



HCCSC Salamonie HVAC Replacement and Renovation

Project # 10-08-2024

2024.0002

ADDENDUM NO. 02

This addendum is issued as a supplement to the plans and specifications and shall be considered an integral part of the same. Acknowledgement of receipt of this addendum is required on the Bid Form.

Item: G-2.1 Location: General

Description: Incorporate the Pre-Bid Meeting Minutes held 09-27-2024 and issued 09-30-2024 into the

contract documents.

Item: G-2.2

Location: Mechanical and Electrical

Description: Incorporate the Addendum 2 items from SCO Mechanical and Electrical, see attached.

Item: A-2.1

Location: Specifications

Description: Delete the following specifications from the Project Manual:

• Section 220800 Commissioning of Plumbing

Section 260800 Commissioning of Electrical Systems

Only Commissioning of Mechanical Remains

Item: A-2.2

Location: Specifications

Description: Add the following specification section to the Project Manual:

Section 090190.52 – MAINTENANCE REPAINTING

Item: A-2.3

Location: Specifications

Description: Revise the following Section 000110 – Table of Contents:

Add to list: Section 090190.52 – MAINTENANCE REPAINTING

Item: A-2.4

Location: Specifications

Description: Revise the following Section 000115 – Index of Working Drawings:

 Change Drawing Name from "A3.0 – ENLARGED PLANS AND DETAILS – ALTERNATES" to "A3.0 ENLARGED PLAN DETAILS AND ELEVATIONS ADD2

Item: A-2.5 Location: Drawings

Description: Delete original Drawing dated 9-24-2024 & replace Drawing with revision date 10-08-2024:

• D2.4 DEMOLITION ROOF PLAN – PHASES 1-3 ADD2

Item: A-2.6 Location: Drawings

Description: Delete original Drawing dated 9-24-2024 & replace Drawing with revision date 10-08-2024:

- Change Drawing Name from "A3.0 ENLARGED PLANS AND DETAILS ALTERNATES" to "A3.0 ENLARGED PLAN DETAILS AND ELEVATIONS ADD2".
- Drawing Sheet A3.0, Add Penthouse Elevations, details 6, 7 & 8 with notes for Exterior Painting of Metal Siding system of Penthouse, Color PT-3.
- PT-3: See Section 090190.52, Architect to Select from Manufacturer's standard range.

Contractor Questions and Responses

Q1: Can you tell me if there is a roof warranty we will need to maintain for our equipment?

A1: Yes. See Section 075323, EPDM Roofing, Part 1.7.

Q2: Note #4 refers to relief air dampers, no relief air ducts are shown on the plans.

A2: See revised mechanical drawings in Addendum no. 2.

Q3: On north end of Penthouse there are 2 ducts 40/14 which comes out of the floor with elbows and go to what?

A3: See revised mechanical drawings in Addendum no. 2.

Q4: MZ-6 supply duct are misaligned, or something.

A4: See revised mechanical drawings in Addendum no. 2.

Q5: RF-6 is ducted to the outside air duct and not connected to the return and no control dampers are shown.

A5: See revised mechanical drawings in Addendum no. 2.

Q6: On Units MZ-5, MZ-7 it appears that the return duct ties into the outside air duct, but no control dampers?

A6: See revised mechanical drawings in Addendum no. 2.

Q7: EF A10 fan draws from the floor below is connected to the louver and to the return duct. Is that correct?

A7: Correct, Damper locations to be issued in Addendum #2.

Q8: MZ-3 the return duct from the fan to the unit is turned (I believe) the wrong direction and goes nowhere. No control dampers.

A8: See revised mechanical drawings in Addendum no. 2.

Q9: MZ-2 The return above the unit appears to be a tee, one end is open to the penthouse with a control damper the other has a damper and ties into the system. However, the OA does not have a damper on it.

A9: See revised mechanical drawings in Addendum no. 2.

Q10: On the southwest corner there are 8 supply ducts thru the floor but not connected to a unit.

A10: See revised mechanical drawings in Addendum no. 2.

Q11: EF A3 fan draws from the floor below is connected to the louver and to the return duct. Is that correct?

A11: Correct. Damper locations to be issued on the revised mechanical drawings in Addendum no. 2.

Q12: EF A4 fan has no discharge duct. The duct thru the floor is not sized.

A12: The discharge connects to the wall louver. See revised mechanical drawings in Addendum no. 2.

Q13: On the north end the MZ-1 is to be RF-1, not labeled?

A13: Correct. See revised mechanical drawings in Addendum no. 2.

Q14: Are the multi-fan MZUs coming with overloads (from the manufacturer) for each fan included?

A14: Overload protection is through the VFDs.

Q15: Should there be boiler / emergency shutdown buttons and CO monitoring tied into the Fire Alarm system in the Boiler Room?

A15: Emergency shutdown control provided and installed by the E.C. Refer to sheet E1.1. The CO sensors will be included in Addendum no. 2 drawings.

Q16: Should there be a Refrigerant Monitor in the Boiler Room with horn/strobes at each entry?

A16: Refrigerant type and quantity does not require monitoring.



Addendum

6534 Constitution Drive Fort Wayne, IN 46804 (260) 436-9213 fax (260) 432-5481

ADDENDUM NO. 2

DATE: October 8, 2024

PROJECT: Salamonie School HVAC Replacement and

Renovation

COMMISSION NO. **SCO** Engineering, LLC – 242737

The Contractor shall incorporate, into the Contract Documents and into his bid, the following changes and/or clarifications to the Drawings, Specifications and Scope of Work.

Item: M-2.1

Location: Specification: Section 230993 – Sequence of Operations for HVAC Controls

Description: Add: Specification section added.

Item: M-2.2

Location: Mechanical Drawings: MD1.1

Description: Revision: Revise the gas piping on the mechanical demolition plan – phase 1 as shown

on attached revised sheet MD1.1.

Item: M-2.3

Location: Mechanical Drawings: M1.1

Description: Revision: Revise the gas piping and pump VFD locations on the mechanical plan – phase

1 as shown on attached revised sheet M1.1.

Item: M-2.4

Location: Mechanical Drawings: M1.5

Description: Revision: Revise the mechanical HVAC – Penthouse plan as shown on attached revised

sheet M1.5.

Item: E-2.1

Location: Electrical Drawing: ED1.1

Description: Revision: Revise the Electrical Demolition Base Bid – Phase 1 plan as shown on

attached revised sheet ED1.1.

Item: E-2.2

Location: Electrical Drawing: ED1.7

Description: Revision: Add Electrical Demolition Plan Note #9 as shown on attached revised sheet

ED1.7.

Item: E-2.3

Location: Electrical Drawing: ED1.8

Description: Revision: Revise Electrical Demolition Plan Notes as shown on attached revised sheet

ED1.8.

Item: E-2.4

Location: Electrical Drawing: ED1.9

Description: Revision: Referring to Electrical Demolition Plan Note #2, new Panel 'MZ' is shown on

sheet E1.2.

Salamonie School HVAC Replacement and Renovation Commission No. 242737 Addendum No. 2 October 8, 2024 Page 2

Item: E-2.5

Location: Electrical Drawing: E1.1

Description: Revision: Revise Electrical Power Plan Base Bid – Phase 1 as shown on attached

revised sheet E1.1.

Item: E-2.6

Location: Electrical Drawing: E1.4

Description: Revision: Revise Electrical Power Plan - Penthouse as shown on attached revised sheet

E1.4.

Item: E-2.7

Location: Electrical Drawing: E2.2

Description: Revision: The south two light fixtures on the east face of the building shall be type W01.

Item: E-2.8

Location: Electrical Drawing: E2.3

Description: Revision: Revise Electrical Lighting Plan – Alternate 3 & 6 as shown on attached revised

sheet E2.3.

Item: E-2.9

Location: Electrical Drawing: E2.5

Description: Revision: Revise Penthouse Electrical Lighting Plan as shown on attached revised sheet

E2.5.

Item: E-2.10

Location: Electrical Drawing: E5.1

Description: Revision: Revised Electrical Riser Diagram to add a disconnect up-stream of

transformer T-1G as shown on attached revised sheet E5.1. Note that this disconnect is

to be installed next to transformer T-1G.

END OF ADDENDUM NO. 2

SECTION 000110 - TABLE OF CONTENTS

DIVISION 0 PROCUREMENT AND CONTACTING REQUIREMENTS

SECTION 000110 - TABLE OF CONTENTS

SECTION 000115 - INDEX OF WORKING DRAWINGS

SECTION 001116 - INVITATION TO BID

SECTION 002113 - INSTRUCTIONS TO BIDDERS

SECTION 002213 - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

SECTION 004100 - PROCUREMENT FORMS AND SUPPLEMENTS

SECTION 004110 - BID FORM

SECTION 004393 - BID SUBMITTAL CHECKLIST

SECTION 005200 - THE AGREEMENT

SECTION 006000 - PROJECT FORMS

SECTION 007200 - GENERAL CONDITIONS

SECTION 007300 - SUPPLEMENTARY CONDITIONS

SECTION 007375 - INDIANA - COMMON WAGE ACT

SECTION 007400 - CONTRACTOR CHECKLIST

SECTION 009000 - REVISIONS CLARIFICATIONS AND MODIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 011000 - SUMMARY

SECTION 012000 - PRICE AND PAYMENT PROCEDURES

SECTION 012100 - ALLOWANCES

SECTION 012300 - ALTERNATES

SECTION 013000 - ADMINISTRATIVE REQUIREMENTS

SECTION 013216 - CONSTRUCTION PROGRESS SCHEDULE

SECTION 013300 - SUBMITTAL PROCEDURES

SECTION 014000 - QUALITY REQUIREMENTS

SECTION 014200 - REFERENCES

SECTION 016000 - PRODUCT REQUIREMENTS

SECTION 017300 - EXECUTION REQUIREMENTS

SECTION 017329 - CUTTING AND PATCHING

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT & DISPOSAL

SECTION 017700 - CLOSEOUT PROCEDURES

SECTION 017823 - OPERATION AND MAINTENANCE DATA

SECTION 017839 - PROJECT RECORD DOCUMENTS

SECTION 019113 - GENERAL COMMISSIONING REQUIREMENTS

DIVISION 2 – EXISTING CONDITIONS

SECTION 024119 – SELECTIVE DEMOLITION
SECTION 028211 – ASBESTOS ASSESSMENT REPORT

DIVISION 3 - CONCRETE

SECTION 033000 - CAST IN PLACE CONCRETE SECTION 035114 - CEMENTITIOUS ROOF DECK

DIVISION 4 - MASONRY

SECTION 042200 - CONCRETE UNIT MASONRY

DIVISION 5 - METALS

SECTION 051200 - STRUCTURAL STEEL FRAMING SECTION 054000 - COLD FORMED METAL FRAMING

DIVISION 6 - WOOD AND PLASTICS

SECTION 061000 - ROUGH CARPENTRY SECTION 061600 - SHEATHING

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 072100 - THERMAL INSULATION

SECTION 072600 - VAPOR RETARDERS

SECTION 072700 - AIR INFILTRATION BARRIERS

SECTION 074200 - METAL PANEL SYSTEM

SECTION 075323 - EPDM ROOFING SYSTEM

SECTION 076200 - SHEET METAL FLASHING AND TRIM

SECTION 077100 - ROOF SPECIALTIES

SECTION 079200 - JOINT SEALANTS

DIVISION 8 – OPENINGS

SECTION 081116 - ALUMINUM ENTRY DOORS

SECTION 081213 - HOLLOW METAL FRAMES

SECTION 081405 - COMMERCIAL WOOD DOORS

SECTION 087100 - DOOR HARDWARE

SECTION 088000 - GLAZING

DIVISION 9 - FINISHES

SECTION 09190.52 - MAINTENANCE REPAINTING

SECTION 092900 - GYPSUM BOARD

SECTION 095123 - ACOUSTICAL TILE CEILING

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

SECTION 096723 - EPOXY FLOORING

SECTION 099123 - INTERIOR PAINTING

DIVISION 22 - PLUMBING

SECTION 220500 - COMMON WORK RESULTS FOR PLUMBING

SECTION 220517 - SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING

SECTION 220518 - ESCUTCHEONS FOR PLUMBING PIPING

SECTION 220523.12 - BALL VALVES FOR PLUMBING PIPING

SECTION 220529 - HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

SECTION 220553 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT

SECTION 220719 - PLUMBING PIPING INSULATION

SECTION 220800 - COMMISSIONING OF PLUMBING

SECTION 221116 - DOMESTIC WATER PIPING

SECTION 221119 - DOMESTIC WATER PIPING SPECIALTIES

SECTION 221316 - SANITARY WASTE AND VENT PIPING

SECTION 221319 - SANITARY WASTE PIPING SPECIALTIES

SECTION 224000 - PLUMBING FIXTURES

DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING

SECTION 230500 - COMMON WORK RESULTS FOR HVAC

SECTION 230513 - COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT

SECTION 230518 - ESCUTCHEONS FOR HVAC PIPING

SECTION 230519 - METERS AND GAGES FOR HVAC PIPING

SECTION 230523 - GENERAL-DUTY VALVES FOR HVAC PIPING

SECTION 230529 - HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT

SECTION 230553 - IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

SECTION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

SECTION 230713 - DUCT INSULATION

SECTION 230716 - HVAC EQUIPMENT INSULATION

SECTION 230719 - HVAC PIPING INSULATION

SECTION 230800 - COMMISSIONING OF HVAC

SECTION 230900 - BAS INSTRUMENTATION AND CONTROL

SECTION 230913 - BAS INSTRUMENTATION AND CONTROL DEVICES

SECTION 230913.13 - BAS ACTUATORS AND OPERATORS

SECTION 230913.23 - BAS SENSORS AND TRANSMITTERS

SECTION 230913.33 - BAS CONTROL VALVES

SECTION 230913.43 - BAS CONTROL DAMPERS

SECTION 230923 - BAS DIRECT DIGITAL CONTROL SYSTEM

SECTION 230993 - SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

SECTION 231123 - FACILITY NATURAL-GAS PIPING

SECTION 232113 - HYDRONIC PIPING

SECTION 232116 - HYDRONIC PIPING SPECIALTIES

SECTION 232123 - HYDRONIC PUMPS

SECTION 233113 - METAL DUCTS

SECTION 233300 - AIR DUCT ACCESSORIES

SECTION 233413 - AXIAL HVAC FANS

SECTION 233423 - HVAC POWER VENTILATORS

SECTION 233713 - DIFFUSERS, REGISTERS, AND GRILLES

SECTION 233723 - HVAC GRAVITY VENTILATORS

SECTION 235216 - CONDENSING BOILERS

SECTION 236426.13 - AIR-COOLED, ROTARY-SCREW WATER CHILLERS

SECTION 237313 - MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNITS

SECTION 237413 - PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS

SECTION 238239.16 -PROPELLER UNIT HEATERS

DIVISION 26 - ELECTRICAL

SECTION 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL

SECTION 26 05 19 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

SECTION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

SECTION 26 05 33 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

SECTION 26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

SECTION 26 08 00 - COMMISSIONING OF ELECTRICAL SYSTEMS

SECTION 26 24 16 - PANELBOARDS

SECTION 26 27 26 - WIRING DEVICES

SECTION 26 28 13 - FUSES

SECTION 26 28 16 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

SECTION 26 29 13 - ENCLOSED CONTROLLERS

SECTION 26 51 00 - INTERIOR LIGHTING

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

SECTION 28 05 13 - CONDUCTORS & CABLES FOR ELECTRONIC SAFETY & SECURITY

SECTION 28 05 28 - PATHWAYS FOR ELECTRONIC SAFETY & SECURITY

SECTION 28 31 11 -DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

DIVISION 31 - EARTHWORK

SECTION 310000 - CONTROL OF SITE WORK

SECTION 311000 - SITE DEMOLITION

SECTION 312000 - SITE EARTHWORK

DIVISION 32 – EXTERIOR IMPROVEMENTS

SECTION 321313 - PORTLAND CEMENT CONCRETE PAVEMENT

SECTION 0329200 - LAWNS AND GRASSES

SECTION 329300 - SITE LANDSCAPING

SECTION 330500 - SITE UTILITY PIPING

SECTION 333114 - SANITARY SEWER SYSTEM

END OF SECTION 000110

SECTION 000115 - INDEX OF WORKING DRAWINGS

GENERAL	
G0.0	PROJECT COVER SHEET
G1.0	LIFE SAFETY & PLAN
G1.1	TEMPORARY CONDITIONS AND PHASING PLAN
CIVIL	
C1.1	SITE DEMOLITION PLAN - ALTERNATE 1
C1.2	SITE DEMOLITION PLAN - ALTERNATE 2
C1.3	SITE DEMOLITION PLAN - ALTERNATE 3
C1.4	SITE DEMOLITION PLAN - ALTERNATE 4
C1.5	SITE DEMOLITION PLAN – ALTERNATE 6
C2.1	SITE LAYOUT PLAN - ALTERNATE 1
C2.2	SITE LAYOUT PLAN - ALTERNATE 2
C2.3	SITE LAYOUT PLAN - ALTERNATE 3
C2.4	SITE LAYOUT PLAN - ALTERNATE 4
C2.5	SITE LAYOUT PLAN – ALTERNATE 6
C3.1	SITE GRADING PLAN - ALTERNATE 1
C3.2	SITE GRADING PLAN - ALTERNATE 2
C3.3	SITE GRADING PLAN - ALTERNATE 3
C3.4	SITE GRADING PLAN - ALTERNATE 4
C3.5	SITE GRADING & UTILITY PLAN – ALTERNATE 6
STRUCTURAL	
S0.1	STRUCTURAL NOTES
S1.1	STRUCTURAL PLAN - ALTERNATE 1
S1.2	STRUCTURAL PLAN - ALTERNATE 2
S1.3	STRUCTURAL PLAN - ALTERNATE 3
S1.4	STRUCTURAL PLAN - ALTERNATE 4
S1.5	STRUCTURAL PLAN - ALTERNATE 5
S1.6	STRUCTURAL PLAN - ALTERNATE 6
S5.1	STRUCTURAL TYPICAL DETAILS
DEMOLITION	
D1.1	DEMOLITION PLAN BASE BID - PHASE 1

	D1.2	DEMOLITION PLAN BASE BID - PHASE 2
	D1.3	DEMOLITION PLAN BASE BID - PHASE 3
	D1.4	DEMOLITION PLAN - ALTERNATE 1
	D1.5	DEMOLITION PLAN - ALTERNATE 2
	D1.6	DEMOLITION PLAN - ALTERNATE 3
	D1.7	DEMOLITION PLAN - ALTERNATE 4
	D1.8	DEMOLITION PLAN - ALTERNATE 5 & 6
	D2.1	DEMOLITION ROOF PLANS - PHASES 1-3
	D2.2	DEMOLITION ROOF PLAN – ALTERNATE 4
	D2.3	DEMOLITION ROOF PLAN - ALTERNATES 5
	D2.4	DEMOLITION ROOF PLAN – PHASES 1-3
	D3.1	DEMOLITION - ENLARGED DETAILS
	D4.1	DEMOLITION EXTERIOR ELEVATIONS – ALTERNATE 1
ARCH	ITECTURAL	
	A1.1	ARCHITECTURAL FLOOR PLAN & ELEVATIONS – ALTERNATE 1
	A1.2	ARCHITECTURAL FLOOR PLAN & ELEVATIONS – ALTERNATE 2
	A1.3	ARCHITECTURAL FLOOR PLAN & ELEVATION – ALTERNATE 3
	A1.4	ARCHITECTURAL FLOOR PLAN & ELEVATION – ALTERNATE 4
	A1.5	ARCHITECTURAL FLOOR PLAN - ALTERNATES 5&6
	A2.1	ENLARGED ROOF DETAILS
	A3.0	ENLARGED PLAN DETAILS AND ELEVATIONS ADD1
	A5.1	WALL SECTIONS
	A7.1	DOOR SCHEDULE AND DETAILS
	A9.0	LOWER-LEVEL REFLECTED CEILING PLAN
	IBING	
PLUIV	IDING	
	PD0.0	PLUMBING NOTES AND GENERAL INFORMATION
	PD0.1	UNDERGROUND PLUMBING DEMOLITION PLAN – ALTERNATES 1&3
	PD1.1	FIRST FLOOR PLUMBING DEMOLITION PLAN – ALTERNATES 1 & 3
	PD1.2	PLUMBING DEMOLITION PLAN – ALTERNATE 2
	PD1.3	PLUMBING DEMOLITION PLAN – ALTERNATE 4
	P1.1	PLUMBING PLANS – ALTERNATE 6

MECHANICAL & HVAC

MG0.0 MECHANICAL NOTES AND GENERAL INFORMATION

	MD1.1	MECHANICAL DEMOLITION BASE BID - PHASE 1
	MD1.2	MECHANICAL DEMOLITION BASE BID - PHASE 2
	MD1.3	MECHANICAL DEMOLITION BASE BID - PHASE 3
	MD1.4	MECHANICAL DEMOLITION PLAN – ALTERNATE 1
	MD1.5	MECHANICAL DEMOLITION PLAN – ALTERNATE 2
	MD1.6	MECHANICAL DEMOLITION PLAN – ALTERNATE 3
	MD1.7	MECHANICAL DEMOLITION PLAN – ALTERNATE 4
	MD1.8	MECHANICAL DEMOLITION PLAN – ALTERNATE 5&6
	MD1.9	MECHANICAL PIPING DEMOLITION – PENTHOUSE
	MD1.10	MECHANICAL HVAC DEMOLITION – PENTHOUSE PLAN
	MD2.1	MECHANICAL ROOF DEMOLITION PLAN – PHASE 1
	MD2.2	DEMOLITION ROOF MECHANICAL PLAN - PHASE 2
	MD2.3	DEMOLITION ROOF MECHANICAL PLAN - PHASE 3
	MD2.4	MECHANICAL ROOF DEMOLITION PLAN – ALTERNATES 1-3
	MD2.5	DEMOLITION ROOF MECHANICAL PLAN – ALTERNATES 4
	M1.1	MECHANICAL PLAN BASE BID – PHASE 1
	M1.2	MECHANICAL PLAN BASE BID – PHASE 2
	M1.3	MECHANICAL PLAN BASE BID – PHASE 3
	M1.4	MECHANICAL PIPING PENTHOUSE PLAN
	M1.5	MECHANICAL HVAC PENTHOUSE PLAN
	M1.6	MECHANICAL PLAN – ALTERNATES 5&6
	M2.1	MECHANICAL ROOF PLAN BASE BID - PHASE 1
	M2.2	MECHANICAL ROOF PLAN BASE BID – PHASE 2
	M2.3	MECHANICAL ROOF PLAN BASE BID - PHASE 3
	M2.4	MECHANICAL ROOF PLAN – ALTERNATE 5&6
	M4.1	MECHANICAL DETAILS
	M4.2	MECHANICAL DETAILS
	M5.1	MECHANICAL SCHEDULES
ELECT	TRICAL	
	EG0.0	ELECTRICAL NOTES AND GENERAL INFORMATION
	ED1.1	ELECTRICAL DEMOLITION BASE BID – PHASE 1
	ED1.2	ELECTRICAL DEMOLITION BASE BID – PHASE 2
	ED1.3	ELECTRICAL DEMOLITION BASE BID – PHASE 3
	ED1.4	ELECTRICAL DEMOLITION PLAN – ALTERNATE 1
	ED1.5	ELECTRICAL DEMOLITION PLAN – ALTERNATE 2
	ED1.6	ELECTRICAL DEMOLITION PLANS – ALTERNATE 3

ED1.7	ELECTRICAL DEMOLITION PLAN – ALTERNATE 4
ED1.8	ELECTRICAL DEMOLITION PLAN – ALTERNATE 3&6
ED1.9	ELECTRICAL DEMOLITION PENTHOUSE PLAN
ED1.10	ELECTRICAL DEMOLITION ROOF PLAN – PHASE 1
ED1.11	ELECTRICAL DEMOLITION ROOF PLAN – PHASE 2
ED1.12	ELECTRICAL DEMOLITION ROOF PLAN – PHASE 3
E1.1	ELECTRICAL POWER PLAN BASE BID - PHASE 1
E1.2	ELECTRICAL POWER PLAN BASE BID - PHASE 2
E1.3	ELECTRICAL POWER PLAN BASE BID - PHASE 3
E1.4	ELECTRICAL POWER PLAN PENTHOUSE
E1.5	ELECTRICAL POWER PLAN – ALTERNATES 5&6
E1.6	ELECTRICAL ROOF PLAN BASE BID - PHASE 1
E1.7	ELECTRICAL ROOF PLAN BASE BID - PHASE 2
E1.8	ELECTRICAL ROOF PLAN BASE BID - PHASE 3
E1.9	ELECTRICAL ROOF PLAN – ALTERNATE 5
E2.1	ELECTRICAL LIGHTING PLAN – ALTERNATE 1
E2.2	ELECTRICAL LIGHTING PLAN – ALTERNATE 2
E2.3	ELECTRICAL LIGHTING PLAN – ALTERNATES 3&6
E2.4	ELECTRICAL LIGHTING PLAN – ALTERNATE 4
E2.5	ELECTRICAL LIGHTING PLAN – PENTHOUSE
E5.1	ELECTRICAL DETAILS
E5.2	ELECTRICAL DETAILS
E6.1	ELECTRICAL SCHEDULES

END OF SECTION 000115

SECTION 090190.52 - MAINTENANCE REPAINTING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes maintenance repainting as follows:
 - 1. Repainting.

1.2 DEFINITIONS

- A. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D523.
- B. Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.
- C. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.
- D. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D523.
- E. Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.
- F. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D523.
- G. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each type of paint system and each pattern, color, and gloss.
 - 1. For each painted color being matched to a standardized color-coding system, include the color chips from the color-coding-system company with Samples.
 - 2. Label each Sample for location and application.
- C. Product List: Printout of current "MPI Approved Products List" for each MPI-product category specified in paint systems, with the proposed product highlighted.

1.4 INFORMATIONAL SUBMITTALS

A. Color Matching Certificate: For computer-matched colors.

PART 2 - PRODUCTS

2.1 PREPARATORY CLEANING MATERIALS

- A. Water: Potable.
- B. Abrasives for Ferrous Metal Cleaning: Aluminum oxide paper, emery paper, fine steel wool, steel scrapers, and steel-wire brushes of various sizes.
- C. Rust Remover: Manufacturer's standard phosphoric acid-based gel formulation, also called "naval jelly," for removing corrosion from iron and steel.

2.2 PAINT, GENERAL

A. Material Compatibility:

- 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
- 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- B. Colors: Architect to Select from Manufacturer's standard range.

2.3 PAINT MATERIALS, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."
- B. Transition Coat: Paint manufacturer's recommended coating for use where a residual existing coating is incompatible with the paint system.

2.4 PAINT MATERIALS

A. Primer plus Topcoat

- 1. Sherwin Williams Exterior-Based Coating for Metal Surfaces:
 - a. Pro-Industrial, (1) One Coat Pro-Cryl Universal Primer, Sherwin Williams B66W01310: MPI #107.
 - b. Pro-Industrial, (2) Two Coats Acrylic Gloss Coating, (Gloss Level 3), Sherwin Williams B66W00611: MPI #114.
- 2. Approved Equal

PART 3 - EXECUTION

3.1 MAINTENANCE REPAINTING, GENERAL

- A. Execution of the Work: In repainting surfaces, disturb them as minimally as possible and as follows:
 - 1. Remove failed coatings and corrosion and repaint.
 - 2. Verify that substrate surface conditions are suitable for repainting.
 - 3. Allow other trades to repair items in place before repainting.
- B. Mechanical Abrasion: Where mechanical abrasion is needed for the work, use gentle methods, such as scraping and lightly hand sanding, that will not abrade softer substrates, reducing clarity of detail.
- C. Heat Processes: Do not use torches, heat guns, or heat plates.

3.2 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of painting work. Comply with paint manufacturer's written instructions for inspection.

3.3 PREPARATORY CLEANING

- A. General: Use the gentlest, appropriate method necessary to clean surfaces in preparation for painting. Clean all surfaces, corners, contours, and interstices.
- B. Detergent Cleaning: Wash surfaces by hand using clean rags, sponges, and bristle brushes. Scrub surface with detergent solution and bristle brush until soil is thoroughly dislodged and can be removed by rinsing. Use small brushes to remove soil from joints and crevices. Dip brush in solution often to ensure that adequate fresh detergent is used and that surface remains wet. Rinse with water applied by clean rags or sponges.
- C. Solvent Cleaning: Use solvent cleaning to remove oil, grease, smoke, tar, and asphalt from painted or unpainted surfaces before other preparation work. Wipe surfaces with solvent using clean rags and sponges. If necessary, spot-solvent cleaning may be employed just prior to commencement of paint application, provided enough time is allowed for complete evaporation. Use clean solvent and clean rags for the final wash to ensure that all foreign materials have been removed. Do not use solvents, including primer thinner and turpentine, that leave residue.
- D. Mildew: Clean off existing mildew, algae, moss, plant material, loose paint, grease, dirt, and other debris by scrubbing with bristle brush or sponge and detergent solution. Scrub mildewed areas with mildewcide. Rinse with water applied by clean rags or sponges.

3.4 PAINT APPLICATION, GENERAL

- A. Prepare surfaces to be painted according to the Surface-Preparation Schedule and with manufacturer's written instructions for each substrate condition.
- B. Apply a transition coat over incompatible existing coatings.

C. Blending Painted Surfaces: When painting new substrates patched into existing surfaces or touching up missing or damaged finishes, apply coating system specified for the specific substrate. Apply final finish coat over entire surface from edge to edge and corner to corner.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- C. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

END OF SECTION 090190.52

SECTION 230993 - SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections.
- B. Division 23 Section "Common Work Results for HVAC".
- C. Division 23 Section "Facility Management Systems".

1.2 DESCRIPTION OF WORK

- A. Sequence of operation is hereby defined as the manner and method by which controls function. Requirements for each type of control system operation are specified in this section.
- B. Operating equipment, devices, and system components required for control systems are specified in Division 23 Section "Facility Management Systems".
- C. HVAC Systems shall be controlled with a Direct Digital Control (DDC) system, sometimes referred to as a Facility Management System (FMS), according to the point list contained at the end of this section. Additional hardware, input/output points or software programming not specifically identified in the point list but which are required to meet the following sequences of operation shall be provided.
- D. All electrical Controllers, Relays, Transducers, etc., required for stand-alone control shall be housed in a NEMA 1 enclosure with a lockable door.

1.3 DEFINITIONS

- A. FMS: Facility management system
- B. DAT: Discharge air temperature.
- C. VSD: Variable speed drive.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 ALARMS

A. Generate an alarm at the computer graphics when any space temperature is <50 def F for 15 minutes (adjustable) and an immediate alarm when any space temperature is <40 deg F (adjustable).

B. Coordinate with the owner to identify alarms as "general" or "critical". General alarms will only be displayed at the computer graphics. Critical alarms will be displayed in the computer graphics program and dialed-out, emailed, or text messaged to pre-programmed telephone numbers and email address via the internet.

3.2 HVAC ZONE CONTROL SEQUENCES

A. Provide software time clock and set-up schedule to place each HVAC system into occupied or unoccupied mode.

3.3 TERMINAL UNITS' CONTROL SEQUENCES

- A. Unit Heater Control (Hot Water): FMS shall cycle fan motor and hot water valve to maintain space temperature between set point and 2 deg F (adjustable) below set point.
 - 1. De-energize unit when hot water supply water temperature falls below 95 deg F (adjustable) and outside air temperature is 80 deg F or above (adjustable).
- B. (ALTERNATE #6) Finned Tube Radiators (Electric): A unit mounted thermostat shall cycle electric heat to maintain space temperature between set point and 2 deg F (adjustable) below set point.

3.4 AIR HANDLING UNITS CONTROL SEQUENCES

- A. Safety Controls for Air Handling Units:
 - 1. Provide a low-limit controller to prevent unit discharge air from falling below 45 deg F (adjustable). Sensor shall be located at the discharge of the unit.
 - 2. Provide an electric low limit thermostat with a 20 foot element serpentined across the face of the leaving air side of the heating coil which will stop the supply fan, close the outside air damper (and relief dampers if applicable) and modulate the heating control valve to maintain a cabinet temperature of 75 deg F (adjustable). The freezestat is to be automatic reset type. If the freezestat resets 3 times (adjustable) within a 24 hour period, the unit will be locked out and require a software reset from the FMS.
 - 1. Provide strap-on aquastat on the leaving water side of the hot water coil to stop the supply fan, close the outside air damper (and relief dampers if applicable) and modulate the heating control valve to maintain a cabinet temperature of 75 deg F (adjustable) if leaving water temperature drops below 40 deg F (adjustable).
 - 2. Provide a high-limit controller to prevent unit discharge air from rising above 125 deg F (adjustable). Sensor shall be located at the discharge of the unit.

A. MZ-1 THRU 9 (Multi-Zone):

1. Occupied Mode: Supply fan shall operate continuously.

Open outside air damper to minimum position and modulate relief air damper. If outside air dry bulb temperature is less than the interior space temperature, modulate outside and relief air dampers to provide economizer cooling if required.

Modulate hot water coil control valve and chilled water coil control valve to maintain hot and cold deck temperatures. If any hot zone damper reaches 100% open, reset hot deck temperature upwards to maintain zone set point. If any cold zone damper reaches 100%

open, reset cold deck temperature downwards to maintain zone set point. If any zone relative humidity exceeds set point (65%, adjustable), reset cold deck temperature to 55 deg F.

Zone dampers shall be modulated as required to maintain zone temperature set points. A low limit controller shall prevent the mixed air temperature from falling below 40 deg F

- 2. Unoccupied Mode: Maintain outside air damper closed and hot deck zone dampers open, cycle unit fan with maximum hot water flow to maintain reduced set point space temperature. Modulate hot deck zone dampers to prevent space temperature rising above zone occupied heating set point. If space humidity exceeds set point, the unit shall be placed into the occupied mode with the outside air damper closed until the space humidity is 5% RH below set point.
- 3. Morning Warm-Up: The FMS shall provide optimum start of unit supply fan with full hot water flow and outside air damper closed until each zone occupied space heating set point temperature is reached 5 to 10 minutes prior to occupied schedule. Modulate zone dampers to prevent over-shooting of occupied heating set point. The system shall revert back to its normal occupied mode per schedule.
- 4. Morning Cool-Down: FMS shall provide optimum start of unit fan with full cooling coil flow and outside air damper closed until each zone occupied space cooling set point temperature is reached 5 to 10 minutes prior to occupied schedule. Modulate zone dampers to prevent over-shooting of cooling set points. The system shall revert back to its normal occupied mode per schedule.
- B. AHU-1 (Constant Volume, Heating and Ventilation):
 - 1. Occupied Mode: Supply fan shall operate continuously.

Open outside air damper to provide minimum outside air. If outside air dry bulb temperature is less than interior and cooling is required, modulate outside air open to provide economizer cooling.

Modulate the hot water coil water control valve as required to maintain space set point.

- 2. Unoccupied Mode: Maintain outside air damper closed, cycle unit supply fan with maximum hot water flow to maintain reduced set point temperature.
- 3. Morning Warm-Up: FMS shall provide optimum start of unit supply fan with full hot water flow and outside air dampers closed until occupied space set point temperatures are reached, at which time the system shall revert back to its normal occupied mode.

3.5 SEQUENCE FOR ZONES WITH MULTIPLE SENSORS

- A. In zones with multiple sensors, the temperature and humidity are to be averaged. The system must be programmed to have the capability for a weighted average to give a higher priority to a single room or group of rooms.
- B. Each zone sensor is to be a combination temperature and humidity sensor.

3.6 ENERGY VALVES

A. Where energy valves are indicated on the drawings, the valve shall be modulated as described above to maintain desired temperatures, and also to maintain a programmed water temperature difference between the supply and return piping at the associated coil. Supply and return water temperatures, and the delta T between the two, are to be displayed on the graphics per the Input/Output Summary Table.

3.7 RETURN FAN CONTROL SEQUENCE (Constant Volume)

A. RF-1 THRU 9: Energize fan during occupied cycle of associated multizone air handling unit.

3.8 PENTHOUSE RELIEF AIR DAMPER CONTROL SEQUENCE

A. Modulate Louver Relief air damper to maintain a positive penthouse pressure of 0.03" w.c. (adjustable).

3.9 ROOFTOP UNIT SEQUENCES (ALTERNATE #5)

- A. Safety Controls for Rooftop Units:
 - 1. Provide a low-limit controller to prevent unit discharge air from falling below 45 deg F (adjustable). Sensor shall be located at the discharge of the duct heating coil.
 - 2. Provide a high-limit controller to prevent unit discharge air from rising above 125 deg F (adjustable). Sensor shall be located at the discharge of the duct heating coil.
- C. RTU-1, 2 (Single Zone VAV Heating, Cooling, and Ventilating Rooftop Unit):
 - Occupied Mode: Open outside air damper to provide minimum outside air cfm on schedule. Supply fan shall operate continuously. Activate stages of DX cooling and gas heat as required to maintain discharge air temperature set point. Cooling minimum DAT shall be 55 deg F (adj.) and heating maximum DAT shall be 95 deg F (adj.). If outside air temperature is 3 degrees less than the space return temperature, and outside air temperature is less than 72 degrees, and cooling is required, modulate outside air damper open to provide economizer cooling. A mixed air temperature sensor shall maintain a minimum DAT of 55 deg F.

Modulate the outside air damper to maintain a space CO_2 level less than 800 ppm (adjustable). For RTU-1, the minimum outside air flow is to be 350 cfm. For RTU-2, the minimum outside air flow is to be 200 cfm. On a rise in space CO_2 level, modulate the outside air dampers open to the scheduled max outside air flow rate as required to maintain the space CO_2 level below 800 ppm (adjustable). The CO_2 sensor will be overridden, and the outside air damper modulated open as required to maintain a positive space pressure.

2. If space humidity rises above set point (65 % RH, adjustable) at the supplied space humidity sensor and dehumidification is enabled, the unit will maintain the compressor operation and reduce the indoor fan airflow to increase latent capacity. If the space humidity value exceeds the dehumidification setpoint during no active call for cooling, the unit will energize the compressor and fans to an optimum capacity for dehumidification. If during active enhanced dehumidification the space humidity falls below the

- dehumidification setpoint 2%, dehumidification will be terminated and the unit will transition back to normal cooling or heating control.
- 3. Unoccupied Mode: Outside air damper shall remain closed. Cycle supply fan and stages of cooling as required to maintain set back temperature. If space humidity exceeds set point, the unit shall be placed into dehumidification mode until the space humidity is 5% (adjustable) below set point. The outside air damper is to remain closed.
- 4. Optimal Start: The unit will use an optimal start algorithm for morning start-up. This algorithm will minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period. The mixed air dampers will operate as described in the occupied mode except that the outside air damper will modulate to fully closed.
- 5. Space sensor is to be a combination temperature and humidity sensor.

3.10 EXHAUST FAN CONTROL SEQUENCE

- A. EF-A1 thru A10, B1 thru B7: Operate during occupied cycle of nearest AHU, off otherwise.
- B. (ALTERNATE #6) EF-B8: Operate during occupied cycle of nearest AHU, off otherwise.

3.11 PUMP CONTROL SEQUENCE

- A. P-1, P-2 Building Hot Water Distribution Loop: Variable volume pumping. Energize lead variable volume pump on a call for hot water. Modulate lead pump with a 4-20 mA output to the variable speed drive (VSD) to maintain a 10 PSIG (adjustable) differential pressure across the supply and return mains. With a failure of the lead pump to establish flow within 15 seconds after a call to operate, start the lag pump and generate an alarm message reading "BUILDING HOT WATER DISTRIBUTION LOOP LEAD PUMP FAILURE" to be automatically displayed in computer graphics and dial out, text messaged, and email to pre-programmed addresses and/or numbers. Alternate lead and lag pumps every seven days (adjustable). In unoccupied mode, if the outside air temperature is above 25 degrees (adjustable), the pumps are to be off. When outside air temperature is below 25 degrees (adjustable), the lead pump shall be energized on a call for hot water.
- B. P-3, P-4 Building Chilled Water Distribution Loop: Variable volume pumping. Energize lead variable volume pump on a call for hot water. Modulate lead pump with a 4-20 mA output to the variable speed drive (VSD) to maintain a 10 PSIG (adjustable) differential pressure across the supply and return mains. With a failure of the lead pump to establish flow within 15 seconds after a call to operate, start the lag pump and generate an alarm message reading "BUILDING CHILLED WATER DISTRIBUTION LOOP LEAD PUMP FAILURE" to be automatically displayed in computer graphics and dial out, text messaged, and email to preprogrammed addresses and/or numbers. Alternate lead and lag pumps every seven days (adjustable).

3.12 BOILER AND HEATING WATER CONTROL SEQUENCE

A. On a call for hot water the FMS shall energize the hot water distribution pump(s), and packaged controls shall be enabled to maintain the hot water loop temperature. The packaged controls shall activate, and stage boilers and their associated pumps as required to maintain the loop supply temperature. The boiler controller shall sequence the boilers and modulate output such

that total system efficiency is maximized. The packaged controller shall reset the supply water temperature based on outside air temperature. The packaged controller shall have a set of dry contacts to notify the FMS of any alarm state within the boiler plant or controller.

B. Boiler isolation valves are to be open when the respective boiler is firing, closed otherwise.

3.13 CHILLER CONTROL SEQUENCE

- A. During "Occupied Mode", the FMS shall enable the chiller when economizer cooling is not sufficient to satisfy space cooling needs, the ambient temperature is above 50 deg F, and there is a call for chilled water. The supply water temperature will be reset by a 4-20 mA or 0-10 VDC output signal from the FMS to the chiller microprocessor to satisfy zone with greatest cooling demand or dehumidification demand. Mechanical Contractor shall provide interlock wiring between flow switches and discharge controller sensors at chiller evaporator and condenser water barrels and chiller control panel.
- B. During "Unoccupied Mode", maintain existing sequence of operation.
- C. Monitor and trend chiller electrical load (kW) on a daily basis and maintain the maximum electrical load for chiller on each day for a period of one year in a trend log.

3.14 EXISTING EQUIPMENT SEQUENCE

A. Maintain existing sequence of operation for all air handlers, fan coil units, exhaust fans, steam boiler, pumps, and unit heaters not being removed or replaced as part of the project.

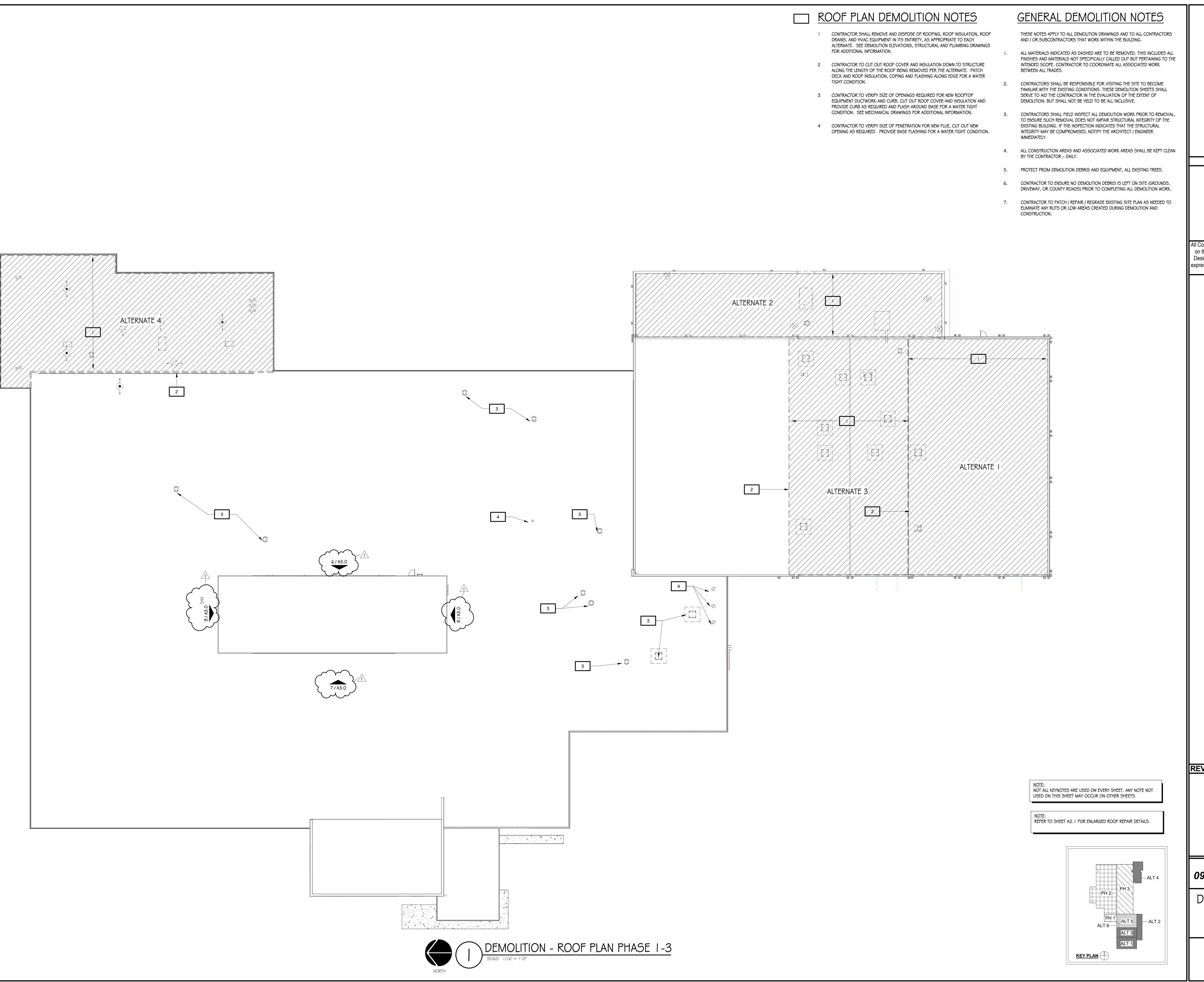
Customer:													Z	ЬN	10	INPUT/OUTPUT	<u>ا</u>		SUL	SUMMARY TABLE	AR	Υ٦	ĀĒ	灵														
нссѕс									ΙΨ	30	HARDWARE	RE																S	SOFTWARE	M	AR	ш						
Location: Salamonie	70	OUTPUT (0)	5					불	Ď	<u>L</u>)	, D	INPUT (T, D, V, C)	$\widehat{\Omega}$				L	AL,	ALARMS	MS							<u>≥</u> Ш	EMCS FUNCTIONS	Ή	Ž	E	Ó	8					
	DIG	AN	ANALG	(5)		DIG	ITAL	أرا	\vdash			ANALOG	Ŷ	ტ			DIG	_O	Ā	ANALG	ניו	ŀ	ŀ	ŀ	ļ		ŀ	-	-					-	-	-	ļ	
Point Description	Control Relav Solenoid	Pneumatic Transducer	Electrical Transducer	4-20 ma or 0-10 VDC	Pressure Switch	Flow Switch	Contact Closure	Auxiliary Contact	KW Meter Contact	Temperature	Relative Humidity	Set Point Adiustment Psig, Psia, Psid, IV	Wol	Current Transducer	Position	Trendina	Equipment Status	Maintenance	Hiah Limit	Low Limit (Temperature)	Run Time	Scheduled On/Off	aot2\trist2 mumitaO	Demand Limiting	Totalization Dav/Wight Setback	Fconomizer	Ventilation/recirculation	Direct Diaital Temp Control	Enthalpy (Global)	Heating or Cooling Reset	Boiler Optimization OA Reset	Chiller Optimization	Chilled Water Reset	lontro VAV	Variable Speed Pumping	Ice Storage Control	Lead/Lag Control	Liahtina Control Color Graphics Item
Outside Air							-			×	×	×																										×
Unit Heaters																																						×
Supply Fan	×													X			×																					×
Hot Water Valve			,	×											×													×										×
Space Served			\dashv	+	-		\dashv	-	-	×		\prod										\dashv	\dashv	-		1										-		×
			+	+	+		+	+	+	+	-	\prod									1	+	+	+		1			-	_							_	7
MZ-1 IHKU 9		1	+	>	+	-	+	+	+	+	-			×			×		╧		t	>	×	+	\perp				+	+						+	-	< ×
HW Coil Valve			+	< ×	+			-	+	×	-			<	×		<						<	+	-		Ī	×	+	-		×				+	-	< ×
CHW Coil Valve			<u> </u>	×		<u> </u>	<u> </u>			×	-				×									<u> </u>	<u> </u>			×				×						×
Hot Deck										×									×	×									,	×								×
Cold Deck									_	×									×	×									, ,	×								×
Hot & Cold Zone Dampers				×											×													×										×
Space Served			\dashv	+	\dashv		\dashv	\dashv		×	×	×		×								\dashv	\dashv	\dashv		\Box												×
																								-														
AHU-1			1	\dashv	-			-		_		\prod												4		1												×
Supply Fan				×										×			×					×	×															×
HW Coil Valve				×					- 1	×					×													×				×						×
Outside Air Damper				×											×							×				×												×
Return Air Damper			_	×											×							×				×												×
Mixed Air									- 1	×									×	×								×										×
Supply Air										×		\prod							×	×		\dashv		\dashv		1		×										×
Space Served		_	_	—	_				_	<u>~</u>	×						_		×	×	_	_	_	_			_	_										×

П					Color Graphics Item	Т	×	;	×	7	X	×I×	×	(X	×	×	×	×	×	×	\neg	×	×
Н					Liahtina Control			\Box			\dashv			\dagger	1					\dashv	\dashv	\dashv	+
\square					Lead/Lag Control	+		H			+	\dashv	\top	+	1					\dashv	\dashv	\dashv	+
П					Ice Storade Control			Ħ		1	\exists	1	1	T	1					\dashv	\dashv	\dashv	+
П					Variable Speed Pumping						1										寸	\dashv	+
					VAV Control																	+	+
			ď)	Chilled Water Reset																		+
		-l	2		Chiller Optimization																	_	+
			F	-	TeseA AO																		
		I≸		•	Boiler Optimization																		+
		SOFTWARE	SNOILONI E SOME	5	Heating or Cooling Reset																		+
		Ιö	ď	-	Enthalpy (Global)																		
		ြလ	Ç	2	Direct Diaital Temp Control								×	×		×		×	×				
			ū	ĺ	Ventilation/recirculation																		
					Economizer			,	×									×	×				
					Dav/Night Setback																		
	щ				Totalization																		
	필				Demand Limitina																		
	¥				aot2\thst2 mumitaO		X						Y										
	≿				Scheduled On/Off		×		×			>	×					×	×			×	×
	A			G	Run Time																		
	SUMMARY TABLE		JS	ANALG	Low Limit (Temperature)										×	×							
	5		ALARMS	A	Hidh Limit	+									×	×						+	+
	ပ		Ϋ́	-	Maintenance	+															-	+	+
	INPUT/OUTPUT		⋖	DIG	Eauipment Status		×					>	< ×	: ×	+						_	×	×
	틸			+	Trendina			-			_	<u> </u>	1		'						\dashv	\rightarrow	+^
	징																						┸
	Ě				Position			,	×									X	×				
	2			G	Electrical Current Flow		×													×			
	Z		ပ	2	Flow																		
		HARDWARE	INPUT (T, D, V, (ANALOG	Set Point Adiustment Psig, Psia, Psid, IV				×											X	=	1	1
		IŠ	\Box		Relative Humidity																_	_	+
		ΙÓ			Temperature															×			┸
		₽	\vdash												~	×	×			×			┷
		ΙΤ	<u>F</u>		KW Meter Contact																		
			=	TAL	Auxiliary Contact																		
					Contact Closure																		
				DIG	Flow Switch																		
					Pressure Switch							>	<									+	+
					4-20 ma or 0-10 VDC	+	×	;	×			>	< ×	(×	:			×	×		_	+	×
			⊢	√LG	Electrical Transducer													. ,	, ,		\dashv	_	+
			<u> </u>	ANALG	Pneumatic Transducer			-						+							_	_	+
			OUTPUT (O)	1—	Solenoid						-										_	_	+
Ш			Ō	DIG			Ш	\sqcup		_	4	_		-	1						\dashv	↲	\perp
					Control Relav	4		\sqcup	_		_	_		1							ightharpoonup	×	\bot
									bers													al)	
					, ;;	DIIOII	ypical)	:	Penthouse Relief Dampers		ĮŞ							Outside Air Damper	amper	p∈		Exhaust Fans (Typical)	2.3.4
	mer:		on:		,i	Point Description	Return Fan (Typical)	ľ	use Re		Ö	1, 2	y Fan	leat	Air	y Air	Air ر	le Air [Return Air Damper	Space Served		ıst Fan	Pumps P-1
	Customer:	HCCSC	Location:		, ;		Return	:	Pentho	i	Rooft	RTU-1	Supply Fan	Gas Heat	Mixed Air	Supply Air	Return Air	Outsic	Returi	Space		Exhau	Pilmp

တ
ROL
CONT
ŏ
AC (
Ŧ
NS FOR F
S
ATIONS
ATI
ĒR
OF OPER
OF
NCE
EQUE
SE

				Color Graphics Item]	×	×	×	×	>	<
				Liahtina Control							Ī
				Lead/Lag Control							
				Ice Storage Control							
				Variable Speed Pumping							1
				VAV Control							i
			S	Chilled Water Reset							i
			Z	Coil water Delta T							1
	RE	ì	≓	AO Reset		×					1
	٧A	9	Š	Boiler Optimization							
	SOFTWARE		5	Heating or Cooling Reset							
	OF		ιν Τ	Enthalpy (Global)							1
	S		EMCS FUNCTIONS	Direct Diaital Temp Control	;	×			×		
		i	<u>≥</u> Ш	Ventilation/recirculation							
				Economizer							
				Dav/Niaht Setback							
ц				noiteziletoT							
				Demand Limitina	H					\top	1
1				aot2\trst2 mumitaO		×			×	\top	1
_				Scheduled On/Off		×			×	\neg	1
<u> </u>			(D	Run Time	Ħ					\dashv	7
È		S	ANALG	Low Limit (Temperature)		×			H	\dashv	+
[۲		ALARMS	Ž	JimiJ ApiH		×				×	_
ó		¥	È	Maintenance		_					`
5		Υ	DIG								
INPUT/OUTPUT SUMMARY TABLE				Eauipment Status	,	<u>×</u>			×		
5				Trendina							
2				Position			×				
5			(D	Current Transducer							
			ANALOG	Wol						-	
-		(C)	A_	Psig, Psia, Psid, IN H20						_	+
	RE	>,	Ž	Set Point Adiustment		_					_
	٧A	Ω,	_		ľ	<u>×</u>			×	×	`
	DΛ	Ĺ,		Relative Humidity							
	HARDWARE	<u>–</u>		Temperature	:	×			×		
	Ĥ	NPUT (T, D, V, C)		KW Meter Contact							
		Z	-	Auxiliary Contact	\Box					\dashv	1
			<u> </u>	Contact Closure	\vdash				\vdash	+	\dashv
			DIGITAI	Flow Switch	\vdash				\vdash	+	\dashv
				Pressure Switch	$\vdash \vdash$				\vdash	+	\dashv
			_		Ы.	_					
		_	ပ	4-20 ma or 0-10 VDC		×	×		×	×	`
		Ž ~	ANALG	Electrical Transducer							
		OUTPUT (0)]₹	Pneumatic Transducer						\top	1
		$\frac{1}{2}$		Solenoid							1
			DIG	Control Relav		×			×	×	<
_				Point Description			Isolation Valves			Boiler Rm CO Sensors	II. CO Sellsols
mer:		on:		De		S	tiol	_		ģ	2
Customer:	нссѕс	Location: Salamonie		nt De		Boilers	olatio	Chiller	CH-1	J Q	<u> </u>

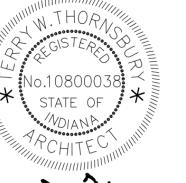
END OF SECTION 230993



ARCHITECTURAL DESIGN INC.

2020 E. Washington Boulevard Fort Wayne, Indiana 46803 PH: 260.424.4830 www.viridian-design.net

CERTIFICATION



All Concepts, deas, design elements, plans, and details as shown on this document are the sole property of Viridian Architectural Design, Inc. and shall not be used for any purpose without prior expressed written consent. The Owner shall be permitted to retain

copies for information and reference.

CEMEN-

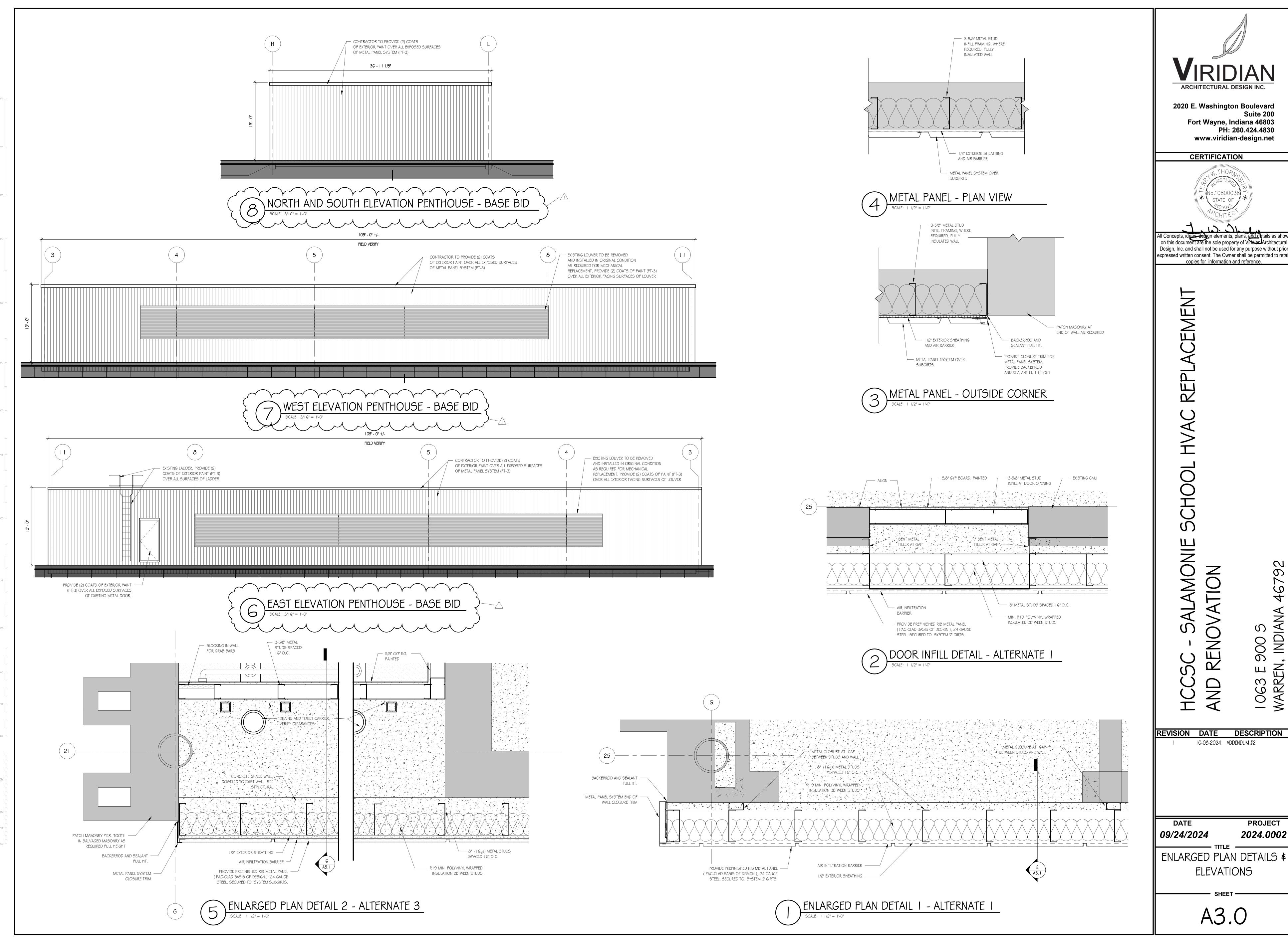
REVISION DATE DESCRIPTION 10-08-2024 ADDENDUM #2

PROJECT 09/24/2024 2024.0002

DEMOLITION ROOF PLAN -

PHASES 1-3

D2.4



2020 E. Washington Boulevard Suite 200 Fort Wayne, Indiana 46803 PH: 260.424.4830



All Concepts, ideas, design elements, plans, and details as shown on this document are the sole property of Viridian Architectural Design, Inc. and shall not be used for any purpose without prior expressed written consent. The Owner shall be permitted to retain

copies for information and reference.

REVISION DATE DESCRIPTION 10-08-2024 ADDENDUM #2

300 S INDIANA

2024.0002

ELEVATIONS

REMOVE PIPING TO POINT INDICATED AND PREPARE FOR NEW WORK.

2 REMOVE AIR HANDLING UNIT COMPLETE. REMOVE DUCTWORK TO POINT INDICATED AND PREPARE FOR NEW WORK.

3 REMOVE CHILLER COMPLETE. EXISTING EQUIPMENT PAD TO REMAIN.

4 base bid: Plan Left existing steam boiler is to remain active including all associated steam pipe to serve mechanical EQUIPMENT LOCATED IN SOUTH PENTHOUSE. EXISTING CONDENSATE PIPE, RECEIVER, FEED WATER PIPE AND PUMPS TO REMAIN ACTIVE AND ALL OTHER SPECIALTIES AS REQUIRED. REMOVE PIPING TO POINT INDICATED AND PREPARE FOR NEW WORK. MIDDLE AND RIGHT BOILERS INDICATED ON PLAN ARE TO BE REMOVED COMPLETE.

ALTERNATE BID #3: REMOVE PLAN LEFT BOILER COMPLETE INCLUDING ALL ASSOCIATED STEAM, CONDENSATE AND FEED WATER PIPING, CONDENSATE RECEIVERS, FEED PUMPS AND ALL ASSOCIATED SPECIALTIES. REMOVE 12"Ø AND 20"Ø FLUE PIPING COMPLETE UP THROUGH ROOF AND CAP EXISTING CURB ON ROOF. PREPARE NATURAL GAS PIPING FOR NEW WORK.

5 existing TCP and pneumatic controls to remain active for alternate areas not taken to maintain control of existing

ALTERNATE BID #5: REMOVE GAS PIPING TO POINT INDICATED AND PREPARE FOR NEW WORK. REFER TO GAS METER DETAIL FOR ADDITIONAL INFORMATION.

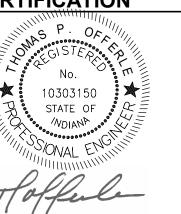
7 > REMOVE BOILER COMPLETE INCLUDING ALL ASSOCIATED PIPING, FLUES, CONTROLS, AND ACCESSORIES TO POINT INDICATED AND PREPARE ALL PIPING FOR NEW WORK.

8 REMOVE EXISTING EXHAUST FAN COMPLETE INCLUDING ALL CONTROLS, WIRING, DUCTWORK, AND ACCESSORIES AND PREPARE AREA

ARCHITECTURAL DESIGN INC.

2020 E. Washington Boulevard Suite 200 Fort Wayne, Indiana 46803 PH: 260.424.4830 www.viridian-design.net

CERTIFICATION



All Concepts, ideas, design elements, plans, and details as shown on this document are the sole property of Viridian Architectural Design, Inc. and shall not be used for any purpose without prior expressed written consent. The Owner shall be permitted to retain

copies for information and reference.

REVISION DATE DESCRIPTION 10-08-2024 ADDENDUM #2

09/24/2024

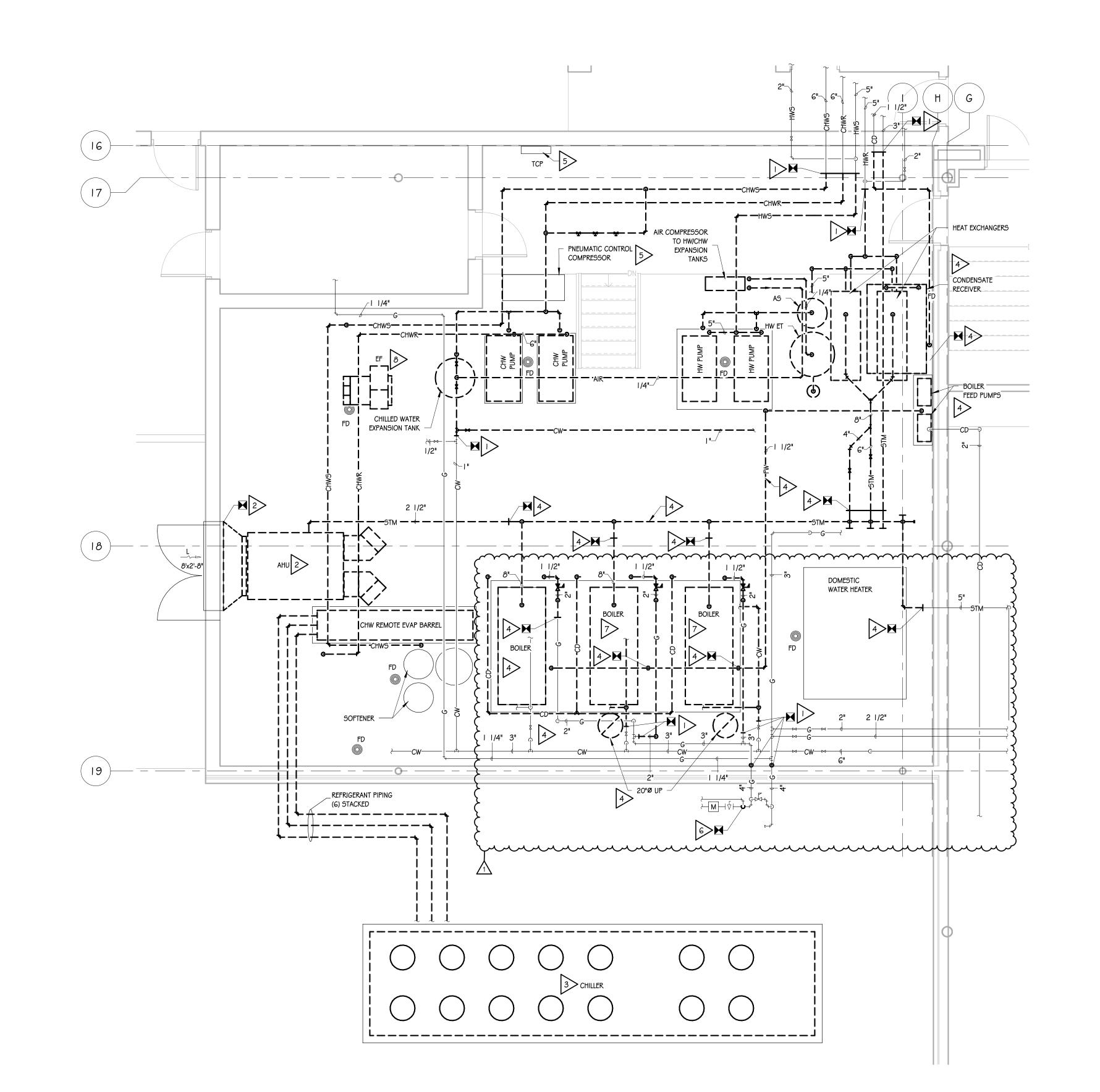
PH 1 ALT 5 ALT 2

ALT 3

PROJECT 2024.0002

BASE BID - PHASE I

— SHEET —





SCALE: 1/4" = 1'-0"



- PROVIDE AND INSTALL CAP ON EXISTING PIPING.
- TIE INTO EXISTING PIPING AND ROUTE AS INDICATED.
- PROVIDE AND INSTALL NEW CHILLED WATER PUMPS COMPLETE. NEW PUMPS TO BE MOUNTED ON EXISTING CONCRETE HOUSEKEEPING PAD. CONTRACTOR TO EXTEND CONCRETE HOUSEKEEPING PAD AS REQUIRED.

FOR ADDITIONAL INFORMATION. PROVIDE AND INSTALL PIPE SUPPORTS FOR REFRIGERANT PIPING.

PROVIDE AND INSTALL NEW CHILLER COMPLETE INCLUDING ALL PIPING, REFRIGERANT, REMOTE DX COOLER, AND ALL PIPING ACCESSORIES PER MANUFACTURER'S RECOMMENDED INSTALLATION. NEW CHILLER AND DX COOLER TO BE MOUNTED ON EXISTING CONCRETE HOUSEKEEPING PAD. CONTRACTOR TO EXTEND EXISTING CONCRETE HOUSEKEEPING PAD AS REQUIRED. PROVIDE ALL WORKING

CLEARANCES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO CHILLED WATER FLOW DIAGRAM AND ARCHITECTURAL PLANS

- (5) ROUTE NEW REFRIGERANT PIPING THROUGH EXISTING OPENINGS. MODIFY EXISTING OPENINGS AS REQUIRED AND SEAL PIPE PENETRATIONS FOR A WATERTIGHT WEATHERPROOF INSTALLATION.
- EXISTING TCP AND PNEUMATIC CONTROLS TO REMAIN ACTIVE FOR ALTERNATE AREAS NOT TAKEN TO MAINTAIN CONTROL OF EXISTING
- PROPOSED TEMPERATURE CONTROL PANEL LOCATION. CONTRACTOR IS TO VERIFY QUANTITY AND LOCATION OF ALL PANELS REQUIRED AND PROVIDE ELECTRICAL POWER TO ANY CHANGE IN LOCATION OR ADDITIONAL PANELS.
- BASE BID: EXISTING BOILER AND EXTENT OF PIPING, CONDENSATE RECEIVER, FEED PUMPS, CONTROLS AND SPECIALTIES TO REMAIN
- ALTERNATE BID #3: CAP STEAM 5" MAIN IN BOILER ROOM SERVING MECHANICAL EQUIPMENT IN ALT. 3. REFER TO MDI.I FOR ADDITIONAL
- 9 Provide and install new heating hot water pumps complete. New pumps to be mounted on existing concrete housekeeping PAD. CONTRACTOR TO EXTEND CONCRETE HOUSEKEEPING PAD AS REQUIRED.
- RECOMMENDED INSTALLATION. PROVIDE ALL WORKING CLEARANCES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO HOT WATER FLOW DIAGRAM FOR ADDITIONAL INFORMATION. (I) <u>Alternate Bid #5</u>: Tie into existing gas piping and route as indicated for final connection to New Rooftop Units. Provide

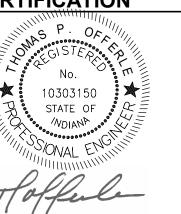
PROVIDE AND INSTALL NEW BOILER COMPLETE INCLUDING ALL PIPING, CONTROLS, WIRING, AND ACCESSORIES PER MANUFACTURER'S

- AND INSTALL NECESSARY PRESSURE REGULATORS AS REQUIRED TO REDUCE GAS PRESSURE TO 2 PSI. REFER TO GAS METER DETAIL FOR ADDITIONAL INFORMATION.
- (12) CONTRACTOR TO CONFIRM EXISTING METER IS CAPABLE OF HANDLING ADDITIONAL GAS LOADS. COORDINATE WITH LOCAL UTILITIES AND PROVIDE AND INSTALL NEW GAS METER AS REQUIRED.
- BASE BID: ADDITIONAL GAS LOAD IS: 7,000 CFH.
- ALTERNATE BID #5: ADDITIONAL GAS LOAD IS: 500 CFH.
- TOTAL ADDITIONAL GAS LOAD FOR BASE BID PLUS ALTERNATE BID #5 IS: 7,500 CFH.
- (3) PROVIDE AND INSTALL EMERGENCY GAS SHUTOFF VALVES ON EXISTING INCOMING GAS PIPING FOR SHUTOFF UPON ACTIVATION OF PUSH BUTTON CONTROL PROVIDED BY OTHERS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATE ALL
- TIE INTO EXISTING GAS PIPING AND ROUTE AS INDICATED FOR FINAL CONNECTION TO NEW BOILERS. PROVIDE AND INSTALL ALL NECESSARY STEP DOWN REGULATORS TO REDUCE INCOMING GAS PRESSURE TO 7"-14" W.C. CONFIRM REQUIRED GAS PRESSURE WITH APPROVED EQUIPMENT AND INSTALL GAS PIPING AND SPECIALTIES PER MANUFACTURER'S RECOMMENDED INSTALL. REFER TO NATURAL GAS CONNECTION DETAIL FOR ADDITIONAL INFORMATION.
- (15) PROVIDE AND INSTALL AL294C STAINLESS STEEL DOUBLE WALL FLUE PIPING FROM BOILERS, COMBINED AND ROUTED UP THROUGH EXISTING ROOF OPENING AND TERMINATE WITH MANUFACTURER'S RECOMMENDED CAP. INSTALL AL DRAINS, SLOPES, AND CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
- REFER TO HOT WATER AND CHILLED WATER FLOW DIAGRAMS FOR ADDITIONAL INFORMATION ON MAKE-UP WATER CONNECTIONS. SEPARATE BACKFLOW PREVENTORS ARE TO BE PROVIDED FOR EACH SYSTEM.
- (7) PROVIDE AND INSTALL DUCTWORK AND TRANSITIONS AS REQUIRED TO CONNECT EXISTING LOUVER AND SLEEVE TO NEW AHU.
- (18) PROVIDE AND INSTALL NEW AIR HANDLER COMPLETE INCLUDING ALL CONTROLS, WIRING, DUCTWORK, AND ACCESSORIES. UNIT TO BE SUSPENDED FROM STRUCTURE. PROVIDE AND INSTALL ALL NECESSARY HANGERS, SUPPORTS, AND HARDWARE AS REQUIRED.
- (9) PROVIDE AND INSTALL BELIMO ENERGY VALVE ON HW PIPING. COORDINATE WORK WITH T.C.C.
- PROVIDE AND INSTALL WITH ADJUSTABLE BLADES ON SUPPLY AIR DUCT OUTLETS.
- ROUTE 14"Ø PVC COMBUSTION AIR INTAKE FROM BOILER UP THROUGH ROOF AND TERMINATE PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN ALL REQUIRED CLEARANCES.
- PROPOSED VARIABLE FREQUENCY DRIVE LOCATION. VFD SHALL BE PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR. COORDINATE LOCATION WITH MANUFACTURER'S CLEARANCES AND PROVIDE AND INSTALL VFD ON METAL STRUT SEPARATE FROM UNIT. INCLUDE ALL HARDWARE AS REQUIRED.
- PROVIDE AND INSTALL NEW EXHAUST FAN COMPLETE INCLUDING ALL WIRING, CONTROLS, DUCTWORK, MOUNTING HARDWARE, AND ACCESSORIES. FAN TO BE SUSPENDED FROM STRUCTURE. ROUTE DUCTWORK UP THROUGH EXISTING OPENING IN ROOF FOR FINAL ONNECTION TO NEW ROOF CAP. PROVIDE AND INSTALL ALL NECESSARY DUCT TRANSITIONS AND FITTINGS AS REQUIRED.
- PROVIDE AND INSTALL CO SENSOR. mmm.



2020 E. Washington Boulevard Fort Wayne, Indiana 46803 PH: 260.424.4830 www.viridian-design.net

CERTIFICATION



All Concepts, ideas, design elements, plans, and details as shown on this document are the sole property of Viridian Architectural Design, Inc. and shall not be used for any purpose without prior expressed written consent. The Owner shall be permitted to retain

copies for information and reference.

REVISION DATE DESCRIPTION 10-08-2024 ADDENDUM #2

PH 1 ALT 2

ALT 3

KEY PLAN

PROJECT 2024.0002 09/24/2024

MECHANICAL PLAN BASE BID - PHASE I

SHEET -

MECHANICAL PLAN BASE BID - PHASE I

PHASING LEGEND

PHASE 2 PHASE 3

MECHANICAL PLAN NOTES

PROVIDE AND INSTALL NEW AIR HANDLING UNIT COMPLETE INCLUDING ALL CONTROLS, WIRING, AND ACCESSORIES. PROVIDE AND INSTALL NECESSARY DUCTWORK, TRANSITIONS, AND FITTINGS AS REQUIRED FOR CONNECTION TO EXISTING DUCTWORK.

PROPOSED TEMPERATURE CONTROL PANEL LOCATION. CONTRACTOR IS TO VERIFY QUANTITY AND LOCATION OF PANEL REQUIRED AND PROVIDE ELECTRICAL POWER TO ANY CHANGE IN LOCATION OR ADDITIONAL PANELS.

(3) PROPOSED VARIABLE FREQUENCY DRIVE LOCATION. VFD SHALL BE PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR. COORDINATE LOCATION WITH MANUFACTURER'S CLEARANCES AND PROVIDE AND INSTALL VFD ON METAL STRUT SEPARATE FROM UNIT. INCLUDE ALL HARDWARE AS REQUIRED.

PROVIDE AND INSTALL NECESSARY QUANTITY OF RELIEF DAMPERS AND ACTUATORS SIZED FOR FULL SIZE OF EXISTING LOUVER DIMENSION. ACTUATORS TO BE PROVIDED BY T.C.C. MECHANICAL CONTRACTOR AND T.T.C. TO COORDINATE QUANTITY OF ACTUATORS REQUIRED.

TIE INTO EXISTING DUCTWORK AT FLOOR AND ROUTE AS INDICATED.

EXTEND ZONE DUCTWORK DOWN TO UNIT. SPLIT DUCT TO CONNECT TO HOT AND COLD DECK DUCT CONNECTIONS ON UNIT.

EXISTING LOUVER TO REMAIN. CONTRACTOR TO REMOVE AND REINSTALL AS NECESSARY FOR REMOVAL AND INSTALLATION OF NEW

THIS PROJECT IS TO BE PHASED.

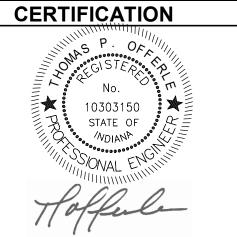
PHASE 2: THE INTENT IS TO REPLACE ALL UNIT HEATERS, AIR HANDLING UNITS, ASSOCIATED BRANCH PIPING, VALVES, CONTROLS, PIPING SPECIALTIES, AND OVERHEAD PIPING MAINS NOTED ON THE PLANS TO BE PART OF PHASE 2. AIR HANDLERS, CONTROLS, AND ASSOCIATED BRANCH PIPING NOTED ON PLANS TO BE PART OF PHASE 3 ARE TO REMAIN AND BRANCH PIPING TO BE RECONNECTED TO NEW PIPING MAINS WITH A NEW BRANCH SHUTOFF VALVE INSTALLED AT EACH HWS, HWR, CHWS, AND CHWR TAKE OFF. DURING PHASE 2, STEAM PIPING MAIN WILL BE REMOVED AND STEAM WILL NO LONGER BE AVAILABLE. STEAM AND CONDENSATE PIPING ASSOCIATED WITH MZ-1, MZ-4, MZ-8 AND H\$VMZ-1 UNITS STEAM PREHEAT COILS ARE TO BE CAPPED AS

PHASE 3: THE INTENT IS TO REPLACE ALL AIR HANDLING UNITS, ASSOCIATED BRANCH PIPING, VALVES, CONTROLS, AND PIPING SPECIALTIES NOTED ON PLANS TO BE PART OF PHASE 3. PHASE 3 AIR HANDLING UNIT NEW BRANCH PIPING IS TO BE TIED INTO HWS, HWR, CHWS, AND CHWR PIPING MAINS THAT WERE REPLACED IN PHASE 2.



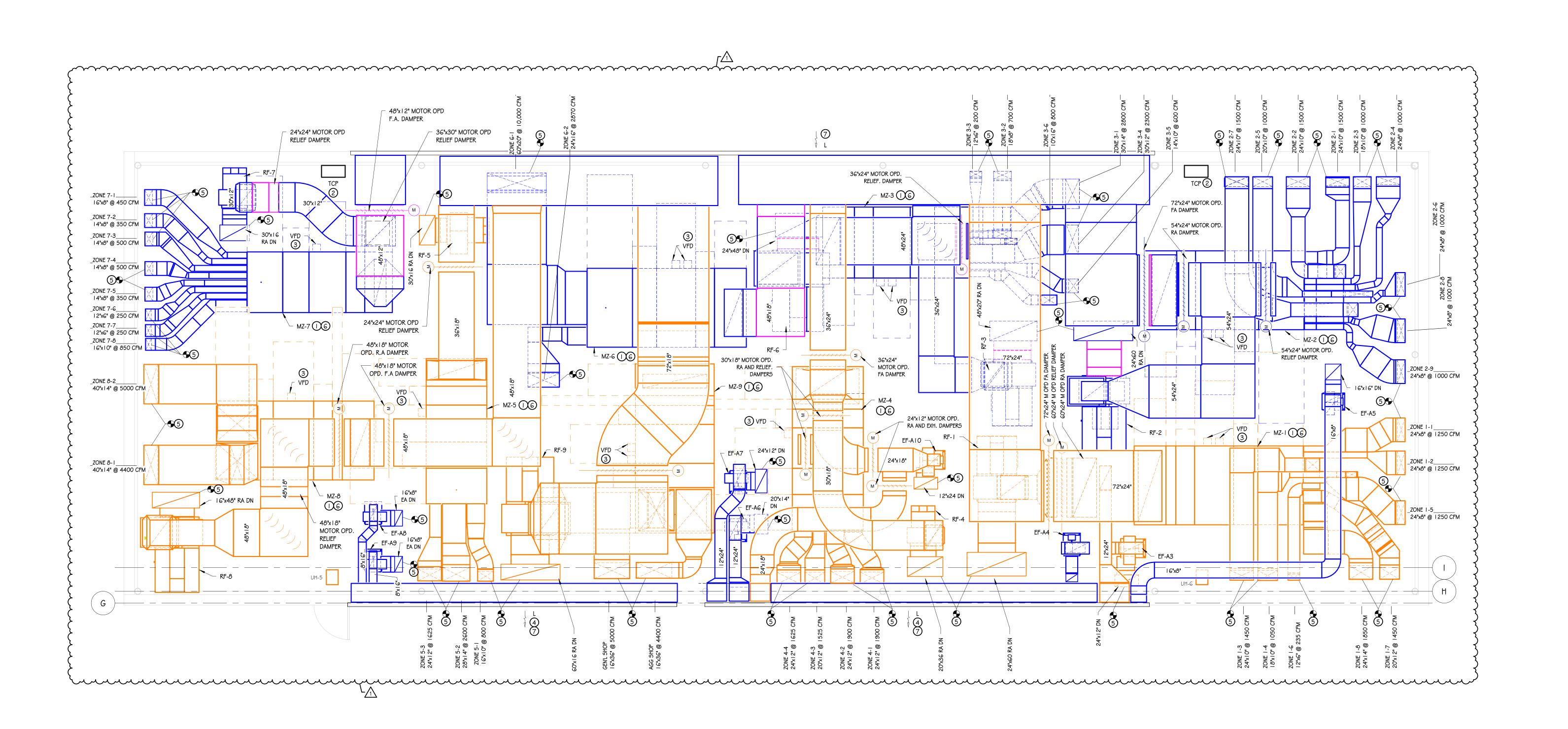
2020 E. Washington Boulevard Suite 200 Fort Wayne, Indiana 46803 PH: 260.424.4830

www.viridian-design.net

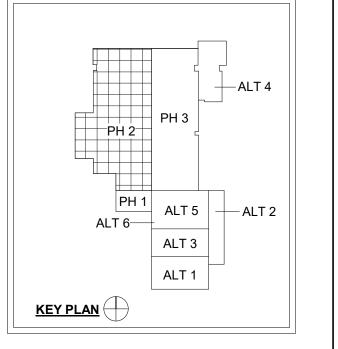


All Concepts, ideas, design elements, plans, and details as shown on this document are the sole property of Viridian Architectural Design, Inc. and shall not be used for any purpose without prior expressed written consent. The Owner shall be permitted to retain

copies for information and reference.







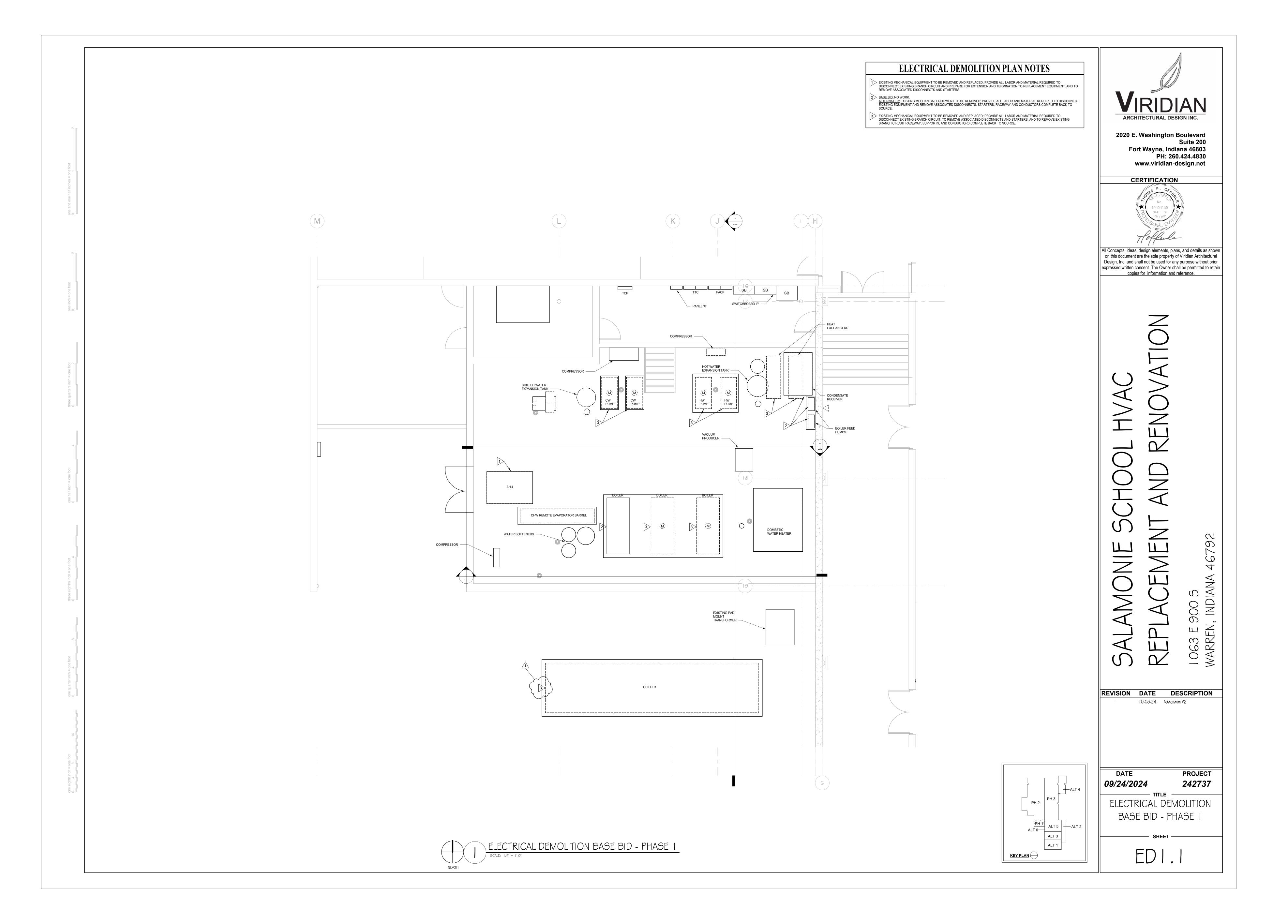
DESCRIPTION REVISION DATE 10-08-2024 ADDENDUM #2

09/24/2024

PROJECT 2024.0002

MECHANICAL HVAC -PENTHOUSE PLAN

M1.5



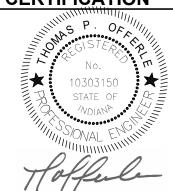
- EXISTING MECHANICAL EQUIPMENT TO BE REMOVED AND REPLACED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING BRANCH CIRCUIT AND PREPARE FOR EXTENSION AND TERMINATION TO REPLACEMENT EQUIPMENT, AND TO REMOVE ASSOCIATED DISCONNECTS AND STARTERS.
- 2 EXISTING AREA TO BE DEMOLISHED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING ELECTRICAL ITEMS FROM SOURCE; ELECTRICAL ITEMS TO BE ABANDONED IN PLACE FOR REMOVAL DURING BUILDING DEMOLITION. 3 > EXISTING PANEL TO BE DISCONNECTED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING PANEL FEEDER AT SOURCE AND REMOVE FEEDER CONDUCTORS, OVERHEAD RACEWAY, AND SUPPORTS COMPLETE BACK TO SOURCE; PANEL TO BE ABANDONED IN PLACE FOR REMOVEL DURING BUILDING DEMOLITION.
- EXISTING FIRE ALARM DEVICE TO BE DISCONNECTED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING FIRE ALARM DEVICE FROM SOURCE AND TO REMOVE CABLE BACK TO NEXT ACTIVE DEVICE; EXISTING FIRE ALARM DEVICE TO BE ABANDONED IN PLACE FOR REMOVAL DURING BUILDING DEMOLITION. TYPICAL FOR ALL FIRE ALARM DEVICES WITHIN AREA. 5 EXISTING DATA OUTLET TO BE DISCONNECTED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING DATA OUTLET FROM SOURCE AND TO REMOVE CABLE(S) BACK TO MDF/IDF; EXISTING DATA OUTLET TO BE ABANDONED IN PLACE FOR REMOVAL DURING BUILDING DEMOLITION. TYPICAL FOR ALL DATA OUTLETS WITHIN AREA.
- 6 EXISTING CLOCK TO BE DISCONNECTED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING CLOCK FROM SOURCE AND TO REMOVE CABLE BACK TO NEXT ACTIVE DEVICE; EXISTING CLOCK TO BE ABANDONED IN PLACE FOR REMOVAL DURING BUILDING DEMOLITION. TYPICAL FOR ALL CLOCKS WITHIN AREA.
- P EXISTING SPEAKER TO BE DISCONNECTED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING SPEAKER FROM SOURCE AND TO REMOVE CABLE BACK TO INTERCOM HEADEND; EXISTING SPEAKER TO BE ABANDONED IN PLACE FOR REMOVAL DURING BUILDING DEMOLITION. TYPICAL FOR ALL SPEAKERS WITHIN AREA.
- 8 EXISTING CAMERA TO BE DISCONNECTED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING CAMERA FROM SOURCE AND TO REMOVE CABLE BACK TO CAMERA HEADEND; EXISTING CAMERA TO BE ABANDONED IN PLACE FOR REMOVAL BURING BUILDING DEMOLITION. TYPICAL FOR ALL CAMERAS WITHIN AREA.

 9 EXISTING PANEL TO BE DISCONNECTED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING PANEL FEEDER AT SOURCE AND REMOVE FEEDER CONDUCTORS, OVERHEAD RACEWAY, AND SUPPORTS COMPLETE BACK TO SOURCE; PANEL TO BE ABANDONED IN PLACE FOR REMOVEL DURING BUILDING DEMOLITION.

ARCHITECTURAL DESIGN INC.

2020 E. Washington Boulevard Suite 200 Fort Wayne, Indiana 46803 PH: 260.424.4830 www.viridian-design.net

CERTIFICATION



All Concepts, ideas, design elements, plans, and details as shown on this document are the sole property of Viridian Architectural Design, Inc. and shall not be used for any purpose without prior expressed written consent. The Owner shall be permitted to retain

copies for information and reference.

DATE **09/24/2024**

PH 2

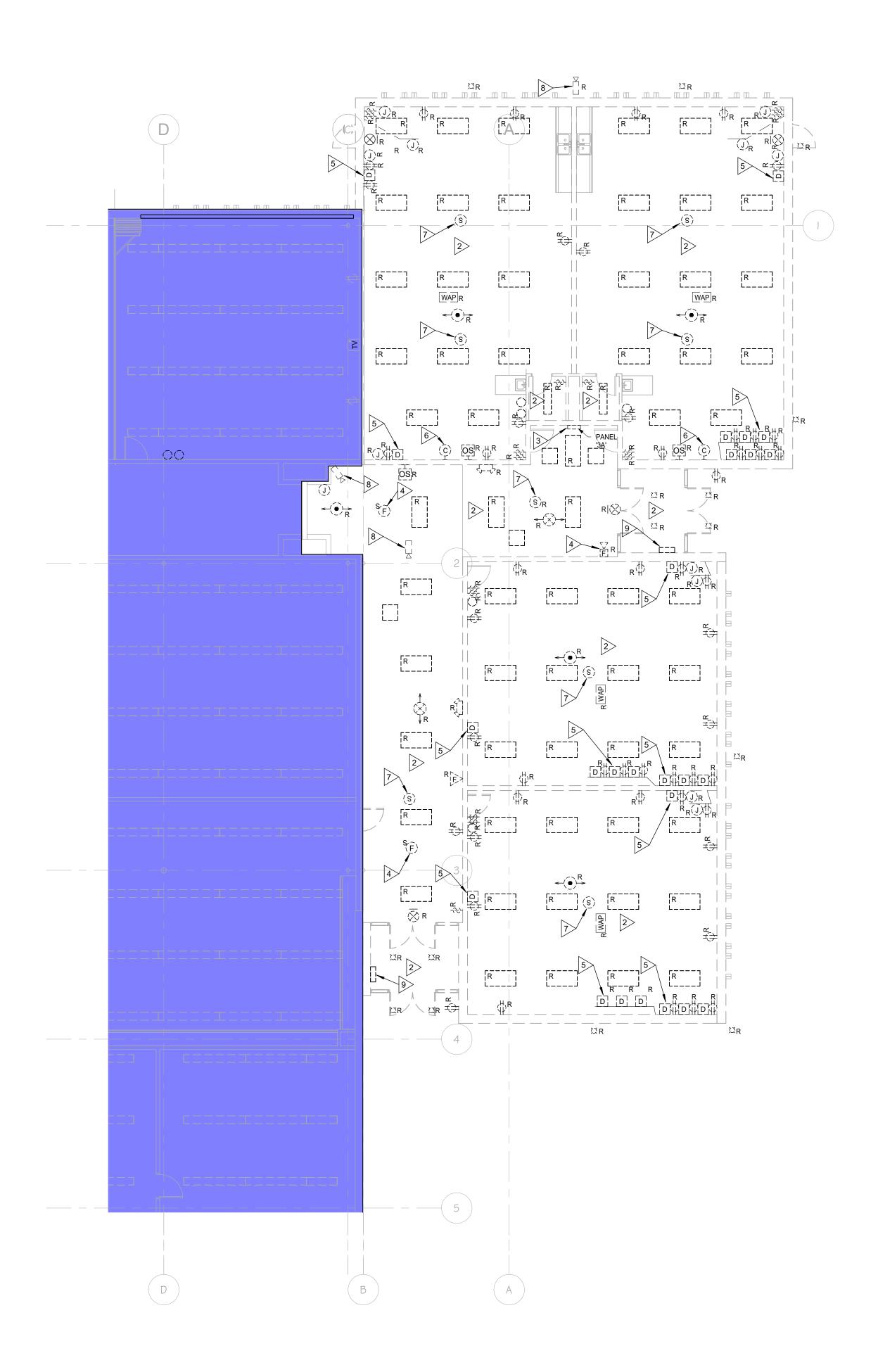
KEY PLAN

PH 1 ALT 5 ALT 2

ALT 3 ALT 1

ELECTRICAL DEMOLITION PLAN - ALTERNATE 4

ED1.7



ELECTRICAL DEMOLITION LOWER LEVEL PLAN - ALTERNATE 4

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

1 EXISTING RECEPTACLE TO REMAIN; REFER TO 'ELECTRICAL POWER PLAN - ALTERNATES 3 & 6' FOR NEW BRANCH CIRCUIT REQUIREMENTS.

2> EXISTING BRANCH CIRCUIT TO REMAIN; REFER TO 'ELECTRICAL POWER PLAN - ALTERNATES 3 & 6' FOR NEW BRANCH CIRCUIT > ALTERNATE 03: EXISTING BRANCH CIRCUIT TO REMAIN; REFER TO 'ELECTRICAL POWER PLAN - ALTERNATES 3 & 6' FOR NEW BRANCH CIRCUIT REQUIREMENTS.

ALTERNATE 06: EXISTING BRANCH CIRCUIT TO BE REMOVED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT BRANCH CIRCUIT AT RECEPTACLE TO REMAIN, REMOVE BRANCH CIRCUIT CONDUCTORS BACK TO NEXT DEVICE, AND ABANDON

ALTERNATE 03: EXISTING RECEPTACLE TO REMAIN; REFER TO 'ELECTRICAL POWER PLAN - ALTERNATES 3 & 6' FOR NEW BRANCH CIRCUIT REQUIREMENTS.

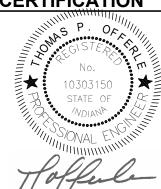
ALTERNATE 06: EXISTING RECEPTACLE TO BE REMOVED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO REMOVE RECEPTACLE, DISCONNECT BRANCH CIRCUIT, REMOVE BRANCH CIRCUIT CONDUCTORS BACK TO NEXT DEVICE TO REMAIN, AND ABANDON BOX AND CONDUIT IN PLACE. EXISTING SMOKE DETECTOR TO BE REMOVED AND RE-INSTALLED IN NEW LOCATION PROVIDE ALLABOR AND MATERIAL REQUIRED TO REMOVE SMOKE DETECTOR AND PREPARE INITIATE CIRCUIT FOR EXTENSION TO RE-INSTALLED SMOKE DETECTOR.

- 6> EXISTING LIGHT FIXTURE TO BE REMOVED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO REMOVE LIGHT FIXTURE AND BRANCH CIRCUIT CONDUIT AND CONDUCTORS COMPLETE BACK TO SOURCE.
- 7 EXISTING LIGHT SWITCH TO BE REMOVED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO REMOVE LIGHT SWITCH AND BRANCH CIRCUIT CONDUIT AND CONDUCTORS COMPLETE BACK TO SOURCE.
- 8 EXISTING FIRE ALARM SIGNAL TO BE REMOVED AND RE-INSTALLED IN NEW LOCATION; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO REMOVE FIRE ALARM SIGNAL AND PREPARE SIGNAL CIRCUIT FOR EXTENSION TO RE-INSTALLED FIRE ALARM SIGNAL.

ARCHITECTURAL DESIGN INC.

2020 E. Washington Boulevard Suite 200 Fort Wayne, Indiana 46803 PH: 260.424.4830 www.viridian-design.net

CERTIFICATION



All Concepts, ideas, design elements, plans, and details as shown on this document are the sole property of Viridian Architectural Design, Inc. and shall not be used for any purpose without prior expressed written consent. The Owner shall be permitted to retain

copies for information and reference.

10-08-24 Addendum #2

DATE 09/24/2024

—ALT 4

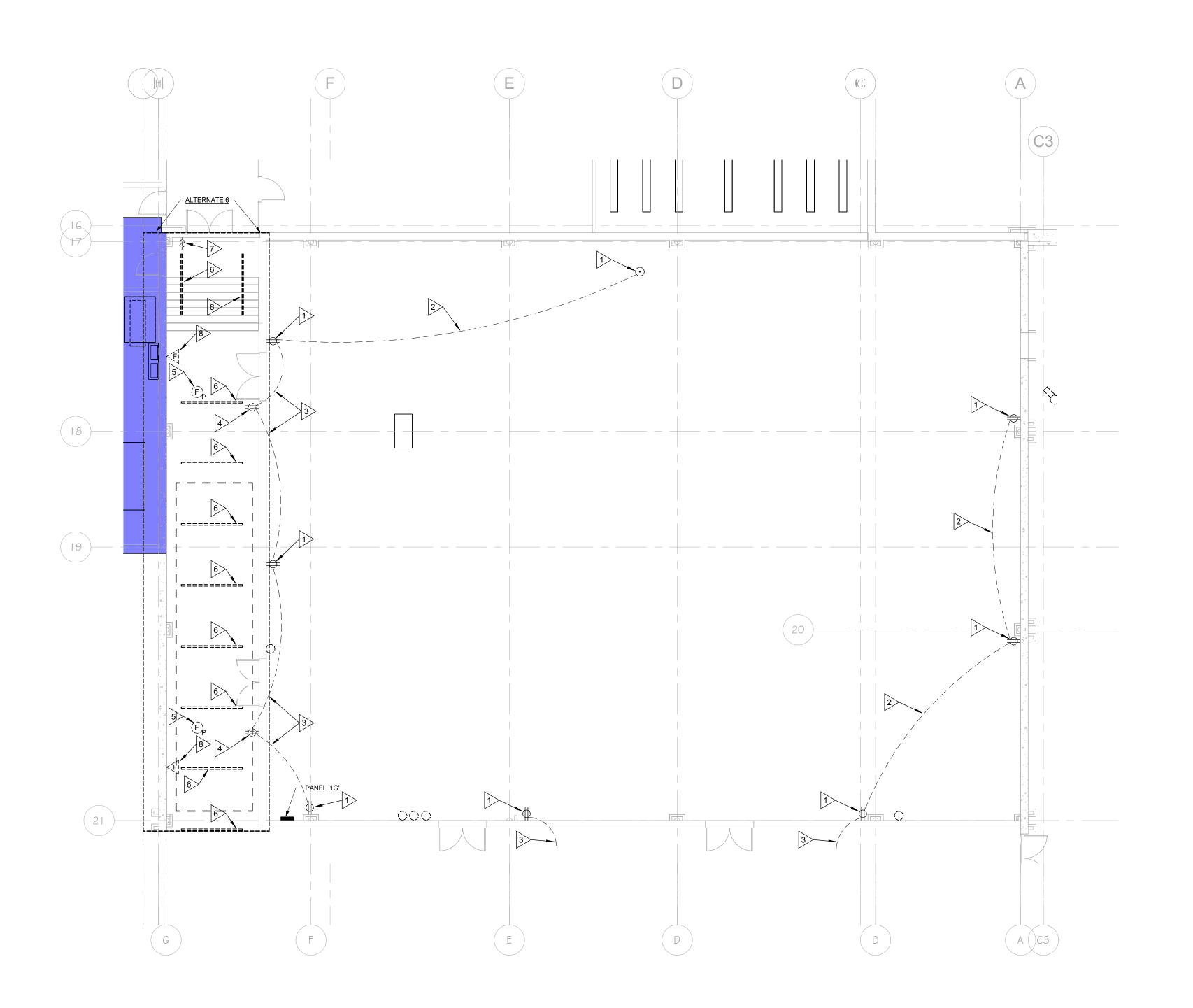
ALT 3
ALT 1

KEY PLAN

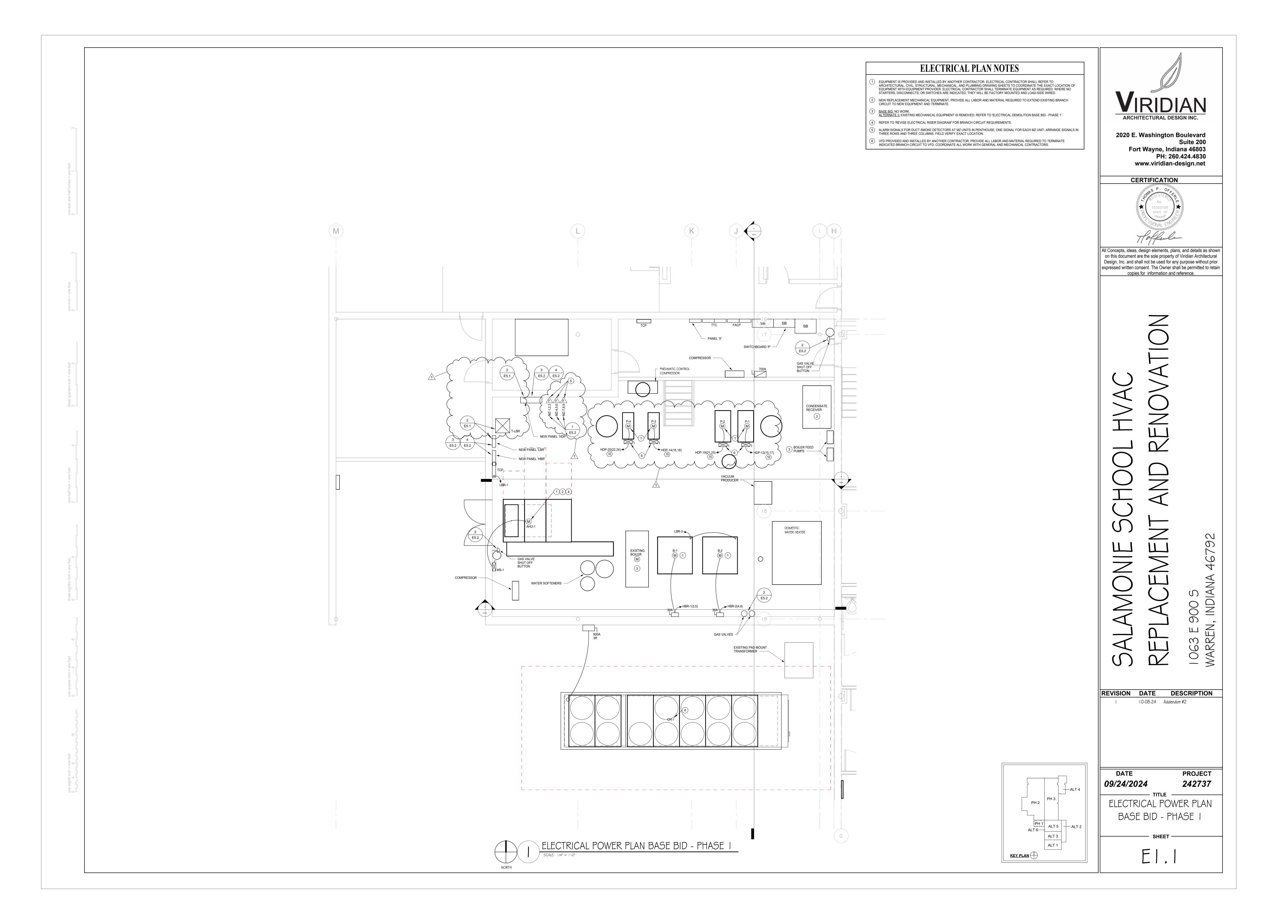
242737

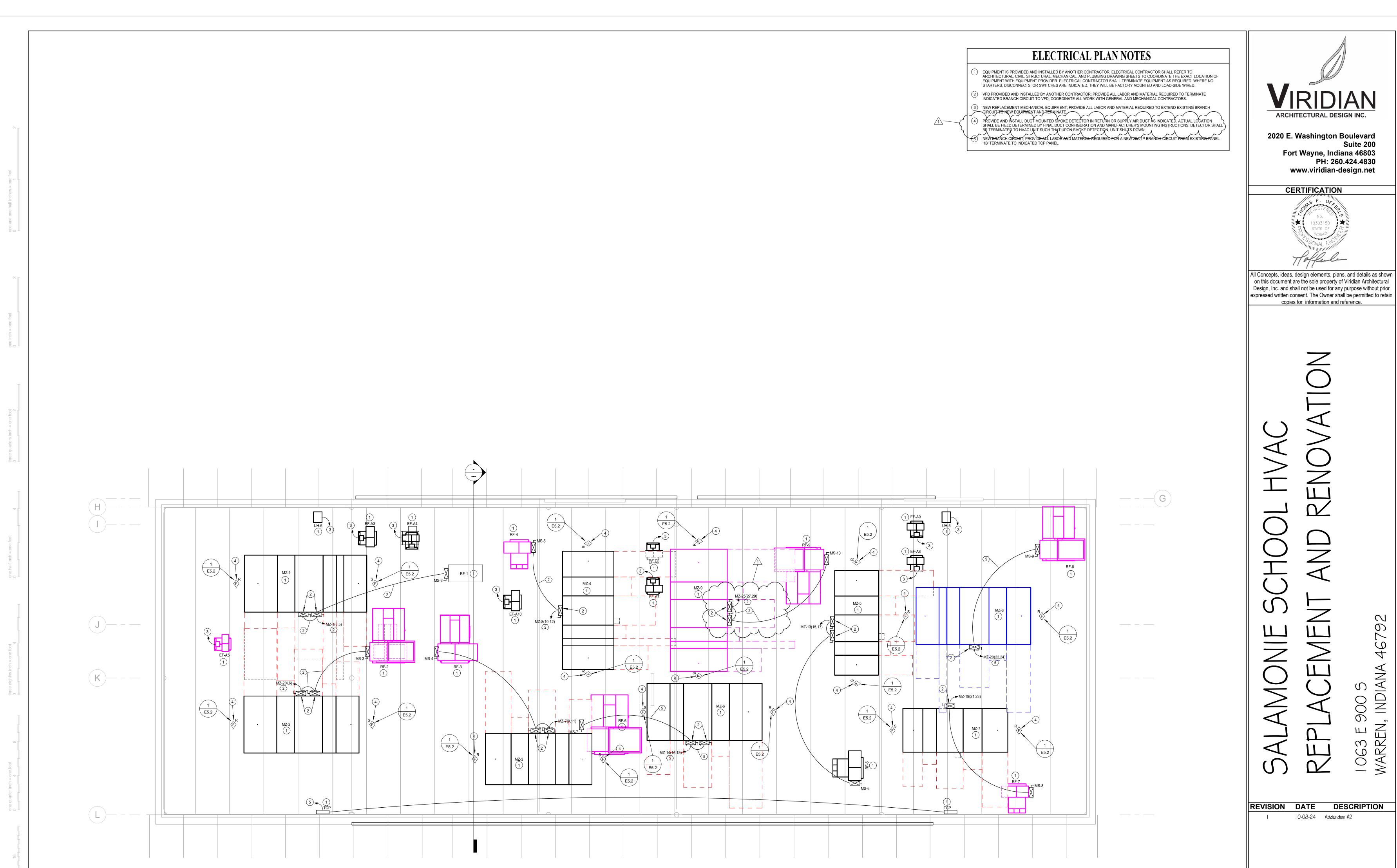
ELECTRICAL DEMOLITION PLAN - ALTERNATE 3 \$ 6

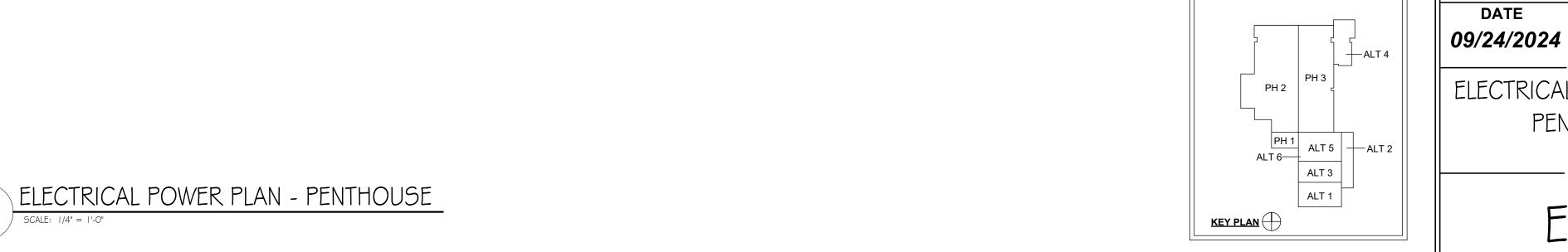
ED1.8











PENTHOUSE

PROJECT

242737

EXISTING LIGHTING BRANCH CIRCUIT TO BE REMOVED; PROVIDE ALL LABOR AND MATERIAL REQUIRED TO DISCONNECT EXISTING LIGHTING BRANCH CIRCUIT FROM EXISTING LIGHT FIXTURE, REMOVE CONDUIT BETWEEN LIGHT FIXTURE AND SOUTH GYMNASIUM WALL, AND REMOVE CONDUCTORS COMPLETE BACK TO SOURCE.

ARCHITECTURAL DESIGN INC.

2020 E. Washington Boulevard Suite 200 Fort Wayne, Indiana 46803 PH: 260.424.4830 www.viridian-design.net

CERTIFICATION



All Concepts, ideas, design elements, plans, and details as shown on this document are the sole property of Viridian Architectural Design, Inc. and shall not be used for any purpose without prior expressed written consent. The Owner shall be permitted to retain

copies for information and reference.

10-08-24 Addendum #2

1063 E 900 S WARREN, INDIANA 46792

09/24/2024

—ALT 4

PH 2

KEY PLAN

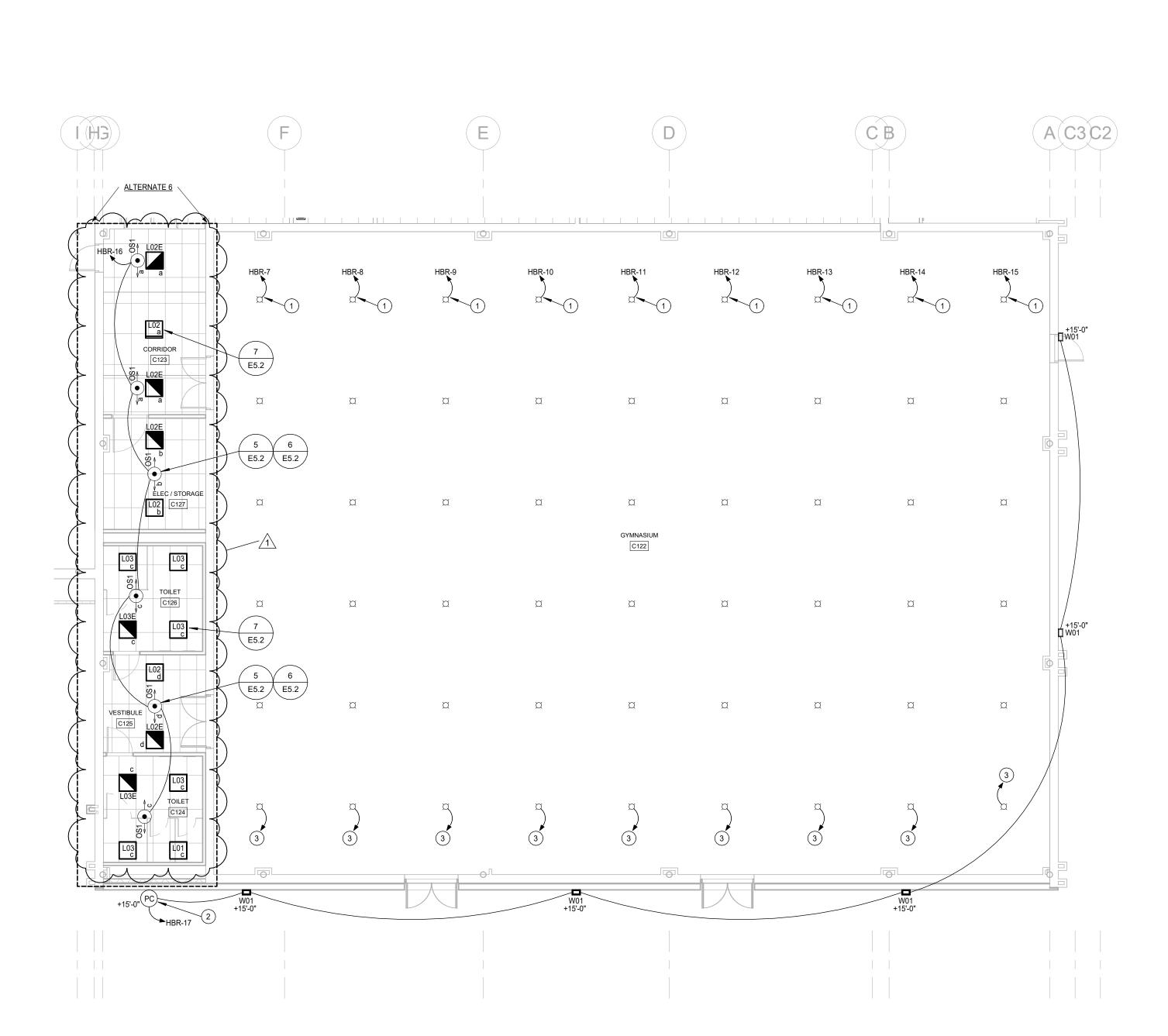
PH 1 ALT 5 ALT 2

ALT 1

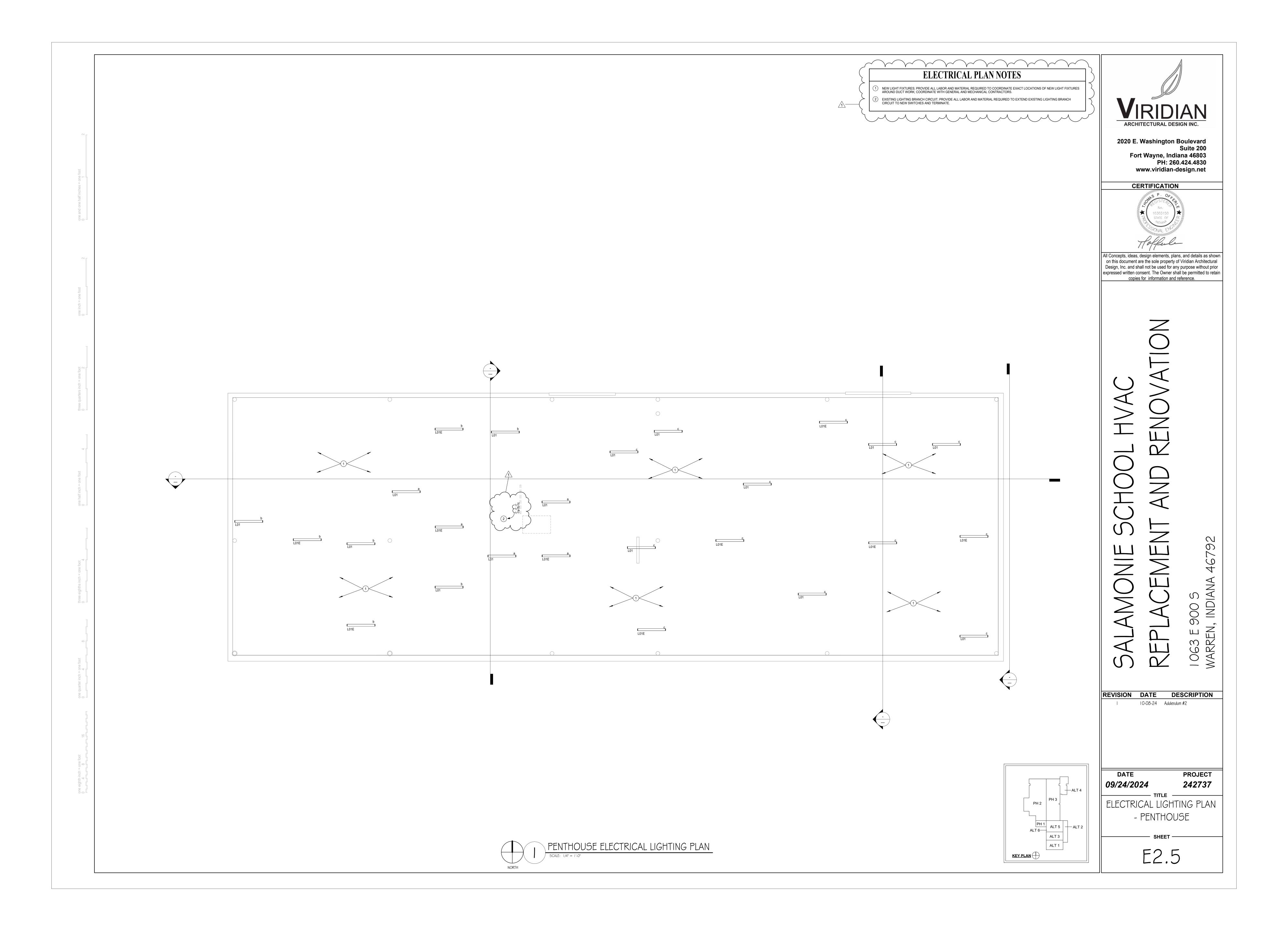
242737 ELECTRICAL LIGHTING PLAN - ALTERNATE 3 \$ 6

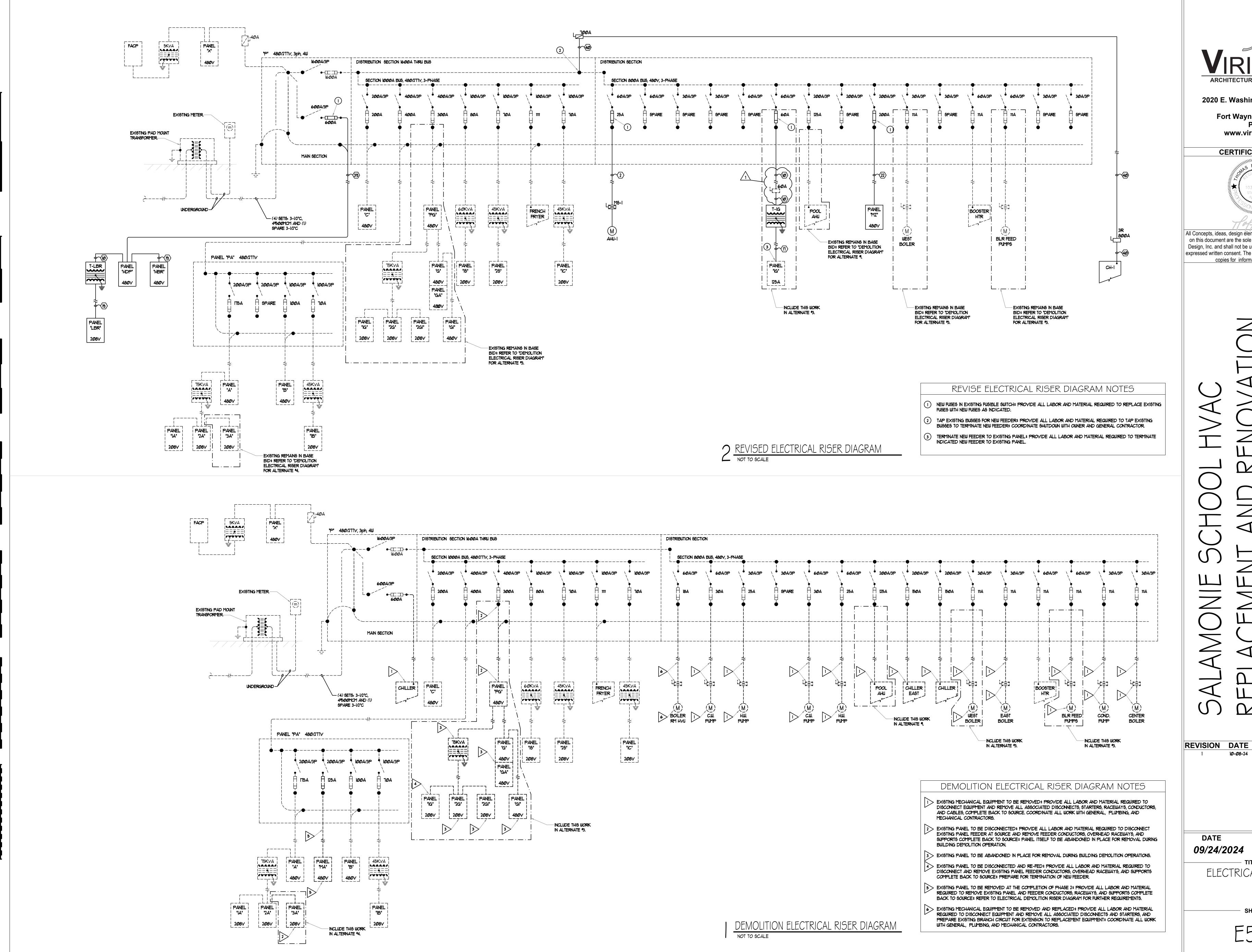
— SHEET ——

E2.3









2020 E. Washington Boulevard Fort Wayne, Indiana 46803 PH: 260.424.4830 www.viridian-design.net **CERTIFICATION**

All Concepts, ideas, design elements, plans, and details as shown Design, Inc. and shall not be used for any purpose without prior expressed written consent. The Owner shall be permitted to retain copies for information and reference.

DESCRIPTION

DATE

PROJECT 2024.0002

SHEET