

ADDENDUM NO. 1

September 22, 2023

**Carmel High School Polytechnic Addition & Renovation
520 East Main Street
Carmel, IN 46032**

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated August 31, 2023, by Fanning Howey Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-2 and attached Fanning Howey Associates Addendum No. 1, dated September 21, 2023, consisting of 18 items and 5 pages; New Project Manual Section: 22 34 00 – Fuel Fired Domestic Water Heaters; Revised Project Manual Sections: 27 1 00 – Communications Equipment Room Fittings and 27 11 00 TM – Manufacturer's Material List; and 52 Revised Drawing Sheets.

A. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

Paragraph 3.03 BID CATEGORIES

A. BID CATEGORY NO. 1 – GENERAL TRADES

Add the following General Clarifications:

17. Responsible for all wood framing required for lockers.
18. Responsible for offsite storage for any lockers or equipment that is called out to be salvaged and reinstalled.

J. BID CATEGORY NO. 10 – MECHANICAL & PLUMBING

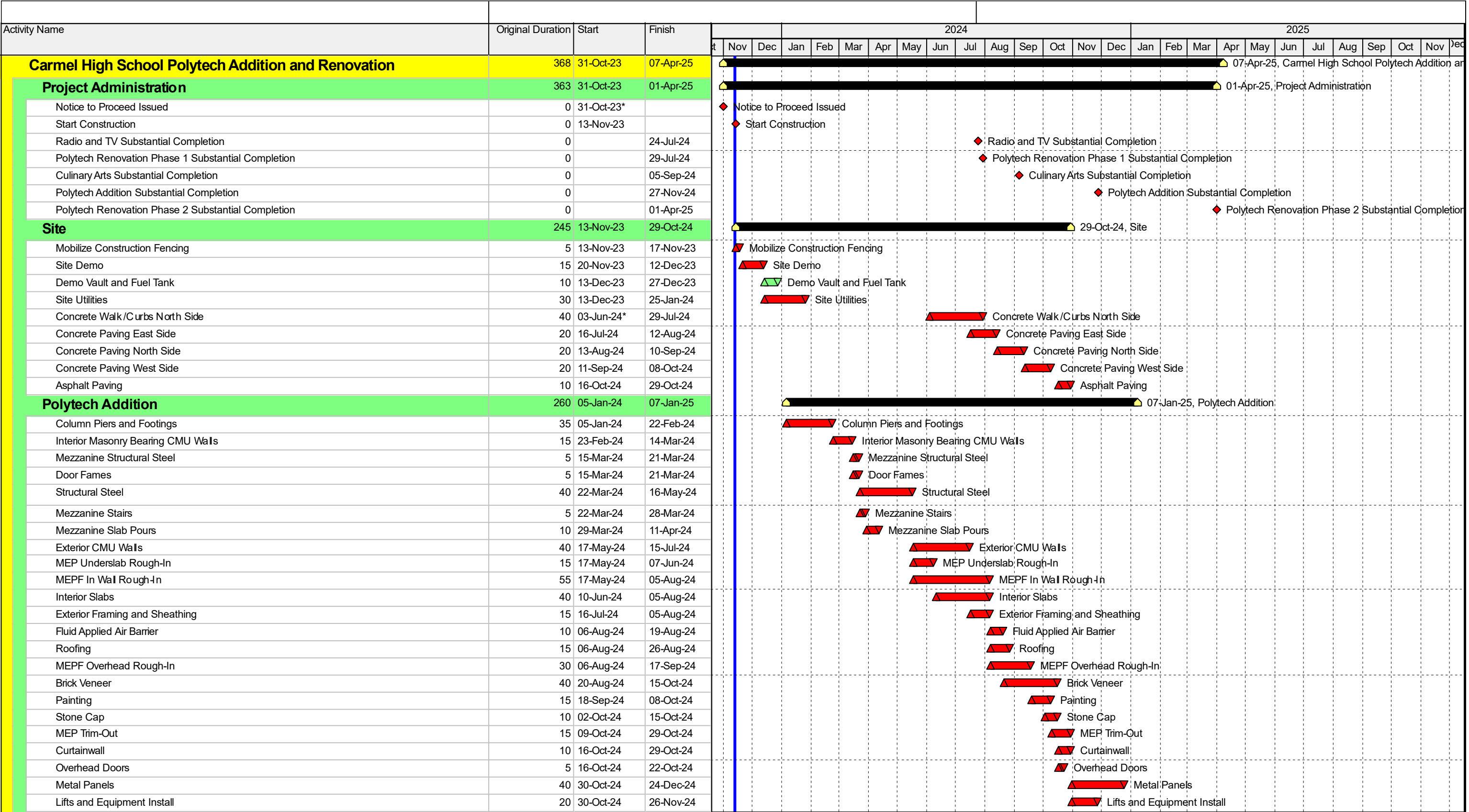
Add the following Specification Section:

Section 22 34 00 – Fuel Fired Domestic Water Heaters

B. **SPECIFICATION SECTION 01 32 00 - SCHEDULES AND REPORTS**

Paragraph 1.03 GUIDELINE SCHEDULE

C. CHS Polytechnic Addition and Renovation Guideline Schedule for Contractor reference.



				2024												2025														
Activity Name				Original Duration	Start	Finish	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Flooring	5	17-Jul-24	23-Jul-24																										
	Substantial Completion	0	24-Jul-24																											
	Punch List	5	24-Jul-24	30-Jul-24																										
	Final Completion/Owner Occupancy	0		30-Jul-24																										
Culinary Arts				182	05-Jan-24	19-Sep-24																								
	Footings for Storage/Walk-In	5	05-Jan-24	11-Jan-24																										
	Concrete Slab for Storage/Walk-In	5	12-Jan-24	18-Jan-24																										
	Masonry Bearing Walls	10	19-Jan-24	01-Feb-24																										
	Steel Beams and Decking	10	02-Feb-24	15-Feb-24																										
	Brick Veneer	10	16-Feb-24	29-Feb-24																										
	Storefront Entrance	5	01-Mar-24	07-Mar-24																										
	Roofing	5	01-Mar-24	07-Mar-24																										
	Walk In Cooler/Freezer	20	28-May-24*	24-Jun-24																										
	Interior Demo	10	28-May-24*	10-Jun-24																										
	Underslab Plumbing	5	11-Jun-24	17-Jun-24																										
	MSDW	10	11-Jun-24	24-Jun-24																										
	Overhead MEPF	15	11-Jun-24	01-Jul-24																										
	Kitchen Exhaust Hood	5	11-Jun-24	17-Jun-24																										
	Slab Infills	3	18-Jun-24	20-Jun-24																										
	Painting	5	02-Jul-24	09-Jul-24																										
	Ceiling Grid	5	10-Jul-24	16-Jul-24																										
	Sheet Vinyl Flooring	5	17-Jul-24	23-Jul-24																										
	MEPF Trim Out	10	24-Jul-24	06-Aug-24																										
	Ceiling Tile	5	07-Aug-24	13-Aug-24																										
	Kitchen Equipment Install	10	14-Aug-24	27-Aug-24																										
	Kitchen Equipment MEP Connections	5	28-Aug-24	04-Sep-24																										
	Substantial Completion	0	05-Sep-24																											
	Punch List	10	06-Sep-24*	19-Sep-24																										
	Final Completion/Owner Occupancy	0		19-Sep-24																										
Polytech Renovation Phase 2				76	23-Dec-24	07-Apr-25																								
	Selective Demo	10	23-Dec-24*	03-Jan-25																										
	Underslab Plumbing Rough-In	5	06-Jan-25	10-Jan-25																										
	Footings	8	06-Jan-25	15-Jan-25																										
	Structural Steel	10	16-Jan-25	29-Jan-25																										
	Slab Infill	5	30-Jan-25	05-Feb-25																										
	MEPF Rough-In	20	06-Feb-25	05-Mar-25																										
	Masonry Walls	10	06-Feb-25	19-Feb-25																										
	Door Frames	5	13-Feb-25	19-Feb-25																										
	Painting	10	20-Feb-25	05-Mar-25																										
	Epoxy Flooring	10	06-Mar-25	19-Mar-25																										
	Ceiling Grid/Lights CAD Lab	3	06-Mar-25	10-Mar-25																										
	Terrazzo Flooring	10	06-Mar-25	19-Mar-25																										
	Casework	5	11-Mar-25	17-Mar-25																										
	Soft Good Flooring	3	18-Mar-25	20-Mar-25																										

Activity Name		Original Duration	Start	Finish	2024												2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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ADDENDUM NO. 1

Carmel High School Polytechnic Addition and Renovation

Project No. 221165.01

Carmel Clay Schools
Carmel, Indiana

Index of Contents

Addendum No. 1, 18 items, 5 pages

New Project Manual Section: 22 34 00 – Fuel Fired Domestic Water Heaters

Revised Project Manual Sections: 27 11 00 – Communications Equipment Room Fittings, 27 11 00 TM –
Manufacturer's Material List

Revised Drawing Sheets: S1.02, S1.03, S2.01, S2.02, S2.03, S3.03, S4.01, S4.03, S5.01, S5.02, AD2.01,
A1.01, A1.02, A1.03, A1.06, A2.01, A3.01, A5.02, A5.03, A5.04, A5.05, A6.01, A9.01, A9.03, PD.01, PD.02,
P2.00, P2.01, P2.02, P2.03, P2.04, P3.01, P3.02, P4.01, M3.01, M3.02, M5.01, M5.04, ED.01, ED.02, E1.01,
E3.01, E3.05, E4.01, E4.02, E5.01, E5.02, E6.01, E6.02, E7.02, E8.01 and T3.01

Date: September 21, 2023

FANNING/HOWEY ASSOCIATES, INC.
ARCHITECTS/ENGINEERS/CONSULTANTS



Paul A. Miller, License No. AR10800161
Expiration Date: 12/31/2023

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated August 31, 2023 for Carmel High School Polytechnic Addition and Renovations for Carmel Clay Schools, 5201 East Main Street, Carmel, Indiana 46033; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.

This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, TABLE OF CONTENTS

- A. Book 3, Page 00 01 10-1, DIVISION 23: Change Section Title of 23 36 00 – Air Terminal Units to “Section 23 36 00 – Variable Air Volume Terminals”.
- B. Book 3, Page 00 01 10-2, DIVISION 27: Change Section Title of 27 01 00 – Operation and Maintenance of Communication Systems to “Section 27 01 00 – Operation Manuals of Communication Systems”.
- C. Book 3, Page 00 01 10-2, DIVISION 27: Change Section Title of 27 51 17 – Classroom Sound Systems to “Section 27 51 17 – Sound Reinforcement Systems”.

ITEM NO. 2. NEW PROJECT MANUAL SECTION(S)

- A. New Project Manual Section 22 34 00 – Fuel Fired Domestic Water Heaters is included with and hereby made a part of this Addendum.

ITEM NO. 3. REVISED PROJECT MANUAL SECTIONS

- A. Section 27 11 00 – Communications Equipment Room Fittings has been revised, dated 9/21/23, and is included with and hereby made a part of this Addendum.
- B. Section 27 11 00 TM – Manufacturers Material List has been revised, dated 9/21/23, and is included with and hereby made a part of this Addendum. This Manufacturer's Material List replaces original List identified as 27 15 53 TM included in Project Manual.

ITEM NO. 4. PROJECT MANUAL, SECTION 04 20 00 – UNIT MASONRY

- A. Add 2.4, D., as follows:
 - D. Integral Water Repellent: Provide units made with integral water repellent for exterior exposed units. Water repellent concrete masonry units shall comply with performance criteria of NCMA TEK 19-07. Any deviations from the information included in this TEK should be clearly articulated.
 - 1. Integral Water Repellent: Liquid polymeric, integral water-repellent admixture that does not reduce flexural bond strength. Units made with integral water repellent, when tested as a wall assembly made with mortar containing integral water-repellent manufacturer's mortar additive according to ASTM E 514, with test period extended to 24 hours, show no visible water or leaks on the back of test specimen.

- a. Products:
 - 1) Dry-Block; GCP Applied Technologies, Inc.
 - 2) MasterPel 240; Master Builder Solutions.
 - 3) Acme-Hardesty Co., Acme-Shield Plus Admixture; Cargill.
 - 4) KreteControl 202 or KreteGuard 300; Krete Industries.
 - 5) Eucon Blocktite; Euclid Chemical Co.
 - 6) RainBloc; ACM Chemistries Inc.
- C. Add 2.6, B., 3., a., as follows:
 - “a. Provide 7-5/8 inch long units where soldier course is indicated on Drawings.”
- D. Add 2.7, M., as follows:
 - M. Water-Repellent Admixture: In the mortar used to place concrete masonry units that have an integral water-repellent admixture, provide water-repellent admixture that conforms to ASTM C1384 and is of the same brand and manufacturer as the concrete masonry unit’s integral water-repellent. Coordinate the selection with the masonry unit manufacturer.
 - 1. Products: Subject to compliance with requirements, provide products by one of the following:
 - a. Dry-Block Mortar Admixture; GCP Applied Technologies.
 - b. MasterPel 240MA or MasterPel 210D; Master Builders Solutions.
 - c. Gard Mortar Mix; Krete Industries.
 - d. Blocktite Mortar Admixture; Euclid Chemical Co.
 - e. Rain Bloc; ACM Chemistries Inc.
 - f. Acme-Hardesty Co., Acme-Shield Plus Admixture; Cargill.
 - 2. Use mortar admixture, matched with CMU admixture, should be used in all mortar to ensure the highest level of water repellency of CMU masonry wall. Contractor shall document proper usage.
- E. Add 2.15, J., as follows:
 - J. Use integral water repellent admixture in mortar at all exterior concrete masonry unit wythe locations.

ITEM NO. 5. PROJECT MANUAL, SECTION 06 16 00 - SHEATHING

- A. Article 2.6, C: Add “, Class A,” between “thermal insulation” and “with” in paragraph.”

ITEM NO. 6. PROJECT MANUAL, SECTION 06 64 00 – PLASTIC PANELING

- A. Article 2.3: Add “(PSP)” at end of Article title.

ITEM NO. 7. PROJECT MANUAL, SECTION 07 42 13.23 – METAL COMPOSITE MATERIAL WALL PANELS

- A. Add 2.3, B., 1., as follows:
 - “1. Steel strapping: Manufacturer’s standard steel strapping as required for attachment of system components when substrate material is not solid.”

ITEM NO. 8. PROJECT MANUAL, SECTION 07 71 00 – ROOF SPECIALTIES

A. Add 2.8, A., 6., a., as follows:

- “a. Fascia Extension: Formed of same material and profile to match existing. Provide continuous hold-down cleat.”

ITEM NO. 9. PROJECT MANUAL, SECTION 09 66 23 – RESINOUS MATRIX TERRAZZO FLOORING

A. Add 2.5, C., 2., as follows:

- “2. Sloped transition edge strip for exposed edge of terrazzo system where adjacent finish floor is below top of new terrazzo.”

ITEM NO. 10. PROJECT MANUAL, SECTION 09 67 10.10 – FLUID-APPLIED EPOXY FLOORING

A. Add 1.1, A., 1., b., as follows:

- “b. Clear epoxy coating.”

B. Replace 2.1, A., as follows:

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
1. Stonhard, Inc.
 2. Key Resin Company
 3. Sherwin Williams
 4. Dur-A-Flex Inc.
 5. Tnemec
 6. PPG Flooring

C. Article 2.2, A: Delete “Basis of Design” product in its entirety.

D. Add 2.2, A., 1., a., as follows:

- “a. Provide clear products where indicated in List of Finishes.”

F. Add 2.2, C., 2., a., as follows:

- “a. Provide non-pigmented aggregate where clear product finish is indicated in List of Finishes.”

G. Add 2.2, D., 1., as follows:

- “1. Provide clear epoxy top coat where clear product finish is indicated in List of Finishes.”

ITEM NO. 11. PROJECT MANUAL, SECTION 09 96 00 – HIGH PERFORMANCE COATINGS

A. Delete 3.9, A., and C., in their entirety.

ITEM NO. 12. PROJECT MANUAL, SECTION 10 51 13 – METAL LOCKERS

A. Add 1.1, A., 2., as follows:

- “2. Removal and reinstallation of existing lockers including construction of new wood base.”

B. Add 2.3, E., as follows:

“E. Wood Framing: Treated wood blocking, framing members, and fasteners as outlined in Division 06 Section “Rough Carpentry” for new locker base assembly.”

C. Add 2.4, P., 1., b., as follows:

“b. Provide custom color to match existing lockers where indicated.”

ITEM NO. 13. PROJECT MANUAL, SECTION 12 32 16 – MANUFACTURED PLASTIC-LAMINATE FACED (EDUCATIONAL) CASEWORK

A. Delete 2.7, A., 2., and 3., in their entirety.

B. Replace 2.7, A., 4., as follows:

“4. Specialty Countertop Support: Rakks Bracket EH series and Richelieu Heavy Duty Brackets as indicated on Drawings.”

ITEM NO. 14. PROJECT MANUAL, SECTION 22 13 16 – SANITARY, WASTE, AND VENT PIPING SYSTEM

A. Add 2.4, L., as follows:

“L. Floor Sink “FS-1”: Provide a 12 inch by 12 inch by 8 inch floor drain sink with square nickel bronze top with deep seal ‘P’ trap, 1/2 inch grate, aluminum sediment bucket. Size as described on the Drawings.”

ITEM NO. 15. PROJECT MANUAL, SECTION 22 13 23 – SANITARY WASTE INTERCEPTORS

A. Article 2.2: Change “Model: GB-75” at beginning to “Model: GB-500”.

ITEM NO. 16. REVISED DRAWING SHEETS

A. Drawing Sheets: S1.02, S1.03, S2.01, S2.02, S2.03, S3.03, S4.01, S4.03, S5.01, S5.02, AD2.01, A1.01, A1.02, A1.03, A1.06, A2.01, A3.01, A5.02, A5.03, A5.04, A5.05, A6.01, A9.01, A9.03, PD.01, PD.02, P2.00, P2.01, P2.02, P2.03, P2.04, P3.01, P3.02, P4.01, M3.01, M3.02, M5.01, M5.04, ED.01, ED.02, E1.01, E3.01, E3.05, E4.01, E4.02, E5.01, E5.02, E6.01, E6.02, E7.02, E8.01 and T3.01 have been revised, dated 9/21/22 and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

ITEM NO. 17. DRAWING SHEETS NO. A7.01 – A7.02

A. Equipment General Notes: Revise notes to read as follows:

“F. (MH) indicates mop holder refer to A1.07.

N. Removal and temporary placement of all existing vocational shop equipment to be provided under separate contract.”

B. Equipment Notes: Revise keynotes to read as follows:

- "2. Existing lockers to remain. Electrostatically repaint inside and out to match new lockers.
- 10. Fabric wrapped acoustic wall panels on all walls, refer to interior elevations for details.
- 19. Remove and store existing lockers for reinstallation. Demolish existing wood base and construct new wood base to match existing height. Recess new wood base approximately ½ inch on sides and 1 inch on front to accept new terrazzo base. Reinstall existing lockers in same location.
- 20. Remove and store existing lockers for reinstallation. Demolish existing wood base and construct new wood base to match existing height. Recess new wood base approximately ½ inch on sides and 1 inch on front to accept new terrazzo base. Reinstall existing lockers in same location."

ITEM NO. 18. DRAWING SHEET NO. A8.03

- A. C124A: Wall finish shall read "W:P-1".

END OF ADDENDUM

SECTION 22 34 00 - FUEL-FIRED DOMESTIC WATER HEATERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following fuel-fired water heaters:
 - 1. Natural gas-fired condensing tankless water heaters.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type and size of water heater indicated. Include rated capacities, operating characteristics, furnished specialties, and accessories.
- B. Shop Drawings: Diagram power, signal, and control wiring.

1.4 INFORMATIONAL/QUALITY ASSURANCE/CONTROL SUBMITTALS

- A. Product Certificates: For each type of commercial and instantaneous water heater, signed by product manufacturer.
- B. Source quality-control test reports.
- C. Field quality-control test reports.
- D. Warranty: Special warranty specified in this Section.

1.5 CLOSEOUT DOCUMENTS

- A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
 - 1. Operation and Maintenance Data: For water heaters to include in emergency, operation, and maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Source Limitations: Obtain same type of water heaters through one source from a single manufacturer.
- B. Product Options: Drawings indicate size, profiles, and dimensional requirements of water heaters and are based on the specific system indicated. Refer to Division 01 Section "Product Requirements."
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- D. ASME Compliance:
 - 1. Where ASME-code construction is indicated, fabricate and label commercial water heater storage tanks to comply with ASME Boiler and Pressure Vessel Code: Section VIII, Division 01.
 - 2. Where ASME-code construction is indicated, fabricate and label commercial, finned-tube water heaters to comply with ASME Boiler and Pressure Vessel Code: Section IV.

- E. Comply with NSF 61, "Drinking Water System Components - Health Effects; Sections 1 through 9" for all components that will be in contact with potable water.

1.7 COORDINATION

- A. Coordinate size and location of concrete bases with Architectural and Structural Drawings.

1.8 WARRANTY

- A. Warranty Period(s): From date of Substantial Completion:
 - 1. Provide basis-of-design manufacturer's standard warranty but no less than 8 years heat exchanger parts and labor and 5 year parts only for remainder of the unit.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Navien

2.2 NATURAL GAS-FIRED CONDENSING TANKLESS WATER HEATER

- A. Natural gas-fired, condensing, wall-mounted water heaters:
 - 1. Steel chassis with dual stainless steel heat exchangers, premixed burner, negative pressure gas valve, dual venturi, water holding reservoir, and a condensate collector.
 - 2. Certified by CSA to the latest edition of ANSI Standard Z21.10.3/CSA 4.3.
 - 3. Forced draft, direct vent.
 - 4. Electronic ignition.
 - 5. 15-150 PSI water pressure.
 - 6. 3.5-10.5 inches W.C. inlet gas pressure.
 - 7. Low NOx: less than 20 PPM at 3% oxygen.
 - 8.
- B. Controls:
 - 1. Internal factory installed electronic operating and safety controls complete with keypad and LCD display and diagnostics.
 - a. Monitor inlet and outlet temperatures.
 - b. Sensing and controlling flow rate to setpoint.
 - c. Control air-fuel ratio to maintain combustion efficiency.
 - d. Cascade controls to control up to 16 units
 - e. Safeties.
 - 1) Flame Sensor.
 - 2) High limit sensors.
 - 3) Overheat prevention.
 - 4) Freeze protection.
 - 5) Fan motor rotation detection.
- C. Venting
 - 1. Provide complete venting and direct vent combustion air Complete system, ASTM A 959, Type 29-4C stainless steel, CPVC, PVC, or polypropylene as recommended by water heater manufacturer, pipe, vent terminal, thimble, indoor plate, vent adapter, condensate trap and dilution tank, and sealant.
 - 2. Combustion-Air Intake: Complete system, stainless steel, CPVC, PVC, or polypropylene as recommended by water heater manufacturer, pipe, vent terminal with screen, inlet air coupling, and sealant.

- D. Start-Up:
1. Complete operating and start-up instructions shall be furnished with system. Manufacturer to provide factory authorized start-up at job site. System shall meet or exceed ASHRAE 90.1-2010. Installation shall meet and/or exceed all factory requirements and recommendations.
 2. Refer to Drawings for heater location and orientation. Each Heater shall be equipped with its own aquastat and capable of operating by itself.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install and place in operation the water heater system as shown on the Drawings, complete with piping, supports, circulating pumps, etc., and as recommended by the manufacturer. System shall meet or exceed state and local codes.
- B. Provide shut-off valves and unions entering and leaving heater. In addition, provide for multiple heaters, balancing valves in entering line with entering and leaving gauges, and balance for equal flow through each heater.
- C. Provide all piping specialties as denoted on details, or as required by water heater manufacturer.
- D. Install water heaters level and plumb, according to layout drawings, original design, and referenced standards. Maintain manufacturer's recommended clearances. Arrange units so controls and devices needing service are accessible.
- E. Install gas water heaters according to NFPA 54.
- F. Install gas shutoff valves on gas supplies to gas water heaters without shutoff valves.
- G. Install gas pressure regulators on gas supplies to gas water heaters without gas pressure regulators if gas pressure regulators are required to reduce gas pressure at burner.
- H. Install automatic gas valves on gas supplies to gas water heaters, if required for operation of safety control.
- I. Install combination temperature and pressure relief valves as required by water heater manufacturer. Use relief valves with sensing elements that extend into tanks. Extend commercial-water-heater, relief-valve outlet full size with copper piping in continuous downward pitch, and discharge by positive air gap onto closest floor drain.
- J. Install water heater drain piping as required by water heater manufacturer to and discharge by positive air gap into open drains or over floor drains. Install hose-end drain valves at low points in water piping for water heaters that do not have tank drains. Refer to Division 22 Section "Domestic Water Piping Specialties" for hose-end drain valves.
- K. Install thermometer on outlet piping of water heaters. Refer to Division 22 Section "Meters and Gauges for Plumbing Piping" for thermometers.
- L. Install pressure gauge(s) on inlet and outlet piping of commercial, fuel-fired water heater piping. Refer to Division 22 Section "Meters and Gauges for Plumbing Piping" for pressure gauges.
- M. Install piping-type heat traps on inlet and outlet piping of water heater storage tanks without integral or fitting-type heat traps.
- N. Fill water heaters with water.
- O. Charge expansion tanks tanks with air.

3.2 CONNECTIONS

- A. Piping installation requirements are specified in other Division 22 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Install piping adjacent to water heaters to allow service and maintenance. Arrange piping for easy removal of water heaters.

3.3 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections. Report results in writing.
- B. Perform the following field tests and inspections and prepare test reports:
 - 1. Leak Test: After installation, test for leaks. Repair leaks and retest until no leaks exist.
 - 2. Operational Test: After electrical circuitry has been energized, confirm proper operation.
 - 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- C. Remove and replace water heaters that do not pass tests and inspections and retest as specified above.

3.4 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain instantaneous and commercial water heaters. Refer to Division 01 Section "Demonstration and Training."

END OF SECTION 22 34 00

SECTION 27 11 00 - COMMUNICATIONS EQUIPMENT ROOM FITTINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes, but is not limited to the following:
 - 1. Free-standing equipment cabinets
 - 2. Server cabinet
 - 3. Wall-mount hinged sectional equipment cabinet
 - 4. Hinged floor equipment cabinet
 - 5. Equipment racks
 - 6. Uninterruptible Power Supply (UPS)
 - 7. Power strip
 - 8. Four post rack
 - 9. Power distribution system
 - 10. File server equipment
 - 11. Consolidation point
 - 12. Telecom rooms cable trays
 - 13. Miscellaneous items
- B. Related section includes the following:
 - 1. Division 01 General Requirements
 - 2. Division 26 Electrical
 - 3. Division 27 Communications
 - 4. Division 28 Electronics Safety and Security

1.3 DESCRIPTION OF WORK

- A. Provide labor, material, equipment, cabinets, racks, UPS's, wire managements, shelves, tie wraps, Velcro and accessories necessary for a complete installation of the communication equipment rooms as described in this section and as shown on the drawings.
- B. The Contractor shall coordinate the extension of the electrical service to each communications cabinet or rack with the Electrical Contractor.

1.4 QUALITY ASSURANCE

- A. See section - "Common Work Results for Communications" for more information.
- B. All equipment must be UL listed.
- C. All equipment and installation shall comply with latest ANSI/NFPA-70 National Electric Code.
- D. All equipment shall comply with the latest ANSI-J-STD-607 grounding and bonding standards.
- E. All equipment installations shall comply with the latest BISC (TDM) standards.
- F. All equipment racks and cabinets shall comply with the latest ANSI-EIA-310 standard.
- G. All UPS shall meet IEEE C62.41 standard.

- H. Provide labeling per ANSI/EIA/TIA-606 requirement and in accordance with the Owner and the Technology Consultant.

1.5 SUBMITTALS / RECORD DRAWINGS / MAINTENANCE MANUAL

- A. Shop Drawings
 - 1. The Contractor shall provide shop drawings of all equipment. Drawings shall indicate the interconnection of equipment and wiring external to the various patch panels (MC/ER and TRs). These drawings shall be included in the submittal to the Architect/Engineer for approval.
 - 2. Complete and comprehensive shop drawings shall be submitted to the Architect/Engineer for review.
 - 3. Drawings shall be provided in latest revision of AutoCAD.
 - 4. Provide equipment isometric with labeling.
 - 5. Every port shall be labeled per specs.
- B. See Common Work Results For Communications section 270500 for more submittal requirements.
- C. Provide record drawings and maintenance manual, per the section titled "Operation and Maintenance of Communications Systems".

1.6 WARRANTY

- A. Components, parts, and assemblies supplied by the Cabling Contractor/manufacturer shall be guaranteed against defects in materials and workmanship as specified in the section titled "Demonstration, Training, and Warranty of Communications Systems", commencing upon system start. Warranty services shall be provided by the installer of the equipment manufacturer during normal working hours.

1.7 TRAINING

- A. Provide training as specified in the section titled "Demonstration, Training, and Warranty of Communications Systems".

PART 2 - PRODUCTS

2.1 TECHNOLOGY EQUIPMENT CABINET

- A. All communications equipment shall be housed in free-standing steel protective cabinets.
- B. The equipment cabinets shall have solid sides, plexi-glass front doors and vented rear doors. Doors shall be lockable with all locks keyed alike.
- C. The equipment cabinets shall be 24 inches or 30 inches wide by 42 inches deep and 83-1/8 inches high with leveling feet.
- D. The equipment cabinets shall be steel construction with fully welded corners.
- E. The equipment cabinets shall have black powder coat finish.
- F. Provide integrated, top-mounted fan rated at 450 - 550 CFM in each equipment cabinet. Provide internal and external fan guards. Fan noise rating shall be less than 49 dBA.
- G. Provide one vertical power strip with 20 amp receptacles in each cabinet.
- H. Provide horizontal wire management devices between each patch panel and switch. Horizontal and vertical slotted openings and plastic wire holding clips.

- I. Provide vertical wire management panels as show. Provide three (3) extra wire management units in each TR/MC/ER room.
- J. If equipment cabinets are ganged together the inner side panels are not required. Cabinets shall be securely bolted together both front and back. Cables within the cabinets shall be properly supported.
- K. Provide copper bus bar (1/8 inch thick and threaded 10-32, 1 inch wide x 44 space) in each cabinet.
- L. Provide 100 spare mounting screws for each equipment cabinet.
- M. Provide 100 spare cage nuts for each equipment cabinet.
- N. Provide mounting rails. (Confirm mounting rail type, EIA tapped or cage nuts)
- O. Provide vented panels
- P. Provide blank panels
- Q. Provide three spare adjustable vented shelves in the MC/ER. Shelf shall adjust from 23 to 32 inches, with a weight capacity of 200 Lbs, steel with black powder finish.
 - 1. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.
- R. Provide three spare telescoping full depth heavy duty vented shelves in the MC/ER. Shelf shall adjust from 16 to 44 inches, with a weight capacity of 500 Lbs, 16 GA steel with durable black powder finish.
 - 1. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.
- S. Provide one heavy duty sliding shelf for MC/ER, full 14 " extension, heavy gauge steel with black powder finish, weight capacity of 50 Lbs.
 - 1. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.
- T. Equipment cabinets shall be UL listed.
- U. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.

2.2 WALL-MOUNTED HINGED SECTIONAL CABINET

- A. All communications equipment shall be housed in steel wall-mounted hinged sectional protective cabinets.
- B. The equipment cabinets shall have solid sides, plexi-glass front doors and vented rear doors. Doors shall be lockable with all locks keyed alike.
- C. The wall-mounted hinged sectional equipment cabinets shall be 24-1/4 inches wide by 26 inches deep and 39" inches high with dual pivoting system.
- D. The wall-mounted hinged sectional equipment cabinets shall be steel construction with fully welded corners.
- E. The wall-mounted hinged sectional equipment cabinets shall have powder coat finish, finish shall be black.
- F. Provide ultra quiet fans with 100 CFM in each wall-mounted hinged sectional equipment cabinet , fan shall have less than 27 dBA noise rating.

- G. Provide vertical power strip with 20 amp receptacles in each cabinet.
- H. At each wall-mounted hinged sectional equipment cabinet provide wire management devices between each patch panel. Horizontal and vertical slotted openings and plastic wire holding clips.
- I. Provide wire management panels as shown on the drawing. Provide two (2) extra wire management units in each wall hinged cabinet.
- J. Provide copper bus bar (1/8 inch thick and threaded 10-32, 2 inch wide x 12 space).
- K. Provide 100 spare mounting screws/cage nuts for each equipment cabinet.
- L. Wall-mounted hinged sectional equipment cabinet shall be UL listed.
- M. Provide mounting rails.
- N. Provide blocking in the walls as needed.
- O. Mount unit on painted 3/4" thick plywood.
- P. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.

2.3 TECHNOLOGY EQUIPMENT RACK

- A. All communication equipment shall be housed in steel or aluminum equipment racks.
- B. The equipment racks shall be 11 gauge steel channels.
- C. The equipment racks shall have powder coat black finish.
- D. The equipment racks shall be 19 inches wide.
- E. The equipment racks shall be 84 inches high.
- F. Provide wire management panels as shown on the drawing. Provide three (3) extra wire management units in each TR/MC/ER room.
- G. Provide copper bus bar (1/8 inch thick and threaded 10-32, 1 inch wide x 44 space) on each rack.
- H. Provide vertical power strip with 20A receptacle on each rack.
- I. The equipment racks shall have vertical cable management. (One on each side)
- J. The equipment racks shall have 3RU shelves.
 - 1. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.
- K. Provide wire management devices between each patch panel. Horizontal and vertical slotted openings and plastic wire holding clips.
- L. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.

2.4 4-POST TECHNOLOGY/SERVER RACK

- A. All switches and patch panels shall be housed in 4 post racks.
- B. The server racks shall be aluminum or steel construction.

- C. The server racks shall have powder coat black finish.
- D. The server racks shall be 19 inches wide.
- E. The server racks shall be 42 inches deep.
- F. The server racks shall be 84 inches high.
- G. Provide wire management panels as shown on the drawing. Provide three (3) extra units in each four post rack.
- H. Provide copper bus bar (1/8 inch thick and threaded 10-32, 1 inch wide x 44 space) bonded to rack.
- I. At each server rack, provide vertical wire management devices between each equipment rack. Front and rear horizontal slotted openings and plastic wire holding clips.
- J. Provide (5) 4-point vented shelves.
- K. Provide vertical power strip with 20 amp receptacles.
- L. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.

2.5 TECHNOLOGY RACK/CABINET MOUNTED UNINTERRUPTABLE POWER SUPPLY

- A. Provide rack mounted UPS in each TR or MC/ER cabinet or rack as specified.
- B. UPS shall be on-line double conversion type.
- C. UPS shall have an output voltage of 120 volts or 208V, as needed (verify in the field).
- D. UPS shall have an input voltage of 120 volts or 208V, as needed.
- E. The UPS shall have output receptacles as follows:
 - 1. 2000VA - (4) NEMA 5 – 20R
 - 2. 3000VA - (4) NEMA 5 – 20R
 - (1) NEMA L5 – 30R
 - 3. 2700VA – (2) NEMA L6 - 15R
 - (1) NEMA L6 – 20R
- F. UPS shall have sine wave waveform.
- G. UPS shall have maintenance free sealed lead acid battery.
- H. UPS shall have DB-9, RS-232; Smart SNMP card.
- I. Provide PC computer network card in the UPS for connection of the UPS to the data network.
- J. UPS shall have management software.
- K. UPS shall have control panel with LED status display.
- L. UPS shall have audible alarm.
- M. Provide rear mounted rails to support the UPS in the MC/ER cabinets and provide center mount shelf for equipment racks in each TR.
- N. UPS shall have two years warranty for labor and material.

- O. UPS shall be UL Listed 1778.
- P. Power cord on the 2,000VA to have a 5-20P plug with 5-20R receptacle.
- Q. Power cord on the 3,000VA to have L5-30P plug with L5-30R receptacle.
- R. Battery run time (minimum):
 - 1. 2000VA – 6 minutes at full load
- 14 minutes at 50% load
 - 2. 3000VA – 5 minutes at full load
- 16 minutes at 50% load
 - 3. 2700VA – 5 minutes at full load
- 16 minutes at 50% load
- S. Provide external battery cabinet, as shown in the telecommunication room/MC/ER Schedule.
- T. Provide one (1) spare 2,000 VA UPS.
- U. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.

2.6 POWER STRIPS

- A. Provide vertical power strip in each cabinet/rack as follows:
 - 1. 12-20 amp receptacles, 120 volts.
 - 2. Cord with NEMA 5-20P plug.
 - 3. 50 to 60 inches long.
 - 4. Single circuit.
 - 5. UL listed 1363.
- B. Provide horizontal power strip as follows (in the sound system cabinets):
 - 1. 6 – 20 amp receptacles
 - 2. Cord with NEMA 5 – 20 plug
 - 3. Single circuit
 - 4. UL listed 1419
- C. Unit shall be rack or cabinet mounted.
- D. Provide one (1) spare vertical power strip and one (1) spare horizontal power strip.
- E. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.

2.7 LADDER TRAY

- A. Provide 18 inch wide by 1-1/2 inch high sectional ladder tray under the ceiling and above the TR and MC/ER cabinet.
- B. Run ladder tray from the equipment cabinet/racks to the telephone terminal board.
- C. Provide factory fittings, and supports.
- D. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.

2.8 WATERFALL ACCESSORIES

- A. Provide cable management waterfall at each location where cable exits or enters the cable tray.
- B. See Manufacturers List Section 27 11 00TM for approved manufacturers and part numbers.

2.9 STACKABLE CABLE RACK SPACERS

- A. Provide stackable cable rack spacers in each telecommunication room in cable tray.
- B. Approved Manufacturer:
 - 1. Panduit CRx – xx Series
 - 2. Hubbell
 - 3. CPI
 - 4. Commscope
 - 5. B-Line

2.10 GROUNDING COMPONENTS

- A. Provide #4 green grounding conductors from the grounding bus on the TTB to each telecommunications cabinet/rack.
- B. Provide two hole ground lugs to meet J-STD-607A requirements

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install communications equipment room fittings as specified herein and as shown on the drawings.

3.2 LABELING AND MARKING

- A. Provide labeling and markings for all communications equipment cabinets/racks.
- B. Provide labeling for telecommunications rooms as follows:
 - 1. Black on white with TR # for each cabinet. (for example, TR.A1.1 fed from MC/ER-C1.1 panel A6-12)
- C. Section titled "Identifications for Communications Systems" for more information.

3.3 EQUIPMENT CABINETS

- A. At each telecommunication room provide communications equipment cabinets or racks as shown on the drawings and as specified here.
- B. The communication equipment cabinets shall be arranged as shown on the drawings:
- C. Provide complete equipment cabinet layout showing patch panels, wire management, and switches.
- D. Coordinate the extension of the electrical service from the electrical junction box located in the room to each communications cabinet/rack.

3.4 COMMUNICATION GROUNDING AND BONDING

- A. Provide grounding and bonding to each cabinet or rack with ground cable from the grounding bus bar in the TR and MC/ER to each cabinet/rack.
- B. The grounding conductor shall be insulated copper with minimum of #4 AWG.
- C. The grounding conductor shall be marked by distinctive green color.
- D. Provide a minimum of #4 ground cable from the communications room busbar to the following:
 - 1. Each communication cabinet/rack

2. Each file server cabinet/rack
3. Each audio-video cabinet/rack
4. Each voice communication switch (telephone)
5. Each service entrance device
6. Any other communications systems provided by this Contractor.

3.5 TELECOMMUNICATION ROOMS

- A. The data cable, the telephone cable, and the video control cable shall be terminated on RJ45 copper patch panels.
- B. The video coax cable shall be terminated with F-connectors on each end of the cable.
- C. Provide fire-rated plywood terminal board, (quantity as shown) 4 foot by 8 foot by 3/4 inches (minimum of 1) in each telecommunication room. (Paint to match wall.)
- D. Provide two (2) 4 inch sleeves with plastic bushings above each terminal board. (Verify exact location in the field).
- E. Provide ladder trays, as shown on the drawings.

3.6 MAIN CROSS CONNECT/EQUIPMENT ROOM (MC/ER)

- A. The data cable, the telephone cable, and the video control cable shall be terminated on RJ45 copper patch panels.
- B. Provide fire-rated plywood terminal board, two (2) 4 foot by 8 foot by 3/4 inches or four (4) 4 foot by 8 foot by 3/4 inches in the main MC/ER room. (Paint to match wall.)
- C. Provide two (2) 4 inch sleeves with plastic bushings above each terminal board. (Verify exact location in the field).
- D. Provide ladder trays, as shown on the drawings.
- E. Room A101A, MC/ER: Provide the following:
 1. Provide (1) four post technology / server equipment "racks" with all miscellaneous items.
 2. Bond to the building grounding system with #6 copper insulated ground wire.
 3. Provide ground bus.
 4. Provide (1) 12 port fiber optic patch panels. (SM)
 5. Provide (1) 12 port SC fiber coupling panels. (SM)
 6. Provide (1) 48 port copper patch panels for work area outlets.
 7. Provide (1) 24 port copper patch panels for IP cameras.
 8. Provide (1) 24 port copper patch panels for WAP.
 9. Provide (1) 2,000VA, 120V, 60Hz UPS, rack mounted.
 10. Provide horizontal and vertical wire management panels.
 11. Provide wire duct or wire management duct to bring cables from the ceiling to the equipment rack. (Conduits to be painted black to match cabinets).
 12. Provide (1) rack mounted vertical power strip, per cabinet.
 13. Provide shelves as specified.
 14. Provide space for data switches and chassis.
 15. Provide space for VoIP file server.
 16. Provide space for wireless controller.
 17. Provide one (1) 48 ports and two (2) 24 port spare copper patch panel(s).
 18. Provide ten (10) 1 meter SM fiber patch cords and ten (10) 3 meter SM fiber patch cords. (SC to SC)

END OF SECTION 27 11 00

PROJECT NAME	220114.00	DATE	3/8/2021
Carmel High School Performing Arts Additions and Renovations			
PROJECT NO.	220114.00	DATE	3/8/2021
271100 Communications Equipment Room Fittings (Items in bold are standard of quality and performance)			
Racks/Cabinets			
24"W x 36"D x 7" H Cabinet	Panduit		
24"W x 42"D x 7" H Cabinet	WMRK 4536	Hoffman	
24"W x 42"D x 7" H Cabinet	WMRK 4542	PS C2179B	
24"W x 48"D x 7" H Cabinet	WMRK 4548	PS S21611B	Leviton
30"W x 36"D x 7" H Cabinets	WMRK 4542	PS S21612B	Hubbell
30"W x 36"D x 7" H Cabinets	DRK19-44-36	PS C2189B	
30"W x 42"D x 7" H Cabinets	DRK19-44-42	PS C21810B	
7' Cabinet Fans/Guards	FAN-10/GUARD-10	A6AXFENG/AELTRBLD	H3FT110
Free-Standing 4' Equipment Cabinet	ERK-2725		
22"W x 25"D x 51" H Cabinet	ERK-2128		
22"W x 25"D x 36" H Cabinet	ERK-1628	PS C1278B	
Cabinet Fans/Guards	FAN/GUARD		
Wall-Mount Hinged Sectional			
36U spaces, 24"W 26"D x 68"H	DWR-35-26PD		
24U spaces, 24"W 26"D x 68"H	DWR-24-26PD		
18U spaces, 24"W 26"D x 39"H	DWR-18-26PD		
12U spaces, 24"W 26"D x 28"H	DWR-12-26PD		
Wall Mt Fan/Guards	DWR-FK26		
21U spaces, 24"W x 22"D x 44"H	DWR-21-22		
16U spaces, 24"W x 22"D x 35"H	DWR-16-22		
10U spaces, 24"W x 22"D x 25"H	DWR-10-22		
Wall Mt Fan/Guards	DWR-FK22		
Hinged Floor Cabinet			
40U, Space, 24"W x 32"D x 90 3/4"H	SR-40-32		
Hinged Floor Cabinet	SR-24-32		
Hinged Cabinet Fans/Guards	GFAN/GUARD		
Wall Mt Fan/Guards	DWR-FK32		
Technology Equipment Rack			
2-post Equipment Racks	RLA19-124FB		
4-post Adjustable Comm Racks	R4XX-XXXXB		
4-post Adjustable Server Racks	WMRK-4236SVR		
Square Punched, 19"Wx42"Dx84"H			
Wall Mounted Swing Rack			
Hardware Kit	SRF-20-24		
Low Profile Wall Cabinet	HP		
Adjustable Vented Shelf	WRP-6		
Heavy Duty Adjustable Vented Shelf	VDS		
Sliding Shelf	VSA-2744		
Vertical Wire Management	SS		
Horizontal Wire Management	CK-45		
Vertical Power Strips	HCN-2		
Horizontal Power Strips	PDT-20xXC-NS		
Light Duty Rack Shelf	U2		
Vented Light Duty Rack Shelf	RC-3		
Ground Ship	BB-44-1		
Ladder Tray			
12" Cable Tray	WG12BL1		
Waterfall Accessory	WGB1TMMFBL		
Rack Mounting Kit	WGSTRTKTL		
UPS			
1500VA	UPS-OL1500R		
2000VA	UPS-OL2000R		
3000VA	UPS-OL3000R		
External Battery	UPS-EBPR		
2000 VA	103002836-5591		
3000VA			

The bidder is responsible to verify that all part numbers meet the specifications. The bidder shall notify the Architect of any specification or part number discrepancies prior to bid date

PLEASE NOTE: Not all products are used, all part numbers and specifications for more information.

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



ARCHITECT

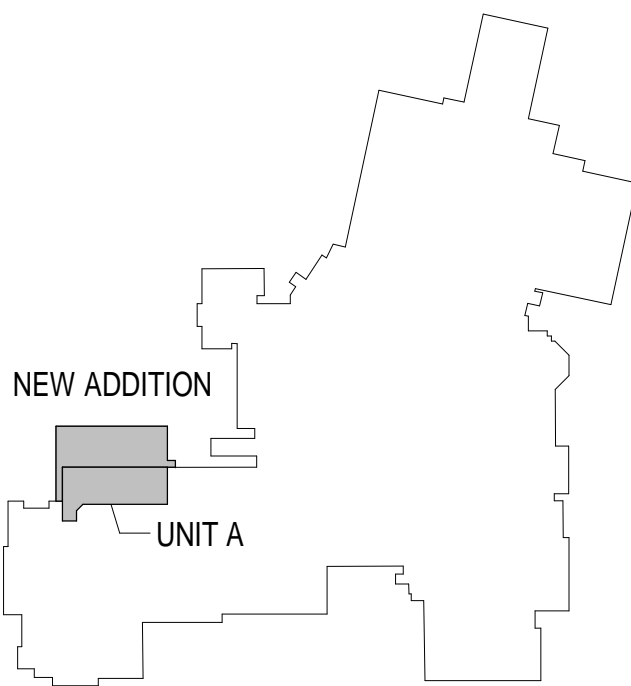
FANNING
HOWEY

317-848-0966 WWW.FHAI.COM
350 E. NEW YORK ST. SUITE 300, INDIANAPOLIS, IN 46204

STRUCTURAL ENGINEER

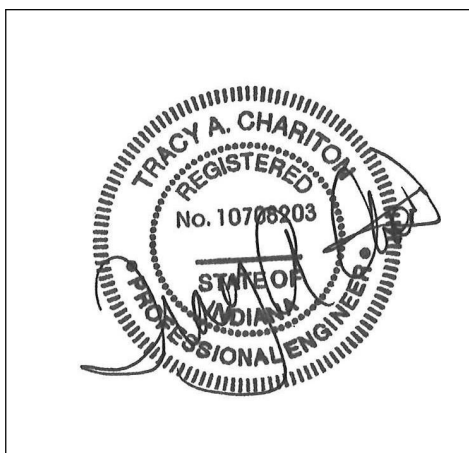


TLF, INC.
3901 West 66th Street, Suite 200
Indianapolis, Indiana 46226
Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No: 2023-119



KEY PLAN

100% CONSTRUCTION DOCUMENTS



DRAWN BY: JDR

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

UNIT A - SLAB AND MASONRY PLAN

S1.02

UNIT A - SLAB AND MASONRY PLAN

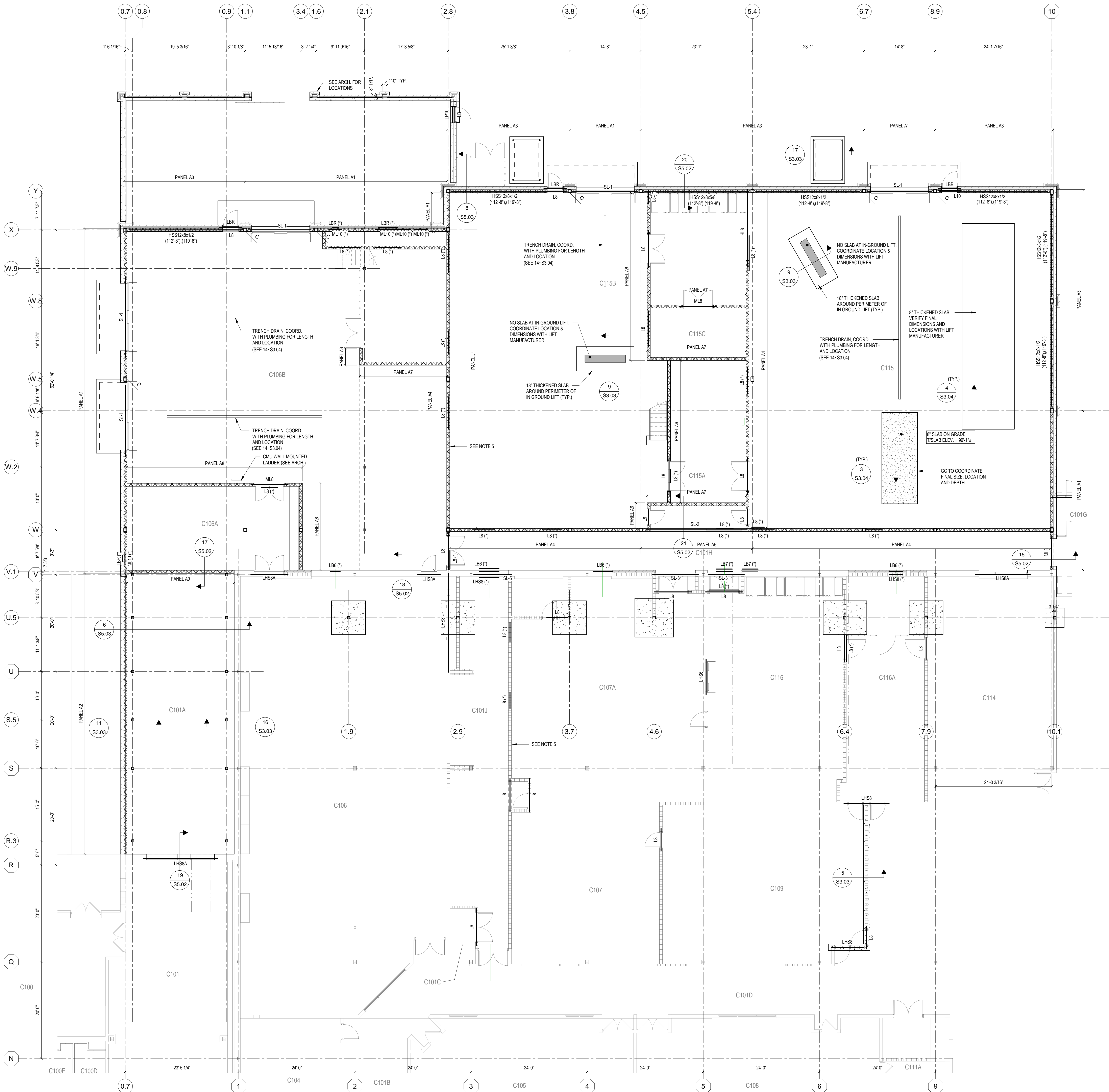
1/8" = 1'-0"



SLAB AND MASONRY PLAN NOTES:

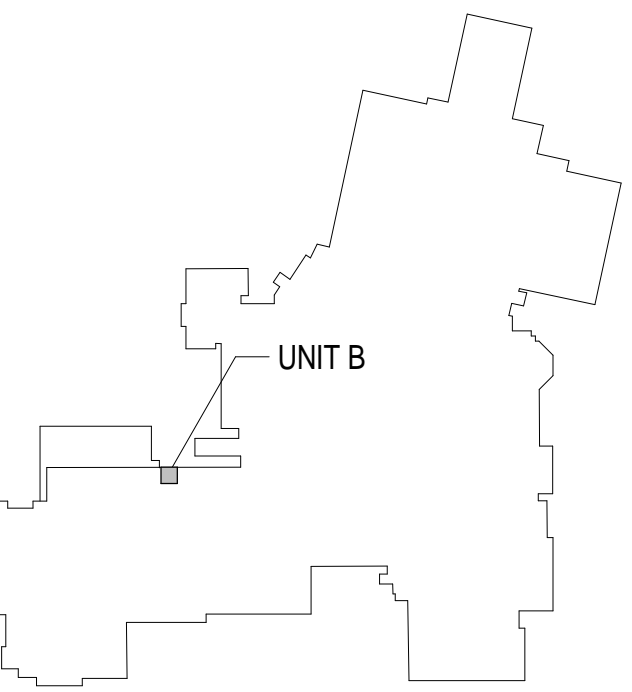
- SEE SHEET S0.01 FOR GENERAL NOTES.
- SEE S3.03, S3.04 AND S4.01 THROUGH S4.03 FOR TYPICAL SLAB AND MASONRY DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
- REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (852.88' U.S.G.S.).
- SLAB-ON-GRADE SHALL BE 6" THICK AND FLUSH WITH EXISTING FIRST FLOOR SLAB. U.O.N. 6" SLAB-ON-GRADE SHALL BE REINFORCED WITH #6@2.9W/2.9W WIRE MESH REINFORCING IN SHEET FORM. 8" SLAB-ON-GRADE SHALL BE REINFORCED WITH #4 AT 12" o.c. EACH WAY. 10" SLAB ON GRADE SHALL BE REINFORCED WITH #5 AT 12" o.c. EACH WAY. ALL SLABS SHALL BE PLACED ON VAPOR BARRIER OVER A MINIMUM OF 6" GRANULAR MATERIAL.
- ALL MASONRY WALLS AND MASONRY WALL INFILL SHALL BE LAID IN A STACKED BOND PATTERN.
- L/M, S/M, INDICATES MASONRY LINTEL. SEE SHEET S4.03.
- LBX INDICATES STEEL ANGLE LINTEL. SEE SHEET S4.03.
- SL-X INDICATES STEEL LINTEL. SEE SHEET S4.03. FOR SCHEDULE. VERIFY MASONRY OPENING AND ELEVATION WITH ARCHITECTURAL PLANS.
- BPX INDICATES BEARING PLATE REQUIRED. SEE S4.01.
- MPX INDICATES MASONRY PLASTER. SEE SHEET S4.01.
- CJ INDICATES CONTROL JOINT IN CMU. COORDINATE LOCATION WITH BONDING PATTERN AND WALL ELEVATION (SEE S4.02).
- (*) INDICATES LINTEL REQUIRED FOR MECHANICAL OPENING. ONLY A PORTION OF THESE LINTELS REQUIRED FOR MASONRY OPENINGS ARE SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL LINTELS REQUIRED FOR MECHANICAL OPENINGS WHETHER OR NOT SHOWN ON THE PLANS. COORDINATE NUMBER, SIZE, ELEVATION, AND LOCATION OF ALL LINTELS FOR MECHANICAL OPENINGS.
- SEE S4.03 FOR LINTELS IN NON-BEARING WALLS. SUBMIT SHOP DRAWINGS FOR REVIEW FOR LINTELS REQUIRED AT MECHANICAL OPENINGS IN BEARING WALLS AND OUTSIDE LIMITS OF S4.03.
- FOR MULTI-SPAN CONTINUOUS LINTELS, MAINTAIN 16" MINIMUM CMU BETWEEN OPENINGS (U.O.N.).
- SEE S4.01 FOR MASONRY WALL BRACING REQUIREMENTS.
- SEE MASONRY WALL ELEVATIONS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
- SEE THE PROJECT MANUAL FOR CONTRACTION AND CONSTRUCTION JOINT SPACING. THE CONTRACTOR IS ENCOURAGED TO SUBMIT A SLAB PLAN SHOWING ALTERNATE SPACINGS AND LOCATIONS THAT ADAPTS TO THEIR PLANNED CONSTRUCTION SEQUENCE.
- SEE ARCHITECTURAL PLANS FOR RAISED LOOKER BASES.
- PROVIDE LINTEL AT RECESSED FIRE EXTINGUISHER CABINET AND/OR ELECTRICAL PANEL BOARD. SEE TYPICAL CMU WALL OPENING AT RECESSED EQUIPMENT ON S4.02.
- LEGEND:

- INDICATES SLAB DEPRESSION FROM FINISHED FLOOR ELEVATION. SEE THE PROJECT MANUAL FOR REQUIRED DEPRESSION.
- PANEL XX
- INDICATES MASONRY WALL SUPPORTED ON FOOTING. SEE S4.01 FOR MASONRY WALL PANEL SCHEDULE.
- INDICATES THICKENED SLAB. SEE GC-S3.03.
- INDICATES END OF LINTEL SUPPORTED AT STEEL COLUMN.

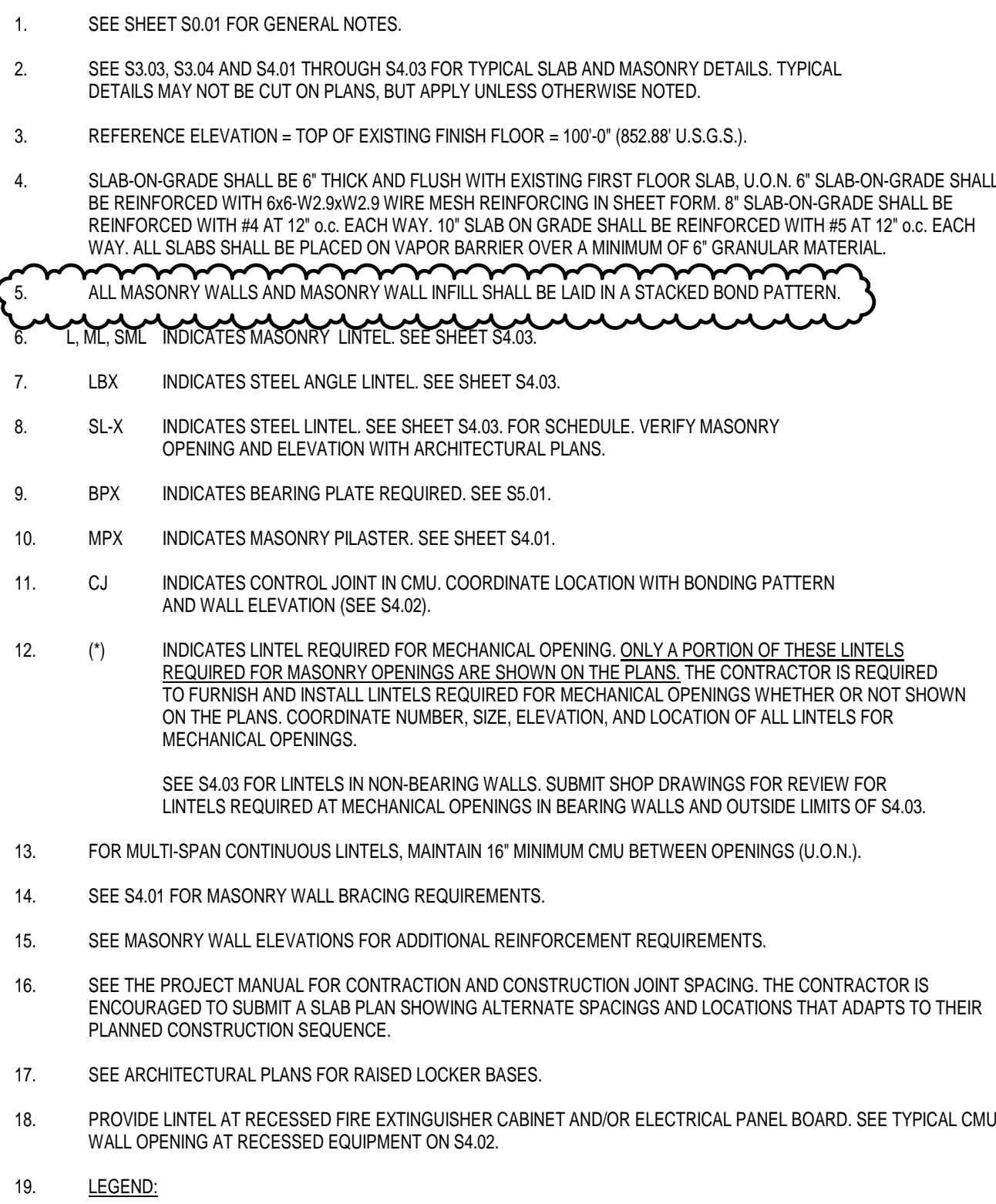


CARMEL CLAY SCHOOLS

STRUCTURAL ENGINEER

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S1.03



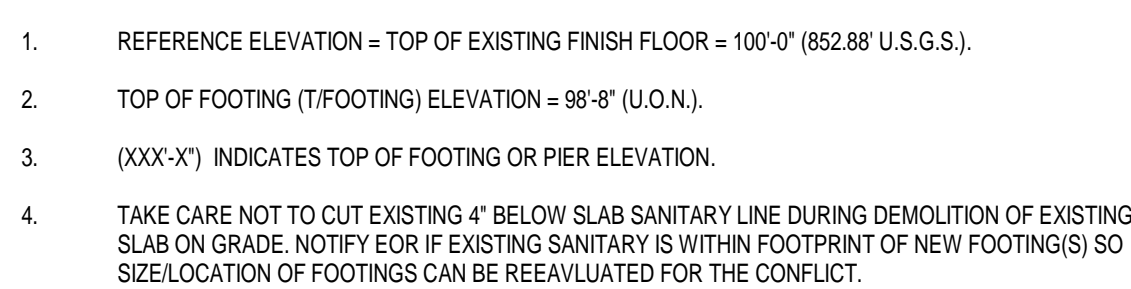
INDICATES SLAB DEPRESSION FROM FINISHED FLOOR ELEVATION. SEE THE PROJECT MANUAL FOR REQUIRED DEPRESSION.

PANEL XX

INDICATES MASONRY WALL SUPPORTED ON FOOTING. SEE S4.01 FOR MASONRY WALL PANEL SCHEDULE.

INDICATES THICKENED SLAB. SEE 6C-S3.03.

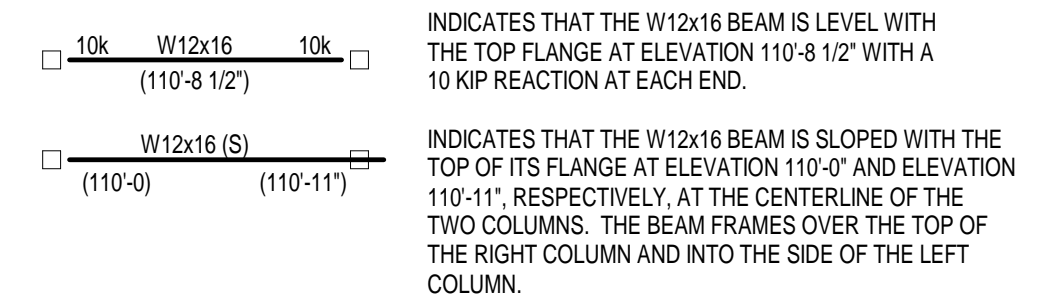
□ INDICATES END OF LINTEL SUPPORTED AT STEEL COLUMN



1. SEE SHEET S3.01 FOR GENERAL NOTES.
2. SEE S3.01 THROUGH S3.02 FOR FOUNDATION DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
3. CENTER WALL FOOTINGS UNDER WALLS UNLESS NOTED OTHERWISE.
4. FX, EFX INDICATES INTERIOR FOUNDATION F'X" OR EXTERIOR FOUNDATION EFX". SEE COLUMN FOOTING SCHEDULE ON S3.01.
5. ETF-X INDICATES EXTERIOR TRENCH FOOTING ETF-X". SEE TYPICAL EXTERIOR TRENCH FOOTING DETAIL ON S3.01.
6. WFX-X INDICATES INTERIOR WALL FOOTING WF-X". TYPICAL INTERIOR WALL FOOTING DETAIL ON S3.01.
7. RWFX INDICATES RETAINING WALL FOOTING RWFX". SEE TYPICAL RETAINING WALL DETAIL ON S3.01.
8. P1, P2, ETC. INDICATES CONCRETE PIER. SEE TYPICAL PIER DETAIL ON S3.01. TOP OF PIER ELEVATION = 99'-8" (I.O.D.).
9. MPI, MP2, ETC. INDICATES MASONRY PLASTER. SEE MASONRY PLASTER (MP).
10. SEE S3.01 FOR TYPICAL INTERIOR COLUMN FOOTING DETAIL.
11. SEE S-5.3.01 FOR TYPICAL COLUMN BASE.
12. SEE S-3.3.01 FOR TYPICAL COLUMN BASE PLATE.
13. FOOTINGS MAY BE EARTH-FORMED WHERE COHESIVE SOILS EXIST AT FOUNDATION ELEVATION. REFER TO THE GEOTECHNICAL ENGINEER'S REPORT FOR RECOMMENDATIONS. THE CONTRACTOR SHALL INCLUDE IN THEIR BID FORMING OF FOOTINGS WHERE REVIEW OF THE GEOTECHNICAL ENGINEER REPORT INDICATES EARTH-FORMING MAY NOT BE POSSIBLE.
14. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND PLUMBING LINES. SEE SHEET S3.02 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.
15. SEE S-6.3.03 FOR TYPICAL SLAB ON GRADE.
16. SEE S-7.3.03 FOR SLAB ISOLATIONS.
17. SEE ARCHITECTURAL PLANS FOR RAISED LOOKER BASES.
18. F.T. INDICATES FOOTING TRANSITION. SEE 11-S3.01.
19. F.S. INDICATES STEPPED FOOTING. SEE S3.01 FOR DETAILS.

INDICATES UNDERGROUND PLUMBING OR UTILITY LINE. VERIFY LOCATION AND ELEVATIONS. SEE S3.02 FOR REQUIREMENTS WHEN PLUMBING LINES CROSS FOUNDATIONS AT ALL ELEVATIONS.

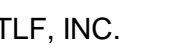
S2.01



CARMEL CLAY SCHOOLS

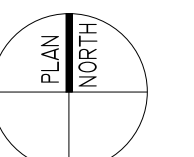
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STRUCTURAL ENGINEER



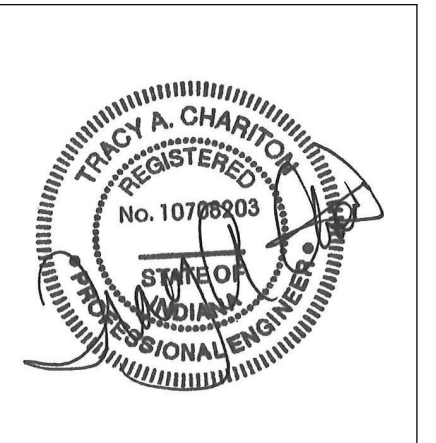
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NEW ADDITION



KEY PLAN

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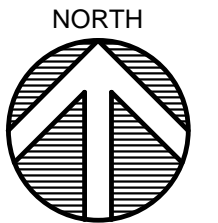
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PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

UNIT A - ROOF FRAMING PLAN

S2.02



PLAN NOTES:

1. REFERENCE ELEVATION = TOP OF EXISTING FINISH FLOOR = 100'-0" (852.88' U.S.G.S.).
2. TOP OF STEEL (T/STEEL) ELEVATION = 126'-0" (U.O.N.).
3. COORDINATE LENGTH AND LOCATION OF HOIST SUPPORT BEAM WITH EQUIPMENT PROVIDER.

FRAMING PLAN NOTES:

- | | |
|----|--|
| 1. | SEE SHEET \$0.01 FOR GENERAL NOTES. |
| 2. | SEE DRAWINGS \$5.01 THROUGH \$5.02 FOR STEEL FRAMING DETAILS. TYPICAL DETAILS MAY NOT BE CUT ON PLAN BUT APPLY UNLESS OTHERWISE NOTED. |
| 3. | SEE \$5.01 FOR TYPICAL STEEL FRAMING CONNECTIONS. |
| 4. | SEE \$4.01 FOR MASONRY WALL BRACING REQUIREMENTS |
| 5. | PROVIDE MINIMUM 1.3x1x1/4 (U.O.N.) ROOF EDGE SUPPORT ANGLES AT ALL ROOF EDGES AND ROOF EXPANSION JOINTS. |

BEAM LEGEND:

- | | |
|-------|--|
| (Y) | INDICATES DECK SUPPORT REQUIRED BETWEEN JOISTS. SEE EDGE OF DECK SUPPORT. |
| (S) | INDICATES SLOPED BEAM. ELEVATIONS AT ENDS ARE TOP OF SLOPED BEAM AT CENTERLINE COLUMN OR AT INTERSECTION WITH OTHER BEAMS. |
| (E) | INDICATES EXISTING FRAMING MEMBER. |
| BP | INDICATES BEARING PLATE. SEE BEARING PLATE SCHEDULE. |
| (T)CX | INDICATES THAT THE TOP CHORD OF THE JOIST IS TO BE EXTENDED. (SEE PLAN FOR LENGTH) |
| (DJB) | INDICATES DEEP JOIST BEARING. |
| (BC) | INDICATES BOLTED CONNECTION AT JOIST BEARING. |
| RV | INDICATES FRAME REQUIRED FOR ROOF VENT. SEE TYP. OPENING FRAME (RV). (VERIFY LOCATION WITH ROOF PLAN) |
| RD | INDICATES FRAME REQUIRED FOR ROOF DRAIN. SEE TYP. OPENING FRAME (RD). (VERIFY LOCATION WITH ROOF PLAN) |

- RH INDICATES FRAME REQUIRED FOR ROOF HATCH. SEE TYP OPENING FRAME (RH).
 FO INDICATES FRAME REQUIRED FOR FLOOR OPENING. SEE TYP OPENING FRAME (FO).
 PB INDICATES FRAME REQUIRED FOR POUR BOX OPENING.
 T4 INDICATES BEAM SPACE. SEE TYPICAL STEEL FRAMING DETAIL SC-01-01.
 R INDICATES DIRECTION OF FLOOR DECK SPAN (4" COMP. CONC. U.O.N.).
 R INDICATES DIRECTION OF 1 1/2" ROOF DECK SPAN (WR20, U.O.N.).
 INDICATES BEAM MOMENT CONNECTION.

10k W12x16 10k ☐
(110'-8 1/2")

INDICATES THAT THE W12x16 BEAM IS LEVEL WITH THE TOP FLANGE AT ELEVATION 110'-8 1/2" WITH A 10 KIP REACTION AT EACH END.

INDICATES THAT THE W12x16 BEAM IS SLOPED WITH THE TOP OF ITS FLANGE AT ELEVATION 110'-0" AND ELEVATION 110'-11", RESPECTIVELY, AT THE CENTERLINE OF THE

TWO COLUMNS. THE BEAM FRAMES OVER THE TOP OF THE RIGHT COLUMN AND INTO THE SIDE OF THE LEFT COLUMN.

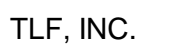
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CARMEL, IN 46032



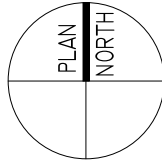
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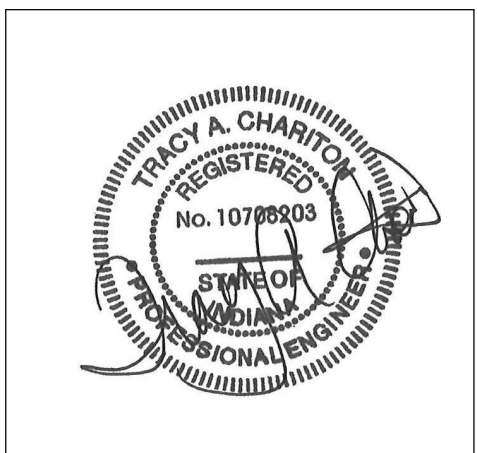
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Fax: 317-334-1552
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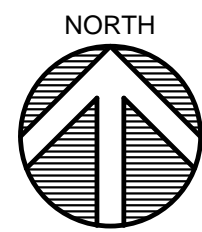
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PROJECT ISSUE DATE: 08/31/2023

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S2.03



1/8" = 1'-0"

- FRAMING PLAN NOTES:**

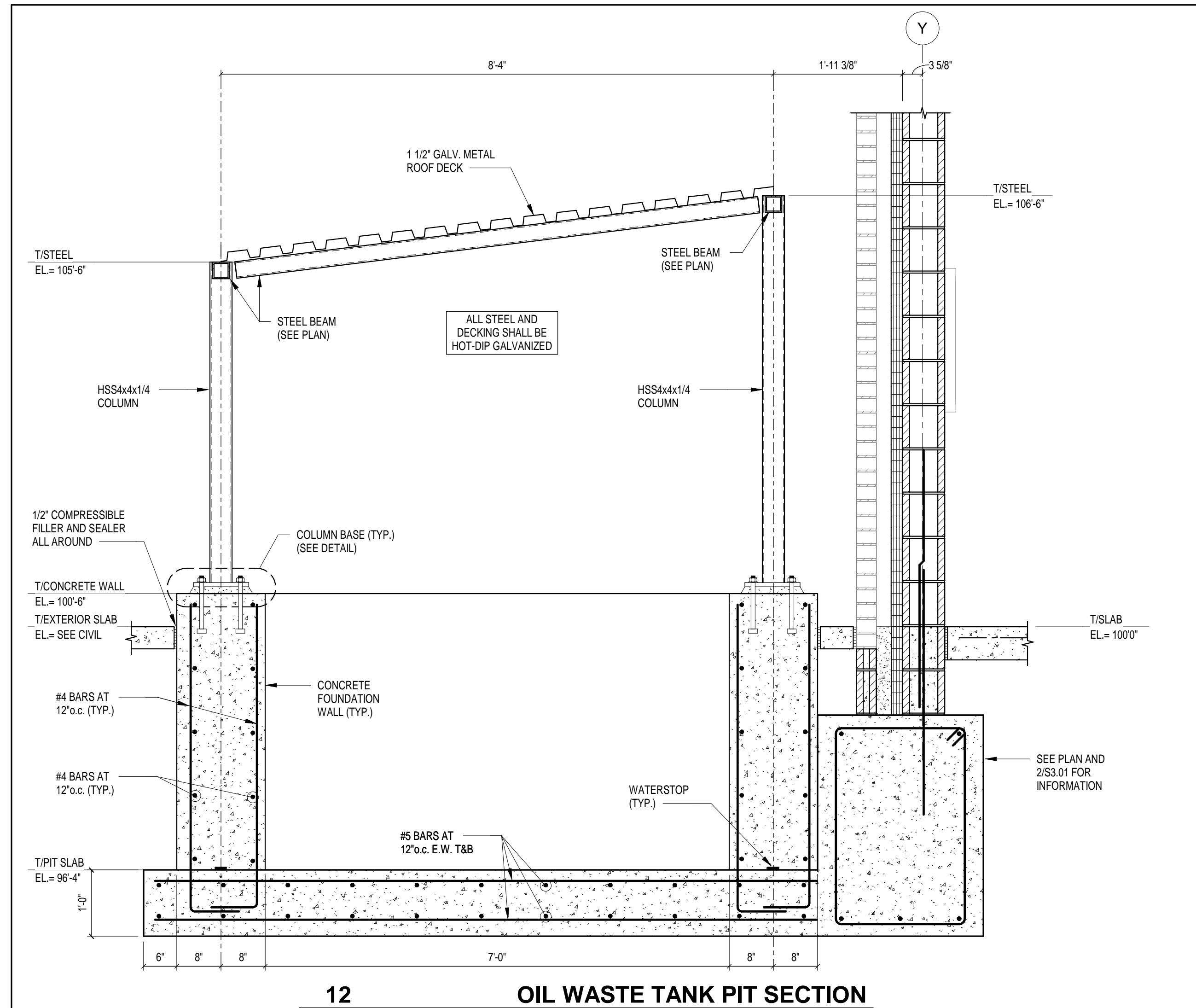
- BEAM LEGEND:**

- INDICATES THAT

INDICATES THAT THE W12x16 BEAM IS SLOPED WITH THE TOP OF ITS FLANGE AT ELEVATION 110'-0" AND ELEVATION 110'-11", RESPECTIVELY, AT THE CENTERLINE OF THE

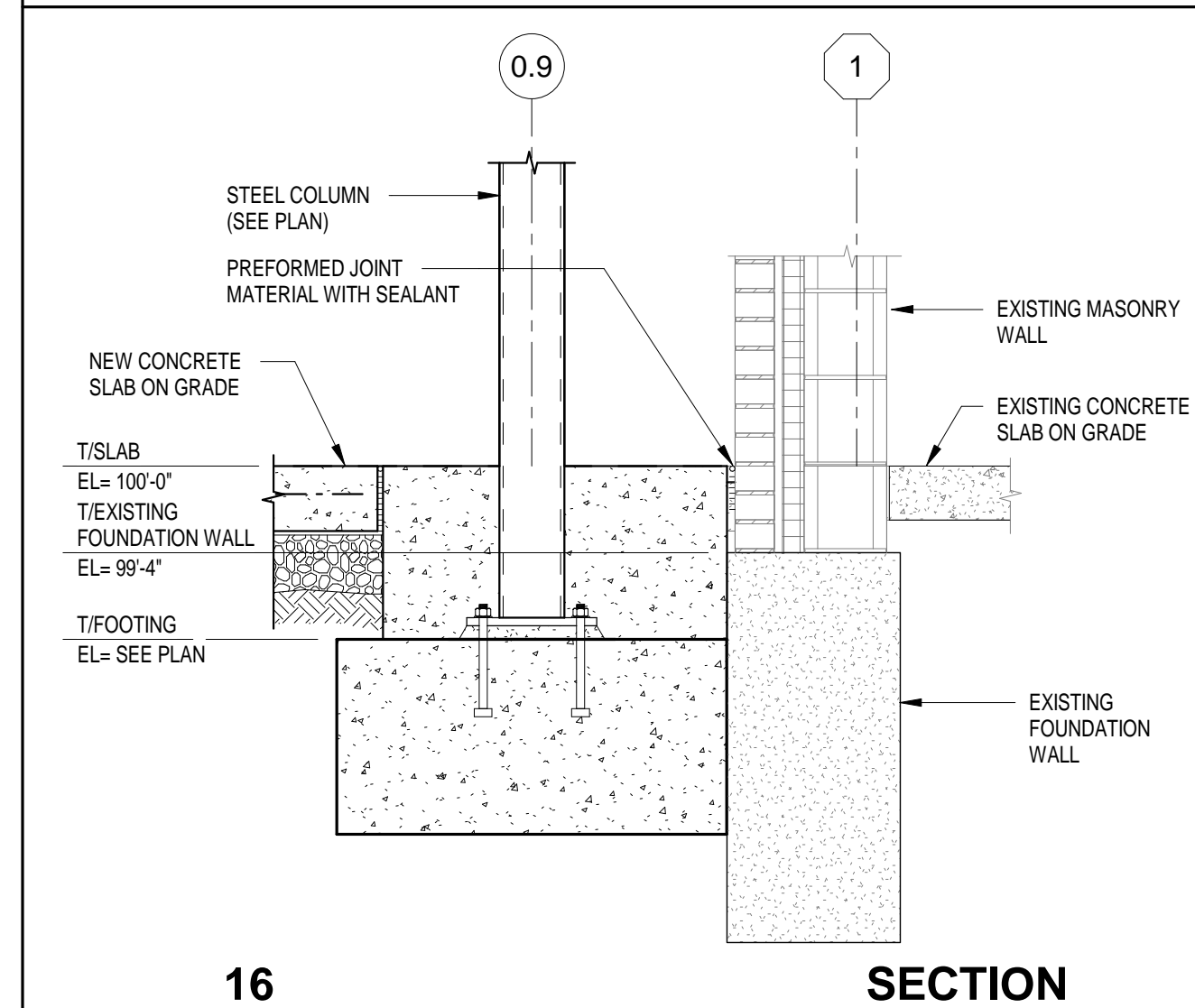
(110'-0) (110'-11") TOP OF ITS FLANGE AT ELEVATION 110'-0" AND ELEVATION 110'-11", RESPECTIVELY. AT THE CENTERLINE OF THE TWO COLUMNS. THE BEAM FRAMES OVER THE TOP OF THE RIGHT COLUMN AND INTO THE SIDE OF THE LEFT COLUMN.

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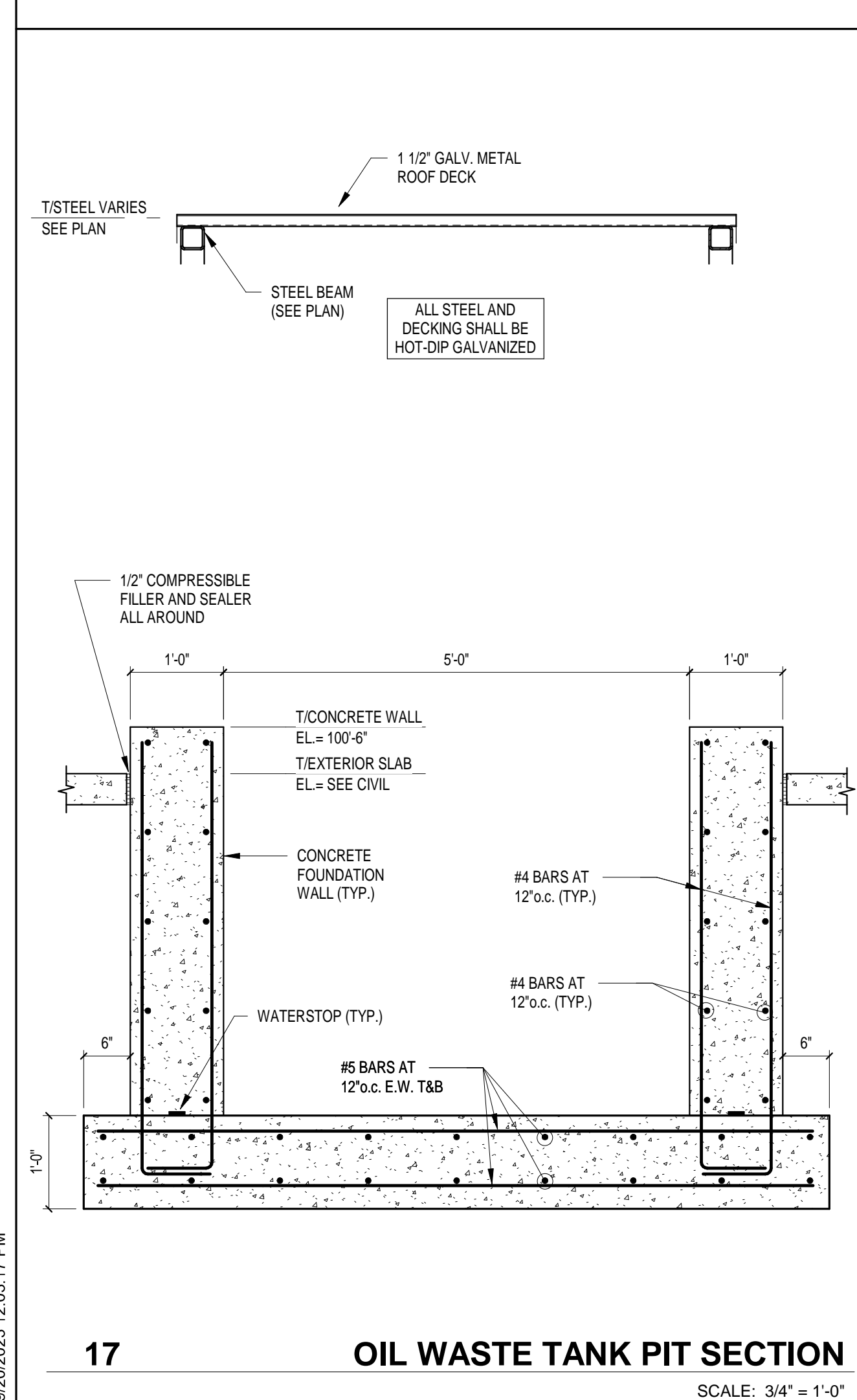
12 OIL WASTE TANK PIT SECTION

SCALE: 3/4" = 1'-0"



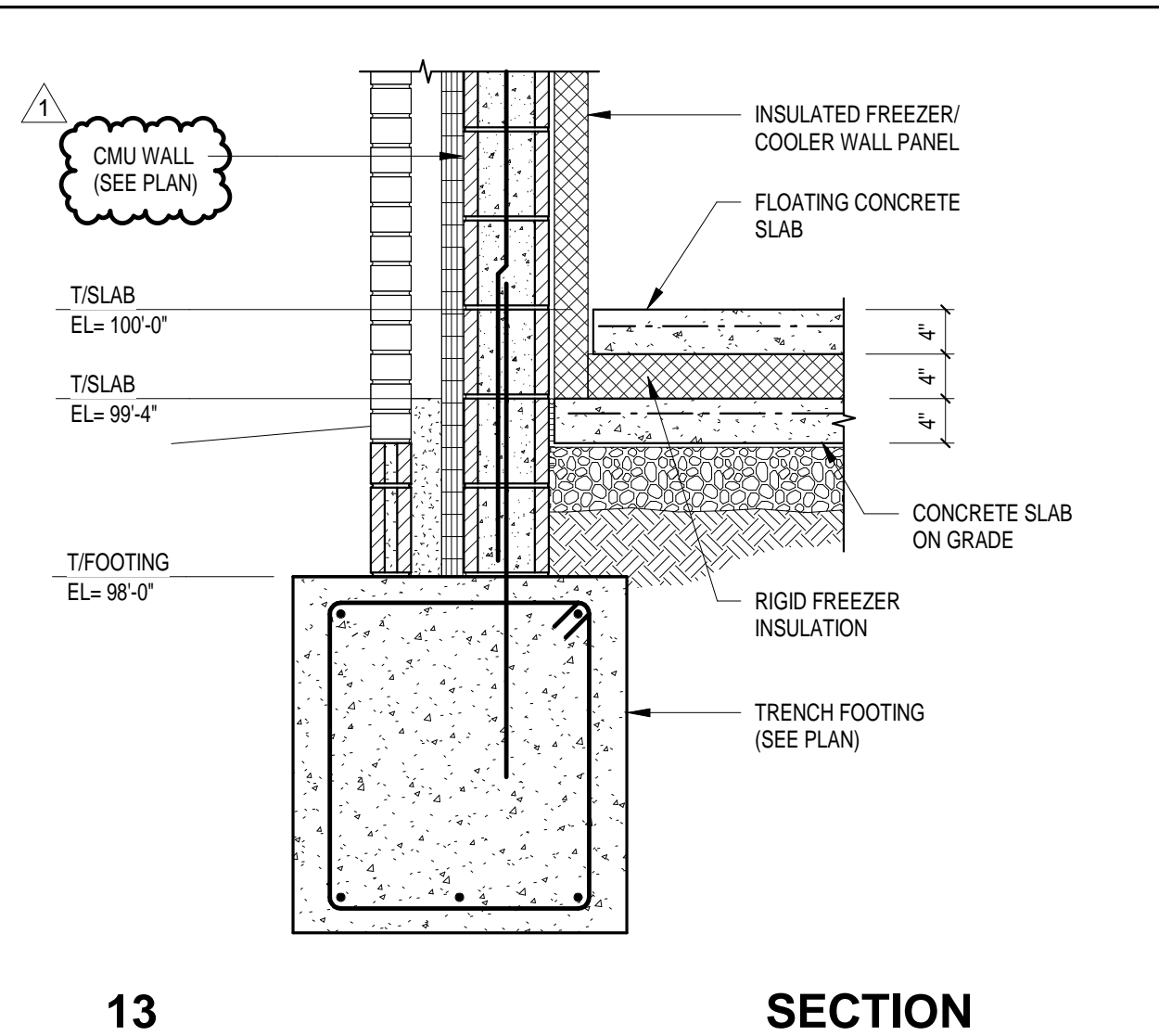
16 SECTION

SCALE: 3/4" = 1'-0"



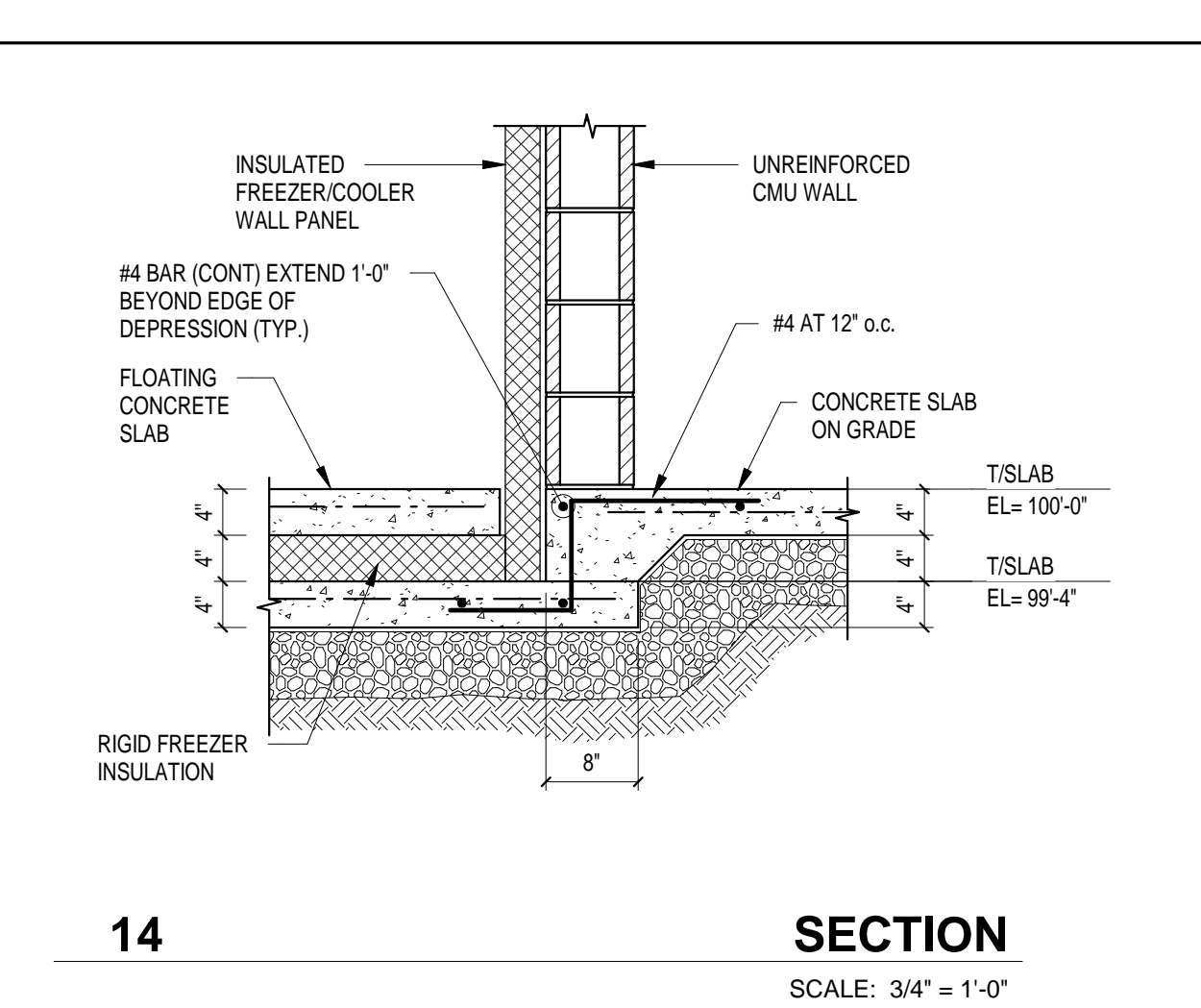
17 OIL WASTE TANK PIT SECTION

SCALE: 3/4" = 1'-0"



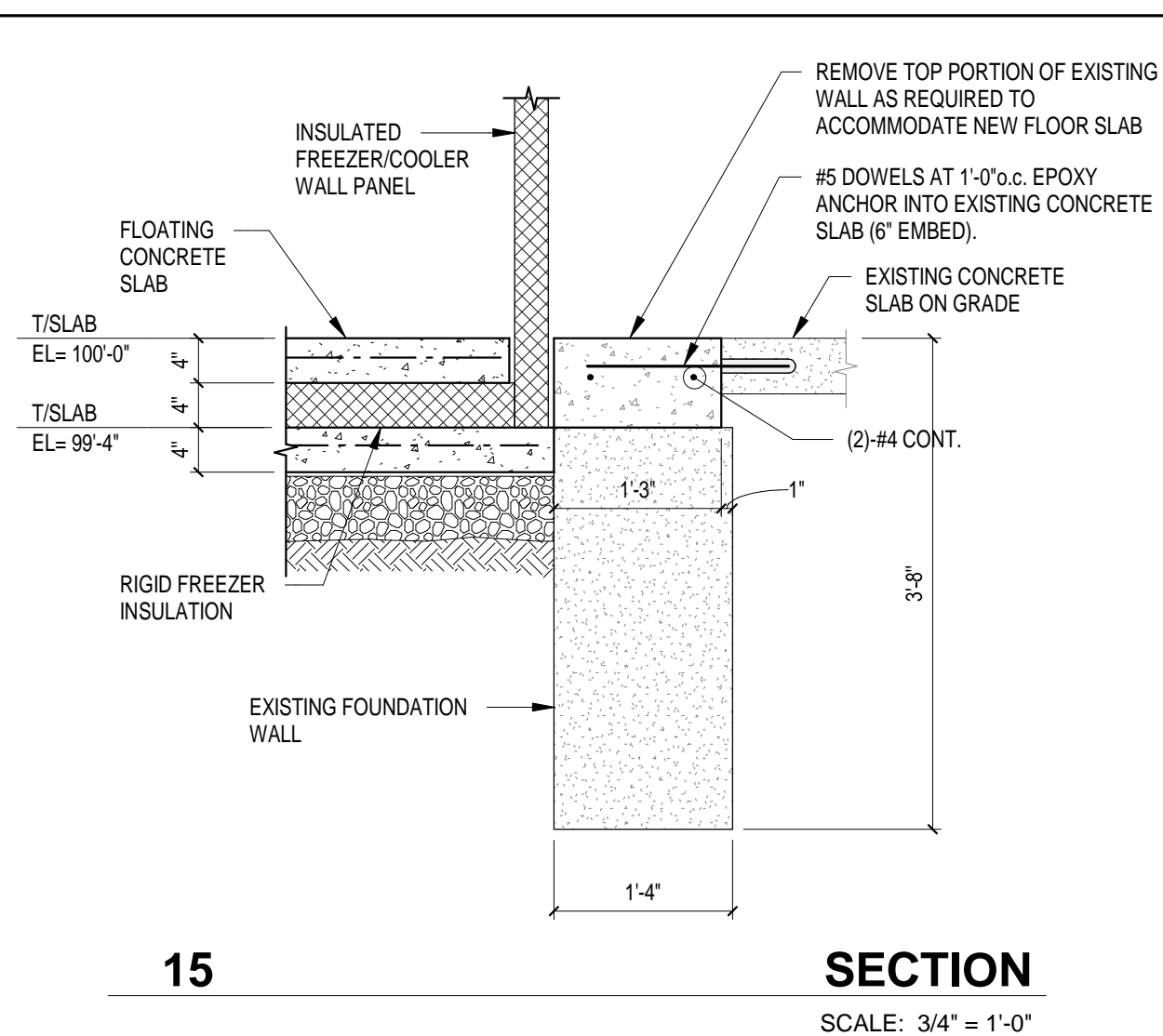
13 SECTION

SCALE: 3/4" = 1'-0"



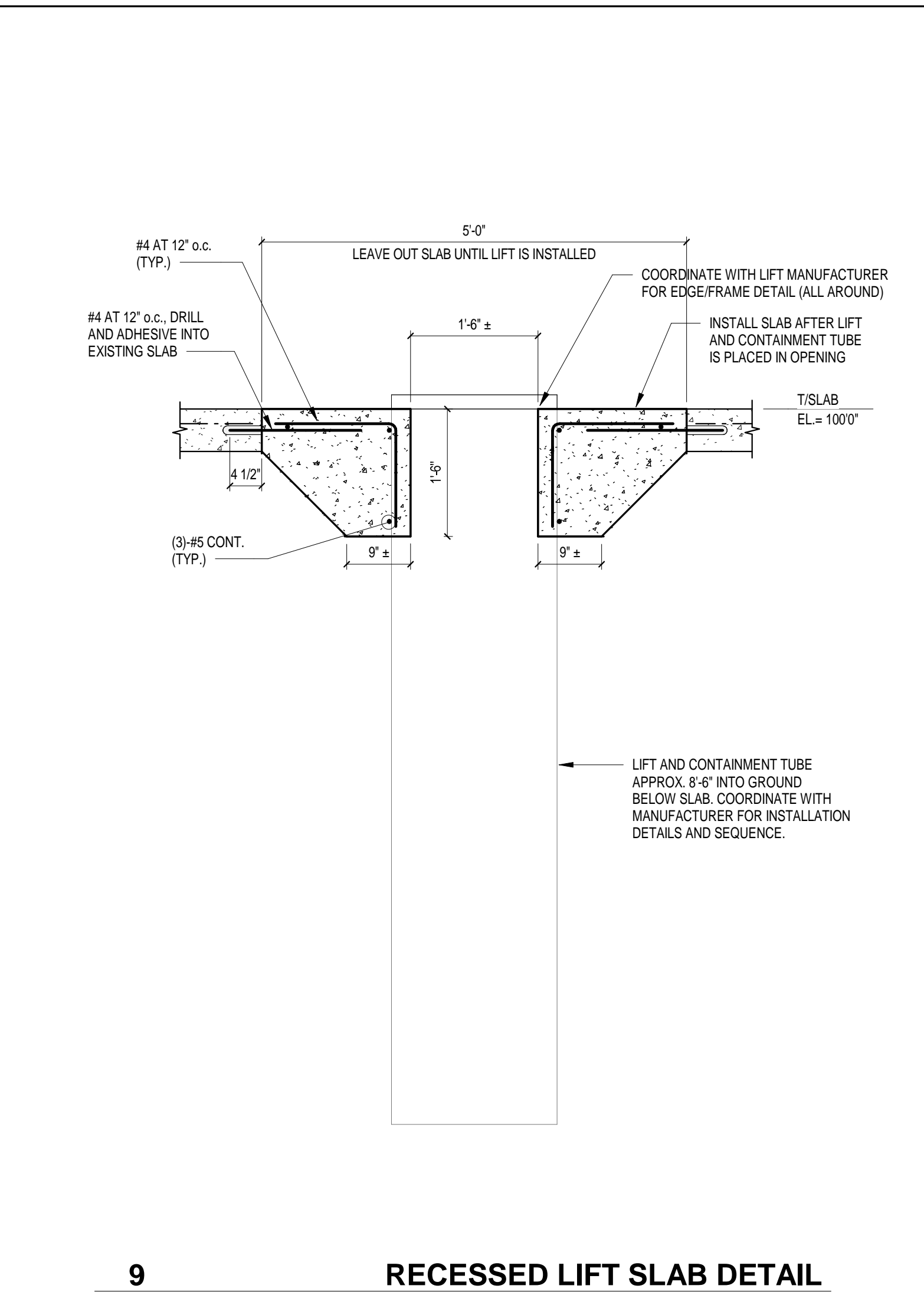
14 SECTION

SCALE: 3/4" = 1'-0"



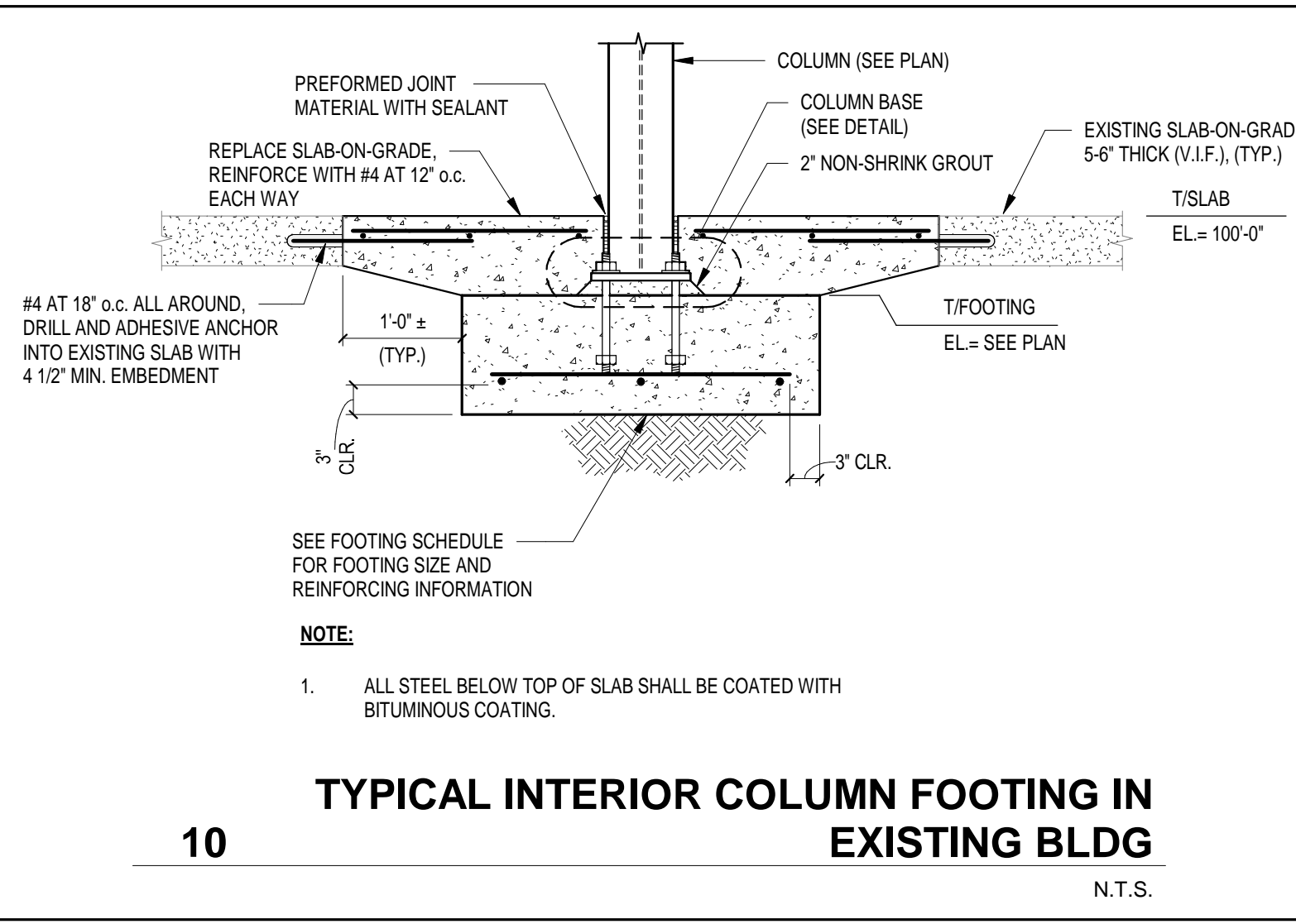
15 SECTION

SCALE: 3/4" = 1'-0"



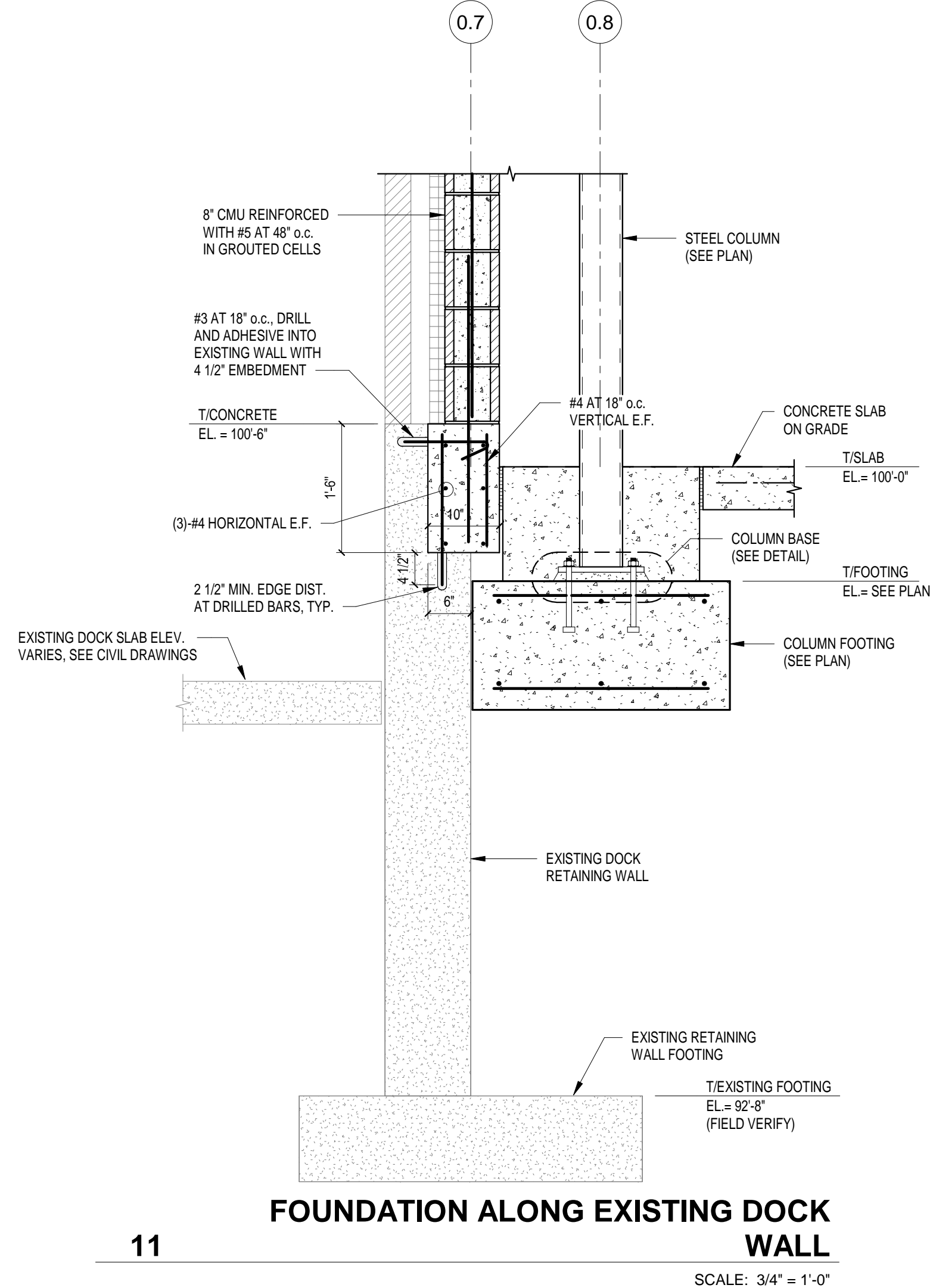
9 RECESSED LIFT SLAB DETAIL

N.T.S.



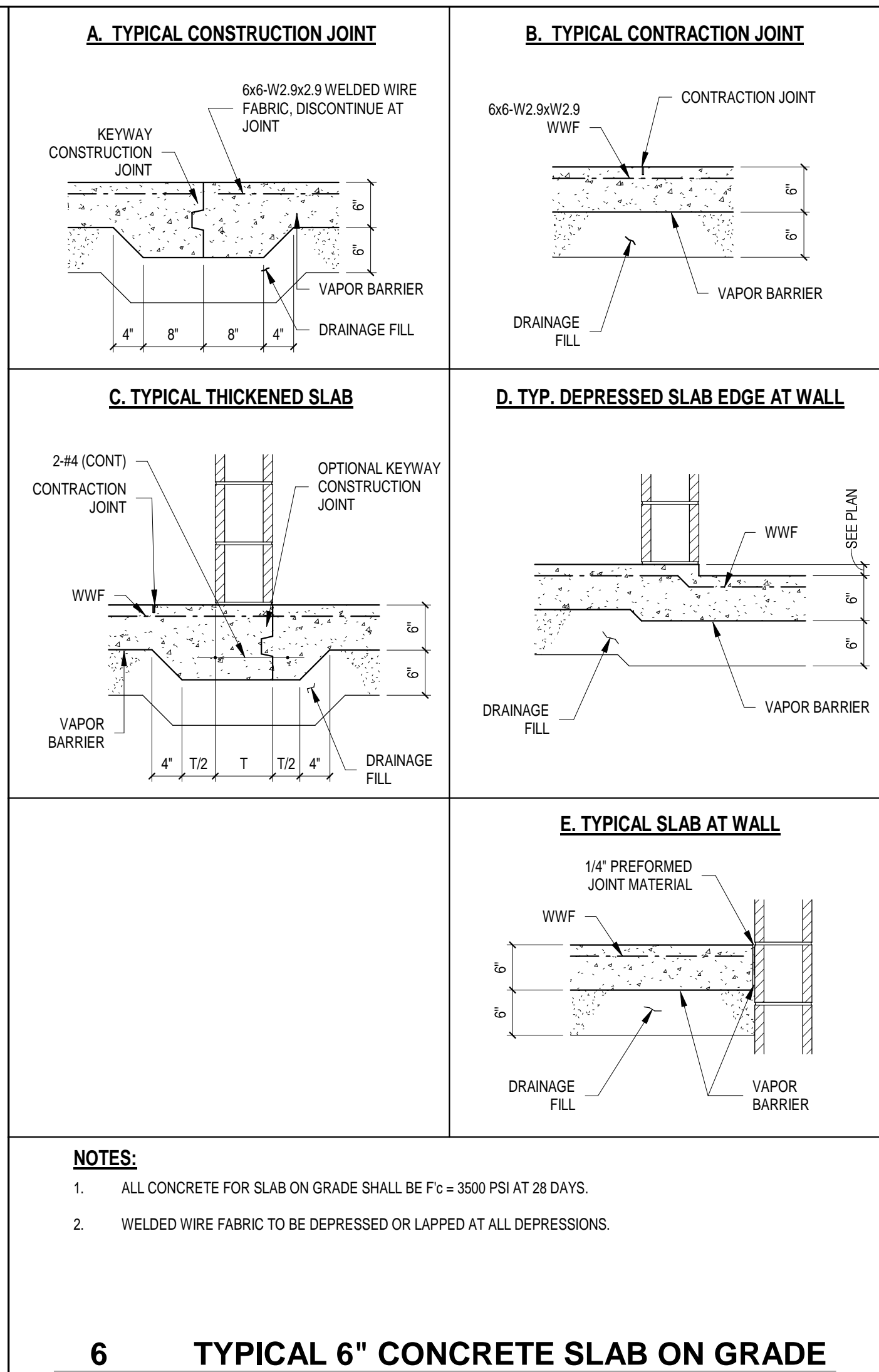
10 TYPICAL INTERIOR COLUMN FOOTING IN EXISTING BLDG

N.T.S.



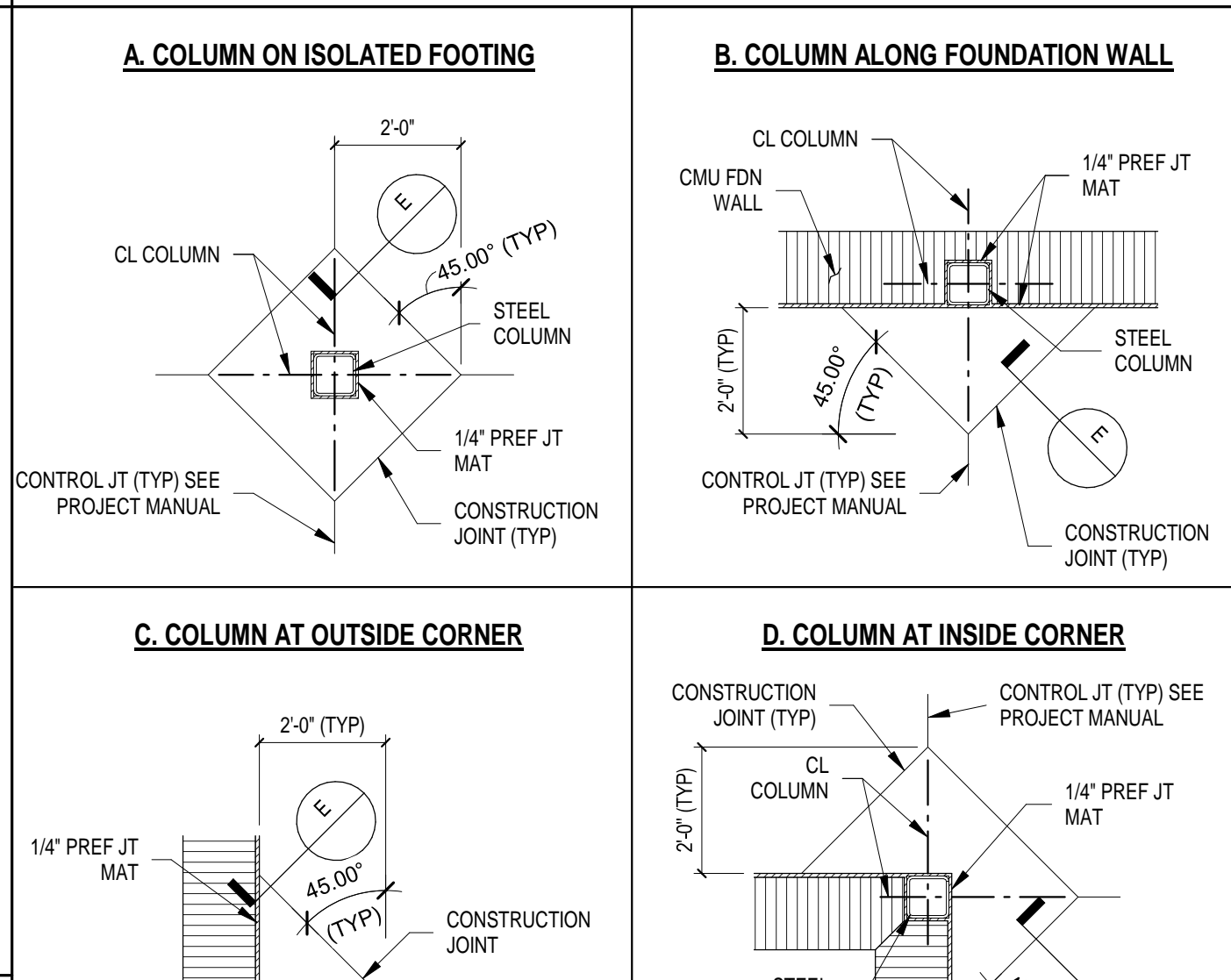
11 FOUNDATION ALONG EXISTING DOCK WALL

SCALE: 3/4" = 1'-0"



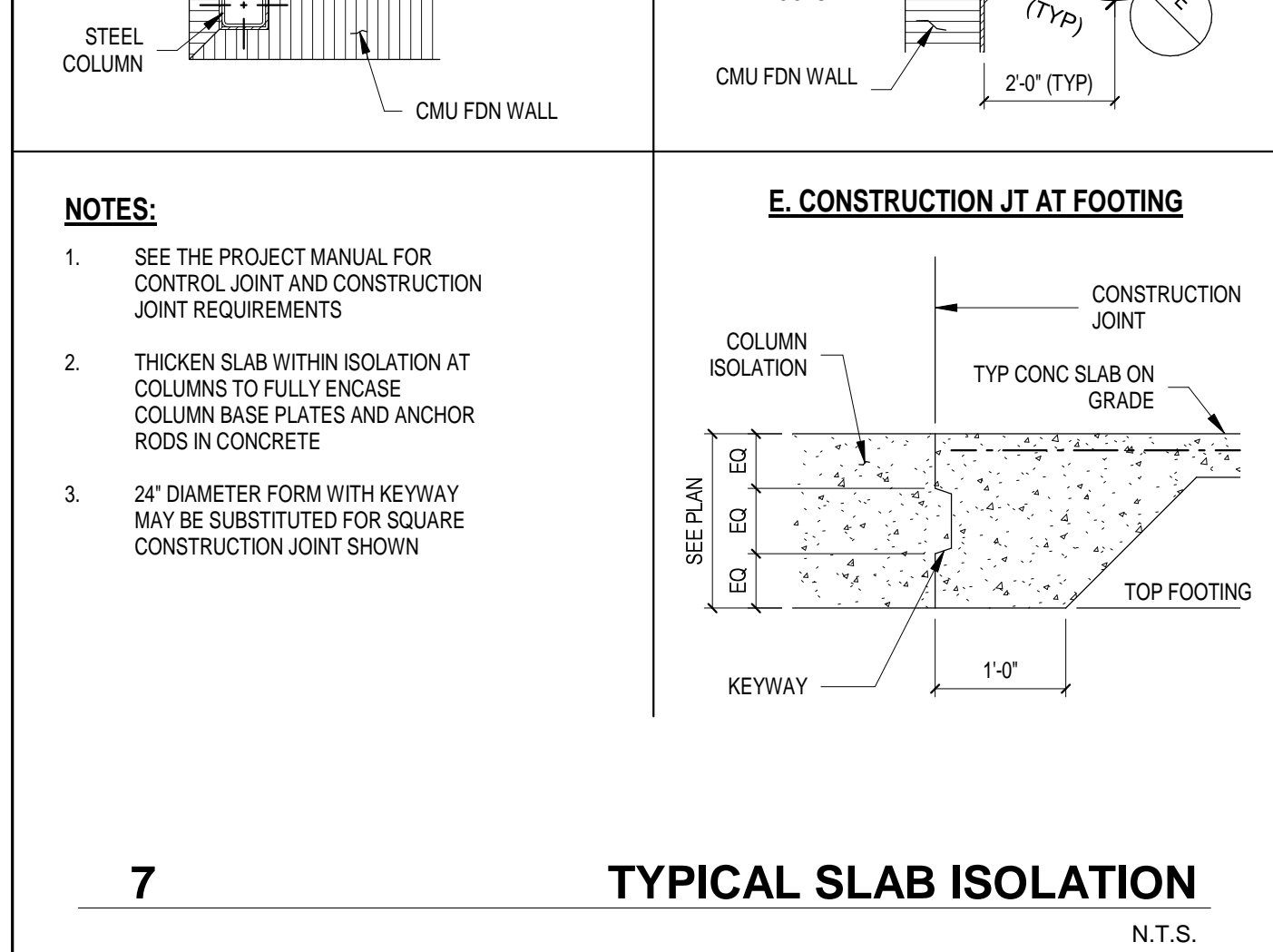
6 TYPICAL 6" CONCRETE SLAB ON GRADE

N.T.S.



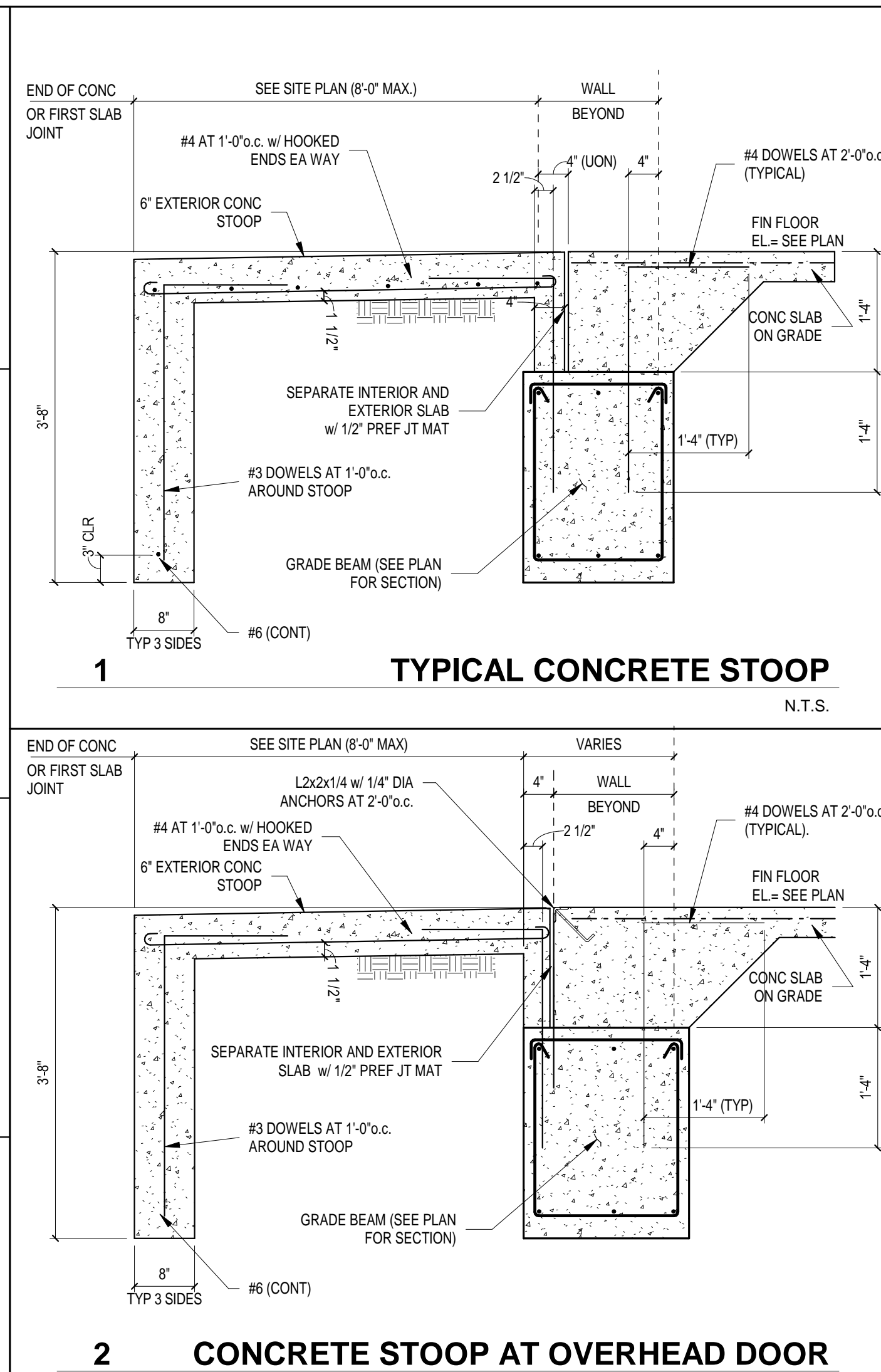
7 TYPICAL SLAB ISOLATION

N.T.S.



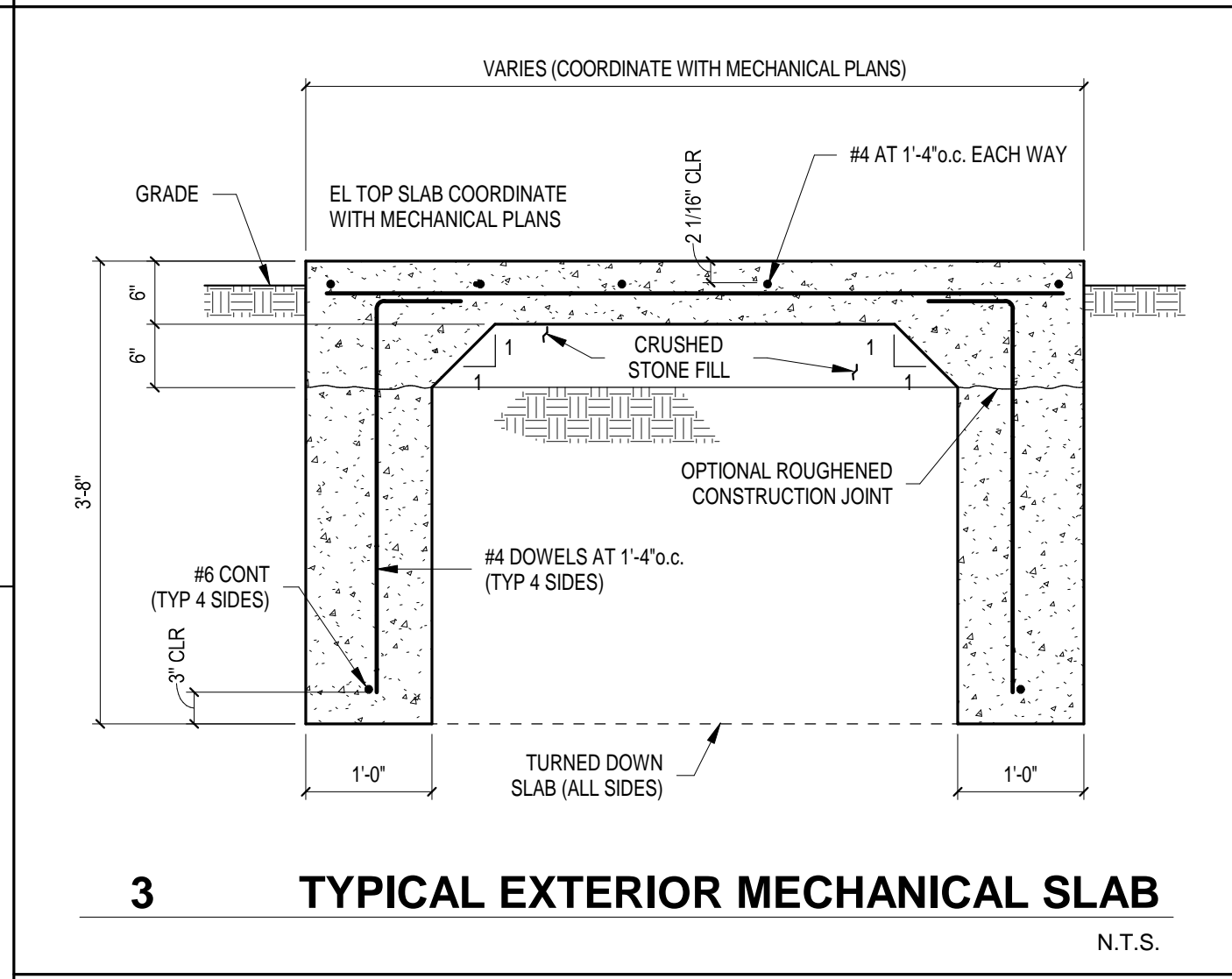
8 SLAB AT EXISTING FOOTING

SCALE: 1 1/2" = 1'-0"



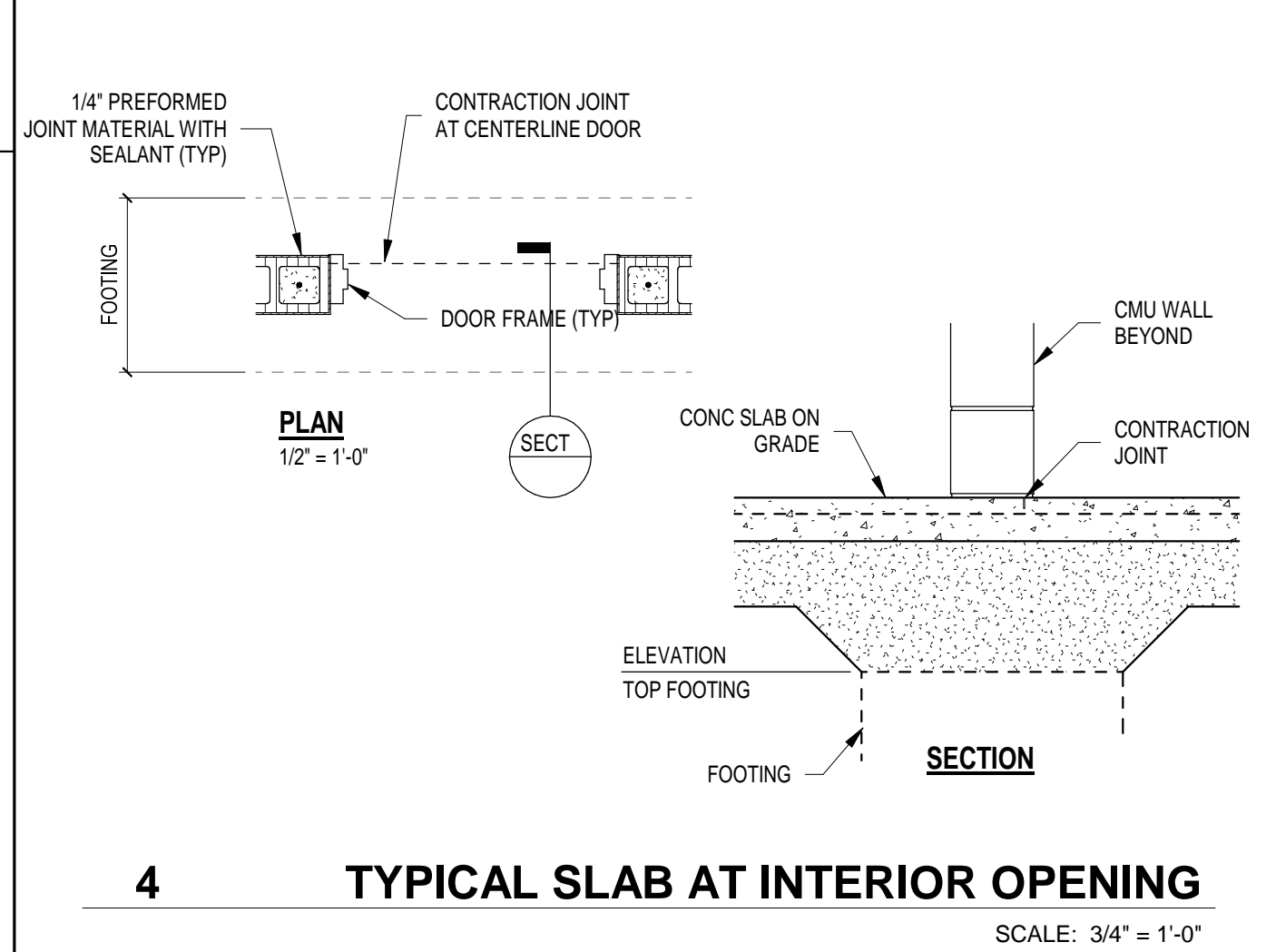
2 CONCRETE STOOP AT OVERHEAD DOOR

N.T.S.



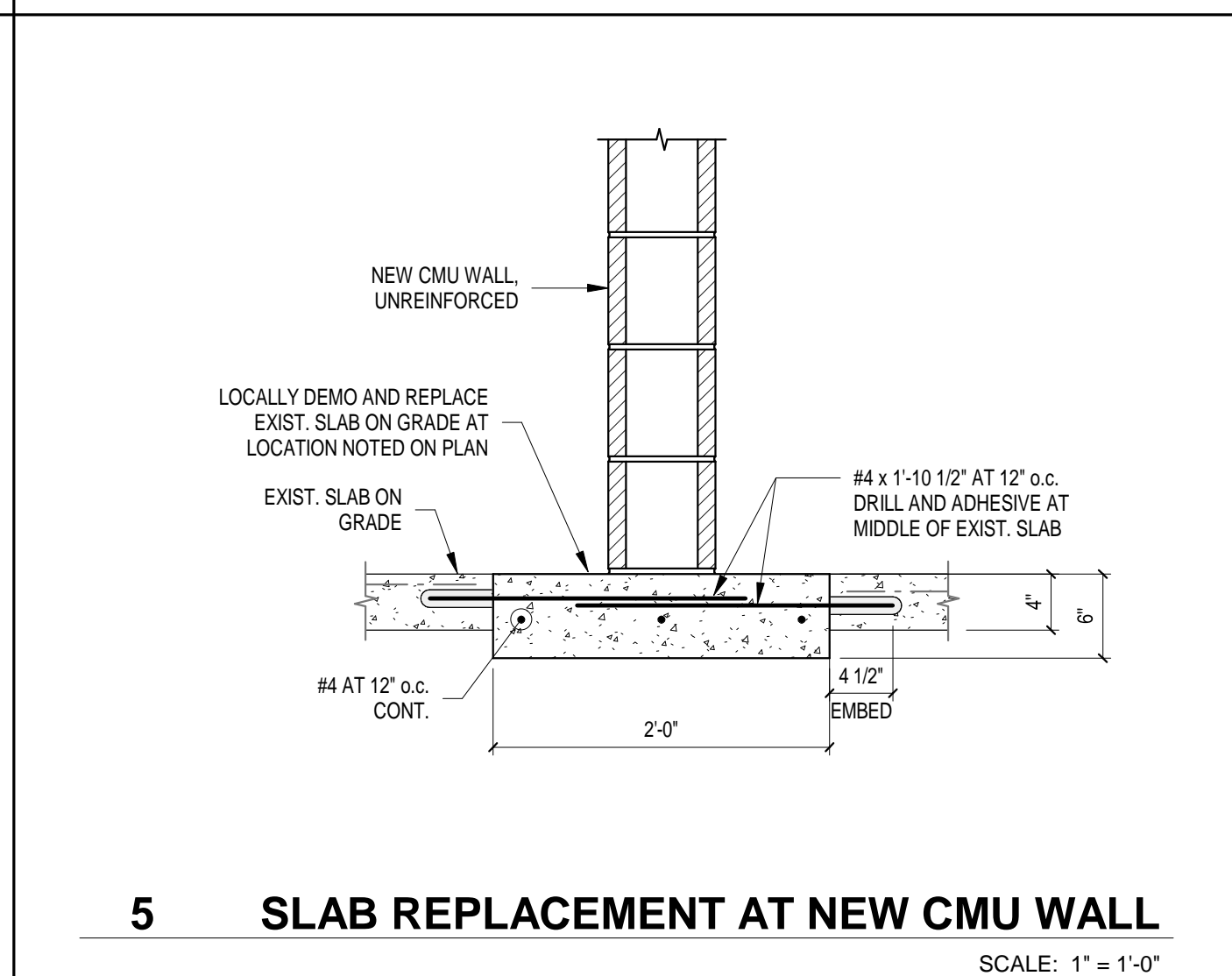
3 TYPICAL EXTERIOR MECHANICAL SLAB

N.T.S.



4 TYPICAL SLAB AT INTERIOR OPENING

SCALE: 3/4" = 1'-0"



5 SLAB REPLACEMENT AT NEW CMU WALL

SCALE: 1' = 1'-0"

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CARMEL CLAY SCHOOLS



ARCHITECT

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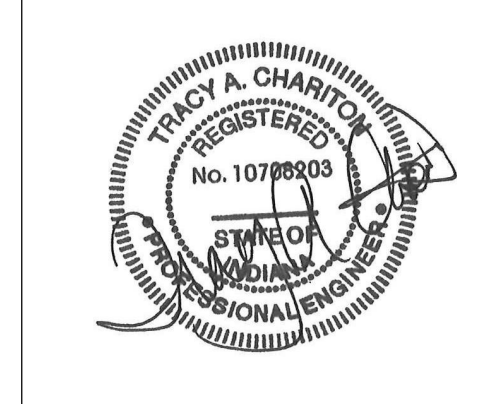
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TLF, INC.

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PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

FOUNDATION AND SLAB DETAILS

S3.03



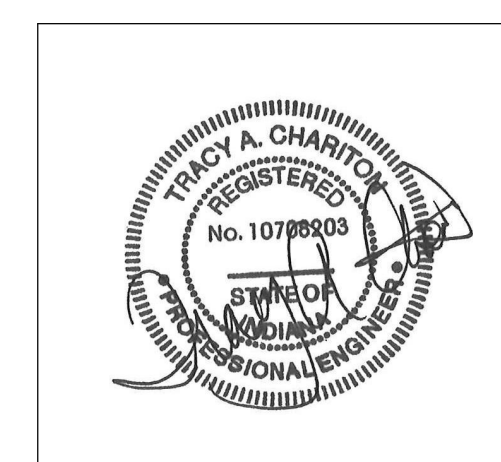
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Fax: 317-334-
TLF Job No: 202

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PROJECT NUMBER: 221165.01
PROJECT ISSUE DATE: 08/31/2023

FRAMING DETAILS

S5.02

- A. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. CONTRACTOR IS TO VERIFY THEIR WORK IN CONFORMANCE WITH THE DESIGN AND CONSTRUCTION DRAWINGS, AND THE EXISTING IN-FIELD CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT IMMEDIATELY. DEMOLITION OF EXISTING MATERIALS INCLUDING BACKINGS, ADHESIVES, BASES, DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL CONCRETE, UNLESS NOTED OTHERWISE.
- B. "CEILING" DENOTES CEILING MATERIALS INCLUDING SUSPENSION SYSTEMS ADHESIVE RESIDUES, MOLDS, LININGS, ETC. EXCLUSIVE OF CEILING CONCRETE. EXISTING CEILING MATERIALS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MIN. BELOW THE EXISTING CEILING FINISH (CONCRETE ON SLAB). PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.
- C. DEMOLITION OF CEILING INTO AN EXISTING WALL, THE OPENING SHALL BE A MINIMUM OF 1'4" LONGER THAN THE FINISHED OPENING REQUIRED TO ALLOW FOR (6" MIN) OF FOOTING IN THE WALL.
- D. AFTER THE DEMOLITION OF MATERIALS, THE RESULTING EXPOSED SURFACE SHALL BE SMOOTH AND FLUSH WITH THE EXISTING CONDITIONS.
- E. MECHANICAL AND ELECTRICAL ITEMS THAT ARE CAPPED AND UNFUNCTIONED SHALL BE LOCATED BEHIND FINAL FINISH SYSTEMS.
- F. COORDINATE THIS WORK WITH DEMOLITION WORK ON STRUCTURE TO BE DEMOLISHED. CHASE, AND ALTERNATE ELECTRICAL.
- G. PROVIDE INTERIOR AND EXTERIOR SHIELDING, BRACING, OR PROTECT TO THE EXTENT MINIMUM OF CHASE, AND ALTERNATE OF EXISTING STRUCTURES.
- H. CONTRACTOR TO FIELD VERIFY PORTIONS OR SECTIONS OF EXISTING WALLS TO BE FILLED IN AND SALVAGE NECESSARY MATERIAL.
- I. MATERIALS OF DEMOLITION SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE DIRECTED BY OWNER.
- J. OWNER TO REMOVE EXISTING FURNITURE AND APPLIANCES AND ITEMS TO BE REMOVED SHALL BE TO BE DEMOLISHED. CONTRACTOR TO NOTIFY OWNER IN ADVANCE WHEN ITEMS NEED TO BE REMOVED.
- K. ITEMS TO BE REPAIR OR RECONSTRUCTED OR ITEMS TO BE REMOVED.
- L. ITEMS TO BE PATCHED, REMOVE OLD OR DAMAGED MATERIAL, REFINISH TO LIKE NEW CONDITION, OR IF CONDITION WARRANTS REPLACE IN ENTIRETY.
- M. OWNER SHALL REMOVE ALL MATERIALS AND ALL OTHER MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEIR OFF SITE.
- N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAG AND IDENTIFY ITEMS: 2) STORE IN AN ORDERLY FASHION IN A LOCATION DESIGNATED BY THE OWNER.
- O. ITEMS TO BE REPAIR OR RECONSTRUCTED OR ITEMS TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY.
- P. AFTER REMOVAL OF FINISH, THE EXISTING WALL SURFACES SHALL BE PATCHED AND REFINISHED AS REQUIRED TO RECEIVE NEW FINISHES.

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

<u>NO.</u>	<u>DESCRIPTION</u>
AD01	REMOVE MEAT GRAVEL, SLOP AND METAL FASCIA IN ITS ENTRY. PREPARE EXISTING WALL FOR NEW CONSTRUCTION.
AD02	REMOVE MEAT COPING IN ITS ENTRY. WALL STRUCTURE BELOW TO REMAIN. PREPARE FOR NEW CONSTRUCTION.
AD03	REMOVE PORTION OF EXISTING MEMBRANE ROOF SYSTEM IN ITS ENTRY DOWN TO EXISTING ROOF DECK. EXISTING MEMBRANE, INSULATION AND INSULATION AND SUBSTRATE BOARD. PREPARE ROOF DECK AS REQUIRED FOR NEW CONSTRUCTION.
AD04	EXISTING ROOF SYSTEM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
AD05	TEMPORARILY DISCONNECT EXISTING ROOF / OVERFLOW DRAIN AS REQUIRED FOR REMOVAL AND INSTALLATION OF NEW DRAIN SYSTEM. SALVAGE AND RE-INSTALL IN NEW ROOFING ASSEMBLY.
AD06	EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
AD07	EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. SEE MECHANICAL FOR ADDITIONAL INFORMATION. PREPARE FOR NEW WORK.
AD08	EXISTING GRAVEL SLOP / FASCIA TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
AD09	REMOVE PORTION OF EXISTING ROOF EXPANSION JOINT AS REQUIRED FOR INSTALLATION OF NEW ROOFING SYSTEM.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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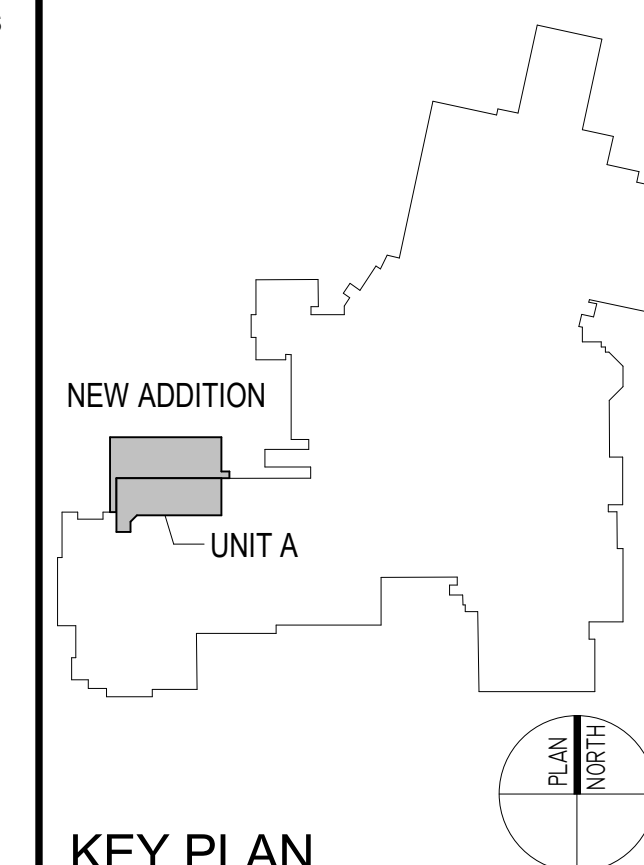
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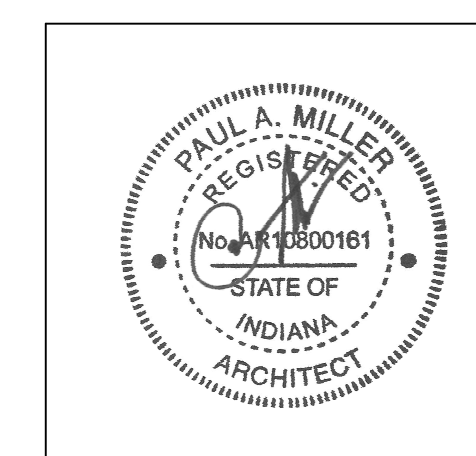
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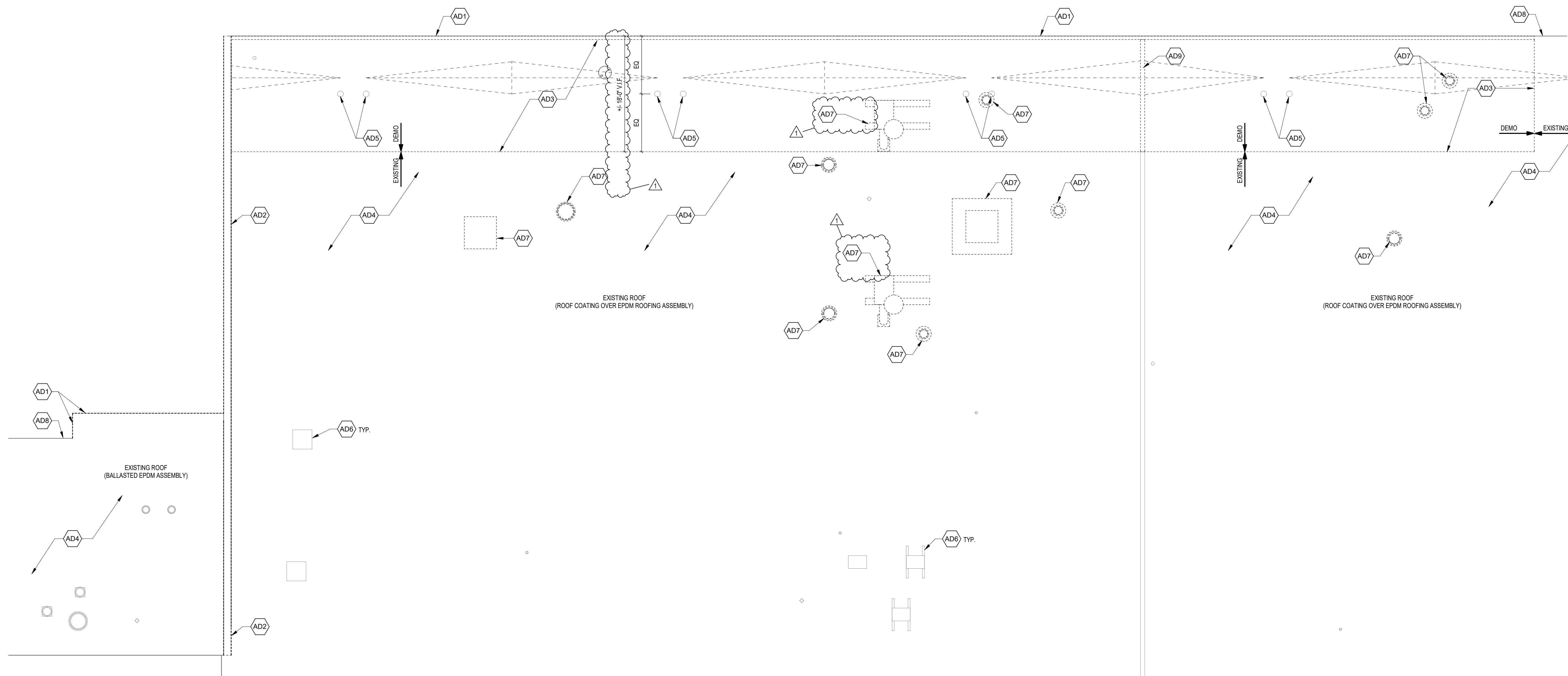
PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

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ROOF DEMOLITION PLAN

AD2.01



UNIT A - ROOF DEMOLITION

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



A1.01

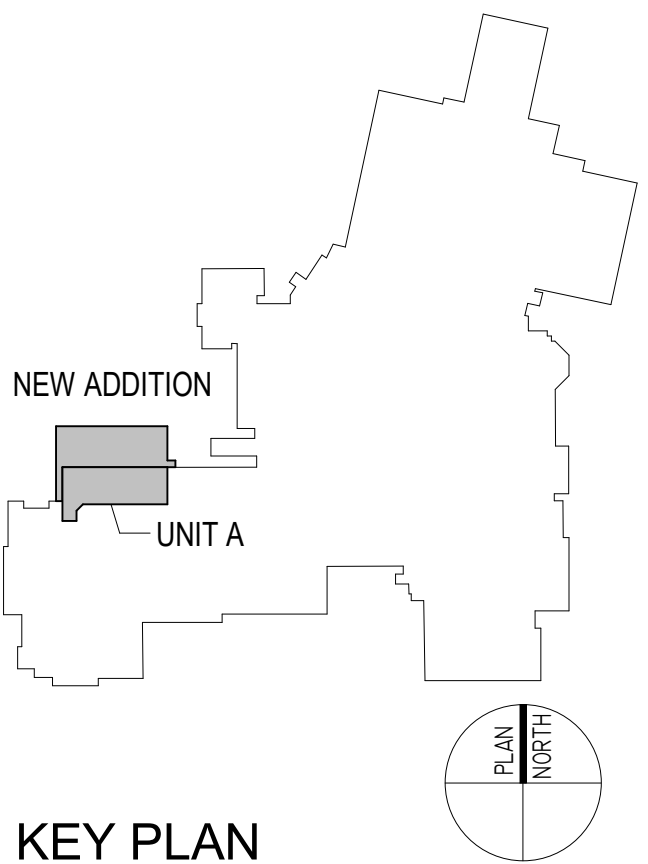
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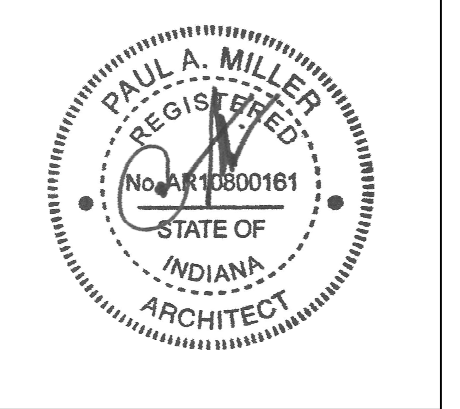
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PROJECT ISSUE DATE: 08/31/2023

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A1.02

ARCHITECTURAL PLAN GENERAL NOTES

- A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR
H/4 LENGTHS SHOULD BE BALANCED SO AS NOT
TO HAVE ANY FEWER PILES THAN 4" IN SIZE EXPOSED
TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY
SHALL BE UNDER THE SAME LINEN/TYPE OF THE DOOR,
UNLESS NOTED OTHERWISE.
C. THERE SHALL BE PERMITTER INSULATION CONTINUOUS
ACROSS THE JOINTS PERFORMED BY THE BUILDING
EXTERIOR. EXPOSED 2" MINIMUM BELOW GRADE.
D. THE BASE FLOOR ELEVATION INDICATED FOR THE
PROJECT SHALL REFER TO THE FINISH FLOOR PLAN FOR
CORRELATION TO USGS DATUM.
E. ALL INTERIOR MASONRY WALLS THAT RUN
UNDER/ABOVE THE EXISTING FLOOR OR FINISH 2" JOINT
(N/A) AT THE DECK TO BE FILLED WITH FIBER
STOPPING AT RATED WALLS FOR PROJECT MANUAL,
AND MASONRY DECK AT THE NON-RATED WALLS TO
ALLOW FOR DETAIL.
F. FOR TYPICAL COMMON JOINT DETAILS AND
CONSTRUCTION MOVEMENT DATA, THE REFER TO
DETAILS ON SHEET XK.
G. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH
FACES AND CONCRETE JOINTS OR FINISH 2" JOINT
OF G/WB AT METAL STUD WALLS. UNLESS NOTED
OTHERWISE. EXTERIOR: EXTERIOR METAL STUD
WALLS TO FACE OF METAL STUD.
H. IN SIZE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE
LOCATED 1/2" MINIMUM FROM ADJACENT WALL UNLESS
NOTED OTHERWISE.
I. ALL EXPOSED CONCRETE MASONRY UNITS (CMU)
CORRELATION TO BE BUILDING MATERIALS AT
BULKHEADS, WINDOW AND DOOR HEADS.
J. REFER TO CEILING PLANS FOR BULKHEAD
LOCATION AND DETAIL REFERENCE.
K. REFER TO ROOM FLOOR SCHEDULE OR PLAN AND
EQUIPMENT PLANS FOR LOCATION AND EXTENT OF
FINISH FLOOR MATERIALS.
L. PROVIDE WOOD BLOCKING AS REQUIRED. WITHIN
METAL STUD WALLS FOR WALL MOUNTED ITEMS.
M. REFER TO FIRE CODE PLANS FOR
N. INFORMATION AND FIRE RATED WALL LOCATIONS.
O. PROVIDE SPRAY FOAM INSULATION AND EXTERIOR
BARK/SHINGLE AT INTERSECTION OF TYPICAL
WALLS AND DECK.

ARCHITECTURAL PLAN NOTES

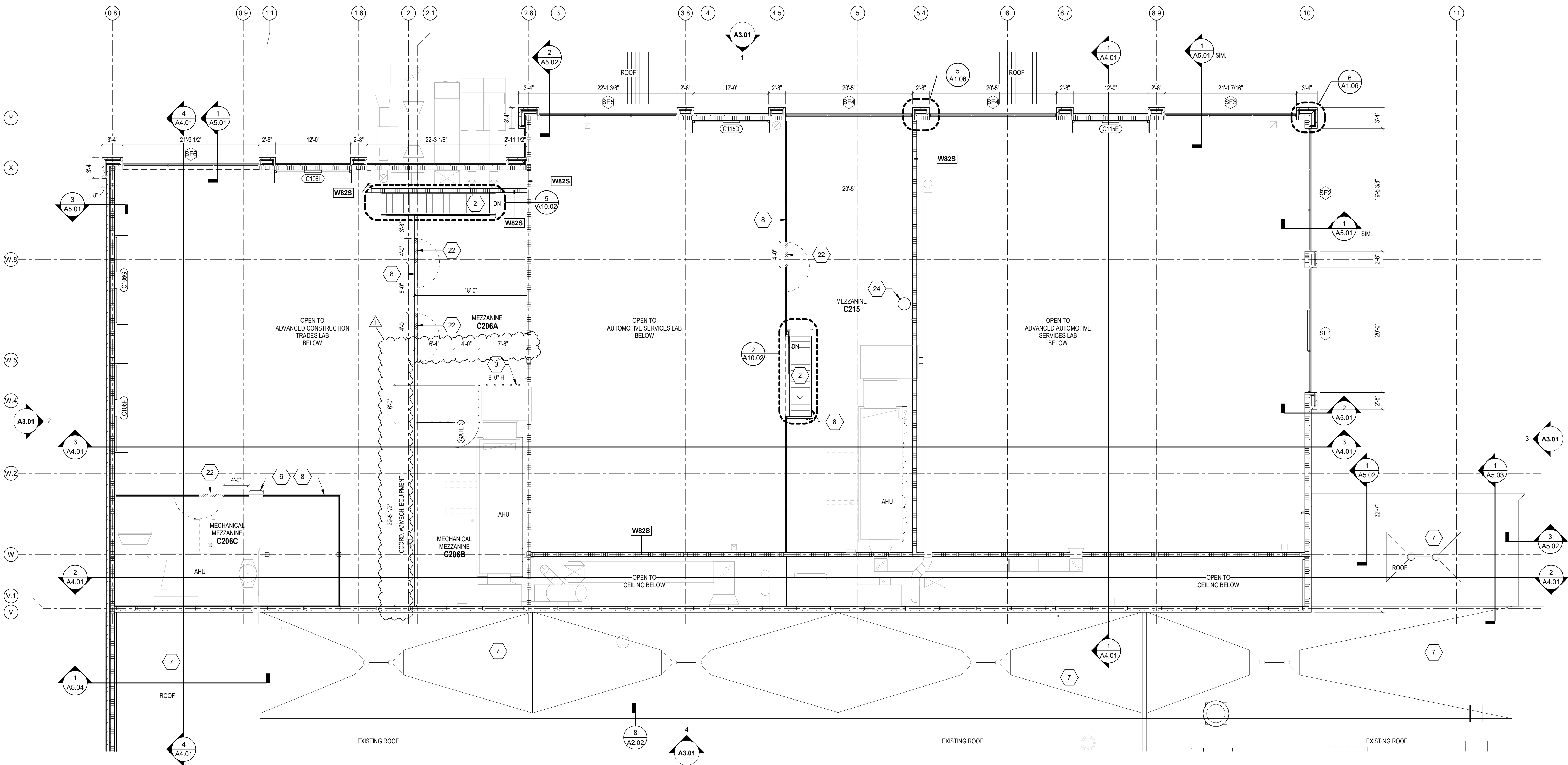
(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

— W### INDICATES WALL TYPE. REFER TO
DRAWING A1.00 FOR WALL THICKNESS,
HEIGHT AND COMPOSITION.

NO.	DESCRIPTION
01	INFL/IN OPENING TO MATCH EXISTING WALL CONSTRUCTION FINISH FLUSH WITH ADJACENT SURFACES TO SHOW NO EVIDENCE OF CONSTRUCTION TOOTH-IN MASONRY WITH EXISTING.
02	CONCRETE FILL, METAL PAN STAIRS. SEE A10.02 FOR ADDITIONAL INFORMATION.
03	WIRE MESH PARTITION SYSTEM, INCORPORATE MORTAR, LOCK CYLINDER AND CORE IN GATE. SEE DOOR SCHEDULE AND ELEVATIONS FOR ADDITIONAL INFORMATION.
04	PRE-FINISHED STEEL LOCKERS. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION.
05	PROVIDE NEW ACQUISITUAL WALL TREATMENT. SEE FINISH PLANS, EXTERIOR ELEVATIONS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
06	24" WIDE, FIXED ALUMINUM ACCESS LADDER. SEE DETAIL 31A.02.
07	MEMBRANE ROOF SYSTEM. SEE ROOF PLAN FOR ADDITIONAL INFORMATION.
08	METAL PIPE GUARDRAIL. SEE PLAN. SEE A10.02.
09	KITCHEN COUNTER. SEE FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
10	INFL/IN PORTION OF CONCRETE SLAB. FINISH FLUSH WITH EXISTING. SEE PLUMBING FOR ADDITIONAL INFORMATION.
11	INDICATES 12" x 12" AREA FOR STUDENT-BUILT HOUSE (BUILD FOR REFERENCE ONLY).
12	INDICATES 12" x 2" AREA FOR STUDENT-BUILT TINY HOUSE (FOR REFERENCE ONLY).
13	ACQUISITUAL METAL WALL PENETRATIONS ABOVE CEILING, BOSH SOAP MORTAR AS REQUIRED. INFIL MASONRY OPENINGS WITH CUMI SOAP MORTAR AS REQUIRED.
14	EXISTING STEEL BEAM AND WOOD TOP WORKBENCHES. COORDINATE LOCAL LOCATION WITH OWNER UPON COMPLETION OF OTHER FINISHES.
15	2 LAYERS OF 5/8" TYPE "X" GYPS. BOARD OVER EXISTING 5/8" TYPE "X" GYPS. BOARD AND SEAL TOP EDGE TO CONCRETE DECK.
16	PROVIDE WOOD FLOOR FRAILING TO MATCH EXISTING DETAIL. REPLACE TILE ACCESS FLOOR. SEE DETAIL 31A.01.
17	INFL/IN PORTION OF CONCRETE SLAB. FINISH FLUSH WITH EXISTING. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
18	CONCRETE FILL STEEL PIPE BOLLARD WITH COVER. SEE DETAIL 7A.01 FOR ADDITIONAL INFORMATION.
19	NEW PRESTRESSED BUILDING EXPANSION JOINT WITH CONTINUOUS SEALANT.
20	PLASTIC LAMINATE CABSINO. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION.
21	12W/12W PRE-FINISHED STEEL OPENING. SEE STRUCTURAL GUARDRAIL CASE. SEE 5/1A.01/01.
22	INFL/IN OPENING TO MATCH EXISTING WALL CONSTRUCTION GROUND FACE CUMI TO MATCH EXISTING. FULL HEIGHT FINISH FLUSH WITH ADJACENT SURFACES TO SHOW NO EVIDENCE OF CONSTRUCTION TOOTH-IN MASONRY WITH EXISTING.
23	PAINT BOSH EXHAUST UP THROUGH ROOF. SEE EQUIPMENT PLANS AND SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION, DIMENSIONS AND CREDS BETWEEN ALL TRADES AND EQUIPMENT MANUFACTURER.
24	SEMI-RECESSED FIRE EXTINGUISHER CABINET. SEE 31A.01/01 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
25	SAFETY BRICK. SEE DETAIL 31A.01/01 FOR RECAUTION AND RE-USE TO WRAP BRICK BACK TO CUMI AT JAMES.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



UNIT A - MEZZANINE ARCHITECTURAL PLAN

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

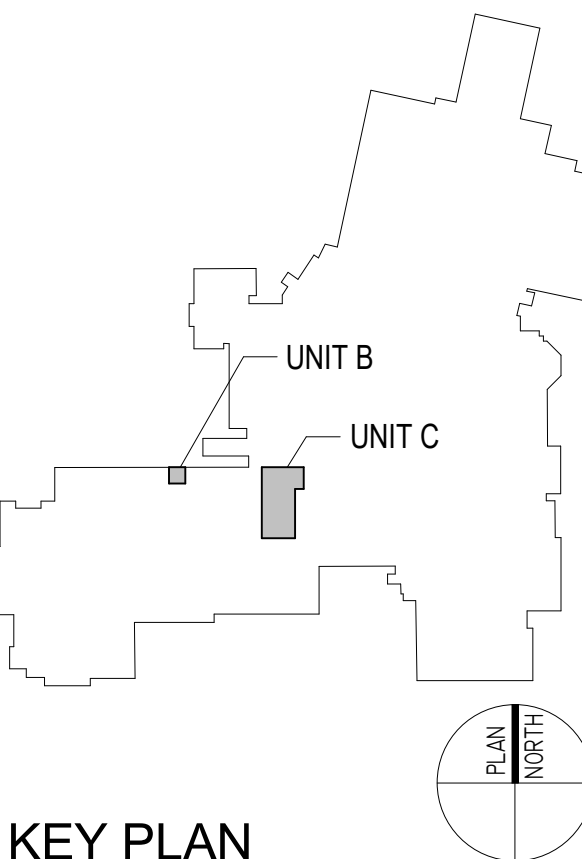
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KEY PLAN

100% CONSTRUCTION DOCUMENTS



DRAWN BY: DSR

PROJECT NUMBER: 221165.0

PROJECT ISSUE DATE: 08/31

[illegible]

**UNIT B AND C - DEMOLITION AND
FIRST FLOOR ARCHITECTURAL
PLAN**

A1.03

DEMOLITION PLAN NOTES (CONTINUED)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
AD308	REMOVE ACQUICAL WALL PANELS IN THEIR ENTIRETY EXISTING CUM WALL TO REMAIN. PREPARE CUM TO RECEIVE
AD309	REMOVE WALL CARPET IN ITS ENTIRETY. REMOVE ADHESIVES BACK TO EXISTING CUM SUBSTRATE. GRIND MAY BE REQUIRED TO REMOVE ADHESIVE AND CREATE SMOOTH SURFACE SUIABLE FOR NEW FLOORING
AD310	SALVAGE EXISTING STEEL BASE AND WOOD TOP WORK PICES. RELOCATE AS REQUIRED FOR INSTALLATION OF NEW CARPET. REMOVE EXISTING CARPET
AD311	EXISTING DISPLAY BOARD / CASE, (PROJECTION SCREEN REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCT REMAIN. RE-INSTALL AS REQUIRED FOR NEW WORK
AD312	REMOVE CARPET AND REMOVE EXISTING VEHICLE LIFT IN ENTIRETY
AD313	REMOVE EXISTING WALL MOUNTED REND TUB CABINET AND MOUNTED TUB. REMOVE EXISTING TUB
AD314	REMOVE VINYL WALL COVERING AND TAPE SURFACES / CORK BACK TO CUM SUBSTRATE. REMOVE ADHESIVES BACK TO EXISTING CUM SUBSTRATE. GRINDING MAY BE REQUIRED TO REMOVE ADHESIVE AND CREATE A SMOOTH SUBSTRATE SUIABLE FOR NEW MATERIAL
AD315	REMOVE EXISTING PRE-CAST BUILDING IN ITS ENTIRETY INCLUDING ANY BELOW GROUND FOUNDATIONS. SEE CUM FOR ADDITIONAL INFORMATION
AD316	REMOVE EXISTING VCT FLOORING, WALL BASE AND TRANSITIONS. REMOVE ADHESIVES DOWN TO EXISTING SLAB. PREPARE TO RECEIVE NEW FLOORING
AD317	REMOVE GYP. BOARD IN ITS ENTIRETY BACK TO METAL STUD FRAMING. METAL STUD FRAMING TO REMAIN UNLESS OTHERWISE ADJUSD BY ARCHITECT
AD318	REMOVE EXISTING ADJUSD STAIRS. REMOVE STAIR ACCESSORIES DOWN TO EXISTING SLAB. PREPARE SURFACE TO RECEIVE NEW FINISH
AD319	EXISTING CONCRETE SLAB TO REMAIN. REMOVE EXISTING FLOOR FINISH. MAY BE REQUIRED TO REMOVE EXISTING SURFACES TO RECEIVE NEW FINISH
AD320	REMOVE PORTLAND GROUND FACE CUM AT CORNERS. REMOVE PORTLAND GROUND FACE CUM AT CORNERS. REMOVE PORTLAND GROUND FACE CUM AT CORNERS
AD321	REMOVE PORTION OF EXISTING CUM ON-GRADE IN ITS ENTIRETY TO EXISTING STONE BASE. PREPARE FOR NEW CONSTRUCTION. SEE STRUCTURAL FOR ADDITIONAL

ARCHITECTURAL DEMOLITION GENERAL NOTES

- DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. CONTRACTOR IS TO VERIFY THEIR WORK IN THE EXISTING WORK. CONTRACTOR TO VERIFY ALL WORK CONSTRUCTION DRAWINGS, AND THE EXISTING IN-FIELD CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT FOR REVIEW. CONTRACTOR TO REMOVE ALL EXISTING WORK INCLUDING BACKINGS, ADHESIVES, BACKS, DOWN TO BUT EXCLUDING OF FLOOR SLABS AND STRUCTURAL MATERIALS. CONTRACTOR TO REMOVE ALL EXISTING "CEILING" DENOTES CEILING MATERIALS INCLUDING GYPSUM, PLASTER, WATER, AND CONCRETE. CONTRACTOR TO REMOVE ALL EXISTING MATERIALS DOWN TO BUT EXCLUDING OF STRUCTURAL MATERIALS. MATERIALS TO BE REMOVED SHALL BE REMOVED TO A POINT 2' ABOVE THE EXISTING FINISH FLOOR. CONTRACTOR TO PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.
- CONTRACTOR TO REMOVE ALL EXISTING WALL. THE OPENING SHALL BE A MINIMUM OF 1'4" LONGER THAN THE FINISHED OPENING REQUIRED TO ALLOW FOR 9" MIN) OF CONCRETE. CONTRACTOR TO PATCH WITH NEW CONCRETE.
- AFTER THE DEMOLITION OF MATERIALS, THE RESULTING OPENING SHALL BE SMOOTH AND FLUSH WITH EXISTING FINISH CONDITIONS.
- MECHANICAL AND ELECTRICAL ITEMS THAT ARE CAPED AND UNCOORDINATED SHALL BE LOCATED BEHIND FINAL FINISH SYSTEMS.
- COORDINATE THIS WORK WITH DEMOLITION WORK ON SITE. THE FOLLOWING WORK IS TO BE COMPLETED PRIOR TO ELECTRICAL:
- REMOVE INTERIOR AND EXTERIOR SHEDDING, BRACING, OR STRUCTURE PREVENT WORK, HOP, OR SET-UP OF ANY OF EXISTING STRUCTURES.
 - CONTRACTOR TO FIELD VERIFY PORTIONS OR SECTION OF EXISTING MATERIALS TO BE FILLED IN AND SARGENT NECESSARY MATERIAL.
 - DEMOLITION MATERIAL SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE DIRECTED BY OWNER.
 - OWNER TO REMOVE EXISTING FURNITURE AND DISPOSED OF ITEMS NOT TO BE REMOVED.
 - CONTRACTOR TO NOTIFY OWNER IN ADVANCE WHEN ITEMS NEED TO BE REMOVED TO CONTRACTOR'S RESPONSIBILITY.
- ITEMS TO BE PATCHED. REMOVE ALL LOOSE OR DAMAGED MATERIAL. REFINISH TO LIKE IN CONDITION, OR IF CONDITION WARRANTS REPLACE NEW ENTIRETY.
- THE FOLLOWING MATERIALS ARE TO BE REMOVED. ANY MATERIALS THAT ARE BEING DEMOLISHED DURING THE CONTRACTOR DISPOSING OF THEIR OFF SITE.
- TURNED OVER TO THE OWNER FOR TAG AND IDENTIFY ITEMS: 2) STORE IN AN ORDERLY FASHION IN A LOCATION DESIGNATED BY THE OWNER.
 - ITEMS TO BE REMOVED TO A POINT 2' ABOVE THE EXISTING FINISH FLOOR.
 - CONSTRUCTION OR RENOVATION SHALL BE REMOVED ITEMS TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY.
 - REMOVAL OF EXISTING WORK. THE EXISTING WALL SURFACES SHALL BE REMOVED TO THE FINISHED FLOOR AS REQUIRED TO RECEIVE NEW FINISHES.

DEMOLITION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
A01	REMOVE BRICK VENEER/ CMU SCREEN WALL IN ITS ENTIRETY INCLUDING ALL STONE CAPS AND ALL BELONGING TO FOUNDATIONS. SEE CIVIL FOR ADDITIONAL INFORMATION.
A02	REMOVE MASONRY WALL IN ITS ENTIRETY. PREPARE ADJACENT SURFACES FOR NEW CONSTRUCTION.
A03	REMOVE EXISTING BRICK WALL AND ALL ASSOCIATED HARDWARE IN ITS ENTIRETY. PREPARE OPENING AND ADJACENT SURFACES FOR NEW WORK.
A04	REMOVE PLUMBING FIXTURE IN ITS ENTIRETY. SEE PLUMBING PIPING AND RAINING DRAWINGS FOR ADDITIONAL INFORMATION.
A05	REMOVE EXISTING CARPET, WALL BASE AND TRANSITIONS. PREPARE ADJACENT FLOOR TO EXISTING SLAB. PREPARE SURFACE TO RECEIVE NEW FINISHES.
A06	REMOVE ALL WALL MOUNTED ACCESSORIES IN ITS ENTIRETY INCLUDING MIRRORS, SPOA DISPENSERS, PAPER TOWEL DISPENSERS, LOCKERS AND DISC SLASH, TOILET TISSUE DISPENSER, FIRE EXTINGUISHER CABINETS.
A07	REMOVE EXISTING FENESTERS AND BASE IN THEIR ENTIRETY.
A08	REMOVE EXISTING CATCHWORK, SHELVING AND OR MILLWORK. REMOVE ALL ASSOCIATED HARDWARE AND ACCESSORIES. PATCH AND REPAIR ADJACENT WALL AND FLOOR SURFACES AND PREPARE TO ACCEPT NEW FINISHES.
A09	REMOVE WALL MOUNTED DISPLAY BOARD / CASE / PROJECTION SCREEN IN ITS ENTIRETY.
A10	REMOVE EXISTING CONCRETE PAVING IN ITS ENTIRETY. PREPARE ADJACENT WALL, FLOOR DURING CONSTRUCTION. SEE CIVIL / STRUCTURAL FOR ADDITIONAL INFORMATION.
A11	REMOVE EXISTING CONCRETE CURB IN ITS ENTIRETY. PREPARE ADJACENT WALL, FLOOR DURING CONSTRUCTION. SEE CIVIL.
A12	REMOVE EXISTING GUARDRAIL IN ITS ENTIRETY. PREPARE TO ACCEPT RETAINING WALL DURING CONSTRUCTION. SEE STRUCTURAL AND CIVIL FOR ADDITIONAL INFORMATION.
A13	REMOVE EXISTING FRAME AND ALL ASSOCIATED HARDWARE IN ITS ENTIRETY. PREPARE OPENING FOR NEW DOOR / FRAME.
A14	REMOVE CHAIN LINK FENCE / GATE IN ITS ENTIRETY.
A15	EXISTING FRAME TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
A16	REMOVE HOLLOW METAL FRAME / WINDOW UNIT IN ITS ENTIRETY. PREPARE WALL FOR NEW WORK.
A17	REMOVE EXISTING METAL FRAME AND WINDOW DIFFUSER PANELS IN THEIR ENTIRETY. REMOVE CPY. BOARD BACK TO METAL STUD WALL FRAMING / FURRING METAL STUD WALL FRAMING TO REMAIN. PREPARE TO RECEIVE NEW FINISHES.
A18	REMOVE EXISTING WOOD TRIM IN ITS ENTIRETY. EXISTING WINDOW / FRAME TO REMAIN. PREPARE TO RECEIVE NEW FINISHES.
A19	REMOVE EXISTING X2 WOOD FRAMED AND PLYWOOD FLOOR SURFACE MEZZANINE AND RAILING IN ITS ENTIRETY.
A20	REMOVE EXISTING STEEL FRAMED AND CONCRETE / METAL DECK WITH STEEL BEAM SURFACE MEZZANINE IN ITS ENTIRETY. INCLUDING METAL GRATING STAIRS AND PIPE RAILINGS.
A21	REMOVE WOOD FRAMED STAIRS AND RAILING IN THEIR ENTIRETY.
A22	REMOVE PORTION OF EXISTING MASONRY / BRICK VENEER WALL. PREPARE FOR NEW OPENINGS. PROVIDE ALL NECESSARY SHORING / SUPPORT FOR REMAINING WALL DURING CONSTRUCTION. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
A23	REMOVE WOOD FRAMED WINDOW UNIT IN ITS ENTIRETY. PREPARE OPENING FOR NEW WORK.
A24	REMOVE METAL ACCESS DOOR IN ITS ENTIRETY. REMOVE WELDINGS CATCH, HOOD AND ALL ASSOCIATED ACCESSORIES. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
A25	REMOVE PORTION OF EXISTING MASONRY WALL. PREPARE FOR NEW OPENING. PROVIDE ALL NECESSARY SHORING / SUPPORT FOR REMAINING WALL DURING CONSTRUCTION. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
A26	REMOVE ALUMINUM STOREFRONT DOOR / GLAZING SYSTEM IN ITS ENTIRETY. INCLUDING ALL ASSOCIATED SUPPORTS / BRACING. PREPARE ADJACENT SURFACES FOR NEW FINISHES.
A27	REMOVE ALUMINUM FRAMED GLAZING SYSTEM IN ITS ENTIRETY. PREPARE ADJACENT SURFACES FOR NEW FINISHES.
A28	REMOVE VINYL, WALL COVERING AND CPY. BOARD BACK TO CMU SUBSTRATE. PREPARE CMU FOR NEW FINISHES.
A29	REMOVE EXISTING PLUMBING FIXTURE. SEE PLUMBING PIPING AND RAINING DRAWINGS FOR ADDITIONAL INFORMATION.
A30	REMOVE PAINT BOOT IN ITS ENTIRETY. INCLUDING ALL ASSOCIATED NETWORK. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
A31	REMOVE PORTION OF TERRAZZO FLOORING DOWN TO CONCRETE SLAB. PREPARE FLOOR DURING CONSTRUCTION. PREPARE SELF-LEVELING FLOOR PATCH AS REQUIRED AND PREPARE SLAB FOR NEW FINISHES.
A32	EXISTING LOCKERS TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
A33	SAWCUT AND REMOVE PORTION OF EXISTING SLAB FOR NEW FOOTING. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITION. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ARCHITECTURAL PLAN GENERAL NOTES

- A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF HEIGHTS SHOULD BE BALANCED SO AS TO NOT HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
- B. WHERE DISMISSAL FLOOR MATERIALS MEET, THEY MUST BE FINISHED UNDER THE SAME FINISH LINE OF THE ROOM, UNLESS NOTED OTHERWISE.
- C. THERE SHALL BE PERIMETER INSULATION CONTINUOUS THROUGHOUT UNDER THE PERIMETER OF THE BUILDING EXTENDING 2" MINIMUM BELOW GRADE.
- D. THE BASE FLOOR ELEVATION INDICATED FOR THE PERIMETER OF REFERENCE SHALL BE THE FINISH FLOOR CORRELATION TO USGS DATUM.
- E. ALL INTERIOR WALLS SHALL THAT RUN TO THE PERIMETER OF THE ROOM ABOVE THE FINISH JOINT (J.N.G.) AT THE DECK TO BE FILLED WITH FIBER STOPPING AT RATED WALLS PER PROJECT MANUAL.
- F. ALL MINOR DOOR, AT THE MONITORED WALLS, TO ALLOW FOR CONNECTION.
- G. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION CONFORMANCE, REFER TO DETAILS ON SHEET XX.
- H. ALL DIMENSIONS ON CONCRETE FLOOR PLANS ARE TO FINISH SURFACE OF CONCRETE. BRICK OR FINISH FACE OF GWS AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION EXTERIOR METAL STUD WALLS, FINISH FACE OF METAL STUD.
- I. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE 1/2" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- J. ALL EXPOSED CONCRETE MONUMENTARY UNITS (CMU) SHALL BE FINISHED TO BE BUILT TO MATCH THE FINISH AT BULKHEADS, WINDOW AND DOOR HEADS.
- K. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATION AND DETAIL.
- L. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH MATERIALS.
- M. PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN L. METAL STUD WALLS FOR WALL MOUNTED ITEMS.
- N. REFER TO ROOM FINISH SCHEDULE OR PLAN FOR INFORMATION AND FIRE RATED WALL LOCATIONS.
- O. PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER AT INTERSECTION OF EXTERIOR WALLS AND DECK.

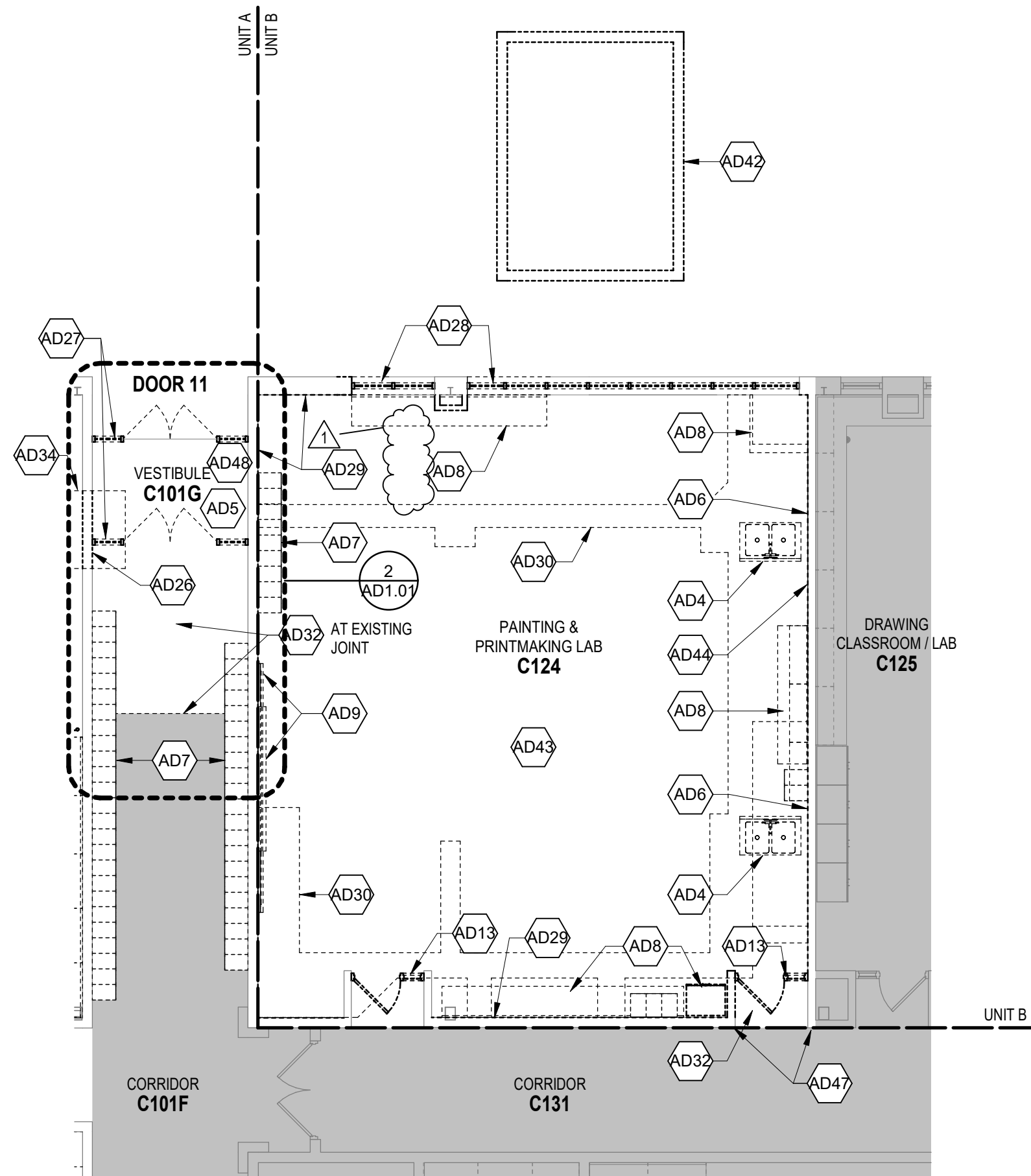
ARCHITECTURAL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
	INDICATES WALL TYPE. REFER TO DRAWING AT 1/8" ON WALL THICKNESS, HEIGHT AND COMPOSITION
	NO. 1
	INFILL PORTION TO MATCH EXISTING WALL CONSTRUCTION WITH ADJACENT SURFACES TO SHOW NO EVIDENCE OF CONSTRUCTION. TOOTH-IN MASONRY WITH EXISTING.
2	CONCRETE FILL, METAL PAIN STRIPS. SEE A1102 FOR ADDITIONAL INFORMATION.
3	WIRE MESH PARTITION SYSTEM. INCORPORATE MORITSE LOCK CYLINDER AND CORE IN GATE. SEE DOOR SCHEDULE AND DRAWING FOR ADDITIONAL INFORMATION.
4	PRE-FINISHED SLIP LOCKERS. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION.
5	PROVIDE NEW ACQUADUAL WALL TREATMENT. SEE FINIS PLANS, INTERIOR ELEVATIONS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6	24" WIDE, FIXED ALUMINUM ACCESS LADDER. SEE DETAIL B4102.
7	MEMBRANE ROOF SYSTEM. SEE ROOF PLAN FOR ADDITIONAL INFORMATION.
8	METAL PANEL MARBRAL SYSTEM. SEE A1102.
9	KITCHEN EQUIPMENT. SEE FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
10	INFILL PORTION OF CONCRETE SLAB. FINISH FLUSH WITH EXISTING. MATCH LUMBER FOR ADJACENT SURFACES.
11	INDICATES 12" X 12" AREA FOR STUDENT-BUILT HOUSE BUT (FOR REFERENCE ONLY)
12	INDICATES 12" X 32" AREA FOR STUDENT-BUILT TIMY HOME (FOR REFERENCE ONLY)
13	ACQUADUAL SEAL ALL WALL PENETRATIONS ABOVE CEILING, BOTH SIDES OF WALL. FINISH MASONRY OPENING WITH CONCRETE MORTAR AS REQUIRED.
14	EXISTING STEEL BASE AND WOOD TOP WORKBENCHES. COORDINATE FINAL LOCATION WITH OWNER UPON REVIEW OF OTHER REQUIREMENTS.
15	2"LAYERS OF 8"X 8" TYPE "X" GYP. BOARD OVER EXISTING METAL FURRING. EXIST' GYP. BOARD AND STEEL TOP ED TO MATCH EXIST' WORK.
16	PROVIDE WOOD FLOOR FRAMING TO MATCH EXISTING DESIGN AND REPLACE TILE ACCESS FLOOR. SEE DETAIL B2107.
17	INFILL PORTION OF CONCRETE SLAB. FINISH FLUSH WITH EXISTING. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
18	CONCRETE ED STEEL PIPE BOLLARD WITH COVER. SEE DETAIL B1107 FOR ADDITIONAL INFORMATION.
19	1" PRE-COMRESSED BUILDING EXPANSION JOINT WITH CONTINUOUS SEALANT.
20	EXISTING EQUIPMENT CASEWORK. SEE EQUIPMENT PLANS FOR ADDITIONAL INFORMATION.
21	13'W X 12'H MASONRY. REFER TO STRUCTURAL.
22	GUARDRAIL GATE. SEE S-7/A1101.
23	ADJUST TO MATCH EXISTING WALL CONSTRUCTION. GROUND FACE CMU TO MATCH EXISTING. FULL HEIGHT. FINISH FLUSH WITH ADJACENT SURFACES TO SHOW NO EVIDENCE OF CONSTRUCTION. TOOTH-IN MASONRY WITH EXISTING.
24	PAINT BOOTH EXHAUST. UP THROUGH ROOF. SEE EQUIPMENT PLANS AND DRAWING FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION, DIMENSIONS AND OPENINGS BETWEEN ALL TRADES AND EQUIPMENT MANUFACTURER.
25	SEMI-RECESSED FIRE EXTINGUISHER CABINET. SEE 3/A11 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
26	SALVAGE EXISTING BRICK VENEER FROM DEMOLITION AND PLACE IN NEW BRICK VENEER. SEE DETAIL B2107.

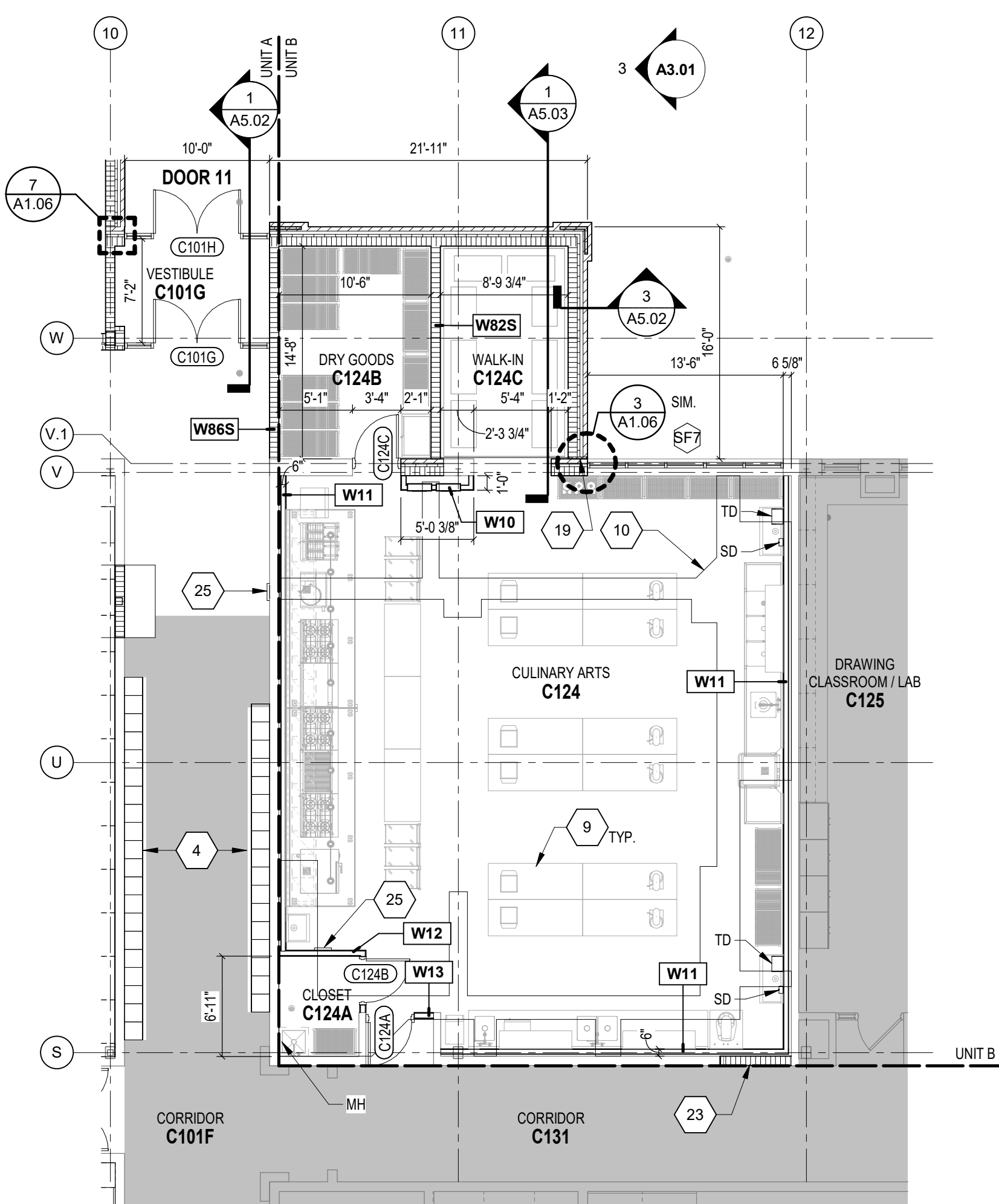
VERIFICATION NOTE

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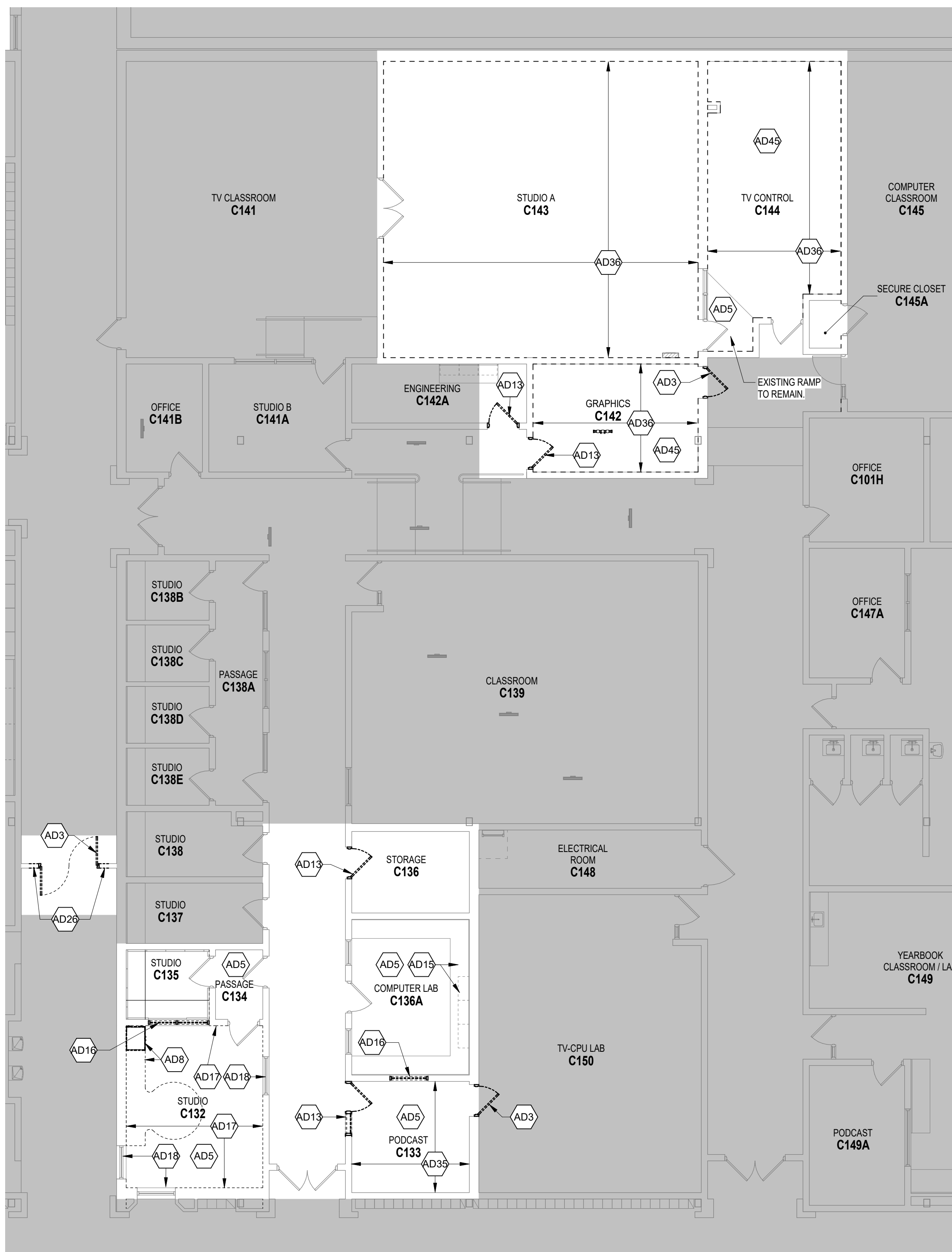
UNIT B - FIRST FLOOR DEMOLITION PLAN

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



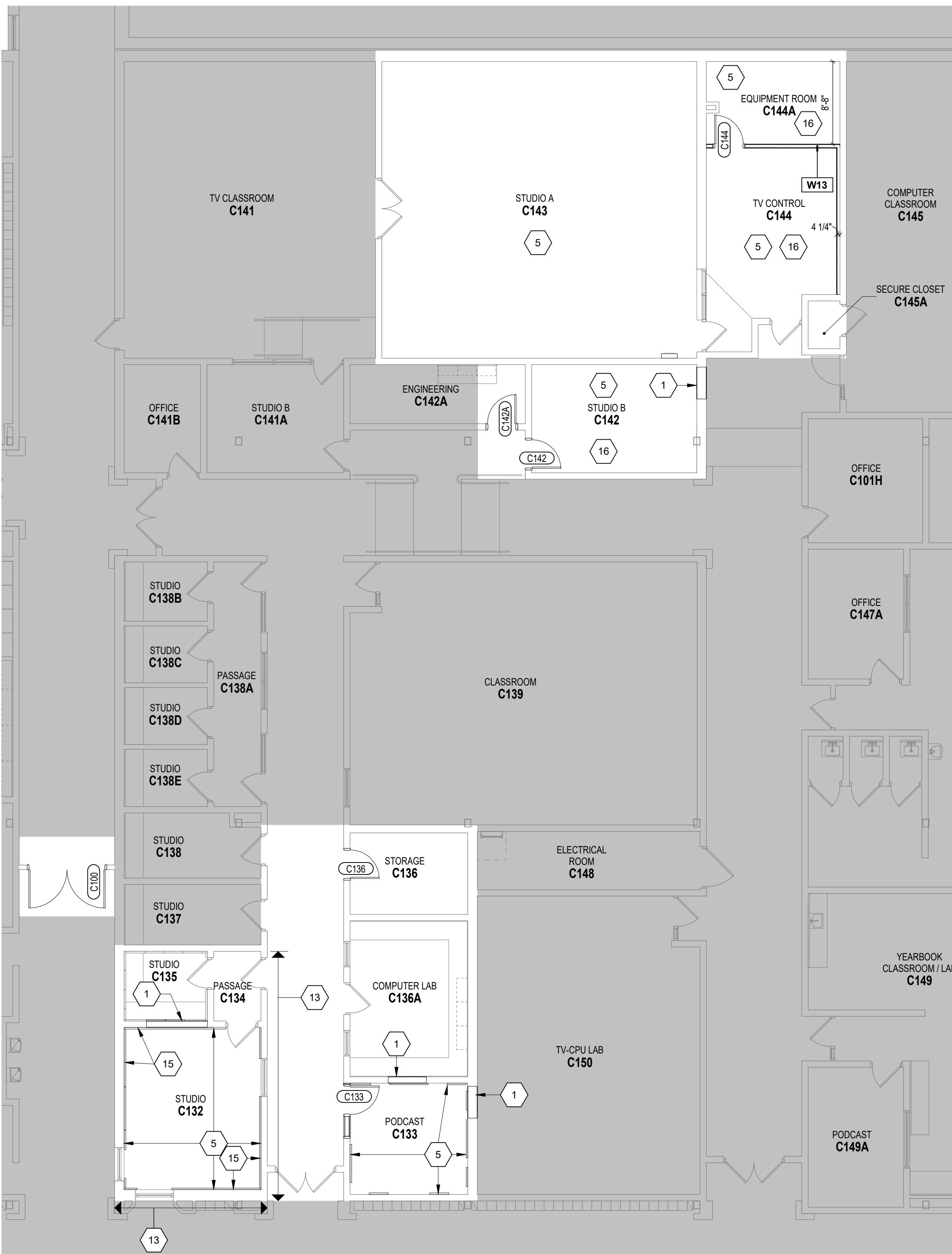
UNIT B - FIRST FLOOR ARCHITECTURAL PLAN

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



UNIT C - FIRST FLOOR DEMOLITION PLAN

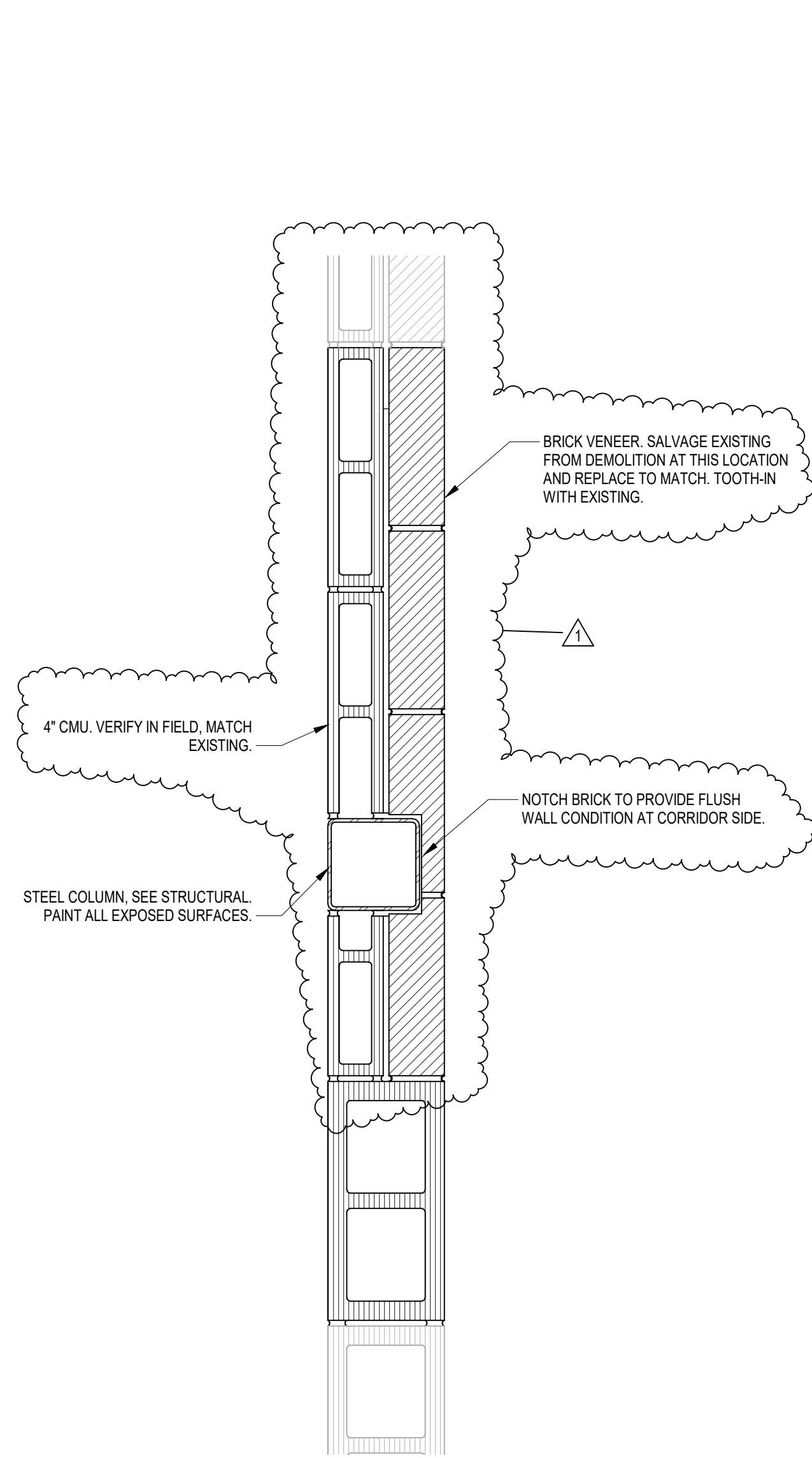
SCALE: 1/8" = 1'-0"



UNIT C - FIRST FLOOR ARCHITECTURAL PLAN

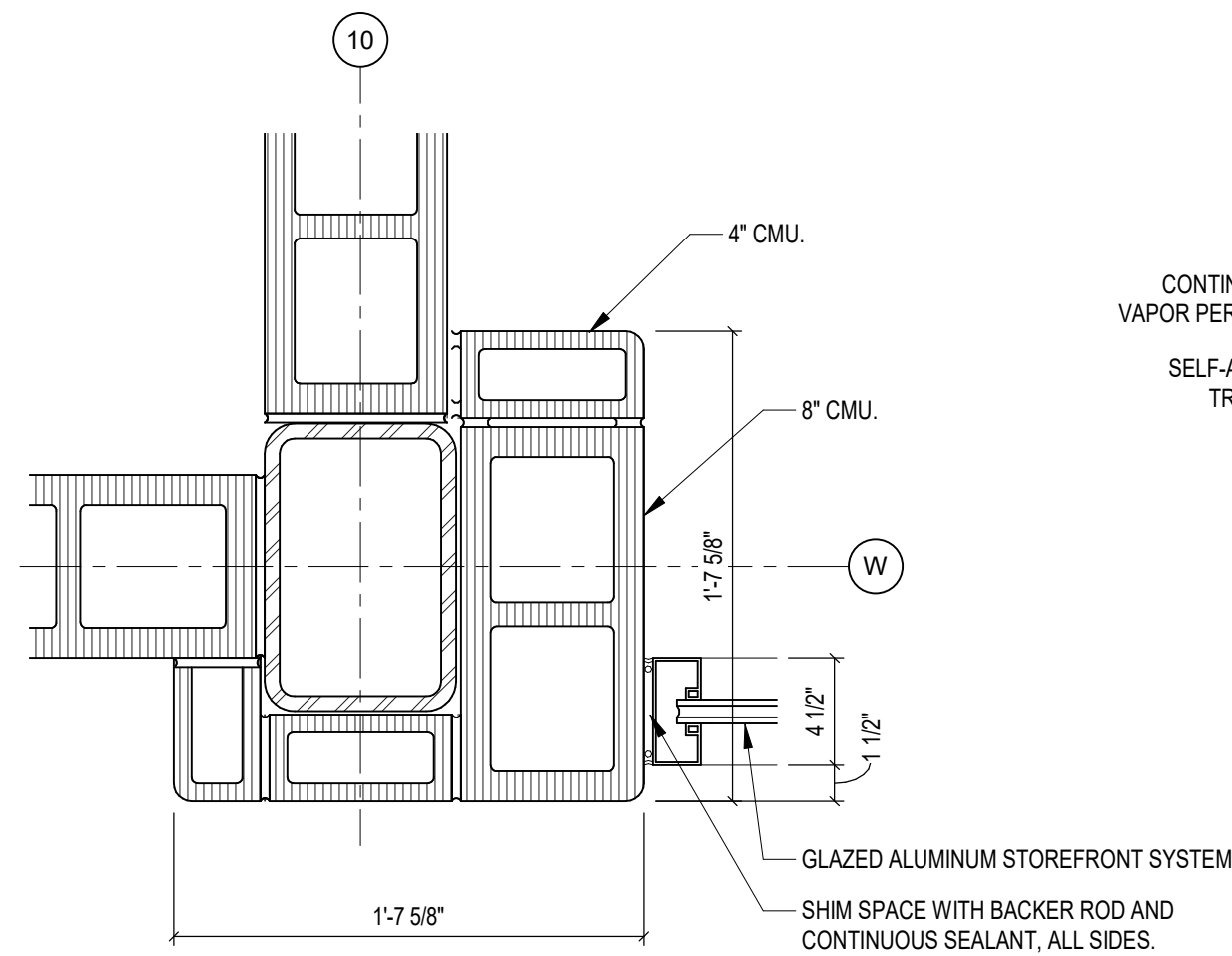
SCALE: 1/8" = 1'-0"

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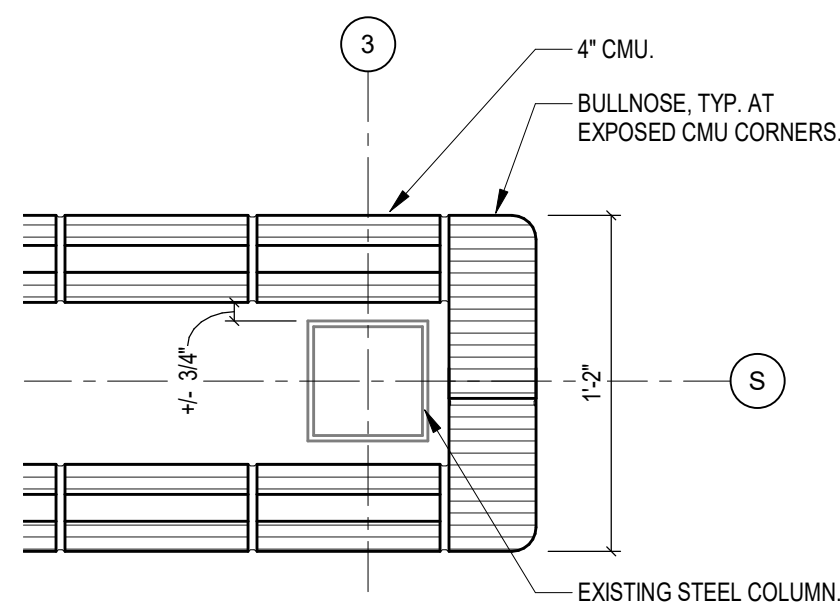
12 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



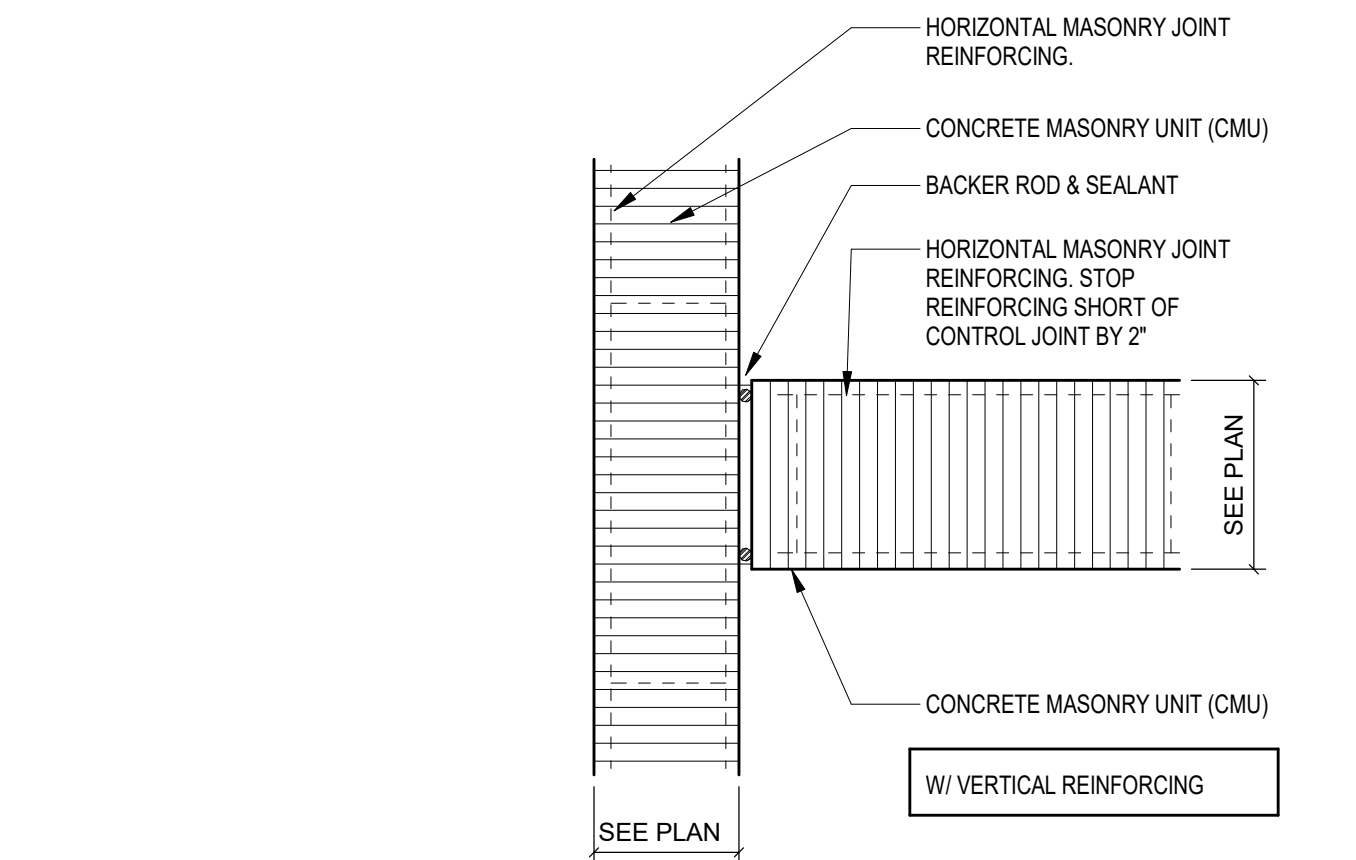
8 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



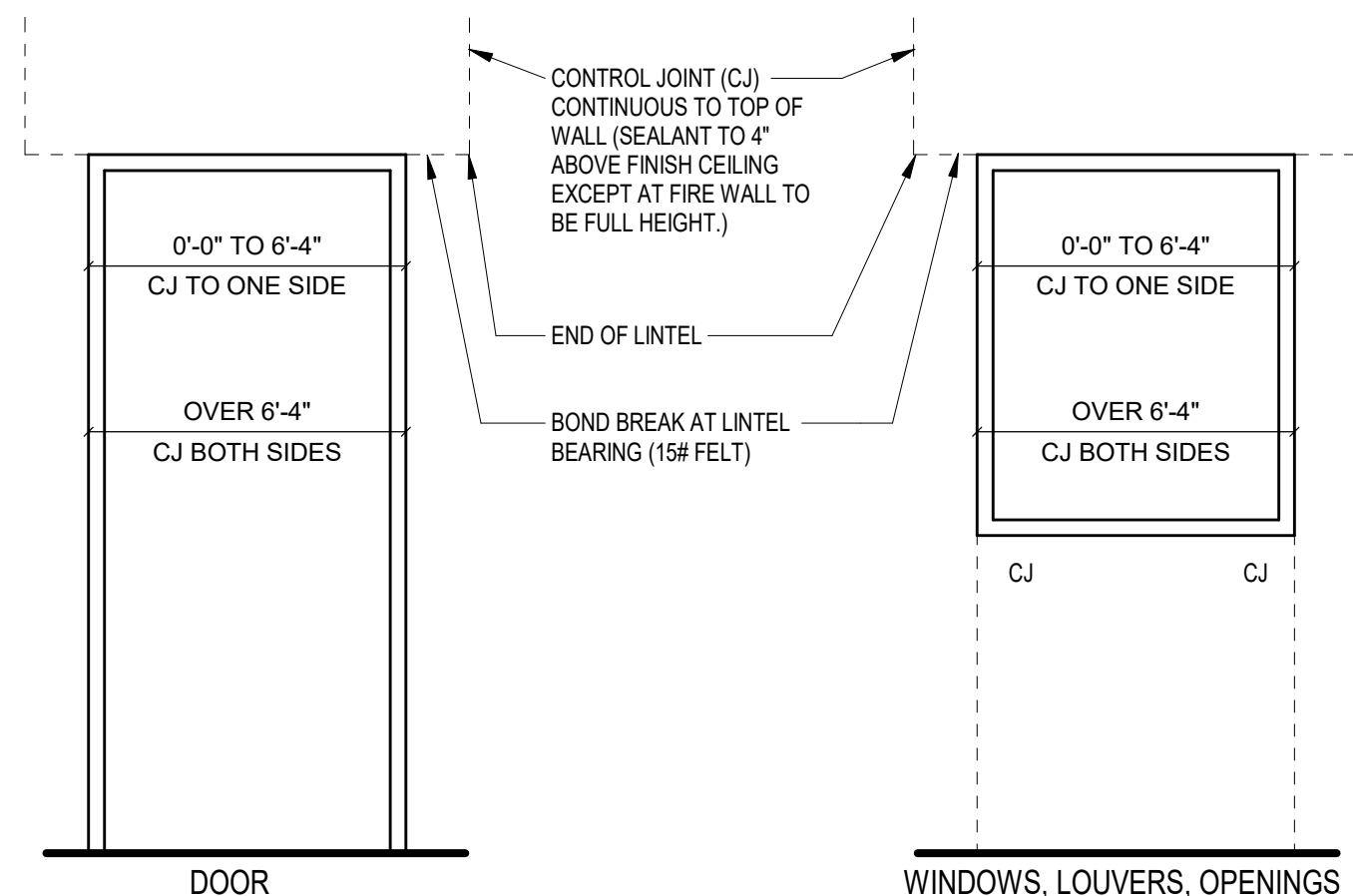
4 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



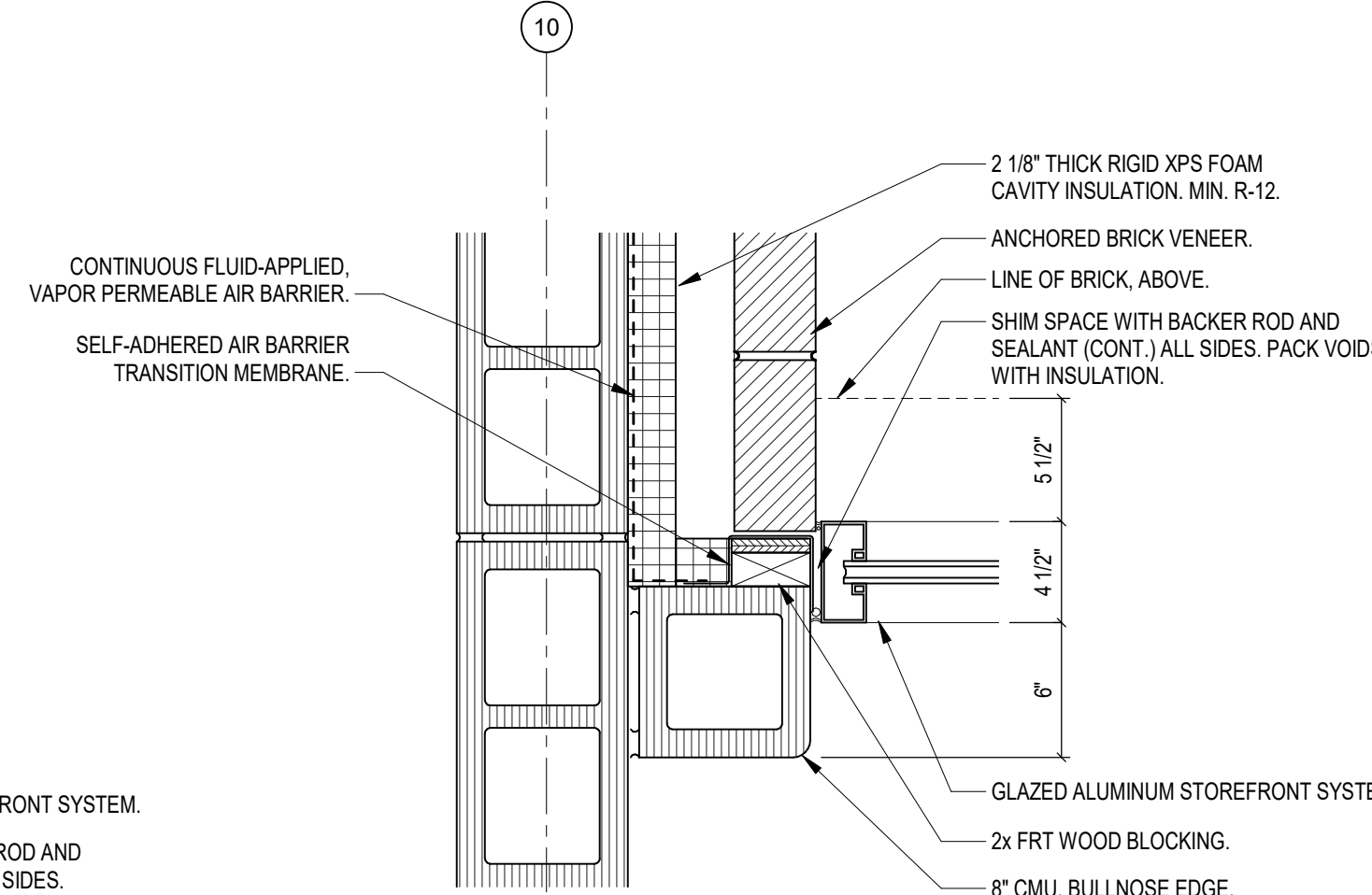
15 TYPICAL CONTROL JOINT

SCALE: 1 1/2" = 1'-0"



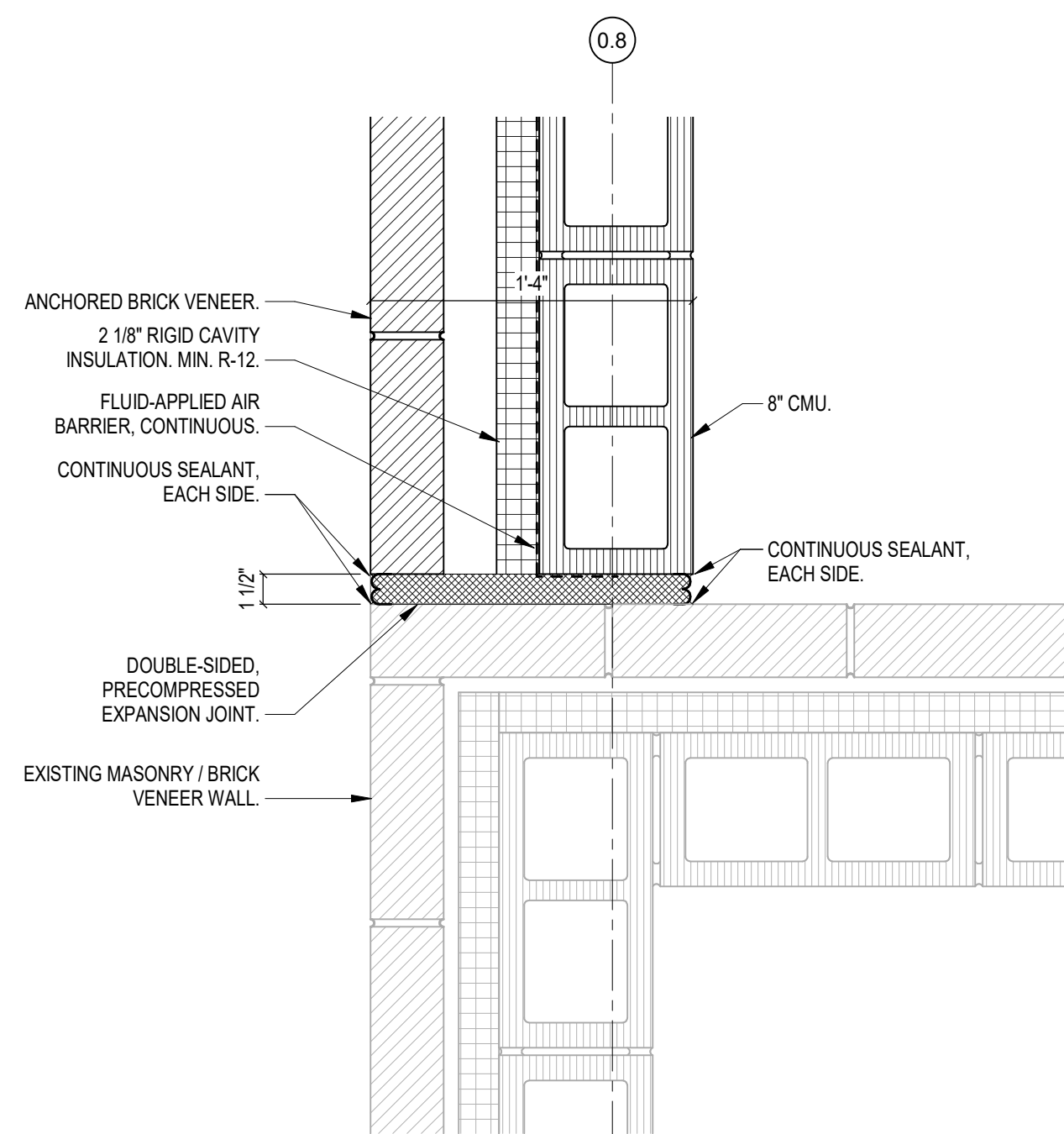
11

TYPICAL PLACEMENT OF CONTROL JOINTS IN CMU WALLS AT OPENINGS



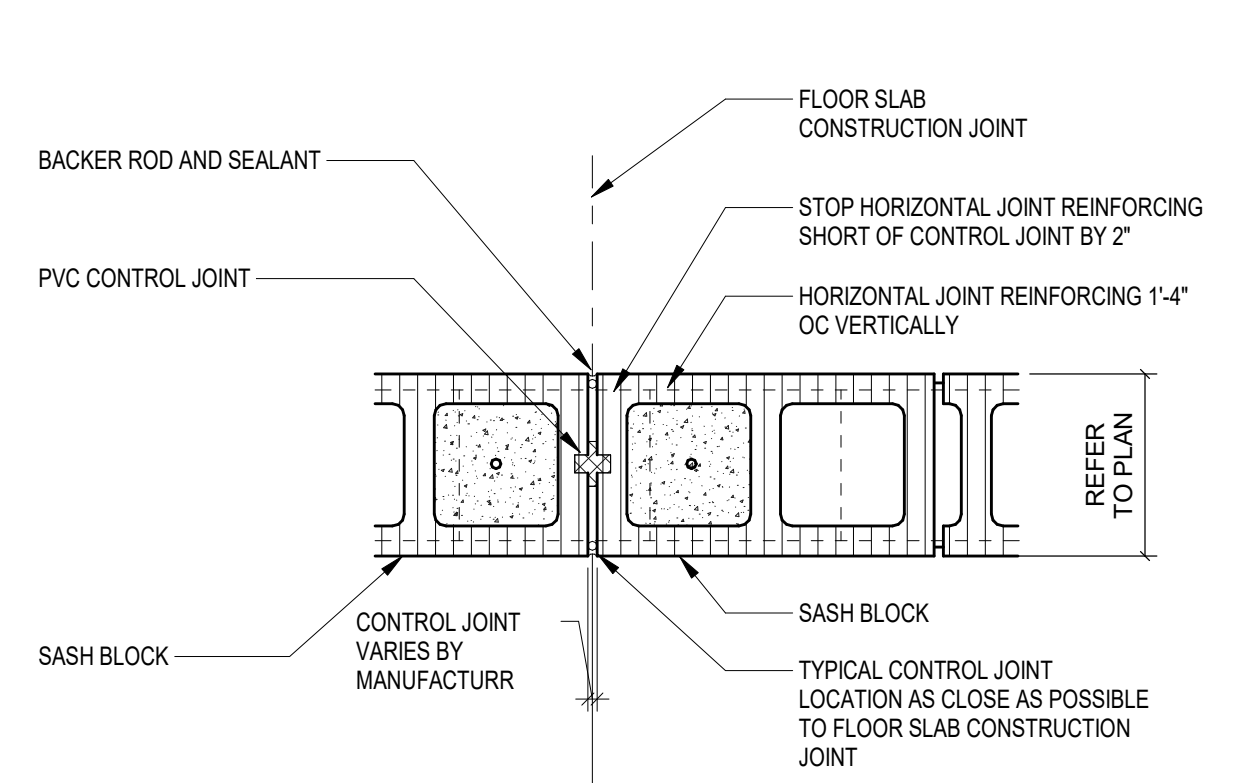
7 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



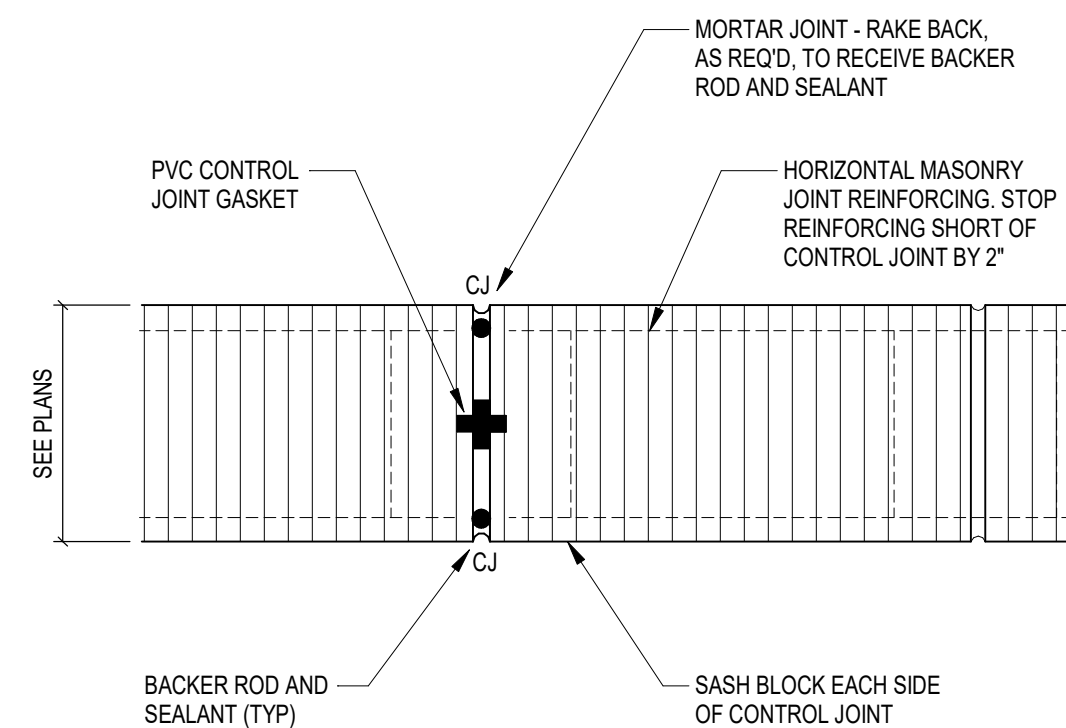
3 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



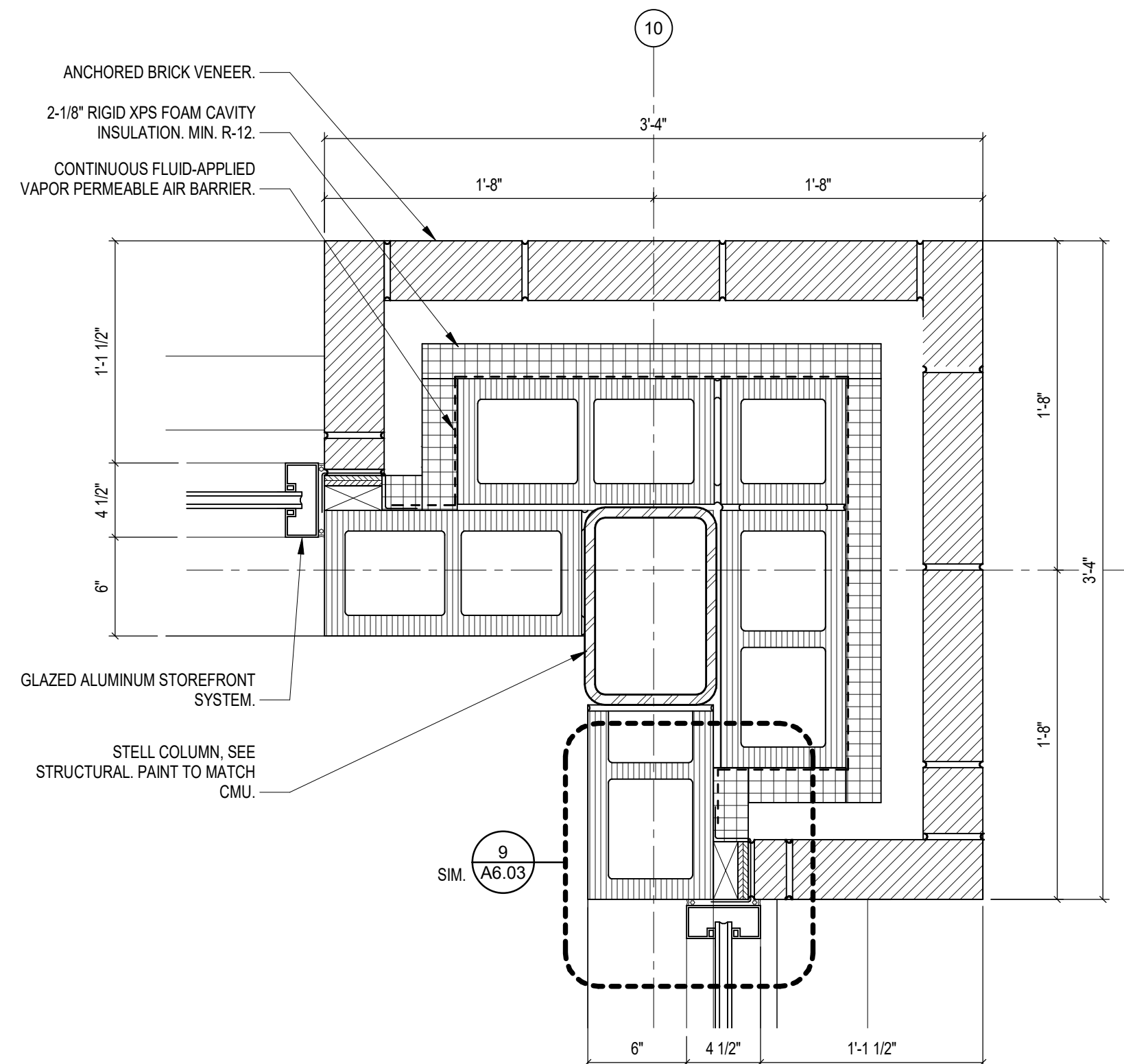
14 CMU CONTROL JOINT (CJ) @ FLOOR

SCALE: 1 1/2" = 1'-0"



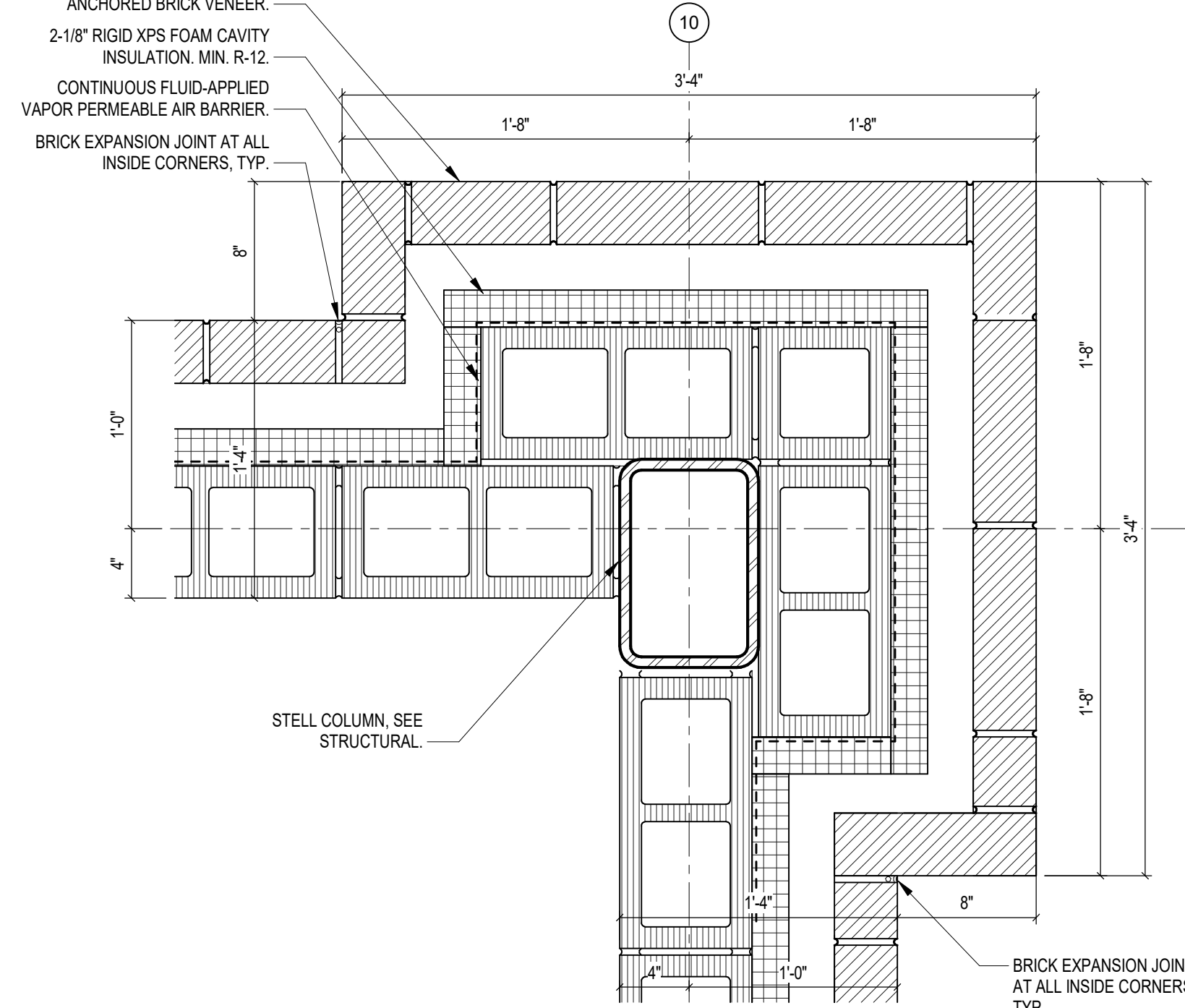
10 CMU CONTROL JOINT (CJ)

SCALE: 1 1/2" = 1'-0"



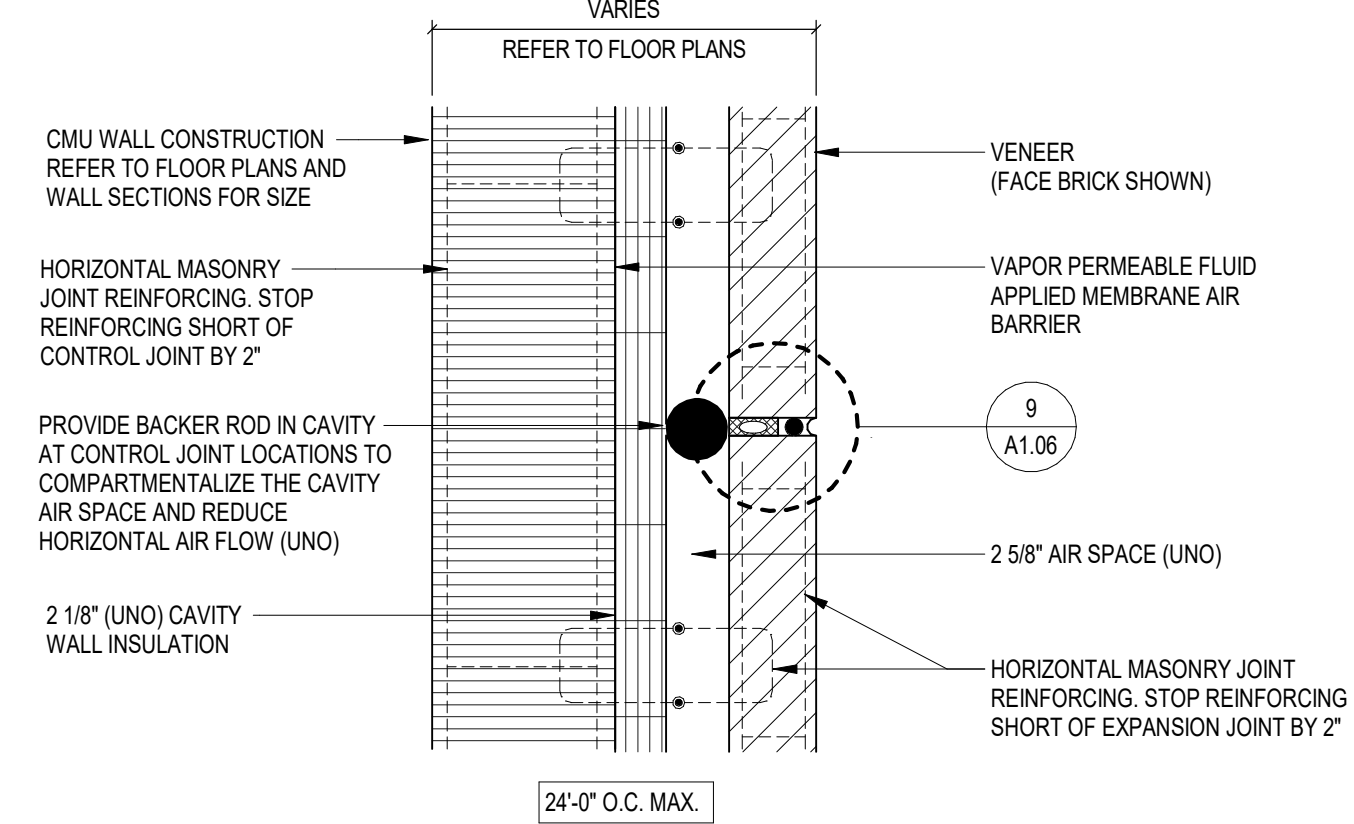
6 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



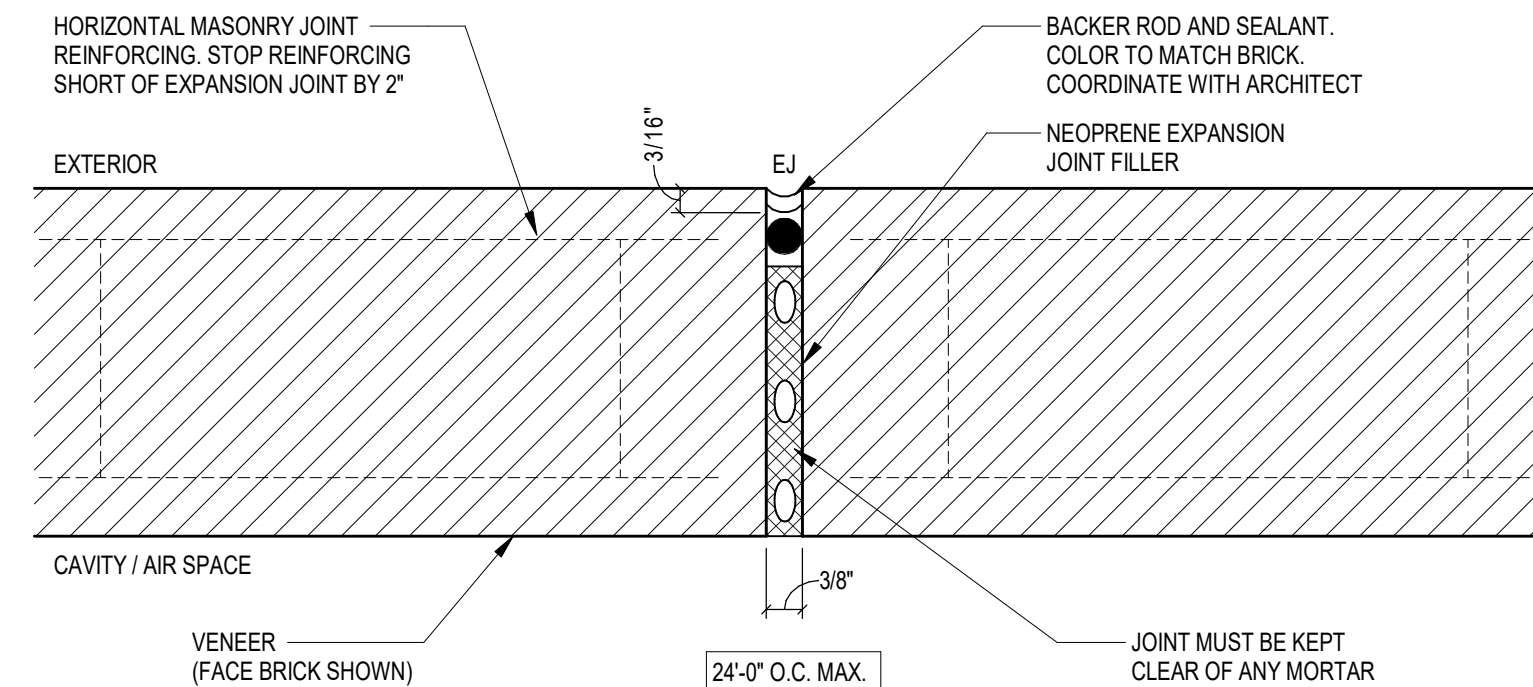
2 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



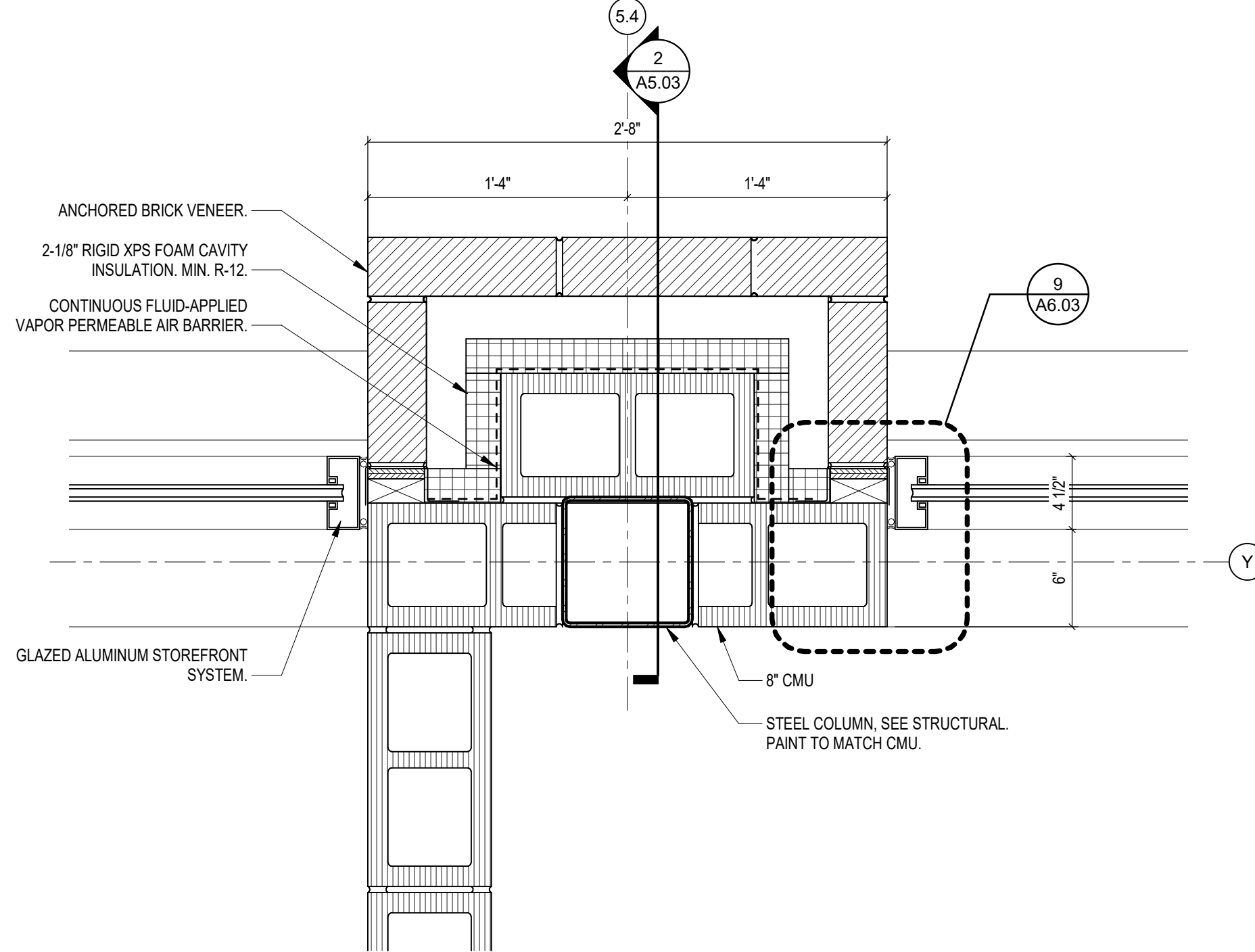
BRICK EXPANSION JOINT (EJ) AT CMU CAVITY WALL

13



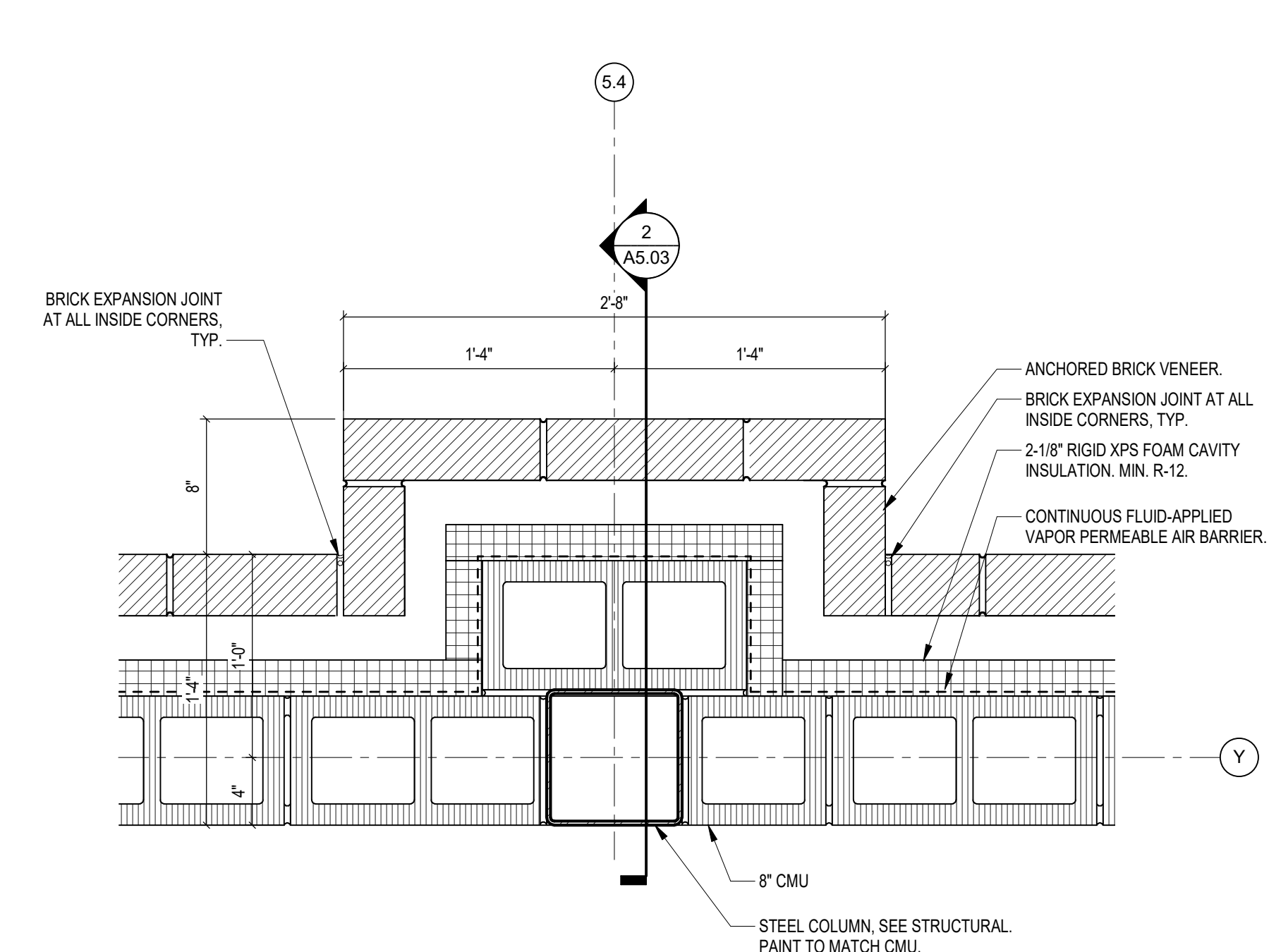
9 BRICK EXPANSION JOINT (EJ)

SCALE: 1 1/2" = 1'-0"



5 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



1 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"

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CARMEL HIGH SCHOOL POLYTECHNIC ADDITION AND RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

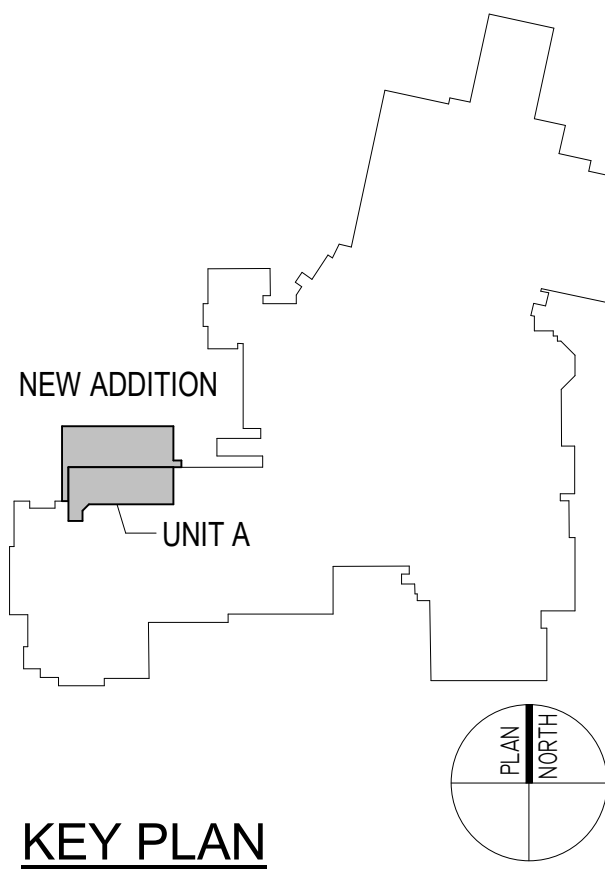
CARMEL CLAY SCHOOLS



ARCHITECT

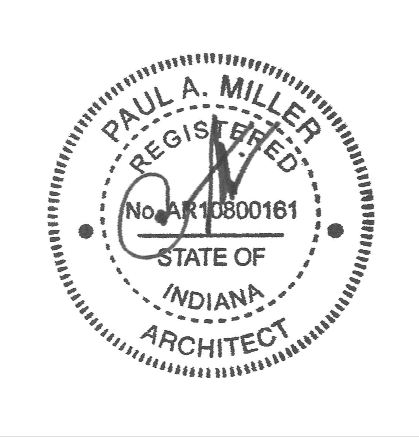
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KEY PLAN

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DRAWN BY: DSR

PROJECT NUMBER: 221165.01

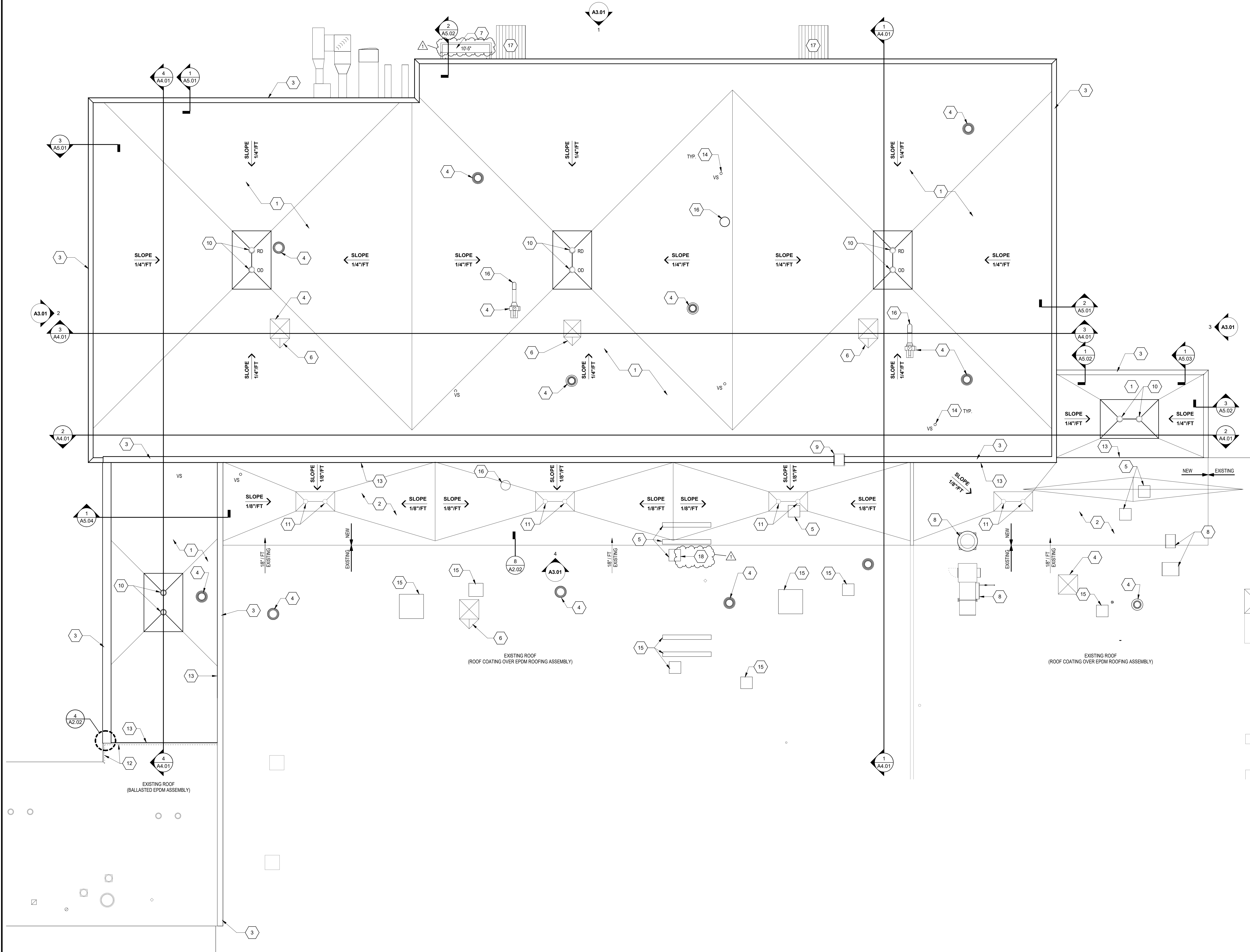
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

PLAN DETAILS AND TYPICAL
MASONRY DETAILS

A1.06

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

ROOF PLAN GENERAL NOTES

- ALL DETAILS SHOWN ARE FOR GENERAL INFORMATION. ALL FINAL FLASHING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE ROOF INSTALLER, AND SHALL MEET APPROVAL OF ROOF MANUFACTURER.
- ALL DETAIL MODIFICATIONS MUST HAVE SHOP DRAWINGS APPROVAL. CONTRACTOR SHALL INSPECT AND VERIFY ALL EXISTING FIELD CONDITIONS, CLEARANCES, AND DIMENSIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT ARCHITECT BEFORE PROCEEDING WITH ANY FURTHER WORK.
- OPENINGS IN ROOF WILL BE CUT BY ROOF CONTRACTOR. MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF OPENING IN ROOF WITH ROOF CONTRACTOR. CURB TO BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ROOF CONTRACTOR.
- PROVIDE FLASHING AND SADDLES FOR ALL EQUIPMENT PROVIDED UNDER MECHANICAL.
- SADDLES AND TAPERED INSULATION SYMBOLS INDICATE DESIGN INTENT TO SLOPE TO DRAIN. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS FOR TAPERED INSULATION AND SADDLES TO INSURE POSITIVE SLOPE.
- THE ROOF CONTRACTOR SHALL PROTECT ALL ROOF DRAINS, SCUPPERS, AND DOWNSPOUTS FROM DEBRIS CREATED DURING DEMOLITION AND CONSTRUCTION. THE ROOF CONTRACTOR SHALL INSPECT AND CLEAR ALL DRAINS, SCUPPERS, AND DOWNSPOUTS PRIOR TO COMPLETION OF WORK AND TO ENSURE THAT THEY ARE FREE OF DEBRIS AND ARE FUNCTIONING PROPERLY.

ROOF PLAN NOTES

- * MECHANICAL, ELECTRICAL AND PLUMBING INFORMATION SHOWN ON THIS PLAN IS GENERAL IN NATURE. REFER TO P, M AND E DRAWINGS FOR FURTHER INFORMATION AND COORDINATE ALL REQUIRED ROOF OPENINGS OR ROOF MOUNTED EQUIPMENT.

NO. DESCRIPTION

- MEMBRANE ROOFING SYSTEM (ADHERED) ON 1/4" COVER BOARD OVER FLAT AND TAPERED ROOF INSULATION (1/4" PER FT) OVER VAPOR BARRIER ON METAL ROOF DECK.
- MEMBRANE ROOFING SYSTEM (ADHERED) ON 1/4" COVER BOARD OVER FLAT AND TAPERED ROOF INSULATION TO MATCH EXISTING ROOF THICKNESS AND SLOPES INDICATED.
- PREFINISHED METAL COPING SYSTEM. SEE MECHANICAL DRAWINGS AND 5/A2.02.
- PATCH EXISTING ROOF PENETRATION. SEE STRUCTURAL FOR METAL DECK PATCHING DETAILS/ REQUIREMENTS.
- PROVIDE TAPERED SADDLE AT MECHANICAL EQUIPMENT.
- PRE-ENGINEERED METAL WALKWAY COVERING SYSTEM WITH INTEGRAL DOWNSPOUTS.
- KITCHEN EQUIPMENT. SEE FOOD SERVICE DRAWINGS. PROVIDE INSULATED CURB SYSTEM.
- 24" WIDE FIXED ALUMINUM ACCESS LADDER WITH PLATFORM OVER PARAPET. SIMILAR TO O'KEEFE'S MODEL 503.
- ROOF DRAIN / OVERFLOW DRAIN. SEE 1/A2.02 AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- RE-INSTALL EXISTING ROOF DRAIN ASSEMBLY. INSTALL PER DETAIL 1/A2.01.
- PREFINISHED METAL FASCIA TO MATCH ADJACENT PROFILE AND COLOR OF EXISTING BUILDING FLASH-IN WITH EXISTING. BALLASTED, MEMBRANE ROOF SYSTEM.
- 2" ROOF EXPANSION JOINT ASSEMBLY. SEE WALL SECTIONS AND DETAILS.
- CENT STACK. SEE PLUMBING DRAWINGS AND 6/A2.02.
- PROVIDE INSULATED, STAINLESS STEEL CAP OVER EXISTING ROOF CURB. RE-FLASH EXISTING ROOF MEMBRANE AND RE-COAT AS REQUIRED FOR WEATHER-PROOF SEAL.
- METAL DUCT / FLUE. SEE 7/A2.02.
- STANDING SEAM METAL ROOF ASSEMBLY OVER FULL COVERAGE SELF-ADHERED SHEET UNDERLAYMENT OVER 5/8" SUBSTRATE BOARD OVER METAL ROOF DECK. SEE 9/A2.02.
- PATCH EXISTING ROOF PENETRATION WITH METAL DECK AND FLAT AND TAPERED INSULATION TO MATCH EXISTING ROOF THICKNESS. SLOPE, ADHERE NEW MEMBRANE TO EXISTING AND RE-COAT TO MATCH EXISTING.

ROOF PLAN SYMBOL LEGEND

- 12'-0"
(UND)
- INDICATES ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). (FLASH IN ACCORDANCE WITH ROOF MEMBRANE MANUFACTURER'S RECOMMENDATION.) REFER TO DETAIL 1/A2.02.
- VS
- INDICATES VENT STACK - REFER TO PLUMBING DRAWINGS AND 6/A2.02.
- FL
- INDICATES FLUE - REFER TO MECHANICAL DRAWINGS AND 7-A2.??
- MECHANICAL EQUIPMENT
- INDICATES MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS AND 5/A2.02.
- SLOPE 7/12
- INDICATES ROOF SLOPE
- INDICATES ROOF SADDLE - REFER TO PROJECT MANUAL.
- INDICATES EXPANSION JOINT - REFER TO ROOF PLAN AND WALL SECTIONS.
- INDICATES WALL LINE BELOW - REFER TO ARCHITECTURAL FLOOR PLANS
- DS
- INDICATES METAL DOWNSPOUT - REFER TO ROOF PLAN AND BUILDING ELEVATIONS FOR LOCATIONS
- INDICATES WALKWAY PADS - REFER TO PROJECT MANUAL
- INDICATES ICE AND WATER SHIELD MEMBRANE FLASHING - REFER TO PROJECT MANUAL

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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**CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION**

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



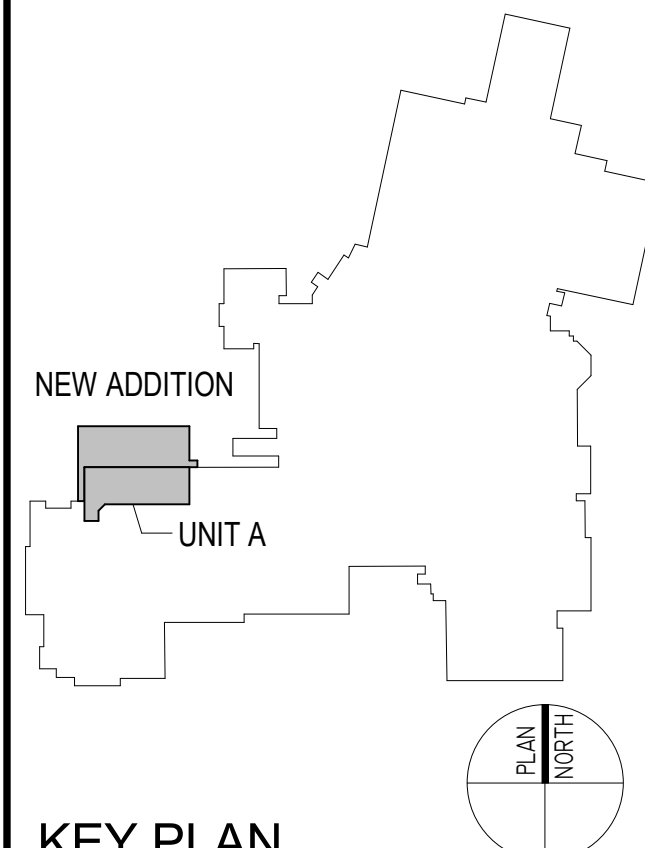
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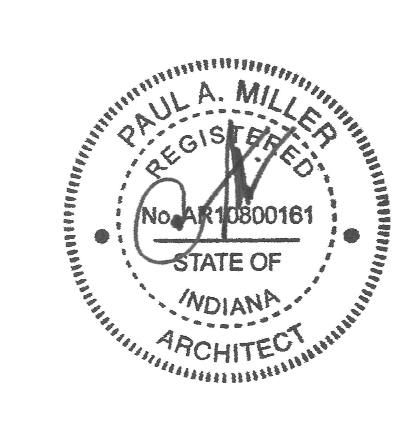
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KEY PLAN

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PROJECT NUMBER: 221165.01

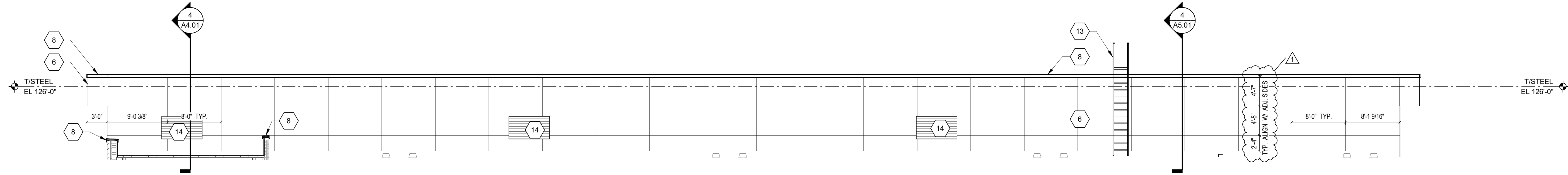
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

UNIT A - ROOF PLAN

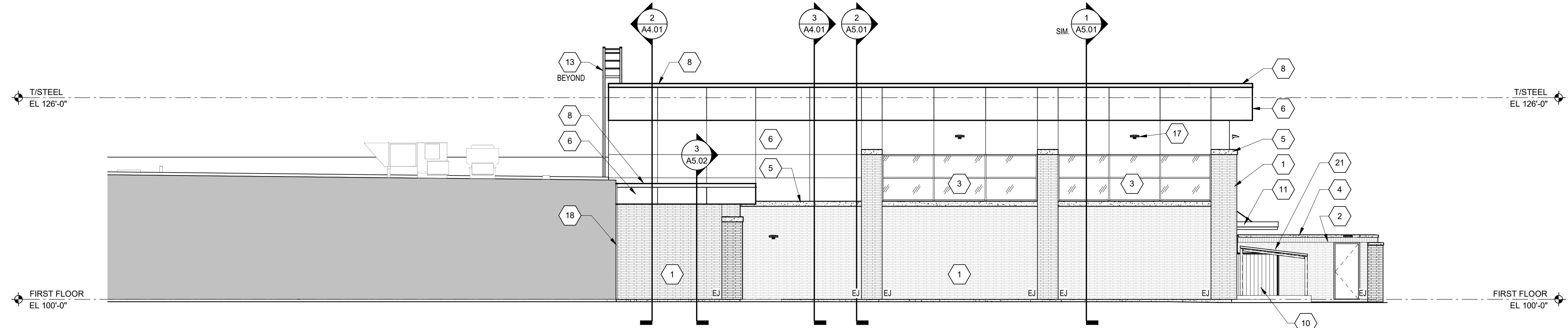
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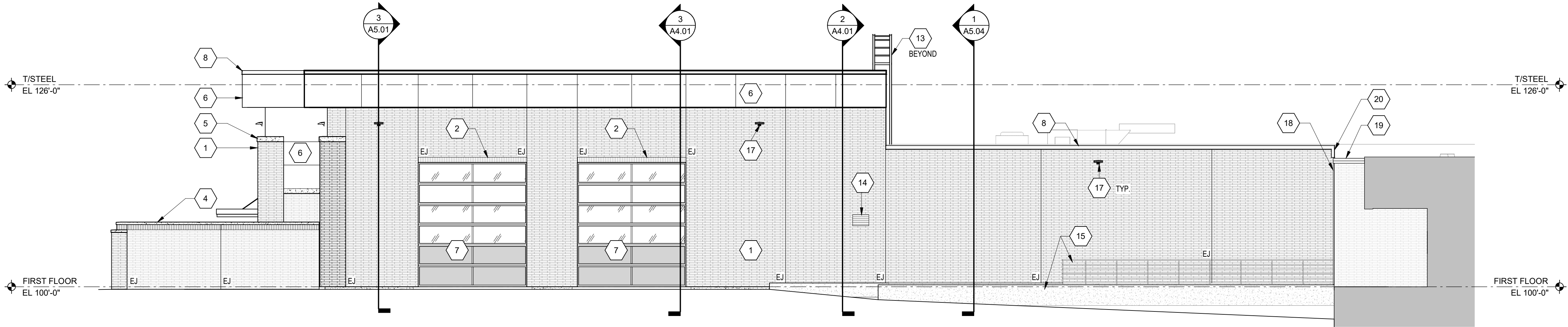
4 BUILDING ELEVATION - SOUTH

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



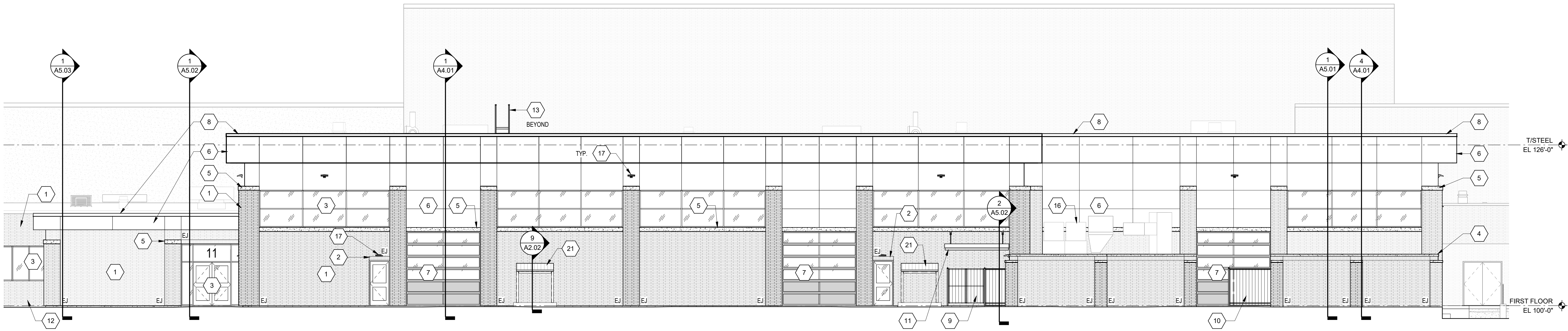
3 BUILDING ELEVATION - EAST

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



2 BUILDING ELEVATION - WEST

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



1 BUILDING ELEVATION - NORTH

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

ELEVATION GENERAL NOTES

- REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.
- REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.
- REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

BUILDING ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO. DESCRIPTION

- ANCHORED BRICK VENER.
- BRICK VENER SOLDIER COURSE AT DOOR HEADS. SEE DOOR DETAILS FOR ADDITIONAL INFORMATION.
- ALUMINUM FRAMED STOREFRONT SYSTEM.
- 4" TALL CAST STONE BAND / CAP WITH CUT DRIP EDGE. PROVIDE BACKER ROD AND CONTINUOUS SEALANT AT ALL JOINTS.
- 8" TALL CAST STONE BAND / CAP WITH CUT DRIP EDGE. PROVIDE BACKER ROD AND CONTINUOUS SEALANT AT ALL JOINTS.
- METAL COMPOSITE MATERIAL (MCM) WALL PANEL SYSTEM. GLAZED SECTIONAL DOOR SYSTEM. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- PRE-FINISHED METAL COPING SYSTEM. VERTICAL SLAT FENCE ENCLOSURE WITH SWING GATE. SEE CIVIL FOR ADDITIONAL INFORMATION.
- VERTICAL SLAT ROLLING GATE. SEE CIVIL FOR ADDITIONAL INFORMATION.
- PRE-ENGINEERED METAL WALKWAY COVERING SYSTEM WITH INTEGRAL DOWNSPOUTS.
- EXISTING BRICK VENER / CMU WALL TO REMAIN. MODIFY ONLY AS REQUIRED FOR INSTALLATION OF NEW EXTERIOR WALL AND NEW ALUMINUM STOREFRONT WINDOW.
- 24" WIDE FIXED ALUMINUM ACCESS LADDER WITH PLATFORM OVER PARAPET, SIMILAR TO O'KEEFES MODEL 503.
- PRE-FINISHED METAL LOUVER. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
- EXISTING CONCRETE RETAINING WALL AND METAL GUARDRAIL TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PREFORMED JOINT SEAL. SEE PLAN DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PRE-FINISHED METAL COPING SYSTEM TO MATCH ADJACENT PROFILE AND COLOR ON EXISTING BUILDING.
- TURN METAL COPING VERTICALLY AT END WALL TO CAP WALL AND SHED OVER ADJACENT. LOWER COPING.
- STANDING SEAM METAL ROOF ASSEMBLY. SEE ROOF PLANS FOR ADDITIONAL INFORMATION.

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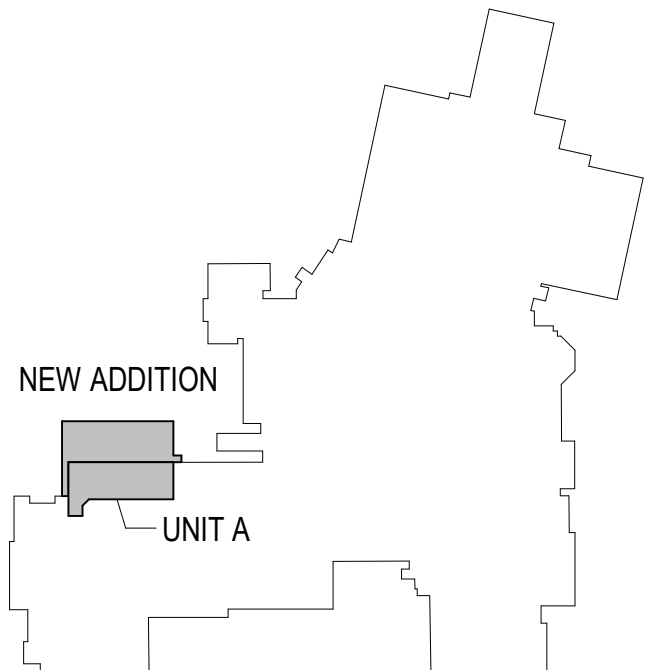
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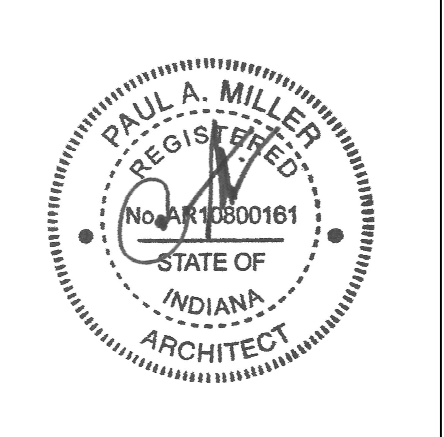
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KEY PLAN

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PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

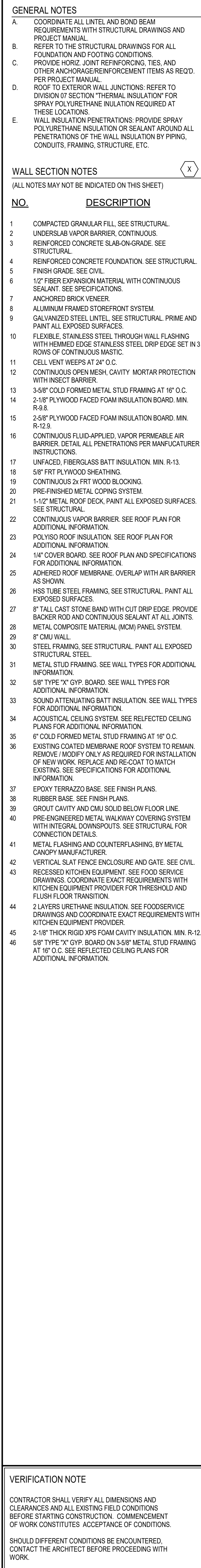
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1	ADDENDUM #1	08/21/2023

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

UNIT A - BUILDING ELEVATIONS

A3.01



A5.02

CARMEL CLAY SCHOOLS

17-848-0966 WWW.FHAI.COM

50 E. NEW YORK ST. SUITE 300, INDIANAPOLIS, IN 46204



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PROJECT NUMBER: 221165.01
PROJECT ISSUE DATE: 08/31/2023

WALL SECTIONS

A5.03

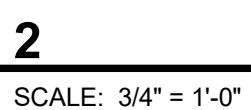
A.	COORDINATE ALL LINTEL AND BOND BEAM REQUIREMENTS WITH STRUCTURAL DRAWINGS AND PROJECT MANUAL.
B.	REFER TO THE STRUCTURAL DRAWINGS FOR FOUNDATION AND FOOTING CONDITIONS.
C.	PROVIDE HORIZ. JOINT REINFORCING TIES, AND OTHER ANCHOR/REINFORCEMENT ITEMS AS REQ'D. PER PROJECT MANUAL.
D.	ROOF TO EXTERIOR WALL JUNCTIONS: REFER TO DIVISION 07 SECTION "THERMAL INSULATION" FOR SPRAY POLYURETHANE INSULATION REQUIRED AT THIS LOCATION.
E.	WALL INSULATION PENETRATIONS: PROVIDE SPRAY POLYURETHANE INSULATION OR SEALANT AROUND ALL PENETRATIONS OF THE WALL INSULATION BY PIPING, CONDUITS, FRAMING, STRUCTURE, ETC.

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

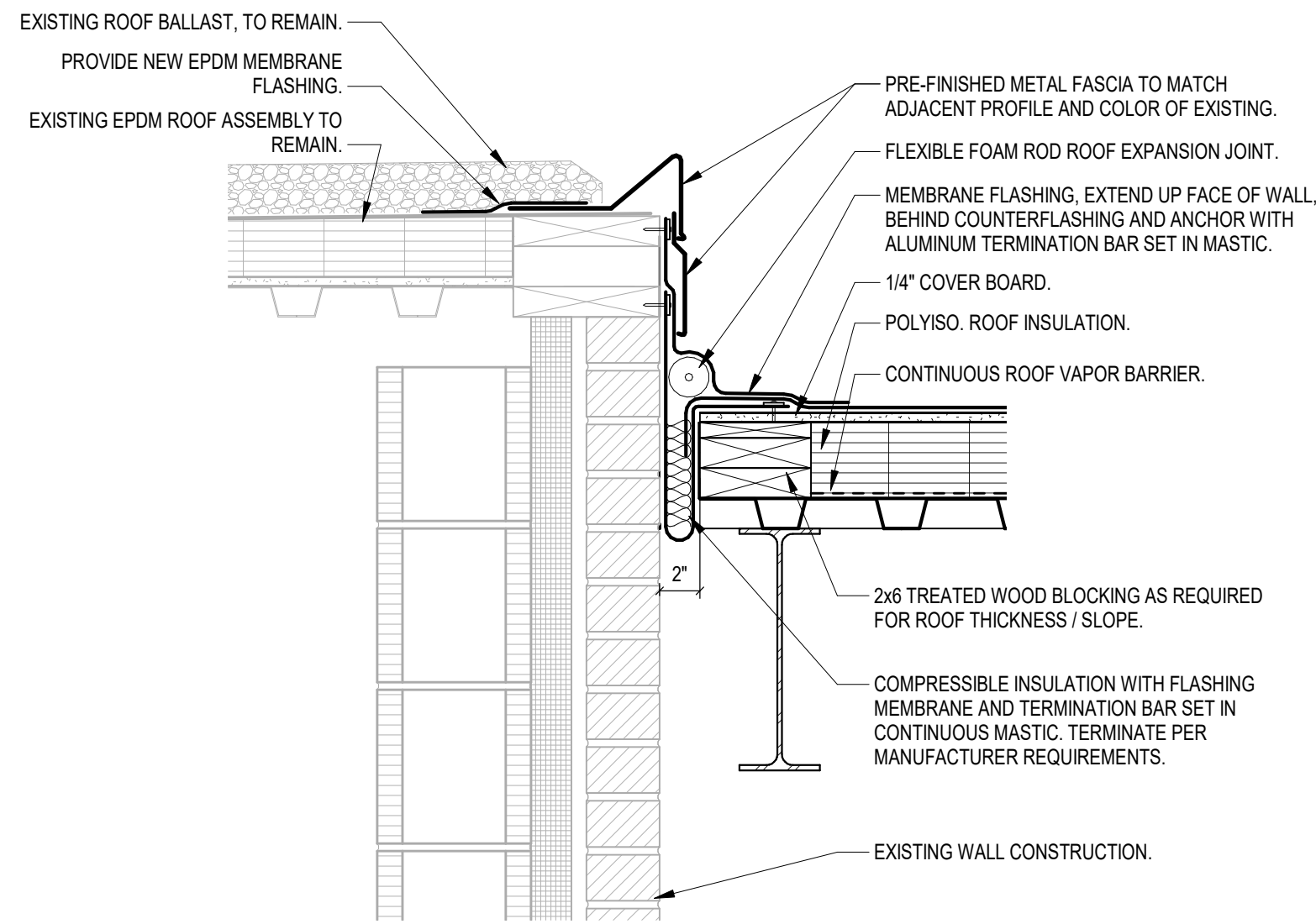
NO.	DESCRIPTION
1	COMPACTED GRANULAR FILL, SEE STRUCTURAL.
2	UNDERSLAB VAPOUR BARRIER, CONTINUOUS.
3	REINFORCED CONCRETE SLAB-ON-GRADE, SEE STRUCTURAL.
4	REINFORCED CONCRETE FOUNDATION, SEE STRUCTURAL.
5	FINISH GRADE, SEE CIVIL.
6	12" X 24" INSULATION MATERIAL WITH CONTINUOUS SEALANT, SEE SPECIFICATIONS.
7	ANCHORED BRICK VENEER.
8	ALUMINUM FRAMED STOREFRONT SYSTEM.
9	GALVANIZED STEEL LINTES, SEE STRUCTURAL, PRIME AND PAINT ALL EXPOSED SURFACES.
10	FLEXIBLE, STAINLESS STEEL THROUGH WALL FLASHING WITH HEIMED EDGE STAINLESS STEEL, DROP EDGE SET IN 3" RIGID POLYURETHANE MASTIC.
11	CELL VENTURES AT 24" O.C.
12	CONTINUOUS OPEN MESH, CAVITY MORTAR PROTECT WITH INSULATION.
13	3/8" O.D FORMED METAL STEEL FRAMING AT 16" O.C.
14	2" 18" PLYWOOD FACED FOM INSULATION BOARD, MIN. R-8.
15	2" 18" PLYWOOD FACED FOM INSULATION BOARD, MIN. R-12.
16	CONTINUOUS FLUID-APPLIED, VAPOR PERMEABLE AIR BARRIER, DETAIL ALL PENETRATIONS PER MANUFACTURER INSTRUCTIONS.
17	UNFACED, FIBERGLASS BATT INSULATION, MIN. R-13.
18	5/8" FRT PLYWOOD SHEATHING.
19	CONTINUOUS 2x FRT WOOD BLOCKING.
20	PRE-FABRICATED METAL CORING SYSTEM.
21	1/2" METAL PLYWOOD DECK, PAINT ALL EXPOSED SURFACES, SEE STRUCTURAL.
22	CONTINUOUS VAPOUR BARRIER, SEE RFO PLAN FOR ADDITIONAL INFORMATION.
23	1/4" COVER BOARD, SEE RFO PLAN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
24	ADHERED ROOF MEMBRANE, OVERLAP WITH AIR BARRIER AS SHOWN.
25	HSS 12" X 12" METAL FRAMING, SEE STRUCTURAL, PAINT ALL EXPOSED SURFACES.
26	8" TALL CAST STONE BOUND WITH CLT Drip EDGE, PROVIDE BACKER ROD AND CONTINUOUS SEALANT AT ALL JOINTS.
27	METAL COMPOSITE MATERIAL (MCM) PANEL SYSTEM.
28	CMU WALL.
29	STEEL FRAMING, SEE STRUCTURAL, PAINT ALL EXPOSED STRUCTURAL STEEL.
30	METAL FRAMING, SEE WALL TYPES FOR ADDITIONAL INFORMATION.
31	5/8" TYPE "C" GYP. BOARD, SEE WALL TYPES FOR ADDITIONAL INFORMATION.
32	1" MIN. QUANTAB-BATT INSULATION, SEE WALL TYPES FOR ADDITIONAL INFORMATION.
33	ACOUSTICAL CEILING SYSTEM, SEE REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.
34	3/8" O.D FORMED METAL STEEL FRAMING AT 16" O.C.
35	EXISTING COAT MEMBRANE ROOF SYSTEM TO REMAIN, REMOVE / MODIFY ON AS REQUIRED FOR INSTALLATION NEW ROOF, REPLACE EXISTING COAT TO MATCH EXISTING, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
36	EXPOSED AGGREGATE BASE, SEE FINISH PLANS.
37	EXPOSED AGGREGATE BASE, SEE FINISH PLANS.
38	RUBBER BASE, SEE FINISH PLANS.
39	GROUT CAVITY AND CMU SOLID BELOW FLOOR LINE.
40	PRE-ENGINEERED METAL WALKWAY COVERING SYSTEM WITH INTEGRAL DOWNSPOUTS, SEE STRUCTURAL FOR CRAN DETAILS.
41	METAL FLASHING AND COUNTERFLASHING, BY METAL CANOPY MANUFACTURER.
42	EXPOSED CONCRETE ENCLOSURE AND GATE, SEE CIVIL.
43	RECESSED KITCHEN EQUIPMENT, SEE FOOD SERVICE DRAWINGS, COORDINATE EXIST REQUIREMENTS WITH KITCHEN EQUIPMENT PROVIDER FOR THRESHOLD AND FLUSH TRANSITION.
44	2 LAYERS URETHANE INSULATION, SEE FOODSERVICE DRAWINGS AND COORDINATE EXIST REQUIREMENTS WITH KITCHEN EQUIPMENT PROVIDER.
45	2" THICK RIGID XPS FOAM CAVITY INSULATION, MIN. R-12.
46	5/8" TYPE "C" GYP. BOARD ON 3/8" METAL STEEL FRAMING AT 16" O.C., SEE REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

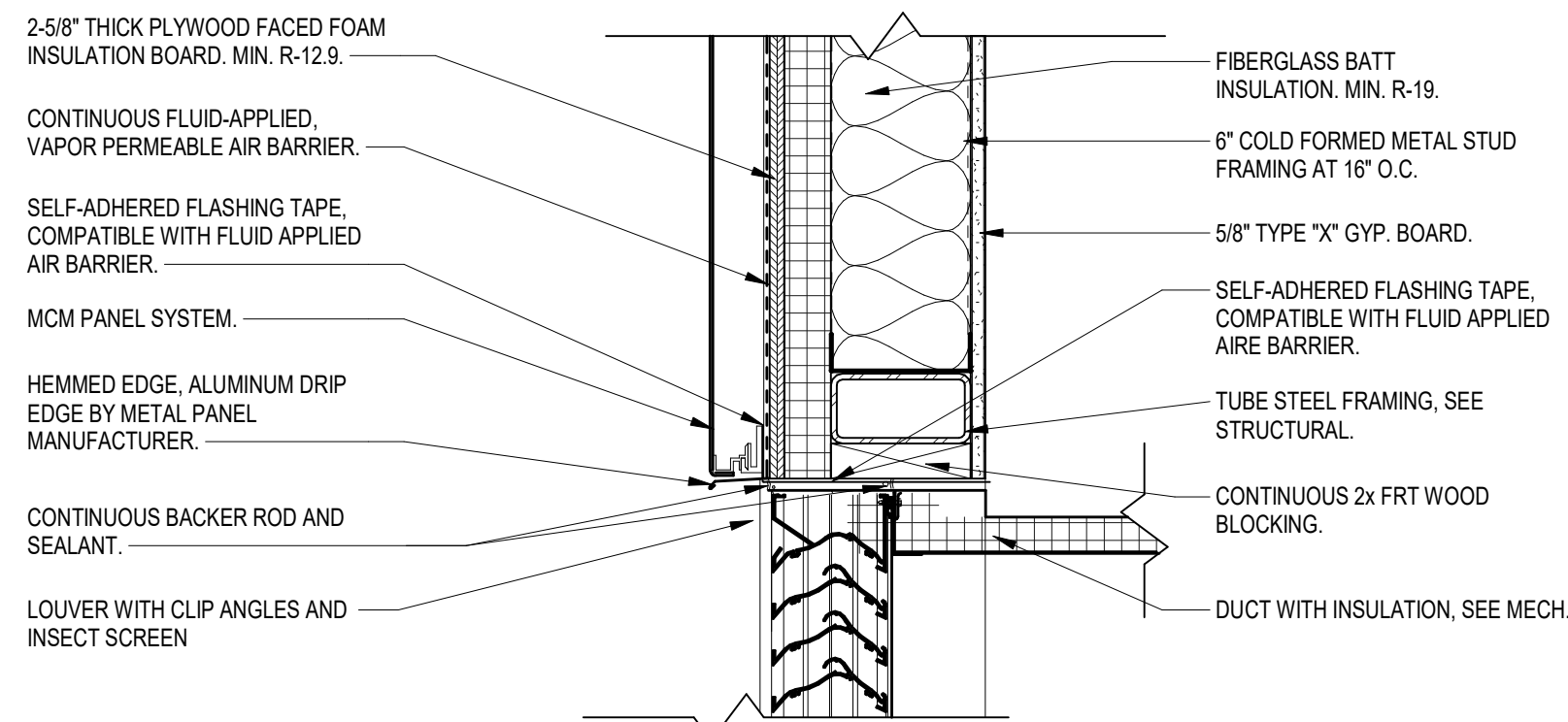


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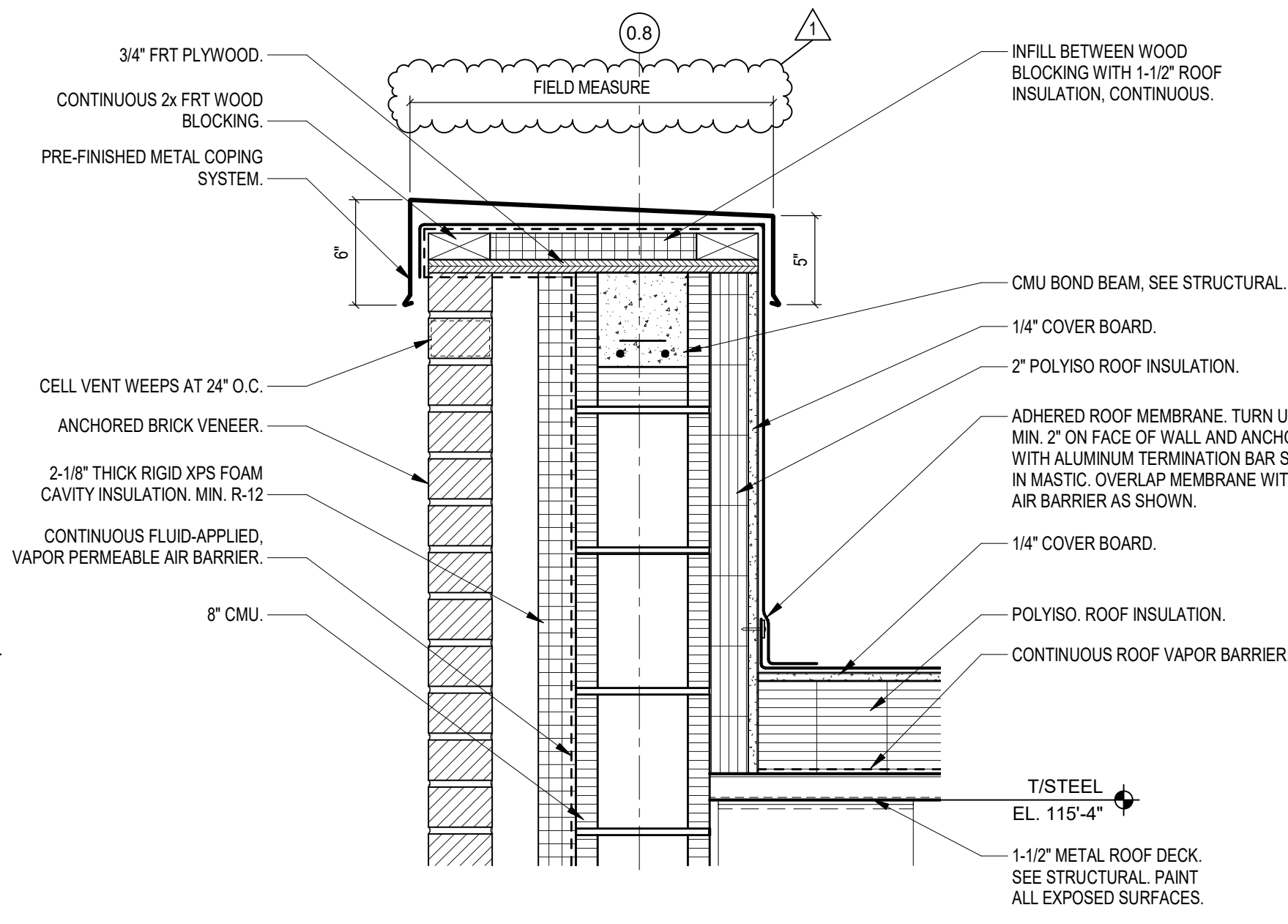
13 SECTION DETAIL

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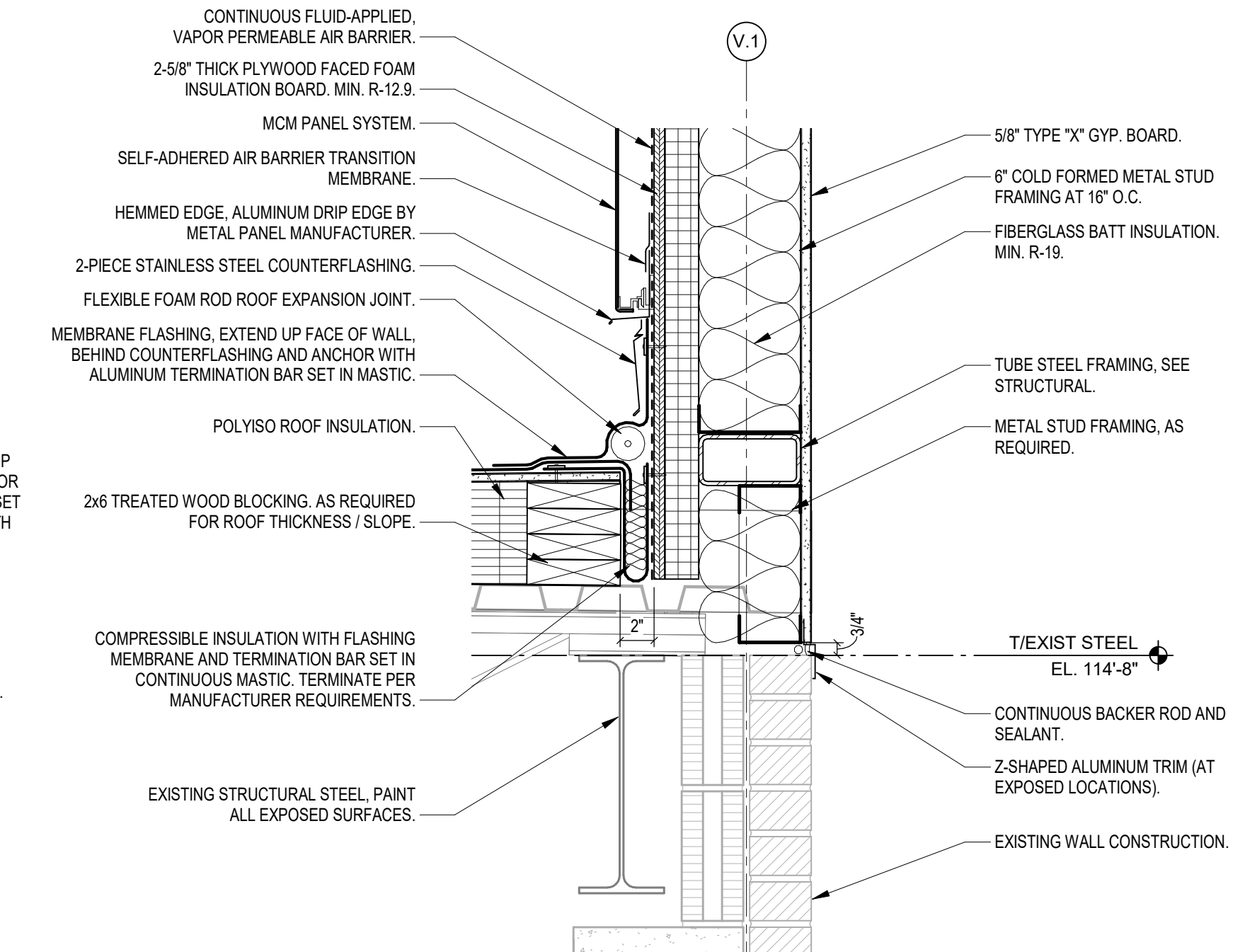
9 SECTION DETAIL

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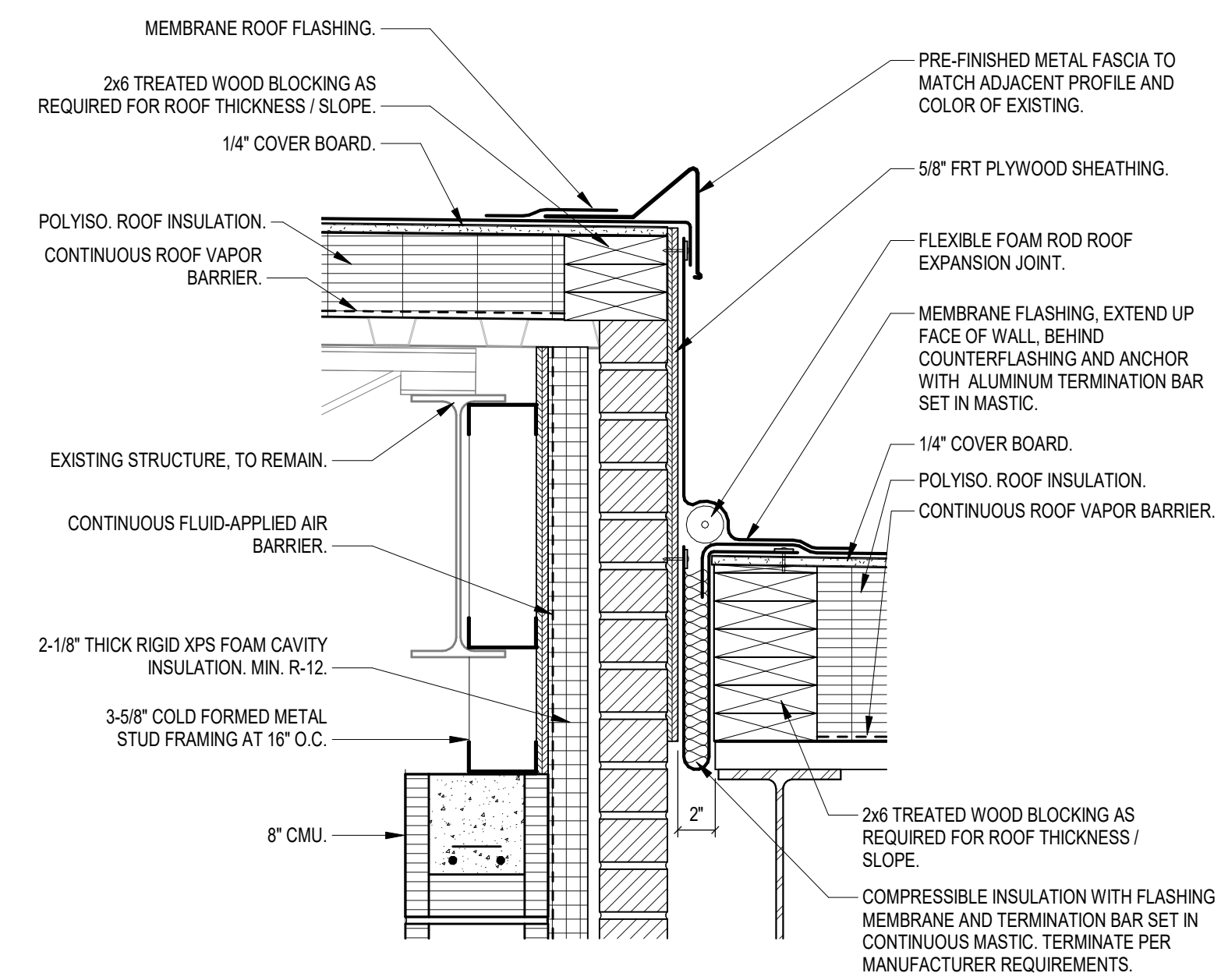
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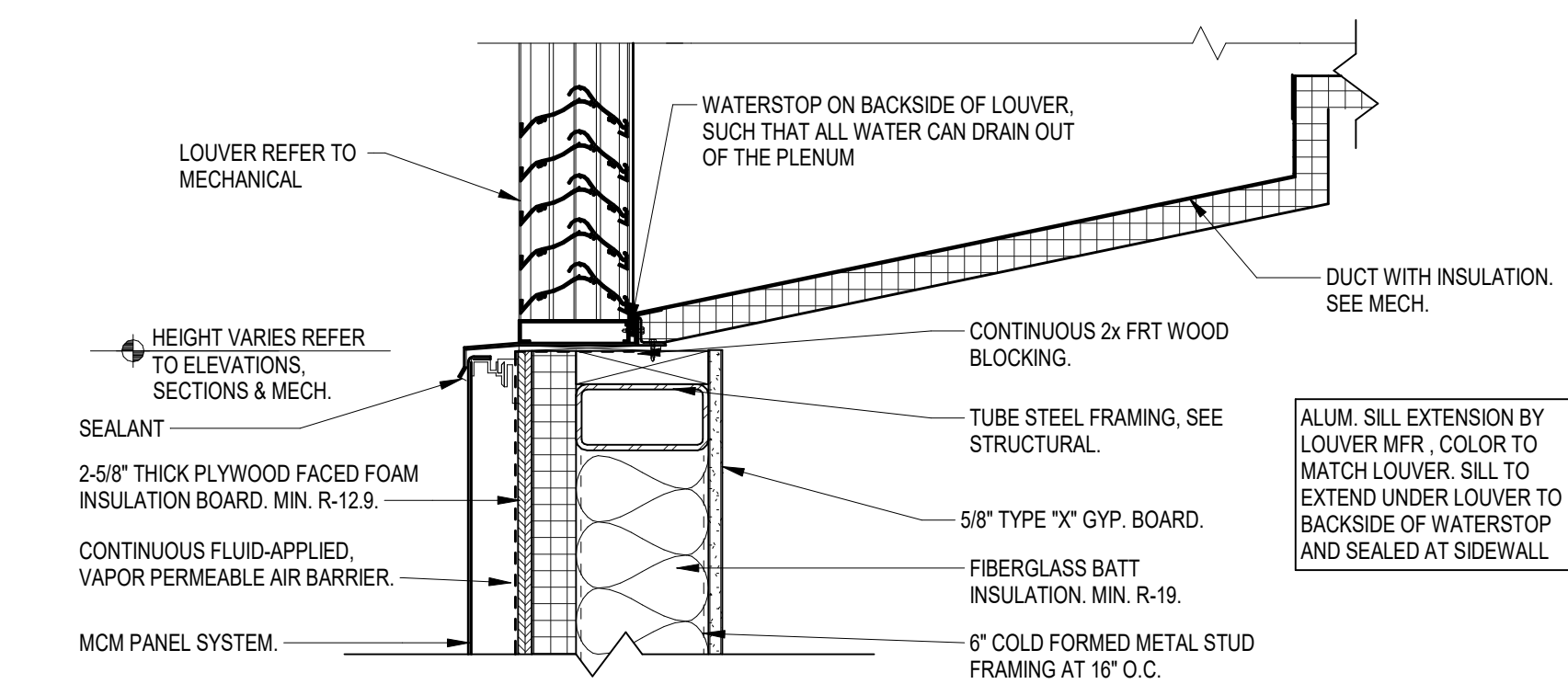
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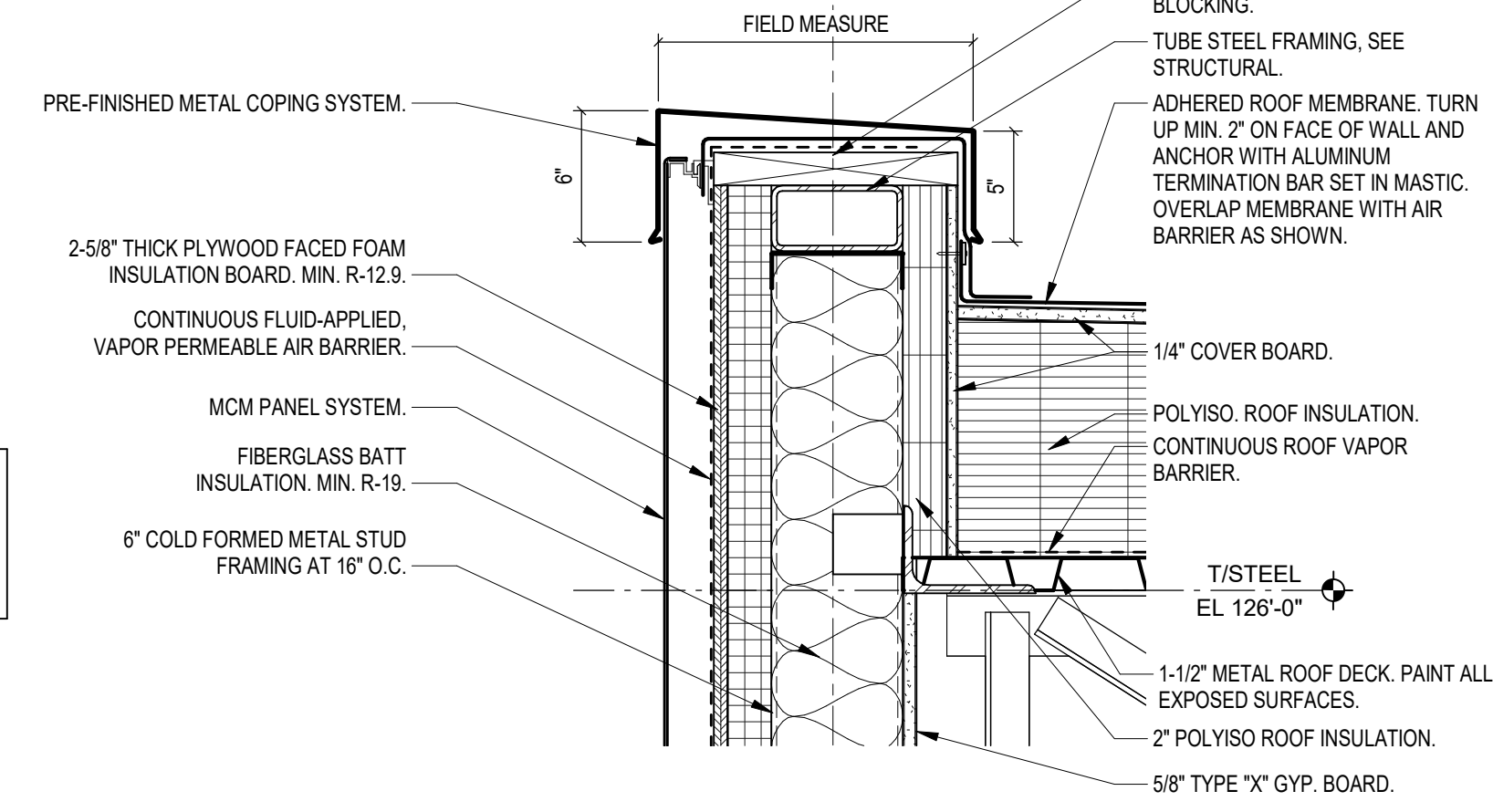
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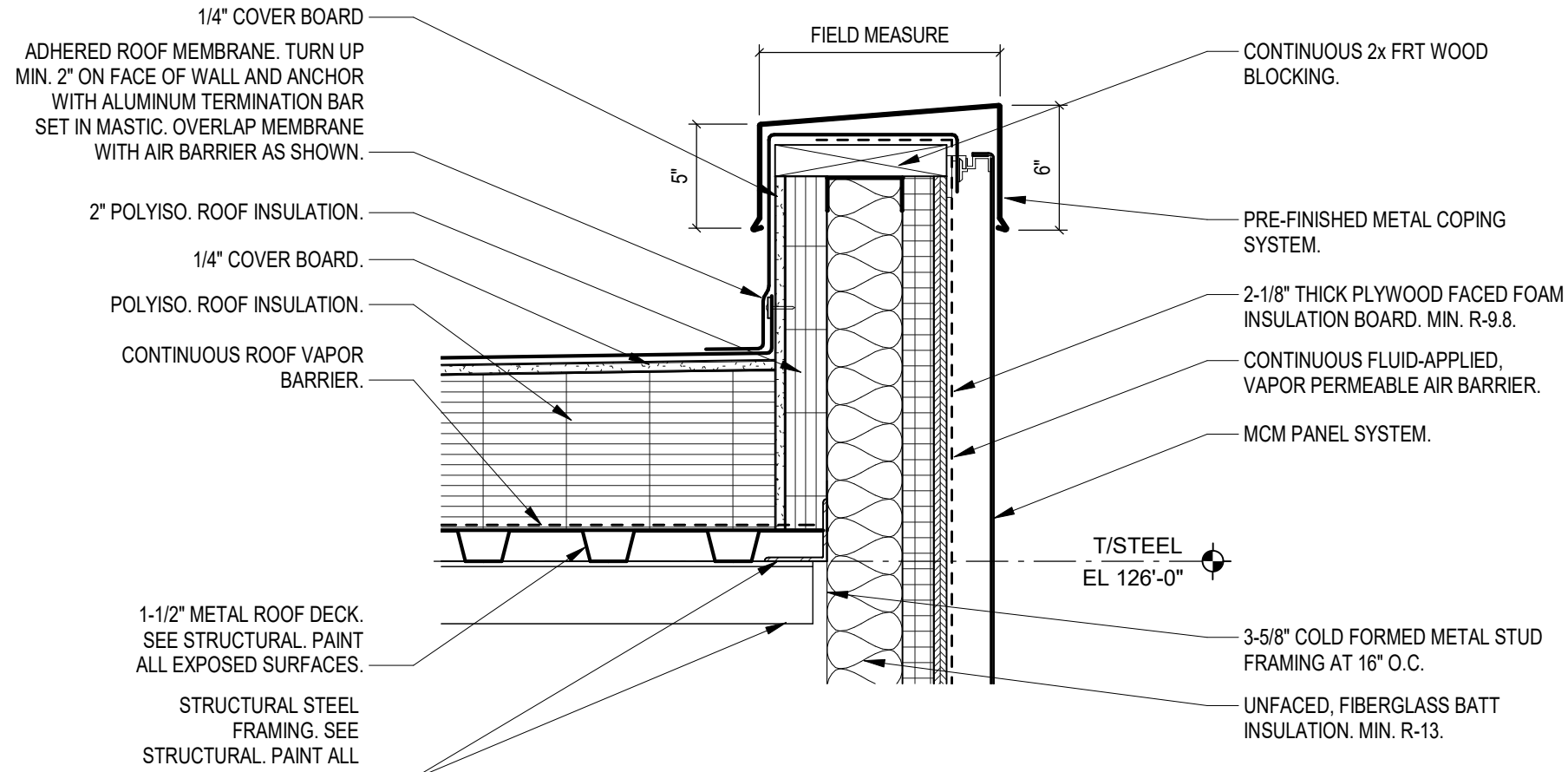
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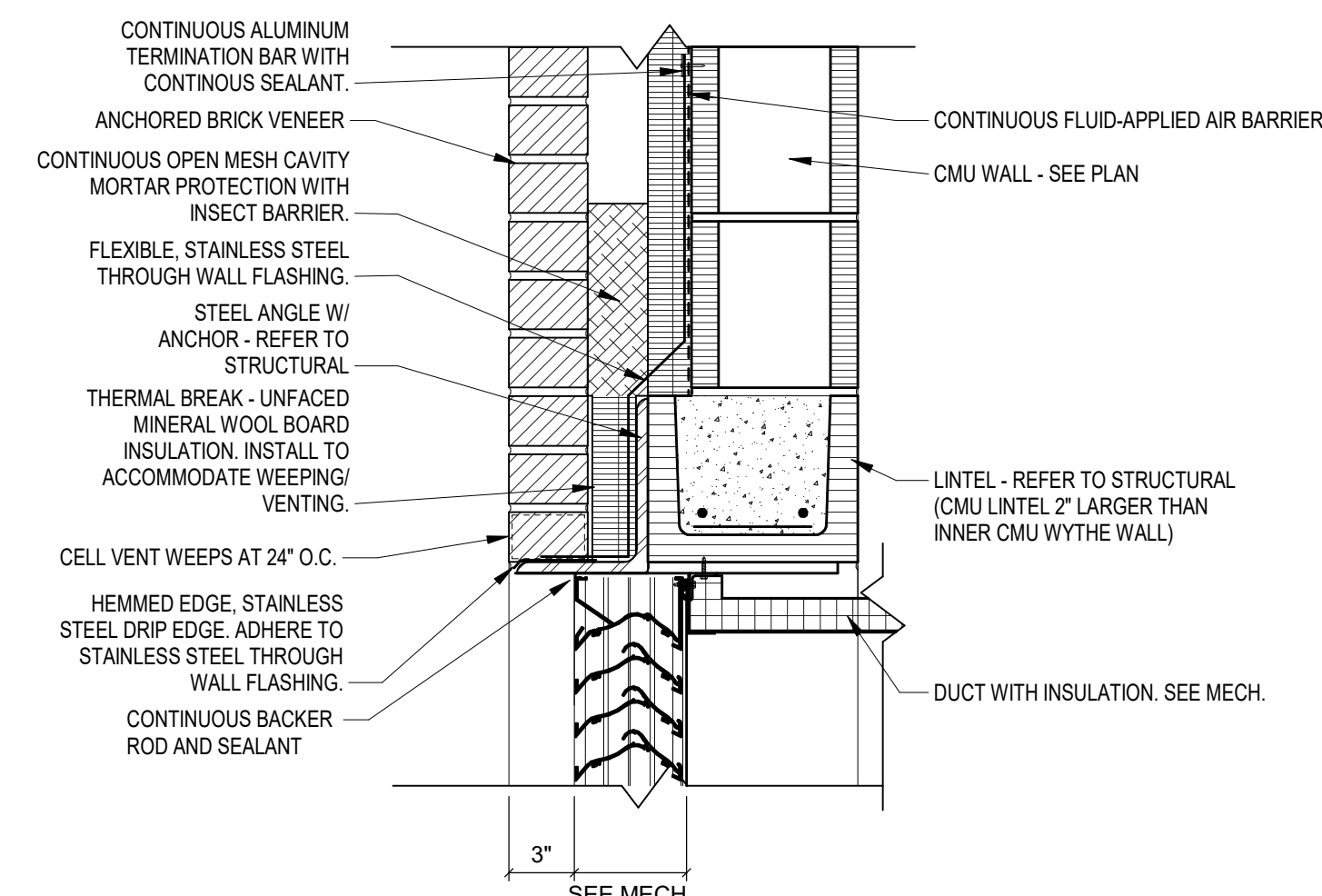
6 SECTION DETAIL

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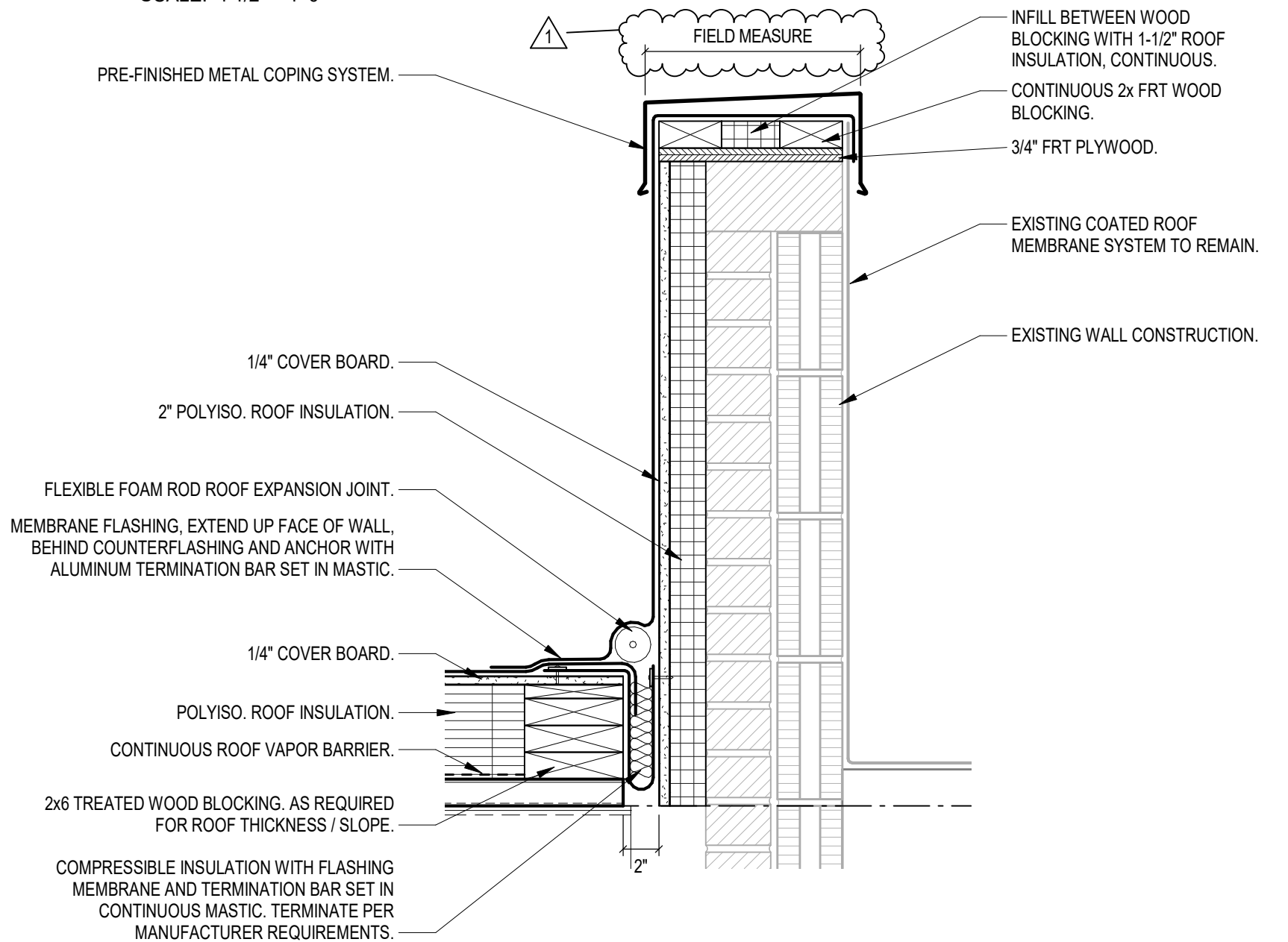
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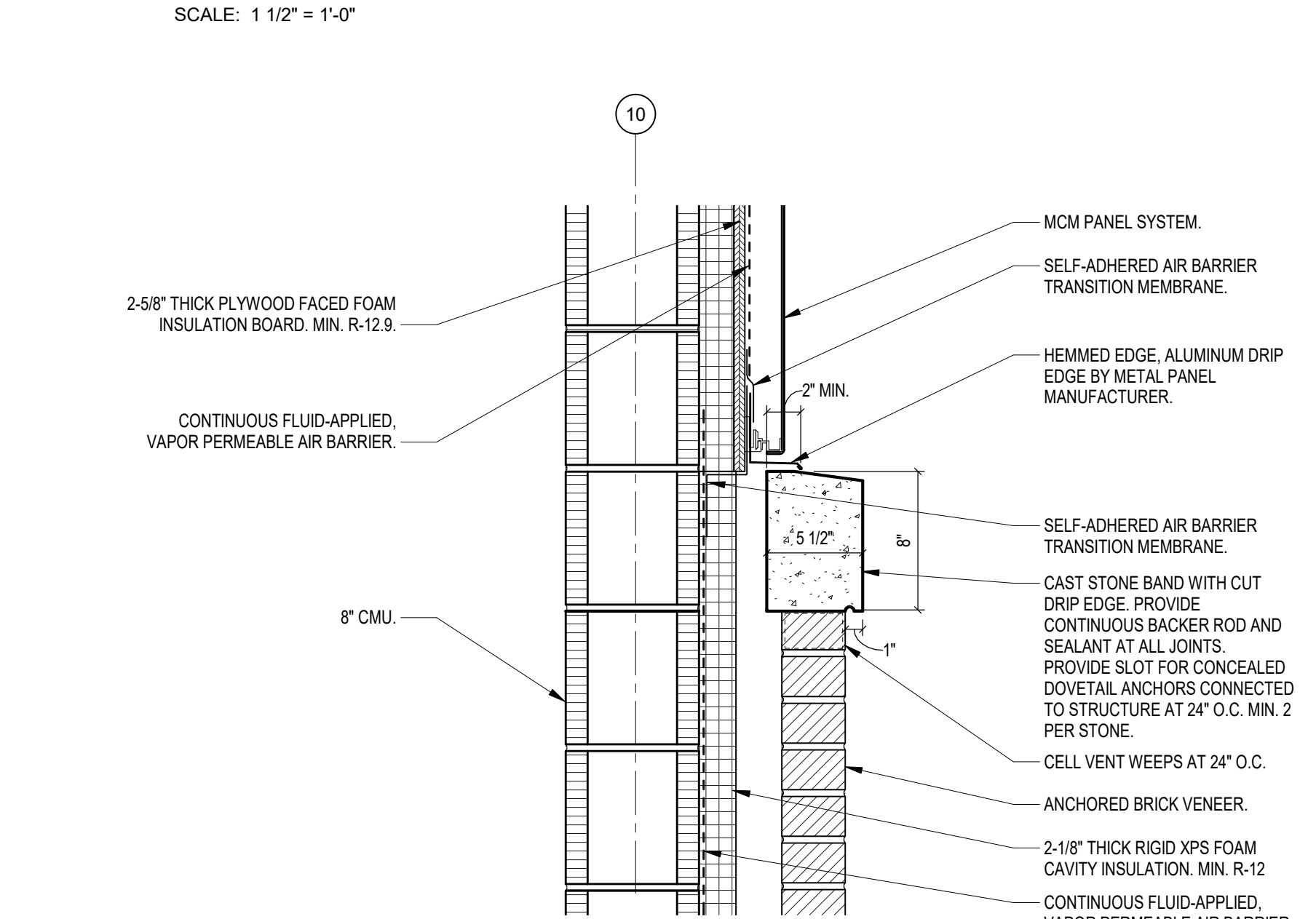
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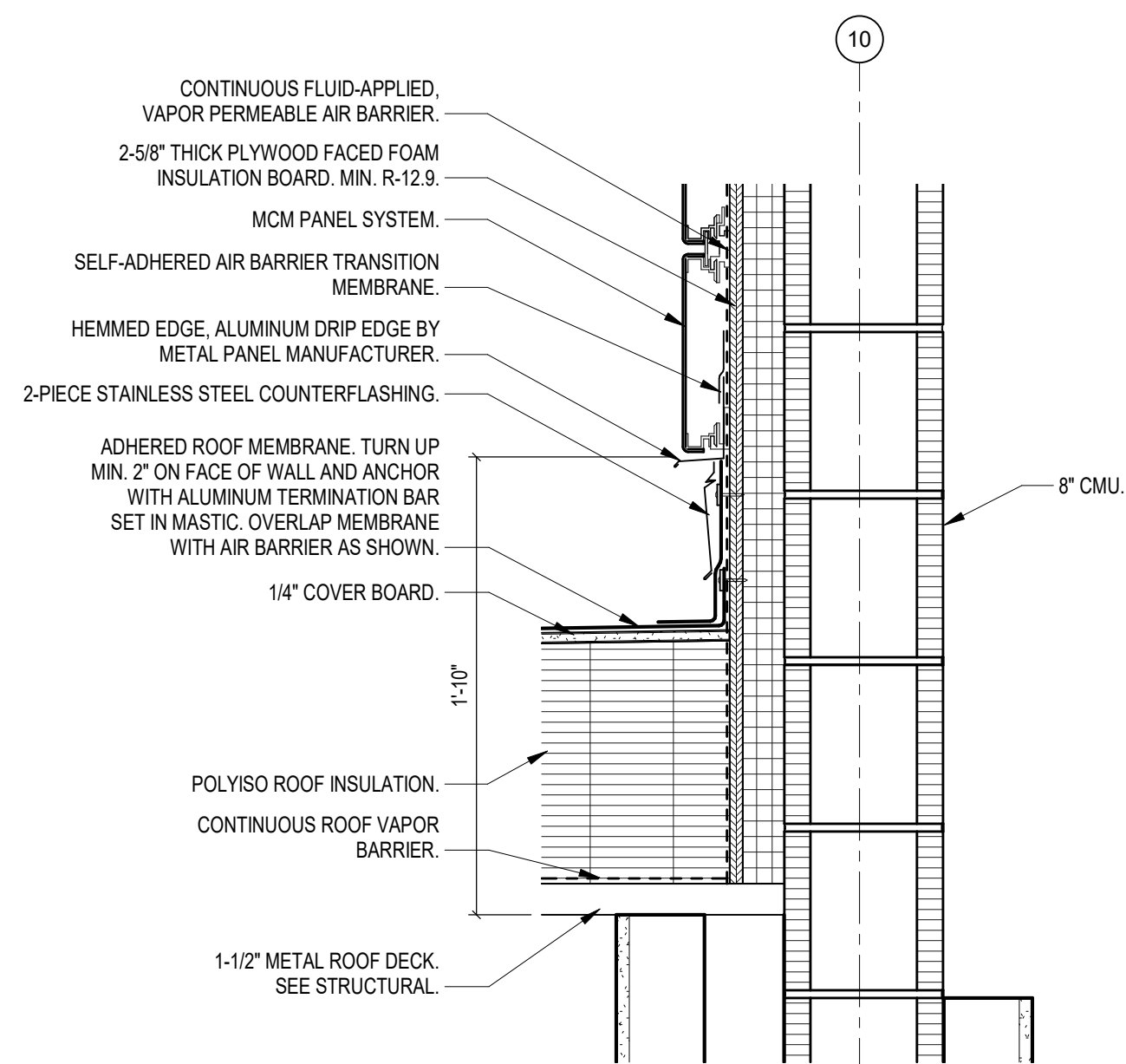
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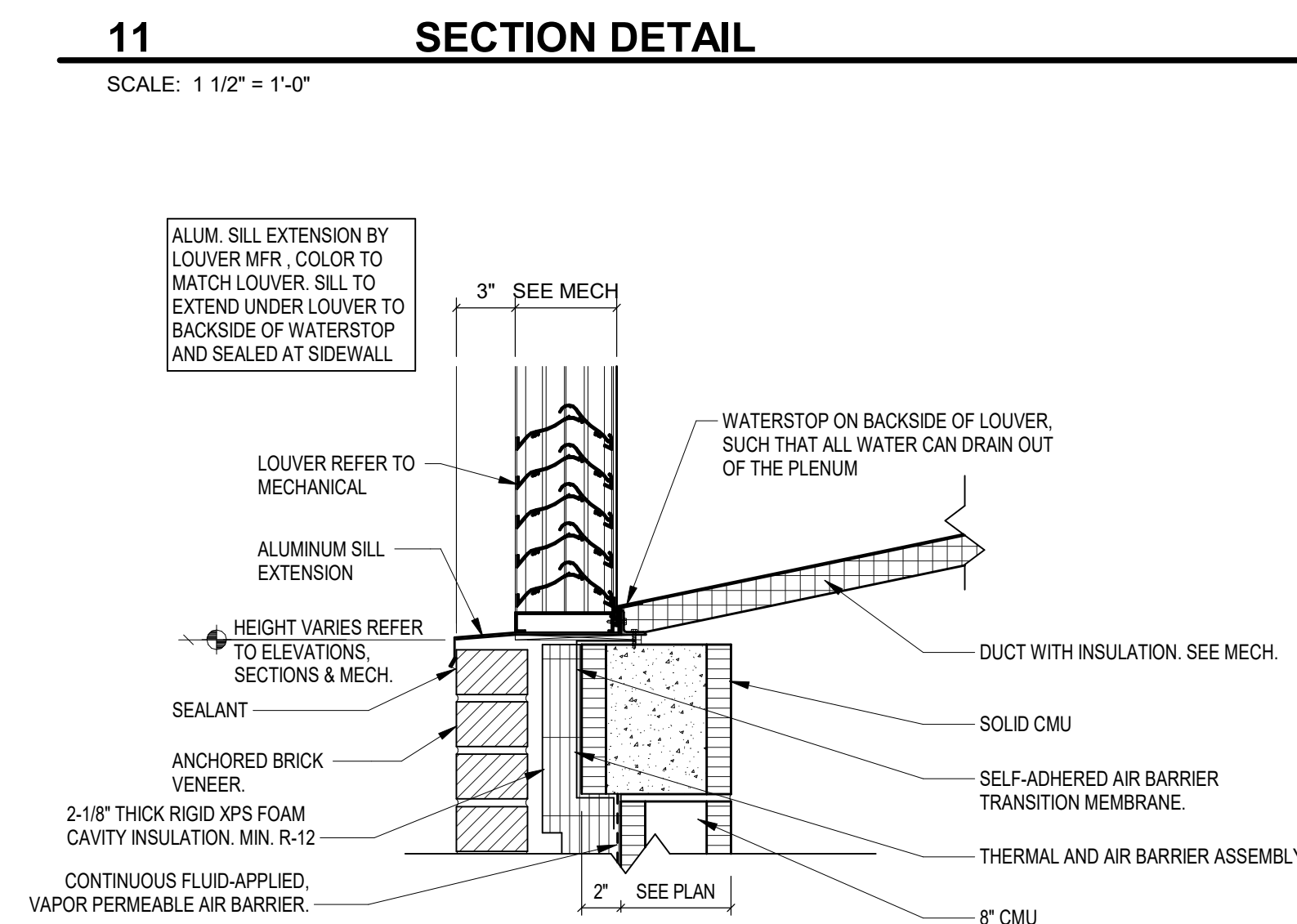
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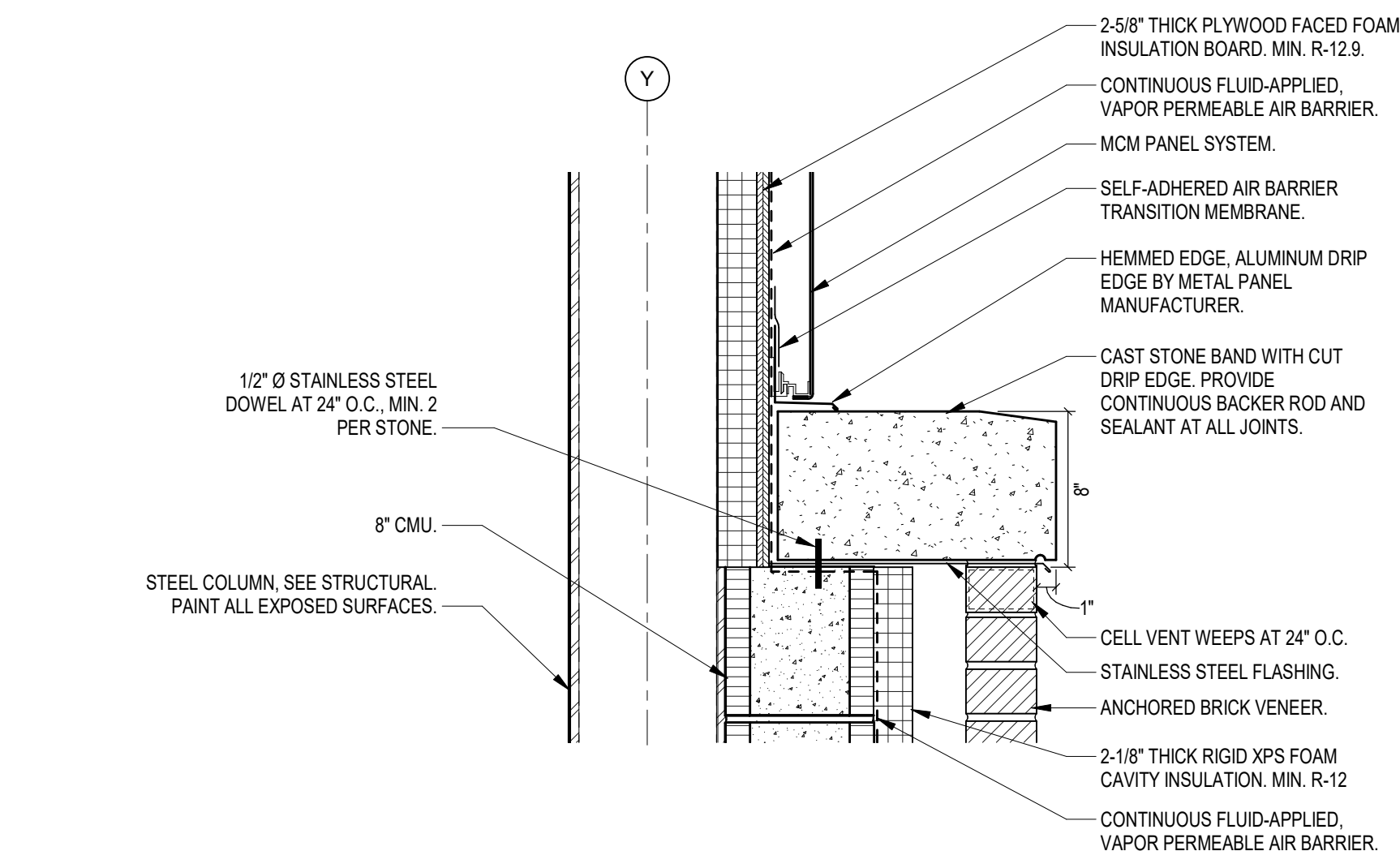
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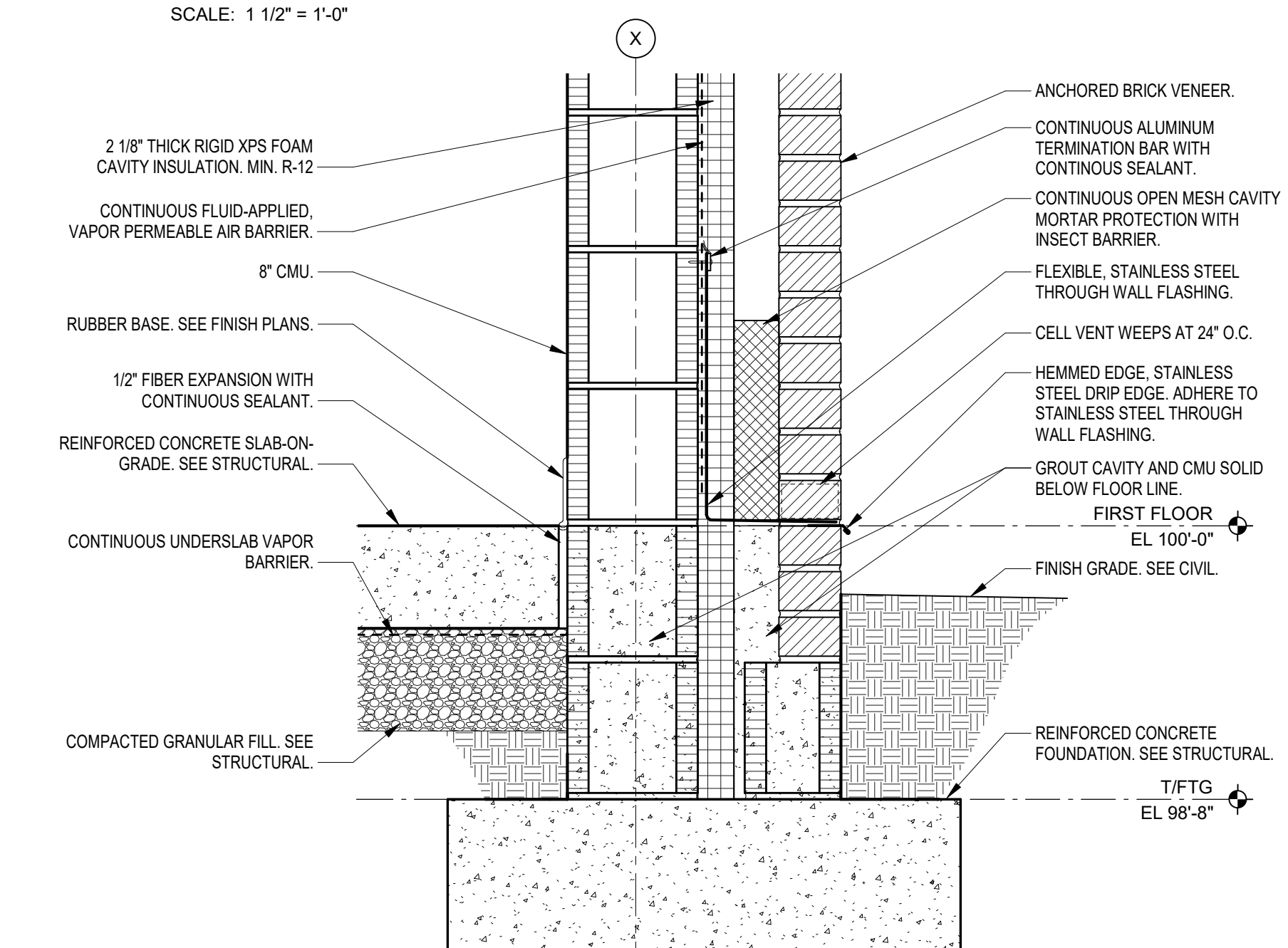
12 SECTION DETAIL

SCALE: 1 1/2" = 1'-0"



8 SECTION DETAIL

SCALE: 1 1/2" = 1'-0"



1 SECTION DETAIL

SCALE: 1 1/2" = 1'-0"

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CARMEL HIGH SCHOOL POLYTECHNIC ADDITION AND RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



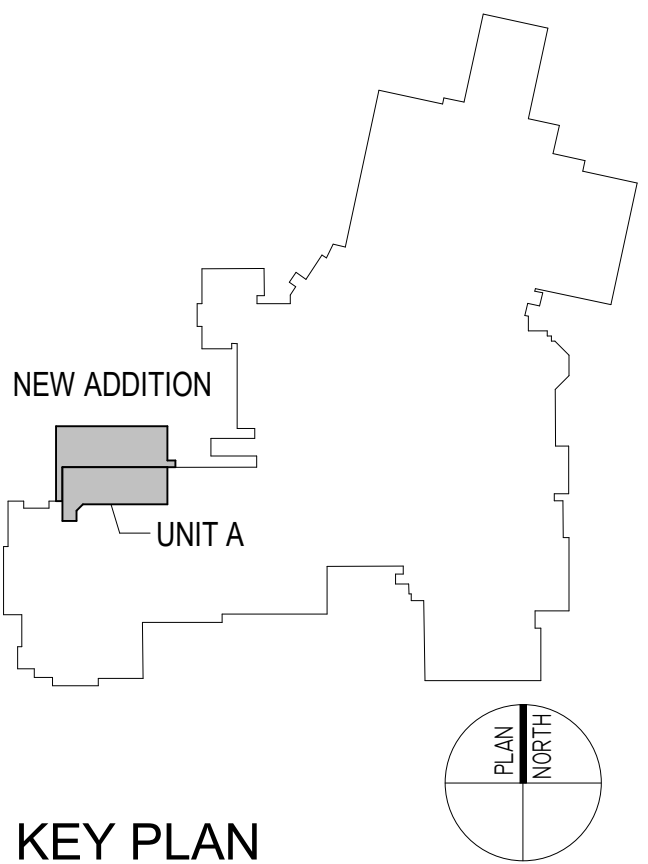
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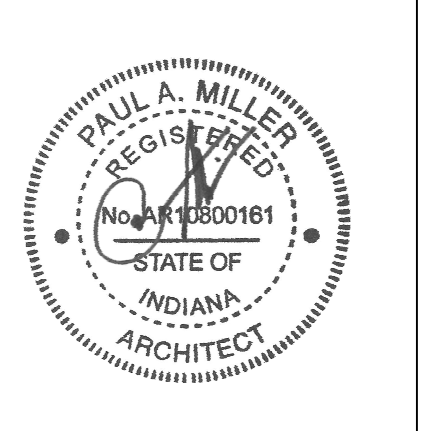
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KEY PLAN

100% CONSTRUCTION DOCUMENTS



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PROJECT NUMBER: 221165.01

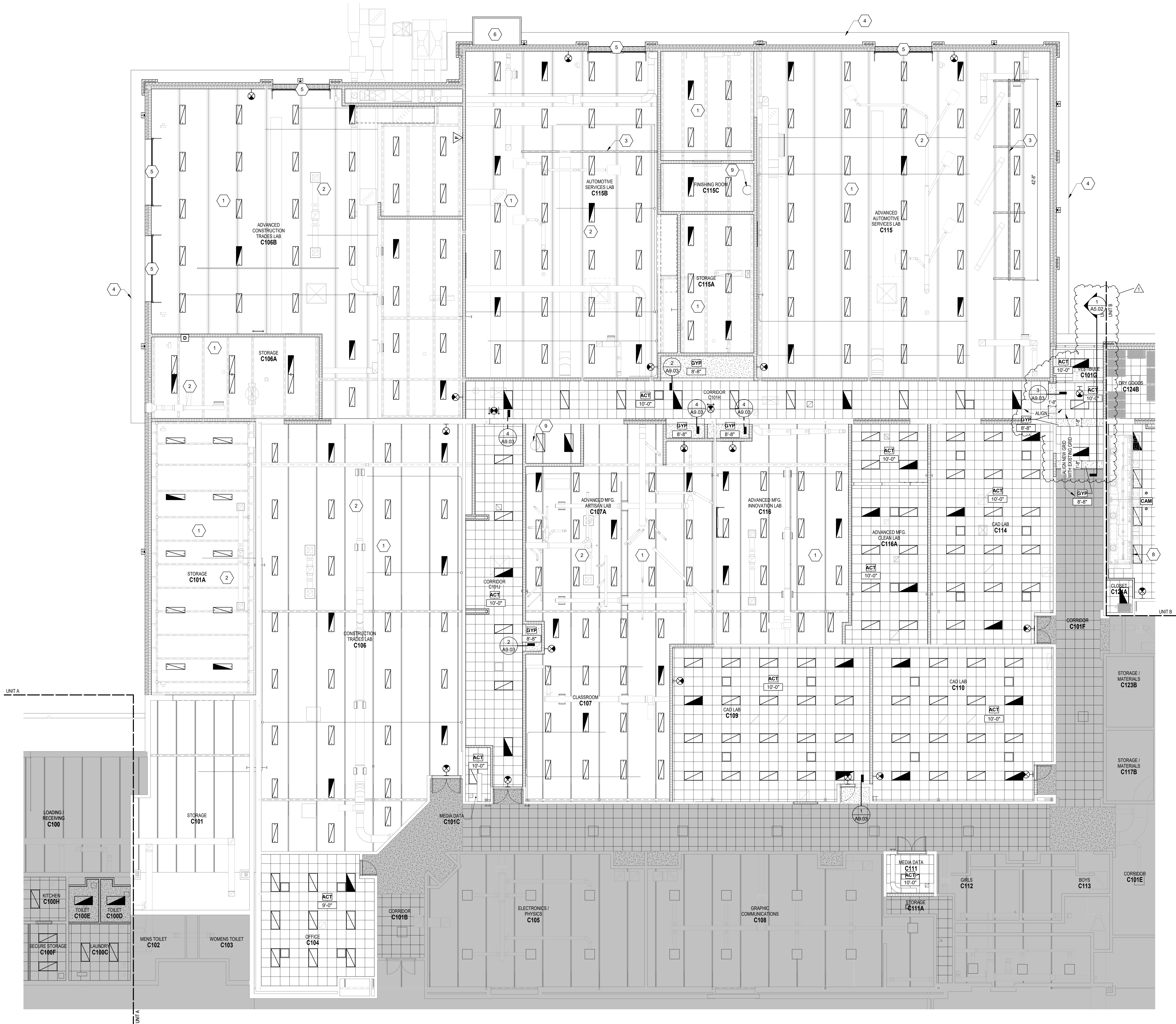
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

SECTION DETAILS

A5.05

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UNIT A - FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- A. PROVIDE REVEAL DRYWALL TRIM AT ALL LOCATIONS WHERE GYPSUM WALL BOARD (GWB) ABUTS A DISSIMILAR MATERIAL. TYPICAL UNLESS NOTED OTHERWISE. REFER TO DETAIL 77A9.1.
B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK.

REFLECTED CEILING PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO. DESCRIPTION

1. PAINT EXPOSED STRUCTURE ABOVE. REFER TO FINISH PLANS AND/OR INTERIOR ELEVATIONS FOR DETAILS.
2. PAINT ALL EXPOSED DUCT, PIPING AND CONDUIT.
3. STEEL BEAM FOR OVERHEAD CHAIN HOIST. SEE EQUIPMENT PLANS / SCHEDULE FOR ADDITIONAL INFORMATION.
4. METAL PANEL SOFFIT. SEE WALL SECTIONS FOR ADDITIONAL INFORMATION. ALIGN SOFFIT JOINTS WITH VERTICAL WALL JOINTS. SEE BUILDING ELEVATIONS.
5. OVERHEAD DOOR.
6. PRE-ENGINEERED METAL WALKWAY COVERING SYSTEM WITH INTEGRAL DOWNSPOUTS.
7. 5/8" GYP. BOARD CEILING ON 3/8" METAL STUD FRAMING AT 16" O.C. W/ SOUND ATTENUATING BATT INSULATION BETWEEN FRAMING.
8. KITCHEN HOOD. SEE FOOD SERVICE DRAWINGS.
9. PAINT BOOTH EXHAUST. UP THROUGH ROOF. SEE EQUIPMENT PLANS AND SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION, DIMENSIONS AND OPENINGS BETWEEN ALL TRADES.
10. SOUND DIFFUSING PANELS IN ACOUSTICAL GRID SYSTEM. ACT 3. SEE FINISH PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. SOUND ABSORBING PANEL IN GRID SYSTEM AT 94" AFF TO BOTTOM OF GRID. ACT 6. SEE FINISH PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. SOUND ABSORBENT PAD INSULATION LAID ABOVE CEILING.

REFLECTED CEILING PLAN LEGEND

10'-4" INDICATES ELEVATION HEIGHT

9'-0" INDICATES CEILING HEIGHT

A 9'-0" INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"

LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS

LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS

LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS

CLOCK - REFER TO TECHNOLOGY DRAWINGS

MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS

MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS

CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS

MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS

RECESSED CEILING SPEAKER

MOTION DETECTOR

CEILING MOUNTED EXIT LIGHT

CEILING MOUNTED CAMERA

WIRELESS ACCESS POINT (WAP)

CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD

SOUND REINFORCEMENT SPEAKER

FIRE ALARM HEAT DETECTOR

FIRE ALARM HORN STROBE

FIRE ALARM SPEAKER STROBE

FIRE ALARM STROBE

FIRE ALARM SMOKE DETECTOR

OCCUPANCY SENSOR

ACOUSTICAL CEILING TILE (ACT)

ACOUSTICAL CEILING TILE (ACT)

GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.)

EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)

INTERIOR FINISH SYSTEM (I.F.S.)

METAL SOFFIT PANELS

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

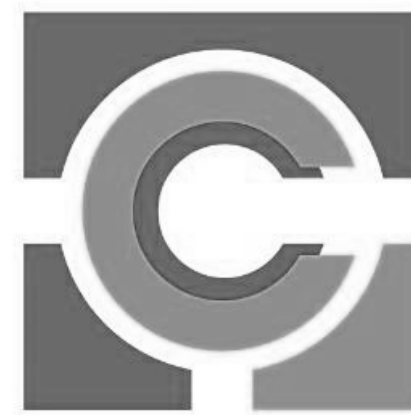
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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CARMEL CLAY SCHOOLS



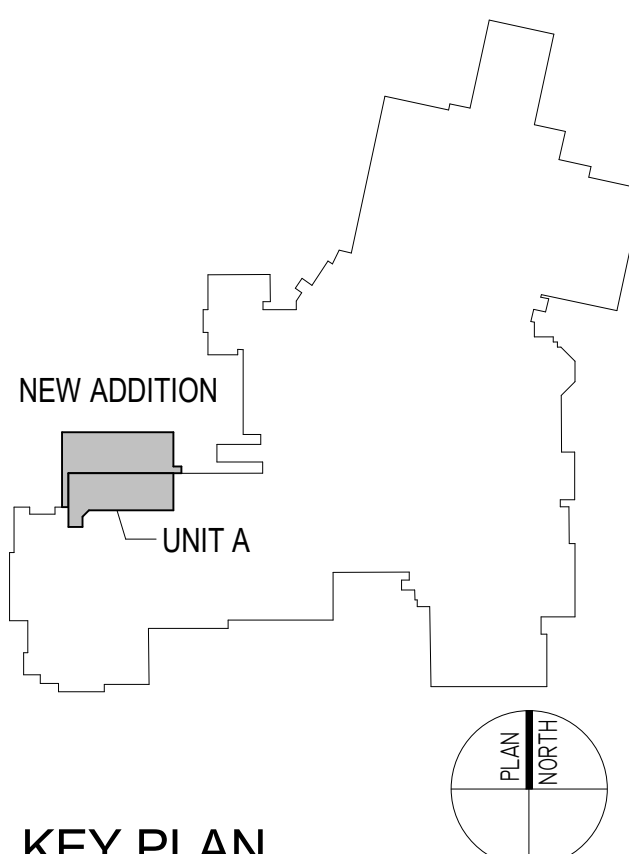
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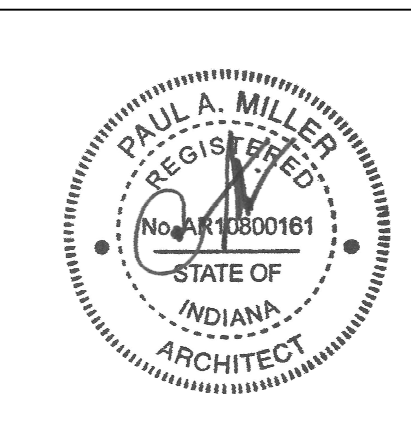
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KEY PLAN

100% CONSTRUCTION DOCUMENTS



DRAWN BY: CLP

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

UNIT A - FIRST FLOOR REFLECTED CEILING PLAN

A9.01

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

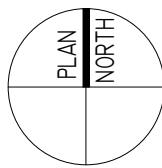
CARMEL CLAY SCHOOLS



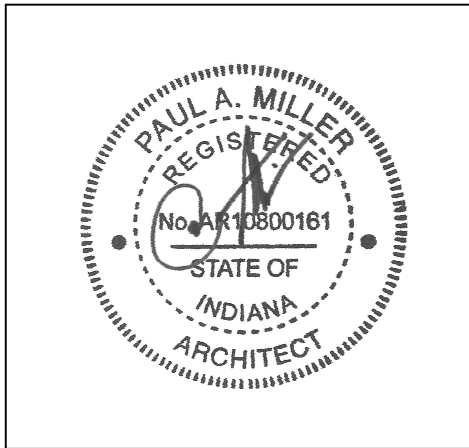
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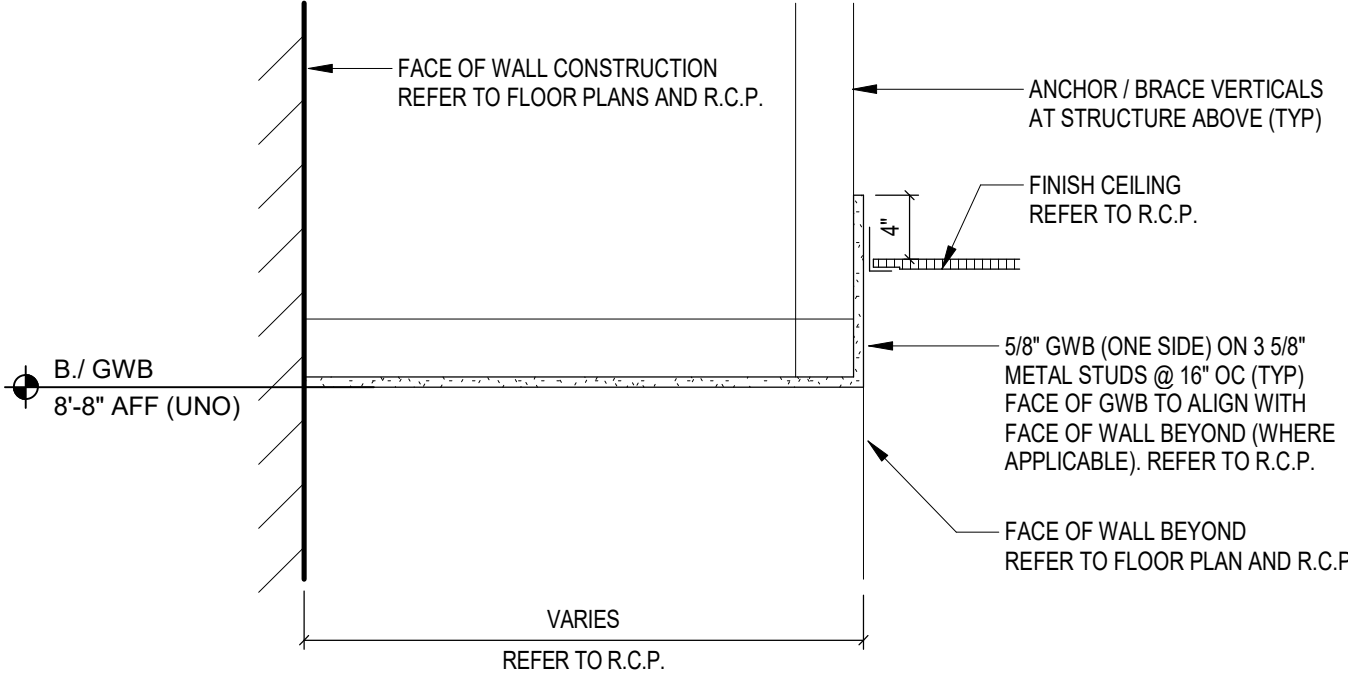


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PROJECT NUMBER: 221165.01
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

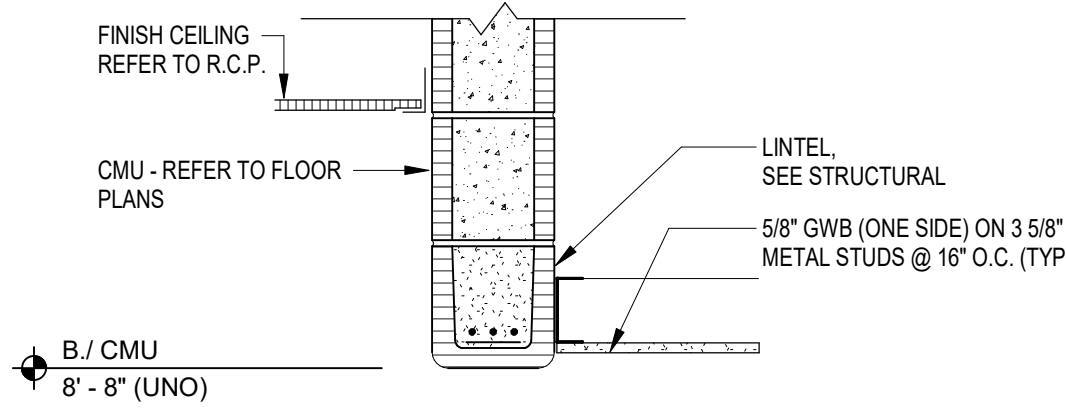
CEILING DETAILS

A9.03



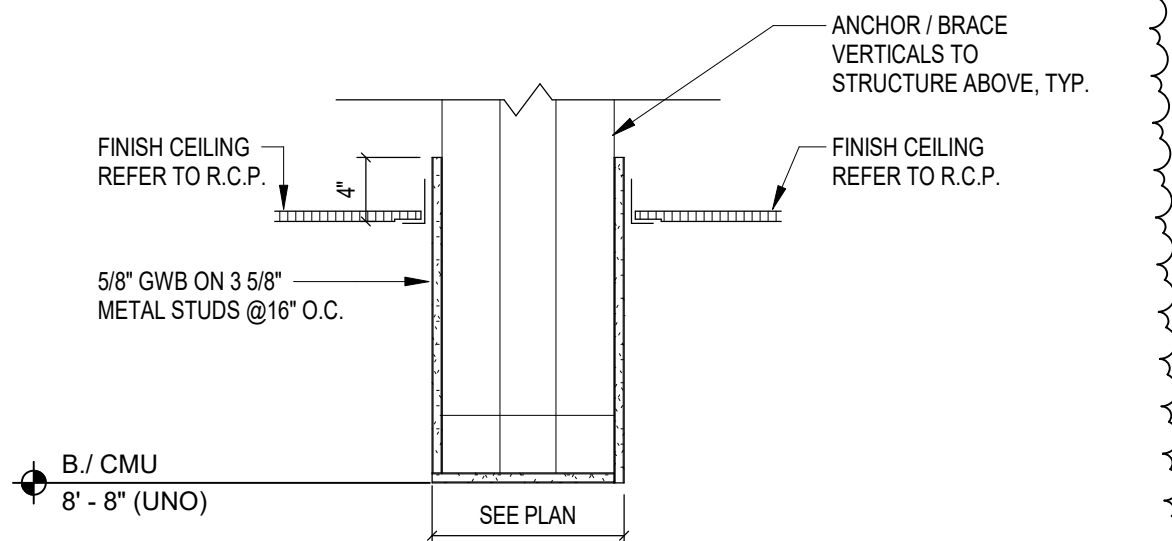
1 SECTION - BULKHEAD

SCALE: 1" = 1'-0"



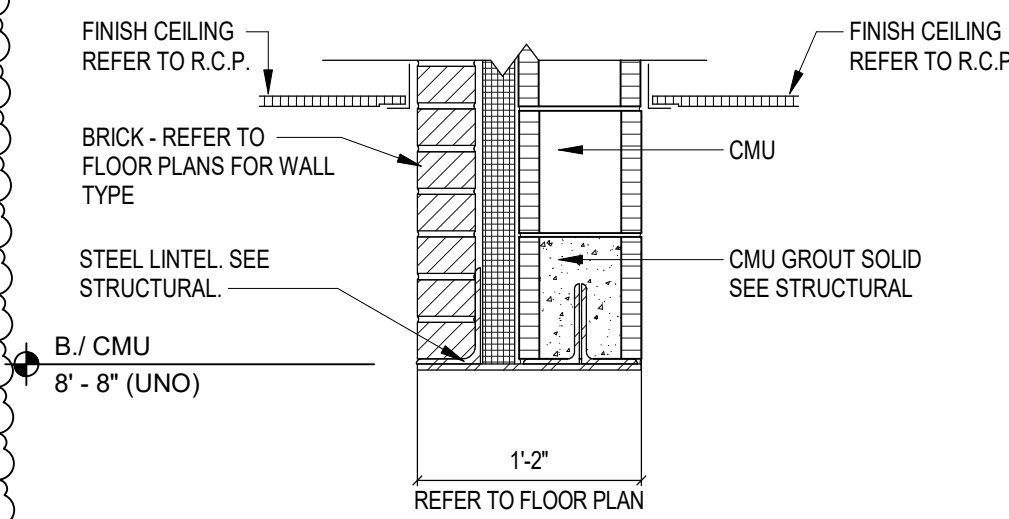
2 SECTION - BULKHEAD

SCALE: 1" = 1'-0"



3 SECTION - BULKHEAD

SCALE: 1" = 1'-0"



4 SECTION - BULKHEAD

SCALE: 1" = 1'-0"

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NEW ADDITION

UNIT A

KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: JE

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

UNIT A - FIRST FLOOR PLUMBING DEMOLITION PLAN

PD.01

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL PROVIDE CUTTING AND PATCHING OF EXISTING CONCRETE SLAB AS REQUIRED TO ACCOMMODATE INSTALLATION OF UNDERSLAB PIPING SYSTEMS. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR CEILING REMOVAL AND REPLACEMENT AS REQUIRED THROUGHOUT EXISTING AREAS TO DAMAGED TILES SHALL BE REPLACED WITH NEW MATCHING EXISTING TILES WHERE REMOVED TILES ARE DAMAGED.

UNIT A DEMO PLAN NOTES

- REMOVE EXTERIOR WALL HYDRANT AND ASSOCIATED PIPING COMPLETE. PATCH EXISTING WALL PENETRATION TO MATCH EXISTING FINISHES.
- REMOVE ACETYLENE AND OXYGEN EQUIPMENT, CYLINDER CONNECTORS AND ALL ASSOCIATED PIPING COMPLETE. PATCH WALL PENETRATION TO MATCH EXISTING FINISHES.
- REMOVE PIPING SYSTEM AND ACCESSORIES BACK TO ACTIVE MAIN OR POINT OF NEW CONNECTION.
- REMOVE PIPING BACK TO THIS POINT AND CAP.
- REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING COMPLETE. EXISTING WASTE AND WATER ROUGH-INS TO REMAIN. PREPARE ROUGH-INS FOR CONNECTION TO NEW.
- REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING COMPLETE. REMOVE HORIZONTAL WASTE FROM WASHCUP/TOILET BACK TO SANITARY DROP AND CAP. REMOVE WASTE BACK INTO WALL AND CAP. REMOVE WATER SUPPLY PIPING UP TO ABOVE CEILING. PATCH WALL TO MATCH EXISTING FINISHES.
- REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING COMPLETE. REMOVE WASTE TO BELOW SLAB AND CAP. REMOVE WATER AND VENT PIPING UP TO ABOVE CEILING.
- REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING COMPLETE. REMOVE WASTE AND WATER ROUGH-INS TO REMAIN. PREPARE ROUGH-INS FOR CONNECTION TO NEW.
- REMOVE SHOWER VALVE, HEAD AND ALL ASSOCIATED PIPING COMPLETE.
- REMOVE FLOOR DRAIN GRATE AND PLUG OUTLET. FILL DRAIN BODY WITH FLOWABLE CONCRETE TO FLUSH WITH EXISTING SLAB. PATCH SLAB TO MATCH EXISTING FINISHES.
- REMOVE COMPRESSED AIR OUTLET STATION AND ALL ASSOCIATED VALVES AND PIPING COMPLETE.
- REMOVE TRENCH DRAIN GRATE AND DRAIN BODY COMPLETE. PLUG WASTE OUTLET BELOW SLAB. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.
- REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING COMPLETE. REMOVE HORIZONTAL WASTE FROM SINK BACK TO SANITARY DROP AND CAP. REMOVE WATER SUPPLY PIPING WITHIN WALL COMPLETE. PATCH WALL TO MATCH EXISTING FINISHES.
- REMOVE STORM PIPING BACK TO DRAIN OUTLET. EXISTING DRAIN OUTLET TO REMAIN. PREPARE DRAIN OUTLET FOR CONNECTION TO NEW.
- REMOVE WASTE DOWN TO ABOVE SLAB AND CAP. REMOVE WATER AND VENT PIPING UP TO ABOVE CEILING.
- REMOVE COMPRESSED AIR HOSE REEL, AIR FILTER, LUBRICATOR AND ALL ASSOCIATED PIPING AND VALVES COMPLETE.
- REMOVE MOTOR OIL / ANTI-FREEZE DISTRIBUTION HOSE REEL AND ALL ASSOCIATED VALVES AND PIPING COMPLETE.
- REMOVE DRUM MOUNTED PUMPS, FLEX CONNECTORS AND ALL ASSOCIATED PIPING AND VALVES COMPLETE.
- REMOVE 6" STORM DOWN TO BELOW SLAB AND CAP. PATCH SLAB TO MATCH EXISTING FINISHES.
- REMOVE PIPING BACK TO THIS POINT AND PREPARE REMAINING PIPING FOR CONNECTION TO NEW.
- REMOVE 3" VENT PIPING DOWN TO BELOW SLAB AND CAP. PATCH SLAB TO MATCH EXISTING FINISHES. CAP VENT AT VENT MAIN ABOVE CEILING.
- REMOVE VENT PIPING UP TO BELOW ROOF STRUCTURE AND CAP. CAP VENT THRU ROOF AT ROOF LEVEL.
- REMOVE USED ENGINE OIL AND ANTI-FREEZE CONTAINMENT TANK AND CONCRETE PIT COMPLETE. REMOVE ASSOCIATED PIPING AND VALVES COMPLETE. PATCH WALL PENETRATION TO MATCH EXISTING FINISHES.
- REMOVE EXTERIOR CLEANOUT ASSEMBLY COMPLETE. PLUG TOP OF REMAINING PIPE. PATCH CONCRETE SLAB TO MATCH NEW FLOOR FINISHES. REFER TO INTERIOR DRAWINGS FOR FLOOR FINISH INFORMATION.
- REMOVE INTERIOR CLEANOUT ASSEMBLY COMPLETE. PLUG TOP OF REMAINING PIPE. PATCH CONCRETE SLAB TO MATCH NEW FLOOR FINISHES. REFER TO INTERIOR DRAWINGS FOR FLOOR FINISH INFORMATION.
- REMOVE EXISTING 2" VENT DOWN TO BELOW SLAB AND CAP. REMOVE VENT PIPING UP TO VENT THRU ROOF AND PREPARE REMAINING PIPING FOR CONNECTION TO NEW. EXISTING 3" VENT THRU ROOF TO REMAIN.

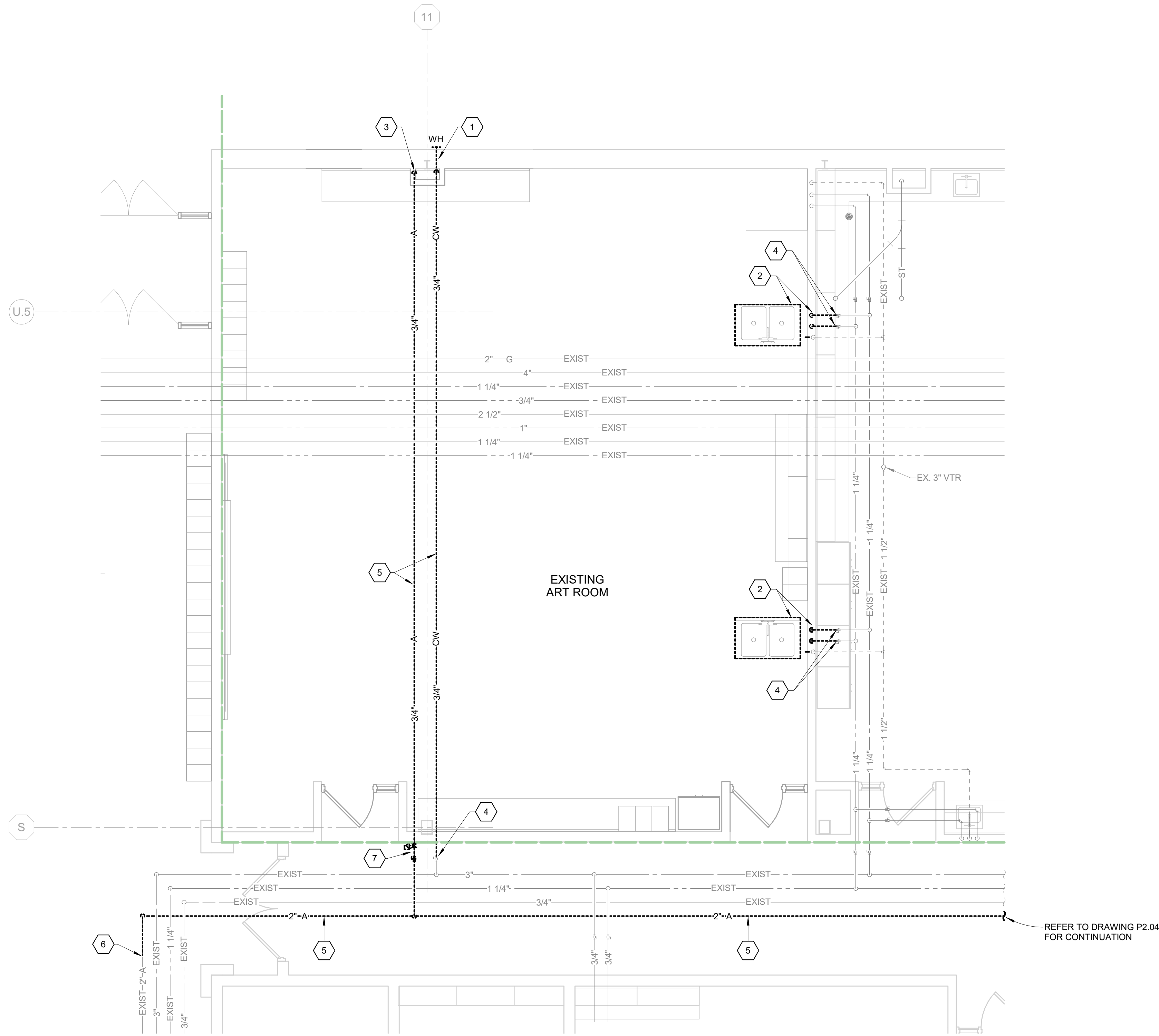
VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

UNIT A - FIRST FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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UNIT B - FIRST FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR CEILING REMOVAL AND REPLACEMENT AS REQUIRED THROUGHOUT EXISTING AREAS TO DAMAGED TILES SHALL BE REPLACED WITH NEW MATCHING EXISTING TILES WHERE REMOVED TILES ARE DAMAGED.

UNITS B & C DEMO PLAN NOTES

- 1 REMOVE EXTERIOR WALL HYDRANT AND ASSOCIATED PIPING COMPLETE. SEAL WALL PENETRATION WEATHERTIGHT. PATCH EXISTING WALL PENETRATION TO MATCH EXISTING EXTERIOR FINISHES.
- 2 REMOVE ART SINK AND ALL ASSOCIATED PIPING AND VALVES COMPLETE. REMOVE EXISTING SOLIDS INTERCEPTOR AND ALL ASSOCIATED PIPING. REMOVE WASTE PIPING BACK INTO WALL AND CAP. REMOVE WATER PIPING UP TO ABOVE CEILING.
- 3 REMOVE COMPRESSED AIR OUTLET STATION AND ALL ASSOCIATED VALVES AND PIPING COMPLETE.
- 4 REMOVE PIPING BACK TO THIS POINT AND CAP.
- 5 REMOVE PIPING COMPLETE.
- 6 REMOVE PIPING BACK TO THIS POINT AND PREPARE REMAINING PIPING FOR CONNECTION TO NEW.
- 7 REMOVE AIR PRESSURE REGULATOR AND SHUTOFF VALVE COMPLETE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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**CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION**

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



ARCHITECT

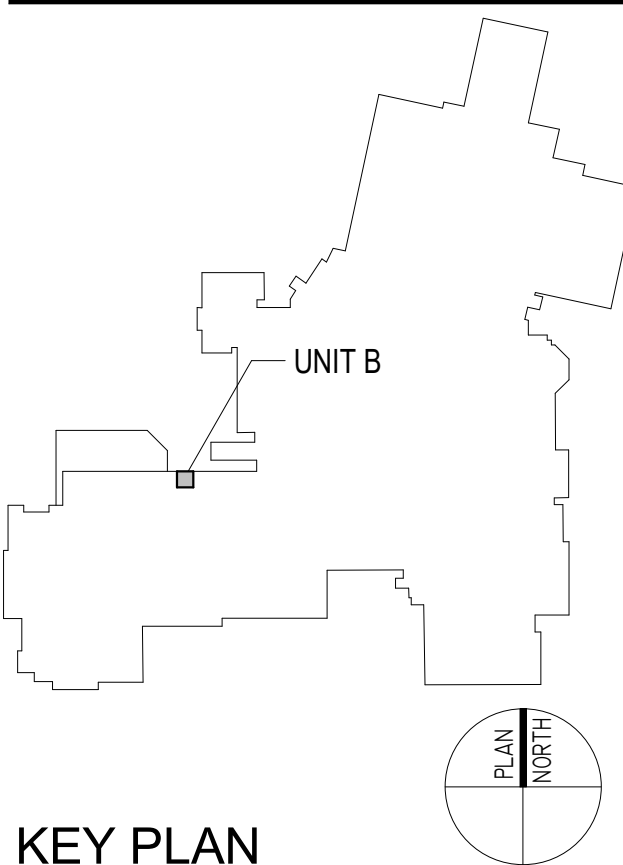
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KEY PLAN

CONSTRUCTION DOCUMENTS



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PROJECT NUMBER: 221165.01

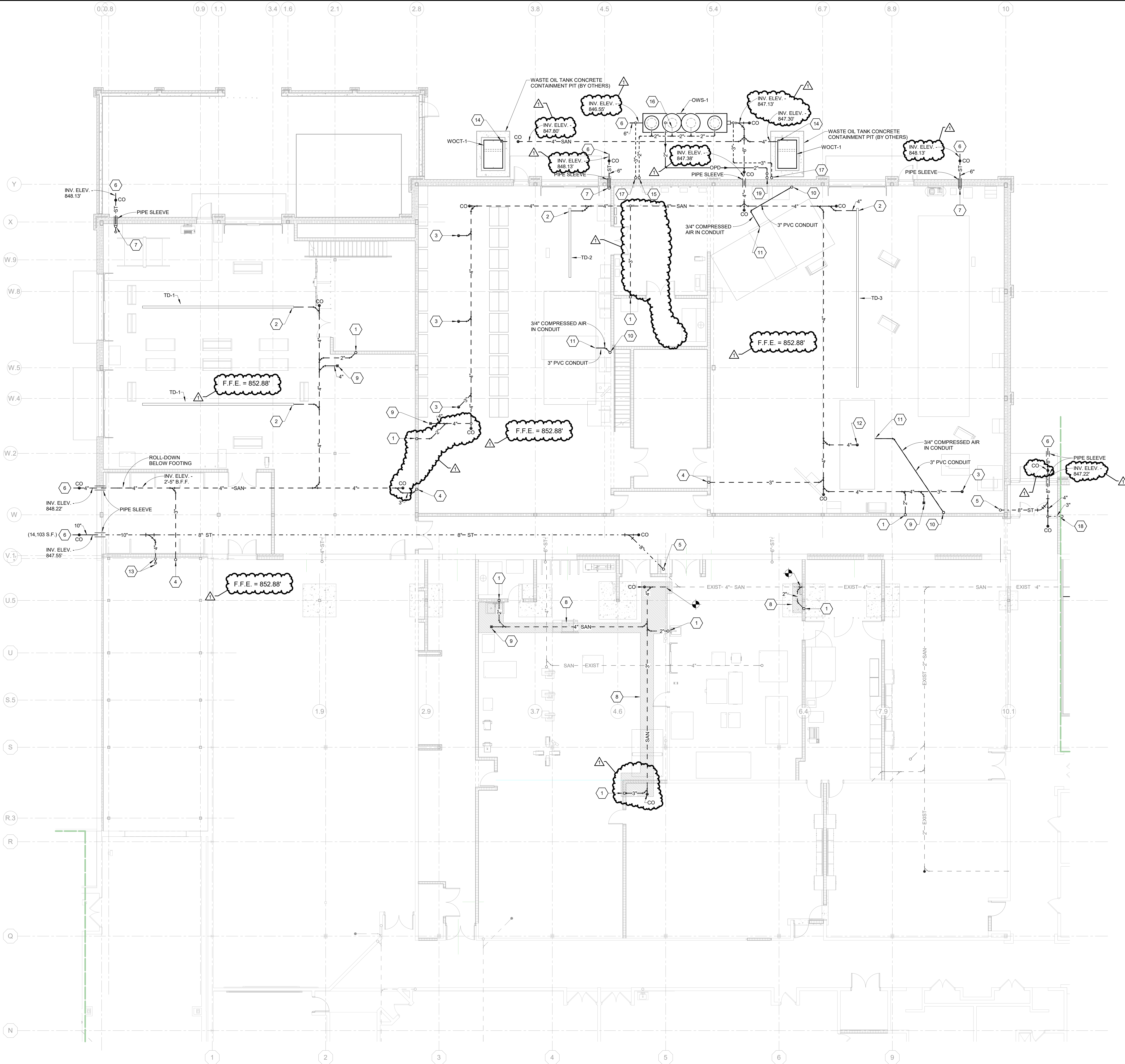
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

**UNIT B - FIRST FLOOR PLUMBING
DEMOLITION PLAN**

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UNIT A - FOUNDATION PLUMBING PLAN
SCALE: 1/8" = 1'-0"

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL PROVIDE CUTTING AND PATCHING OF EXISTING CONCRETE SLAB AS REQUIRED TO ACCOMMODATE INSTALLATION OF UNDERSLAB PIPING SYSTEMS. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

UNIT A FOUNDATION PLAN NOTES

- 2" WASTE FROM ABOVE.
- 4" WASTE WITH DEEP SEAL P-TRAP FROM TRENCH DRAIN ABOVE.
- 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
- 3" WASTE FROM ABOVE.
- 8" STORM FROM ABOVE.
- REFER TO SITE/CIVIL DRAWINGS FOR CONTINUATION.
- 6" STORM FROM ABOVE.
- EXISTING CONCRETE SLAB SAWCUT LIMITS. FIELD VERIFY EXISTING SANITARY CONNECTION POINTS.
- 4" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
- 3" CONDUIT AND 3/4" COMPRESSED AIR FROM ABOVE.
- EXTEND 3/4" COMPRESSED AIR FROM CONDUIT TO VEHICLE LIFT COMPRESSED AIR CONNECTION. MAKE FINAL CONNECTION AS REQUIRED. SEAL END OF CONDUIT AS REQUIRED.
- 4" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE. FLOOR DRAIN TO BE LOCATED IN CENTER, BOTTOM OF VEHICLE LIFT PIT.
- 4" STORM FROM ABOVE.
- 4" WASTE WITH DEEP SEAL P-TRAP FROM CONCRETE CONTAINMENT PIT DRAIN.
- 2" VENT UP TO ABOVE GRADE.
- CONNECT 2" VENT TO OWS VENT PORT CONNECTION ((1) 2" VENT FOR EACH RISER, TOTAL OF 4 LOCATIONS).
- 3" VENT UP TO ABOVE GRADE.
- 3" STORM FROM ABOVE.
- 2" OIL PUMP DISCHARGE UP TO ABOVE GRADE.

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NEW ADDITION

UNIT A

KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: JE

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	08/21/2023

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

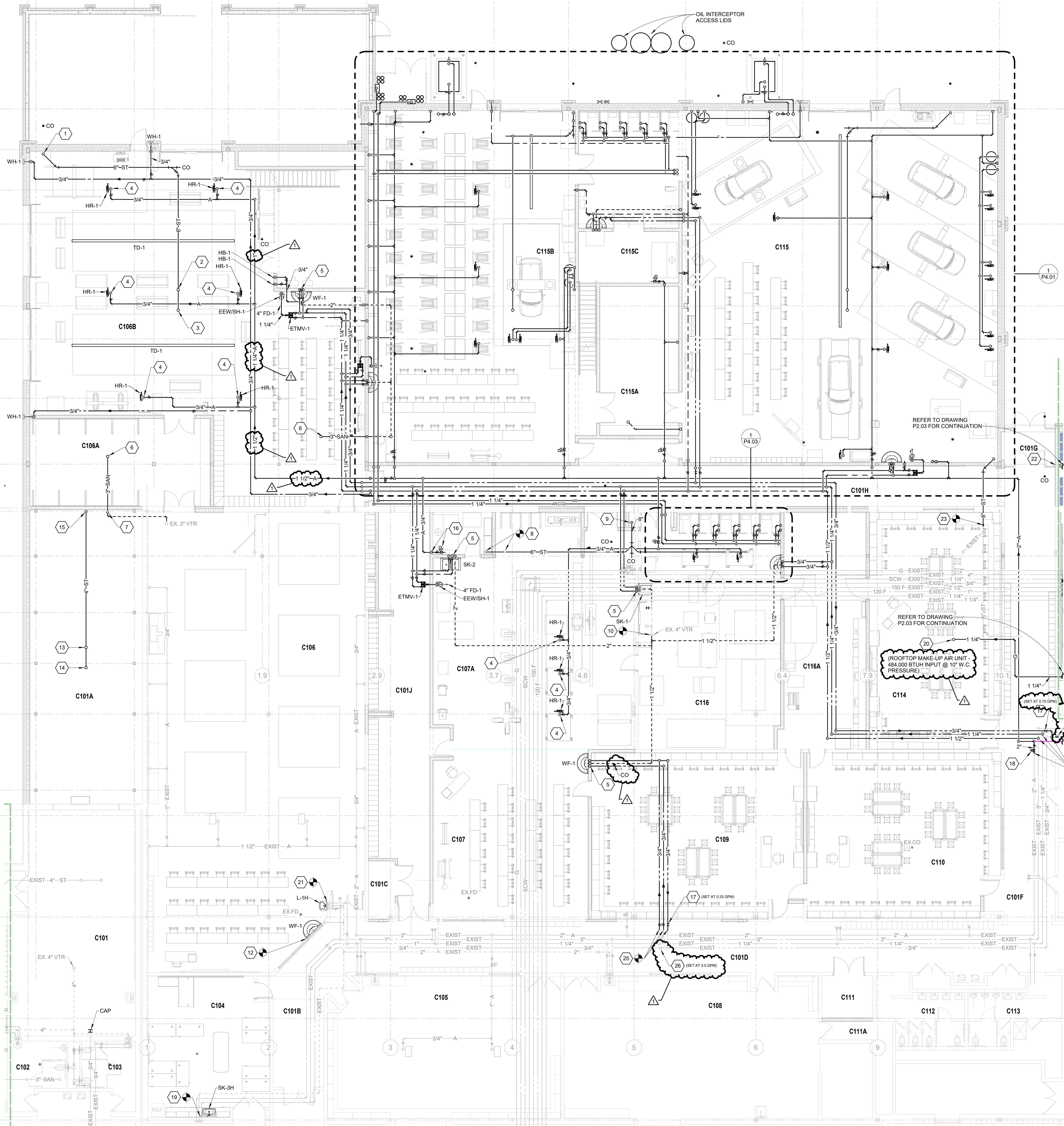
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

UNIT A - FOUNDATION PLUMBING
PLAN

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- UNIT A PLAN NOTES**
- 6" STORM DOWN TO BELOW SLAB. PROVIDE CLEANOUT AT BASE OF RISER.
 - 6" STORM FROM ROOF DRAIN ABOVE.
 - 6" STORM FROM OVERFLOW ROOF DRAIN ABOVE.
 - 3/4" COMPRESSED AIR DROP TO HOSE REEL.
 - 3/4" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB. 2" VENT UP.
 - 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
 - 3" WASTE DOWN TO BELOW SLAB. 2" VENT UP TO 3" VENT THRU ROOF.
 - CONNECT 6" STORM TO EXISTING STORM DRAIN OUTLETS.
 - 8" STORM DOWN TO BELOW SLAB. PROVIDE CLEANOUT AT BASE OF RISER.
 - CONNECT 2" VENT TO EXISTING 4" VENT THRU ROOF.
 - EXTEND 3/4" HOT AND COLD WATER TO EXISTING WATER ROUGH-INS AND MAKE FINAL CONNECTIONS AS REQUIRED. EXTEND 2" WASTE TO EXISTING WASTE ROUGH-IN AND MAKE FINAL CONNECTION AS REQUIRED.
 - 4" STORM FROM ROOF DRAIN ABOVE.
 - 4" STORM FROM OVERFLOW ROOF DRAIN ABOVE.
 - 4" STORM DOWN TO BELOW SLAB. PROVIDE CLEANOUT AT BASE OF RISER.
 - 3/4" COMPRESSED AIR DOWN IN WALL. TURN OUT INTO PAINT BOOTH AT 48" A.F.F. PROVIDE SHUTOFF VALVE, 3-STAGE AIR DRYING SYSTEM WHICH INCLUDES A PARTICULATE FILTER, COALESCING FILTER, DESICCANT DRYER AND AIR REGULATOR EQUAL TO NANPU FRPD44. CONNECT EQUIPMENT AND PIPING COMPLETE AS REQUIRED TO ACCOMMODATE PAINT BOOTH SPRAY GUN CONNECTION POINT.
 - HOT WATER RETURN BALANCE STATION. REFER TO DETAIL ON DRAWING P3.01 FOR MORE INFORMATION.
 - AIR PRESSURE REGULATOR. SET OUTLET PRESSURE AT 100 PSIG.
 - EXTEND 1/2" HOT AND COLD WATER TO EXISTING WATER ROUGH-INS AND MAKE FINAL CONNECTIONS AS REQUIRED. EXTEND 1 1/2" WASTE TO EXISTING WASTE ROUGH-IN AND MAKE FINAL CONNECTION AS REQUIRED. ROUTE 1 1/2" WASTE PIPING ALONG BACK OF CASEWORK AS TIGHT AS POSSIBLE.
 - 1 1/4" GAS UP THRU ROOF TO KITCHEN MAKE-UP AIR UNIT. EXTEND TO UNIT WITH SHUTOFF VALVE, MIN. 5" DIRT LEG AND UNION. MAKE FINAL CONNECTION AS REQUIRED.
 - EXTEND 1/2" HOT AND COLD WATER TO EXISTING WATER ROUGH-INS AND MAKE FINAL CONNECTIONS AS REQUIRED. EXTEND 1 1/2" WASTE TO EXISTING WASTE ROUGH-IN AND MAKE FINAL CONNECTION AS REQUIRED.
 - 3" STORM DOWN TO BELOW SLAB. PROVIDE A CLEANOUT AT BASE OF RISER FACING TOWARDS THE CORRIDOR.
 - CONNECT 8" STORM TO EXISTING 6" STORM AT THIS POINT.
 - CONNECT 1 1/2" COLD WATER, 1 1/4" HOT WATER AND 3/4" HOT WATER RETURN TO EXISTING MAINS AT THIS LOCATION. FIELD VERIFY EXISTING MAIN LOCATIONS. CONNECT 2" COMPRESSED AIR TO EXISTING COMPRESSED AIR MAIN. FIELD VERIFY EXISTING COMPRESSED AIR MAIN LOCATION.
 - CONNECT 3/4" HOT WATER, COLD WATER AND HOT WATER RETURN TO EXISTING WATER MAINS AT THIS LOCATION.
 - EXISTING HOT WATER RETURN BALANCE STATION. REFER TO DETAIL ON DRAWING P3.01 FOR MORE INFORMATION. SET FLOW RATE AT NOTED GPM.
 - NEW HOT WATER RETURN BALANCE STATION. REFER TO DETAIL ON DRAWING P3.01 FOR MORE INFORMATION. SET FLOW RATE AT NOTED GPM.

ROOM LEGEND - FIRST FLOOR UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
C100	LOADING / RECEIVING	1202 SF
C100A	BREAK ROOM	640 SF
C100B	ELECTRICAL	825 SF
C100C	LAUNDRY	157 SF
C100D	TOILET	52 SF
C100E	TOILET	52 SF
C100F	SECURE STORAGE	91 SF
C100G	OFFICE	132 SF
C100H	KITCHEN	177 SF
C101	STORAGE	1015 SF
C101A	STORAGE	1287 SF
C101B	CORRIDOR	174 SF
C101C	MEDIA DATA	61 SF
C101D	YEARBOOK CLASSROOM / LAB	Not Placed
C101E	CORRIDOR	1860 SF
C101F	CORRIDOR	177 SF
C101G	JOURNALISM CLASSROOM	Not Placed
C101H	VESTIBULE	70 SF
C101I	OFFICE	156 SF
C101J	CORRIDOR	992 SF
C102	MENS TOILET	124 SF
C103	WOMENS TOILET	119 SF
C104	OFFICE	638 SF
C105	ELECTRONICS / PHYSICS	1251 SF
C106	CONSTRUCTION TRADES LAB	3699 SF
C106A	STORAGE	622 SF
C106B	ADVANCED CONSTRUCTION TRADES LAB	3867 SF
C107	CLASSROOM	1015 SF
C107A	ADVANCED MFG. ARTISAN LAB	1696 SF
C107B	FINISHING ROOM	97 SF
C108	GRAPHIC COMMUNICATIONS	1386 SF
C109	CAD LAB	1347 SF
C110	CAD LAB	1217 SF
C111	MEDIA DATA	83 SF
C111A	STORAGE	101 SF
C112	GIRLS	188 SF
C113	BOYS	163 SF
C114	CAD LAB	1188 SF
C115	ADVANCED AUTOMOTIVE SERVICES LAB	4790 SF
C115A	STORAGE	458 SF
C115B	AUTOMOTIVE SERVICES LAB	2629 SF
C115C	FINISHING ROOM	201 SF
C116	ADVANCED MFG. INNOVATION LAB	1278 SF
C116A	ADVANCED MFG. CLEAN LAB	762 SF
C117	CERAMIC CLASSROOM / LAB	1387 SF
C117A	STORAGE	145 SF
C117B	STORAGE / MATERIALS	150 SF
C118	INDEPENDENT STUDY / COMMERCIAL ART	1425 SF
C119	PHOTOGRAPHY	992 SF
C119A	DARKROOM	309 SF
C120	COMPUTER ART ROOM	442 SF
C121	TEACHERS WORKROOM	672 SF
C122A	DEPT. HEAD OFFICE	104 SF
C123	CERAMICS CLASSROOM / LAB	1206 SF
C123A	STORAGE	145 SF
C123B	STORAGE / MATERIALS	150 SF
C124	CULINARY ARTS	1290 SF
C124A	CLOSET	39 SF
C124B	DRY GOODS	154 SF
C124C	WALK-IN	129 SF
C125	DRAWING CLASSROOM / LAB	1173 SF
C126	DRAWING CLASSROOM / LAB	1183 SF
C127	DRAWING CLASSROOM / LAB	1182 SF
C128	JEWELRY CLASSROOM / LAB	953 SF
C129	PHOTOGRAPHY	1023 SF
C129A	DARKROOM	232 SF
C131	CORRIDOR	1365 SF
C131A	STORAGE	166 SF
C131B	MEDIA DATA	60 SF
C131C	CORRIDOR	476 SF
C132	STUDIO	244 SF
C133	PODCAST	144 SF
C134	PASSAGE	36 SF
C135	STUDIO	63 SF
C136	STORAGE	105 SF
C136A	COMPUTER LAB	201 SF
C137	STUDIO	91 SF
C138	STUDIO	93 SF
C138A	PASSAGE	127 SF
C138B	STUDIO	54 SF
C138C	STUDIO	52 SF
C138D	STUDIO	52 SF
C138E	STUDIO	52 SF
C139	CLASSROOM	984 SF
C141	TV CLASSROOM	819 SF
C141A	STUDIO B	165 SF
C142	STUDIO B	196 SF
C142A	ENGINEERING	114 SF
C143	STUDIO A	1029 SF
C144	TV CONTROL	251 SF
C144A	EQUIPMENT ROOM	120 SF
C145	COMPUTER CLASSROOM	851 SF
C145A	SECURE CLOSET	17 SF
C146	COMPUTER SERVER STORAGE	303 SF
C147	JOURNALISM CLASSROOM	1468 SF
C147A	OFFICE	136 SF
C148	ELECTRICAL ROOM	143 SF
C149	YEARBOOK CLASSROOM / LAB	1350 SF
C149A	PODCAST	147 SF
C150	TV-CPU LAB	714 SF
C151	MECHANICAL	5687 SF
C152	-	927 SF

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR CEILING REMOVAL AND REPLACEMENT AS REQUIRED THROUGHOUT EXISTING AREAS TO DAMAGED TILES SHALL BE REPLACED WITH NEW MATCHING EXISTING TILES WHERE REMOVED TILES ARE DAMAGED.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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CARMEL HIGH SCHOOL POLYTECHNIC ADDITION AND RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

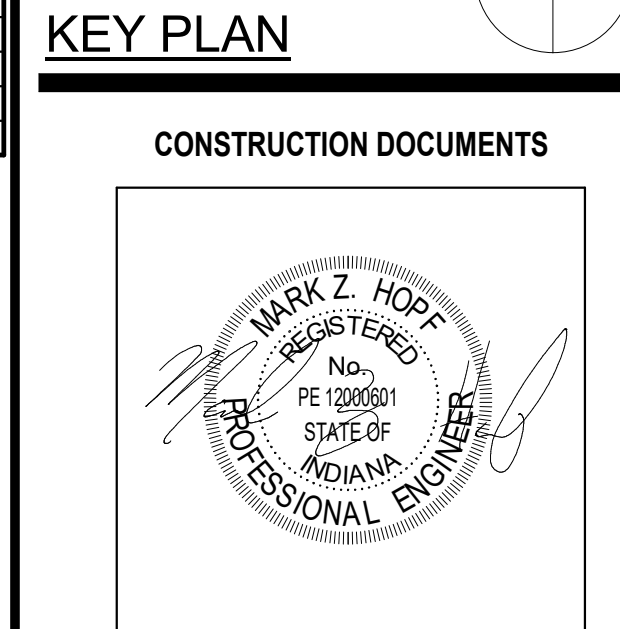
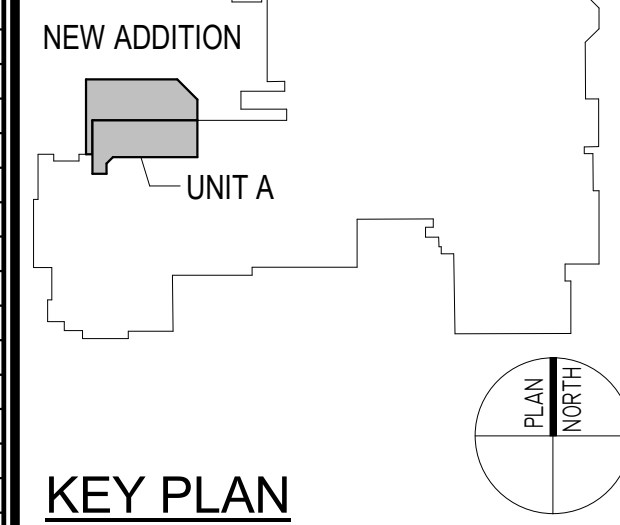


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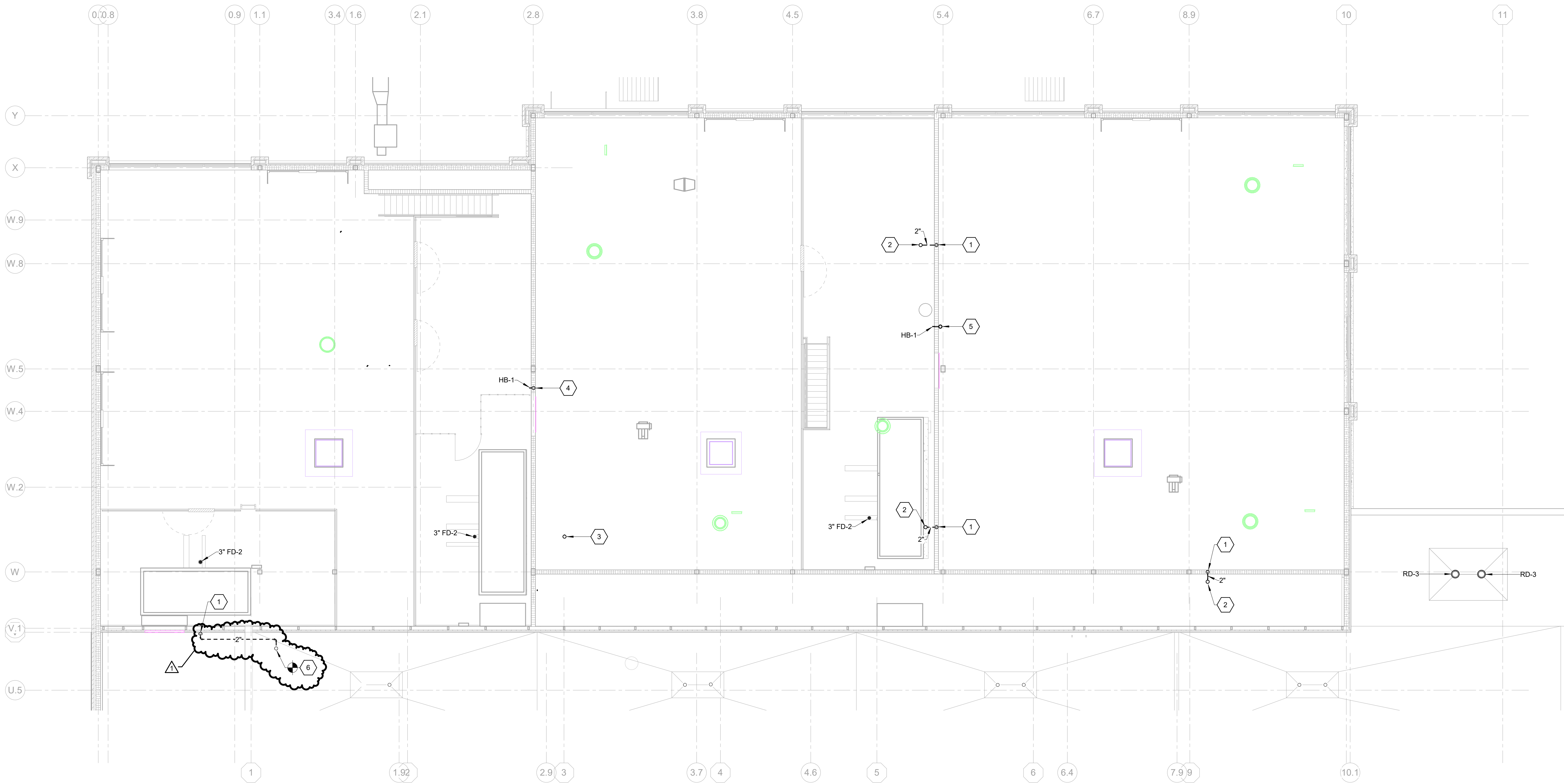
DRAWN BY: JE
PROJECT NUMBER: 221165.01
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

UNIT A - FIRST FLOOR PLUMBING PLAN

P2.01

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UNIT A - MEZZANINE PLUMBING PLAN
SCALE: 1/8" = 1'-0"

- UNIT A MEZZANINE PLAN NOTES
- 2" VENT UP FROM BELOW.
 - 2" VENT UP TO 3" VENT THRU ROOF.
 - 2" VENT FROM BELOW UP TO 3" VENT THRU ROOF.
 - 3/4" COLD WATER FROM BELOW UP TO HOSE BIBB.
 - 3/4" COLD WATER FROM ABOVE.
 - CONNECT 2" VENT TO EXISTING 3" VENT THRU ROOF.

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS

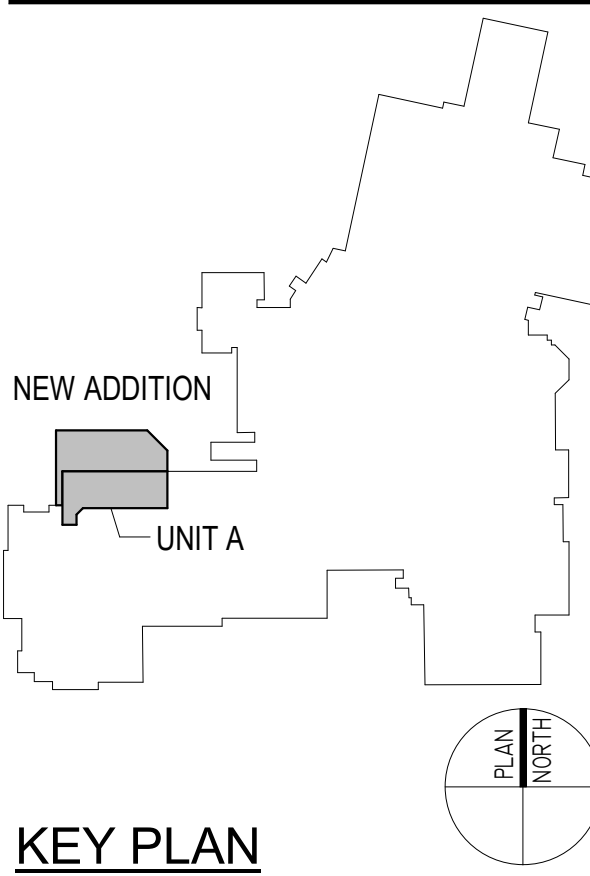


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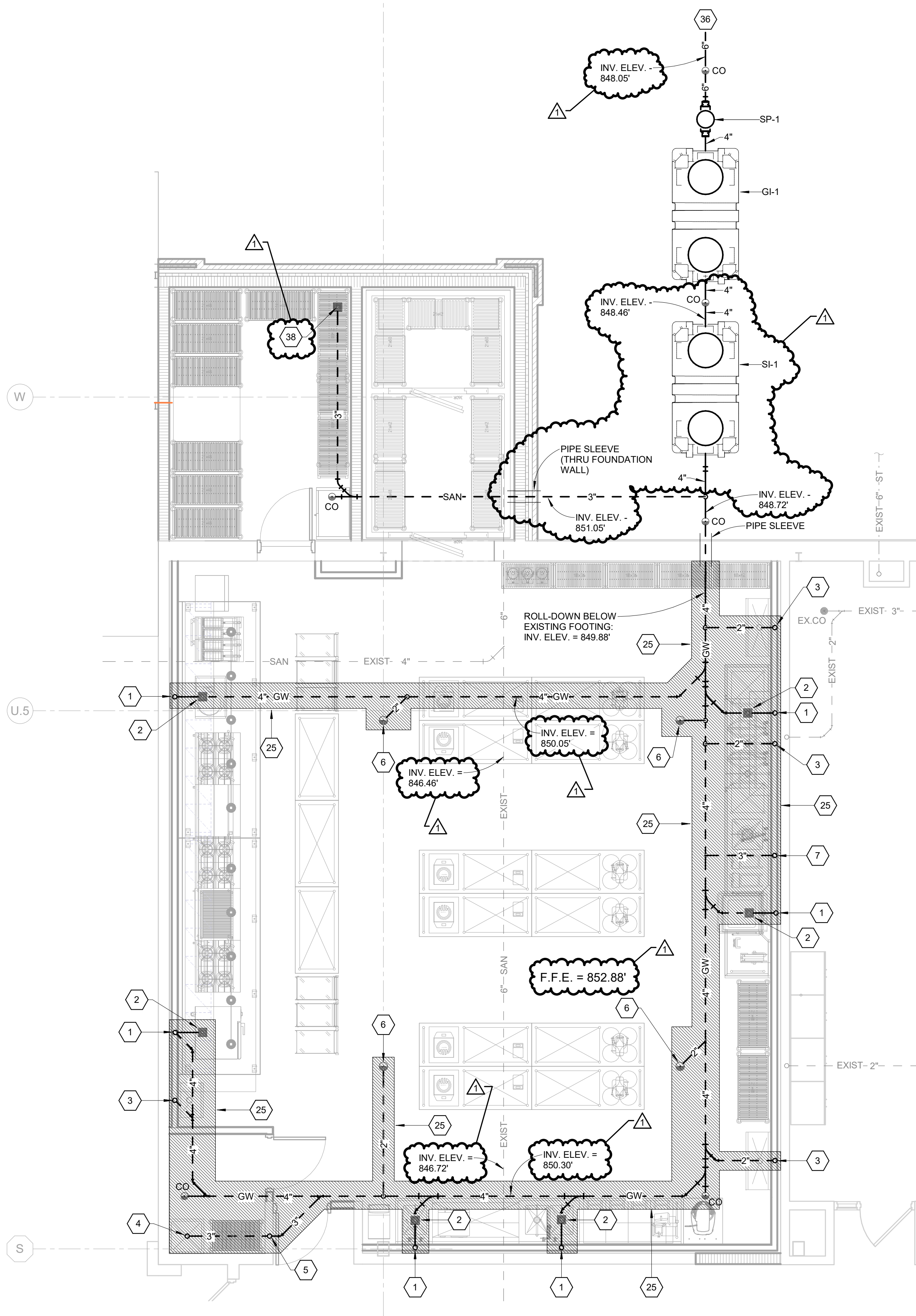
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PROJECT NUMBER: 221165.01		
PROJECT ISSUE DATE: 08/31/2023		
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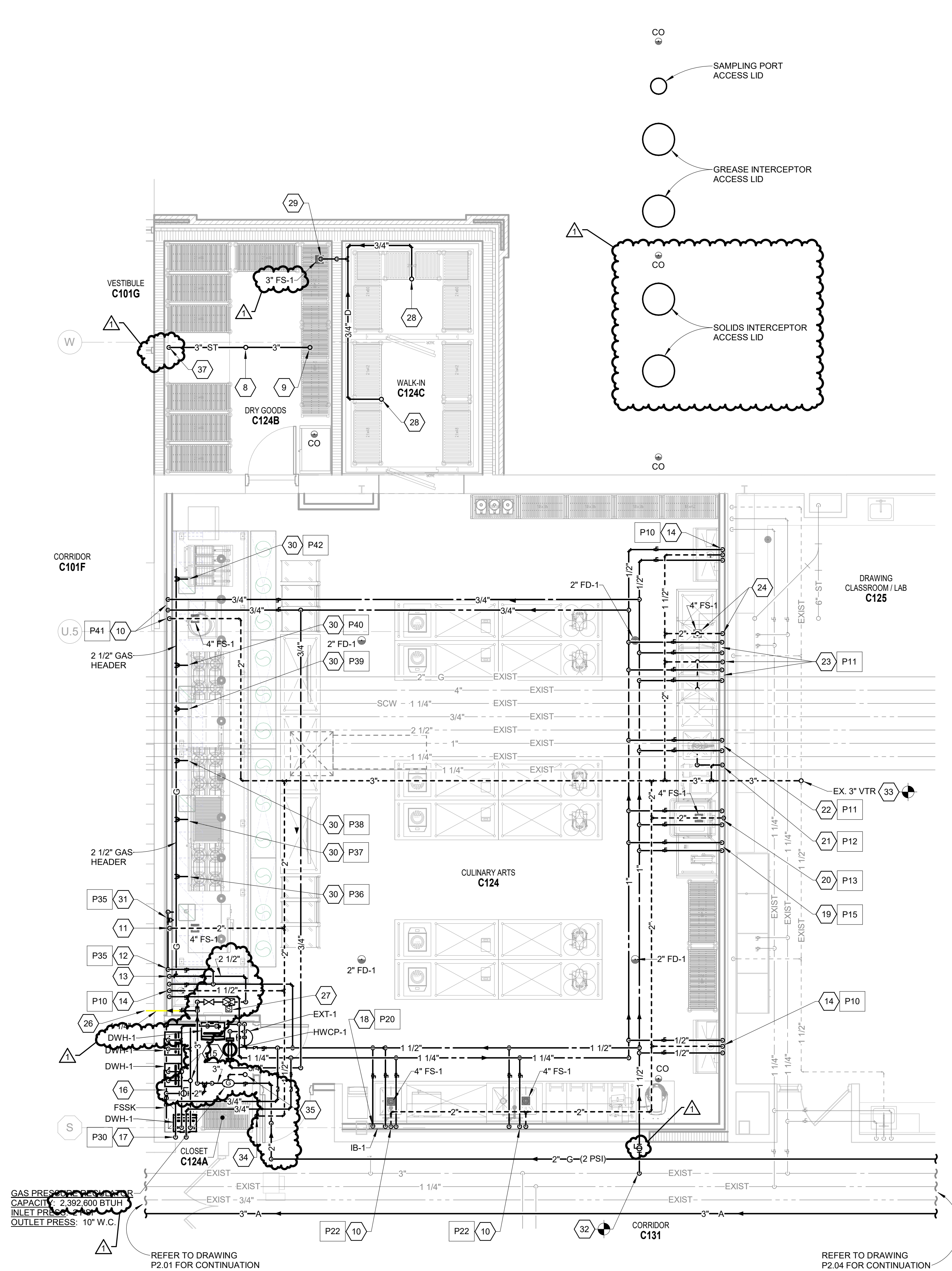
UNIT A - MEZZANINE PLUMBING
PLAN

P2.02

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UNIT B - FOUNDATION PLUMBING PLAN
SCALE: 1/4" = 1'-0"



UNIT B - FIRST FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"

GENERAL KITCHEN PLUMBING NOTES

INSTALL ALL FAUCET ASSEMBLIES, PRE-RINSE SPRAY ASSEMBLIES, QUICK-DISCONNECT ASSEMBLIES, HOSE ASSEMBLIES, POT FILLER ASSEMBLIES, VACUUM BREAKERS, CHECK VALVES, FLOW CONTROL VALVES, SOLENOID VALVES, WATER PRESSURE REDUCING VALVES, GAS PRESSURE REDUCING VALVES, TEMPERATURE GAUGES, PRESSURE GAUGES, WATER HAMMER SHOCK ABSORBERS & WATER FILTRATION SYSTEMS FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR.

FURNISH & INSTALL ALL WATER, GAS & STEAM SUPPLY LINES, DRAIN MANIFOLDS & TAILPIECES, TRAPS, SHUT-OFF VALVES, VENT PIPING, GAS SUPPLY LINE STRAINERS/FILTERS, BACK FLOW PREVENTION DEVICES, FLOOR DRAINS & FLOOR SINKS AS REQUIRED FOR EQUIPMENT INSTALLATION AND ANY CODE REQUIREMENTS. ALL SUPPLY LINES SERVICING EQUIPMENT ADJACENT TO AN EXTERIOR WALL ARE TO BE RAN ALONG INTERIOR FACE OF WALL TO AVOID POTENTIAL FREEZING.

FURNISH & INSTALL CHROME PLATED, OR PAINTED, PIPING ON ALL EXPOSED WATER OR GAS PIPING ABOVE COUNTER HEIGHT OR IN "DIRECT" LINE OF SIGHT TO THE OWNER/OPERATOR. FURNISH & INSTALL STAINLESS STEEL OR CHROME PLATED BRASS ESCUTCHEONS OR FLANGES FOR ALL PENETRATING UTILITY LINES AND SEAL PENETRATIONS WATER-TIGHT AND VERMIN PROOF.

FURNISH & INSTALL TYPE "L" COPPER TUBING DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINKS (INCLUDING WALK-IN COOLER AND FREEZER COILS) AND TO INSULATE ALL DRAIN LINES AS REQUIRED. INSTALL DRAIN LINES SO THEY DO NOT AFFECT UNDERCOUNTER STORAGE AND OTHER OPERATIONAL FUNCTIONS OF THE FIXTURES.

FURNISH & INSTALL ALL 12"x12"x8" FLOOR SINKS WITH HALF GRATES, FLOOR SINKS TO BE MOUNTED IN FLOOR SUCH THAT THE TOP OF THE RIM WILL BE FLUSH WITH FINISHED FLOOR ELEVATION UNLESS OTHERWISE DIRECTED BY STATE & LOCAL CODES. FLOOR SINKS FOR DISHMACHINES AND ALL COOKING EQUIPMENT TO HAVE A MINIMUM OF 3" DRAIN CONNECTION. DO NOT SLOPE FLOOR TO FLOOR DRAINS OR FLOOR SINKS IN THIS AREA!!!

UTILIZE EXISTING FLOOR DRAINS, FLOOR SINKS, DIRECT PLUMBING DRAINS, GAS CONNECTIONS & WATER CONNECTIONS WHERE POSSIBLE FOR NEW EQUIPMENT AND CAP OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE DRAWINGS.

GENERAL CONSTRUCTION NOTE

CONTRACTOR SHALL PROVIDE CUTTING AND PATCHING OF EXISTING CONCRETE SLAB AS REQUIRED TO ACCOMMODATE INSTALLATION OF UNDERSLAB PIPING SYSTEMS. PATCH CONCRETE SLAB TO MATCH EXISTING FINISHES.

GENERAL CONSTRUCTION NOTE

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UNITS C PLAN NOTES

- 4" WASTE DOWN, 2" VENT UP.
- 4" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR SINK ABOVE.
- 2" WASTE FROM ABOVE.
- 3" WASTE WITH DEEP SEAL P-TRAP FROM MOP BASIN ABOVE.
- 1 1/2" VENT UP.
- 2" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR DRAIN ABOVE.
- 3" WASTE FROM ABOVE.
- 3" STORM FROM ROOF DRAIN ABOVE.
- 3" STORM FROM OVERFLOW ROOF DRAIN ABOVE.
- 3/4" HOT AND COLD WATER DOWN, 2" VENT FROM BELOW SLAB UP TO ABOVE CEILING.
- 2" VENT FROM BELOW SLAB UP TO ABOVE CEILING.
- 3/4" COLD WATER DOWN IN WALL. ROUTE HORIZONTALLY THRU WALL TO KITCHEN EQUIPMENT.
- 2 1/2" GAS DOWN IN WALL. TURN OUT EXPOSED AND ROUTE FULL SIZE ALONG WALL.
- 1/2" HOT AND COLD WATER DOWN, 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.
- 3" INTAKE / EXHAUST FLUE UP THRU ROOF. REFER TO DETAIL ON DRAWING P3.01 FOR MORE INFORMATION.
- 2" GAS DOWN ALONG WALL. EXTEND TO EACH INSTANTANEOUS WATER HEATER. REFER TO DETAIL ON DRAWING P3.01 FOR MORE INFORMATION.
- 3/4" HOT AND COLD WATER WITH SHUTOFF VALVES AND CHECK VALVES IN SUPPLIES DOWN TO MOP BASIN FAUCET.
- 1/2" COLD WATER DOWN TO ICE MAKER SUPPLY BOX.
- 3/4" HOT AND COLD WATER DOWN TO WALL MOUNTED MIXING FAUCET. EXTEND OUTLET OF MIXING FAUCET TO WALL MOUNTED HOSE-REEL. MAKE FINAL CONNECTION AS REQUIRED.
- 3/4" HOT AND COLD WATER DOWN. EXTEND HOT WATER TO DISHWASHER INTERNAL BOOSTER HEATER THRU KEC PROVIDED INLINE WATER FILTER. MAKE FINAL CONNECTION AS REQUIRED. EXTEND COLD WATER TO WATER TEMPERING DEVICE. MAKE FINAL CONNECTION AS REQUIRED.
- 3" WASTE DOWN TO BELOW SLAB, 2" VENT UP TO ABOVE CEILING. EXTEND 2" WASTE TO GARBAGE DISPOSAL SYSTEM.
- 3/4" HOT AND COLD WATER DOWN.
- 3/4" HOT AND COLD WATER DOWN. EXTEND TO 3-COMPARTMENT SINK FAUCET. MAKE FINAL CONNECTIONS AS REQUIRED. MANIFOLD TWO SINK BAYS TOGETHER AND ROUTE TO WALL. 2" WASTE DOWN TO BELOW SLAB, 1 1/2" VENT UP TO ABOVE CEILING.
- 2" VENT FROM BELOW SLAB UP TO ABOVE CEILING. 2" WASTE FROM SINK BAY. TERMINATE OVER FLOOR SINK WITH AIR GAP.
- EXISTING CONCRETE SLAB SAWCUT LIMITS. FIELD VERIFY EXISTING SANITARY CONNECTION POINTS.
- 1 1/4" GAS TO CULINARY LAB MAKE-UP AIR UNIT. REFER TO DRAWING P2.01 FOR CONTINUATION. REFER TO FOODSERVICE EQUIPMENT DRAWINGS FOR MORE INFORMATION.
- EMERGENCY GAS SHUT-OFF SOLENOID VALVE. INTERLOCK WITH HOOD FIRE SUPPRESSION SYSTEM. LOCATE VALVE AND EMERGENCY SHUTOFF VALVE BELOW CEILING FOR ACCESS.
- CONNECT 3/4" CONDENSATE TO EVAPORATOR COIL DRAIN PAN.
- 3/4" CONDENSATE DOWN. TERMINATE OVER FLOOR DRAIN WITH P-TRAP ASSEMBLY AND AIR GAP.
- EXTEND 3/4" GAS FROM HEADER TO EQUIPMENT THRU SHUTOFF VALVE, KEC PROVIDED FLEXIBLE CONNECTOR AND QUICK-DISCONNECT FITTING. MAKE FINAL CONNECTION AS REQUIRED.
- EXTEND 3/4" COLD WATER TO EACH COMBI OVEN THRU KEC PROVIDED IN-LINE WATER FILTER. MAKE FINAL CONNECTIONS AS REQUIRED.
- CONNECT 1 1/2" COLD WATER TO EXISTING 3" COLD WATER MAIN AT THIS POINT.
- CONNECT 3" VENT TO EXISTING 3" VENT THRU ROOF. MODIFY/REPLACE PIPING AS REQUIRED.
- 1 1/2" VENT FROM BELOW SLAB UP TO ABOVE CEILING.
- GAS PRESSURE REGULATOR VENT UP THRU ROOF. SEAL ROOF PENETRATION WEATHERTIGHT. TERMINE VENT PER GAS PRESSURE REGULATOR MANUFACTURER'S REQUIREMENTS. COORDINATE ROOF PENETRATION WITH EXISTING ROOF TOP EQUIPMENT.
- REFER TO SITE / CIVIL DRAWING FOR CONTINUATION OF PIPING.
- 3" STORM DOWN TO BELOW SLAB.
- 3" WASTE WITH DEEP SEAL P-TRAP FROM FLOOR SINK ABOVE.

VERIFICATION NOTE

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CARMEL HIGH SCHOOL POLYTECHNIC ADDITION AND RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



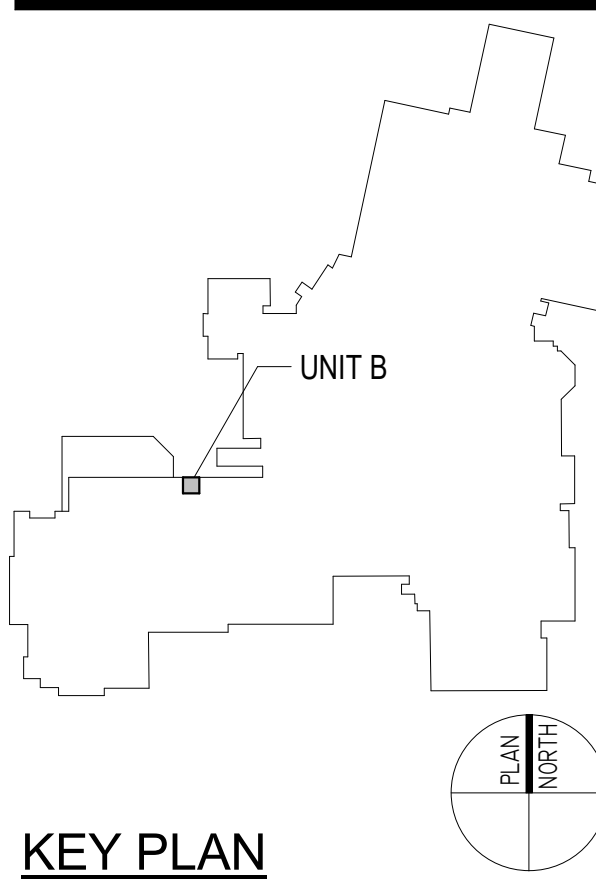
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KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: JE

PROJECT NUMBER: 221165.01

REV. NO. DATE

1 ADDENDUM #1 09/21/2023

UNIT B - FOUNDATION AND FIRST FLOOR PLUMBING PLANS

P2.03

MECH ROOM PLAN NOTES

- 1 REMOVE EXISTING AIR COMPRESSOR AND RECEIVER TANK COMPLETE.
- 2 REMOVE COMPRESSED AIR PIPING COMPLETE. REMOVE ALL VALVES, PRESSURE REGULATORS AND PRESSURE GAUGES COMPLETE.
- 3 REMOVE EXISTING AFTERCOOLER/AIR DRYER AND ALL ASSOCIATED VALVES AND PIPING COMPLETE.
- 4 EXISTING CONCRETE EQUIPMENT PAD TO REMAIN.
- 5 CONNECT 2" GAS (2 PSI) TO EXISTING 6" GAS MAIN (5 PSI) AT THIS POINT.
- 6 REMOVE COMPRESSED AIR PIPING COMPLETE.
- 7 REMOVE COMPRESSED AIR PIPING BACK TO THIS POINT AND PREPARE REMAINING PIPE FOR CONNECTION TO NEW.
- 8 AIR PRESSURE REGULATOR SET AT 15 PSIG.
- 9 CONNECT 1" COMPRESSED AIR TO EXISTING COMPRESSED AIR AT THIS POINT. FIELD VERIFY EXISTING COMPRESSED AIR PIPE SIZE.

CARMEL HIGH SCHOOL POLYTECHNIC ADDITION AND RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS

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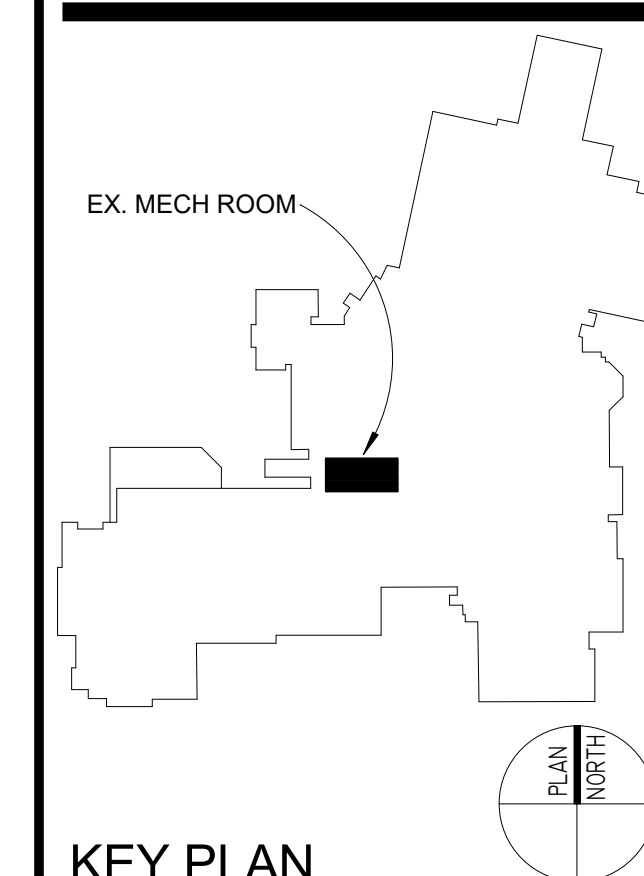
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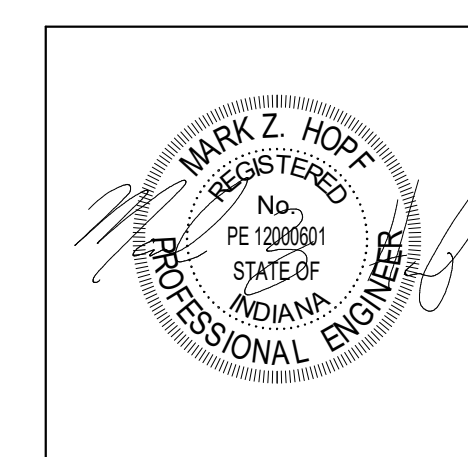
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DRAWN BY: .

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/202

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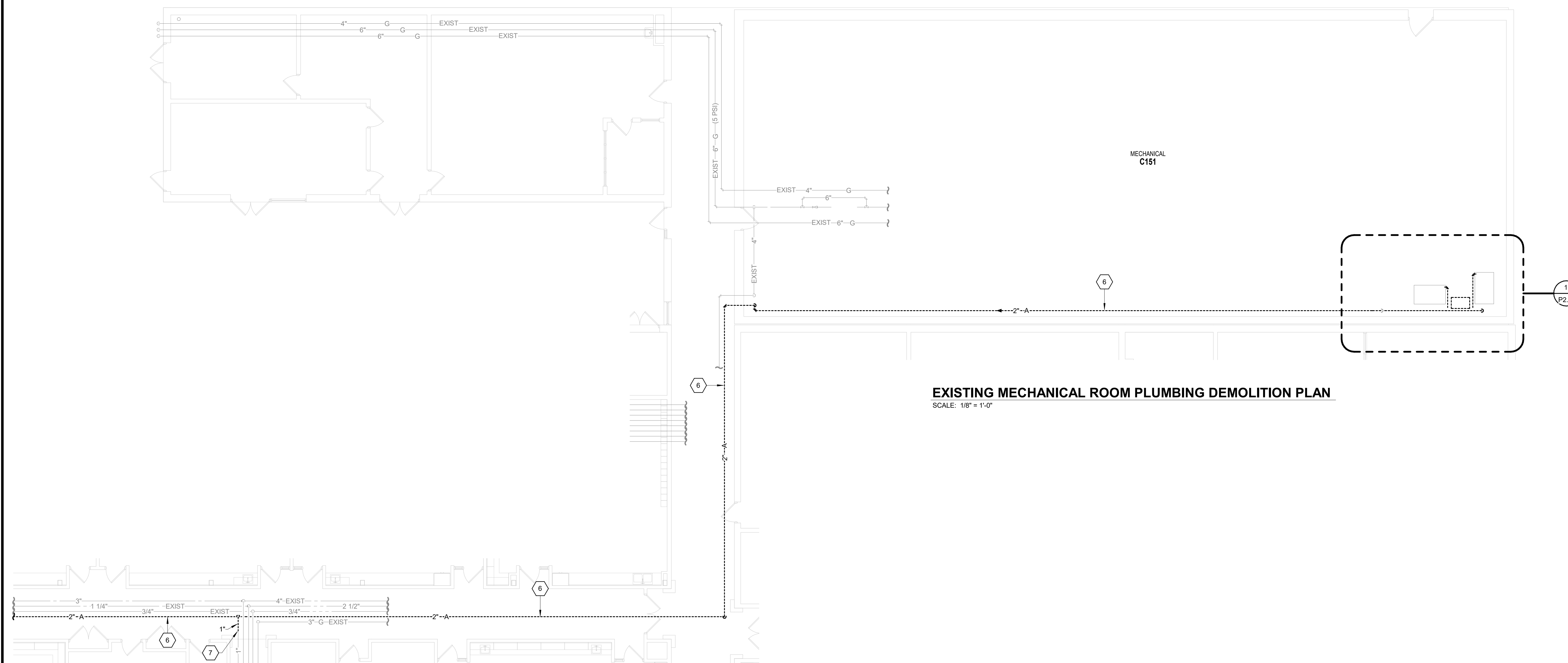
**EXISTING MECHANICAL ROOM
PLUMBING PLANS**

P2.04

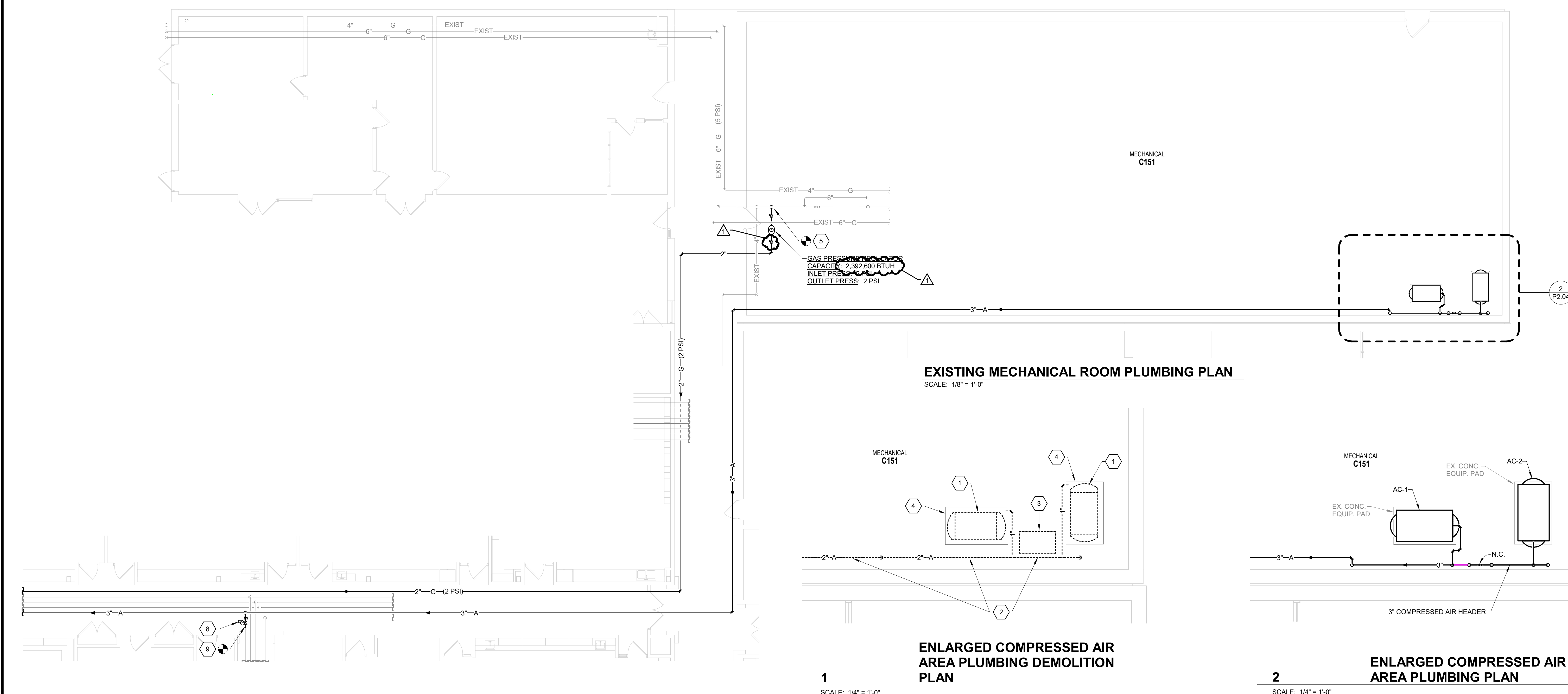
VERIFICATION NOTE

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WITH WORK.



EXISTING MECHANICAL ROOM PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



EXISTING MECHANICAL ROOM PLUMBING PLAN
SCALE: 1/8" = 1'-0"

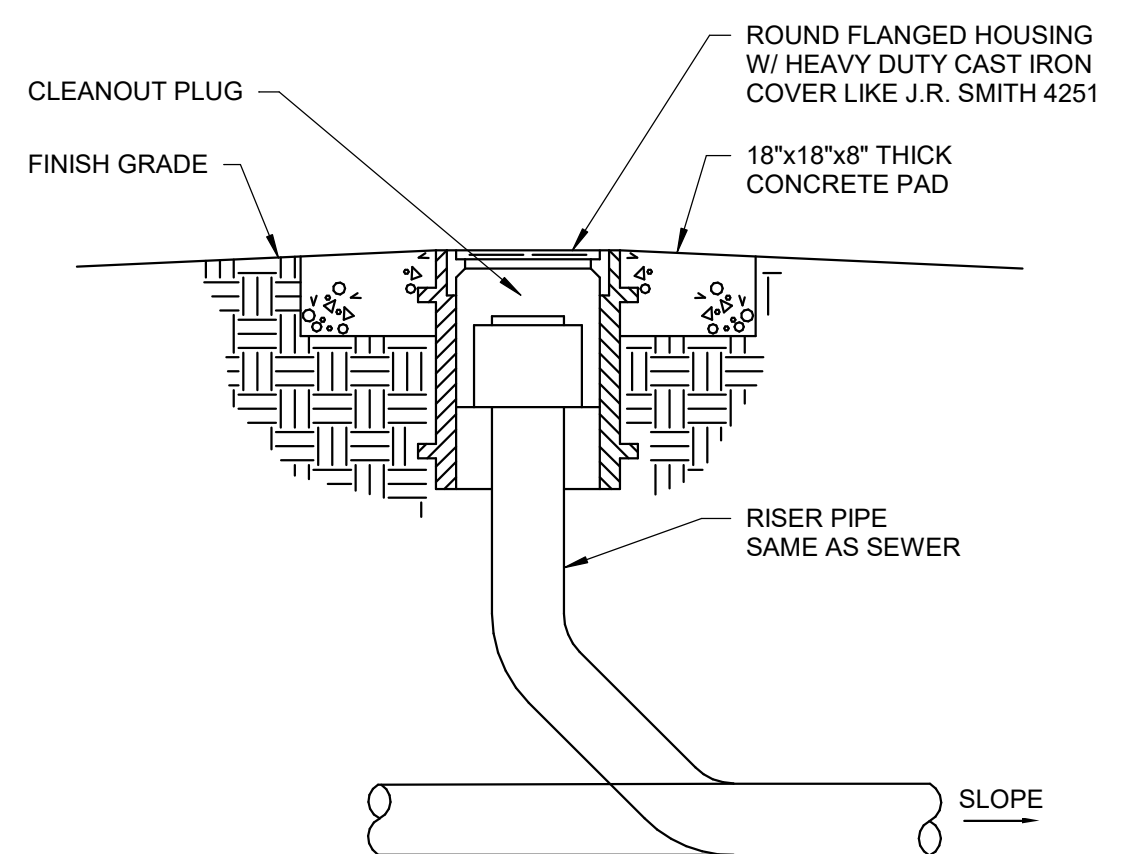
ENLARGED COMPRESSED AIR AREA PLUMBING DEMOLITION PLAN

ENLARGED COMPRESSED AIR AREA PLUMBING PLAN

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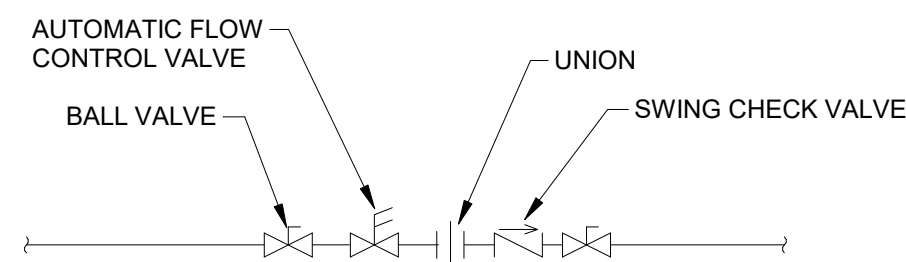
PLUMBING FIXTURE SCHEDULE																			
MARK	ITEM	MFG	FIXTURE				TYPE	COLOR	TRIM			ACCESSORIES			CONNECTIONS				COMMENTS
			MODEL	MATERIAL					ITEM	MFG	MODEL	ITEM	MFG	MODEL	CW	HW	W	V	
EEW/SH-1	EMERGENCY EYE WASH / SHOWER ASSEMBLY	GUARDIAN	GB1950	STAINLESS/POLYMER	FLOOR MOUNTED	-	-	-	-	-	EMERGENCY TMV	GUARDIAN	G6040	1 1/4"	1 1/4"	0"	0"		
FSSK	MOP SERVICE BASIN	FIAT	TSB-3000	TERAZZO	FLOOR MOUNTED	-	-	FAUCET	CHICAGO	897-CCP	-	-	-	3/4"	3/4"	3"	1 1/2"	PROVIDE CHECK VALVES IN WATER SUPPLIES	
GI-1	GREASE INTERCEPTOR	SCHIER PRODUCTS	GB-500	POLYETHYLENE	BELOW GRADE	-	-	-	-	-	-	-	-	3/4"	3/4"	4"		4" INLET / OUTLET; 510 GAL. LIQUID CAPACITY; 1,859 LBS. GREASE CAPACITY AT 250 GPM; 128 GAL. SOLIDS; PROVIDE FC2 RISER FOR ACCESS TO GRADE	
HB-1	HOSE BIBB	CHICAGO	387-E27CP	ROUGH BRONZE	WALL MOUNTED	-	-	-	-	-	-	-	-	3/4"	0"				
IB-1	ICE MAKER SUPPLY BOX	GUY GRAY	MIB 1	STAINLESS	WALL MOUNTED	-	-	-	-	-	-	-	-	1/2"					
SI-1	SOLIDS INTERCEPTOR	SCHIER PRODUCTS	SI-500	POLYETHYLENE	BELOW GRADE	-	-	-	-	-	-	-	-			4"		4" INLET / OUTLET; 510 GAL. LIQUID CAPACITY; 457 GAL. SOLIDS/SEDIMENT CAPACITY; PROVIDE FC2 RISER FOR ACCESS TO GRADE	
SK-2	2-COMPARTMENT SERVICE SINK	ADVANCE TABCO	93-62-36	STAINLESS	FLOOR MOUNTED	-	-	FAUCET	T&S BRASS	S-0231	DRAIN	-	-	1/2"	1/2"	2"	2"		
SK-3H	SINGLE COMP. SINK - ADA	ELKAY	LRAD1918-5.5	STAINLESS	COUNTERTOP	-	-	FAUCET	CHICAGO	201-AGN8AE2805FAB	-	-	-	1/2"	1/2"	2"	1 1/2"	PROVIDE CENTERED REAR DRAIN TO ACCOMMODATE ADA APPROACH	
WF-1	54" SEMI-CIRCULAR WASHFOUNTAIN	BRADLEY	WF2704	STAINLESS	WALL MOUNTED	-	-	-	-	-	POINT-OF-USE TMV	POWERS	LFG480	3/4"	3/4"	2"	2"	LESS SOAP AND TOWEL DISPENSER; SET POINT-OF-USE TMV OUTLET TEMP AT 105 DEG. F.; SIZE TMV FOR 0.25 GPM	
WH-1	NON-FREEZE WALL HYDRANT	J.R. SMITH	5509QT	ROUGH BRONZE	WALL MOUNTED	-	-	-	-	-	-	-	-	3/4"				MOUNT AT 18" A.F.G.	

PLUMBING EQUIPMENT SCHEDULE												
MARK	DESCRIPTION	LOCATION	MANUFACTURER/MODEL NUMBER	CAPACITY	REMARKS	ELECTRICAL DATA					COMMENTS	
						HP	KW	V	AMP	PH		
AC-1	AIR COMPRESSOR	MECHANICAL ROOM C151	KAESER - SK20 AIR CENTER	217 PSIG OPERATING PRESS.; 62.5 CFM CAPACITY AT OPERATING PRESS.	ROUTE RELIEF/DISCHARGE PIPING TO NEAREST FLOOR DRAIN WITH AIR GAP	20		460		3	ROTARY SCREW TYPE AIR COMPRESSOR - PRE-PACKAGED UNIT; PROVIDE KAESER OIL/WATER SEPARATOR FOR CONDENSATE DISCHARGE. KAESER MODEL KCF 50.	
AC-2	AIR COMPRESSOR	MECHANICAL ROOM C151	KAESER - SK20 AIR CENTER	217 PSIG OPERATING PRESS.; 62.5 CFM CAPACITY AT OPERATING PRESS.	ROUTE RELIEF/DISCHARGE PIPING TO NEAREST FLOOR DRAIN WITH AIR GAP	20		460		3		
ADP-1	ANTI-FREEZE/COOLANT DRUM PUMP	AUTOMOTIVE LABS	MACNAUGHT R-SERIES R300S-01		AIR OPERATED ANTI-FREEZE PUMP; MOUNT TO ANTI-FREEZE DRUM						AIR INLET TO PUMP	
AR-1	ARGON STATION DROP	WELDING BOOTH	REXARC - MODEL 2-04-1604A									
AR/CO2-1	ARGON/CO2 MIX STATION DROP	WELDING BOOTH	REXARC - MODEL 2-04-1604AC									
DWH-1	INSTANTANEOUS DOMESTIC WATER HEATER	CULINARY CLOSET C124A	NAVLEN NPE-240	5.8 GPM @ 67 DEG. T.R.			.35 MAX	120		1	3" INTAKE - 3" EXHAUST FLUE	
ETMV-1	EMERGENCY THERMOSTATIC MIXING VALVE	VARIOUS LOCATIONS	GUARDIAN G6040	20 GPM @ 7 PSI PRESSURE DROP	1" INLETS / 1-1/4" OUTLETS	-	-	-	-	-		
EXT-1	DOMESTIC HOT WATER EXPANSION TANK	CULINARY CLOSET C124A	AMTROL MODEL NO. ST-12-C	3.2 GAL. MAX ACCEPT VOLUME 6.4 GAL. TOTAL VOLUME	A.S.M.E. RATED - SECTION VIII	-	-	-	-	-		
FOST-1	FUEL OIL STORAGE TANK MODEL HT-1069	EXTERIOR - ADJACENT TO EXISTING NATURAL GAS ENCLOSURE	HIGHLAND TANK	750 GALLONS							ABOVE GROUND, U.L. 142 LISTED, DOUBLE-WALL FUEL OIL STORAGE TANK	
HR-1	CEILING - STRUCTURE MOUNTED COMPRESSED AIR HOSE REEL	AUTOMOTIVE AND ADVANCED AUTOMOTIVE LABS	MACNAUGHT M3D-SSAW-5050								PROVIDE 50' OF FLEXIBLE SUPPLY HOSE WITH QUICK-DISCONNECT FITTING	
HR-2	CEILING - STRUCTURE MOUNTED ENGINE OIL / ANTI-FREEZE DISTRIBUTION HOSE REEL	AUTOMOTIVE AND ADVANCED AUTOMOTIVE LABS	MACNAUGHT M3D-SSCO-5050								PROVIDE 50' OF FLEXIBLE SUPPLY HOSE; PROVIDE OIL GUN	
HWCP-1	HOT WATER RETURN PUMP	CULINARY CLOSET C124A	BELL AND GOSSETT MODEL NO. PL-30B	2 GPM @ 24' T.D.H.	ALL BRONZE CONSTRUCTION	1/12	-	120	-	1		
ODP-1	ENGINE OIL DRUM PUMP	AUTOMOTIVE LABS	MACNAUGHT R-SERIES R300S-01		AIR OPERATED OIL PUMP; MOUNT TO OIL DRUM						UNIT SUPPLIED WITH IN-LINE AIR LUBRICATOR; PROVIDE 5 MICRON AIR FILTER FOR AIR INLET TO PUMP	
OVS-1	UNDERGROUND OIL-WATER SEPARATOR	EXTERIOR OF AUTOMOTIVE LAB	HIGHLAND TANK - MODEL UL-HTC-H-1000-HG-SW	1000 GALLON - 100 GPM FLOW RATE	PROVIDE SUBMERSIBLE OIL PUMP AND SENSOR EQUIPMENT - PROVIDE WITH HIGH-LINK LEVEL SHIELD - HT-6117 'P' SERIES, WIRELESS	-	-	208	-	3	PROVIDE AND MOUNT PUMP CONTROLLER ON EXTERIOR WALL. PROVIDE NECESSARY CONDUIT FOR WIRING TO/FROM THE OVS	
SOM-AR	ARGON SWITCHOVER MANIFOLD	EXTERIOR CYLINDER STORAGE AREA	REXARC - MODEL 4-04-0136HPA-8	200 PSIG DELIVERY PRESSURE; 550 SCFH								
SOM-AR/CO2	ARGON/CO2 MIX SWITCHOVER MANIFOLD	EXTERIOR CYLINDER STORAGE AREA	REXARC - MODEL 4-04-013HPAC-8	200 PSIG DELIVERY PRESSURE; 550 SCFH								
SP-1	WASTE WATER SAMPLING PORT	EXTERIOR NORTH SIDE OF CULINARY LAB	SCHIER - MODEL SV10		PROVIDE SCHIER FIELD CUT RISER FCR10						4" INLET / OUTLET SIZE	
WOCT-1	WASTE OIL / ANTI-FREEZE CONTAINMENT TANK	EXTERIOR OF AUTOMOTIVE LABS	HIGHLAND TANK - 500 GALLON, 48" DIA. AG DW HORIZONTAL SPLIT-TANK	250 GALLON FOR EACH SIDE - TOTAL 500 GALLON STORAGE	DOUBLE-WALL, ABOVEGROUND, UL 142 LISTED - SET IN DEPRESSURED CONCRETE CONTAINMENT PIT						PROVIDE WITH HIGH-LINK LEVEL SHIELD - HT-6117 'P' SERIES, WIRELESS	



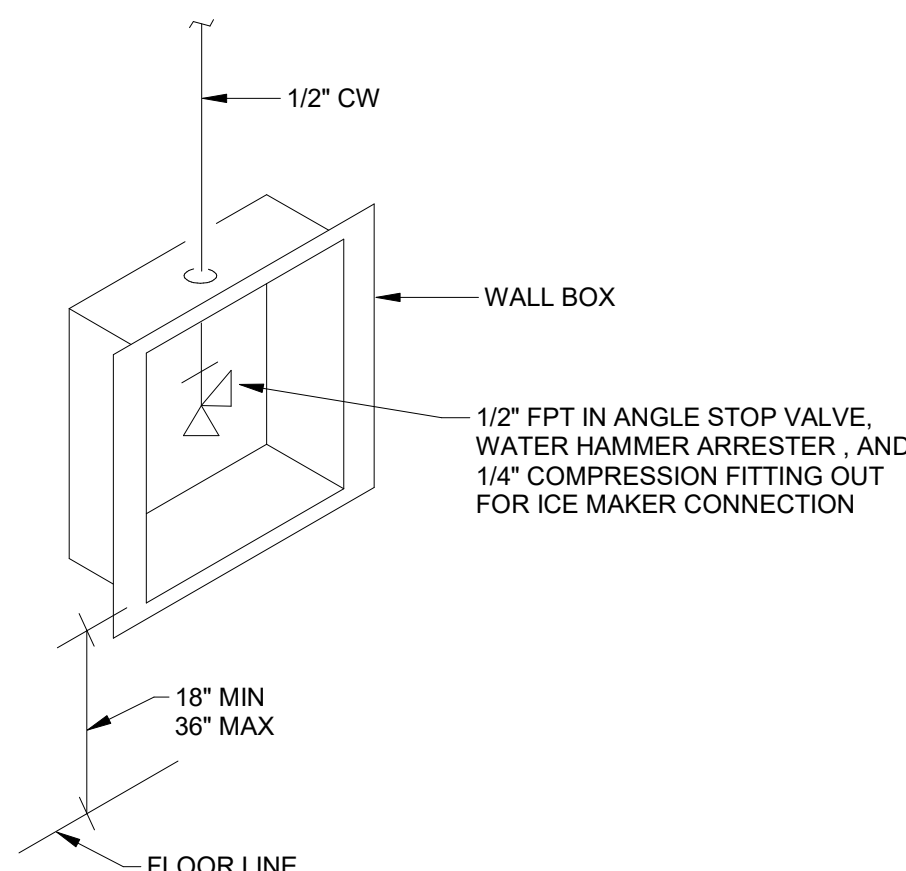
1 EXTERIOR CLEANOUT DETAIL

N.T.S.



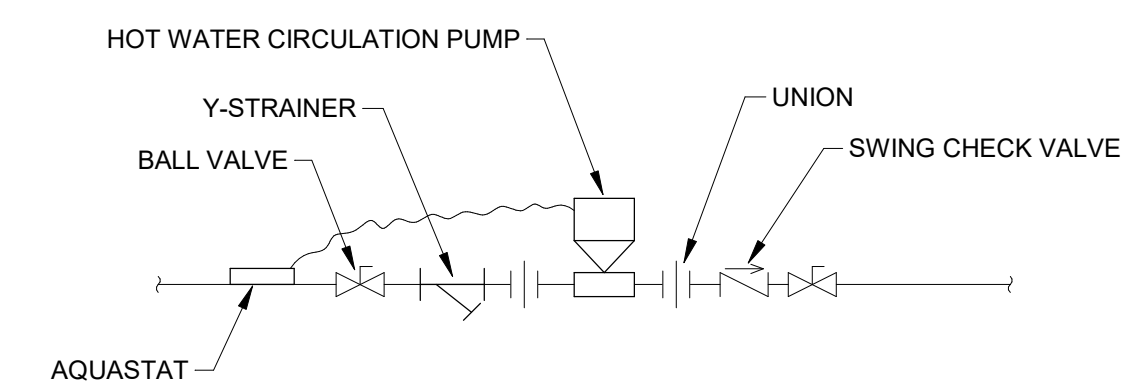
2 HWR BALANCING STATION DETAIL

N.T.S.



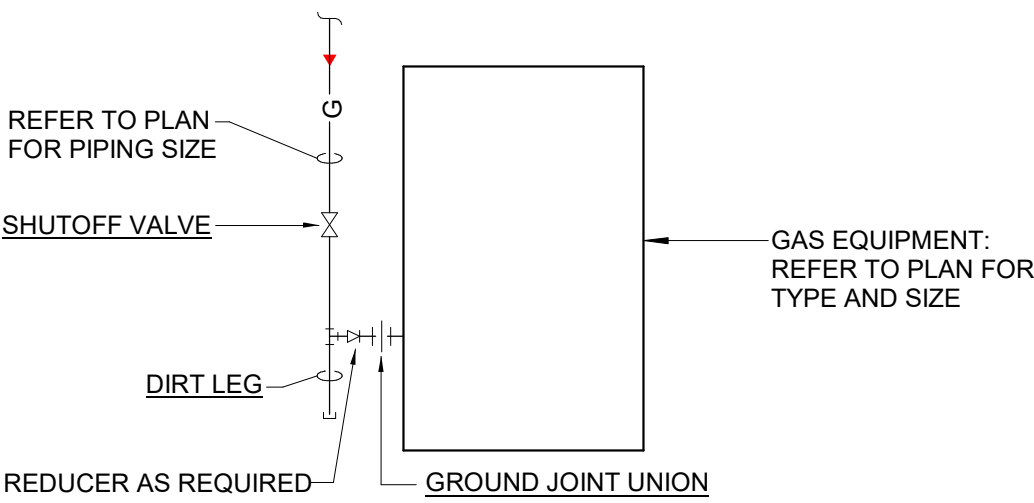
5 ICE MAKER BOX DETAIL

N.T.S.



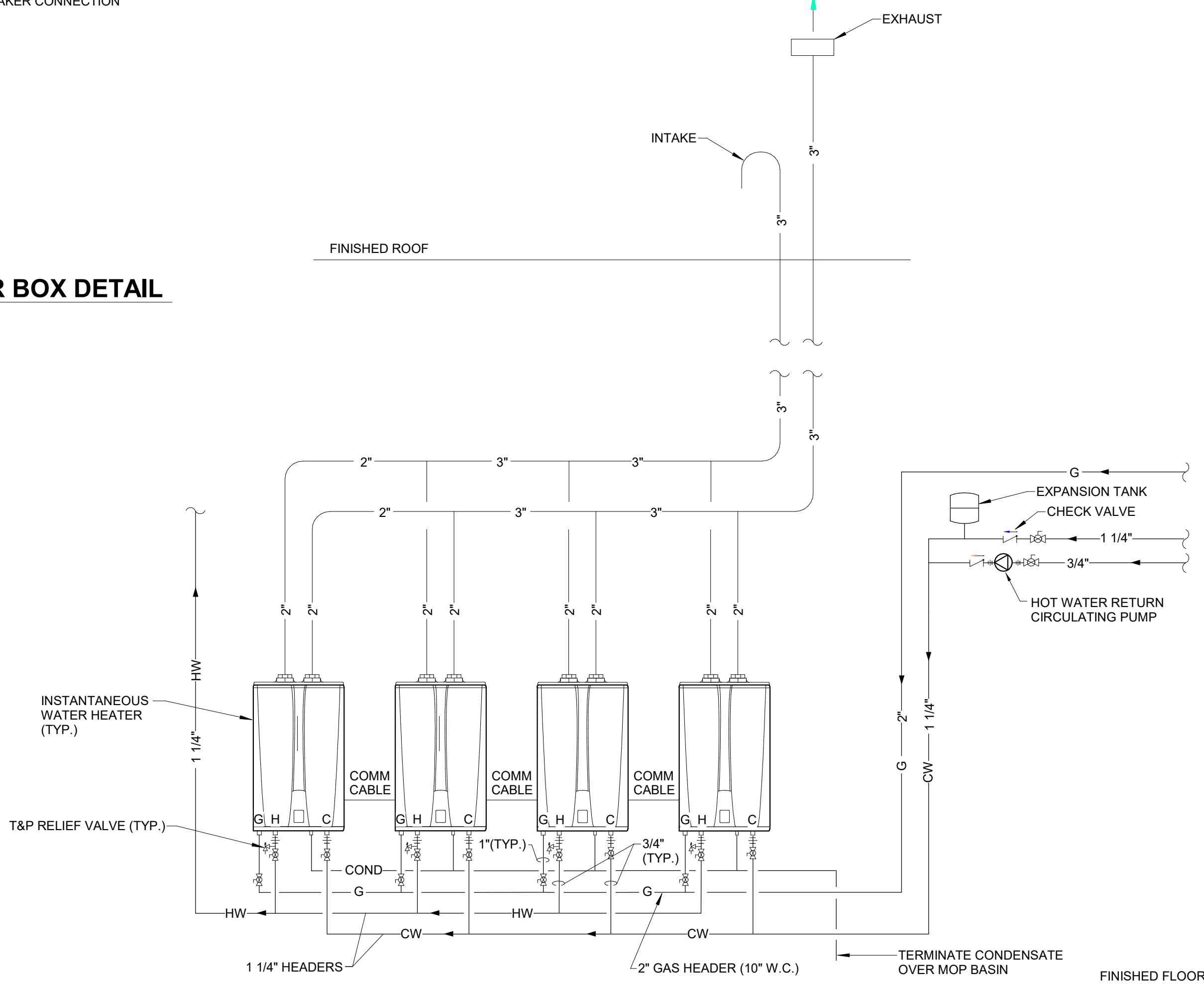
3 HWR PUMP PIPING DIAGRAM

N.T.S.



4 GAS DIRT LEG PIPING DETAIL

N.T.S.



6 WATER HEATER PIPING DETAIL
3 (INSTANTANEOUS GAS-FIRED)

N.T.S.

WELDING GAS PIPING SPECIFICATION:

WELDING GAS PIPING - ARGON AND CARBON DIOXIDE

- A. Hard Copper Tube: ASTM B88, Type K or L water tube, drawn temper
- Cast-Copper Solder-Joint Fittings: ASME B16.22, pressure fittings.
 - Wrought-Copper Solder-Joint Fittings: ASME B16.22, wrought-copper pressure fittings.
 - Copper Unions: MSS SP-125, cast-copper-alloy, hexagonal stock body, with ball and socket, metal-to-metal seating surfaces, and solder-joint or threaded ends.

CARMEL HIGH SCHOOL POLYTECHNIC ADDITION AND RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



ARCHITECT

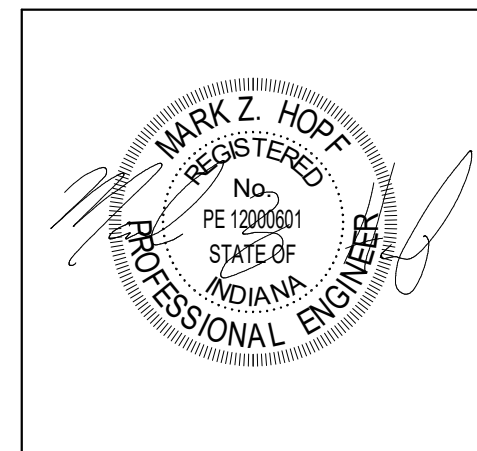
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CONSTRUCTION DOCUMENTS



DRAWN BY: JE

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

PLUMBING SCHEDULES AND
DETAILS

P3.01

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS

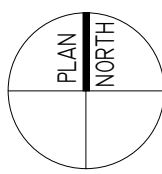


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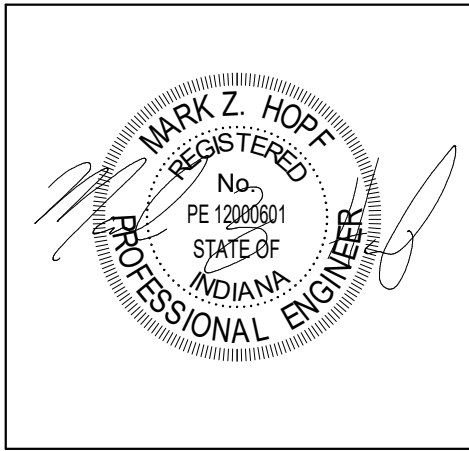


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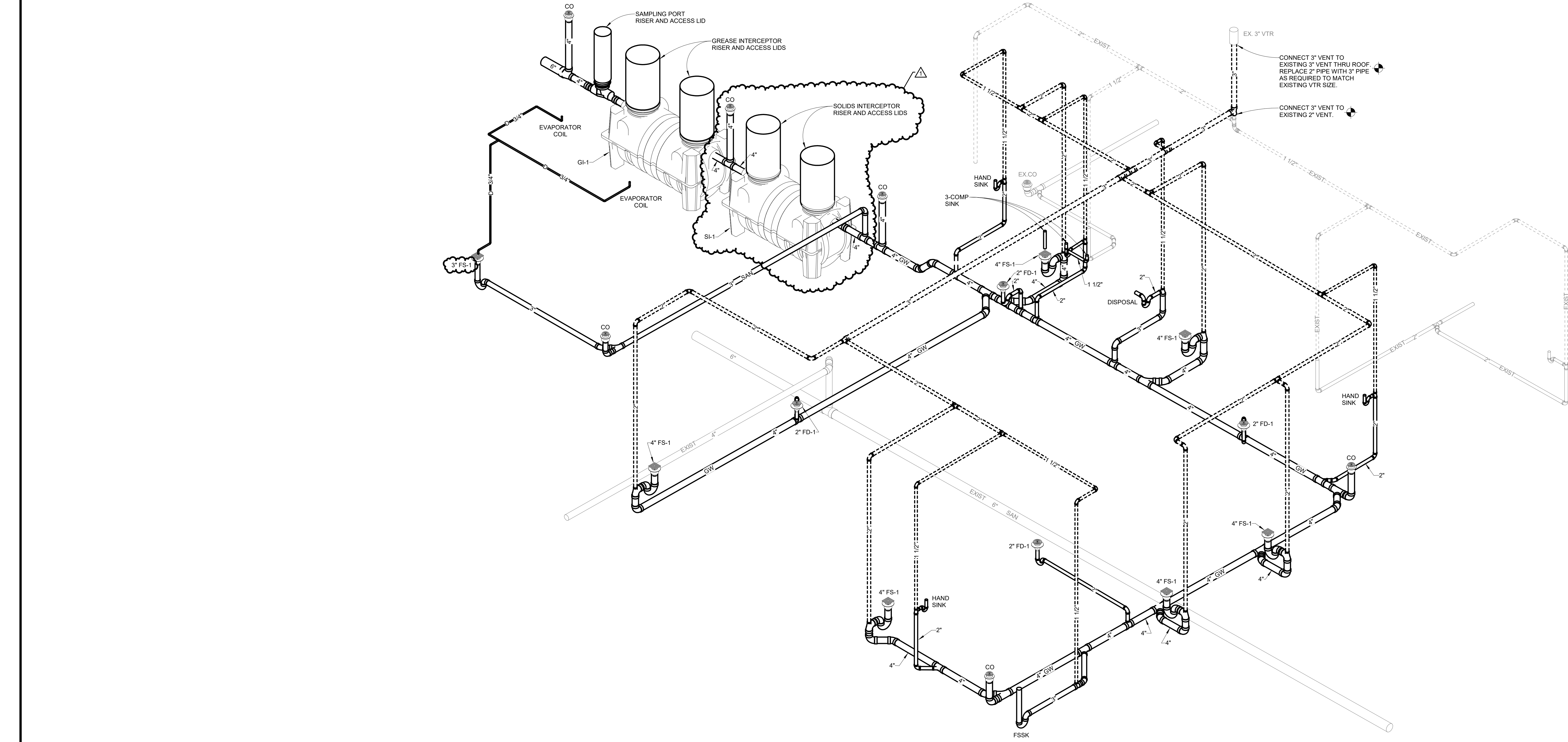


DRAWN BY: JE
PROJECT NUMBER: 221165.01
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

PLUMBING ISOMETRICS

P3.02



1 CULINARY LAB WASTE AND VENT ISOMETRIC
N.T.S.

CARMEL HIGH SCHOOL POLYTECHNIC ADDITION AND RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



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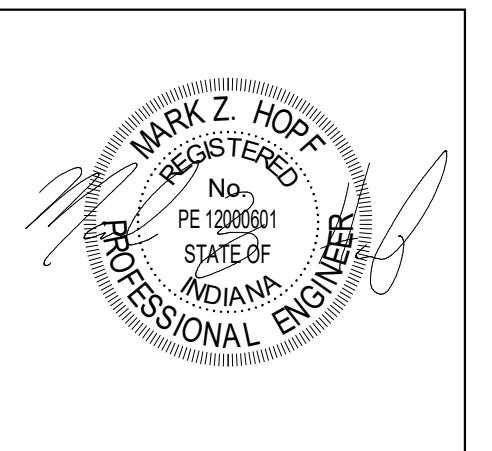
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NEW ADDITION

UNIT A

KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: JE

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	08/21/2023

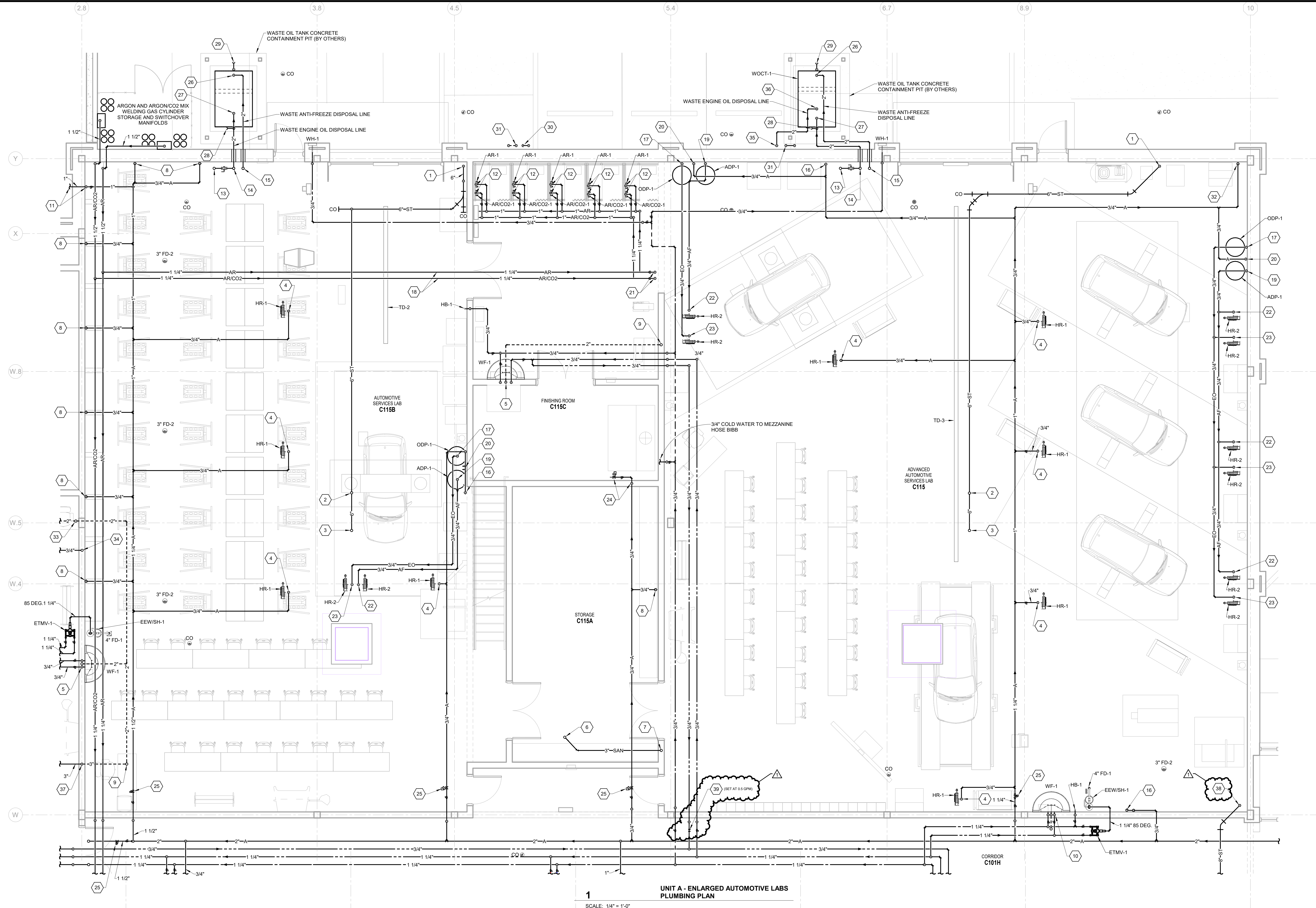
VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ENLARGED AUTOMOTIVE LABS
PLUMBING PLAN

P4.01



UNIT A - ENLARGED AUTOMOTIVE LABS
PLUMBING PLAN

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

ENLARGED AUTOMOTIVE LABS PLAN NOTES

- 6" STORM DOWN TO BELOW SLAB. PROVIDE CLEANOUT AT BASE OF RISER.
- 6" STORM FROM ROOF DRAIN ABOVE.
- 6" STORM FROM OVERFLOW ROOF DRAIN ABOVE.
- 3/4" COMPRESSED AIR DROP TO HOSE REEL. PROVIDE SHUTOFF VALVE PRIOR TO CONNECTION TO HOSE REEL.
- 3/4" HOT AND COLD WATER DOWN. 2" WASTE DOWN TO BELOW SLAB, 2" VENT UP.
- 3/4" WASTE WITH DEEP SEAL T-RAP FROM FLOOR DRAIN ABOVE.
- 3" WASTE DOWN TO BELOW SLAB, 2" VENT UP TO 3" VENT THRU ROOF.

ENLARGED AUTOMOTIVE LABS PLAN NOTES

- 3/4" COMPRESSED AIR DOWN ALONG FACE OF WALL TO SHUTOFF VALVE AND QUICK DISCONNECT AIR HOSE FITTING.
- 2" VENT UP TO 3" VENT THRU ROOF.
- 1" COMPRESSED AIR DROP ALONG WALL. ROUTE THRU EXTERIOR WALL AND EXTEND TO WELDING UNIT. PROVIDE SHUTOFF VALVE, UNION AND MAKE FINAL CONNECTION AS REQUIRED. SEAL WALL PENETRATION WEATHTIGHT.
- 3/4" ARGON AND ARGON/CO2 MIX SUPPLY PIPING DOWN TO WELDING BOOTH GAS OUTLETS. COORDINATE FINAL LOCATION AND ARRANGEMENT WITH OWNER.
- 12" DIA. OIL FILTER DRAIN FUNNEL WITH MESH SCREEN AND CLOSING TOP. 2" DRAIN.

ENLARGED AUTOMOTIVE LABS PLAN NOTES

- 6" DIA. OPEN FUNNEL FOR WASTE OIL DISPOSAL. 2" DRAIN DOWN AND OUT TO USED OIL CONTAINMENT TANK. SEAL WALL PENETRATION WEATHTIGHT.
- 6" DIA. OPEN FUNNEL FOR WASTE ANTI-FREEZE DISPOSAL. 2" DRAIN DOWN AND OUT TO USED ANTI-FREEZE CONTAINMENT TANK. SEAL WALL PENETRATION WEATHTIGHT.
- 3/4" COMPRESSED AIR DOWN INTO 3" CONDUIT TO BELOW SLAB. 3" CONDUIT DOWN TO BELOW SLAB. SEAL CONDUIT OPENING AS REQUIRED. PROVIDE SHUTOFF VALVE AND AIR PRESSURE REGULATOR AT 4'-0" A.F.F.
- CONNECT 3/4" FLEXIBLE HOSE TO DRUM PUMP OUTLET. EXTEND FLEXIBLE HOSE TO ENGINE OIL DISTRIBUTION PIPE CONNECTION AT WALL. 3/4" ENGINE OIL UP.
- CONNECT 3/4" FLEXIBLE HOSE TO DRUM PUMP OUTLET. EXTEND FLEXIBLE HOSE TO ENGINE OIL DISTRIBUTION PIPE CONNECTION AT WALL. 3/4" ENGINE OIL UP.
- 12" DIA. OIL FILTER DRAIN FUNNEL WITH MESH SCREEN AND CLOSING TOP. 2" DRAIN.

ENLARGED AUTOMOTIVE LABS PLAN NOTES

- CONNECT 3/4" FLEXIBLE HOSE TO DRUM PUMP OUTLET. EXTEND FLEXIBLE HOSE TO ANTI-FREEZE DISTRIBUTION PIPE CONNECTION AT WALL. 3/4" ANTI-FREEZE UP.
- 3/4" COMPRESSED AIR DOWN ALONG WALL. TERMINATE WITH AIR PRESSURE REGULATOR AND SHUTOFF VALVE. EXTEND 1/2" COMPRESSED AIR TO ENGINE OIL AND ANTI-FREEZE DRUM PUMPS. PROVIDE "STOP" VALVE COMPRESSED AIR COCK PRIOR TO AIR CONNECTION. REFER TO DRUM PUMP MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
- 1 1/4" WELDING GAS DOWN THRU MEZZANINE FLOOR. ROUTE PIPING TO WELDING BOOTH. KEEP PIPING AS HIGH AS POSSIBLE TO UNDERSIDE OF MEZZANINE.
- 3/4" ANTI-FREEZE DOWN TO HOSE REEL.
- ROUTE WELDING GAS PIPING UP AND OVER MEZZANINE. KEEP PIPING AS HIGH AS POSSIBLE.
- 3/4" ENGINE OIL DOWN TO HOSE REEL.

ENLARGED AUTOMOTIVE LABS PLAN NOTES

- 3/4" COMPRESSED AIR DOWN IN WALL. TURN OUT INTO PAINT BOOTH AT 48" A.F.F. PROVIDE SHUTOFF VALVE, 3-STAGE AIR DRYING SYSTEM WHICH INCLUDES A PARTICULATE FILTER, COALESCING FILTER, DESICCANT DRYER AND AIR REGULATOR EQUAL TO NANPU FRP44. CONNECT EQUIPMENT AND PIPING COMPLETE AS REQUIRED TO ACCOMMODATE PAINT BOOTH SPRAY GUN CONNECTION POINT.
- AIR PRESSURE REGULATOR. SET OUTLET PRESSURE AT 100 PSIG.
- 2" WASTE ANTI-FREEZE DOWN INTO CONTAINMENT TANK. MAKE FINAL CONNECTION AS REQUIRED.
- 2" WASTE ENGINE OIL DOWN INTO CONTAINMENT TANK. MAKE FINAL CONNECTION AS REQUIRED.
- 2" WASTE ENGINE OIL PUMP OUT PORT. COORDINATE PUMP OUT PORT CONNECTION COUPLING WITH OWNERS PUMP-OUT CONTRACTOR.
- 3/4" COLD WATER UP.

ENLARGED AUTOMOTIVE LABS PLAN NOTES

- 2" WASTE ANTI-FREEZE PUMP OUT PORT. COORDINATE PUMP OUT PORT CONNECTION COUPLING WITH OWNERS PUMP-OUT CONTRACTOR.
- 2" VENT UP FROM BELOW GRADE. TERMINATE VENT WITH (2) 90 DEG. ELBOWS, TURNED DOWN WITH BUG SCREEN. TERMINATE AT +38" A.F.G. PROVIDE PIPE SUPPORT ATTACHED TO EXTERIOR WALL.
- 3" VENT UP FROM BELOW GRADE. TERMINATE VENT WITH (2) 90 DEG. ELBOWS, TURNED DOWN WITH BUG SCREEN. TERMINATE AT +38" A.F.G. PROVIDE PIPE SUPPORT ATTACHED TO EXTERIOR WALL.
- 3/4" COMPRESSED AIR DOWN ALONG FACE OF WALL TO SHUTOFF VALVE AND QUICK DISCONNECT AIR HOSE FITTING. PROVIDE POINT-OF-USE AIR PRESSURE REGULATOR.
- 2" VENT UP.
- 3/4" COLD WATER UP.

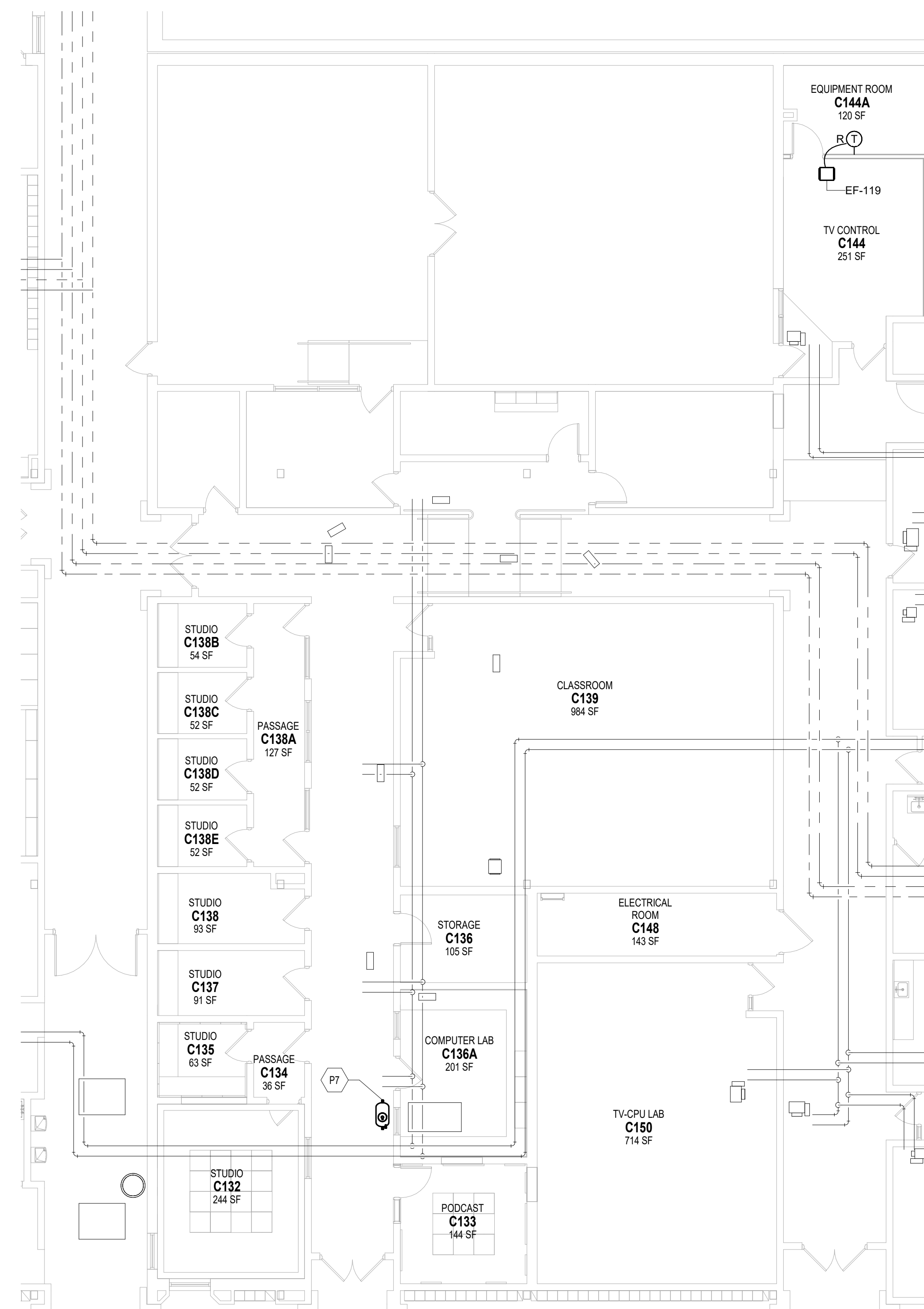
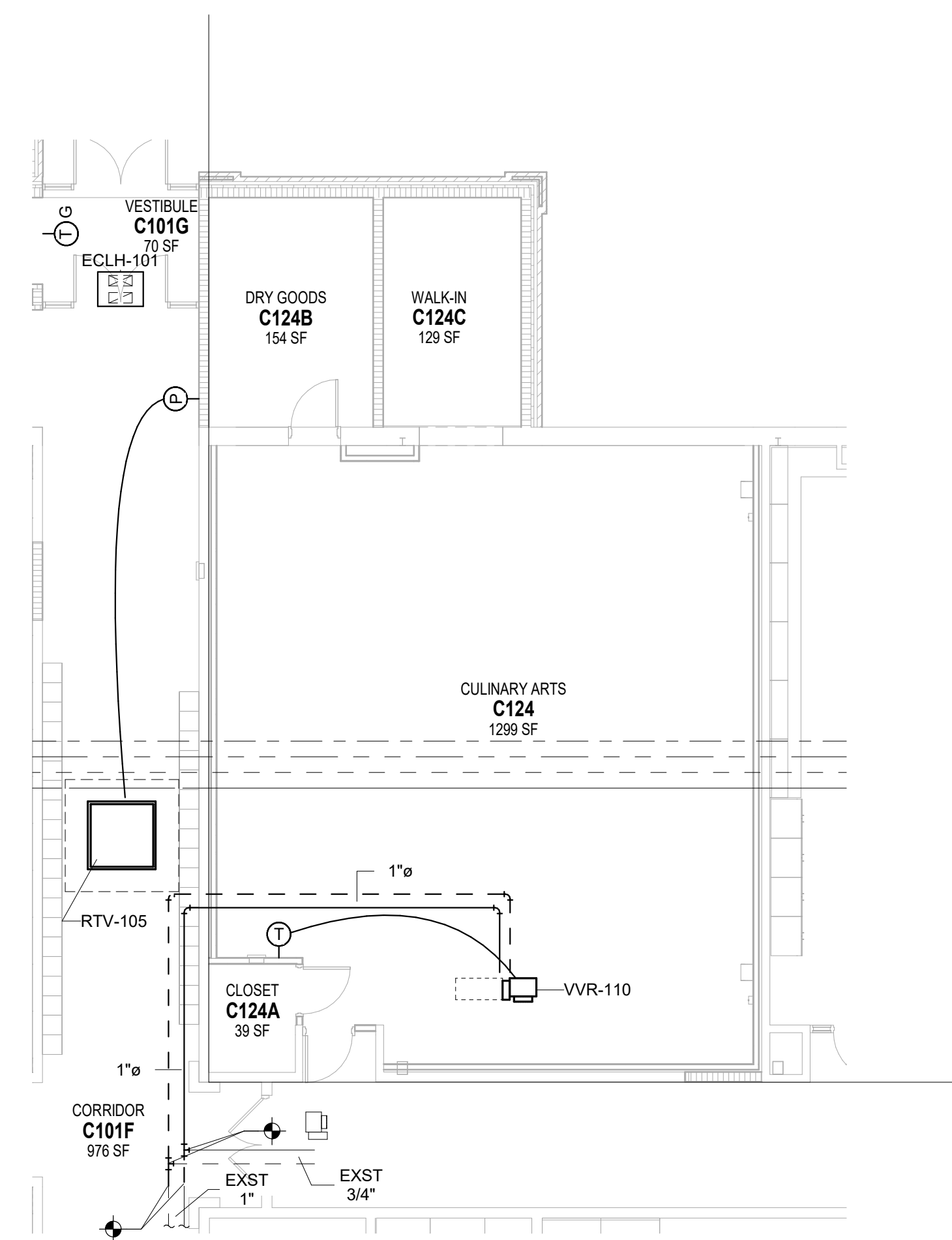
ENLARGED AUTOMOTIVE LABS PLAN NOTES

- 2" PUMPED WASTE OIL UP FROM BELOW GRADE.
- 2" PUMPED WASTE OIL DOWN IN TO CONTAINMENT TANK. MAKE FINAL CONNECTION AS REQUIRED.
- 3" WASTE DOWN, 3" VENT UP.
- 8" STORM DOWN TO BELOW SLAB. PROVIDE CLEANOUT AT BASE OF RISER.
- HOT WATER RETURN BALANCE STATION. REFER TO DETAIL ON DRAWING P3.01 FOR MORE INFORMATION.



M3.01

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED,
CONTACT THE ARCHITECT BEFORE PROCEEDING WITH
WORK



HVAC PIPING PLAN GENERAL NOTES

- A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
- B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
- C. EXPOSED PIPING, E.T.C. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
- D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR WALLS, ROOFS AND PARTS TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
- E. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

HVAC PIPING PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

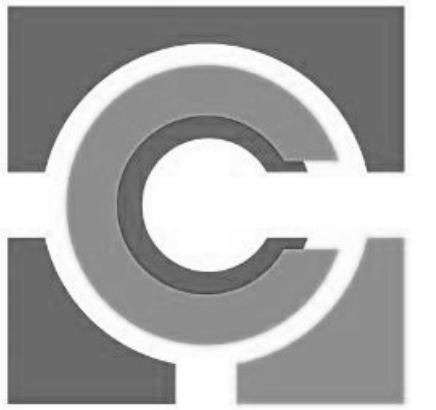
NO.	DESCRIPTION
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P7 PROVIDE NEW CONDENSATE PUMP EQUAL TO EXISTING REMOVED CONDENSATE PUMP. RECONNECT EXISTING CONDENSATE PIPING AS REQUIRED. RECONNECT TO EXISTING ELECTRICAL SERVICE.

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CARMEL HIGH SCHOOL POLYTECHNIC ADDITION AND RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS

ARCHITECT



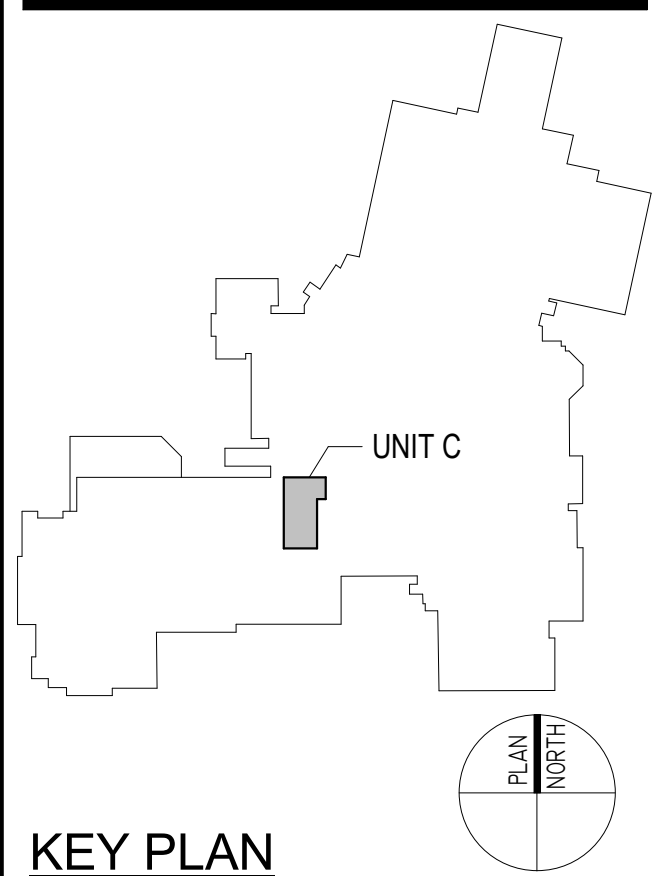
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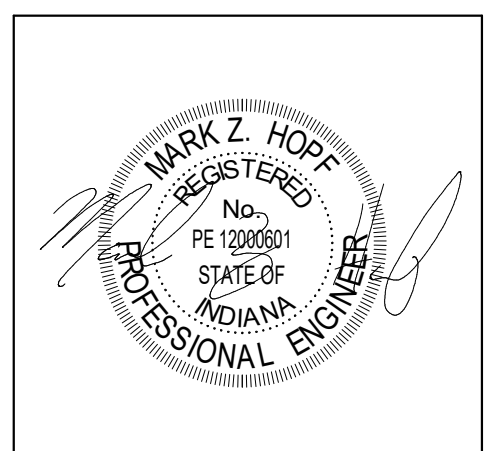
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KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: DRV

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 8/31/2023

[illegible]

**FIRST FLOOR HVAC PIPING PLAN -
UNIT C**

M3.02

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED,
CONTACT THE ARCHITECT BEFORE PROCEEDING WITH
WORK.

AIR HANDLING UNIT SCHEDULE																																		
MARK	FANS SUPPLY									COILS																MODEL NO.	NOTES							
	CFM	MIN. O.A. CFM	EXT. S.P.	TOTAL S.P.	BHP	HP	TYPE	RPM	ELEC.	COOLING COIL (CHILLED WATER)				PRE HEATING COIL						REHEAT HEATING COIL														
										EAT	LAT	COOLING LOAD SENS. TOTAL	GPM	EWT LWT	APD	WPD	EAT	LAT	MBH	GPM	EWT LWT	APD	WPD	EAT	LAT			MBH	GPM	EWT LWT	APD	WPD		
AHU-101	7,000	1,750	1.25	3.95	6.5	(2)3.8	ECM FAN ARRAY EC450 1X2.2	2,109	460/3	78.8 65.3	54.2 53.5	188.26	248.58	41.3	42.0 54.0	0.85	4.2	-	-	-	-	-	-	-	-	51.0	95.9	343.53	22.5	180.0 149.4	0.20	8.5	CAH016GDCM	1,2,3,4,5,6,7,8,9,10,11
AHU-102	6,000	2,100-6,000	1.25	3.34	4.8	(2)3.8	ECM FAN ARRAY EC450 1X2.2	1,906	460/3	90.0 74.0	53.5 53.0	239.64	418.34	68.3	42.0 54.2	0.23	10.7	0.0	47.2	305.60	19.8	180.0 148.9	0.20	7.16	45.0	95.7	332.43	21.9	180.0 149.6	0.12	7.4	CAH017GDCM	1,2,3,4,5,6,7,8,9,10,11	
AHU-103	7,000	2,450-7,000	1.25	3.63	6.0	(2)3.8	ECM FAN ARRAY EC450 1X2.2	2,044	460/3	90.0 74.0	53.6 53.2	278.97	483.56	79.7	42.0 54.1	0.31	6.9	0.0	47.3	356.80	23.1	180.0 148.9	0.32	9.33	45.0	97.8	404.31	25.5	180.0 148.3	0.13	2.2	CAH018GDCM	1,2,3,4,5,6,7,8,9,10,11	
NOTES																																		
1. UNITS SCHEDULED ARE AS MANUFACTURED BY DAIKIN.									5. INCLUDE FACTORY MOUNTED CONTROL AIR DAMPER(S).									10. HEATING COIL SHALL BE SELECTED WITH 100% WATER.									SUMMER:							
2. REFER TO PROJECT MANUAL SECTION 237313.									6. MAXIMUM FILTER FACE VELOCITY SHALL BE 500 FPM.									11. PROVIDE FACTORY MOUNTED CONVENIENCE OUTLET AND INTERNAL LIGHTS.									INDOOR: 75° db/60% RH							
3. REFER TO SHEET M5.06 FOR AIR HANDLING UNIT DETAILS.									7. TOTAL UNIT STATIC PRESSURE REFLECTS AVERAGE DIRTY FILTERS.																		OUTDOOR: 90.0° db/74.0° wb							
4. SUPPLY FAN MOTOR(S) - INTEGRATED DRIVE WITH MOTOR STARTER/DISCONNECT.									8. MAXIMUM COIL FACE VELOCITY SHALL BE 500 FPM.																		WINTER:							
									9. COOLING COIL SHALL BE SELECTED WITH 100% H2O.																		INDOOR: 70° db							
																											OUTDOOR: 0° db							

ROOFTOP VENTILATOR/INTAKE HOOD SCHEDULE							
MARK	THROAT LENGTH	THROAT WIDTH	BACKDRAFT DAMPER	RELIEF CONTROL DAMPER	CFM	DRIP PAN	MODEL
RTV-101	48"	48"	BAROMETRIC	YES	7,000	YES	FABRA HOOD - FGR
RTV-102	42"	42"	BAROMETRIC	YES	6,000	YES	FABRA HOOD - FGR
RTV-103	48"	48"	BAROMETRIC	YES	7,000	YES	FABRA HOOD - FGR
RTV-104	48"	48"	BAROMETRIC	YES	6,600	YES	FABRA HOOD - FGR
RTV-105	48"	48"	BAROMETRIC	YES	6,600	YES	FABRA HOOD - FGR
GENERAL NOTES							
1. REFER TO SPECIFICATION SECTION 237323.							
2. HOODS SCHEDULED ARE AS MANUFACTURED BY GREENHECK.							
3. HOODS TO BE MOUNTED ON MINIMUM 12" HIGH ROOF CURB.							
4. COLOR(S) TO BE SELECTED BY THE ARCHITECT/ENGINEER.							
5. TEMPERATURE CONTROL CONTRACTOR TO PROVIDE RELIEF CONTROL DAMPER FOR ALL ROOFTOP VENTILATORS UNLESS NOTED OTHERWISE.							

DIFFUSER, REGISTER, AND GRILLE SCHEDULE									
MARK	TYPE	EXAMPLE MANUFACTURER MODEL NO.	NECK SIZE	OVERALL SIZE L"xW"	MAX CORE/NECK VEL.(FPM)	MAX. CFM	MAX. NOISE CRITERIA	FRAME/MOUNTING	REMARKS
A	RETURN/AIR TRANSFER GRILLE	TITUS 355-FL	6"x6"	8"x8"	500	100	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
B	RETURN/AIR TRANSFER GRILLE	TITUS 355-FL	10"x10"	12"x12"	500	300	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
C	RETURN/AIR TRANSFER GRILLE	TITUS 355-FL	12"x12"	14"x14"	500	425	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
D	RETURN/AIR TRANSFER GRILLE	TITUS 355-FL	14"x14"	16"x16"	500	600	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
E	RETURN/AIR TRANSFER GRILLE	TITUS 355-FL	16"x16"	18"x18"	500	800	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
F	RETURN/AIR TRANSFER GRILLE	TITUS 355-FL	22"x22"	24"x24"	500	1250	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
G	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	5"	12"x12"	800	100	18	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
H	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	6"	12"x12"	800	150	21	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
I	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	6"	24"x24"	900	175	17	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
J	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	8"	24"x24"	900	300	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
K	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	10"	24"x24"	800	425	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
L	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	12"	24"x24"	800	625	23	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
M	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	14"	24"x24"	700	750	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
N	RETURN/AIR TRANSFER GRILLE	TITUS 355-FL	SEE FLOOR PLANS FOR SIZE	-	500	PER PLANS	20	DUCT OR SIDEWALL OR CEILING	FIXED 35(DEGREE), 1/2" SPACING DEFLECTION BLADES
O	HEAVY DUTY RETURN GRILLE	TITUS 33-RL	SEE FLOOR PLANS FOR SIZE	-	_____	PER PLANS	20	DUCT OR SIDEWALL	FIXED 38(DEGREE), 1/2" SPACING DEFLECTION BLADES
P	SIDEWALL SUPPLY DIFFUSER	TITUS 300-FL	SEE FLOOR PLANS FOR SIZE	-	300	PER PLANS	20	DUCT OR SIDEWALL	DOUBLE DEFLECTION, ADJUSTABLE BLADES 1/2" FRONT SPACING, 3/4" REAR SPACING
Q	HEAVY DUTY SUPPLY DIFFUSER	TITUS 300RL-HD	SEE FLOOR PLANS FOR SIZE	-	400	PER PLANS	20	DUCT OR SIDEWALL	DOUBLE DEFLECTION, ADJUSTABLE BLADES 1/2" FRONT SPACING, 3/4" REAR SPACING
R	LINEAR SLOT DIFFUSER	TITUS FL-20-HT	SEE FLOOR PLANS FOR SIZE	2-SLOT X 48"L	_____	PER PLANS	20	REFER TO REFLECTED CEILING PLAN	HIGH THROW WITH INSULATED PLENUM 2-2" SLOT WITH DIA" INLET
S	LINEAR SLOT DIFFUSER	TITUS FL-16-JT	SEE FLOOR PLANS FOR SIZE	1-SLOT X 48"L	_____	PER PLANS	20	REFER TO REFLECTED CEILING PLAN	JET THROW WITH INSULATED PLENUM 1-1" SLOT WITH DIA" INLET
T	SUPPLY DIFFUSER	TITUS 300-FS	SEE FLOOR PLANS FOR SIZE	-	450	PER PLANS	25	DUCT OR SIDEWALL	DOUBLE DEFLECTION, ADJUSTABLE BLADES 1/2" FRONT SPACING, 3/4" REAR SPACING
U	LINEAR SLOT DIFFUSER	TITUS FL-15-JT	SEE FLOOR PLANS FOR SIZE	1-SLOT X 48"L	_____	PER PLANS	20	REFER TO REFLECTED CEILING PLAN	JET THROW WITH INSULATED PLENUM 1-1.5" SLOT WITH DIA" INLET
V	SPIRAL SUPPLY DUCT GRILLE	TITUS S300-FL	SEE FLOOR PLANS FOR SIZE	-	450	PER PLANS	20	DUCT	DOUBLE DEFLECTION, ADJUSTABLE BLADES 3/4" SPACING, AIR SCOOP DEVICE
W	ROUND SUPPLY DIFFUSER	AIR CONCEPTS RDOW & RDOW-RD	SEE FLOOR PLANS FOR SIZE	-	550	PER PLANS	15	CEILING AND DUCT	ADJUSTABLE DOUBLE DEFLECTION VERTICAL AND HORIZONTAL
X	LINEAR SLOT DIFFUSER	TITUS FL-16-HT	SEE FLOOR PLANS FOR SIZE	1-SLOT X 48"L	_____	PER PLANS	20	REFER TO REFLECTED CEILING PLAN	HIGH THROW WITH INSULATED PLENUM 1-1.0" SLOT WITH DIA" INLET

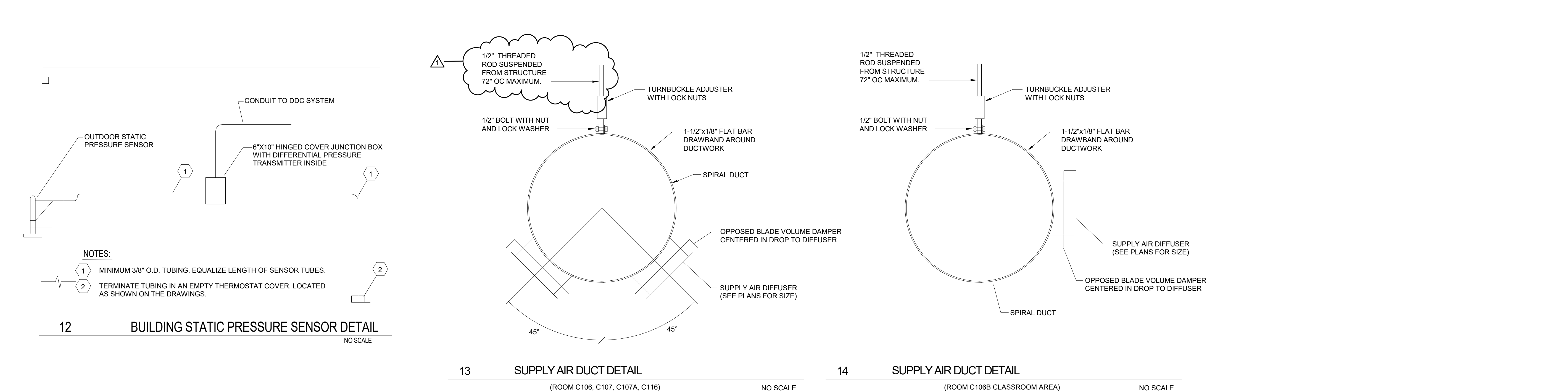
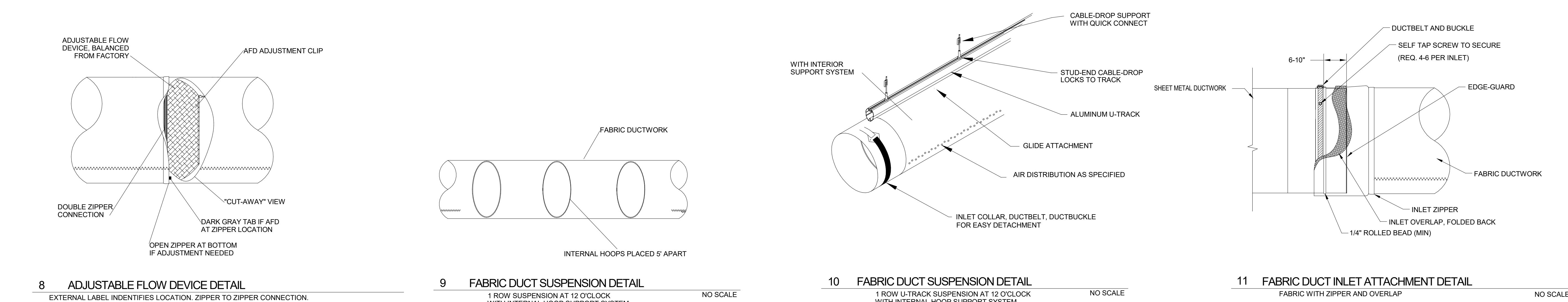
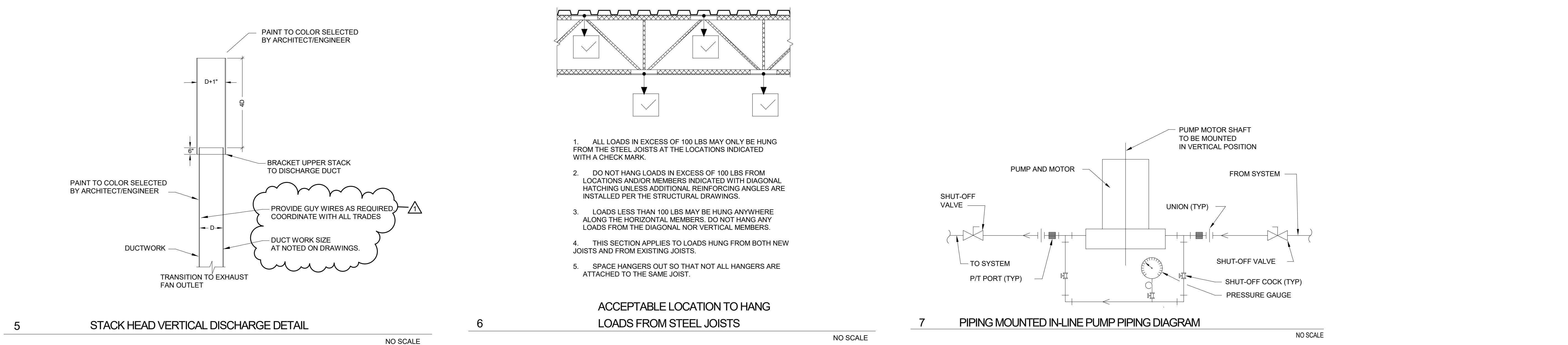
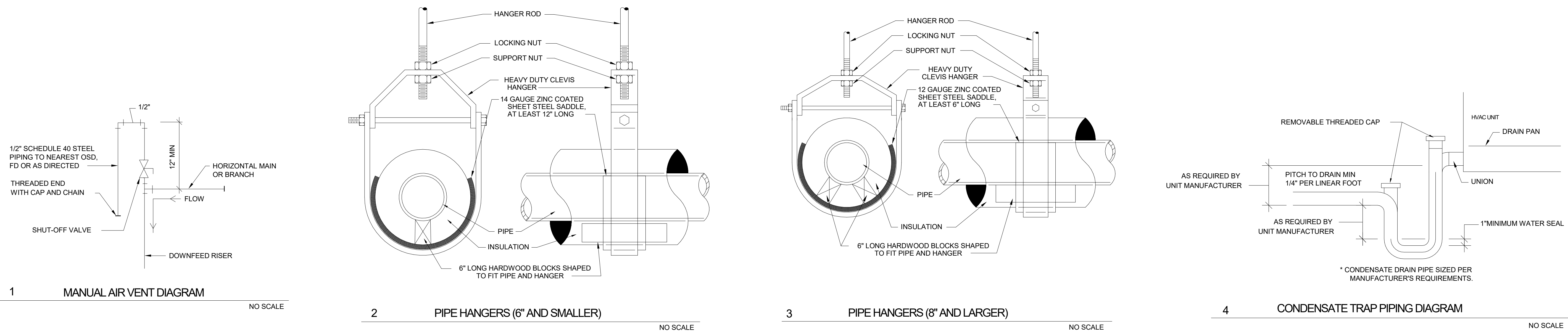
CABINET/PROPELLER UNIT HEATER SCHEDULE													
MARK	CFM	FAN SPEED (RPM)	HP	HEATING 180° EWT							ELEC SERV	MODEL NO.	NOTES
				MBH	EAT	LAT	GPM	WPD	LWT	COIL			
PUH-101	1,240	LOW	1/8	56.9	60	101.4	5.7	0.4	160.0	-	120/60/1	RH-108	6,7,8,9,13
PUH-102	1,240	LOW	1/8	56.9	60	101.4	5.7	0.4	160.0	-	120/60/1	RH-108	6,7,8,9,13
PUH-103	1,240	LOW	1/8	56.9	60	101.4	5.7	0.4	160.0	-	120/60/1	RH-108	6,7,8,9,13
PUH-104	310	LOW	1/30	9.1	60	86.6	0.9	0.2	160.0	-	120/60/1	RH-18	6,7,8,9,13
PUH-105	310	LOW	1/30	9.1	60	86.6	0.9	0.2	160.0	-	120/60/1	RH-18	6,7,8,9,13
PUH-106	310	LOW	1/30	9.1	60	86.6	0.9	0.2	160.0	-	120/60/1	RH-18	6,7,8,9,13
NOTES													
1. COLOR TO BE SELECTED BY ARCHITECT.				7. UNIT FURNISHED WITH ADJUSTABLE LOUVER FIN DIFFUSERS TO PROVIDE FOUR-DIRECTION AIR FLOW CONTROL.									
2. INCLUDE FACTORY MOUNTED DISCONNECT.				8. UNITS SCHEDULED ARE AS MANUFACTURED BY RITTLING.									
3. HORIZONTAL CEILING RECESSED UNIT.				9. REFER TO SPECIFICATION SECTION 238239.									
4. HORIZONTAL PARTIALLY CEILING RECESSED UNIT.				10. UNIT SCHEDULED WITH BOTTOM SUPPLY AND BACK RETURN.									
5. UNIT SCHEDULED WITH BOTTOM SUPPLY AND BOTTOM RETURN.				11. UNIT SCHEDULED WITH DUCTED SUPPLY AND BOTTOM RETURN. SUPPLY FAN MOTOR E.S.P. AT 0.15".									
6. SUPPORT HEATER FROM STRUCTURE ABOVE WITH MINIMUM OF TWO (2), 3/8" DIAMETER THREADED RODS.				12. UNIT SHALL BE PROVIDED WITH A CEILING TRIM KIT.									
				13. DISCONNECT BY THE ELECTRICAL CONTRACTOR.									

VEHICLE EXHAUST HOSE REEL SCHEDULE				
MARK	HOSE LENGTH	HOSE DIAMETER	APD	NOTES:
HR-101	30'-0"	5"	2.80	12.3
HR-102	30'-0"	5"	2.80	12.3
HR-103	30'-0"	5"	2.80	12.3
HR-104	30'-0"	5"	2.80	12.3
HR-105	30'-0"	5"	2.80	12.3
HR-106	30'-0"	5"	2.80	12.3
HR-107	30'-0"	5"	2.80	12.3
HR-108	30'-0"	5"	2.80	12.3
NOTES:				
1. REFER TO SPECIFICATION SECTION 238056.				
2. PROVIDE TAILPIPE ADAPTOR WITH VISE GRIP.				
3. MOUNT HOSE REEL PER MANUFACTURERS REQUIREMENTS.				

MAXIMUM ALLOWABLE SOUND LEVELS									
MARK	UNIT SOUND	63Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz
AHU-101	UNIT SUPPLY DISCHARGE	80	85	87	82	87	80	74	71
AHU-102	UNIT SUPPLY DISCHARGE	78	82	81	79	86	76	71	68
AHU-103	UNIT SUPPLY DISCHARGE	79	84	83	80	87	77	72	69

EXHAUST FAN SCHEDULE		
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CARMEL HIGH SCHOOL POLYTECHNIC ADDITION AND RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS

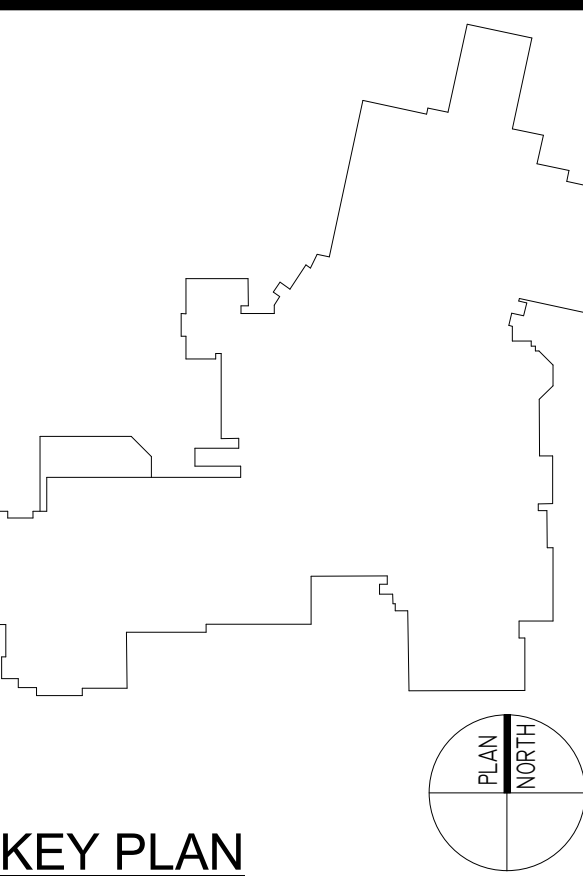


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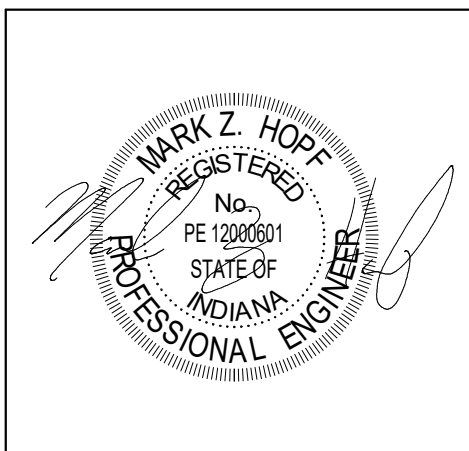
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350 E. NEW YORK ST. SUITE 300, INDIANAPOLIS, IN 46204

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KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: DRV
PROJECT NUMBER: 221165.01
PROJECT ISSUE DATE: 8/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

MECHANICAL DETAILS

M5.04

GENERAL NOTES - DEMOLITION

1. REFER TO ELECTRICAL SPECIFICANTS SECTIONS 280906 "ELECTRICAL DEMOLITION" FOR ADDITIONAL REQUIREMENTS THAT APPLY TO THIS DRAWING SHEET.
2. REMOVE ELECTRICAL EQUIPMENT COMPLETE WHERE REQUIRED TO BE REMOVED.
3. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED DUPLEX RECEPTACLES IN ALL ROOMS WHERE THE EXISTING CEILINGS ARE BEING REPLACED.

KEYNOTES

D1	REMOVE LIGHTING AND CONTROLS IN THIS SPACE. TIE BACK AND PROTECT CIRCUITS FOR REUSE.
D2	REMOVE EXISTING RECEPTACLE AT THIS LOCATION. TIE BACK AND PROTECT EXISTING CIRCUIT FOR REUSE.
D3	REMOVE EXISTING ELECTRICAL EQUIPMENT AND RECEPTACLES IN THIS AREA. TIE BACK EXISTING CIRCUITS FOR REUSE.
D5	REMOVE ANY ELECTRICAL DEVICES, CONDUIT AND WIRING IN PORTION OF WALL THAT IS TO BE DEMOLISHED. REMOVE CONDUIT AND WIRING BACK TO SOURCE COMPLETE.
D7	HYDRAULIC TRASH COMPACTOR MOTOR AND CONTROLS - DISCONNECT POWER AND SALVAGE MOTOR. DISCONNECT ALL ASSOCIATED COMPONENTS FOR RELOCATION. REMOVE EXISTING CONDUIT FROM EXTERIOR WALL SURFACE.
D8	DISCONNECT AND REMOVE BUSWAYS IN THIS SPACE. TIE BACK AND PROTECT CIRCUIT FOR REUSE. REUSE (2) OF THE 400A RATED BUSWAYS THAT ARE IN THE BEST CONDITION FOR BUSWAYS BWC107A AND BWC116 SHOWN ON NEW WORK PLANS. TURN THE OTHER BUSWAYS OVER TO THE OWNER.
D9	REMOVE DISCONNECTS AND/OR STARTERS AT THIS LOCATION. RELOCATE DISCONNECTS FOR EQUIPMENT TO REMAIN IF APPLICABLE.
D10	DISCONNECT AND REMOVE DATA RACK RECEPTACLES IN THIS SPACE. TIE BACK AND PROTECT CIRCUITS FOR REUSE IN THE NEW DATA ROOM AT THIS LOCATION.
D12	DISCONNECT AND REMOVE CONDUIT AND WIRING FOR MECHANICAL EQUIPMENT BACK TO SOURCE.
D13	EXISTING FIRE ALARM STRIKES IN THIS SPACE ARE TO REMAIN.
D17	DISCONNECT AND REMOVE PANEL SPL5. CONNECT BRANCH CIRCUITS TO REMAIN TO AVAILABLE SPARES IN PANELS SERVING THE AREAS THE CIRCUITS ARE WITHIN.



CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



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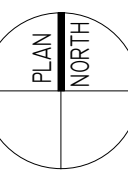
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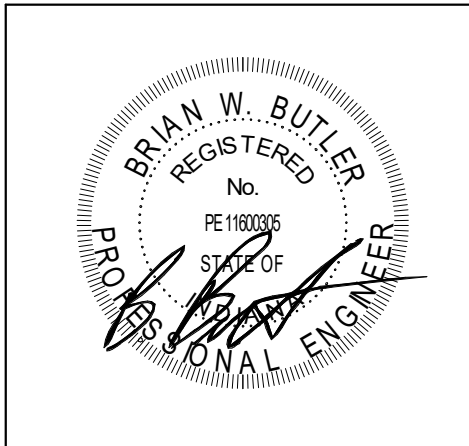
NEW ADDITION

UNIT A



KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: AMN

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

UNIT A - ELECTRICAL DEMOLITION
PLAN

ED.01

UNIT A - ELECTRICAL DEMOLITION PLAN

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

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS

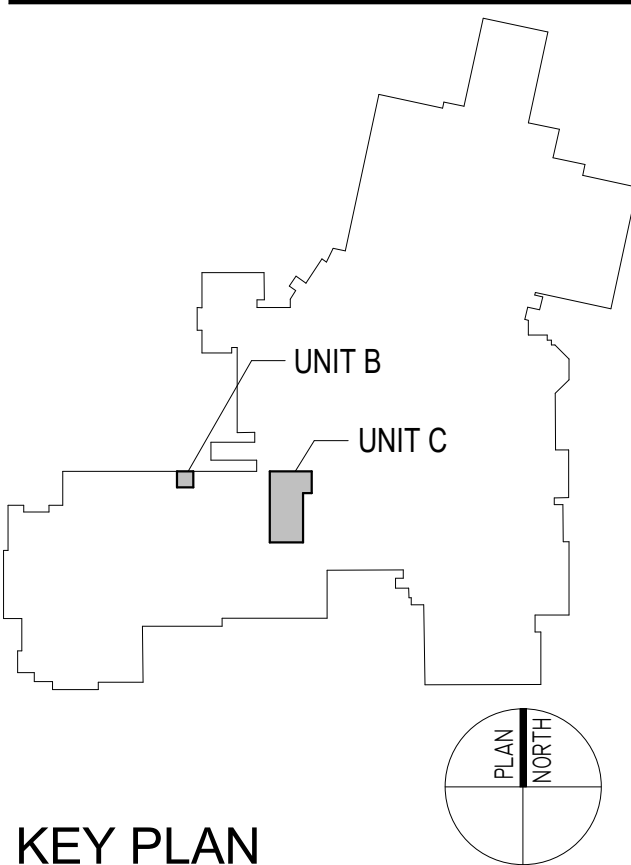


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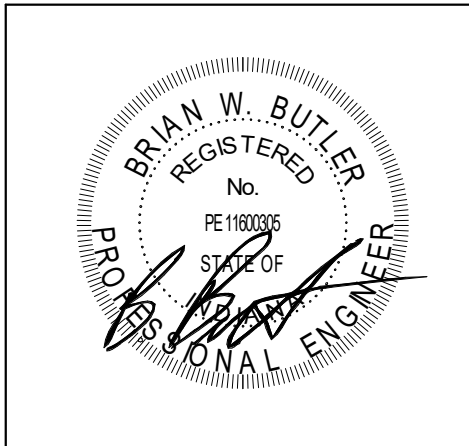
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KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: AMN

PROJECT NUMBER: 221165.01
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

UNIT B AND C - ELECTRICAL
DEMOLITION PLANS

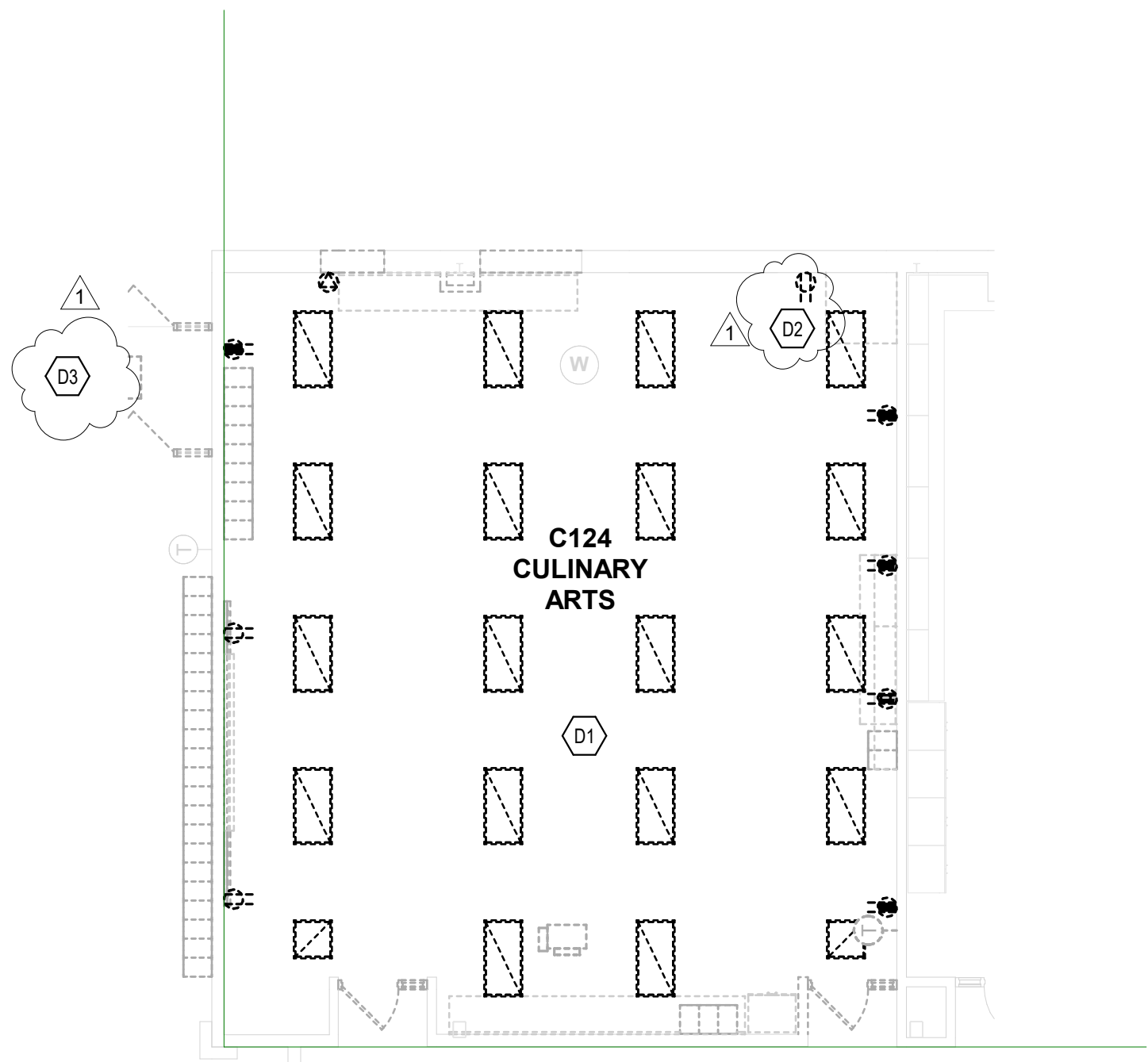
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GENERAL NOTES - DEMOLITION

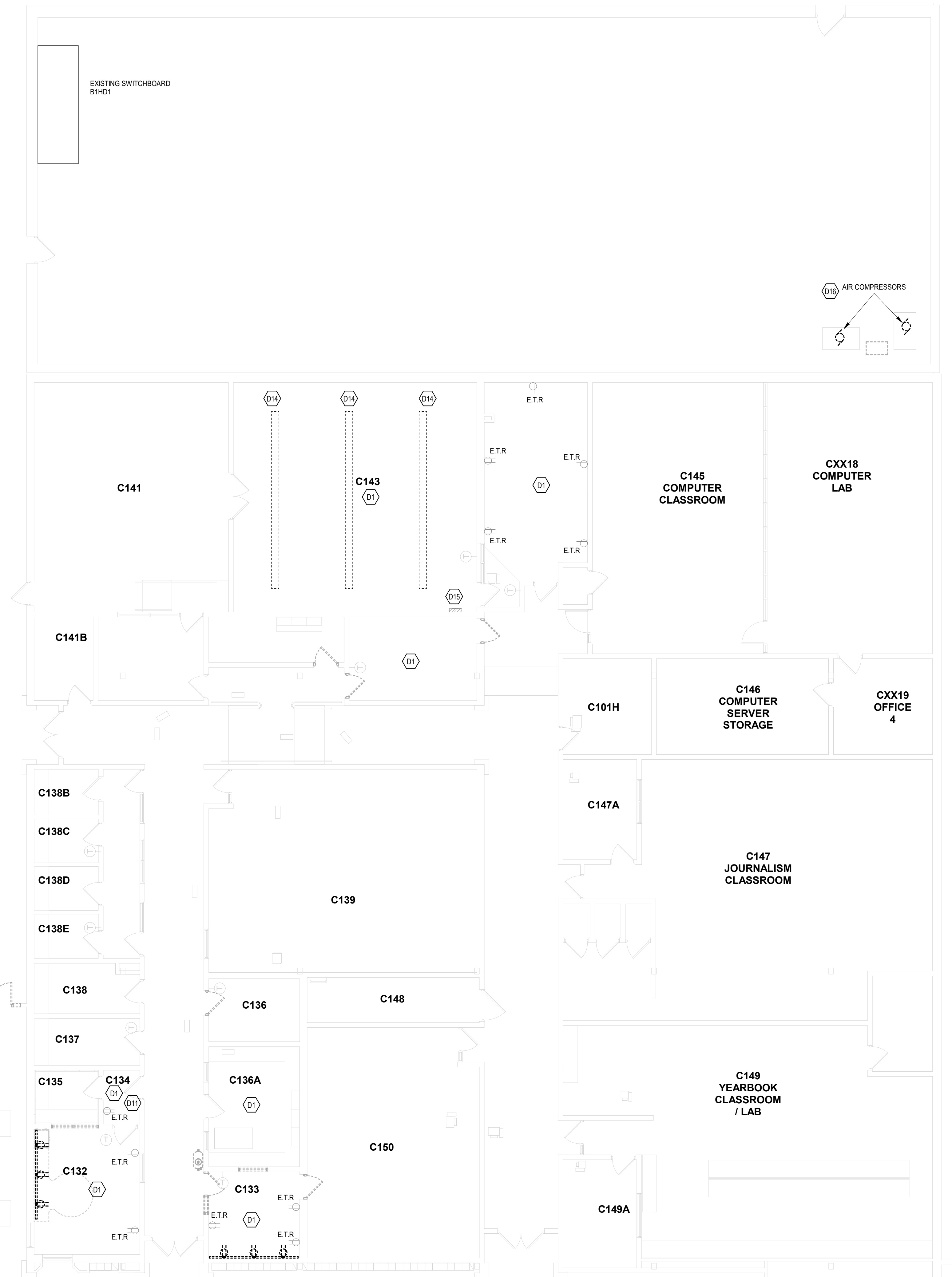
- REFER TO ELECTRICAL SPECIFICANTS SECTIONS 200000 "ELECTRICAL DEMOLITION" FOR ADDITIONAL REQUIREMENTS THAT APPLY TO THIS DRAWING SHEET.
- REMOVE ELECTRICAL EQUIPMENT COMPLETE WHERE REQUIRED TO BE REMOVED.
- DISCONNECT AND REMOVE EXISTING CEILING MOUNTED DUPLEX RECEPTACLES IN ALL ROOMS WHERE THE EXISTING CEILING IS BEING REPLACED.

KEYNOTES

D1	REMOVE LIGHTING AND CONTROLS IN THIS SPACE. TIE BACK AND PROTECT CIRCUITS FOR REUSE.
D2	REMOVE EXISTING RECEPTACLE AT THIS LOCATION. TIE BACK AND PROTECT EXISTING CIRCUIT FOR REUSE.
D3	REMOVE EXISTING ELECTRICAL EQUIPMENT AND RECEPTACLES IN THIS AREA. TIE BACK EXISTING CIRCUITS FOR REUSE.
D11	REMOVE EMPTY SURFACE MOUNTED BOX AND RACEWAY IN THIS ROOM.
D14	DISCONNECT AND REMOVE CEILING MOUNTED RACEWAY. REMOVE WIRING BACK TO SOURCE. CONDUIT TO REMAIN FOR NEW RACEWAY AND WIRING.
D15	DISCONNECT AND REMOVE EXISTING PANEL C2 AT THIS LOCATION. TIE BACK AND PROTECT ALL FEEDER AND BRANCH CIRCUITS FOR CONNECTION TO NEW PANEL AT THIS LOCATION.
D16	DISCONNECT AIR COMPRESSORS TO BE REMOVED. REMOVE DISCONNECT FOR AIR COMPRESSORS. TIE BACK AND PROTECT AIR COMPRESSOR CIRCUIT FOR REUSE.



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



UNIT C - ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

FIRE ALARM SYMBOLS		
SYMBOL	DESCRIPTION	MH
	ADDRESSABLE INTERFACE DEVICE	-
	HEAT DETECTOR, 190 DEGREES F FIXED TEMPERATURE (UNO), CEILING MOUNTED	CLG
	CARBON MONOXIDE DETECTOR, CEILING MOUNTED	CLG
	ROUND INDICATES CEILING MOUNTED, SQUARE INDICATES DUCT MOUNTED, PHOTOELECTRIC SMOKE DETECTOR	
	FIRE ALARM ANNUNCIATION PANEL	56"
	FIRE ALARM CONTROL PANEL	-
	AUDIBLE AND VISIBLE NOTIFICATION APPLANCE (HORN/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG
	VOICE/ALARM COMMUNICATION AUDIBLE AND VISIBLE NOTIFICATION DEVICE (SPEAKER/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG
	VISIBLE NOTIFICATION APPLANCE (STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG
	VOICE/ALARM COMMUNICATIONS LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG
	MANUAL FIRE ALARM PULL STATION, AND AUDIBLE AND VISIBLE NOTIFICATION APPLANCE ABOVE (HORN/STROBE), WALL MOUNTED	44"/80"
	MANUAL FIRE ALARM PULL STATION, WALL MOUNTED	44"
	VOICE/ALARM COMMUNICATIONS HORN TYPE LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG
	SURFACE FIRE ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR
	SURFACE SECURITY ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR
	ELECTRONIC RELEASE DOOR CLOSER	-
	FIRE ALARM BELL, WALL MOUNTED, WEATHERPROOF WHERE EXTERIOR MOUNTED	96"
	POST INDICATOR VALVE TAMPER SWITCH	-
	SMOKE DAMPER ACTUATOR	-

POWER SYMBOLS		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO BOTTOM
	CONDUIT CONCEALED ABOVE CEILING OR IN WALL	-
	CONDUIT CONCEALED IN OR BELOW FLOOR, OR UNDER GROUND	-
	20 AMP, 125 VOLT, NEMA 5-20R DUPLEX RECEPTACLE WITH COMMON COVER PLATE MOUNTED VERTICALLY "H" TO BOTTOM (LETTERS) IN FRONT OF THE RECEPTACLE (LOAD TYPE, SEE BELOW. SINGLE LINE INDICATES HORIZONTAL MOUNTING, DOUBLE LINE INDICATE QUAD, DARK CENTER INDICATES ABOVE COUNTERTOP MOUNTING (4") NEMA 5-20R, UNO, CIRCUIT NUMBER (e.g. 1A1-1) ADJACENT TO THE SYMBOL, ON PLANS INDICATES PANELBOARD/CIRCUIT NUMBER SERVING RECEPTACLE, UNO	CLG
	COPY MACHINE	-
	COFFEE MAKER	-
	GROUND FAULT CIRCUIT INTERRUPTING TYPE MONITOR - 80" AFF	-
	MICROWAVE REFRIGERATOR - 48" AFF	-
	DUPLEX RECEPTACLE IN SURFACE MOUNTED "FS" TYPE CAST DEVICE BOX	-
	TAMPER RESISTANT DUPLEX RECEPTACLE WITH (2) USB PORTS UNDER COUNTER REFRIGERATOR	-
	VENDING MACHINE, FEED FROM 30 mA GFCI BREAKER IN PANELBOARD	-
	WALL MOUNTED VIDEO PROJECTOR, 80" AFF UNO	-
	ELECTRIC WATER COOLER, FEED FROM 30 mA GFCI BREAKER IN PANELBOARD	-
	WASHFONTAIN/LAVATORY, CONNECT TO NEAREST THROUGH FEED GFCI RECEPTACLE	-
	WASHING MACHINE, FEED FROM 30 mA GFCI BREAKER IN PANELBOARD	-
	WEATHER RESISTANT GFI DUPLEX RECEPTACLE WITH INUSE TYPE WEATHERPROOF COVER HINGED AT TOP	-
	20 AMP DUPLEX RECEPTACLE, FLUSH CEILING MOUNTED, NEMA 5-20R	CLG
	SINGLE STRAIGHT BLADE, WELDING RECEPTACLE, 50A, 125/250 VOLT, 3P, 4W, NEMA 14-50R	16"
	SPECIAL POWER RECEPTACLE, AMPS, VOLTS AND NEMA CONFIGURATION AS DERIVED ON PLANS BY CODED NOTE	16"
	SINGLE STRAIGHT BLADE, SPECIAL RECEPTACLE, 20A, 125/250 VOLT, 3P, 4W, NEMA 14-20R	16"
	30 AMP, 120 VOLT, SINGLE TWIST LOCK RECEPTACLE, UNO, NEMA L5-30R	16"
	20 AMP DUPLEX RECEPTACLE IN FLUSH FLOOR MOUNTED BOX, NEMA 5-20R, USE A CAST BOX AT GRADE LEVEL, USE A STAMPED STEEL BOX FOR UPPER FLOORS, REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	20 AMP DUPLEX RECEPTACLE IN FIRE RATED POKE-THRU FLOOR DECK, NEMA 5-20R, REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	HIGH CAPACITY FLOOR BOX WITH 4 DUPLEX RECEPTACLES, NEMA 5-20R, UNO FOR POWER AND DATA, REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	COMMUNICATIONS POWER POLE PRE-WIRED WITH 2 DUPLEX RECEPTACLES, WITH TWO X BOX ABOVE CEILING, REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	TWO 20 AMP DUPLEX RECEPTACLES IN BOX WITH COVER PLATE, PENDANT MOUNTED WITH 3/4" SJC CORD AND STRAIN RELIEF GRIPS	84"
	2 CHANNEL MULTIOUTLET SURFACE RACEWAY ASSEMBLY WITH DUPLEX RECEPTACLES AND DATA OUTLETS. SEE TECHNOLOGY DRAWINGS, QUANTITY AS SHOWN OR PER SPEC.	-
	SINGLE CHANNEL MULTIOUTLET SURFACE RACEWAY PRE-WIRED ASSEMBLY WITH SINGLE RECEPTACLES. QUANTITY PER SPEC.	-

GROUNDING CODED NOTES:

	GROUNDING ELECTRODE CONDUCTOR, BARE, TINNED, STRANDED, COPPER CONDUCTOR, (30 INCHES BELOW GRADE, MIN) (24 INCHES FROM FOUNDATION, MIN) FOR ELECTRICAL SERVICE OF 800 AMP OR LESS, UNO; 400 AMP OR LESS, UNO; 200 AMP OR LESS, UNO; 100 AMP OR LESS, UNO; 50 AMP OR LESS, UNO.
	GROUNDING CONDUCTOR, 2/0 AWG BARE, TINNED, STRANDED, COPPER CONDUCTOR.
	MAIN BONDING JUMPER PROVIDED BY MANUFACTURER AS PART OF LISTED AND LABELED SERVICE EQUIPMENT. IF NOT PROVIDED BY MANUFACTURER, PROVIDE #40 BARE, TINNED, STRANDED, COPPER CONDUCTOR.
	GROUNDING ELECTRODE CONDUCTOR, #40 AWG STRANDED, BARE, COPPER IN PVC CONDUIT.
	GROUNDING CONDUCTOR (NEUTRAL) (REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR SIZE).
	PROVIDE UL 467 LISTED COMPRESSION CONNECTORS, TWO-HOLE LUGS.
	EQUIPMENT BONDING JUMPER STRANDED, BARE, COPPER, <1/4" DIA USE #6, <1/4" DIA USE #8, <1/4" DIA USE #10, <1/4" DIA USE #12, <1/4" DIA USE #14, <1/4" DIA USE #16, <1/4" DIA USE #18, <1/4" DIA USE #20, <1/4" DIA USE #22, <1/4" DIA USE #24, <1/4" DIA USE #26, <1/4" DIA USE #28, <1/4" DIA USE #30, <1/4" DIA USE #32, <1/4" DIA USE #34, <1/4" DIA USE #36, <1/4" DIA USE #38, <1/4" DIA USE #40, <1/4" DIA USE #42, <1/4" DIA USE #44, <1/4" DIA USE #46, <1/4" DIA USE #48, <1/4" DIA USE #50, <1/4" DIA USE #52, <1/4" DIA USE #54, <1/4" DIA USE #56, <1/4" DIA USE #58, <1/4" DIA USE #60, <1/4" DIA USE #62, <1/4" DIA USE #64, <1/4" DIA USE #66, <1/4" DIA USE #68, <1/4" DIA USE #70, <1/4" DIA USE #72, <1/4" DIA USE #74, <1/4" DIA USE #76, <1/4" DIA USE #78, <1/4" DIA USE #80, <1/4" DIA USE #82, <1/4" DIA USE #84, <1/4" DIA USE #86, <1/4" DIA USE #88, <1/4" DIA USE #90, <1/4" DIA USE #92, <1/4" DIA USE #94, <1/4" DIA USE #96, <1/4" DIA USE #98, <1/4" DIA USE #100, <1/4" DIA USE #102, <1/4" DIA USE #104, 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CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

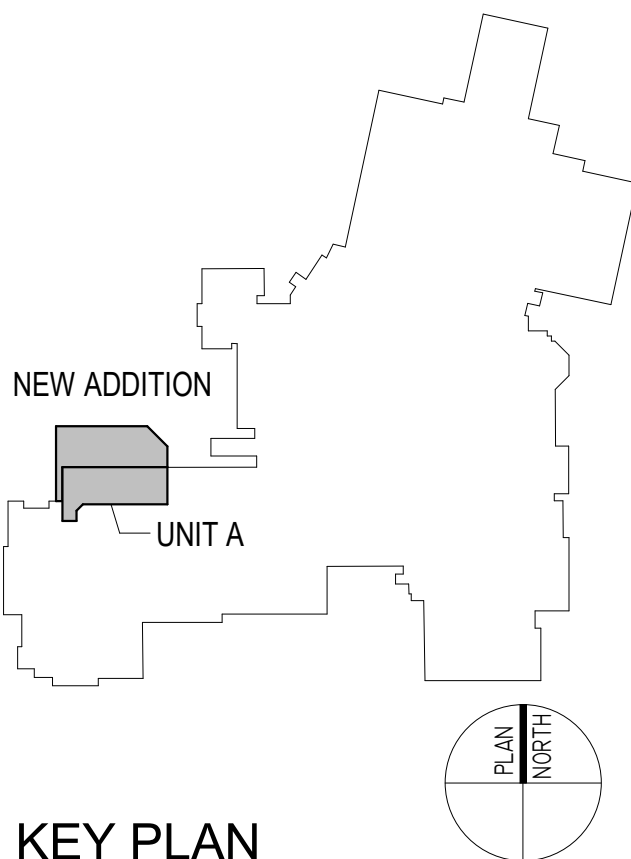
CARMEL CLAY SCHOOLS



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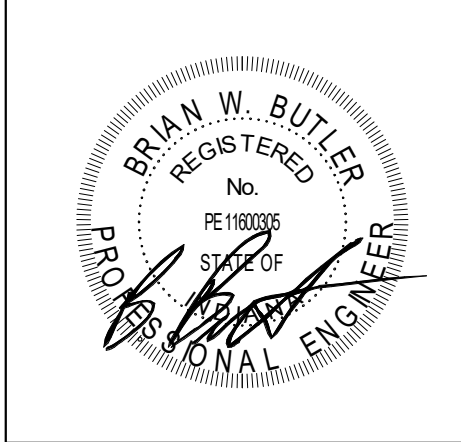


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350 E. NEW YORK ST. SUITE 300, INDIANAPOLIS, IN 46204



KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: JJR

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	9/21/2023

UNIT A - FIRST FLOOR TECHNOLOGY
ROUGH-IN PLAN

E3.01

ROOM LEGEND - FIRST FLOOR UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
C100	LOADING / RECEIVING	1202 SF
C100A	BREAK ROOM	640 SF
C100B	ELECTRICAL	825 SF
C100C	LAUNDRY	157 SF
C100D	TOILET	52 SF
C100E	TOILET	52 SF
C100F	SECURE STORAGE	91 SF
C100G	OFFICE	132 SF
C100H	KITCHEN	177 SF
C101	STORAGE	1015 SF
C101A	STORAGE	1287 SF
C101B	CORRIDOR	174 SF
C101C	MEDIA DATA	81 SF
C101D	YEARBOOK CLASSROOM / LAB	Not Placed
C101E	CORRIDOR	1860 SF
C101F	CORRIDOR	177 SF
C101G	CORRIDOR	976 SF
C101H	JOURNALISM CLASSROOM	Not Placed
C101I	VESTIBULE	70 SF
C101J	OFFICE	156 SF
C101K	CORRIDOR	992 SF
C101L	CORRIDOR	832 SF
C102	MENS TOILET	124 SF
C103	WOMENS TOILET	119 SF
C104	OFFICE	638 SF
C105	ELECTRONICS / PHYSICS	1251 SF
C106	CONSTRUCTION TRADES LAB	3699 SF
C106A	STORAGE	622 SF
C106B	ADVANCED CONSTRUCTION TRADES LAB	3867 SF
C107	CLASSROOM	1015 SF
C107A	ADVANCED MFG. ARTISAN LAB	1695 SF
C107B	FINISHING ROOM	97 SF
C108	GRAPHIC COMMUNICATIONS	1385 SF
C109	CAD LAB	1347 SF
C110	CAD LAB	1217 SF
C111	MEDIA DATA	83 SF
C111A	STORAGE	101 SF
C112	GIRLS	188 SF
C113	BOYS	163 SF
C114	CAD LAB	1188 SF
C115	ADVANCED AUTOMOTIVE SERVICES LAB	4790 SF
C115A	STORAGE	458 SF
C115B	AUTOMOTIVE SERVICES LAB	2828 SF
C115C	FINISHING ROOM	201 SF
C116	ADVANCED MFG. INNOVATION LAB	1278 SF
C116A	ADVANCED MFG. CLEAN LAB	762 SF
C117	CERAMIC CLASSROOM / LAB	1387 SF
C117A	STORAGE	145 SF
C117B	STORAGE / MATERIALS	150 SF
C118	INDEPENDENT STUDY / COMMERCIAL ART	1425 SF
C119	PHOTOGRAPHY	992 SF
C119A	DARKROOM	309 SF
C120	COMPUTER ART ROOM	442 SF
C122	TEACHERS WORKROOM	672 SF
C122A	DEPT. HEAD OFFICE	104 SF
C123	CERAMICS CLASSROOM / LAB	1205 SF
C123A	STORAGE	145 SF
C123B	STORAGE / MATERIALS	150 SF
C124	CULINARY ARTS	1299 SF
C124A	CLOSET	39 SF
C124B	DRY GOODS	154 SF
C124C	WALK-IN	129 SF
C125	DRAWING CLASSROOM / LAB	1173 SF
C126	DRAWING CLASSROOM / LAB	1182 SF
C127	DRAWING CLASSROOM / LAB	1182 SF
C128	JEWELRY CLASSROOM / LAB	853 SF
C129	PHOTOGRAPHY	1023 SF
C129A	DARKROOM	232 SF
C131	CORRIDOR	1363 SF
C131A	STORAGE	186 SF
C131B	MEDIA DATA	60 SF
C131C	CORRIDOR	476 SF
C132	STUDIO	244 SF
C133	PODCAST	143 SF
C134	PASSAGE	36 SF
C135	STUDIO	63 SF
C136	STORAGE	105 SF
C136A	COMPUTER LAB	201 SF
C137	STUDIO	91 SF
C138	STUDIO	93 SF
C138A	PASSAGE	127 SF
C138B	STUDIO	54 SF
C138C	STUDIO	52 SF
C138D	STUDIO	52 SF
C138E	STUDIO	52 SF
C139	CLASSROOM	984 SF
C141	TV CLASSROOM	819 SF
C141A	STUDIO B	165 SF
C141B	OFFICE	91 SF
C142	STUDIO B	196 SF
C142A	ENGINEERING	114 SF
C143	STUDIO A	1026 SF
C144	TV CONTROL	251 SF
C144A	EQUIPMENT ROOM	120 SF
C145	COMPUTER CLASSROOM	851 SF
C145A	SECURE CLOSET	17 SF
C146	COMPUTER SERVER STORAGE	303 SF
C147	JOURNALISM CLASSROOM	1488 SF
C147A	OFFICE	136 SF
C148	ELECTRICAL ROOM	143 SF
C149	YEARBOOK CLASSROOM / LAB	1350 SF
C149A	PODCAST	147 SF
C150	TV-GPU LAB	714 SF
C151	MECHANICAL	5687 SF
C152	-	927 SF

TECHNOLOGY PLAN NOTES

- R17 PROVIDE JUNCTION BOX FOR SPEAKER LOCATED UP IN BAR JOIST AREA (BELOW ROOF DECK AS REQUIRED BY CODE) SO THAT BOTTOM OF SUSPENDED SPEAKER IS LOCATED ABOVE THE BOTTOM OF BAR JOIST. PROVIDE CONDUITS BETWEEN JUNCTION BOXES AS REQUIRED. SEE DETAILS FOR SPEAKER CONNECTIONS.
- R18 PROJECTOR TO BE REMOVED/RE-INSTALLED
- R19 ALL CEILING CONDUIT IS PART OF ADDENDUM
- R20 INTERCOM PAGING STROBE

GENERAL NOTE:
ELECTRICAL RECEPTACLES SHOWN ON THE TECHNOLOGY ROUGH-IN DRAWINGS ARE FOR COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL POWER DRAWINGS FOR RECEPTACLE ROUGH-IN REQUIREMENTS.

CARMEL CLAY SCHOOLS

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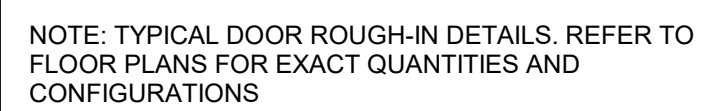
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E3.05



NOTE: SLEEVES SHALL NOT
PENETRATE CONCRETE
BOND BEAMS OR LINTELS.

2



3



TECHNOLOGY ROUGH-IN DETAILS

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



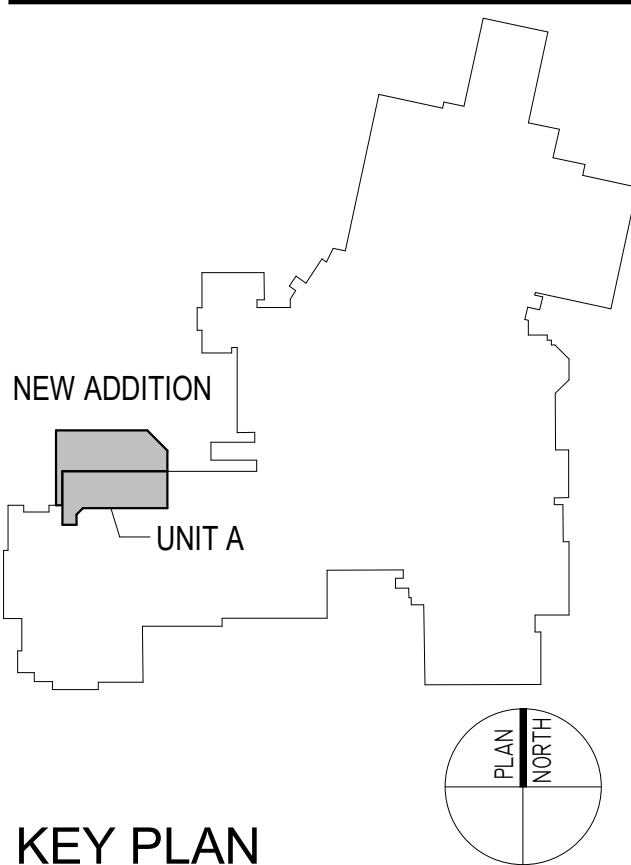
ARCHITECT



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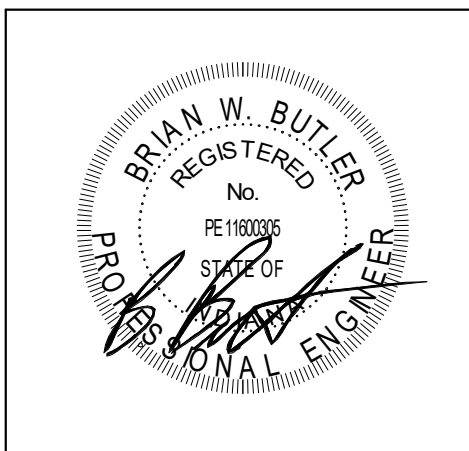
350 E. NEW YORK ST., SUITE 300, INDIANAPOLIS, IN 46204

CONSULTANT



KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: AMN

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	08/21/2023

UNIT A - LIGHTING PLAN

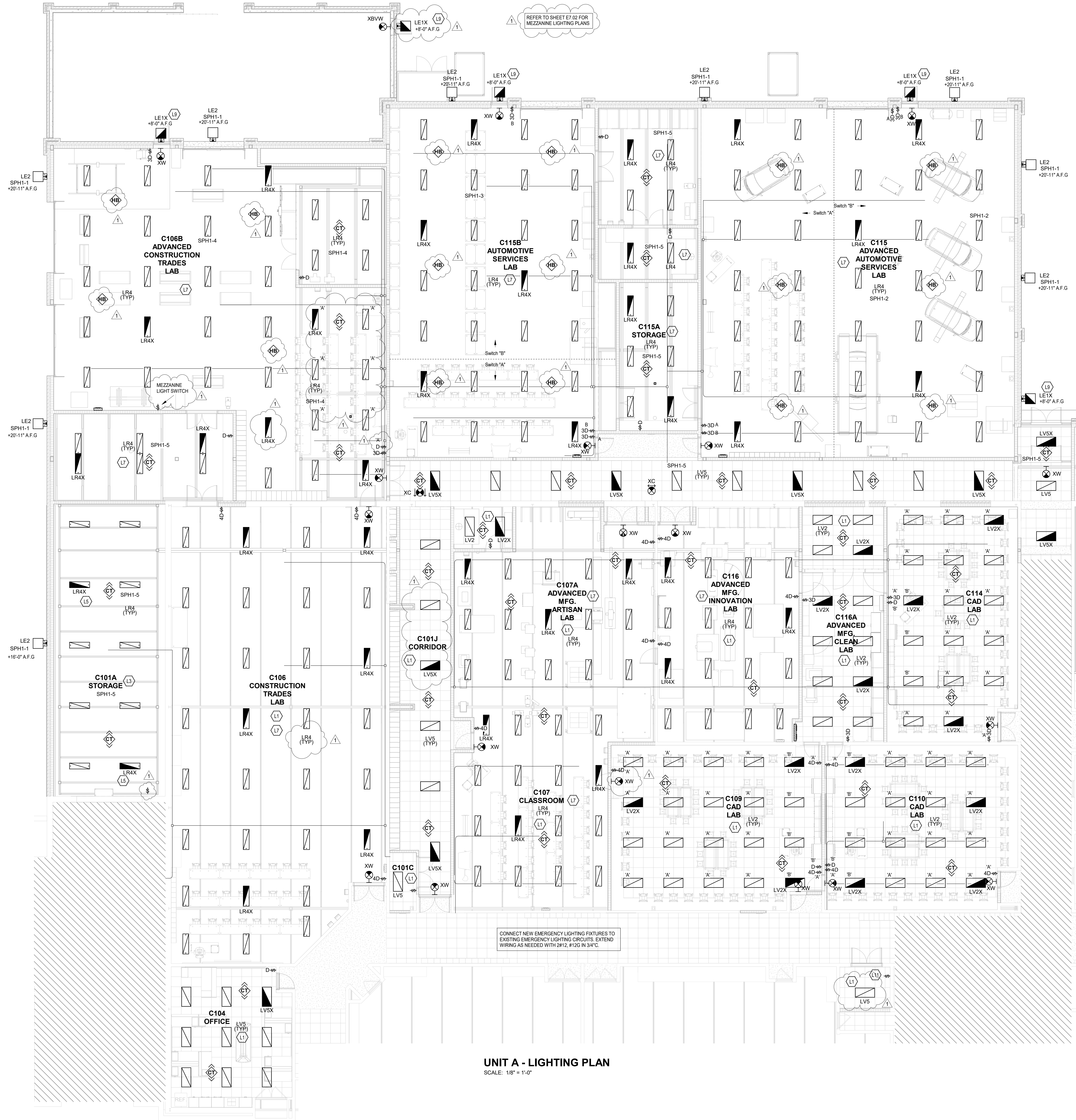
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GENERAL NOTES - LIGHTING

1. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES, COORDINATE LOCATION OF LUMINAIRES, LOUSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
4. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL "215.11".
5. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGHOUT SAME ROOM UNLESS OTHERWISE INDICATED.
6. PROVIDE NO. 10 AWG. MINIMUM CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS. CIRCUIT NUMBERS SHOWN FOR EXISTING PANELBOARDS ARE NUMBERED SPARE/SPACE CIRCUITS. EXISTING CIRCUITS TO REMAIN ARE NOT TO BE AFFECTED BY THIS NUMBERING.
- 7.

KEYNOTES

L1	CONNECT NEW LIGHTING IN THIS AREA TO EXISTING LIGHTING CIRCUIT TIED BACK DURING DEMOLITION.
L3	MOUNT BOTTOM OF FIXTURE AT 13'-0" ABOVE FINISHED FLOOR IN THIS AREA.
L5	EXTEND EMERGENCY CIRCUIT IN ADJACENT SPACE AND CONNECT TO NEW EMERGENCY FIXTURE.
L7	MOUNT LIGHTING EVEN WITH THE BOTTOM CHORD OF STRUCTURE IN THIS SPACE.
L9	CONNECT LE1X LIGHT FIXTURES TO NEAREST AVAILABLE EMERGENCY LIGHTING CIRCUIT.
L11	CONNECT NEW LIGHT SWITCH TO EXISTING LIGHTING IN THIS ROOM.





ROOM LEGEND - FIRST FLOOR UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
C120	COMPUTER ART ROOM	442 SF
C122	TEACHERS WORKROOM	672 SF
C122A	DEPT. HEAD OFFICE	104 SF
C123	CERAMICS CLASSROOM / LAB	126S SF
C123A	WALK IN	145 SF
C123B	STORAGE / MATERIALS	150 SF
C124	CULINARY ARTS	1299 SF
C124A	CLOSET	39 SF
C124B	DRY GOODS	154 SF
C124C	WALK IN	129 SF
C125	DRAWING CLASSROOM / LAB	1173 SF
C126	DRAWING CLASSROOM / LAB	1182 SF
C127	DRAWING CLASSROOM / LAB	1182 SF
C128	JEWELRY CLASSROOM / LAB	963 SF
C129	PHOTOGRAPHY	1023 SF
C129A	DARKROOM	232 SF
C131	CORRIDOR	1363 SF
C131A	STORAGE	166 SF
C131B	MEDIA DATA	60 SF
C131C	CORRIDOR	476 SF
C132	STUDIO	244 SF
C133	PODCAST	144 SF
C134	PASSAGE	36 SF
C135	STUDIO	83 SF
C136	STORAGE	105 SF
C136A	COMPUTER LAB	201 SF
C137	STUDIO	91 SF
C138	STUDIO	93 SF
C138A	PASSAGE	127 SF
C138B	STUDIO	54 SF
C138C	STUDIO	52 SF
C138D	STUDIO	52 SF
C138E	STUDIO	52 SF
C139	CLASSROOM	984 SF
C141	TV CLASSROOM	819 SF
C141A	STUDIO B	165 SF
C141B	OFFICE	91 SF
C142	STUDIO B	136 SF
C142A	ENGINEERING	114 SF
C143	STUDIO A	1026 SF
C144	TV CONTROL	261 SF
C144A	EQUIPMENT ROOM	120 SF
C145	COMPUTER CLASSROOM	851 SF
C145A	SECURE CLOSET	37 SF
C146	COMPUTER SERVER STORAGE	103 SF
C147	TECHNICAL CLASSROOM	1469 SF
C147A	OFFICE	136 SF
C148	ELECTRICAL ROOM	143 SF
C149	YEARBOOK CLASSROOM / LAB	1350 SF
C149A	PODCAST	137 SF
C150	TV-DU/LAB	714 SF
C151	MECHANICAL	568 SF
C152		927 SF

520 EAST MAIN STREET
CARMEL, IN 46032



**FANNING
HOWEY**

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1. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.

2. PROVIDE DETAIL FOR ALL ELECTRICAL PLANS FOR LOCATION OF LUMINAIRES COORDINATE LOCATION OF LUMINAIRES, LOWSPRESSURE DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED.

3. PROVIDE DETAIL FOR ALL ELECTRICAL PLANS FOR LOCATION OF LUMINAIRES COORDINATE LOCATION TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPOSED TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES.

4. PROVIDE DETAIL FOR ALL ELECTRICAL PLANS FOR LOCATION OF LUMINAIRES COORDINATE LOCATION TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPOSED TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES.

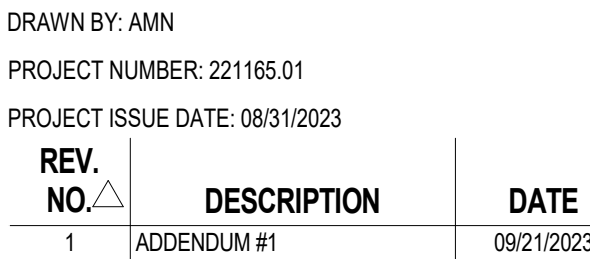
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SERVICING CUPS, AND BE ATTACHED TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL "21-01".

6. RECESSED LUMINAIRE IS SHOWN ONLY AS ONE, "TYPE" IN EVERY ROOM. PROVIDE SAME TYPE AND LUMINAIRE TYPE NUMBER SAME ROOM FOR ALL RECESSED LUMINAIRES.

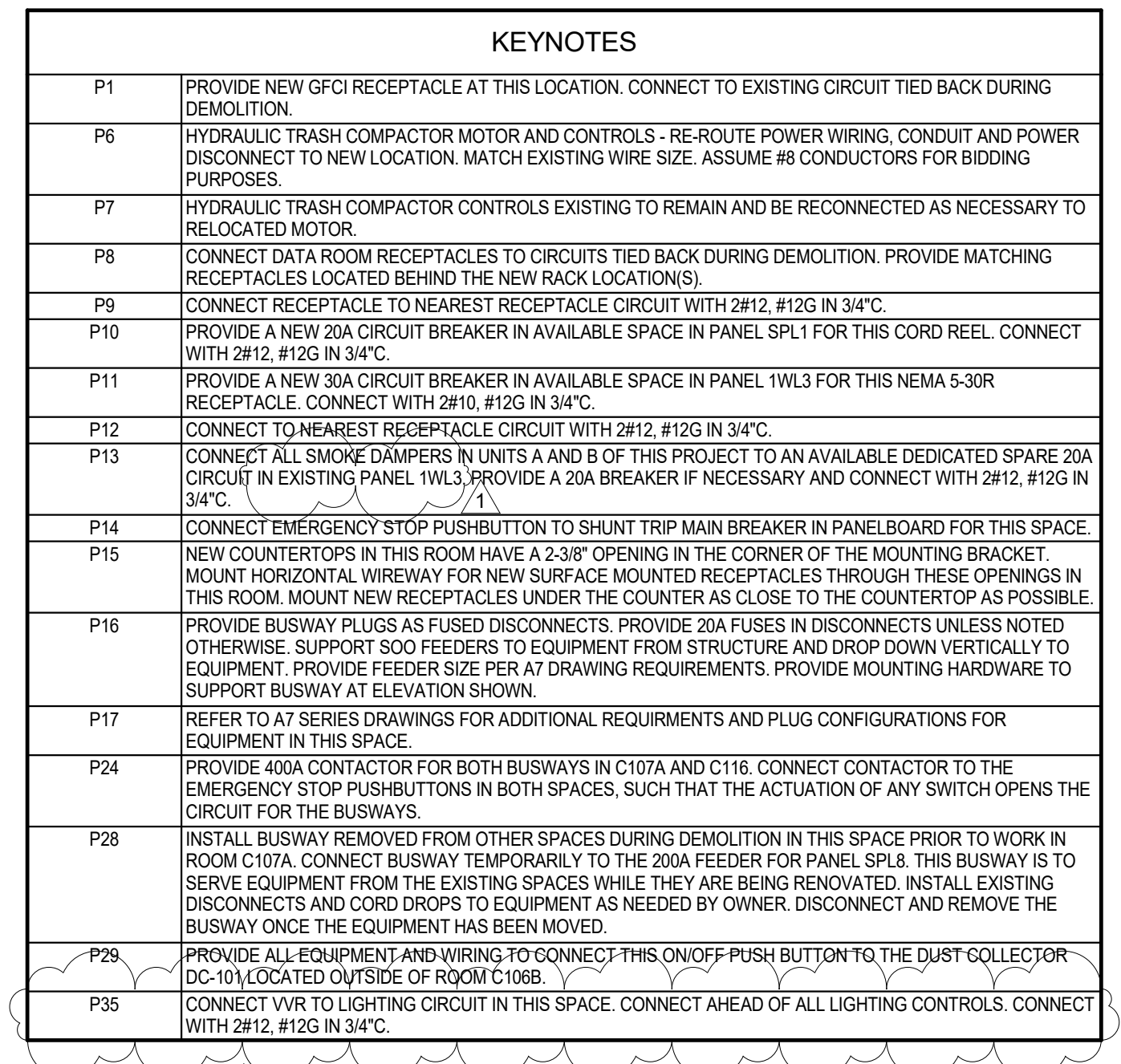
7. PROVIDE NO. 10 AWG MINIMUM CONDUCTORS FOR EXIT SIGNS AND SIGNIFICATION LIGHT CIRCUITS. CIRCUIT NO. 10 AWG MINIMUM CONDUCTORS FOR EXIT SIGNS AND SIGNIFICATION LIGHT CIRCUITS. EXIT CIRCUITS TO REMAIN ARE NOT TO BE AFFECTED BY THE NUMBERING.

KEYNOTES	
L1	CONNECT NEW LIGHTING IN THIS AREA TO EXISTING LIGHTING CIRCUIT TIED BACK DURING DEMOLITION.
L2	CONNECT NEW EMERGENCY LIGHTING TO EXISTING EMERGENCY CIRCUIT SERVING THIS AREA.
L6	CONNECT NEW LIGHTING IN THIS AREA TO EXISTING LIGHTING CIRCUIT IN ROOM C124.
L10	TV STUDIO PRODUCTION LIGHTING TO REMAIN. RELOCATE THE EXISTING PRODUCTION LIGHTING CONTROL BOARD TO THE EAST SIDE OF THE ROOM, EXTENDING OUT THE CORRIDOR AS NEEDED THROUGH THE ACCESSIBLE FLOOR TO THE NEW LOCATION.
L12	ADJUST LIGHT FIXTURE LOCATIONS IN THIS SPACE TO AVOID CONFLICTS WITH THE MOUNTING HARDWARE FOR THE PRODUCTION LIGHTING AND THE CEILING MOUNTED SURFACE RACKWAYS. PROVIDE ADJUSTMENTS NEEDED TO ARCHITECT/ENGINEERING FOR APPROVAL.

CONSTRUCTION DOCUMENTS



E4.02



**C108
GRAPHIC
COMMUNICATIONS**



UNIT C - POWER PLAN

ITEM	DESCRIPTION	MARK	VOLTAGE	PHS	KW	AMPS	HP	CONN	NEMA	AF	ELECTRICAL REMARKS			
DRI1	Duplex Convenience Receptacle	DR1	120	1	16.00			Plug		16				
DRI2	Duplex Convenience Receptacle	DR2	120	1	16.00			Plug		48	Furnish horizontal receptacle when mounted above counter top			
DR3	Retractable 15 Cord Convenience Receptacle	DR3	120	1	16.00			Plug	DFA		Drop service from directly above equipment to a point 22" off			
3	Walk-In Cooler/Freezer (Lights)	E62	120	1	16.00			Direct	DFA		Extend to KEC-furnished light fixtures thru junction box on top of walk-in-compartment			
3.1	Walk-In Cooler/Freezer (Cooler Cols)	E3.1	120	1	0.80			Direct	DFA		Extend to junction box on cooler evaporator coil thru KEC furnished disconnect switch			
3.2	Walk-In Cooler/Freezer (Cooler Condenser)	E3.2	208	1	5.70	0.50		Direct			Roof top	Extend to equipment thru KEC furnished electrical disconnect mounted on equipment		
3.3	Walk-In Cooler/Freezer (Freezer Coil Fans)	E3.3A	208	1	0.50			Direct	DFA		48	Extend from #E10.4 - See Walk-In Freezer Wiring Detail on F53.0		
3.3	Walk-In Cooler/Freezer (Freezer Coil Defrost)	E3.3B	208	1	4.50			Direct	DFA		48	Extend from #E10.4 - See Walk-In Freezer Wiring Detail on F53.0		
3.4	Walk-In Cooler/Freezer (Freezer Coil Drain Tape)	E3.3C	120	1	16.00			Direct		96"		Extend to receptacle mounted high on wall behind freezer evaporator coil		
3.4	Walk-In Cooler/Freezer (Freezer Condenser)	E3.4	208	3	24.00			Direct				Roof top	Extend to equipment thru KEC furnished electrical disconnect mounted on equipment	
9	Countertop Food Processor	E9	120	1	7.00			Plug	5-15P		Conv		Service from convenience receptacle located in foodservice area	
24	Garbage Disposal System	E12	480	3	2.20	2.00		Direct		16			Extend to equipment thru KEC furnished control panel	
24	Veriflex 12" Ice Dishmachine	E13	480	3	21.40			Direct		16			Extend to equipment thru electrical disconnect	
20	Nuggel Ice Maker w/ bin	E20	120	1	12.00			Plug	5-15P	48			Furnish horizontal receptacle when mounted above counter top	
21	Countertop Mixer w/ Stand	E21	120	1	6.00			Plug	5-15P	48			Furnish horizontal receptacle when mounted above counter top	
24	Countertop Microwave Oven	E24	120	1	2.00	20.00		Plug	5-20P	48			Furnish horizontal receptacle when mounted above counter top	
25	Countertop Food Slicer	E25	120	1	3.00		0.33	Plug	5-15P	48			Furnish horizontal receptacle when mounted above counter top	
34	Kitchen Ventilation System (Exhaust Fan)	E34	120	1	1.50			Direct			DFA		Extend to junction box on top of exhaust ventilation fan	
34.1	Kitchen Ventilation System (Exhaust Fan)	E34.1										Roof top	Roof top for exhaust fan combined with service for make-up air fan	
34.2	Kitchen Ventilation System (Make-Up Air Fan)	E34.2	480	3	14.30			Direct					Roof top	Extend to equipment thru KEC furnished electrical disconnect mounted on equipment
34.3	Kitchen Ventilation System (Fire Suppression System)	E34.3	120	1	1.50			Direct		DFA			Extend to junction box on top of exhaust ventilation hood	
35	6-Gallon Kombi Oven/Steamer (Upper)	E35A	480	3	9.00	11.00		Direct		48			Extend to equipment thru shunt trip circuit breaker	
35	6-Pan Kombi Oven/Steamer (Lower)	E35B	480	3	9.00	11.00		Direct		48			Extend to equipment thru shunt trip circuit breaker	
41	Fryer Kombi With Stand	E41	480	3	12.00	14.50		Direct		48			Extend to equipment thru shunt trip circuit breaker	
42	Fryer Battery w/ Filtration	E42	120	1	6.80			Plug	5-15P	48			Extend to equipment thru shunt trip circuit breaker	
43	Single Door Reach-In Freezer	E43	120	1	4.50	0.50		Plug	5-15P	48			Extend to equipment thru shunt trip circuit breaker	
53	Countertop Induction Range	E53	120	1	1.80	15.00		Plug	5-15P		Conv		Service from convenience receptacle located in foodservice area	
54	Countertop Digital Scale	E54	120	1	1.50			Plug	5-15P		Conv		Service from convenience receptacle located in foodservice area	
55	6-Quart Countertop Induction Range	E55	120	1	5.00	0.25		Plug	5-15P	Conv			Service from convenience receptacle located in foodservice area	

PROVIDE REVISED TYPE PANELBOARD DIRECTIONS FOR EACH PANELBOARD ADDED OR MODIFIED
DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSESSMENT
FOR THE DIRECTOR'S REVIEW. THE CONTRACTOR SHALL VERIFY THE EXISTING CIRCUIT INFORMATION
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES, AND ALL EXISTING FIELD CONDITIONS
CONFORMING TO THE REQUIREMENTS OF THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE
CONDITIONS, SHALL DIFFERENT CONDITIONS BE ENCLOSED, CONTACT THE ARCHITECT BEFORE
PROCEEDING WITH WORK.

REPAIR OR REPLACE THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER
PLATE WITH A TYPE 1 LAMINATED LABEL.

REPAIR OR REPLACE THE COVER PLATE FOR ANY GFCI PROTECTED DEVICE.

CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO
EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NEPA 70 (N.E.C.)
REQUIREMENTS.

REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT
SWITCHES TO THE LEFT OF THE EQUIPMENT.

REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL, CONTROL WIRING AND
CONTROL CONNECTIONS.

FOR EXISTING EQUIPMENT, EXISTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED
EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC
RAISED WEATHER SYSTEM.

FOR EXISTING RECEPTACLES TO BE REMOVED, REMOVE CONTROL, BOX, AND WIRING COMPLETELY.
REPAIR WALL PRIOR TO PAINTING. CONDUTS AND BOXES CAN REMAIN BEHIND FURRED PORTIONS OF
WALLS. FOR NEW RECEPTACLES, REPAIR WALL PRIOR TO PAINTING.

REPLACE ALL EXISTING RECEPTACLES SHOWN TO REMAIN WITH NEW DEVICES AND FACELATES.
CIRCUIT NUMBERS SHOWN FOR EXISTING PANELBOARDS ARE NUMBERED SPARE SPACES CIRCUITS
NOT TO BE USED.

- PROVIDE REVISED TYPE PANELBOARD DIRECTIONS FOR EACH PANELBOARD ADDED OR MODIFIED
DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSESSMENT
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- REPAIR OR REPLACE THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER
PLATE WITH A TYPE 1 LAMINATED LABEL.
- REPAIR OR REPLACE THE COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
- CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO
EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NEPA 70 (N.E.C.)
REQUIREMENTS.
- REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT
SWITCHES TO THE RIGHT OF THE EQUIPMENT.
- REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL, CONTROL WIRING AND
CONTROL CONNECTIONS.
- FOR EXISTING EQUIPMENT, EXISTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED
EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC
RAILWAY SYSTEM.
- FOR EXISTING RECEPTACLES TO BE REMOVED, REMOVE CONTROL, BOX, AND WIRING COMPLETELY.
REPAIR WALL PRIOR TO PAINTING. CONDUTS AND BOXES CAN REMAIN BEHIND FURRED PORTIONS OF
WALLS. FOR NEW RECEPTACLES, REPAIR WALL PRIOR TO PAINTING.
- REPLACE ALL EXISTING RECEPTACLES SHOWN TO REMAIN WITH NEW DEVICES AND FACELATES.
CIRCUIT NUMBERS SHOWN FOR EXISTING PANELBOARDS ARE NUMBERED SPARE SPACES CIRCUITS
NOT TO BE USED.

KEYNOTES	
P1	PROVIDE NEW GRC RECEPTACLE AT THIS LOCATION. CONNECT TO EXISTING CIRCUIT #103 BACK DURING DEMOLITION. EXTEND CIRCUIT TO EXISTING CIRCUIT #103.
P2	CONNECT TO NEAREST RECEPTACLE CIRCUIT WITH #12/2. #108 IN 3/4".
P3	CONNECT ALL SMOKE DAMPERS IN UNITS A AND B OF THIS PROJECT PANEL TO AN AVAILABLE DEDICATED SARGE IN CIRCUIT OF EXISTING PANEL 1M3. PROVIDE A SURGE PROTECTIVE NECESSARY AND CONDUCT WITH #12/2. #108 IN 3/4".
P18	PROVIDE NEW CEILING MOUNTED RECEPTACE WITH 2 RECEPTACES THE SAME DIMENSIONS AND AT THE SAME LOCATION AS THE PREVIOUS RECEPTACE THAT WAS REMOVED. PROVIDE 1000V CABLE WITH #12/2. #108 IN 3/4". CONNECTING 2 RECEPTACES TO EACH CIRCUIT. CONNECT #12. #108 IN 3/4". UTILIZE EXISTING CONDUIT IF IT IS IN GOOD CONDITION.
P19	PROVIDE A NEW PANEL TO MATCH THE DIMENSIONS AND THE PROPERTIES OF THE EXISTING PANEL THAT WAS REMOVED. PROVIDE A SURGE PROTECTIVE DEVICE IN THE PANEL. IN AVAILABLE SPACE. LEAVE BREAKERS NOT USED BEING UTILIZED FOR FUTURE USE. PROVIDE 1000V CABLE WITH #12/2. #108 IN 3/4".
P20	REPLACE EXISTING RECEPTABLES IN THIS SPACE WITH NEW DEVICES AND FACEPLATES.
P21	PROVIDE EXTENSION RINGS ON EXISTING RECEPTACLE BOXES TO EXPAND TO NEW WALL FACE. PROVIDE NEW DEVICE AND FACEPLATE.
P22	CONNECT NEW RECEPTACLE TO AVAILABLE SARGE 20A CIRCUIT IN PANEL IN ROOM C148. CONNECT WITH #12/2. #108 IN 3/4".
P23	PROVIDE NEW STAINLESS STEEL SLANK PLATE ON EMPTY BOX ON DMU WALL AT THIS LOCATION.
P24	CONNECT EMERGENCY STOP PUSHBUTTON TO SHUNT TRIP MAIN BREAKERS IN PANELS 100 AND 105.
P25	CONNECT NEW AIR COMPRESSOR AND NEW 60A DISCONNECT TO THE AIR COMPRESSOR CIRCUIT TIED BACK DURING DEMOLITION. EXTEND CIRCUIT AS NEEDED MATCHING EXISTING CONDUIT AND WIRE SIZES.
P26	CONNECT NEW AIR COMPRESSOR AND NEW 60A DISCONNECT TO AVAILABLE SARGE 60A SWITCH ON SWITCHBOARD B1H1. CONNECT WITH #36. #108 IN 1". PROVIDE 60A FUSES IN SWITCH AS REQUIRED.
P27	CONNECT NEW RECEPTACLE TO AVAILABLE SARGE 20A CIRCUIT IN PANEL C2 IN ROOM C145. CONNECT WITH #12/2. #108 IN 3/4".
P28	CONNECT NEW EXHAUST FAN TO AVAILABLE SARGE 30A CIRCUIT IN PANEL C2 IN ROOM C145. CONNECT WITH #12/2. #108 IN 3/4".
P29	PROVIDE RECEPTACLE ON ROOF. MOUNTED NEAR COOLER AND FREEZER CONDENSING UNITS.
P30	PROVIDE RECEPTACLE ON ROOF. MOUNTED NEAR POWER.
P31	CONNECT MAIN 120V CONDUIT TO THE NEW 400V CIRCUIT SHOWN CONNECTED TO ITEM C54. CONNECT WITH #12. #108 IN 3/4".

- | KEYNOTES | |
|----------|---|
| P1 | PROVIDE NEW GRC RECEPTACLE AT THIS LOCATION. CONNECT TO EXISTING CIRCUIT #103 BACK DURING DEMOLITION. EXTEND CIRCUIT TO EXISTING CIRCUIT #103. |
| P2 | CONNECT TO NEAREST RECEPTACLE CIRCUIT WITH #12/2. #108 IN 3/4". |
| P3 | CONNECT ALL SMOKE DAMPERS IN UNITS A AND B OF THIS PROJECT PANEL TO AN AVAILABLE DEDICATED SARGE IN CIRCUIT OF EXISTING PANEL 1M3. PROVIDE A SURGE PROTECTIVE NECESSARY AND CONDUCT WITH #12/2. #108 IN 3/4". |
| P18 | PROVIDE NEW CEILING MOUNTED RECEPTACE WITH 2 RECEPTACES THE SAME DIMENSIONS AND AT THE SAME LOCATION AS THE PREVIOUS RECEPTACE THAT WAS REMOVED. PROVIDE 1000V CABLE WITH #12/2. #108 IN 3/4". CONNECTING 2 RECEPTACES TO EACH CIRCUIT. CONNECT #12. #108 IN 3/4". UTILIZE EXISTING CONDUIT IF IT IS IN GOOD CONDITION. |
| P19 | PROVIDE A NEW PANEL TO MATCH THE DIMENSIONS AND THE PROPERTIES OF THE EXISTING PANEL THAT WAS REMOVED. PROVIDE A SURGE PROTECTIVE DEVICE IN THE PANEL. IN AVAILABLE SPACE. LEAVE BREAKERS NOT USED BEING UTILIZED FOR FUTURE USE. PROVIDE 1000V CABLE WITH #12/2. #108 IN 3/4". |
| P20 | REPLACE EXISTING RECEPTABLES IN THIS SPACE WITH NEW DEVICES AND FACEPLATES. |
| P21 | PROVIDE EXTENSION RINGS ON EXISTING RECEPTACLE BOXES TO EXPAND TO NEW WALL FACE. PROVIDE NEW DEVICE AND FACEPLATE. |
| P22 | CONNECT NEW RECEPTACLE TO AVAILABLE SARGE 20A CIRCUIT IN PANEL IN ROOM C148. CONNECT WITH #12/2. #108 IN 3/4". |
| P23 | PROVIDE NEW STAINLESS STEEL SLANK PLATE ON EMPTY BOX ON DMU WALL AT THIS LOCATION. |
| P24 | CONNECT EMERGENCY STOP PUSHBUTTON TO SHUNT TRIP MAIN BREAKERS IN PANELS 100 AND 105. |
| P25 | CONNECT NEW AIR COMPRESSOR AND NEW 60A DISCONNECT TO THE AIR COMPRESSOR CIRCUIT TIED BACK DURING DEMOLITION. EXTEND CIRCUIT AS NEEDED MATCHING EXISTING CONDUIT AND WIRE SIZES. |
| P26 | CONNECT NEW AIR COMPRESSOR AND NEW 60A DISCONNECT TO AVAILABLE SARGE 60A SWITCH ON SWITCHBOARD B1H1. CONNECT WITH #36. #108 IN 1". PROVIDE 60A FUSES IN SWITCH AS REQUIRED. |
| P27 | CONNECT NEW RECEPTACLE TO AVAILABLE SARGE 20A CIRCUIT IN PANEL C2 IN ROOM C145. CONNECT WITH #12/2. #108 IN 3/4". |
| P28 | CONNECT NEW EXHAUST FAN TO AVAILABLE SARGE 30A CIRCUIT IN PANEL C2 IN ROOM C145. CONNECT WITH #12/2. #108 IN 3/4". |
| P29 | PROVIDE RECEPTACLE ON ROOF. MOUNTED NEAR COOLER AND FREEZER CONDENSING UNITS. |
| P30 | PROVIDE RECEPTACLE ON ROOF. MOUNTED NEAR POWER. |
| P31 | CONNECT MAIN 120V CONDUIT TO THE NEW 400V CIRCUIT SHOWN CONNECTED TO ITEM C54. CONNECT WITH #12. #108 IN 3/4". |



UNIT B - POWER PLAN

GENERAL NOTES - FIRE ALARM

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.

KEYNOTES

F1	PROVIDE NEW NOTIFICATION DEVICE. CONNECT TO EXISTING NOTIFICATION CIRCUIT SERVING AREA.
F2	REFER TO SMOKE DAMPER DETAIL ON SHEET E1.01 FOR ALL SMOKE DAMPER INSTALLATION REQUIREMENTS.

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS



ARCHITECT

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HOWEY**

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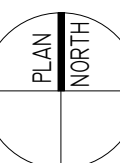
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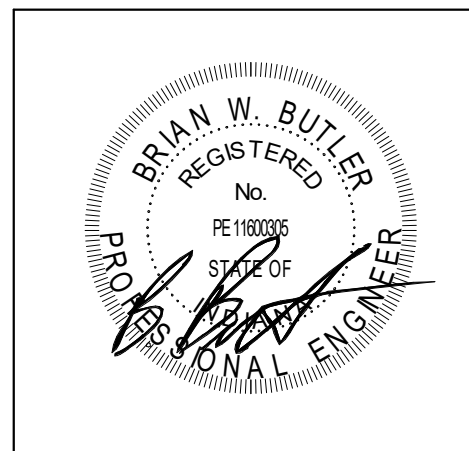
NEW ADDITION

UNIT A



KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: AMN

PROJECT NUMBER: 221165.01

PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

UNIT A - FIRE ALARM PLAN

E6.01

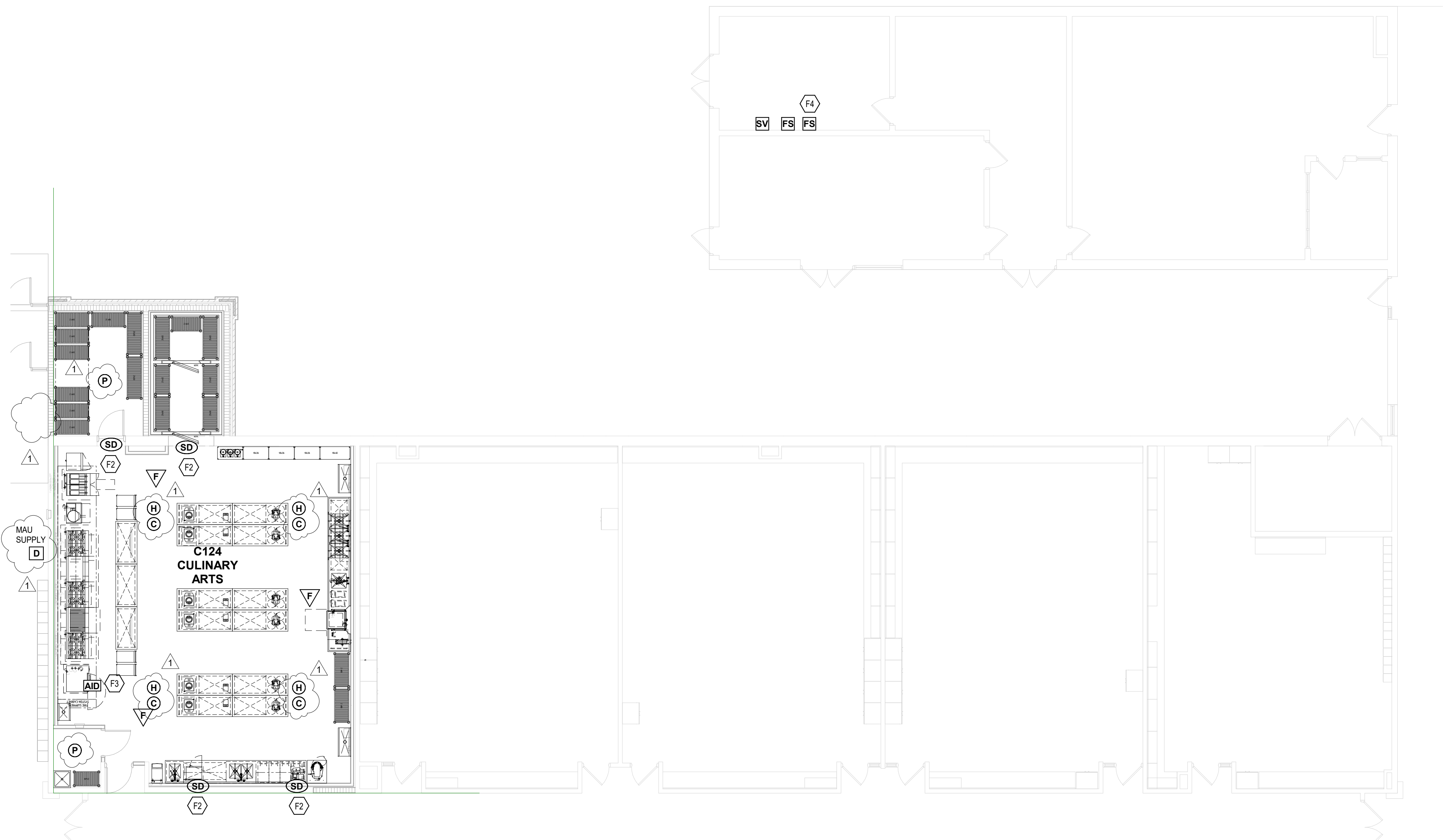
UNIT A - FIRE ALARM PLAN

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

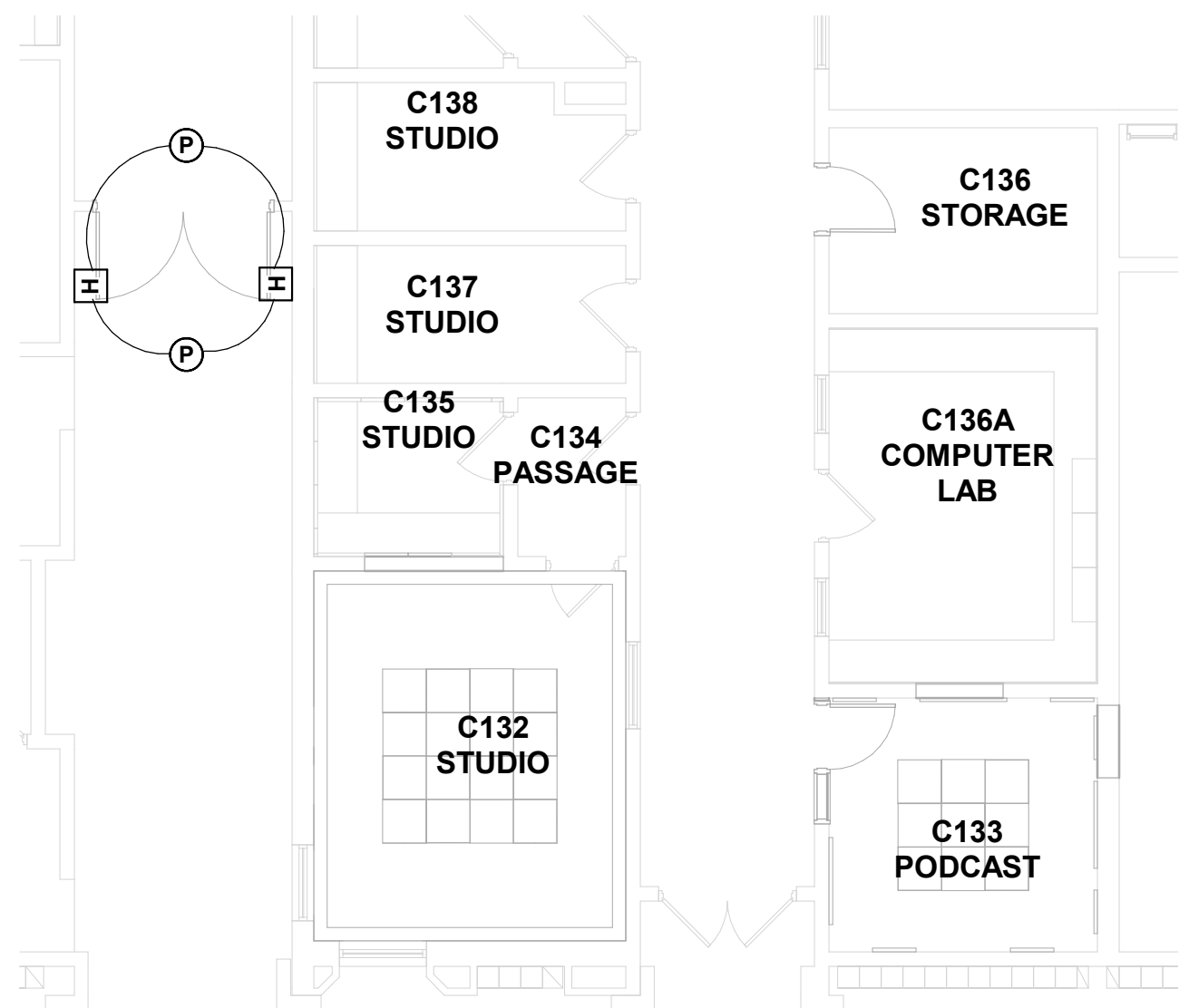
GENERAL NOTES - FIRE ALARM

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.

KEYNOTES	
F2	REFER TO SMOKE DAMPER DETAIL ON SHEET E1.01 FOR ALL SMOKE DAMPER INSTALLATION REQUIREMENTS.
F3	CONNECT CULINARY HOOD FIRE SYSTEM TO THE BUILDING FIRE ALARM SYSTEM. PROVIDE ALL EQUIPMENT AND CONNECTIONS REQUIRED.
F4	ONE OF THE FLOW SWITCH CONNECTIONS SHOWN IS A DIRECT REPLACEMENT OF AN EXISTING FLOW SWITCH.



UNIT B - FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



UNIT C - FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

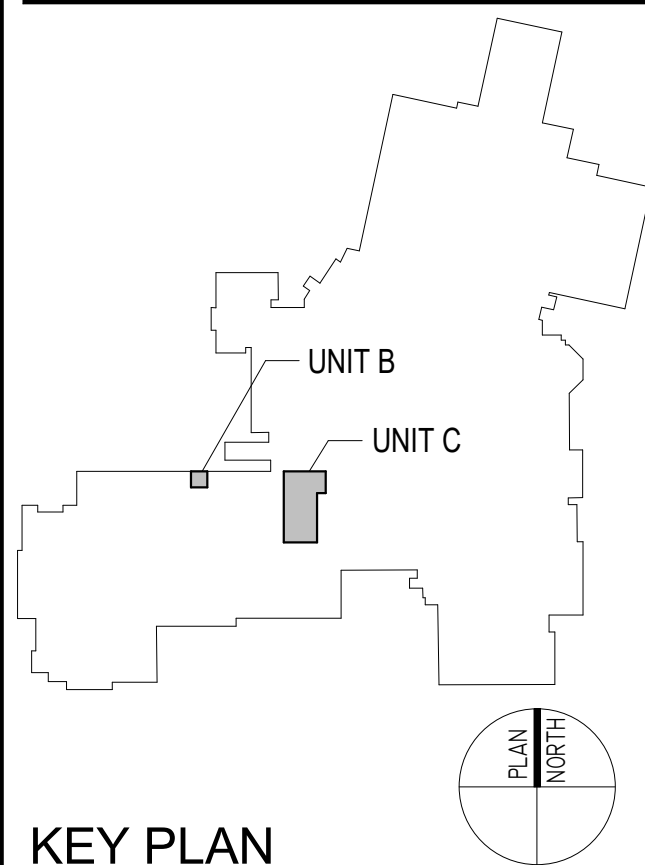
520 EAST MAIN STREET
CARMEL, IN 46032



ARCHITECT

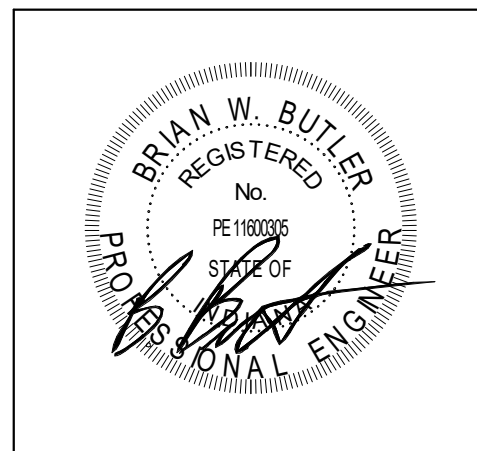


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KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: AMN		
PROJECT NUMBER: 221165.01		
PROJECT ISSUE DATE: 08/31/2023		
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	09/21/2023

UNIT B & C - FIRE ALARM PLANS

E6.02

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

CARMEL CLAY SCHOOLS

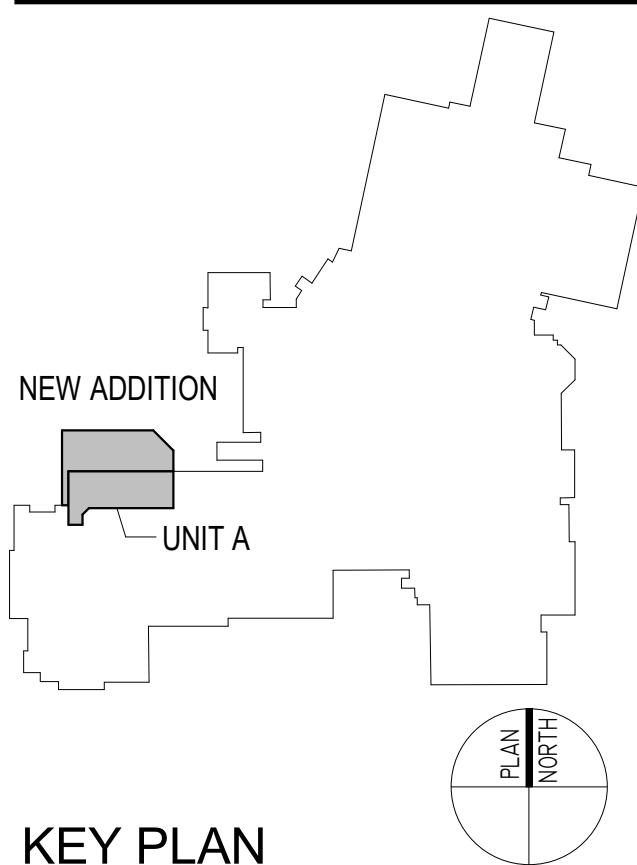


ARCHITECT

FANNING
HOWEY

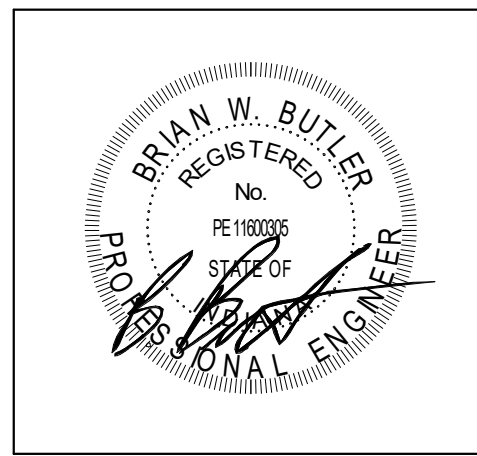
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KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: AMN

PROJECT NUMBER: 221165.01
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	08/21/2023

UNIT A - MEZZANINE ELECTRICAL
PLAN

E7.02

GENERAL NOTES - LIGHTING

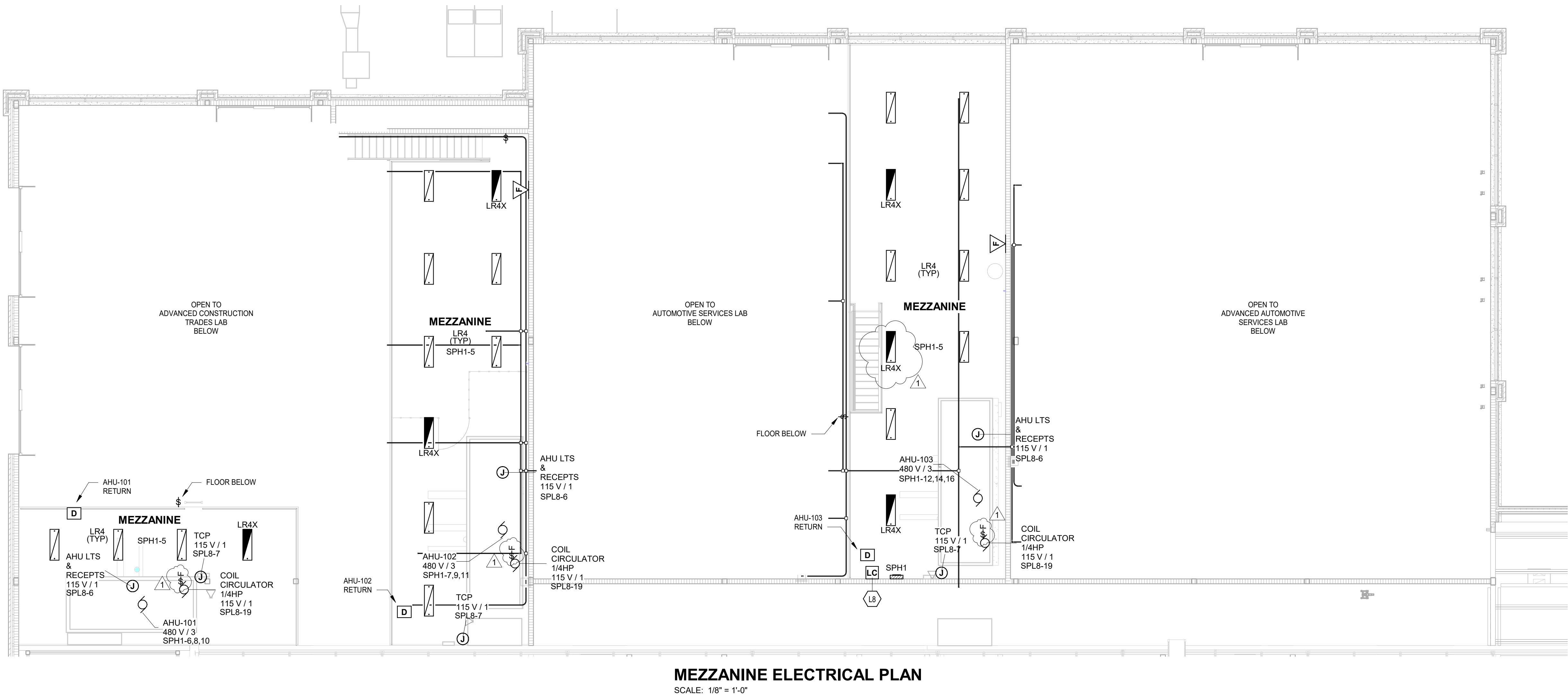
1. FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
4. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL "381.01".
5. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGHOUT SAME ROOM UNLESS OTHERWISE INDICATED.
6. PROVIDE NO. 16 AWG. MINIMUM CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS. CIRCUIT NUMBERS SHOWN FOR EXISTING PANELBOARDS ARE NUMBERED SPARE/SPACE CIRCUITS. EXISTING CIRCUITS TO REMAIN ARE NOT TO BE AFFECTED BY THIS NUMBERING.
- 7.

GENERAL NOTES - POWER

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
2. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
3. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
4. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
5. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
6. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
7. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.
8. FOR EXISTING RECEPTACLES TO BE REMOVED, REMOVE CONDUIT, BOX, AND WIRING COMPLETELY. REPAIR WALL PRIOR TO PAINTING. CONDUITS AND BOXES CAN REMAIN BEHIND FURRED PORTIONS OF WALLS. NO BLANK PLATES ARE TO BE VISIBLE UPON PROJECT COMPLETION.
9. REPLACE ALL EXISTING RECEPTACLES SHOWN TO REMAIN WITH NEW DEVICES AND FACEPLATES. CIRCUIT NUMBERS SHOWN FOR EXISTING PANELBOARDS ARE NUMBERED SPARE/SPACE CIRCUITS. EXISTING CIRCUITS TO REMAIN ARE NOT TO BE AFFECTED BY THIS NUMBERING.
- 10.
- 11.

KEYNOTES

LB	CONNECT LE2 EXTERIOR LIGHT FIXTURE CIRCUIT(S) TO THIS LIGHTING CONTACTOR. CONNECT CONTACTOR TO THE EXISTING BMS SYSTEM AND PROGRAM AS NEEDED.
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Branch Panel: CAH1

Location: CULINARY ARTS C124

Supply From:

Mounting: Recessed

Enclosure: Type 1

Volts: 480/277 Wye

Phases: 3

Wires: 4

A.I.C. Rating:

Mains Type: M.C.B

Mains Rating: 200 A

MCB Rating: 200 A

Notes:

NOTE 1: CONNECT WITH 4#12, #12G IN 3/4".

NOTE 2: CONNECT WITH 4#10, #12G IN 3/4".

NOTE 3: CONNECT WITH 4#6, #10G IN 1".

CONNECT SHUNT TRIP BREAKERS IN PANEL TO HOOD FIRE SUPPRESSION SYSTEM.

SHUNT TRIP MAIN BREAKER.

CKT	Circuit Description	Tripp	Poles	A	B	C	Poles	Tripp	Circuit Description	CKT
1	Spare	20 A	1	0	609		3	20 A	Garbage Disposer - E12 (NOTE 1)	2
3	Spare	20 A	1			0	609			4
5	Dishmachine - E13 (NOTE 2)	30 A	3				5928	609	3	6
7	--	--	--	5928	8820					8
9	--	--	--		5928	8820				10
11	Combi Oven/Steamer (Upper) - E35A (NOTE 1)	20 A	3				3000	8820	3	12
13	--	--	--	3000	3000				3	14
15	--	--	--		3000	3000			--	16
17	SHUNT TRIP	--	1			--	3000	--	--	18
19	12 Gal. Kettle - E41 (NOTE 2)	30 A	3	4000	--			1	--	20
21	--	--	--		4000	1662		3	15 A	22
23	--	--	--			4000	1662	--	--	24
25	SHUNT TRIP	--	1	--	1662			--	--	26
27	Spare	20 A	1		0	0		1	20 A	28
29	Spare	20 A	1			0	0	1	20 A	30
31	Spare	20 A	1	0	0			1	20 A	32
33	Spare	20 A	1		0	0		1	20 A	34
35	Spare	20 A	1			0	0	1	20 A	36
37	SPD	--	1	--	0			1	20 A	38
39	SPD	--	1		--	0		1	20 A	40
41	SPD	--	1			--	0	1	20 A	42
Total Load:				27019 VA	27019 VA	27019 VA				
Total Amps:				98 A	98 A	98 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	22769 VA	119.53%	27215 VA	Total Conn. Load: 81056 VA Total Est. Demand: 71942 VA Total Conn.: 97 A Total Est. Demand: 87 A
HVAC	26459 VA	90.00%	23813 VA	
Receptacle	31828 VA	65.71%	20914 VA	

Notes:

NOTE 1: CONNECT WITH 4#12, #12G IN 3/4".

NOTE 2: CONNECT WITH 4#10, #12G IN 3/4".

NOTE 3: CONNECT WITH 4#6, #10G IN 1".

Branch Panel: CAL1											
Location: CULINARY ARTS C124						Volts: 208/120 Wye			A.I.C. Rating: 10,000		
Supply From: <div>Mounting: Recessed</div> <div>Enclosure: Type 1</div>						Phases: 3			Mains Type: M.C.B		
						Wires: 4			Mains Rating: 100 A		
									MCB Rating: 100 A		
<div>Notes: INTEGRAL SURGE PROTECTION</div> <div>CONNECT SHUNT TRIP BREAKERS IN PANEL TO HOOD FIRE SUPPRESSION SYSTEM.</div> <div>SHUNT TRIP MAIN BREAKER.</div>											
CKT	Circuit Description	Tripp	Poles	A	B	C	Poles	Tripp	Circuit Description	CKT	
1	Recept #1 - South	20 A	1	180	1500			1	20 A	2	
3	Countertop Food Slicer - E25	20 A	1		360	720		1	20 A	4	
5	Receptacles Rm C124B, C124, C124A	20 A	1			720	1000	1	20 A	6	
7	Recept #2 - South	20 A	1	180	180			1	20 A	8	
9	East Wall - Receptacles	20 A	1		720	--		1	--	10	
11	Recept #1 - West	20 A	1			180	180	1	20 A	12	
13	SHUNT TRIP	--	1	--	--			1	--	14	
15	Fryer - E42	20 A	1		816	540		1	20 A	16	
17	SHUNT TRIP	--	1			--	300	1	20 A	18	
19	Recept #3 - South	20 A	1	180	562			2	20 A	20	
21	Recept #4 - South	20 A	1		180	562		--	--	22	
23	Freezer Coil Drain Tape - E3.3C	20 A	1			1500	562	2	20 A	24	
25	Countertop Food Processor - E9	20 A	1	840	562			--	--	26	
27	Instructors Drop Cords 5/6 - DR3	20 A	1		360	180		1	20 A	28	
29	Table 1 Drop Cord #2 - DR3	20 A	1			180	--	1	--	30	
31	Table 2 Drop Cord #2 - DR3	20 A	1	180	360			1	20 A	32	
33	Table 3 Drop Cords #2 - DR3	20 A	1		180	360		1	20 A	34	
35	Table 1 Drop Cord #4 - DR3	20 A	1			180	180	1	20 A	36	
37	Table 2 Drop Cord #4 - DR3	20 A	1	180	180			1	20 A	38	
39	Table 3 Drop Cords #4 - DR3	20 A	1		180	180		1	20 A	40	
41	Freezer Condenser (Roof) - E3.4 (NOTE 2)	30 A	2			2496	180	1	20 A	42	
43		--	--	2496	180			1	20 A	44	
45	Exhaust Fan - EF-118	20 A	1		230	180		1	20 A	46	
47	Mopsters & Camry	20 A	1			540	1145	1	20 A	48	
49	Roof Equipment Receptacles	20 A	1	360	180			1	20 A	50	
51	Spare	20 A	1		0	0		1	20 A	52	
53	Spare	20 A	1			0	0	1	20 A	54	
55	SPD	--	1	--	0	--	0	1	20 A	56	
57	SPD	--	1	--	0	--	0	1	20 A	58	
59	SPD	--	1	--	0	--	0	1	20 A	60	
Total Load:				8299 VA	5748 VA	9343 VA					
Total Amps:				72 A	48 A	81 A					
Legend:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Lighting		480 VA		100.00%		480 VA		Total Conn. Load: 23389 VA			
Motor		7813 VA		115.97%		9061 VA		Total Est. Demand: 22849 VA			
Electric Heat		1500 VA		90.00%		1350 VA		Total Conn.: 65 A			
Elec. Domestic Hot Water		800 VA		70.00%		560 VA		Total Est. Demand: 63 A			
Receptacle		12796 VA		89.07%		11398 VA					
Notes:											
NOTE 1: CONNECT WITH 3#12, #12G IN 3/4".											
NOTE 2: CONNECT WITH 3#10, #12G IN 3/4".											

Branch Panel: SPL7											
Location: AUTOMOTIVE SERVICES LAB...						Volts: 208/120 Wye			A.I.C. Rating:		
Supply From:						Phases: 3			Mains Type: M.C.B		
Mounting: Surface						Wires: 4			Mains Rating: 200 A		
Enclosure: Type 1									MCB Rating: 200 A		
Notes: INTEGRAL SURGE PROTECTION											
SHUNT TRIP MAIN BREAKER											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Motor AUTOMOTIVE SERVICES LAB C115B	20 A	1	10 360				1 20 A	Cord Reel - C115B	2	
3	Exterior Receptacle	20 A	1		180 360			1 20 A	Receptacle	4	
5	Exhaust Fan - EF-111 RM C115A	20 A	1			345 540		1 20 A	Receptacles West Wall C115B	6	
7	Exhaust Fan - EF-105 RM C115B	20 A	1	667 1440				1 20 A	Receptacles STORAGE C115A	8	
9	Cord Reels C115B	20 A	1		1080 1127			1 20 A	Overhead Door C115B	10	
11	Exhaust Fan - EF-107 RM C115B	20 A	1			667 720		1 20 A	Receptacles Northwest Corner C115B	12	
13	Chain Hoist	20 A	1	1840 0				1 20 A	Spare	14	
15	Spare	20 A	1		0 1040			2 20 A	Tire Balancer C115B (NOTE 1)	16	
17	Vehicle Lift C115B (NOTE 1)	--	2			500 1040	--	--		18	
19	--	--	--	500 1700			--	--	50 A Welder #3 (NOTE 2)	20	
21	Tire Changer Rm C115B (NOTE 1)	20 A	2		1040 1700		--	--		22	
23	--	--	--			1040 1700	2	50 A	Welder #5 (NOTE 2)	24	
25	Spare	20 A	1	0 1700			--	--		26	
27	Welder #4 (NOTE 2)	50 A	2		1700 1700		2	50 A	Welder #1 (NOTE 2)	28	
29	--	--	--			1700 1700	--	--		30	
31	Portable Welders - RM C115 (NOTE 2)	50 A	2	1700 792			3	20 A	Exhaust Fan - EF-106 RM C115B (NOTE 1)	32	
33	--	--	--		1700 792		--	--		34	
35	Welder #2 (NOTE 2)	50 A	2			1700 792	--	--		36	
37	--	--	--	1700 900			3	20 A	Oil/Water Separator (NOTE 3)	38	
39	Spare	20 A	1		0 900		--	--		40	
41	Spare	20 A	1			0 900	--	--		42	
43	Spare	20 A	1	0 0			1	20 A	Spare	44	
45	Spare	20 A	1		0 0		1	20 A	Spare	46	
47	Spare	20 A	1			0 0	1	20 A	Spare	48	
49	Spare	20 A	1	0 0			1	20 A	Spare	50	
51	Spare	20 A	1		0 0		1	20 A	Spare	52	
53	Spare	20 A	1			0 0	1	20 A	Spare	54	
55	SPD	--	1	-- 0			1	20 A	Spare	56	
57	SPD	--	1		-- 0		1	20 A	Spare	58	
59	SPD	--	1			-- 0	1	20 A	Spare	60	
Total Load:				13309 VA	13319 VA	13344 VA					
Total Amps:				111 A	111 A	111 A					
Legend:											
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals						
Motor		12172 VA	105.55%	12847 VA	Total Conn. Load: 39972 VA Total Est. Demand: 31747 VA Total Conn.: 111 A Total Est. Demand: 88 A						
Receptacle		27800 VA	67.99%	18900 VA							
Notes:											
NOTE 1: CONNECT WITH 3#12, #12G IN 3/4".											
NOTE 2: CONNECT WITH 3#6, #10G IN 1/2".											
NOTE 3: CONNECT WITH 4#12, #12G IN 3/4".											

CARMEL HIGH SCHOOL
POLYTECHNIC
ADDITION AND
RENOVATION

520 EAST MAIN STREET
CARMEL, IN 46032

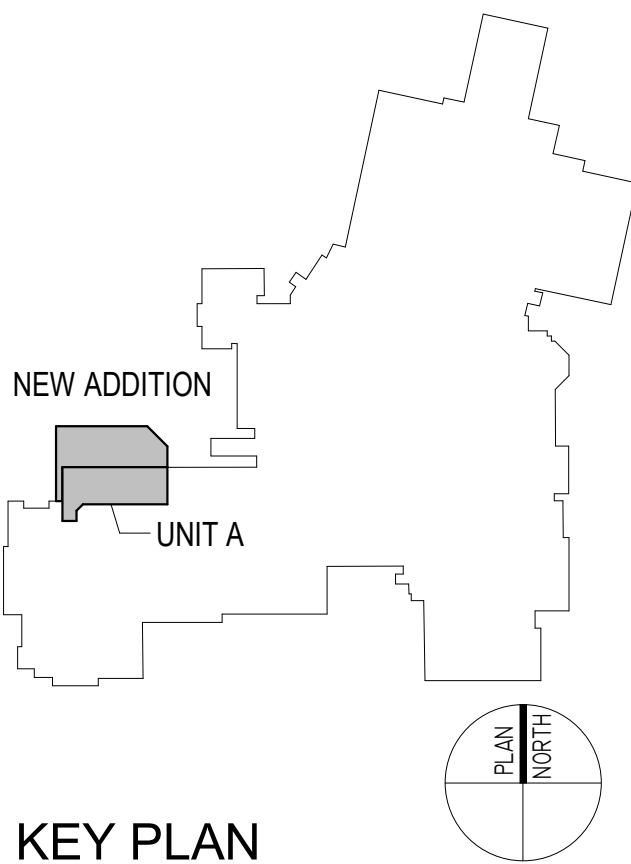
CARMEL CLAY SCHOOLS



ARCHITECT

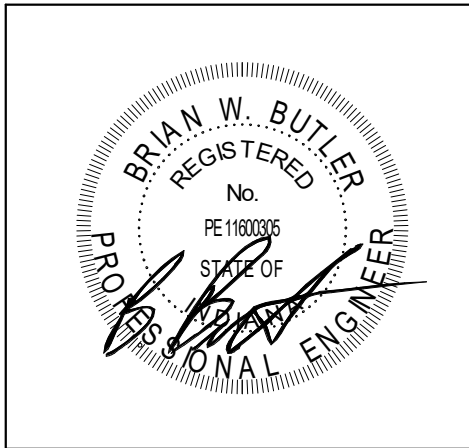


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KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: JWR
PROJECT NUMBER: 221165.01
PROJECT ISSUE DATE: 08/31/2023

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	9/2/2023

UNIT A - FIRST FLOOR TECHNOLOGY
PLAN

T3.01

ROOM LEGEND - FIRST FLOOR UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
C100	LOADING / RECEIVING	1202 SF
C100A	BREAK ROOM	640 SF
C100B	ELECTRICAL	825 SF
C100C	LAUNDRY	157 SF
C100D	TOILET	52 SF
C100E	TOILET	52 SF
C100F	SECURE STORAGE	91 SF
C100G	OFFICE	132 SF
C100H	KITCHEN	177 SF
C101	CORRIDOR	1890 SF
C101A	STORAGE	1287 SF
C101B	CORRIDOR	174 SF
C101C	MEDIA DATA	61 SF
C101D	YEARBOOK CLASSROOM / LAB	Not Placed
C101E	CORRIDOR	1890 SF
C101F	CORRIDOR	177 SF
C101G	JOURNALISM CLASSROOM	Not Placed
C101H	VESTIBULE	70 SF
C101I	OFFICE	156 SF
C101J	CORRIDOR	992 SF
C101K	CORRIDOR	832 SF
C102	MENS TOILET	124 SF
C103	WOMENS TOILET	119 SF
C104	OFFICE	638 SF
C105	ELECTRONICS / PHYSICS	1251 SF
C106	CONSTRUCTION TRADES LAB	3699 SF
C106A	STORAGE	622 SF
C106B	ADVANCED CONSTRUCTION TRADES LAB	3867 SF
C107	CLASSROOM	1015 SF
C107A	ADVANCED MFG. ARTISAN LAB	1695 SF
C107B	FINISHING ROOM	97 SF
C108	GRAPHIC COMMUNICATIONS	1385 SF
C109	CAD LAB	1347 SF
C110	CAD LAB	1217 SF
C111	MEDIA DATA	83 SF
C111A	STORAGE	101 SF
C112	GIRLS	188 SF
C113	BOYS	163 SF
C114	CAD LAB	1188 SF
C115	ADVANCED AUTOMOTIVE SERVICES LAB	4790 SF
C115A	STORAGE	458 SF
C115B	AUTOMOTIVE SERVICES LAB	2828 SF
C115C	FINISHING ROOM	201 SF
C116	ADVANCED MFG. INNOVATION LAB	1278 SF
C116A	ADVANCED MFG. CLEAN LAB	762 SF
C117	CERAMIC CLASSROOM / LAB	1387 SF
C117A	STORAGE	145 SF
C117B	STORAGE / MATERIALS	150 SF
C118	INDEPENDENT STUDY / COMMERCIAL ART	1425 SF
C119	PHOTOGRAPHY	992 SF
C119A	DARKROOM	309 SF
C120	COMPUTER ART ROOM	442 SF
C122	TEACHERS WORKROOM	672 SF
C122A	DEPT. HEAD OFFICE	104 SF
C123	CERAMICS CLASSROOM / LAB	1205 SF
C123A	STORAGE	145 SF
C123B	STORAGE / MATERIALS	150 SF
C124	CULINARY ARTS	1299 SF
C124A	CLOSET	39 SF
C124B	DRY GOODS	154 SF
C124C	WALK-IN	129 SF
C125	DRAWING CLASSROOM / LAB	1173 SF
C126	DRAWING CLASSROOM / LAB	1182 SF
C127	DRAWING CLASSROOM / LAB	1182 SF
C128	JEWELRY CLASSROOM / LAB	953 SF
C129	PHOTOGRAPHY	1023 SF
C129A	DARKROOM	232 SF
C131	CORRIDOR	1363 SF
C131A	STORAGE	166 SF
C131B	MEDIA DATA	60 SF
C131C	CORRIDOR	476 SF
C132	STUDIO	244 SF
C133	PODCAST	144 SF
C134	PASSAGE	36 SF
C135	STUDIO	63 SF
C136	STORAGE	105 SF
C136A	COMPUTER LAB	201 SF
C137	STUDIO	91 SF
C138	STUDIO	93 SF
C138A	PASSAGE	127 SF
C138B	STUDIO	54 SF
C138C	STUDIO	52 SF
C138D	STUDIO	52 SF
C138E	STUDIO	52 SF
C139	CLASSROOM	984 SF
C141	TV CLASSROOM	819 SF
C141A	STUDIO B	165 SF
C141B	OFFICE	91 SF
C142	STUDIO B	196 SF
C142A	ENGINEERING	114 SF
C143	STUDIO A	1026 SF
C144	TV CONTROL	251 SF
C144A	EQUIPMENT ROOM	120 SF
C145	COMPUTER CLASSROOM	851 SF
C145A	SECURE CLOSET	17 SF
C146	COMPUTER SERVER STORAGE	303 SF
C147	JOURNALISM CLASSROOM	1468 SF
C147A	OFFICE	136 SF
C148	ELECTRICAL ROOM	143 SF
C149	YEARBOOK CLASSROOM / LAB	1350 SF
C149A	PODCAST	147 SF
C150	TV-CPU LAB	714 SF
C151	MECHANICAL	5687 SF
C152	-	927 SF

TECHNOLOGY PLAN NOTES

- T2 ROUTE CABLING IN CONDUIT PARALLEL OR PERPENDICULAR TO BAR JOISTS. ALL CONDUIT AND BOXES SHALL BE INSTALLED SO THAT EQUIPMENT IS NO LOWER THAN BOTTOM CHORD OF TRUSS.
- T20 SEE DETAIL 2/11.03 FOR INTERCOM PAGING STROBE CABLING DETAIL.
- T21 ALL CEILING CONDUIT IS PART OF ADDENDUM

CAMERA SCHEDULE

NUMBER	ROOM	MODEL	LENS	RESOLUTION	MOUNTING	NOTES
CAM-1	EXTERIOR	XND-8082RV	6MP	6MP	WALL	
CAM-2	EXTERIOR	XND-8082RV	6MP	6MP	WALL	
CAM-3	EXTERIOR	XND-8082RV	6MP	6MP	WALL	
CAM-4	EXTERIOR	XND-8082RV	6MP	6MP	WALL	
CAM-5	C101F	XND-8082RV	6MP	6MP	CEILING	
CAM-6	C101F	QND-8080R	5MP	5MP	CEILING	
CAM-7	C101D	QND-8080R	5MP	5MP	CEILING	
CAM-8	C101D	PNM-900VD	2X5MP	2X5MP	CEILING	
CAM-9	C101J	QND-8080R	5MP	5MP	CEILING	
CAM-10	C101H	PNM-12082RVD	2X6MP	2X6MP	CEILING	
CAM-11	C124	AG-UX90 Pro 4K UHD			CEILING	PANASONIC
CAM-12	RADIO HALL	PNM-900VD	2X5MP	2X5MP	CEILING	
CAM-13	RADIO HALL	QND-8080R	5MP	5MP	CEILING	