to Panelboard Schedule for Panel ENSA.
  - a. Provide a 30A/3P breaker for a surge protection device.
- B. Refer to Panelboard Schedule for Panel ENSB.
  - a. Provide a 30A/3P breaker for a surge protection device.
- C. Refer to Panelboard Schedule for Panel SA.
  - a. Provide a 30A/3P breaker for a surge protection device.

- b. Provide a 25A/1P breaker for a motorized coiling door in Loading 133.
- c. Provide with 42,000 AIC rating.
- D. Refer to Panelboard Schedule for Panel SB.
  - a. Provide panelboard with 84-poles in lieu of 60 poles.
  - b. Provide a 30A/3P breaker for a surge protection device.
  - c. Provide a 25A/1P breaker for a motorized coiling door in Concessions 121.
  - d. Provide with 42,000 AIC rating.
- E. Refer to Schedule for INV
  - a. Equipment to be pad mounted in lieu of flush.
  - b. Provide with 42,000 AIC rating.

Item 37: Refer to Volume 1 Sheet U301.

- A. Clarification to note #10: Provide 10' rod and install 24" below grade to top of rod.
- B. Refer to note #12: Omit utility coordination requirement.
- C. Replace note #20 with the following: "Provide underground grounding electrode conductor from new Bus Bar. Refer to grounding detail for additional requirements."
- D. Omit note #21. Existing Primary to remain.
- E. Refer to note #23: Existing meters to be re-used by utility company. Omit new meters and meter bases.
- F. Omit note #24. Existing concrete pad to remain. Re-work as required for new secondary work.
- G. Omit note #26. Secondary bus bar is not required by the utility company.

## **VOLUME 2 ELECTRICAL DRAWINGS**

Item 38: Refer to Volume 2 Sheet E001.

- A. Refer to Combination Floor Box Symbol. Refer to floor plans for quantity and types of devices and rough-ins as well as requirements for conduits and cabling.

Item 39: Refer to Volume 2 Sheet E002.

- A. Refer to Site Utilities note #7: Refer Project Front-end Specifications and Specification Section 26 05 00 – General Requirements for additional requirements.
- B. Refer to Storm Shelter note #13: Omit coordinated with Pre-cast Manufacturer. Contractor shall coordinate depth of boxes with Structural Engineer and Architect.
- C. Contractor shall coordinate roof penetration scope with architect, general contractor, and roofing contractor as required to maintain existing roof warranty.

Item 40: Refer to Volume 2 Sheet E101

- A. Refer to revised lighting control details and diagrams included in this addendum.
- B. Replace note #8 with the following: "PROVIDE NEW LIGHT SWITCHES FOR REPLACEMENT LIGHT FIXTURES IN THIS AREA. INTERCEPT EXISTING CIRCUIT AS NECESSARY TO MAINTAIN EXISTING LIGHTING CONTROL FUNCTIONS. PROVIDE THREE-WAY SWITCHING AS REQUIRED."

FIELD VERIFY EXACT WIRING CONDITIONS PRIOR TO DEMOLITION. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.”

- C. Replace note #12 with the following: “PROVIDE REPLACEMENT LIGHT SWITCH CONTROLLING EXISTING FIXTURES IN THIS AREA. INTERCEPT EXISTING CIRCUIT AS NECESSARY TO MAINTAIN EXISTING LIGHTING CONTROL FUNCTIONS. PROVIDE THRE-WAY SWITCHING AS REQUIRED. FIELD VERIFY EXACT WIRING CONDITIONS PRIOR TO DEMOLITION. REFER TO DEMOLITION PLAN FOR ADDITIONAL REQUIREMENTS.”
- D. Refer to STEAM Instruction B102
  - a. Omit wall mounted exit sign type X1 above multi-media table.
  - b. Omit ceiling mounted exit sign X3 above maker table seating area.

Item 41: Refer to Volume 2 Sheet E201

- A. Refer to note #26. Provide 3/4" conduit below.
- B. Receptacles in Restrooms 1, 2, 3, and 4 shall be mounted at 36" AFF.
- C. Refer to Storage B105. Provide 120V, 20A circuit for convenience duplex receptacles from panel SA.
- D. Refer to note #13. Refer to grounding detail for all requirements. Provide connections on utility and house side as required.
- E. Refer to note #30. Clarification Cord Reel shall be installed above cloud ceiling plane and in between clouds in lieu of being concealed. Refer to detail for additional requirements.
- F. Refer to Enlarged Utility Room
  - a. GFI, Duplex receptacle on north wall adjacent to T-S shall be fed from circuit SA-52.

Item 42: Refer to Volume 2 Sheet E202

- A. Refer to note #3: Clock Head-end is located on second floor. This is an approximate location.
- B. Clarification to note #15: This is a diagrammatic path for the underground feeder. Contractor shall coordinate best routing in field and with all trades.

Item 43: Refer to Volume 2 Sheet E301

- A. Refer to note #23. Provide two 3/4" conduits and one 1-1/4" conduit to floor box.
- B. Refer to note #20. Provide one 1-1/4" conduit below grade.

Item 44: Refer to Volume 2 Sheet E501

- A. Refer to revised sheet for updates to light fixture schedule and lighting controls details.

Item 45: Refer to Volume 2 Sheet E502

- A. Refer to attached sketch E502A for updates to exterior lighting control diagram – “LCC-EXT”.

Item 46: Refer to Volume 2 Sheet E504

- C. Refer to Typical STEAM Room Audio/Visual System Detail and Display wall Elevation.
  - a. Flat Panel supplied by owner shall be contractor installed. Provide mounting hardware as required.



- D. Refer to STEAM Room Projector Detail.
  - a. Receptacle and J-box shall be mounted flush to ceiling.
  - b. Projector shall be contractor installed. Provide mounting hardware as required.

Item 47: Refer to Volume 2 Sheet E601

- A. Clarification to power one-line note #1: Provide with 35" of Circuit Breaker Mounting Space. All Feeder circuit breakers shown shall be electronic Trip with adjustable settings in lieu of branch circuit breakers.
- B. Refer to power one-line note #6, disconnect shall be non-fusible in lieu of fusible.

Item 48: Refer to Volume 2 Sheet E602.

- F. Refer to Panelboard Schedule for Panel ENSA.
  - a. Provide panelboard with 42-poles in lieu of 30 poles.
  - b. Provide a 30A/3P breaker for a surge protection device.
  - c. Clarification: Circuit #12 shall be a 30A/2P breaker.
- G. Refer to Panelboard Schedule for Panel SA.
  - a. Provide a 30A/3P breaker for a surge protection device.
- H. Refer to Schedule for INV
  - a. Equipment to be pad mounted in lieu of flush.
  - b. Provide with 42,000 AIC rating.

**END OF ADDENDUM #1**

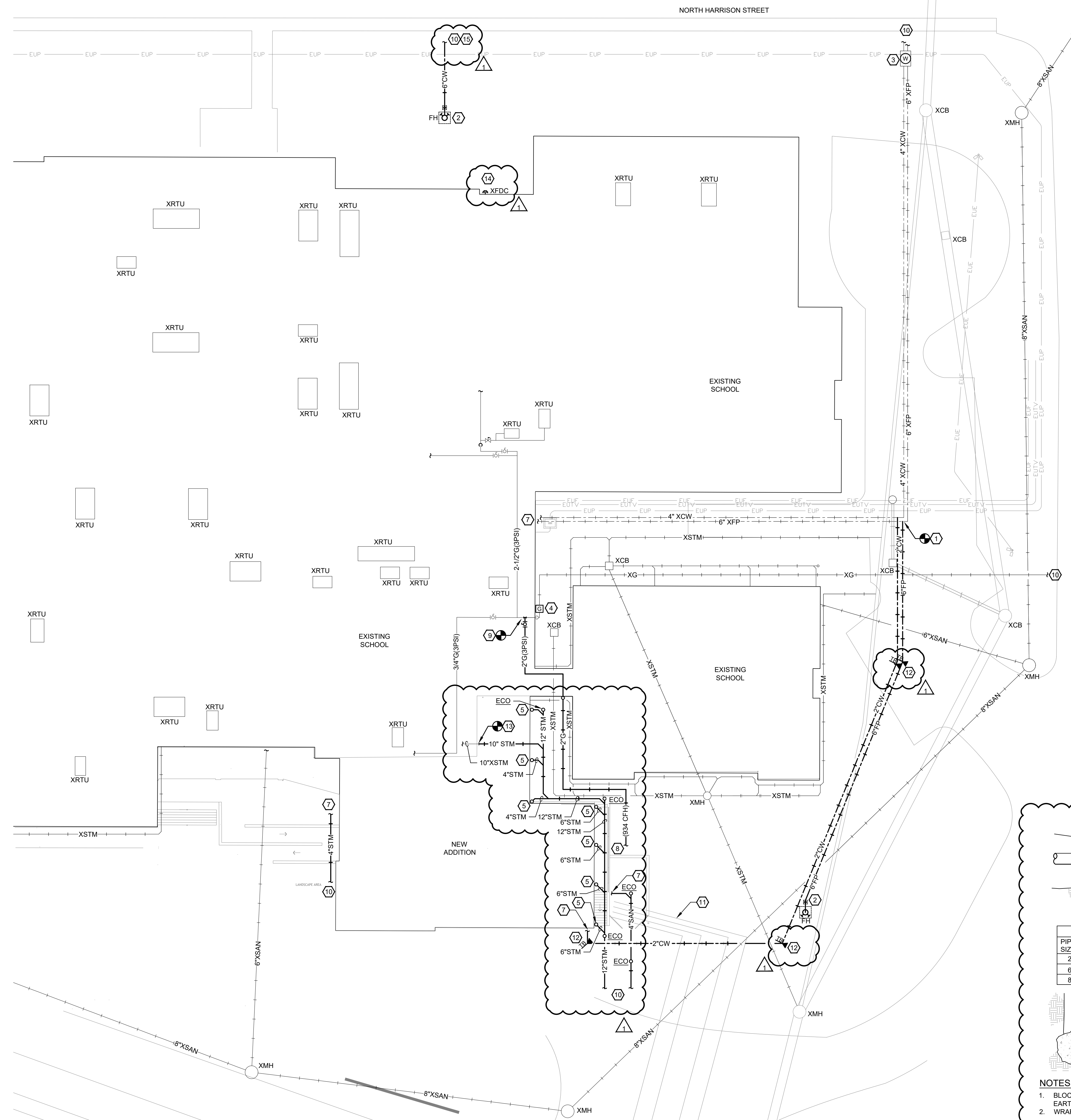
**GENERAL NOTES:**

- A. REFER TO SHEET P001 FOR GENERAL NOTES.
- B. PLUMBING/SITE CONTRACTOR(S) SHALL COORDINATE ALL REQUIRED SCOPE TO MAKE NEW CONNECTIONS TO EXISTING WATER MAIN WITH SALEM WATER AND THE OWNER PRIOR TO THE START OF CONSTRUCTION. LOCATION OF EXISTING WATER MAIN IS SHOWN FOR REFERENCE ONLY. CONTRACTOR(S) SHALL VERIFY THE LOCATION OF WATER MAIN WITHIN THE STREET PRIOR TO STARTING CONSTRUCTION.
- C. PLUMBING/SITE CONTRACTOR(S) SHALL PROCURE THE SERVICES OF A PRIVATE UTILITY LOCATING FIRM TO LOCATE AND DOCUMENT ALL EXISTING UNDERGROUND UTILITIES IN THE PROJECT AREA. UTILITIES SHALL BE LOCATED, MARKED, AND DOCUMENTED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. THE DOCUMENTATION SHALL INCLUDE SPECIFIC INFORMATION FOR EACH UTILITY SUCH AS LOCATION, DEPTH (AS APPROPRIATE), SIZE MATERIAL, STRUCTURES, METERS, VALVES, ETC. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY POTENTIAL CONFLICTS BETWEEN THE EXISTING UTILITIES AND THE NEW SCOPE OF WORK.
- D. IF ANY CHARTERED, UNCHARTERED, OR MISLOCATED UTILITY SERVICE IS INTERRUPTED, THE CONTRACTOR RESPONSIBLE FOR THE INTERRUPTION SHALL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER/ARCHITECT.
- E. ALL UTILITY TRENCHES SHALL BE INSPECTED BY THE ENGINEER OR OWNER PRIOR TO INSTALLATION OF PIPING AND BACKFILL. CONTACT THE ENGINEER TO SCHEDULE INSPECTION AND PROVIDE PHOTOGRAPHS AS REQUESTED.
- F. EXISTING ROADS AND SIDEWALKS ARE SHOWN FOR REFERENCE ONLY. PLUMBING/SITE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF DIMENSIONS AS REQUIRED.
- G. PAVEMENT, SIDEWALKS, ROADS, CURBING, STRIPING, ETC. SHALL BE CUT, PATCHED, AND REPAIRED AS REQUIRED FOR WORK. ALL REMOVAL/REPAIR SCOPE RELATED TO EXISTING ROADWAY SHALL BE COORDINATED WITH THE CITY OF SALEM PRIOR TO STARTING WORK.
- H. WHERE GREEN SPACES AND LANDSCAPING ARE DISTURBED, FINISH GRADE, SEE, STRAW, AND REPAIR LANDSCAPE TO BEFORE WORK CONDITIONS.
- I. IN B.U.D. BEFORE YOU DIG PHONE 1-800-382-5544. THE UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS ARE FROM SITE SURVEYS, RECORD DRAWINGS AND FROM VISUAL SITE INSPECTIONS. UTILITY LOCATIONS ARE APPROXIMATE AND THERE MAY BE OTHER UNDERGROUND UTILITIES IN THE AREA. CONTACT ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY EXCAVATION.
- J. COORDINATE ALL ROOF WORK WITH ANY EXISTING ROOF WARRANTY. WORK UNDER THIS SCOPE SHALL NOT COMPROMISE THE INTEGRITY OF THE ROOF SYSTEM. COORDINATE WORK WITH ROOFING COMPANY AS REQUIRED.

**NEW WORK KEYNOTES:**

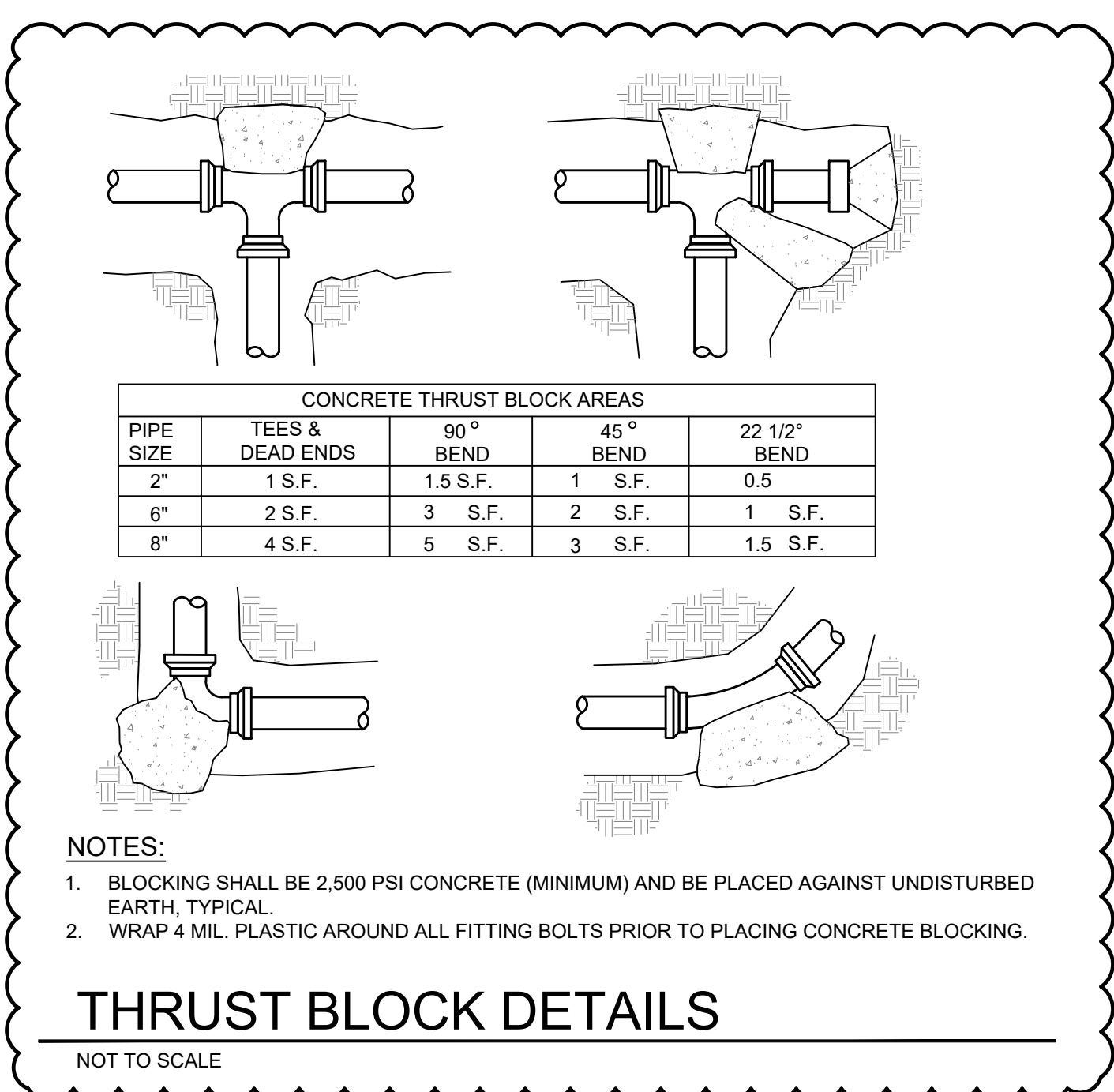
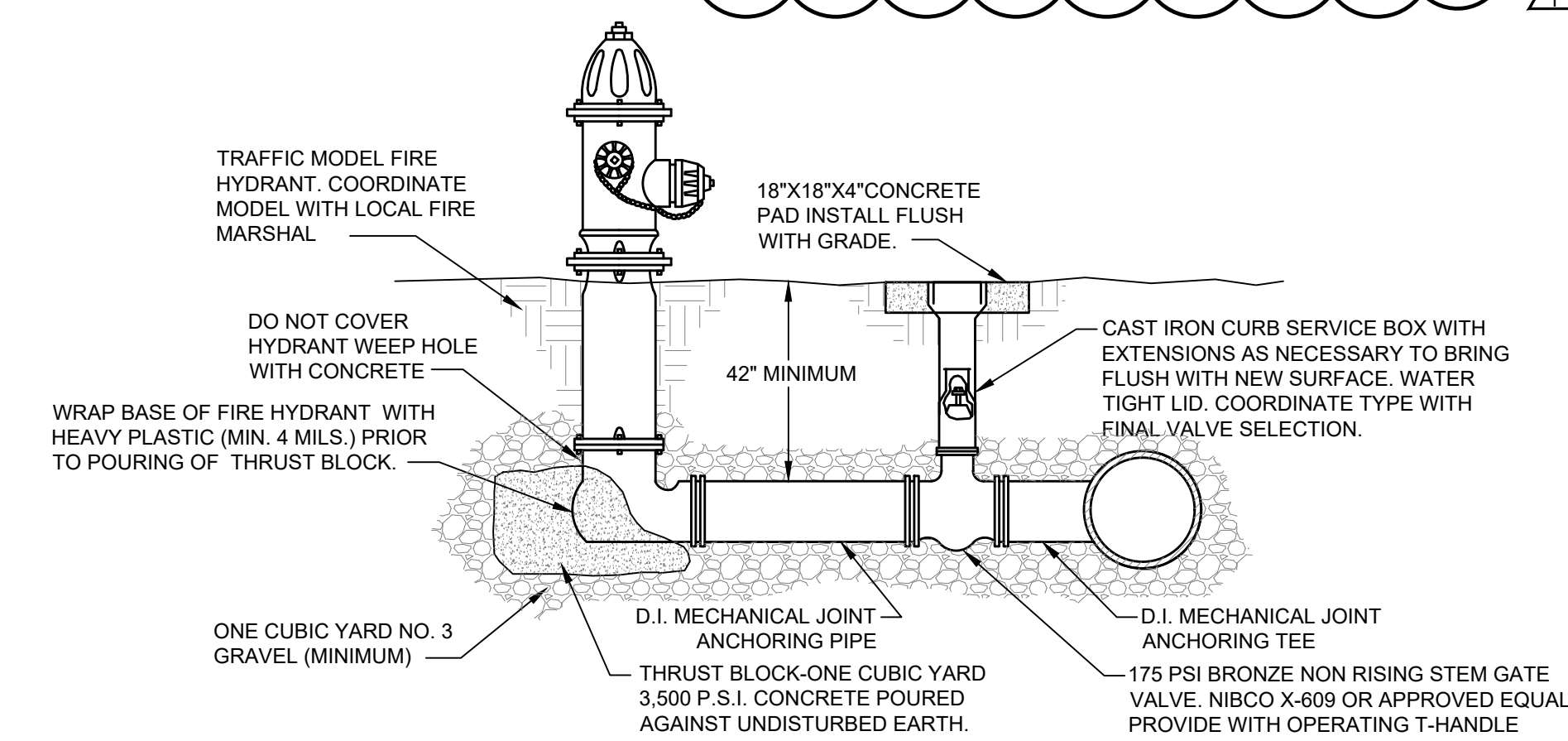
1. CONNECT NEW 2" DOMESTIC WATER TO EXISTING 3" WATER MAIN AND 6" FIRE PROTECTION SERVICES TO EXISTING 6" FIRE PROTECTION MAIN ON SITE IN THIS AREA. COORDINATE REQUIRED FITTINGS AND OTHER PIPING COMPONENTS TO MEET SALEM WATER COMPANY REQUIREMENTS. FIELD VERIFY APPROPRIATE CONNECTION LOCATION PRIOR TO INSTALLATION.
2. PROVIDE NEW FIRE HYDRANT PER DETAIL ON THIS SHEET. FINAL HYDRANT LOCATION AND MODEL TO BE SELECTED BY SALEM FIRE MARSHAL PRIOR TO INSTALLATION. PROVIDE SERVICE BOX PER DETAIL. PROVIDE 3'x3' CONCRETE PAD FOR FIRE HYDRANT SUPPORT AND 18"x18" PAD FOR SERVICE BOX INSTALLATION.
3. EXISTING WATER/FIRE SERVICE AND METER VAULT SHOWN FOR REFERENCE.
4. EXISTING NATURAL GAS METER SHOWN FOR REFERENCE.
5. CONNECT NEW STORM PIPING TO NEW DOWNSPOUTS. REFER TO ARCHITECTURAL DRAWINGS FOR DOWNSPOUT DIMENSIONS AND LOCATIONS. REFER TO CIVIL FOR DOWNSPOUT CONNECTION DETAILS.
6. NOT USED.
7. REFER TO FLOOR PLANS FOR CONTINUATION.
8. REFER TO DETAIL ON SHEET P501 FOR GENERATOR CONNECTION DETAILS.
9. CONNECT NEW 2" NATURAL GAS PIPING TO EXISTING NATURAL GAS PIPING ON ROOF. PROVIDE GAS COCK AT CONNECTION. COORDINATE ROUTING PATH ON ROOF WITH EXISTING ROOF EQUIPMENT. PROVIDE ADDITIONAL OFFSETS AND ELBOWS AS REQUIRED. PROVIDE PIPING SUPPORTS PER PROJECT SPECIFICATIONS AT MINIMUM 5'-0" INTERVALS AND AT ALL CHANGES IN DIRECTION. PAINT PIPING AND ALL VALVES/FITTINGS WITH (2) COATS OF UV-RESISTANT PAINT. PAINT COLOR TO BE SELECTED BY ARCHITECT.
10. REFER TO CIVIL PLANS FOR CONTINUATION.
11. EXISTING NATURAL GAS PIPING SHOWN FOR REFERENCE ONLY. REFER TO SHEET U201 FOR DETAILS.
12. PROVIDE THRUST BLOCK PER DETAIL ON THIS SHEET.
13. CONNECT NEW 10" STORM PIPING TO EXISTING BELOW GRADE 10" STORM PIPING LEAVING THE BUILDING IN THIS AREA. COORDINATE INVERT AND ROUTING WITH NEW AND EXISTING FOOTINGS IN THIS AREA. REFER TO STRUCTURAL DRAWINGS FOR DETAILS. NEW STORM PIPING IS TO BE ROUTED BELOW NEW FOOTINGS PER DETAIL ON STRUCTURAL DRAWINGS.
14. EXISTING FIRE DEPARTMENT CONNECTION SHOWN FOR REFERENCE.
15. CONNECT NEW 6" FIRE PROTECTION PIPING TO EXISTING WATER MAIN. COORDINATE REQUIRED SCOPE WITH SALEM WATER COMPANY. PROVIDE ALL REQUIRED FITTINGS AND OTHER PIPING COMPONENTS TO MEET SALEM WATER COMPANY REQUIREMENTS. FIELD VERIFY APPROPRIATE CONNECTION LOCATION PRIOR TO INSTALLATION.

UTILITY CONTACT INFORMATION	
SALEM WATER RONNIE FLOYD	PHONE: (812) 883-3937 EMAIL: RONNIE.FLOYD@CITYOFSALEM.IN.COM
SALEM SEWER TROY WATTS	PHONE: (812) 620-8471 EMAIL: TROY.WATTS@CITYOFSALEM.IN.COM
SALEM FIRE MARSHAL TOM DAY	PHONE: (812) 883-4970 EMAIL: TOM.DAY@CITYOFSALEM.IN.COM
MIDWEST GAS TERRY SHAFER	PHONE: (812) 752-2230 EMAIL: TSHAFAER@MIDWESTGAS.COM



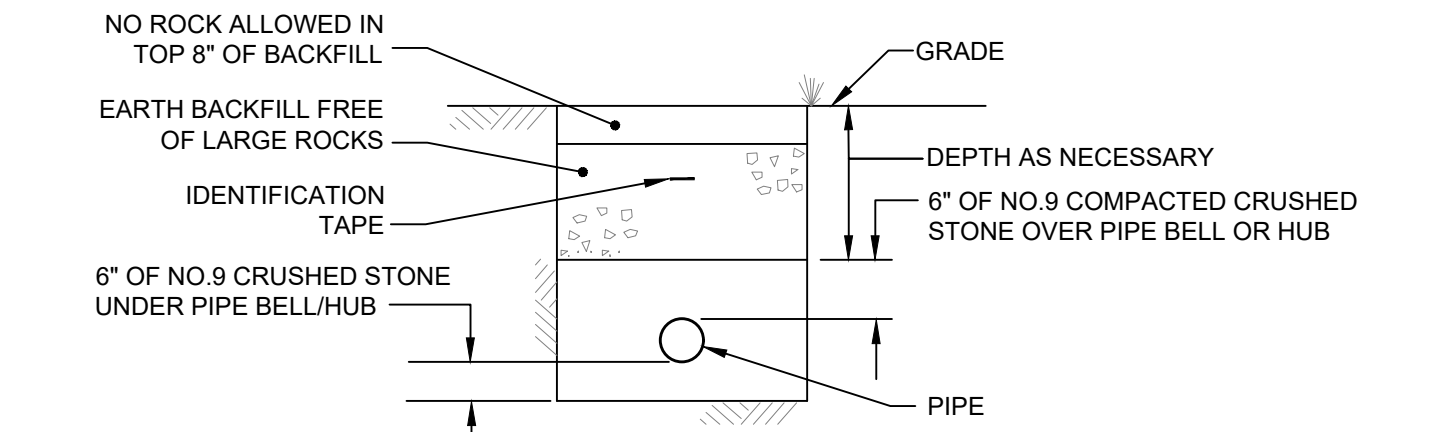
**PLUMBING SITE UTILITIES**  
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**FIRE HYDRANT DETAIL**  
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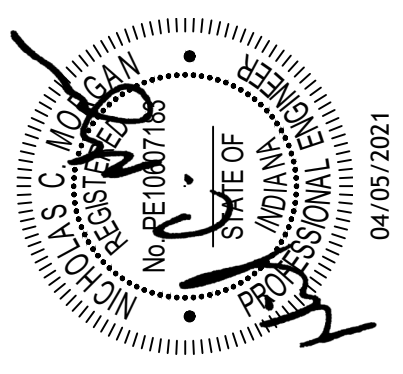
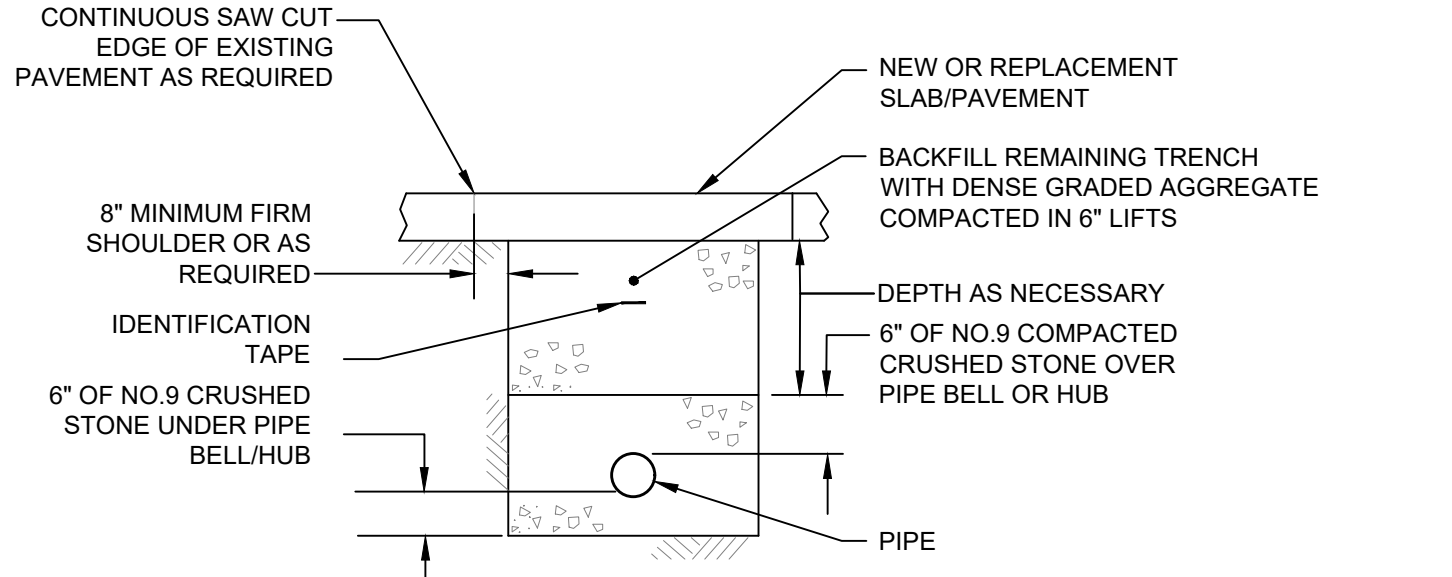


**THRUST BLOCK DETAILS**  
NOT TO SCALE

**TRENCH DETAIL FOR EARTH COVER**  
NOT TO SCALE



**TRENCH DETAIL FOR PAVEMENT COVER**  
NOT TO SCALE



**SHRODT TATE MECHANICAL AND ELECTRICAL ENGINEERS**  
 Lexington - Louisville  
 www.stemg.com

Drawn: bms  
 Checked by: JAT  
 Project No.: 230303.02  
 Date: 04/09/2021  
 Revisions:  
 1 ADDENDUM #1 2021.04.05  
 2  
 3  
 4  
 5  
 6  
 Certified By:

630 Walnut Street  
Jeffersonville, IN 47130  
812. 282. 9554  
812. 282. 9171 FAX  
www.koverthawkins.com



**KovertHawkins**  
architects

Drawn	BS
Checked By	JT
Project No.	202026L04
Date	04/05/2021
Revisions	
1	04/05/2021 ADDENDUM #1
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Certified By

SALEM COMMUNITY SCHOOLS - 2021 FEMA Safe Room Additions

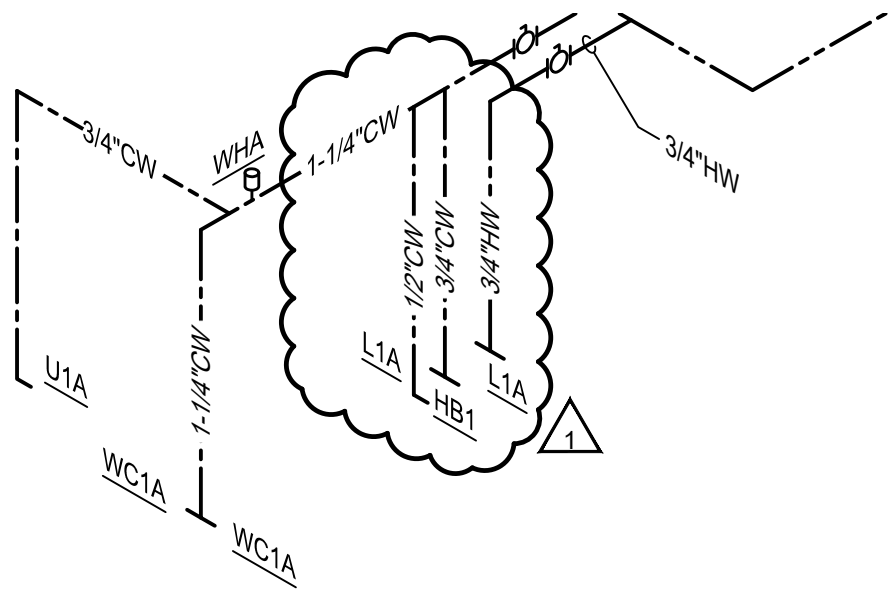
**Salem Middle School**  
**(Volume 2)**

1001 N. Harrison Street Salem, Indiana 47167

SCS

Sheet

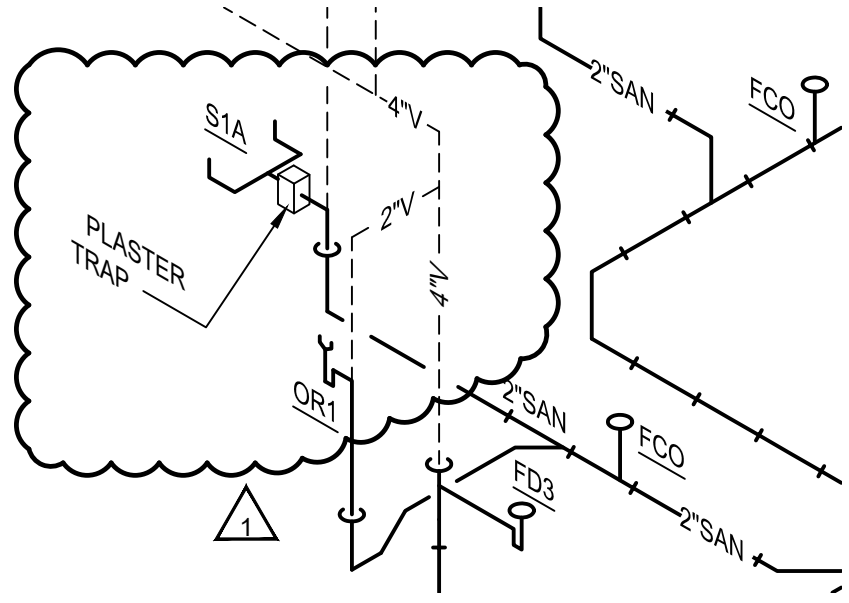
**P502A**



1

# DOMESTIC WATER RISER

NOT TO SCALE



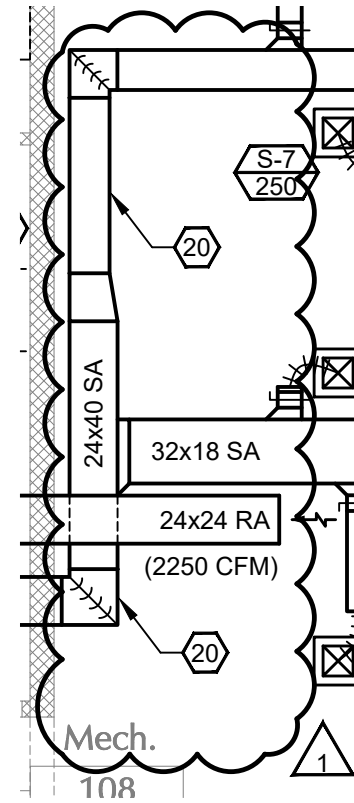
2

# SANITARY WASTE RISER

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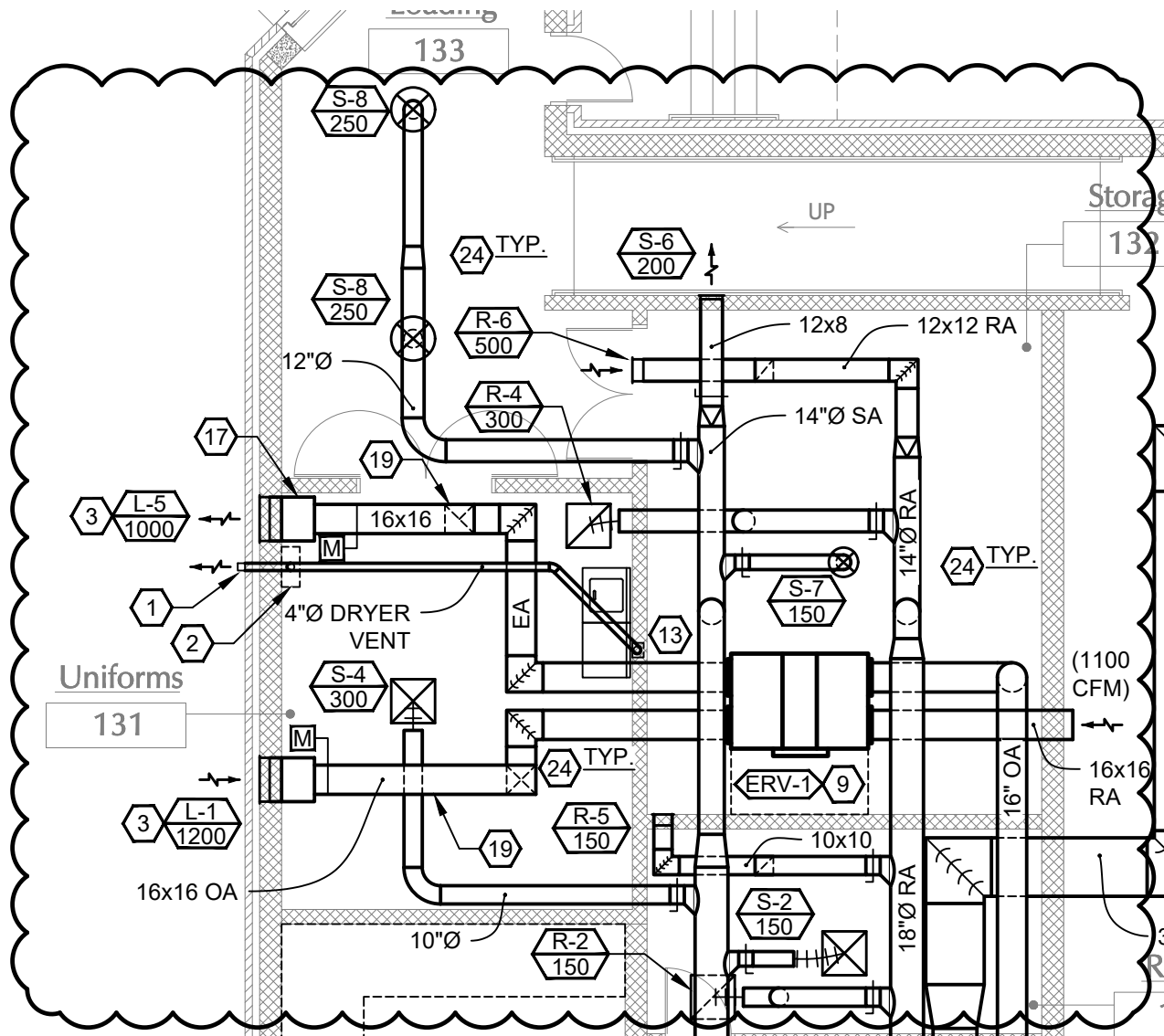
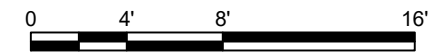
# SHEET KEYNOTES:

- 20. ROUTE DUCT IN SPACE BETWEEN CLOUD CEILING AND WALL. HOLD AS HIGH AS POSSIBLE. BOTTOM OF DUCT ON BRANCH TAKE-OFFS IS TO BE ABOVE THE TOP OF THE CLOUD CEILINGS, REFER TO ARCHITECTURAL PLANS FOR CLOUD CEILING DIMENSIONS. PROVIDE BLACK DUCT WRAP PER SPECIFICATION SECTION 23 31 13 3.3CB ON THIS SECTION OF DUCT.
- 24. PROVIDE BLACK DUCT WRAP PER SPECIFICATION SECTION 23 31 13 3.3CB ON ALL EXPOSED SUPPLY AND OUTSIDE AIR DUCT IN THIS ROOM.



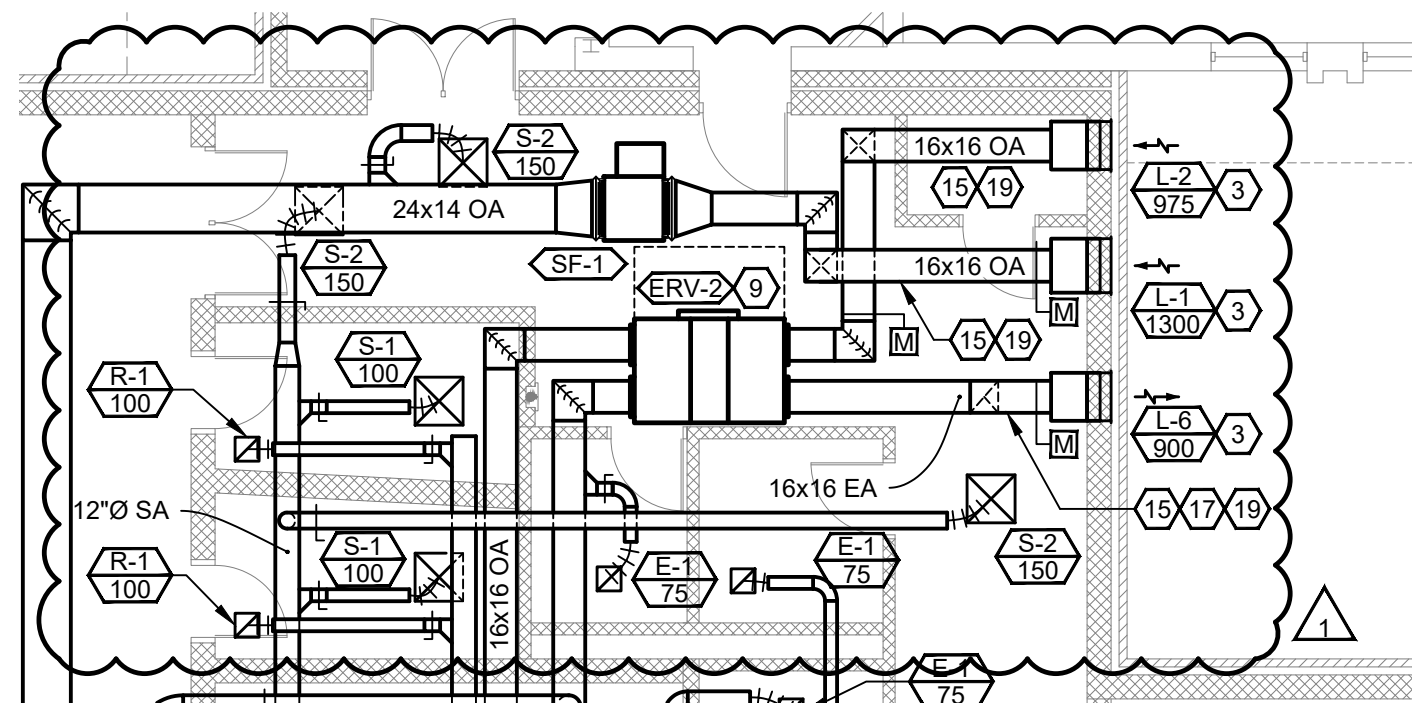
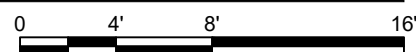
## FLOOR PLAN - AIR DISTRIBUTION NEW WORK

SCALE: 1/8"=1'-0"



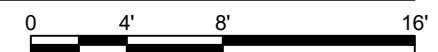
## FLOOR PLAN - AIR DISTRIBUTION NEW WORK

SCALE: 1/8"=1'-0"



## FLOOR PLAN - AIR DISTRIBUTION NEW WORK

SCALE: 1/8"=1'-0"

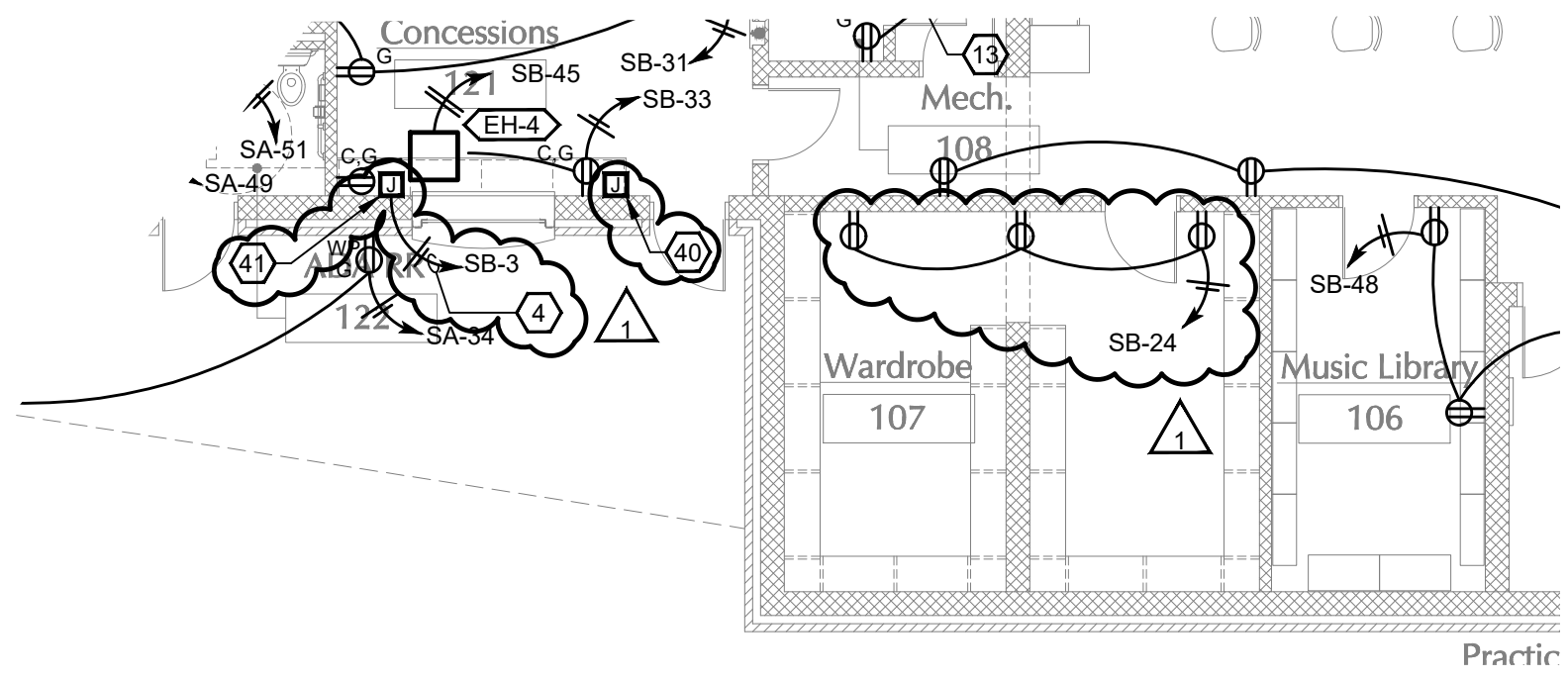


Drawn	BMS
Checked By	JAT
Project No.	202020.01
Date	04/05/2021

Drawn	ZSD
Checked By	WCC
Project No.	202020.01
Date	04/05/2021
Revisions	04/05/2021 ADDENDUM #1
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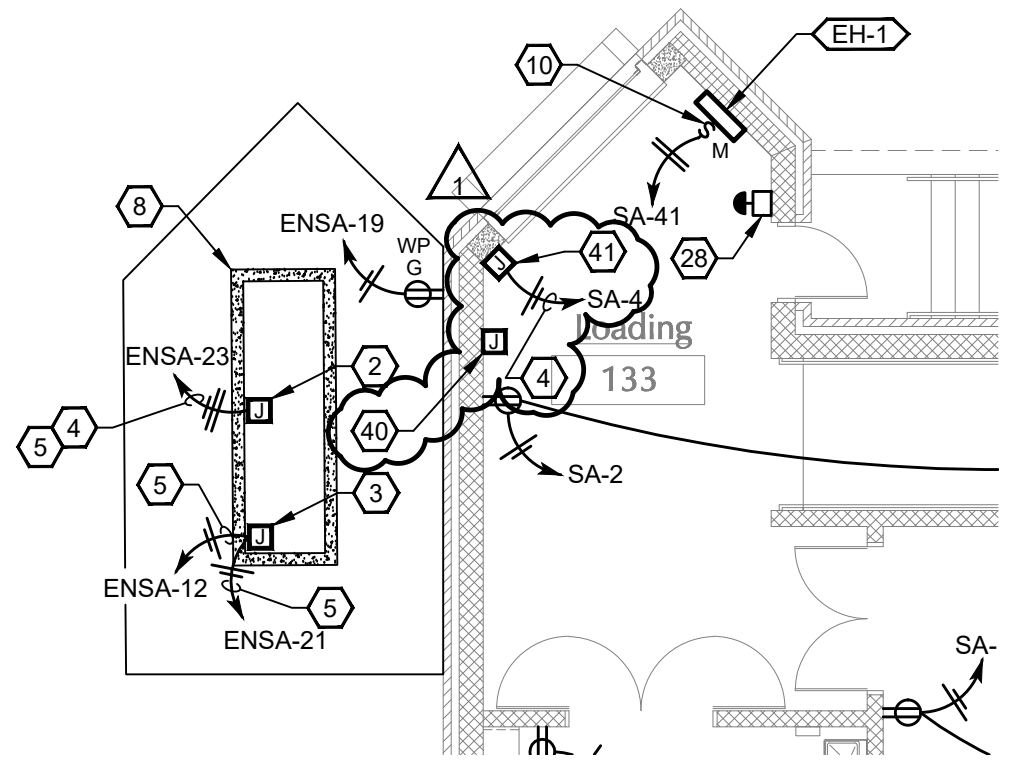
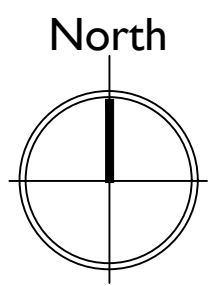
## SHEET KEYNOTES:

4. PROVIDE #10 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT.
40. PROVIDE ROUGH-INS FOR COILING DOOR AND ASSOCIATED CONTROLS, DEVICES, ETC. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
41. PROVIDE ALL CONNECTIONS AND FIELD WIRING TO MOTORIZED COILING DOOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH THE MANUFACTURER PRIOR TO INSTALLATION.



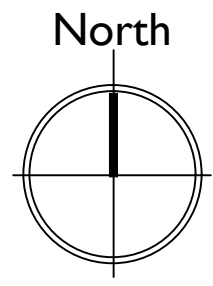
## FLOOR PLAN - POWER

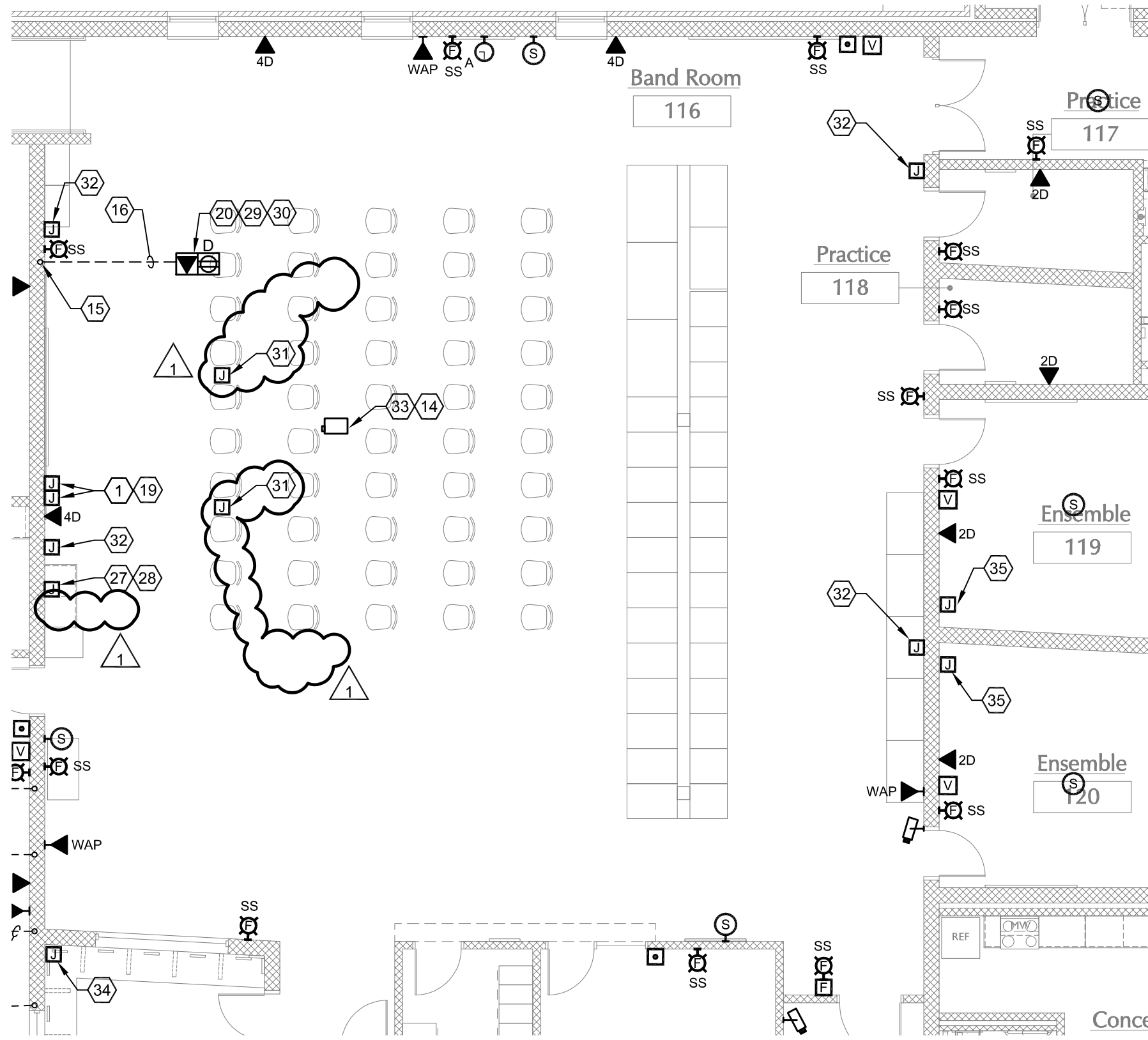
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## FLOOR PLAN - POWER

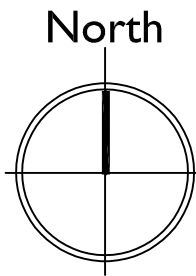
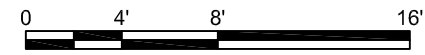
SCALE: 1/8"=1'-0"





# FLOOR PLAN - SYSTEMS

SCALE: 1/8"=1'-0"



## SHEET KEYNOTES:

14. PROPOSED LOCATION OF PROJECTOR. PROVIDE ADDITIONAL UNISTRUT AND MOUNTING HARDWARE AS REQUIRED. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS. REFER TO TECHNOLOGY T100 AND T200 FOR AUDIO ROUGH-IN AND CONDUITS. COORDINATE WITH AUDIO SUBCONTRACTOR ON SITE IN A TIMELY FASHION. MAKE MINOR ADJUSTMENTS IN AUDIO BOXES AS REQUIRED ON TECHNOLOGY SHEETS. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDED CONDUIT DETAILS.

27. PROVIDE 12"X12" SURFACE MOUNTED BOX AT 56" BEHIND AUDIO RACK WITHIN WARDROBE. PROVIDE CONDUITS AS REQUIRED FOR DEVICES AND EQUIPMENT. COORDINATE FINAL LOCATION AND EXACT REQUIREMENTS WITH ARCHITECT AND AV/ACOUSTICAL VENDOR. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

28. PROVIDE 1-1/4" CONDUIT WITH PULL STRING TO AV BOX IN RECORDING ROOM AS REQUIRED. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

29. PROVIDE 1-1/4" CONDUIT WITH PULL STRING FOR VIDEO CONNECTION TO 12"X12" BOX MOUNTED BEHIND AUDIO RACK. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

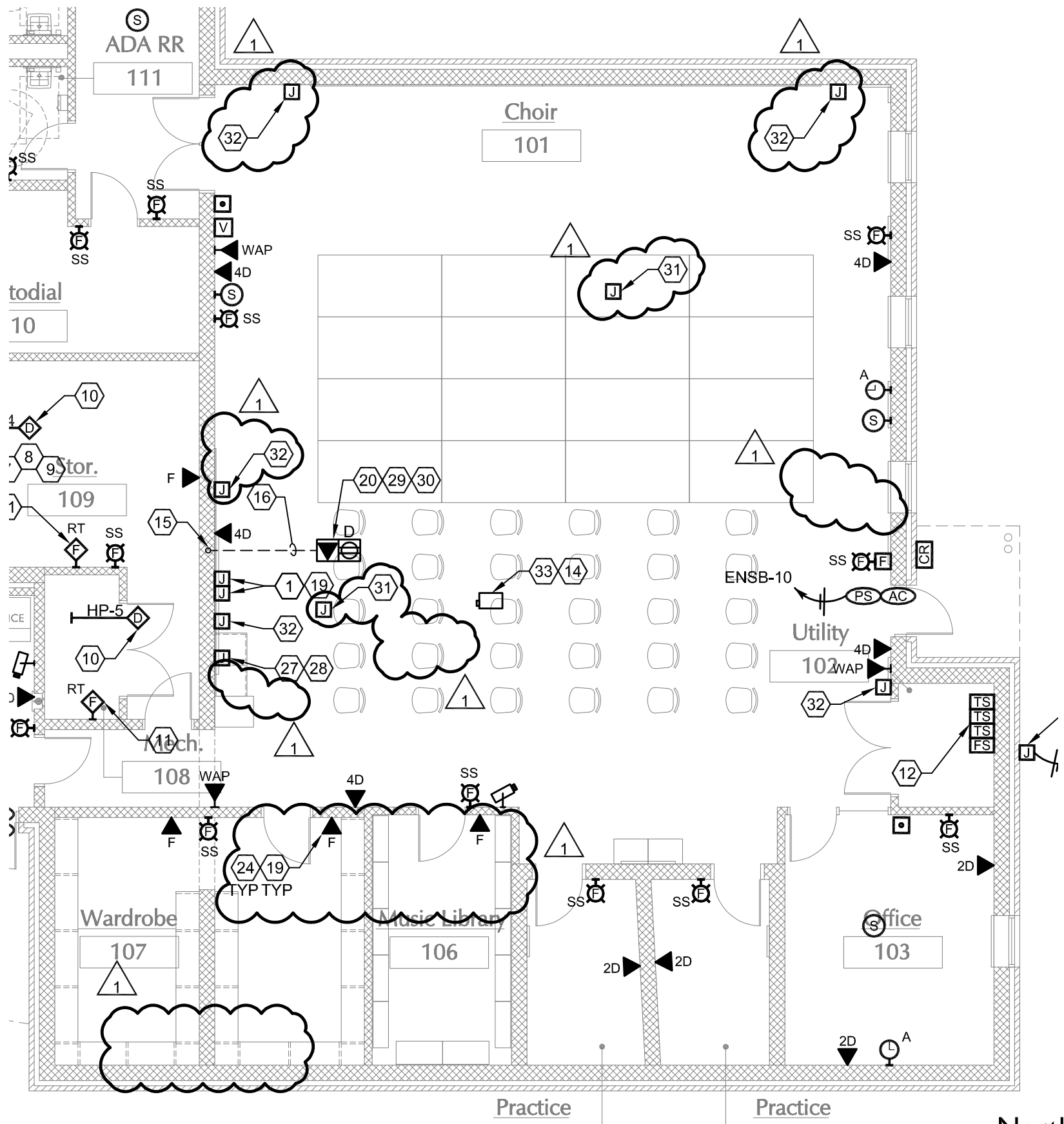
31. PROVIDE ROUGH-IN FOR CEILING MOUNTED MICROPHONE AND 3/4" CONDUIT WITH PULL STRING TO 12"X12" BOX MOUNTED BEHIND AUDIO RACK. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS. COORDINATE 1 GANG PLATE WITH AV/ACOUSTICAL VENDOR ON CEILING TILE.

32. PROVIDE ROUGH-IN FOR WALL MOUNTED STEREO PLAYBACK SPEAKER AND 3/4" CONDUIT WITH PULL STRING TO 12"X12" BOX MOUNTED BEHIND AUDIO RACK. COORDINATE FINAL MOUNTING HEIGHT AND REQUIREMENTS WITH ACOUSTICAL CONTRACTOR. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

34. PROVIDE 12"X12" SURFACE MOUNTED BOX BELOW COUNTER. PROVIDE CONDUITS AS REQUIRED FOR DEVICES AND EQUIPMENT. COORDINATE FINAL LOCATION AND EXACT REQUIREMENTS WITH ARCHITECT AND AV/ACOUSTICAL VENDOR. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

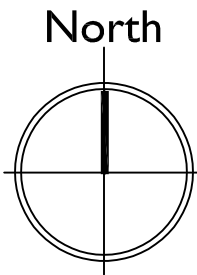
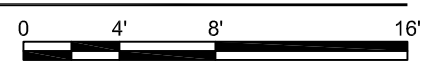
35. PROVIDE 2-GANG BOX AT 16" AFF TO BOTTOM. PROVIDE 1-1/4" CONDUIT WITH PULL STRING TO 12"X12" BOX IN RECORDING ROOM AS REQUIRED. COORDINATE FINAL LOCATION AND EXACT REQUIREMENTS WITH ARCHITECT AND AV/ACOUSTICAL VENDOR. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

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Date	04/05/2021



# FLOOR PLAN - SYSTEMS

SCALE: 1/8"=1'-0"



## SHEET KEYNOTES:

14. PROPOSED LOCATION OF PROJECTOR. PROVIDE ADDITIONAL UNISTRUT AND MOUNTING HARDWARE AS REQUIRED. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS. REFER TO TECHNOLOGY T100 AND T200 FOR AUDIO ROUGH-IN AND CONDUITS. COORDINATE WITH AUDIO SUBCONTRACTOR ON SITE IN A TIMELY FASHION. MAKE MINOR ADJUSTMENTS IN AUDIO BOXES AS REQUIRED ON TECHNOLOGY SHEETS. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDED CONDUIT DETAILS.

27. PROVIDE 12"X12" SURFACE MOUNTED BOX AT 56" BEHIND AUDIO RACK WITHIN WARDROBE. PROVIDE CONDUITS AS REQUIRED FOR DEVICES AND EQUIPMENT. COORDINATE FINAL LOCATION AND EXACT REQUIREMENTS WITH ARCHITECT AND AV/ACOUSTICAL VENDOR. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

28. PROVIDE 1-1/4" CONDUIT WITH PULL STRING TO AV BOX IN RECORDING ROOM AS REQUIRED. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

29. PROVIDE 1-1/4" CONDUIT WITH PULL STRING FOR VIDEO CONNECTION TO 12"X12" BOX MOUNTED BEHIND AUDIO RACK. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

31. PROVIDE ROUGH-IN FOR CEILING MOUNTED MICROPHONE AND 3/4" CONDUIT WITH PULL STRING TO 12"X12" BOX MOUNTED BEHIND AUDIO RACK. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS. COORDINATE 1 GANG PLATE WITH AV/ACOUSTICAL VENDOR ON CEILING TILE.

32. PROVIDE ROUGH-IN FOR WALL MOUNTED STEREO PLAYBACK SPEAKER AND 3/4" CONDUIT WITH PULL STRING TO 12"X12" BOX MOUNTED BEHIND AUDIO RACK. COORDINATE FINAL MOUNTING HEIGHT AND REQUIREMENTS WITH ACOUSTICAL CONTRACTOR. REFER TO SHEET T100 AND ARCHITECTURAL ELEVATIONS FOR ADDITIONAL REQUIREMENTS.

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700 N. Harrison Street Salem, Indiana 47167

SCS  
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E301B

**GENERAL LIGHTING FIXTURE SCHEDULE NOTES**

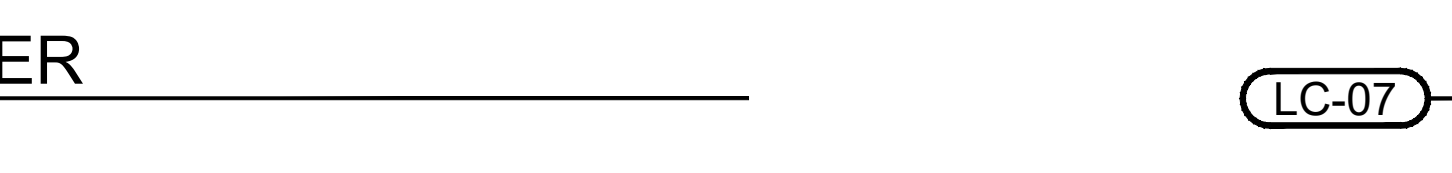
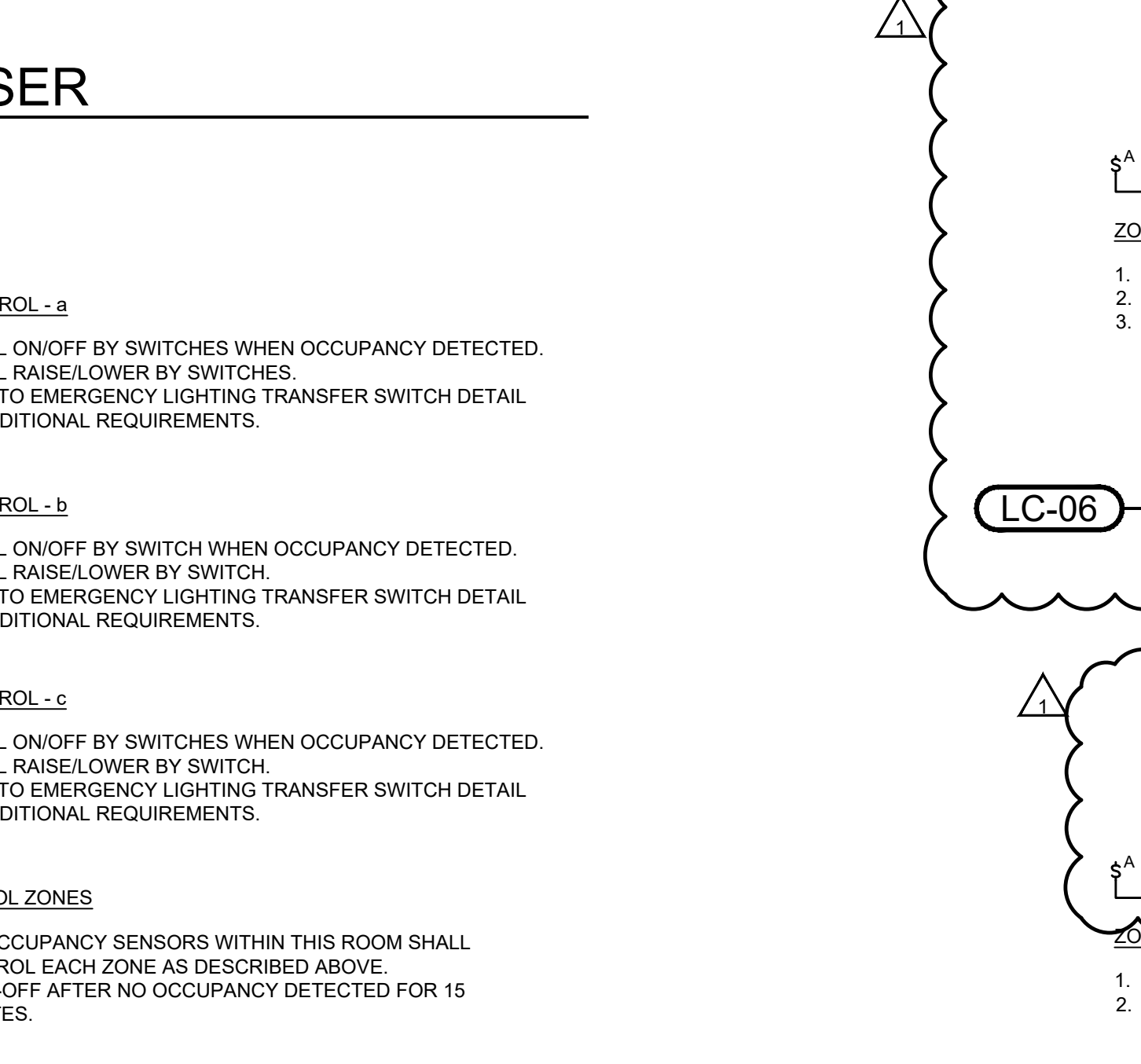
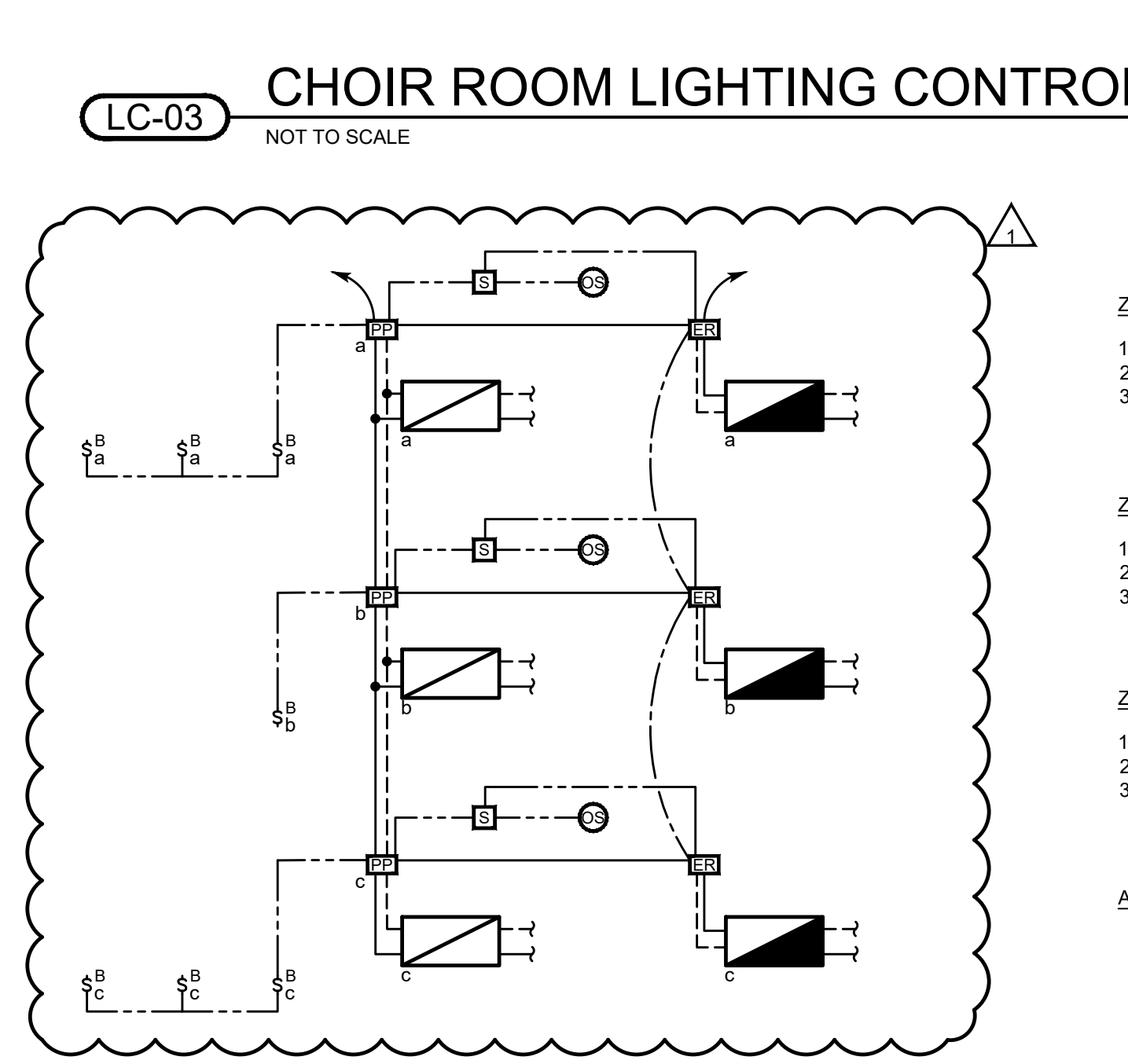
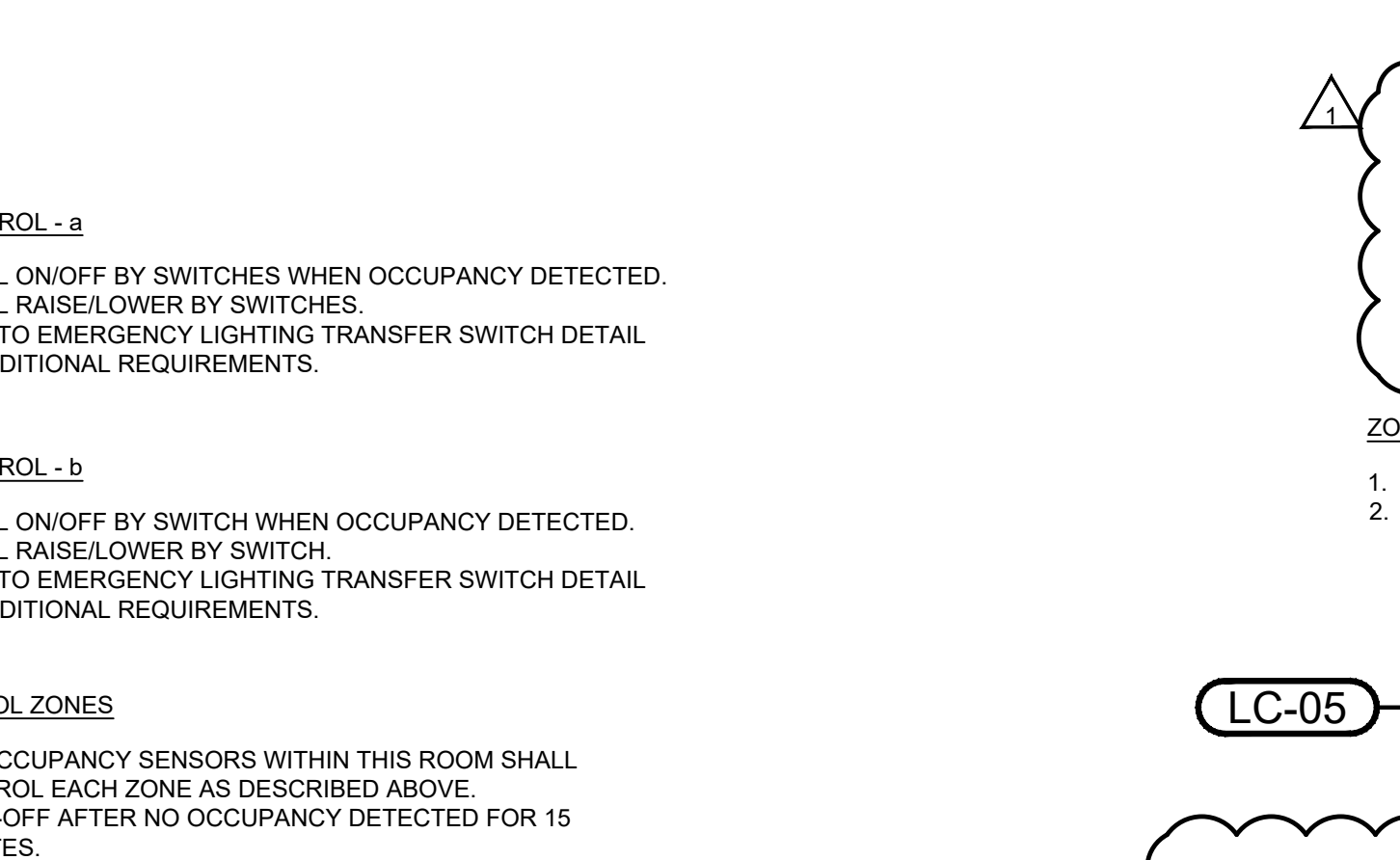
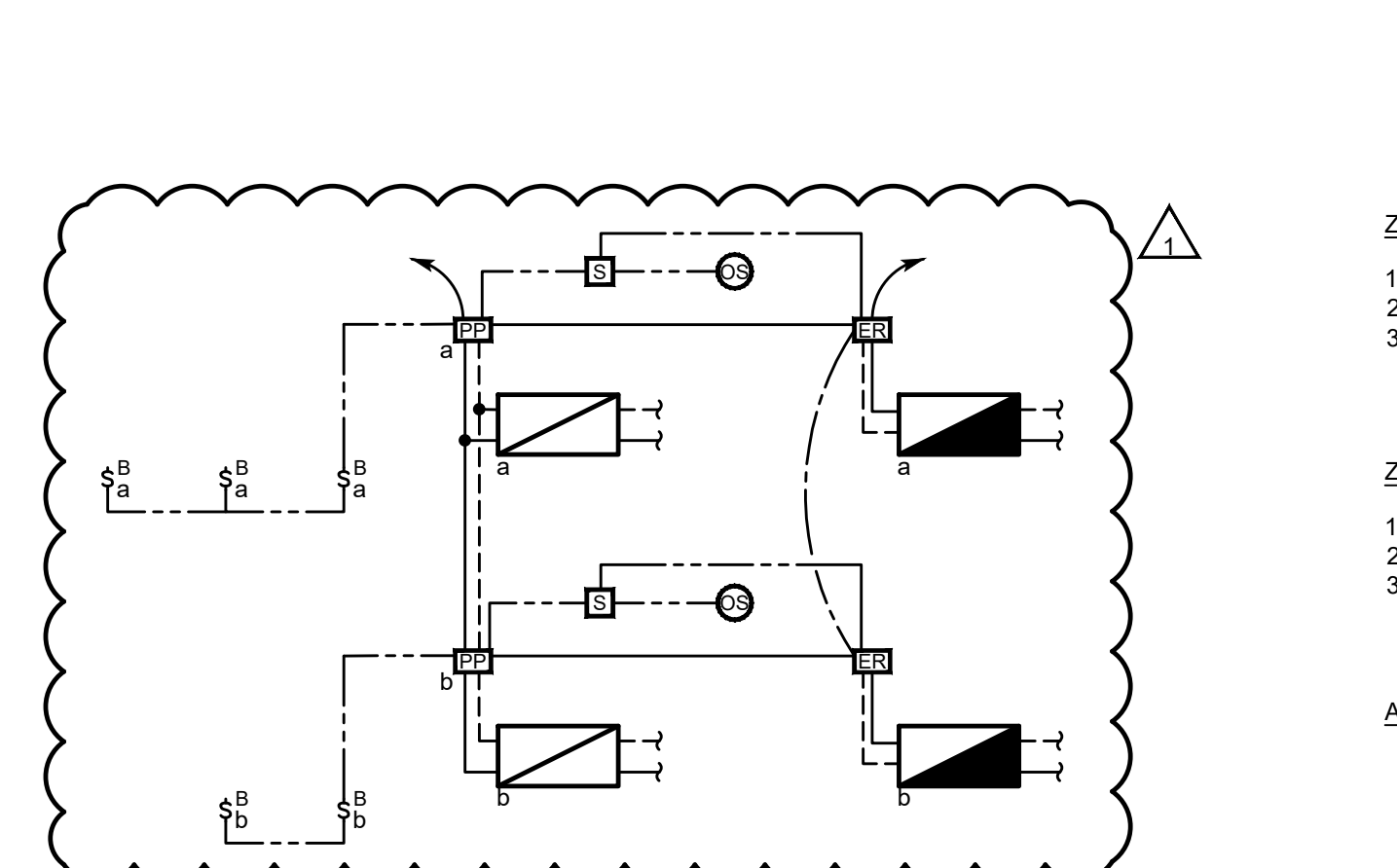
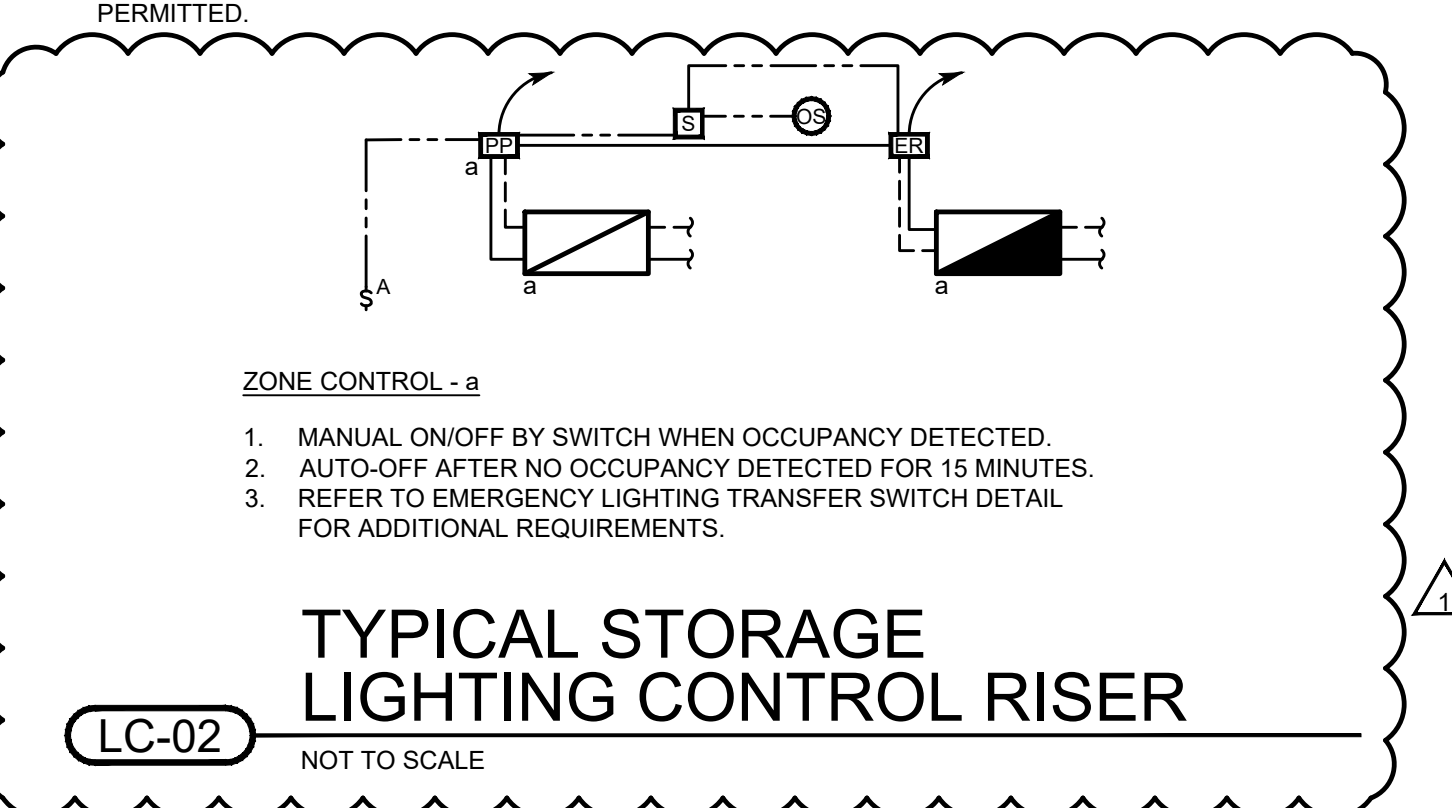
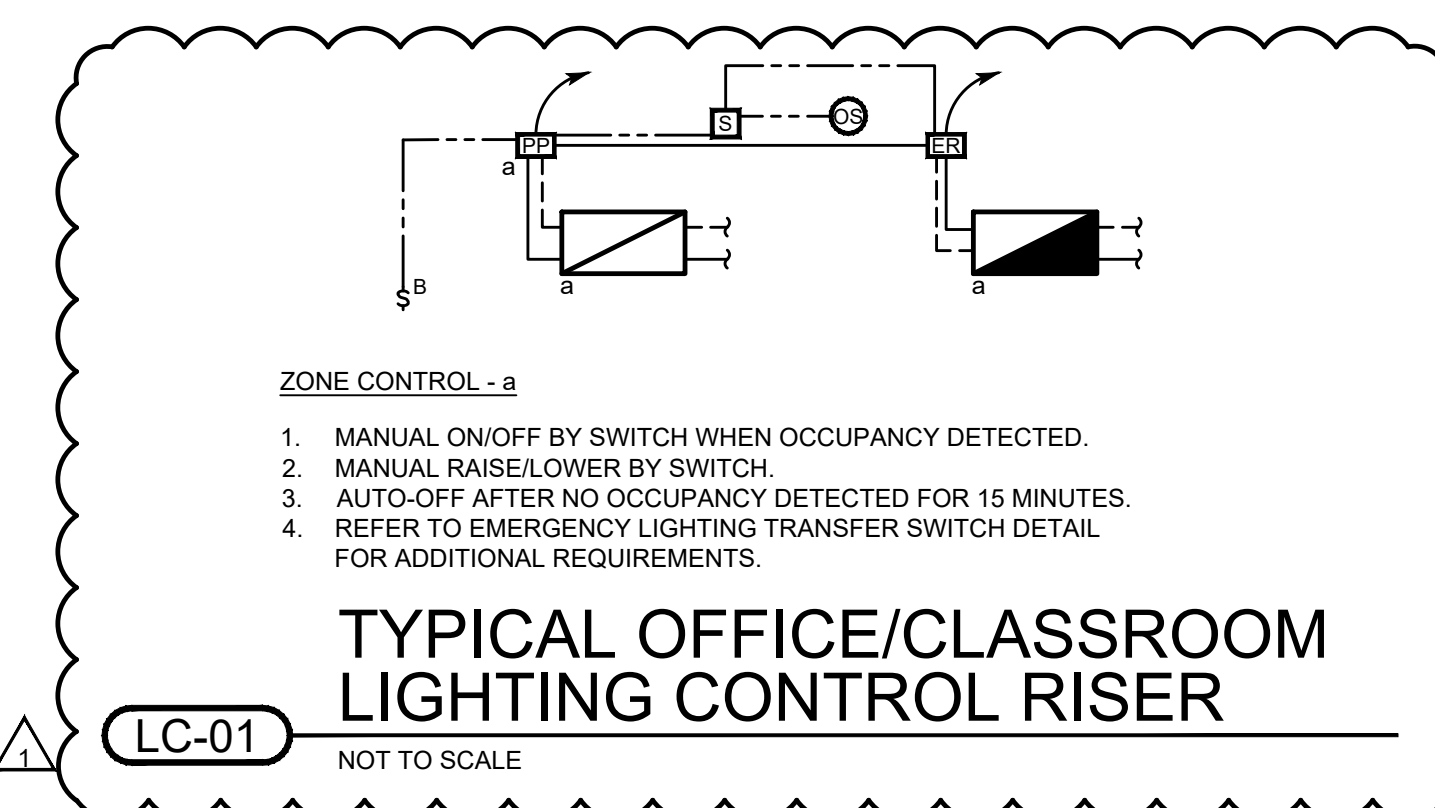
1. PROVIDE INTERNAL QUICK DISCONNECTS FOR ALL INTERIOR LIGHT FIXTURE DRIVERS.
2. ALL RECESSED TROFFERS SHALL BE SUPPORTED AT EACH OF THE FOUR CORNERS.
3. ALL FIXTURES SHALL HAVE A FIVE-YEAR WARRANTY.
4. FINISHES FOR ALL FIXTURES SHALL BE COORDINATE WITH ENGINEER AND ARCHITECT DURING THE SHOP DRAWING SUBMITTAL PHASE.

FIXTURE TYPE	DESCRIPTION	LAMPS					VOLTS	MOUNTING TYPE	MANUFACTURER - MODEL NUMBER	NOTES
		TYPE	CRI	DIMMING	COLOR TEMP	LUMENS				
A	2'x4' EDGE-LIT LED FLAT PANEL, RECESSED GRID, LENSED, 100%-1% DIMMABLE 0-10V LED DRIVER, ALUMINUM FRAME WITH INTEGRATED WIRED DIMMING CONTROL.	LED	>80	0-10V, @ 1%	4000K	5119	45	MVOLT	LITHONIA - EPANL 2'x4' 4800LM 80CRI 40K MINI EZT MVOLT EATON EQUAL HUBBELL EQUAL	-
B1	2'x2' EDGE-LIT LED FLAT PANEL, RECESSED GRID, LENSED, 100%-1% DIMMABLE 0-10V LED DRIVER, ALUMINUM FRAME WITH INTEGRATED WIRED DIMMING CONTROL.	LED	>80	0-10V, @ 1%	4000K	3566	30	MVOLT	LITHONIA - EPANL 2'x2' 3400LM 80CRI 40K MINI EZT MVOLT EATON EQUAL HUBBELL EQUAL	-
B2	SAME AS 'B1' EXCEPT WITH DIFFERENT LUMEN PACKAGE	LED	>80	0-10V, @ 1%	4000K	4121	37	MVOLT	LITHONIA - EPANL 2'x2' 4000LM 80CRI 40K MINI EZT MVOLT EATON EQUAL HUBBELL EQUAL	-
C	2'x4' INDIRECT LED, RECESSED GRID, LOW PROFILE, CENTER BASKET, FROSTED ACRYLIC DIFFUSER, 100%-1% DIMMABLE 0-10V LED DRIVER, INTEGRATED WIRED/WIRELESS DIMMING CONTROL.	LED	>80	0-10V, @ 1%	4000K	4064	32	MVOLT	LITHONIA - 28BLT4 40L ADP GZ1 LP840 EATON EQUAL HUBBELL EQUAL	-
D	4" PENDANT STEM CYLINDER LED, BATHING DISTRIBUTION WITH FEATHERED EDGES, 100%-1% DIMMABLE 0-10V LED DRIVER, DAMP LOCATION LISTED, AND FIELD CUTTABLE 1/2" STEM.	LED	>80	0-10V, @ 1%	4000K	3612	38	MVOLT	GOTHAM - EVO4PC 40/35 AR MD LSS MVOLT GZ1 JBX SXX EATON EQUAL HUBBELL EQUAL	1,2,3
F	4" LED STRIP WITH ACRYLIC LENS, COLD-ROLLED STEEL CHANNEL AND COVER, 100%-1% DIMMABLE 0-10V LED DRIVER, PROVIDE WITH WIREGUARD.	LED	>80	0-10V, @ 1%	4000K	4701	35	MVOLT	LITHONIA - CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI EATON EQUAL HUBBELL EQUAL	3,9,10
G	2" LED STRIP WITH ACRYLIC LENS, COLD-ROLLED STEEL CHANNEL AND COVER, 100%-1% DIMMABLE 0-10V LED DRIVER.	LED	>80	0-10V, @ 1%	4000K	2436	18	MVOLT	LITHONIA - CLX L24 2500LM SEF FDL MVOLT GZ10 40K 80CRI EATON EQUAL HUBBELL EQUAL	8
OL1	QUARTER SPHERE LED WALL SCONCE, DIE-CAST ALUMINUM HOUSING WITH SOLID SILICONE DOOR GASKET, WEATHERING RESISTANT POWDER COATING.	LED	>80	-	4000K	3139	29	MVOLT	LITHONIA - WSO P2 40K SR2 MVOLT DBLBXD EATON EQUAL HUBBELL EQUAL	5
OL2	PARKING LOT AREA LED WITH ONE PIPE DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS, AND BACKLIGHT CONTROL DISTRIBUTION ON 5" SQUARE STRAIGHT STEEL POLE.	LED	>80	-	4000K	24268	207	MVOLT	LITHONIA - LOM S W 3 R MVOLT EATON EQUAL HUBBELL EQUAL	5,6
X1	SINGLE-FACED LOW-WATTAGE EXT SIGN, ENGINEERING-GRADE THERMOPLASTIC UNIBODY HOUSING, HOUSING SNAPS TOGETHER WITH NO ADDITIONAL FASTENERS ALONG WITH FACEPLATES.	LED	-	-	-	-	-	MVOLT	LITHONIA - LOM S W 3 R MVOLT EATON EQUAL HUBBELL EQUAL	7
X2	SAME AS TYPE 'X1' WITH BATTERY/DRIVER	LED	-	-	-	-	-	MVOLT	LITHONIA - LOM S W 3 R MVOLT EL N SD EATON EQUAL HUBBELL EQUAL	4,7

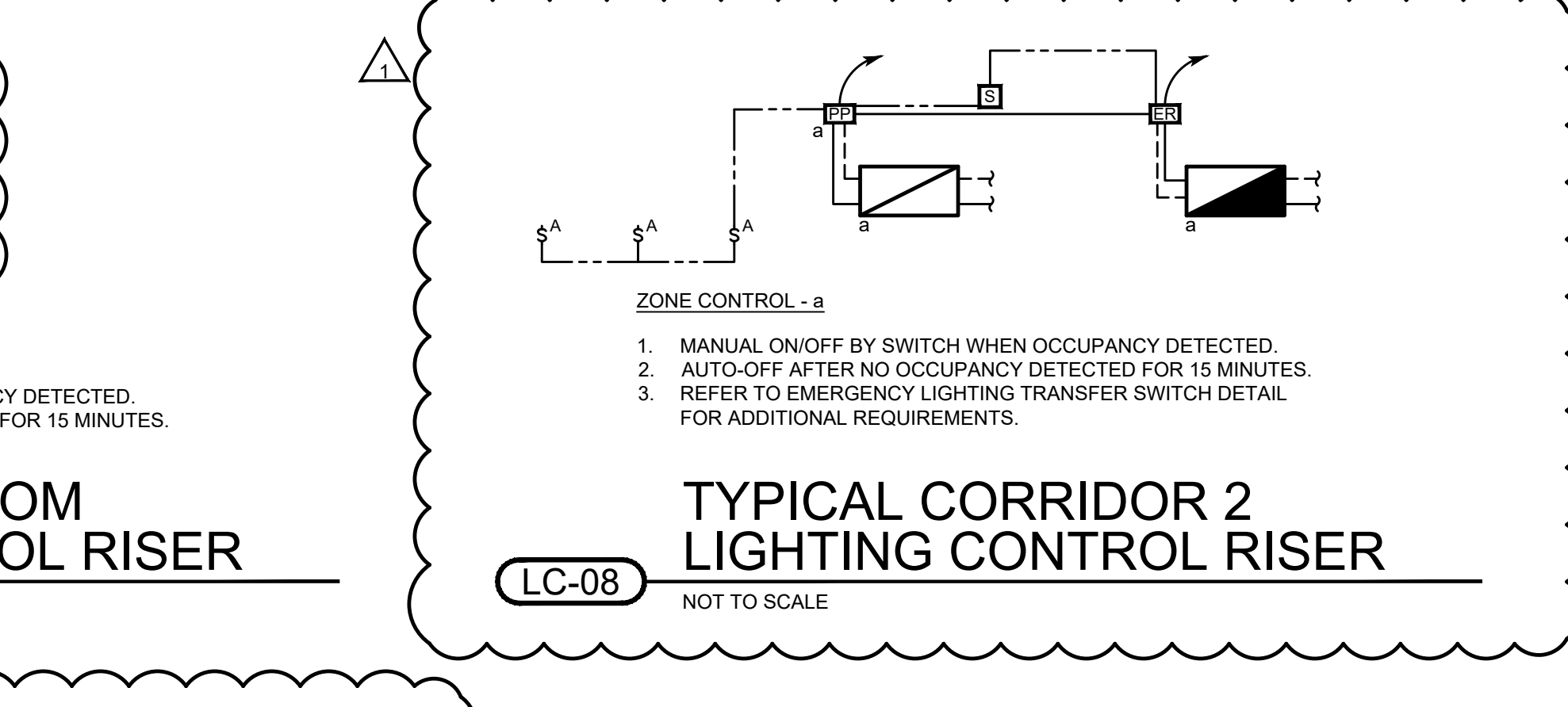
**GENERAL LIGHTING CONTROLS NOTES**

1. ALL LOW-VOLTAGE LIGHTING CONTROLS CABLING SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. PROVIDE AUXILIARY POWER PACK PER CONTROL ZONE AND CAT5e CABLING CONNECTION FROM ROOM CONTROLLER/RELAY POWER PACK FOR TEMPERATURE CONTROLS CABLING CONNECTIONS. DEVICES AND CABLING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR WITH THE EXCEPTION OF THE CONNECTION BETWEEN THE AUXILIARY POWER PACK AND THE TEMPERATURE CONTROLS SYSTEM. COORDINATE ALL REQUIREMENTS WITH TCC AS REQUIRED.
3. PROVIDE ADDITIONAL 25 FEET OF CONTROLS CABLING COILED UP ABOVE CEILING AT EACH OCCUPANCY AND DAYLIGHT SENSOR.
4. WALL STATION BUTTONS SHALL BE PROVIDED WITH CUSTOM ENGRAVED LABELS. EXAMPLE: "ON/OFF", "UP ARROW", VERIFY ENGRAVING WITH OWNER/ENGINEER PRIOR TO RELEASE OF SHOP DRAWINGS.
5. WHERE MULTIPLE CONTROL ZONES ARE PRESENT IN SINGLE ROOM/AREA, PROVIDE ENGRAVING ON THE SWITCH INDICATING ZONE BEING SERVED. EXAMPLE: "CHECKOUT DESK", "CLASSROOM AREA". VERIFY ENGRAVING WITH OWNER/ENGINEER PRIOR TO RELEASE OF SHOP DRAWINGS. POWER PACKS SHALL BE LABELED WITH CORRESPONDING LETTERING ON PERMANENT LAMACOID LABELS.
6. PROVIDE MOUNTING BRACKETS AND ADDITIONAL SUPPORTS, HARDWARE, ETC. FOR CEILING MOUNTED SENSORS. DEVICES SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS. SUPPORTING DEVICES BY THE CEILING TILE OR GRID IS NOT PERMITTED.
7. THE DETECTION OF OCCUPANCY BY ONE OCCUPANCY SENSOR SHALL ENABLE ALL LIGHTS WITHIN THAT CONTROL ZONE TO OPERATE. CONNECT OCCUPANCY SENSORS TOGETHER AS REQUIRED FOR THIS FUNCTION.
8. FOR EMERGENCY RELAYS, PROVIDE PERMANENT WARNING LABEL ON EMERGENCY LIGHT FIXTURES AND DRIVER COVERS NOTING TWO SEPARATE CIRCUITS ARE PRESENT AT EACH FIXTURE.
9. INDICATE ALL POWER PACK AND EMERGENCY TRANSFER/RELAY LOCATIONS ON AS-BUILT DRAWINGS.
10. IN FINISHED SPACES, INSTALL POWER PACKS AND EMERGENCY TRANSFER/RELAY DEVICES ABOVE ACCESSIBLE CEILING (UNLESS OTHERWISE NOTED). INSTALL DIRECTLY ABOVE SWITCH LOCATIONS WHERE POSSIBLE.
11. IN FINISHED AREAS WITHOUT CEILINGS, INSTALL POWER PACKS AND EMERGENCY TRANSFER/RELAY DEVICES IN ADJACENT SPACE WITH ACCESSIBLE CEILING OR WALL MOUNT IN MECHANICAL ROOM AT 8'-0" AFF.
12. IN UNFINISHED SPACES WITHOUT CEILINGS, WALL MOUNT POWER PACKS AND EMERGENCY TRANSFER/RELAY AT 8'-0" AFF.
13. PROVIDE A LAMACOID LABEL INDICATING "POWERPACK/EMERGENCY LIGHTING TRANSFER RELAY - (ROOM NAME & #)". LABEL SHALL BE PERMANENTLY MOUNTED TO THE CEILING GRID DIRECTLY BELOW DEVICE. 1/2" TALL WHITE LETTERS ON 1" BLACK LABEL.

LIGHTING	
<b>GENERAL NOTE</b> LIGHTING CONTROL RISERS SHOW TYPICAL CONNECTIONS BETWEEN DEVICES AND LIGHT FIXTURES. COORDINATE QUANTITY OF DEVICES, LIGHT FIXTURES, AND ZONES WITH FLOOR PLANS.	
SYMBOL	DESCRIPTION
⊘ <sup>A</sup>	ON/OFF
⊘ <sup>B</sup>	THREE BUTTON LOW-VOLTAGE SWITCH 1. ON/OFF, 2. RAISE, AND 3. LOWER
⊠ <sup>a</sup>	POWER PACK - 'a' SUBSCRIPT INDICATES ZONE
⊠ <sup>em</sup>	UL 924 LISTED EMERGENCY RELAY CONTROL LIGHT #PP16-(D/DS)-ER-EFP
⊠	LIGHT FIXTURE DRIVER. REFER TO LIGHT FIXTURE SCHEDULE - 'w' SUBSCRIPT INDICATES ZONE CONTROL.
⊠	RJ45 SPLITTER
⊠	DUAL TECHNOLOGY (PIR AND ULTRASONIC) OCCUPANCY SENSOR
⊠	DAYLIGHT SENSOR
---	2#18 DIMMING CONDUCTOR CABLE
---	CATEGORY 5E UTP NETWORK CABLE



- NOTES:**
1. COORDINATE ARCHITECTURAL COLOR AND FINISH WITH ARCHITECT PRIOR TO BID.
  2. VERIFY LENGTH PENDANT STEM KIT WITH FIXTURE LOCATION AND MOUNTING HEIGHT REQUIREMENTS PRIOR TO ORDERING.
  3. PROVIDE ALL-THREAD RODS AND UNISTRUT AS REQUIRED FOR MOUNTING. PROVIDE LENGTH OF SUPPORT AS REQUIRED.
  4. STATUS INDICATOR AND TEST SWITCH SHALL BE INTEGRAL TO FIXTURE.
  5. PROVIDE FUSING AT ACCESSIBLE LOCATION FOR EXTERIOR AND SITE LIGHTS.
  6. PROVIDE POLE LENGTH AS COORDINATED WITH THE HEIGHT OF THE CONCRETE POLE BASE. REFER TO POLE BASE DETAIL FOR ADDITIONAL REQUIREMENTS.
  7. REFER TO FLOOR PLANS FOR EXT SIGN DIRECTIONAL ARROWS.
  8. PROVIDE WITH MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED.
  9. COORDINATE FINAL LOCATIONS OF ALL FIXTURES IN MECHANICAL EQUIPMENT AREA WITH DUCTWORK, PIPING, AND OTHER TRADES. PROVIDE ADDITIONAL STRUCTURE FOR MOUNTING OF FIXTURE AS REQUIRED.
  10. WHERE LIGHTS CONFLICT WITH PIPING, DUCTWORK, STRUCTURE, EQUIPMENT, ETC. LOWER OR RAISE LIGHTS FROM STANDARD MOUNTING HEIGHT AS REQUIRED FOR PROPER LIGHT DISTRIBUTION AND TO MAINTAIN CLEARANCES. COORDINATE FINAL HEIGHTS WITH ARCHITECT, ENGINEER, AND ALL TRADES.



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KovertHawkins  
architects

Drawn: ZSD  
 Checked by: WCC  
 Project No.: 202002.01  
 Date: 03/13/2021  
 Revisions: 2  
 1  
 3  
 4  
 5  
 6

04/05/2021 ADDENDUM #1  
 SHROUT TATE MECHANICAL AND ELECTRICAL ENGINEERS  
 Lexington - Louisville  
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Salem Community Schools - 2021 FEMA Safe Room Additions  
**Salem High School (Volume 1)**  
 700 N. Harrison Street  
 Salem, Indiana

E501

LIGHT FIXTURE SCHEDULE



**GENERAL LIGHTING FIXTURE SCHEDULE NOTES**

1. PROVIDE INTERNAL QUICK DISCONNECTS FOR ALL INTERIOR LIGHT FIXTURE DRIVERS.
2. ALL RECESSED TROFFERS SHALL BE SUPPORTED AT EACH OF THE FOUR CORNERS.
3. ALL FIXTURES SHALL HAVE A FIVE-YEAR WARRANTY.
4. FINISHES FOR ALL FIXTURES SHALL BE COORDINATED WITH ENGINEER AND ARCHITECT DURING THE SHOP DRAWING SUBMITTAL PHASE.

FIXTURE TYPE	DESCRIPTION	LAMPS					VOLTS	MOUNTING TYPE	MANUFACTURER - MODEL NUMBER	NOTES	
		TYPE	CRI	DIMMING	COLOR TEMP	LUMENS					WATTS
A	2'x4' EDGE-LIT LED FLAT PANEL, RECESSED GRID, LENSED, 100-1% DIMMABLE 0-10V LED DRIVER, ALUMINUM FRAME WITH INTEGRATED WIRED DIMMING CONTROL.	LED	>80	0-10V, @ 1%	4000K	5119	45	MVOLT	RECESSED GRID	LITHONIA - EPANL 2'x4 4800LM 80CRI 40K MIN1 EZT MVOLT EATON EQUAL HUBBEL EQUAL	-
AE	SAME AS TYPE 'A' WITH BACKUP BATTERY/DRIVER	LED	>80	0-10V, @ 1%	4000K	5119	45	MVOLT	RECESSED GRID	LITHONIA - EPANL 2'x4 4800LM 80CRI 40K MIN1 EZT MVOLT E10WCP EATON EQUAL HUBBEL EQUAL	2
B	2'x2' EDGE-LIT LED FLAT PANEL, RECESSED GRID, LENSED, 100-1% DIMMABLE 0-10V LED DRIVER, ALUMINUM FRAME WITH INTEGRATED WIRED DIMMING CONTROL.	LED	>80	0-10V, @ 1%	4000K	4121	37	MVOLT	RECESSED GRID	LITHONIA - EPANL 2'x2 4000LM 80CRI 40K MIN1 EZT MVOLT EATON EQUAL HUBBEL EQUAL	-
F	4' LED STRIP WITH ACRYLIC LENS, COLD-ROLLED STEEL CHANNEL AND COVER, 100-1% DIMMABLE 0-10V LED DRIVER, PROVIDE WITH WIREGUARD.	LED	>80	0-10V, @ 1%	4000K	4701	35	MVOLT	SUSPENDED @ 12'-0" AFF TO BOTTOM OF FIXTURE OR AS NOTED	LITHONIA - CLX L48 5000LM SEF FDL MVOLT G210 40K 80CRI EATON EQUAL HUBBEL EQUAL	1,6,7
OL1	QUARTER SPHERE LED WALL SCONCE, DIE-CAST ALUMINUM HOUSING WITH SOLID SILICONE DOOR GASKET, WEATHERING RESISTANT POWDER COATING.	LED	>80	-	4000K	3139	29	MVOLT	WALL @ 10'-8" AFF TO BOTTOM OF FIXTURE	LITHONIA - WSQ P2 40K SR2 MVOLT DBL BXD EATON EQUAL HUBBEL EQUAL	3
OL2	LOW VOLTAGE LED DOWNLIGHT, RECESSED CANOPY, DIMMABLE 0-10V LED DRIVER, HYPERBOLIC DISTRIBUTION, WET LOCATION LISTED.	LED	>80	0-10V, @ 1%	4000K	4053	42	MVOLT	RECESSED CANOPY	LITHONIA - LPM S W 3 R MVOLT EL N SD EATON EQUAL HUBBEL EQUAL	3,5
X1	SINGLE-FACED LOW-VOLTAGE EXT SIGN, ENGINEERING-GRADE THERMOPLASTIC UNBODY HOUSING, HOUSING SNAPS TOGETHER WITH NO ADDITIONAL FASTENERS ALONG WITH FACEPLATES.	LED	-	-	-	-	-	MVOLT	UNIVERSAL MOUNTING	LITHONIA - LQM S W 3 R MVOLT EATON EQUAL HUBBEL EQUAL	4
X2	SAME AS TYPE 'X1' WITH BATTERY/DRIVER	LED	-	-	-	-	-	MVOLT	UNIVERSAL MOUNTING	LITHONIA - LQM S W 3 R MVOLT EL N SD EATON EQUAL HUBBEL EQUAL	2,4
X3	SAME AS TYPE 'X1' BUT DOUBLE-SIDED	LED	-	-	-	-	-	MVOLT	UNIVERSAL MOUNTING	LITHONIA - LQM S W 3 R MVOLT EATON EQUAL HUBBEL EQUAL	4
X4	SAME AS TYPE 'X3' WITH BATTERY/DRIVER	LED	-	-	-	-	-	MVOLT	UNIVERSAL MOUNTING	LITHONIA - LQM S W 3 R MVOLT EL N SD EATON EQUAL HUBBEL EQUAL	2,4

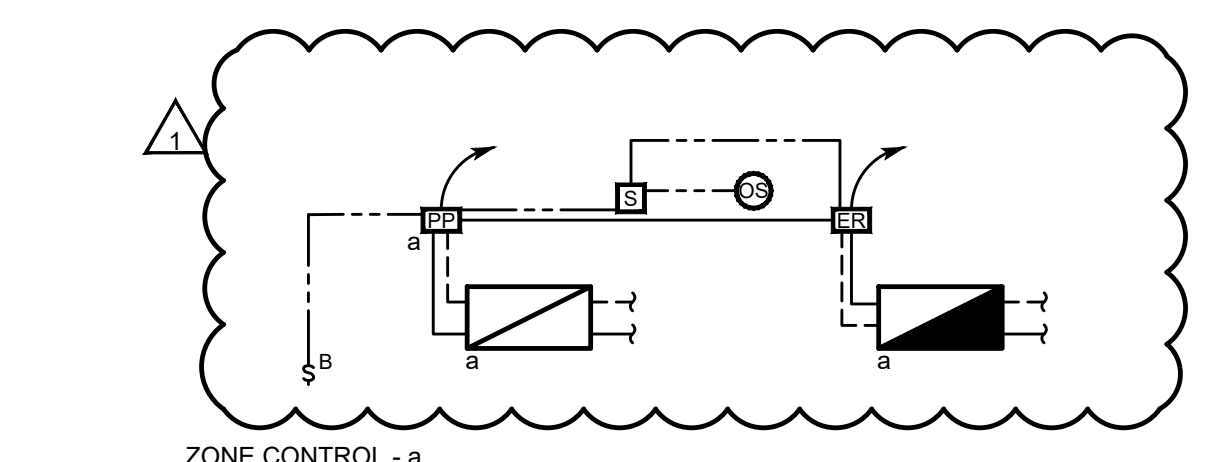
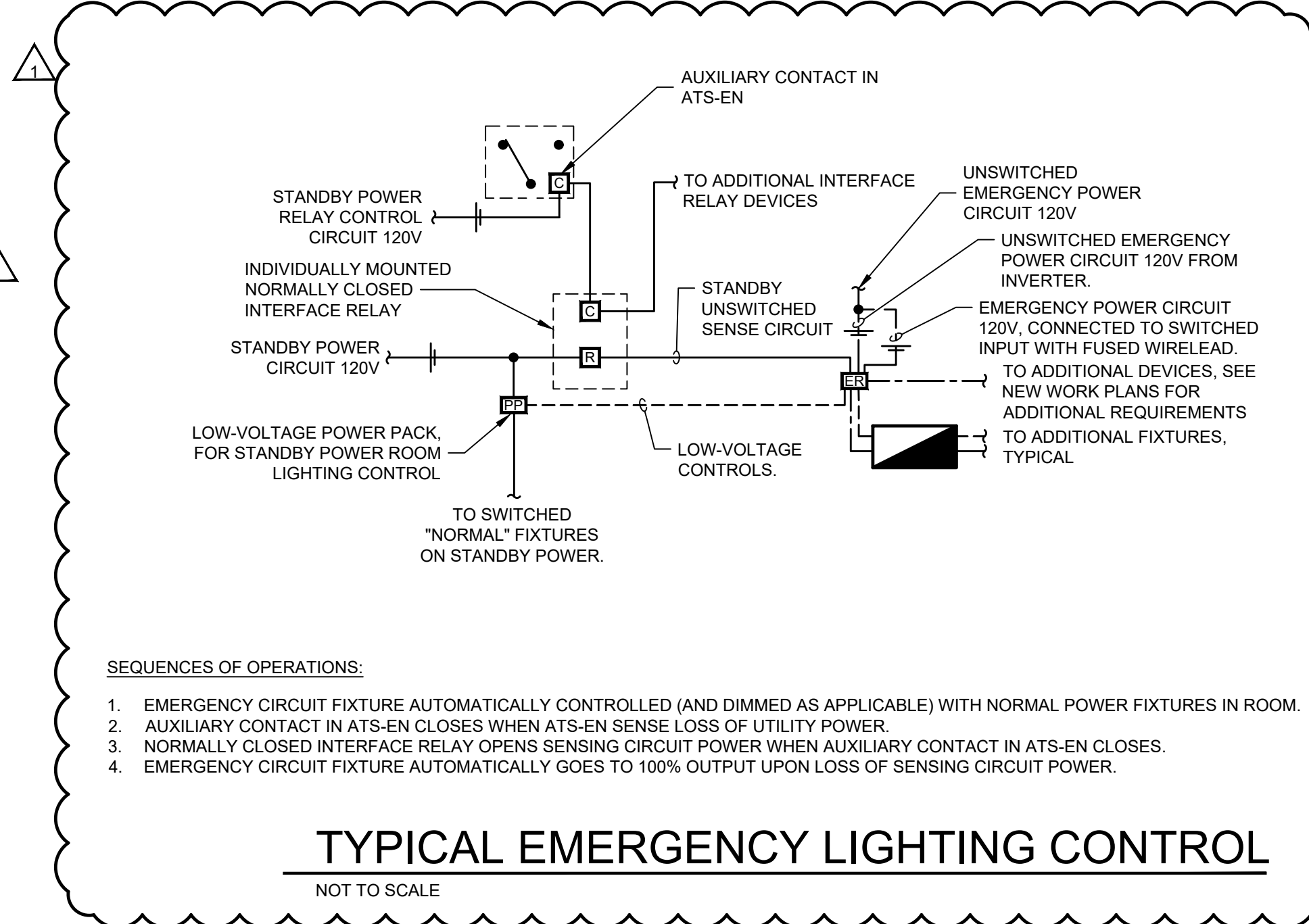
- NOTES:**
1. PROVIDE ALL THROUGH RODS AND UNISTRUT AS REQUIRED FOR MOUNTING. PROVIDE LENGTH OF SUPPORT AS REQUIRED.
  2. STATUS INDICATOR AND TEST SWITCH SHALL BE INTEGRAL TO FIXTURE.
  3. PROVIDE FUSING AT ACCESSIBLE LOCATION FOR EXTERIOR AND SITE LIGHTS.
  4. REFER TO FLOOR PLANS FOR EXIT SIGN DIRECTIONAL ARROWS.
  5. INSTALL CONDUITS WITHIN CANOPY AND SUPPORT FROM STRUCTURE ABOVE. PROVIDE JUNCTION BOX AT EACH LIGHT FIXTURE AND TURN CONDUIT DOWN DIRECTLY ABOVE EACH LIGHT FIXTURE. NO OTHER BOXES ARE ALLOWED. ALL BOXES SHALL BE ACCESSIBLE FROM BELOW.
  6. COORDINATE FINAL LOCATIONS OF ALL FIXTURES IN MECHANICAL EQUIPMENT AREA WITH DUCTWORK, PIPING, AND OTHER TRADES. PROVIDE ADDITIONAL STRUCTURE FOR MOUNTING OF FIXTURE AS REQUIRED.
  7. WHERE LIGHTS CONFLICT WITH PIPING, DUCTWORK, STRUCTURE, EQUIPMENT, ETC. LOWER OR RAISE LIGHTS FROM STANDARD MOUNTING HEIGHT AS REQUIRED FOR PROPER LIGHT DISTRIBUTION AND TO MAINTAIN CLEARANCES. COORDINATE FINAL HEIGHTS WITH ARCHITECT, ENGINEER, AND ALL TRADES.

**LIGHTING**

SYMBOL	DESCRIPTION
\$ <sup>A</sup>	ON/OFF
\$ <sup>B</sup>	THREE BUTTON LOW-VOLTAGE SWITCH 1. ON/OFF, 2. RAISE, AND 3. LOWER
Ⓜ	POWER PACK - 's' SUBSCRIPT INDICATES ZONE
Ⓜ	UL 924 LISTED EMERGENCY RELAY CONTROL nLIGHT #nPP16-(D/D/S)-ER-EFP
Ⓜ	LIGHT FIXTURE DRIVER. REFER TO LIGHT FIXTURE SCHEDULE - 's' SUBSCRIPT INDICATES ZONE CONTROL.
Ⓜ	RJ45 SPLITTER
Ⓜ	DUAL TECHNOLOGY (PIR AND ULTRASONIC) OCCUPANCY SENSOR
Ⓜ	DAYLIGHT SENSOR
---	2#18 DIMMING CONDUCTOR CABLE
---	CATEGORY 5E UTP NETWORK CABLE
---	EMERGENCY POWER INVERTER WRING.

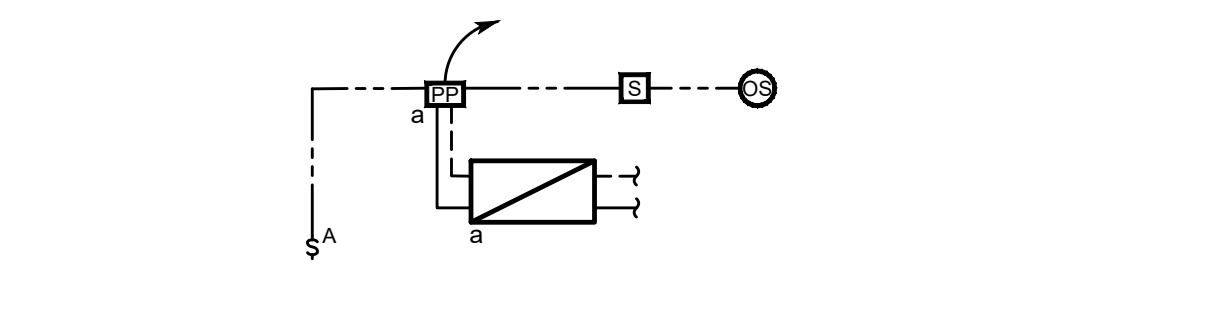
**GENERAL LIGHTING CONTROLS NOTES**

1. ALL LOW-VOLTAGE LIGHTING CONTROLS CABLING SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. PROVIDE AUXILIARY POWER PACK PER CONTROL ZONE AND CAT5e CABLING CONNECTION FROM ROOM CONTROLLER/RELAY POWER PACK FOR TEMPERATURE CONTROLS CABLING CONNECTIONS. DEVICES AND CABLING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR WITH THE EXCEPTION OF THE CONNECTION BETWEEN THE AUXILIARY POWER PACK AND THE TEMPERATURE CONTROLS SYSTEM. COORDINATE ALL REQUIREMENTS WITH TCC AS REQUIRED.
3. PROVIDE ADDITIONAL 25 FEET OF CONTROLS CABLING COILED UP ABOVE CEILING AT EACH OCCUPANCY AND DAYLIGHT SENSOR.
4. WALL STATION BUTTONS SHALL BE PROVIDED WITH CUSTOM ENGRAVED LABELS. EXAMPLE: "ON/OFF", "UP ARROW", "VERIFY ENGRAVING WITH OWNER/ENGINEER PRIOR TO RELEASE OF SHOP DRAWINGS."
5. WHERE MULTIPLE CONTROL ZONES ARE PRESENT IN SINGLE ROOM/AREA, PROVIDE ENGRAVING ON THE SWITCH INDICATING ZONE BEING SERVED. EXAMPLE: "CHECKOUT DESK", "CLASSROOM AREA". VERIFY ENGRAVING WITH OWNER/ENGINEER PRIOR TO RELEASE OF SHOP DRAWINGS. POWER PACKS SHALL BE LABELED WITH CORRESPONDING LETTERING ON PERMANENT LAMACOID LABELS.
6. PROVIDE MOUNTING BRACKETS AND ADDITIONAL SUPPORTS, HARDWARE, ETC. FOR CEILING MOUNTED SENSORS. DEVICES SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS. SUPPORTING DEVICES BY THE CEILING TILE OR GRID IS NOT PERMITTED.
7. THE DETECTION OF OCCUPANCY BY ONE OCCUPANCY SENSOR SHALL ENABLE ALL LIGHTS WITHIN THAT CONTROL ZONE TO OPERATE. CONNECT OCCUPANCY SENSORS TOGETHER AS REQUIRED FOR THIS FUNCTION.
8. FOR EMERGENCY RELAYS, PROVIDE PERMANENT WARNING LABEL ON EMERGENCY LIGHT FIXTURES AND DRIVER COVERS NOTING TWO SEPARATE CIRCUITS ARE PRESENT AT EACH FIXTURE.
9. INDICATE ALL POWER PACK AND EMERGENCY TRANSFER/RELAY LOCATIONS ON AS-BUILT DRAWINGS.
10. IN FINISHED SPACES, INSTALL POWER PACKS AND EMERGENCY TRANSFER/RELAY DEVICES ABOVE ACCESSIBLE CEILING (UNLESS OTHERWISE NOTED). INSTALL DIRECTLY ABOVE SWITCH LOCATIONS WHERE POSSIBLE.
11. IN FINISHED AREAS WITHOUT CEILINGS, INSTALL POWER PACKS AND EMERGENCY TRANSFER/RELAY DEVICES IN ADJACENT SPACE WITH ACCESSIBLE CEILING OR WALL MOUNT IN MECHANICAL ROOM AT 8'-0" AFF.
12. IN UNFINISHED SPACES WITHOUT CEILINGS, WALL MOUNT POWER PACKS AND EMERGENCY TRANSFER/RELAY AT 8'-0" AFF.
13. PROVIDE A LAMACOID LABEL INDICATING "POWERPACK/EMERGENCY LIGHTING TRANSFER RELAY - (ROOM NAME & #)". LABEL SHALL BE PERMANENTLY MOUNTED TO THE CEILING GRID DIRECTLY BELOW DEVICE. 1/2" TALL WHITE LETTERS ON 1" BLACK LABEL.



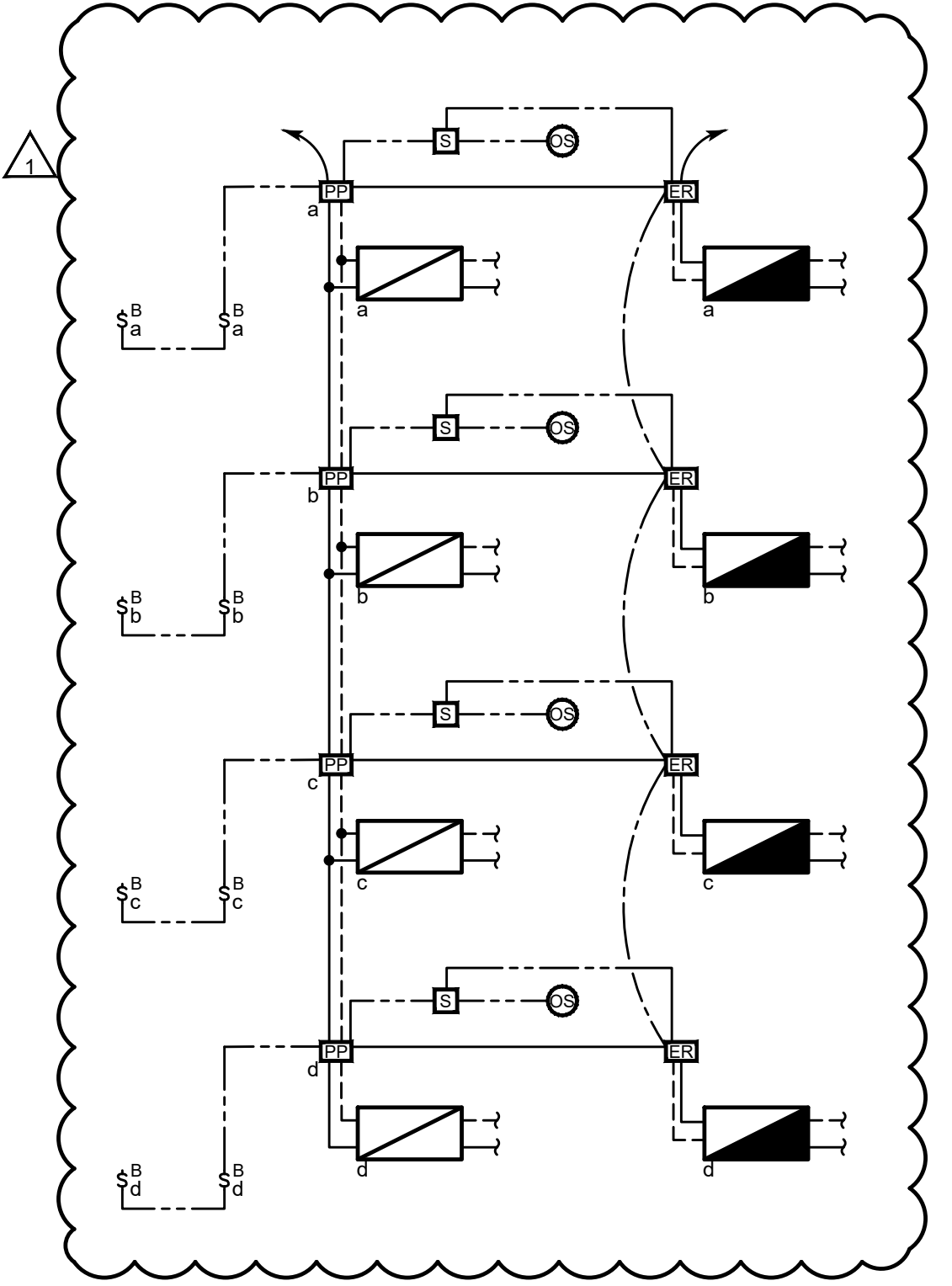
- ZONE CONTROL - a**
1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
  2. MANUAL RAISE/LOWER BY SWITCH.
  3. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.
  4. REFER TO EMERGENCY LIGHTING TRANSFER SWITCH DETAIL FOR ADDITIONAL REQUIREMENTS.

**LC-01**



- ZONE CONTROL - a**
1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
  2. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.

**LC-02**



**LC-03**

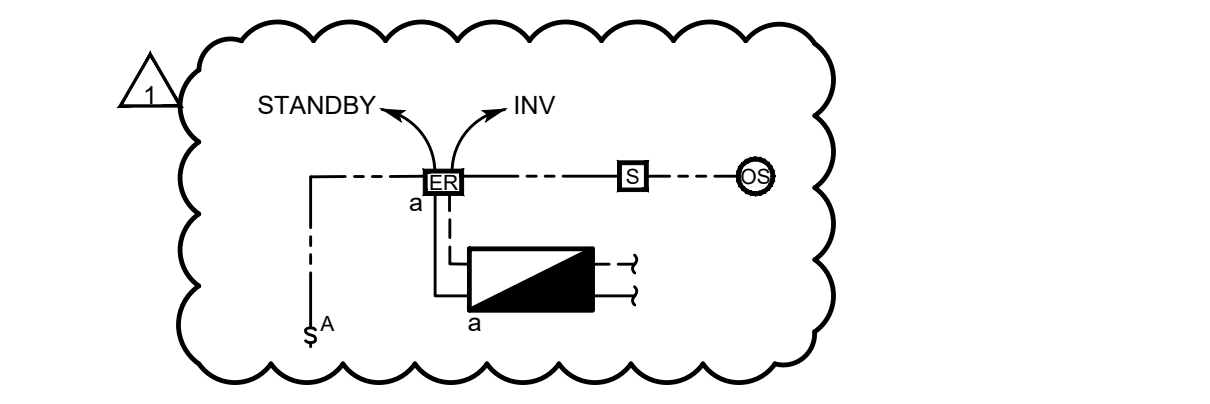
- ZONE CONTROL - a**
1. MANUAL ON/OFF BY SWITCHES WHEN OCCUPANCY DETECTED.
  2. MANUAL RAISE/LOWER BY SWITCHES.
  3. REFER TO EMERGENCY LIGHTING TRANSFER SWITCH DETAIL FOR ADDITIONAL REQUIREMENTS.

- ZONE CONTROL - b**
1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
  2. MANUAL RAISE/LOWER BY SWITCH.
  3. REFER TO EMERGENCY LIGHTING TRANSFER SWITCH DETAIL FOR ADDITIONAL REQUIREMENTS.

- ZONE CONTROL - c**
1. MANUAL ON/OFF BY SWITCHES WHEN OCCUPANCY DETECTED.
  2. MANUAL RAISE/LOWER BY SWITCH.
  3. REFER TO EMERGENCY LIGHTING TRANSFER SWITCH DETAIL FOR ADDITIONAL REQUIREMENTS.

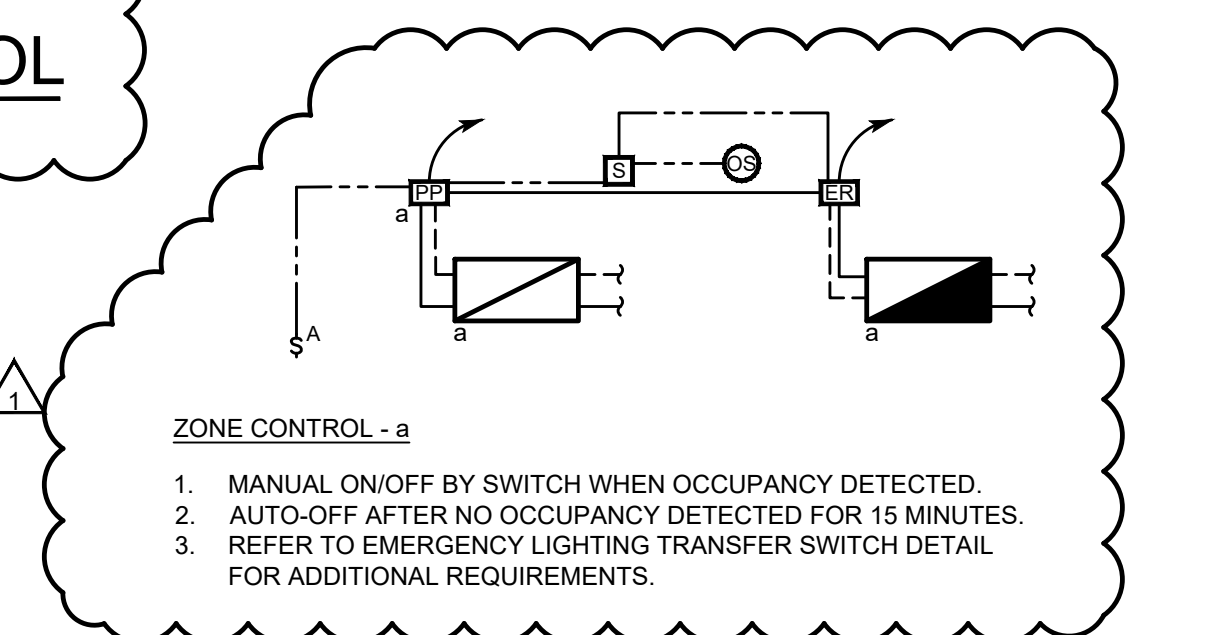
- ZONE CONTROL - d**
1. MANUAL ON/OFF BY SWITCHES WHEN OCCUPANCY DETECTED.
  2. MANUAL RAISE/LOWER BY SWITCH.
  3. REFER TO EMERGENCY LIGHTING TRANSFER SWITCH DETAIL FOR ADDITIONAL REQUIREMENTS.

- ALL CONTROL ZONES**
1. ALL OCCUPANCY SENSORS WITHIN THIS ROOM SHALL CONTROL EACH ZONE AS DESCRIBED ABOVE.
  2. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.



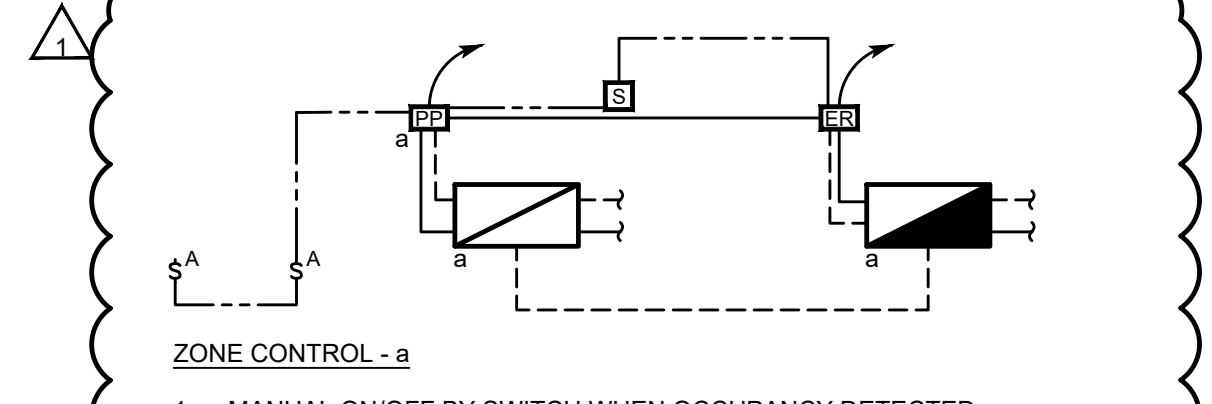
- ZONE CONTROL - a**
1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
  2. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.

**LC-04**



- ZONE CONTROL - a**
1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
  2. AUTO-OFF AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.
  3. REFER TO EMERGENCY LIGHTING TRANSFER SWITCH DETAIL FOR ADDITIONAL REQUIREMENTS.

**LC-05**



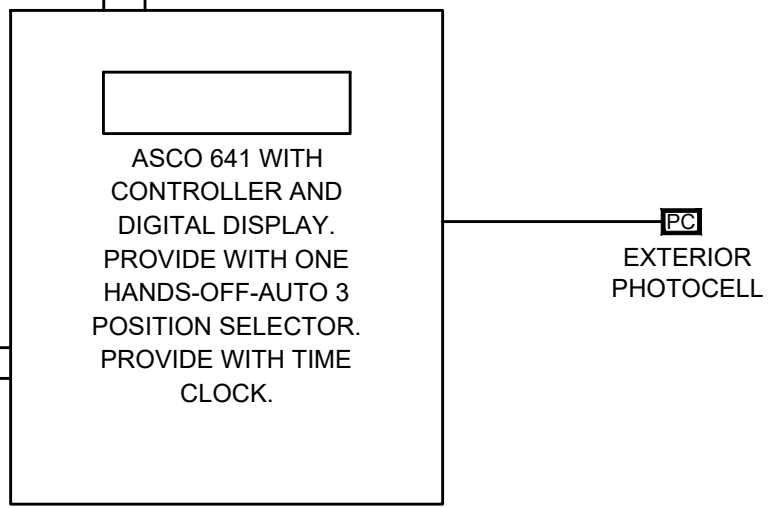
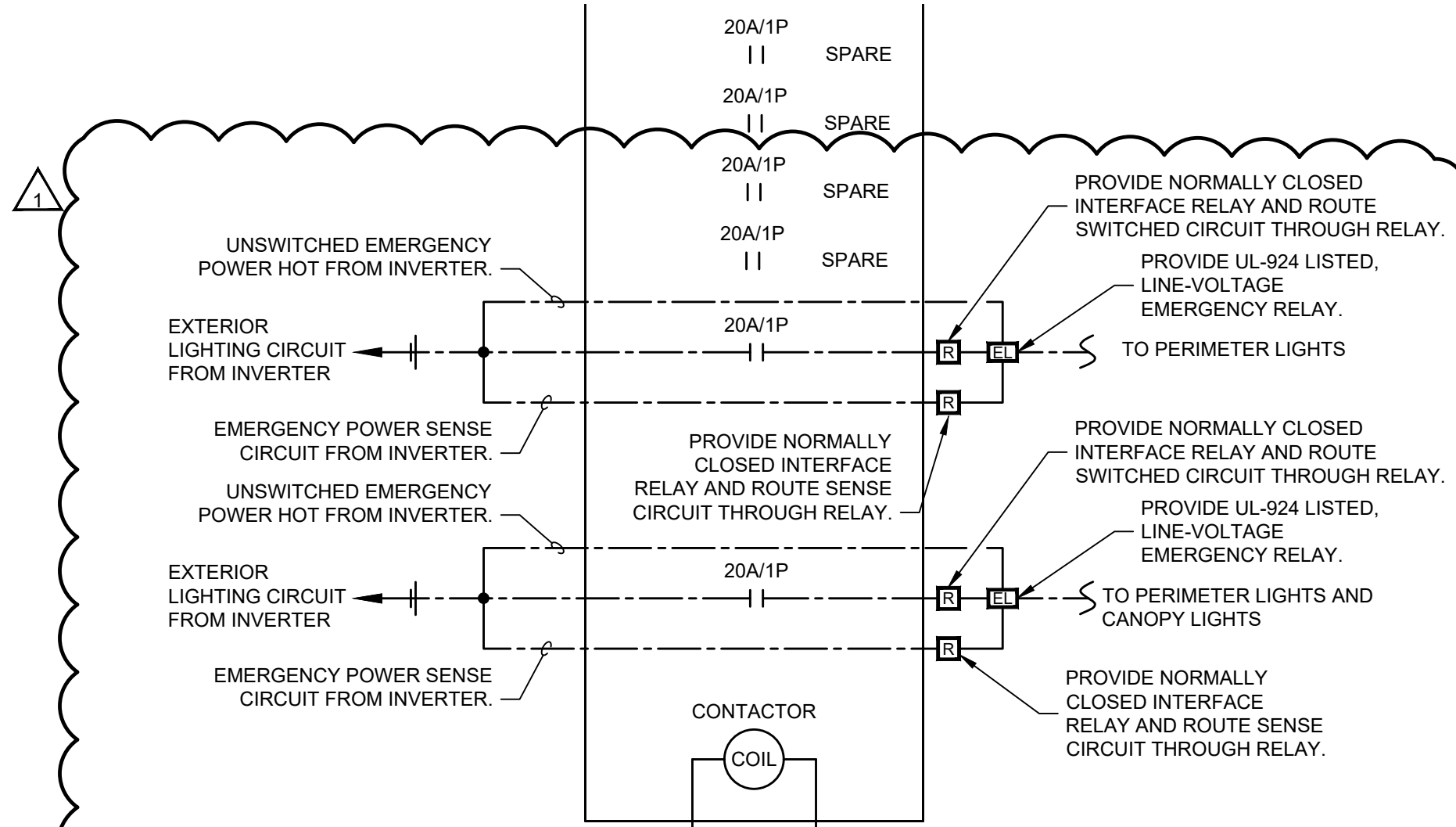
- ZONE CONTROL - a**
1. MANUAL ON/OFF BY SWITCH WHEN OCCUPANCY DETECTED.
  2. REFER TO EMERGENCY LIGHTING TRANSFER SWITCH DETAIL FOR ADDITIONAL REQUIREMENTS.

**LC-06**

Drawn	AT
Created By	WC
Project No.	202020.02
Date	04/05/2021
Revision	2
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Certified By	

## EXTERIOR LIGHTING CONTROL NOTES:

- A. ALL COMPONENTS SHALL BE INSTALLED IN A NEMA-1 ENCLOSURE AS INDICATED ON THE FLOOR PLANS.
- B. CONTROLLER SHALL BE 366 DAY, WITH MINIMUM OF TWO CIRCUITS. PROVIDE ONE CIRCUIT PER CONTACTOR FOR SEPARATE CONTROLS: INTERMATIC # ET90215CE OR EQUAL.
- C. PHOTOCELL SHALL HAVE NORTH FACING EXPOSURE AND SHALL BE PROVIDED A WEATHER HEAD. CONTRACTOR SHALL FIELD VERIFY BEST LOCATION OUTSIDE OF UTILITY B106. INTERMATIC #K4100 OR EQUAL.
- D. ALL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF 10 HOURS MINIMUM.
- E. EXTERIOR LIGHTING CONTROL TIMECLOCKS SHALL BE ASTRONOMICAL 7-DAY WEEK PROGRAMMABLE WITH PHOTOCELL OVERRIDE INPUT (TORK, OR EQUAL).
- F. CONTRACTOR TO PROGRAM TIMECLOCK PER OWNER REQUIREMENTS.
- G. CONTRACTOR TO PROVIDE TIMECLOCK PROGRAMMING TRAINING.
- H. CONTRACTOR SHALL ADD CONTACTORS AS NEEDED TO PROVIDE CONTROL TO ALL EXTERIOR LIGHTING CIRCUITS.
- I. ACTIVATION OF 7-DAY TIMECLOCK AND EXTERIOR PHOTOCELL SHALL AUTOMATICALLY TURN ON LIGHTS.
- J. IN THE EVENT THAT NORMAL POWER IS LOST, THE EMERGENCY POWER SHALL BE PROVIDED STRICTLY BY THE INVERTER BYPASSING CONTACTORS.



## EXTERIOR LIGHTING CONTROL DIAGRAM - "LCC-EXT"

NOT TO SCALE