

November 7, 2024

ADDENDUM NO. 01 to the plans and specifications for MACOMB COUNTY – COUNTY WAREHOUSE – F & O AND PURCHASING OFFICE RENOVATION, CLINTON TOWNSHIP, MI, Architect’s Project No. 242053, dated OCTOBER 31, 2024

Specification Sections: 09510 and 10999 and Drawings G0.0, G2.0, G3.0, LS1.0, AD1.0, A1.0, A1.0A, A1.1, A1.2, A1.3, A2.0, A3.0, A4.0, A9.1, M0.00, M1.00, PD1.10, MD1.10, MD2.10, P1.10, M1.10, M2.10, M5.00, M6.00, M7.00, E0.00, E1.00, EPD1.10, ELD1.10, ED2.10, EP1.10, EL1.10, E2.10, E5.00, E6.00, E7.00 are being issued with this Addendum.

Pre-bid Meeting Sign-In sheet is being issued with this Addendum

GENERAL ITEMS

ITEM NO. G1: Pre-bid meeting sign-in sheet issued for reference

ARCHITECTURAL ITEMS:

ITEM NO. A1: Refer to Sheet G0.0:
1. Added sheet A1.0A, Composite Roof Plan to drawing index.

ITEM NO. A2: Refer to Sheet G2.0:
1. Sheet re-issued.

ITEM NO. A3: Refer to Sheet G3.0:
1. Revised sheet G3.0, Deleted and added general key notes.

ITEM NO. A4: Refer to Sheet LS1.0:
1. Revised sheet.

ITEM NO. A5: Refer to Sheet AD1.0:
1. Revised sheet.

ITEM NO. A6: Refer to Sheet A1.0:
1. Revised sheet.

ITEM NO. A7: Refer to Sheet A1.0A:
1. Added sheet A1.0A, Composite Roof Plan.

ITEM NO. A8: Refer to Sheet A1.1:
1. Revised sheet.

ITEM NO. A9: Refer to Sheet A1.2:
1. Revised sheet.

- ITEM NO. A10:** Refer to Sheet A1.3:
1. Revised sheet.
- ITEM NO. A11:** Refer to Sheet A2.0:
1. Revised sheet.
- ITEM NO. A12:** Refer to Sheet A3.0:
2. Revised sheet.
- ITEM NO. A13:** Refer to Sheet A4.0:
1. Revised sheet.
- ITEM NO. A14:** Refer to Sheet A9.1:
1. Revised sheet.

MECHANICAL ITEMS

- ITEM NO. M1:** Refer to sheet M0.00 – Mechanical General Information (Re-issued);
1. Adjusted Project number on plans as indicated.
- ITEM NO. M2:** Refer to sheet M1.00 Mechanical Composite Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
- ITEM NO. M3:** Refer to sheet PD1.10 – Plumbing Demolition First Floor Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
2. Added scope to re-work fire protection main in warehouse space.
- ITEM NO. M4:** Refer to sheet MD1.10 – Mechanical Demolition First Floor Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
- ITEM NO. M5:** Refer to sheet MD2.10 – Mechanical Demolition Roof Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
- ITEM NO. M6:** Refer to sheet P1.10 – Plumbing New Work First Floor Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
2. Added cold water piping size to plan as indicated.
3. Added scope to re-route fire protection main as required to install new ductwork.

- ITEM NO. M7:** Refer to sheet M1.10 – Mechanical New Work First Floor Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Removed terminal unit #15
 3. Removed diffuser serving IT space
 4. Added fire dampers at location shown
 5. Adjusted diffuser layout to accommodate Architectural ceiling elements.
 6. Extended 40"x24" duct as indicated
- ITEM NO. M8:** Refer to sheet M2.10 – Mechanical New Work First Floor Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Added keyed note #2
 3. Added rooftop unit mounted screening to unit.
- ITEM NO. M9:** Refer to sheet M5.00 – Mechanical Details (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Added rooftop unit screening detail
 3. Added rooftop unit cooling drain pan detail
 4. Added gas piping connection detail
- ITEM NO. M10:** Refer to sheet M6.00 – Mechanical Schedules (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Removed terminal unit #15 from VAV schedule
 3. Added note specifying disconnect by manufacturer for terminal units
 4. Added note specifying field installed controllers by temperature controls contractor.
 5. Adjusted airflow of terminal unit #13
 6. Adjusted notes on exhaust fan schedule as indicated
 7. Re-work S-3 diffuser from 2 slot 2-way to 2 slot 1-way
- ITEM NO. M11:** Refer to sheet M7.00 – Mechanical Details (Re-issued);
1. Adjusted Project number on plans as indicated.

ELECTRICAL ITEMS

- ITEM NO. E1:** Refer to sheet E0.00 Electrical General Information and Lighting Schedule (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Removed Fixture D.
 3. Added Fixture X2.
- ITEM NO. E2:** Refer to sheet E1.00 Electrical Power Composite First and Second Floor Plans (Re-issued);
1. Adjusted Project number on plans as indicated.

- ITEM NO. E3:** Refer to sheet EPD1.10 Electrical Power Demolition First Floor Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
- ITEM NO. E4:** Refer to sheet ELD1.10 Electrical Power Demolition First Floor Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
- ITEM NO. E5:** Refer to sheet ED2.10 Electrical Power Demolition Roof Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
- ITEM NO. E6:** Refer to sheet EP1.10 Electrical Power New Work First Floor Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Added circuit numbers as indicated on plans.
 3. Added data outlets as indicated on plans.
 4. Added 3 TV locations as indicated on plans.
 5. Added Keynotes 6,7,8, and 9.
 6. Added power for ECUH.
- ITEM NO. E7:** Refer to sheet EL1.10 Electrical Lighting New Work First Floor Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Added circuit numbers as indicated on plans.
 3. Adjusted lighting in vestibule/main entrance as indicated on plans.
 4. Adjusted lighting in open office as indicated on plans.
- ITEM NO. E8:** Refer to sheet E2.10 Electrical Power New Work Roof Plan (Re-issued);
1. Adjusted Project number on plans as indicated.
- ITEM NO. E9:** Refer to sheet E5.00 Electrical Details (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Added 2 Gang Floor Box Detail.
 3. Added TV Detail.
 4. Added TV1 Detail.
 5. Added Card Reader Detail.
 6. Added TELE/AV/AV Outlet Detail.
- ITEM NO. E10:** Refer to sheet E6.00 Electrical Panel Schedules (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Adjusted panel schedules as indicated.

- ITEM NO. E11:** Refer to sheet E7.00 One-Line Riser Diagrams (Re-issued);
1. Adjusted Project number on plans as indicated.
 2. Added RTU-1 feeder tag.
 3. Added transformer T-RPN.
 4. Added panel RP-N.

END OF ADDENDUM NO. 1

Cc: Mary Schultz, Macomb County
Ben Treppa, Macomb County Facilities & Operations
Anthony Torelli, Macomb County
Dan Waters, Wakely Associates
Ron Syme, Wakely Associates

SECTION 09510 - ACOUSTICAL CEILINGS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Attention is directed to Division 0, Bidding and Contract Requirements, and to Division 1, General Requirements, which are hereby made a part of this Section.

1.02 DESCRIPTION OF WORK:

- A. The extent of acoustical panel ceiling is shown on the drawings and in schedules.

1.03 QUALITY ASSURANCE:

- A. The installation of acoustical panel ceilings is to be by an experienced installation firm which is acceptable to the manufacturer of the acoustical units, as shown by current written statement from the manufacturer.
- B. Standard for Terminology and Performance: Applicable publications by the Acoustical and Insulating Materials Association (AIMA), including "Performance Data, Architectural Acoustical Materials."
- C. Fire Hazard Classification: UL tested, listed and labeled as Class 0.25.

1.04 SUBMITTALS:

- A. Product Data:
 - 1. For information only, submit PDF copy of manufacturer's product specifications and installation instructions for each acoustical panel ceiling material required, and for suspension system, including certified laboratory test reports and other data as required to show compliance with these specifications. Distribute one additional copy of each installation instruction to the Installer.
 - a. Include manufacturer's recommendations for cleaning and refinishing acoustical panel, including precautions against materials and methods which may be detrimental to finishes and acoustical performance.

1.05 SAMPLES

1. Submit (3) three sets of 12" square Samples for each acoustical panel required. In each set of samples show the full range of exposed color and texture to be expected in the completed work. Sample submittal and Architect's review will be for color and texture only. Compliance with other requirements is the exclusive responsibility of the Installer.
2. Submit (3) three, 12" long samples of exposed runner and molding. Architect's review will be for color and texture only. Compliance with other requirements is the exclusive responsibility of the Installer.

C. Maintenance Stock:

1. At the time of completing the installation, deliver stock of maintenance materials to the Owner. Furnish full size units matching the units installed, packaged with protective covering for storage and identified with appropriate labels. Furnish an amount equal to 5.0% of the amount installed.

1.06 JOB CONDITIONS:

- A. Space Enclosures: Do not install until interior acoustical panel ceilings unit space has been enclosed and is weather-tight, and until wet work in the space has been completed and is nominally dry and until work above ceilings has been completed, and until ambient conditions of temperature and humidity will be continuously maintained at values near those indicated for final occupancy.

PART 2 - PRODUCTS

2.01 CEILING UNITS:

- A. Acoustical Panels: (AT-1) All Areas (Unless noted otherwise)
 1. Provide 24" x 24" fiberglass with acoustically transparent membrane with factory-applied latex paint and a plant based binder units not less than 1-1/2" thick. NRC min. 0.80, AC200, CAC 40 min., light reflectance min. 0.88, square tegular edge, Class A.

2. Acceptable Products:
 - a. Armstrong: Item No. 8730PB 'Lyra High CAC'.
 - b. Certainteed Item No. 1672B-IOF-1 ADAG10 High CAC.
 3. Install in 15/16" exposed tee grid.
 4. Paint exposed/cut edges where visible with manufacturer's recommended edge paint/sealant.
- B. Acoustical Panels: (AT-2) Toilet & Print Rooms
1. Provide 2 x 2 fiberglass units with a scrubbable vinyl film facing (UV protected), not less than 5/8" thick. NRC min. 0.70, CAC, light reflectance min. 0.72.
 2. Acceptable Products:
 - a. Armstrong Item No. 2908 perforated "Random Fissured".
 - b. Certainteed: Item No. 1532-VINP-1 "Versatone White Vintage Perforated".
 - c. USG: Item No. 7054G "Premier Hi-lite ClimaPlus"- "Kapok".
 3. Install in 15/16" exposed tee grid.
- C. Acoustical Panels: (AT-3) Wood Ceiling System
1. Provide linear open series wood ceiling system not less than 3/4" thick, NRC 0.85, CAC 35 with black acoustic infill panels.
 2. Acceptable Products:
 - a. Armstrong: Woodworks-Grille Forte 5 slats per panel (3/4" x 2-1/4"H) 69% open area. Model #63254S02_ _ _ (finish range to be determined).
 - i. Install with pre-drilled backer holes in a heavy duty prelude grid. Color-black
 - ii. Panels shall have a Class C fire rating.
- D. Acoustical Clouds: (Grouped & Individually Hung) (AT-4)
1. Provide shapes of fiberglass with surface texture-fine, of shape design of small and large trapezoids, parallelograms and triangles grouped together and mounted individually. Refer to reflected ceiling plan. Edge profile-square, sound absorption up to 1.00 noise reduction coefficient (NRC) ASTM C423, with bid block; anti-microbial inherent properties.

2. Acceptable Products:
 - a. Armstrong: Soundscapes Acoustic Clouds-Colors
 - i. Shape Design:
 - a. ~~#5445F02Z02 90° Trapezoid~~
 - b. #7101F02P01 60° Parallelogram
 - c. #7101F02T01 60° Triangle
 - d. #7101F02Z01 60° Trapezoid
 - ii. 60° Shapes shall be grouped in an individual cloud and also individually hung and 90° Shape shall be individually hung on an angle.
 - iii. Provide with cable suspension #5450L8CR, Item #5451WH & #5452WH (Grouping frame kit and grouping frame splice kit and #7121 angled hanging kit for 90° trapezoid panels. **and all associated manufacturer specific hardware for the indicated layouts.**
 - iv. Panels shall have a Class A rating.

E. Acoustical Panels: (AT-5) Copy Room #A120

1. Provide 24" x 24" wet-formed mineral fiber units with Durabrite acoustically transparent membrane not less than 7/8" thick. NRC 0.80, AC170, CAC 35, light reflectance 0.88, beveled tegular edge.
2. Acceptable Products:
 - a. Armstrong Item No. 1941 "Ultima Open Plan"
 - b. Certainteed: Item No. 1222BB-80-1 Symphony m High CAC
 - c. USG: Item No. 87200 Mars High-NRC Acoustical Panels
3. Install in 15/16" exposed tee grid.

2.03 CEILING SUSPENSION MATERIALS:

- A. General: Comply with ASTM C 635, as applicable to an intermediate duty suspension system. Coordinate with other work supported by or penetrating through the ceilings, including light fixtures and HVAC equipment.
- B. Attachment Devices: Size for 5 times the design load indicated in ASTM C 635, Table 1, Direct Hung.
 1. Hanger Wires: Galvanized carbon steel, ASTM A 641, soft temper, prestretched, yield-stress load of at least 3 times design load but not less than 12 USWG.

C. Exposed Suspension System: Exposed systems compatible with tiles specified and as follows:

1. 15/16" Systems

- a. Armstrong - 15/16" Prelude XL exposed tee grid.
- b. CertainTeed - 15/16" Classic Aluminum Capped Stab System.
- c. Donn - DX24 System; USG Interiors
- d. Chicago Metallic Corp: 1200 System.

D. Edge Moldings: Manufacturer's standard channel molding for grid type used for edges and penetrations of ceiling, with a single flange of molding exposed, finish to match grid.

2.04 MISCELLANEOUS MATERIALS:

A. Acoustical Sealant: A heavy-bodied, non-shrinking, non-drying, non-sag grade mastic compound intended for interior sealing of concealed construction joints.

B. Tile Cement: As recommended by tile manufacturer.

PART 3 - EXECUTION

3.01 INSPECTION AND PREPARATION WORK:

A. Installer must examine the conditions under which the acoustical ceiling work is to be performed and notify the General Contractor, in writing, of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.

B. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid the use of less-than-half widths units at borders, and comply with reflected ceiling plans wherever possible.

3.02 INSTALLATION:

A. General: Install material in accordance with manufacturer's printed instructions and comply with governing regulations as indicated, and industry standards applicable to the work.

- B. Install suspension systems to comply with ASTM C 636 with hangers supported only from building structural members as indicated. Locate hangers near each end and spaced 4' - 0' along direct-hung runners, unless otherwise indicated.
 - 1. Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye-screws, or other devices which are secure and appropriate for the substrate, and which will not deteriorate or fail with age or elevated temperatures.

- C. Install edge moldings at edges of each acoustical ceiling area and at locations where edge of units would otherwise be exposed after completion of the work, except where adhesively applied.
 - 1. Sealant Bed: Apply continuous ribbon of acoustical sealant, concealed pm back of vertical leg before fastening to vertical surface.
 - 2. Secure moldings to building construction by fastening with screw-anchors into the substrate through holes drilled in not more than 16" o.c. along each molding.
 - 3. Level moldings with ceiling suspension system to level tolerance of 1/8" in 12' - 0".
 - 4. Miter corners of moldings accurately to provide hair-line joints, securely connected to prevent dislocation.

- D. Cope exposed flanges of intersection suspension system members so that flange faces will be flush (cope flange of member supported by other member) except as otherwise indicated.

- E. Install acoustical panels in coordination with suspension system, with edges concealed by support of suspension members. Scribe and cut panels to fit accurately at penetrations.

- F. Install edge trim moldings where indicated and elsewhere as needed to conceal edges of acoustical units which would otherwise be exposed to view after completion of the work. Anchor with fasteners, or if not possible, secure in place with permanent adhesive.

3.03 CLEANING AND PROTECTION:

- A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work which cannot be successfully cleaned and required to permanently eliminate evidence of damage.
- B. The Installer shall advise the General Contractor of required protection for the acoustical panel ceilings, including temperature and humidity limitations and dust control, so that the work will be without damage and deterioration at the time of acceptance by the Owner.

END OF SECTION 09510

MACOMB COUNTY

COUNTY WAREHOUSE - F & O and
PURCHASING OFFICES RENOVATION

242053

OCTOBER 31, 2024

1SECTION 10999 - MISCELLANEOUS SPECIALTIES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A. Attention is directed to Division 0, Bidding and Contract Requirements, and to Division 1, General Requirements, which are hereby made a part of this Section.

1.02 DESCRIPTION OF WORK:

- A. The extent of miscellaneous specialties is as shown on the drawings or schedules and includes the following:

- 1. Contemporary Bulletin Board Cabinet
- 2. Entrance Flooring
- 3. Dishwasher
- 4. Microwaves
- 5. Oven/Range

1.03 SUBMITTALS:

- A. Product Data:

- 1. Submit PDF copy of manufacturer's specifications and installation instructions for each type of specialty required. Indicate by transmittal that copy of each instruction has been distributed to the Installer.

- B. Samples:

- 1. Submit three (3) three samples of each color and finish of exposed materials and accessories required for each specialty. Architect's review of samples will be for color and texture only. Compliance with all other requirements is the exclusive responsibility of the Contractor.

- C. Shop Drawings:

- 1. Submit shop drawings for fabrication and erection of specialties, including plans, elevations and large scale details, shop anchorages and accessory items. Provide location template drawings for items supported or anchored to permanent construction.

PART 2 - PRODUCTS

2.01 PREFABRICATED PRODUCTS:

A. Surface Mount Contemporary Bulletin Board Cabinet:

1. Provide Model 2043 (4'h x 5'w) as manufactured by Claridge Products.
 - a. Frame shall be 1-1/2" x 3" heavy gauge rectangular clear satin anodized aluminum frame.
 - b. Hinge shall be continuous piano type hinge.
 - c. Provide with tackable back panel of Guilford of Maine fabric. Color selected by Architect from manufacturers standard color range.
 - d. Doors shall be of 3/16" temp. glass with flat key tumbler locks.
 - e. Provide (2) two per building. Locations to be determined by Owner.

B. Entrance Flooring

1. Provide entrance flooring as shown at each entrance with a new canopy as manufactured by Milliken
 - a. Obex Bar Cutx
 - b. Color: Grey
 - c. Install per manufacturer's specifications.

C. Under Counter Dishwasher:

1. Provide ADA Under Counter Dishwashers as shown on drawings. Quantity: As indicated on drawings.
2. Finish to be stainless steel with stainless steel interior 24" wide nominal x 24" deep nominal (32-1/4"H x 23-3/4"W x 23-1/2"D).
3. Provide models by:
 - a. GE #GDT225SSLSS
 - b. Whirlpool #WDF5505AHS
4. Only one manufacturer shall be used.

D. Microwave:

1. By Owner. Installed by Contractor.

E. Oven/Range & Hood:

1. By Owner. Installed by Contractor.

PART 3 - EXECUTION

3.01 INSPECTION:

- A. Installer must examine the substrates and conditions under which the specialties are to be installed, and notify the General Contractor and Architect in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Installer.

3.02 INSTALLATION:

- A. In addition to the requirements of these specifications, comply with manufacturer's instructions and recommendations for preparation of substrate, installation of anchors, and application of specialties. Coordinate with work of other trades for application of inserts of other integral equipment items.
- B. Install at the locations shown or scheduled, securely mounted with concealed fasteners, unless otherwise shown. Attach to substrates in accordance with the manufacturer's instructions, unless otherwise shown.
- C. Install level, plumb and at the proper height. Cooperate with other trades for installation in finish surface. Repair or replace damaged units as directed by the Architect.

END OF SECTION 10999

MACOMB COUNTY
 COUNTY WAREHOUSE - F & O and
 PURCHASING OFFICES RENOVATION
 WAKELY PROJECT #242053

PRE-BID MEETING
 SIGN-IN SHEET
 November 7, 2024
 10:00 a.m.

NAME	FIRM	PHONE NO.	EMAIL
REIT SHETLER	REPAIRS INC	313-410-7877 (248) 453-8385	REIT@REPAIRS.COM
KEVIN BOND	LMM		KBOND@LMM.US
TOM REIBITZ	ALLIED	313.580.6813	treibitz@teamallied.com
MATT SPIRAN	SPARTAN CONSTRUCTION GROUP	734-331-5261	matt@spartan-constructiongroup.com
LAFONTE TRAVIS	PROSI	248-332-3011 58 485-3200	lfontetravis@prosicontractors.com
TROY CATHRICK	BRUCE INC	313 717-5278	Bruce@bruceinc.com
STEVE TRANKHOFFER	KEO + ASTOR		stevetr@keoastor.com
NICK VESTRICH	FRANK REYNOLD + SONS	248-229-8232	nvestrich@frankreynold.com
BOB JELSONE	HOLCAMP/JELSONE	586-943-2768	rvj@jelsonemail.com
MARUPEKLA ZIEMSKI	PURVIDA	586-405-4550	marupek@ziemski.com
MALIK AWARDEH	SUPERVISOR	917.593-8154	Malik-Awarden98@yahoo.com
WALLENSTILLIAMS	WALLEN-STEET	586-634-3709	wallenstille@wallen-street.com
DAN MATHPODAR	QUADRA TECH	586-824-3712	Dan@quadratech.com



MACOMB COUNTY BOARD OF COMMISSIONERS

F & O / PURCHASING OFFICE RENOVATION

VIC WERTZ BUILDING

ISSUED FOR: BID SET
DATE: OCTOBER 31, 2024
PROJECT NO.: 242053

ARCHITECT:

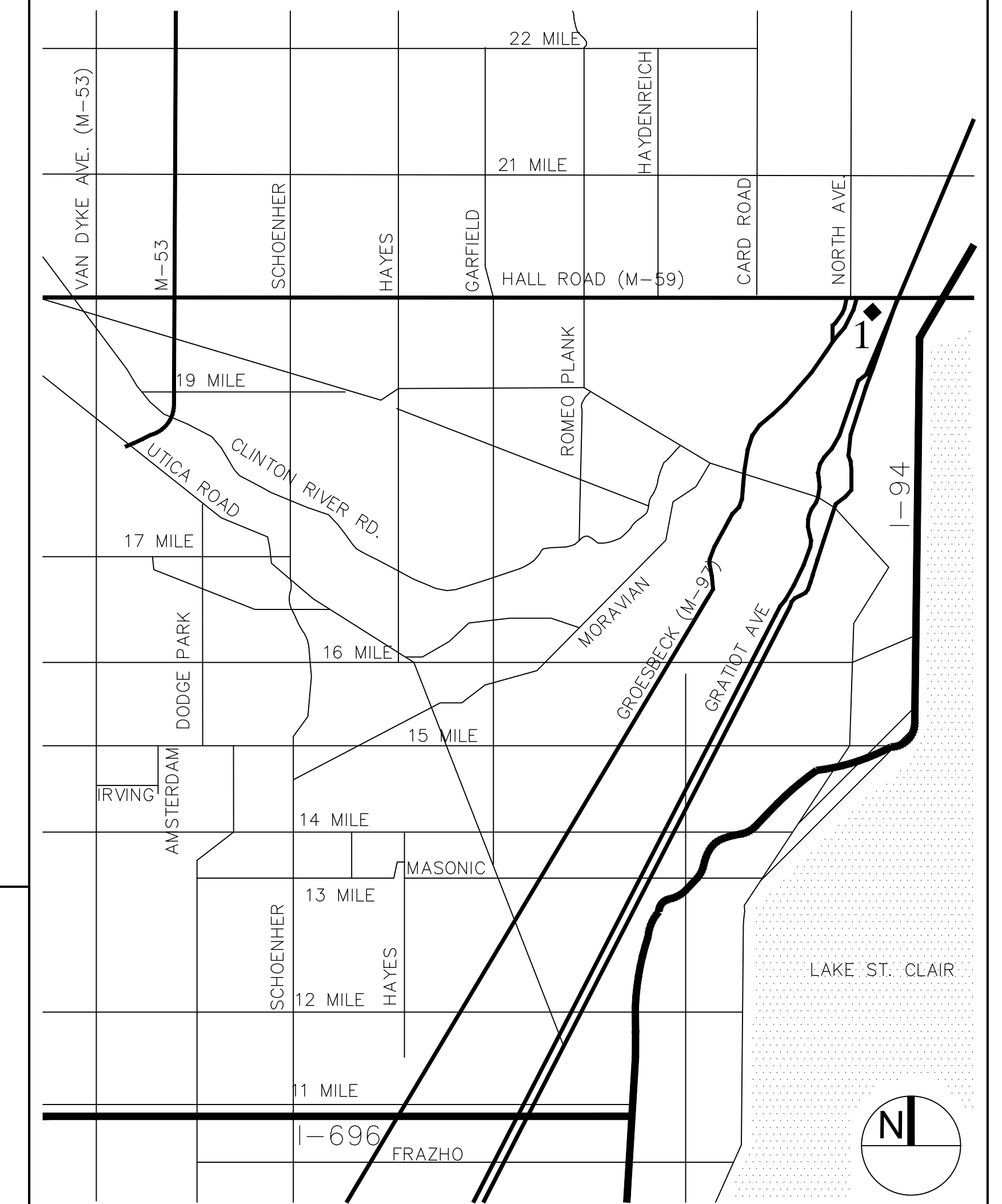
 WAKELY ASSOCIATES, INC./ ARCHITECTS
30500 VAN DYKE AVE, SUITE 209, WARREN, MI 48093, 586.573.4100

MECHANICAL/ ELECTRICAL ENGINEERS:

 UNIFIED BUILDING SYSTEMS ENGINEERING, LLC
75 N. MAIN ST. SUITE 221, MT. CLEMENS, MI 48043, 248.804.1741

STRUCTURAL ENGINEER:

 ANDERSON, ECKSTEIN, & WESTRICK, INC.
51301 SCHOENHERR RD, SHELBY TOWNSHIP, MI 48315, 586.726.1234

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GENERAL DRAWINGS:	
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G2.0	GENERAL INFO
G3.0	KEYNOTES
ARCHITECTURAL DRAWINGS:	
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AD1.0	DEMOLITION PLANS
A1.0	COMPOSITE FLOOR PLAN - FIRST FLOOR AND SECOND FLOOR
A1.0A	COMPOSITE ROOF PLAN
A1.1	ENLARGED FLOOR PLANS
A1.2	FLOOR FINISH PLAN
A1.3	FURNITURE PLAN
A2.0	REFLECTED CEILING PLAN
A3.0	ELEVATIONS
A4.0	SECTIONS
A9.1	DOOR, FINISH, AND SIGNAGE SCHEDULES
MECHANICAL DRAWINGS:	
M0.00	MECHANICAL GENERAL INFORMATION
M1.00	MECHANICAL COMPOSITE FIRST AND SECOND FLOOR PLANS
PD1.10	PLUMBING DEMOLITION FIRST FLOOR PLAN
MD1.10	MECHANICAL DEMOLITION FIRST FLOOR PLAN
MD2.10	MECHANICAL DEMOLITION ROOF PLAN
P1.10	PLUMBING NEW WORK FIRST FLOOR PLAN
M1.10	MECHANICAL NEW WORK FIRST FLOOR PLAN
M2.10	MECHANICAL NEW WORK ROOF PLAN
M5.00	MECHANICAL DETAILS
M6.00	MECHANICAL SCHEDULES
M7.00	TEMPERATURE CONTROLS
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E1.00	ELECTRICAL POWER COMPOSITE FIRST AND SECOND FLOOR PLANS
EPD1.10	ELECTRICAL POWER DEMOLITION FIRST FLOOR PLAN
ELD1.10	ELECTRICAL LIGHTING DEMOLITION FIRST FLOOR PLAN
ED2.10	ELECTRICAL POWER DEMOLITION ROOF PLAN
EP1.10	ELECTRICAL POWER NEW WORK FIRST FLOOR PLAN
EL1.10	ELECTRICAL LIGHTING NEW WORK FIRST FLOOR PLAN
EP2.10	ELECTRICAL POWER NEW WORK ROOF PLAN
E5.00	ELECTRICAL DETAILS
E6.00	ELECTRICAL PANEL SCHEDULES
E7.00	ELECTRICAL ONE-LINE RISER DIAGRAMS
Building Addresses	
1	VIC WERTZ BUILDING 4490 VIC WERTZ DRIVE CLINTON TOWNSHIP, MI 48036
Location Map	
	

ENGINEER SEAL:	ARCHITECT SEAL:
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WAKELY ASSOCIATES, INC.
ARCHITECTS

30500 VAN DYKE AVENUE
SUITE 209
WARREN, MICHIGAN 48093
PH: 586.573.4100
FX: 586.573.0822
www.WakelyAIA.com

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

GENERAL NOTES & KEYNOTES

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: DCW/ML
CHECKED BY: RS/DCW

REVISIONS
ADDENDUM No. 1 11-7-2024

DATE: OCTOBER 31, 2024
SHEET NO.

G3.0

JOB NO.
242053

NEW WORK KEY NOTES - FLOOR PLAN:

- 1.01 PROVIDE NEW SOFFIT DROP OVER ALL DEMOUNTABLE PARTITIONS IN PURCHASING AREA ONLY. (SEE DETAIL 13 ON SHT. A1.1)
- 1.02 REMOVE ALL GYP. BOARD AND TRIM AROUND WINDOWS. REPLACE EXISTING GYP. BRD. AND WINDOW SILL WITH NEW SOLID SURFACE WINDOW SILL. CAULK BETWEEN DISSIMILAR MATERIALS.
- 1.03 LOCATION OF NEW WALL HUNG TV (BY OWNER). PROVIDE REINFORCING IN DE-MOUNTABLE WALL. PROVIDE POWER AND DATA FOR NEW TV. (SEE ELEC. DRAWINGS)
- 1.04 EXTEND NEW PARTITION INTO EXISTING WINDOW OPENING AND TIE INTO EXISTING MULLION. CAULK BETWEEN DISSIMILAR MATERIAL.
- 1.05 BELOW WINDOW: FUR OUT EXISTING EXTERIOR WALL W/ 2" HAT CHANNELS. INSTALL 2" RIGID INSULATION OVER ENTIRE WALL AND COVER WITH (1) LAYER OF 1/2" HIGH ABUSE GYP. BRD. PAINTED.
ABOVE WINDOW: FUR OUT EXISTING WALL WITH 6" METAL STUDS AT 16" O.C. W/ 2" RIGID INSULATION FASTENED TO EXISTING EXTERIOR WALL. INSTALL 1/2" HIGH ABUSE GYPSUM BOARD PAINTED. CONSTRUCT POCKETS FOR ROLLER SHADES. COORDINATE WITH SHADE MANUFACTURER AND SUPPLIER. (SEE DETAIL)
- 1.06 CONSTRUCT NEW 3/8" METAL STUD HEAD W/ MINERAL WOOL INSULATION AND (1) LAYER OF 1/2" GYP. BRD. EACH SIDE (PAINTED) ABOVE ALL DEMOUNTABLE PARTITIONS IN PURCHASING AREA ONLY. F&O AREA IS OPEN TO EXISTING STRUCTURE.
- 1.07 CORE NEW HOLE IN EXISTING CONCRETE MASONRY WALL FOR NEW MECHANICAL SYSTEM. SEE MECHANICAL DRAWINGS FOR EXACT SIZE.
- 1.08 OPEN EXISTING CONCRETE MASONRY WALL FOR NEW MECHANICAL SYSTEM. SEE MECHANICAL DRAWINGS FOR EXACT SIZE. PROVIDE NEW PRE-CAST CONCRETE LINTEL FOR OPENING MIN. 6" BEARING EACH SIDE.
- 1.09 STUFF ALL EXISTING PENETRATIONS IN EXISTING WALLS AND FIRE CAULK. INSTALL FIRE SPRAY ON ENTIRE CEILING IN VESTIBULE A103 FOR A 2 HR. FIRE SEPARATION.
- 1.10 PREPARE EXISTING MASONRY WALL AND INSTALL 24"x12" PORCELAIN CERAMIC TILE ON WALL FROM FLOOR TO 8'-0" TALL. PAINT WALL ABOVE. INSTALL CUSTOM OPAQUE GLASS WITH ETCHED MACOMB HISTORY PROVIDED THROUGH THE COUNTY. PANELS OF GLASS SHALL BE INSTALLED WITH STAND-OFFS FASTENED TO THE NEW TILE AND MASONRY WALL.
- 1.11 OPEN UP EXISTING GYPSUM BOARD WALLS FOR INSTALLATION OF NEW SANITARY LINE AND PLUMBING FIXTURES. REPAIR WALLS AS REQUIRED AND PAINT TO MATCH.
- 1.12 INFILL EXISTING DOOR W/ 3/8" MTL. STUDS AT 16" O.C. W/ SOUND ATTENUATING INSULATION AND (1) LAYER OF 1/2" HIGH ABUSE GYP. BRD. EACH SIDE PAINTED.
- 1.13 PROVIDE 6" MIN. 3/8" MTL. STUD CHASE FROM CEILING TO FLOOR FOR POWER AND OTHER ITEMS TO TRANSVERSE DOWN. (TYPICAL)
- 1.14 INSTALL NEW CLUTCH OPERATED FLEX SHADE IN BOX OUT HEAD DETAIL. (SEE DETAIL)
- 1.15 DEMOLISH PORTION OF EXISTING ROOF TO PREPARE FOR NEW MECHANICAL CURB INSTALLATION. PROVIDE ALL REQUIRED SUPPORT STEEL FOR ROOF DUCTWORK PENETRATIONS. AFTER NEW CURB IS INSTALLED FLASH AND ROOF IN AS REQUIRED FOR A WATERTIGHT SOLUTION. EXISTING ROOF IS MANUFACTURED BY TREMCO. PROVIDE A CERTIFIED TREMCO INSTALLER TO PERFORM WORK SO WARRANTY IS NOT VOIDED. PROVIDE TREMCO APPROVED WALK MATS AROUND ENTIRE PERIMETER OF NEW ROOF TOP UNIT.
- 1.16 DEMOLISH PORTION OF EXISTING ROOF TO PREPARE FOR NEW SUN DOME AND TUNNEL BY VELUX THROUGH THE EISEN GROUP 248-319-7763. PROVIDE REQUIRED CURB AND ROOF PENETRATION INCLUDING 3x3x1/2" SUPPORT STEEL ANGLE FOR OPENING. FLASH AND ROOF IN AS REQUIRED FOR A WATERTIGHT SOLUTION. EXISTING ROOF IS MANUFACTURED BY TREMCO. PROVIDE A CERTIFIED TREMCO INSTALLER TO PERFORM WORK SO WARRANTY IS NOT VOIDED.

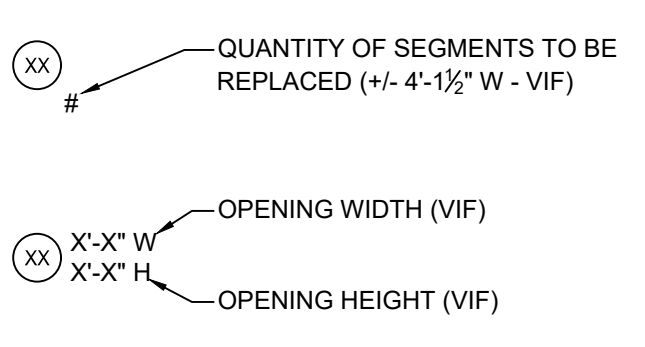
DEMOLITION KEY NOTES - FLOOR PLAN:

- 1 REMOVE EXISTING WOOD DOOR, FRAME AND HARDWARE COMPLETE. DISPOSE OF DOOR AND FRAME. SALVAGE ALL EXISTING HARDWARE AND HAND OVER TO OWNER.
- 2 REMOVE EXISTING WALL COMPLETE.
- 3 REMOVE EXISTING FLOOR COVERING COMPLETE INCLUDING RUBBER BASE.
- 4 REMOVE EXISTING LAY-IN CEILING COMPLETE. PREP FOR NEW LAY-IN CEILING AND LIGHTING. (SEE ELEC. DRAWINGS)
- 5 REMOVE TOILET AND PLUMBING COMPLETE. SAWCUT EXISTING CONC. FLOOR AS REQ'D. CAP EXISTING PLUMBING BELOW GRADE. PATCH EXISTING FLOOR AS REQUIRED. (SEE MECH. DRAWINGS)
- 6 REMOVE SINK AND PLUMBING COMPLETE. OPEN EXISTING WALL AS REQ'D. CAP EXISTING PLUMBING BELOW GRADE. (SEE MECH. DRAWINGS)
- 7 CUT A 4'-0"x4'-0" WINDOW IN EXISTING MASONRY WALL. PROVIDE NEW PRECAST LINTEL AT EACH OPENING W/ MIN. 8" BR'G. EACH SIDE.
- 8 REMOVE EXISTING WALLBOARD COMPLETE INCLUDING FURRING STRIPS.
- 9 REMOVE EXISTING WINDOW SILL.
- 10 REMOVE ALL EXISTING TOILET ROOM ACCESSORIES AND REPLACE WITH NEW. SEE PLAN DETAILS.
- 11 REMOVE EXISTING ALUMINUM STORE FRONT SYSTEM COMPLETE INCLUDING ALL HARDWARE. PATCH EXISTING WALLS AS REQUIRED WITH LIKE MATERIALS.
- 12 REMOVE EXISTING ALUMINUM VESTIBULE SYSTEM COMPLETE. PATCH ALL EXISTING WALLS AS REQUIRED WITH LIKE MATERIALS.
- 13 SAWCUT AND REMOVE EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW ELECTRICAL FLOOR BOX AND UNDERGROUND CONDUIT INSTALLATION. PROVIDE NEW 4" CONCRETE SLAB W/ #5 BARS (EACH SIDE) @ 12" O.C. EPOXY SET (EMBED 4" MIN.) ON 15 MIL. VAPOR BARRIER OVER 4" MIN. GRANULAR FILL. PROVIDE EXPANSION PAPER AS REQUIRED.
- 14 SAWCUT AND REMOVE EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW SANITARY LINE INSTALLATION. PROVIDE NEW 4" CONCRETE SLAB W/ #5 BARS (EACH SIDE) @ 12" O.C. EPOXY SET (EMBED 4" MIN.) ON 15 MIL. VAPOR BARRIER OVER 4" MIN. GRANULAR FILL. PROVIDE EXPANSION PAPER AS REQUIRED.
- 15 REMOVE EXISTING GYPSUM BOARD COMPLETE INCLUDING FURRING DOWN TO EXTERIOR WALL. REMOVE FIN-TUBE RADIATION. COMPLETE (SEE MECH.)
- 16 REMOVE EXISTING HORIZONTAL BLINDS AND HANGING HARDWARE COMPLETE.

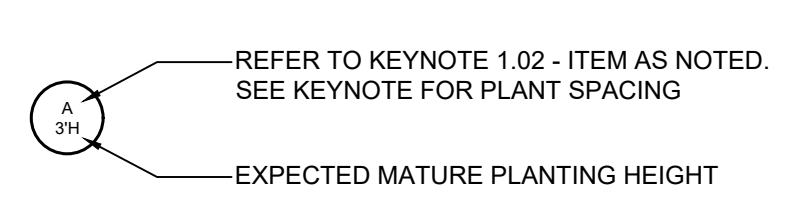
NEW WORK PLAN - GENERAL NOTES: (APPLIES TO ALL ROOMS)

- 1. ALL DIMENSIONS TO EXISTING ELEMENTS TO BE CONSIDERED +/- (V.I.F.)
- 2. PATCH, PREP, & PAINT ALL AREAS DISTURBED BY CONSTRUCTION
- 3. REMOVE, SALVAGE, & REINSTALL ALL EXIST SIGNAGE ON EXIST DOORS TO BE REPLACED (VIF)
- 4. PREP & PAINT EXISTING CONSTRUCTION TO MATCH EXISTING AT ALL AREAS OF DEMO'D MECH / ELEC FIXTURES (I.E. SURFACE MOUNTED LIGHTS, EXIT LIGHTING, ELEC PANELS, ETC.)
- 5. REMOVE & REPLACE EXISTING ACOUSTIC CEILING TILES, GRILLES, REGISTERS, AND DIFFUSERS AS REQUIRED FOR NEW WORK - SEE MECH & ELEC DWGS
- 6. ALL OUTSIDE CORNERS OF ALL NEW PLASTIC LAMINATE COUNTERTOP TO HAVE A RADIUS.
- 7. IN AREAS TO RECEIVE NEW FLOORING, CONTRACTOR TO PROTECT EXISTING EQUIPMENT TO REMAIN (E.G., PROJECTORS, DIGITAL DISPLAYS, SOUND SYSTEM AMPLIFIERS, WIRELESS ACCESS POINTS, ETC.) IN EACH ROOM AFFECTED - BY OTHERS.
- 8. IN AREAS TO RECEIVE NEW CEILING SYSTEMS, CONTRACTOR TO TEMPORARILY SUPPORT & PROTECT EXISTING TECHNOLOGY EQUIPMENT TO REMAIN AS REQUIRED FOR NEW WORK IN EACH ROOM AFFECTED - BY OTHERS.

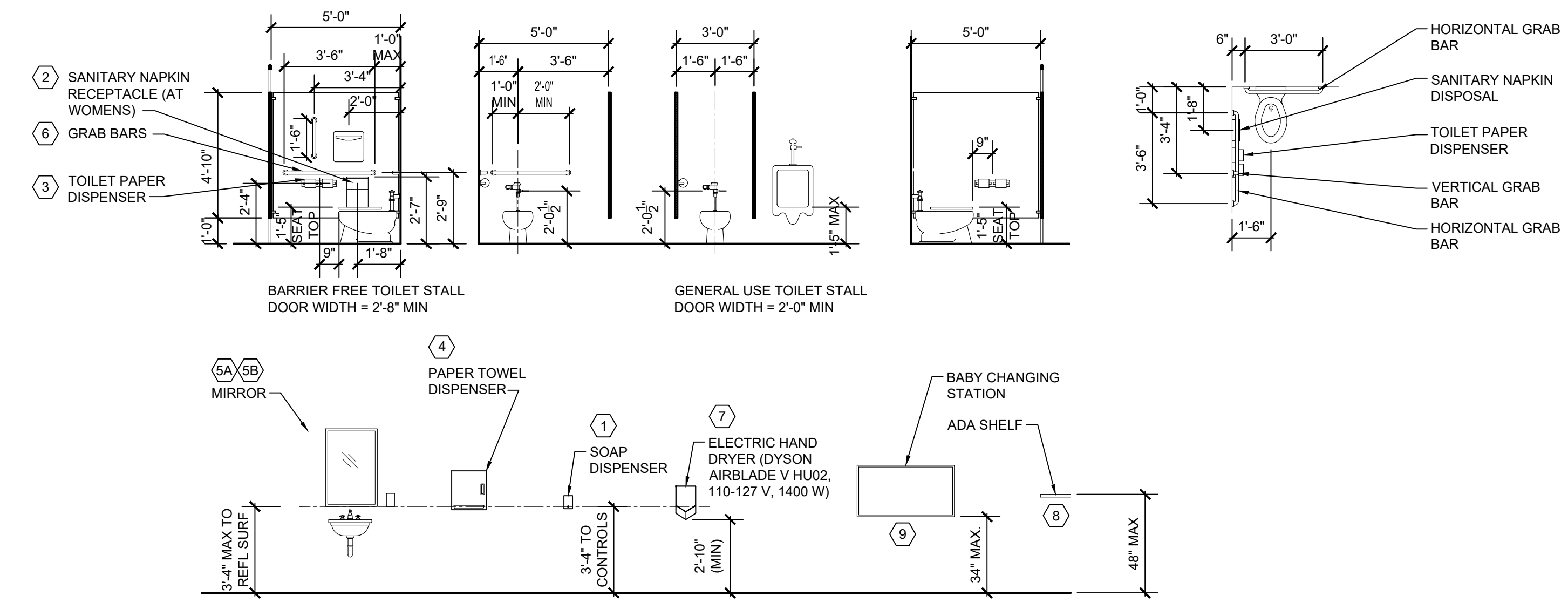
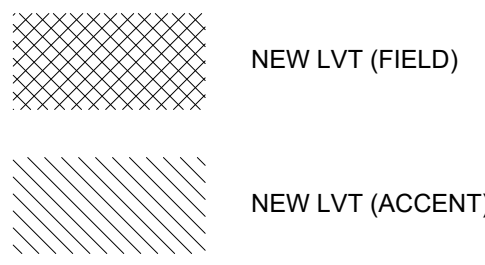
KEY NOTES LEGEND:



LANDSCAPE LEGEND:



FLOOR PLAN LEGEND:



TOILET ROOM FIXTURES & ACCESSORIES

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

TOILET ACCESSORY KEYNOTES:

- 1 SOAP DISPENSER (OF/CI)
- 2 SANITARY NAPKIN DISPOSAL (CF/CI)
- 3 TOILET TISSUE DISPENSER (OF/CI)
- 4 PAPER TOWEL DISPENSER (OF/CI)
- 5A MIRROR (CF/CI)
- 5B MIRROR W/ SHELF (CF/CI)
- 6 GRAB BARS (CF/CI)
- 7 ELECTRIC HAND DRYER (CF/CI) - SEE KEYNOTE 2.26
- 8 ST. STL. SHELF (CF/CI)
- 9 BABY CHANGING STATION

BUILDING CODE SUMMARY CONT.

EXIT REQUIREMENTS (B AND S ARE THE SAME UNLESS NOTED OTHERWISE):

DEAD END LIMIT-MAXIMUM CONDITION (1020.4 W/EXCEPTION #2) ALLOWED 50 FT. ACTUAL 15'-0" IN WORK AREA

TRAVEL DISTANCE TO EXIT-MAXIMUM CONDITION (TABLE 1017.2 W/SPRINKLER ALLOWED 250 FT. ACTUAL 149'-11" IN WORK AREA

COMMON PATH OF TRAVEL 1006.3.2 (2) (WITH SPRINKLER SYSTEM) ALLOWED 100 FT ACTUAL 149'-11" IN WORK AREA

NUMBER EXITS (PER STORY): REQUIRED (TABLE 1006.3.1) TOTAL OCCUPANT LOAD 205 + 365 = 570 OCCUPANTS REQUIRED (3) ACTUAL (15) REQUIRED IN BUSINESS AREA = 205 OCCUPANTS REQUIRED (2) ACTUAL (3)

DESIGN LOADS: (SEE STRUCTURAL DRAWINGS) ROOF LIVE LOAD: 20 PSF WIND: 90 MPH, 23 PSF FLOOR: 100 PSF 1ST FLOOR CORRIDORS, 1000# CONCENTRATED SNOW: 30 PSF SEISMIC: SDS = 0.095 SD1 = 0.072 DESIGN CAT B LATERAL DESIGN: 21 PSF SOIL BEARING CAPACITIES: ASSUMED NET SOILS BEARING CAPACITY = 2000 PSF SPECIAL APPROVAL BY LOCAL JURISDICTION, DESCRIBE BELOW: N/A

BUILDING CODE SUMMARY CONT.

2021 MICHIGAN PLUMBING CODE

1 WATER CLOSET/ 100 MALES: 183/100 = (2) WATER CLOSETS REQUIRED EXISTING: 4 WC, 3 URINALS

1 WATER CLOSET/ 100 FEMALES: 183/100 = (2) WATER CLOSETS REQUIRED EXISTING: 6 WC

1 LAV/PER 100 MALES = (2) LAVS REQUIRED EXISTING: 1 LAV AND A HALF BRADLEY IN GANG TOILET ROOMS

1 LAV/PER 100 FEMALES = (2) LAVS REQUIRED EXISTING: 1 LAV AND A HALF BRADLEY IN GANG TOILET ROOMS

MINIMUM REQUIRED FOR THE ENTIRE FACILITY B AND S-1/S-2:

	MALE WATER CLOSETS	URINALS	LAVS	FEMALE WATER CLOSETS	LAVS
B	3	-	3	3	3
S-1/S-2	2	-	2	2	2
TOTALS	5	-	5	5	5

PROVIDED (NEW AND EXISTING) FOR THE ENTIRE FACILITY B AND S-1/S-2: (NOTE: NEW UNISEX TOILET ROOMS NOT COUNTED) HALF BRADLEY COUNTED AS 4 LAVS

	MALE WATER CLOSETS	URINALS	LAVS	FEMALE WATER CLOSETS	LAVS
B	1	-	1	1	1
S-1/S-2	4	3	4*	6	4*
TOTALS	5	3	6	7	6

TOTAL EXISTING AND NEW FIXTURES GREATER THAN QUANTITY NEEDED IN FACILITY

BUILDING CODE SUMMARY

PROJECT: MACOMB COUNTY - COUNTY WAREHOUSE FACILITIES AND OPERATIONS AND PURCHASING OFFICE RENOVATIONS RENOVATION
ADDRESS: COUNTY WAREHOUSE 44900 VIC WERTZ DRIVE, CLINTON TWP, MICHIGAN 48036
PROPOSED USE: EXISTING FACILITY - MIXED USE B, S-1 AND S-2 RENOVATION OF BUSINESS AREA OF THE FACILITY UNDER 2015 MRC AND 2015 MEC, 2021 MMC, 2021 MPC AND 2023 NEC (MICHIGAN ELECTRICAL CODE)

REFERENCE CODES:
RENOVATION: MICHIGAN REHABILITATION CODE, 2015 EDITION
BUILDING: MICHIGAN BUILDING CODE, 2015 EDITION
MECHANICAL: MICHIGAN MECHANICAL CODE, 2021 EDITION
PLUMBING: MICHIGAN PLUMBING CODE, 2021 EDITION
ELECTRICAL: MICHIGAN ELECTRICAL CODE, 2023 NEC WITH PART 8 TECHNICAL AMENDMENTS
ENERGY: MICHIGAN ENERGY CODE, 2015 EDITION

BUILDING DATA
USE GROUP: () ASSEMBLY () INSTITUTIONAL () BUSINESS () MERCANTILE () EDUCATIONAL () RESIDENTIAL () FACTORY-INDUSTRIAL-LOW HAZARD (X) STORAGE-LOW HAZARD (S-2) () FACTORY-INDUSTRIAL-MODERATE HAZARD (X) STORAGE-MOD. HAZARD (S-1) () HIGH HAZARD () UTILITY MISCELLANEOUS

CONSTRUCTION TYPE
() TYPE 1A - PROTECTED () TYPE 3 - PROTECTED () TYPE 1B - PROTECTED () TYPE 3 - UNPROTECTED () TYPE 2A - PROTECTED () TYPE 4 - HEAVY TIMBER (X) TYPE 2B - UNPROTECTED () TYPE 5 - PROTECTED () TYPE 5 - UNPROTECTED (X) MIXED CONSTRUCTION TYPE - SEPARATED (B, S-1 TO S-2)

SPRINKLED? (X) REQUIRED (X) PROVIDED
BUILDING HEIGHT: PERMITTED: 3 STORIES (504.4), 75 FEET (WITH SPRINKLER SYSTEM - 504.2) TYPE 2B
ACTUAL: 2 STORY 25 FEET BUSINESS (B) 2 STORY 25 FEET STORAGE (S-1) 1 STORY 25 FEET STORAGE (S-2)

MEZZANINE: () YES (X) NO
HIGH RISE: () YES (X) NO

GROSS BUILDING AREA:
GRADE LEVEL: 103,012 S.F.
BASEMENT: NA
2ND LEVEL: 6,271 S.F.
TOTAL AREAS: 109,283 S.F.

WORK AREA (BUSINESS AREA)
GRADE LEVEL: 12,514 S.F.
2ND LEVEL: 0 S.F.
TOTAL: 12,514 S.F.
TOTAL AREA (BUSINESS AREA)
GRADE LEVEL: 15,214 S.F.
2ND LEVEL: 5,271 S.F.
TOTAL: 20,485 S.F.

20,485 S.F./12,514 S.F. = 60 - LEVEL 3 ALTERATION UNDER 2015 MRC

PARTY/FIREWALLS:
EXTERIOR BEARING WALLS (FIRE SEPARATION DISTANCE > 30 FEET)
NORTH 0
EAST 0
WEST 0
SOUTH 0

EXTERIOR NON-BEARING (FIRE SEPARATION DISTANCE > 30 FEET)
WALLS
NORTH 0
EAST 0
WEST 0
SOUTH 0

INTERIOR WALLS
BEARING 0
NON-BEARING 0
TENANT SEPARATION N/A - MACOMB COUNTY IS THE ONLY TENANT

FIRE SEPARATION ASSEMBLIES
EXIT ENCLOSURES: 2
CEILING-FLOORS ASSEMBLY: 0
BEAMS: 0
COLUMNS: 0
CEILING-ROOF ASSEMBLY: 0
VERTICAL SHAFTS: 2

MIXED OCCUPANCY SEPARATION
TENANT SEPARATION: 1 HOUR BETWEEN OCCUPANCY CLASSIFICATION B, S-1 TO S-2

EXIT ACCESS
CORRIDORS (1020.1): 0 (B AND S-1/S-2 ARE THE SAME)

LIFE SAFETY SYSTEMS:
EMERGENCY LIGHTING & EXIT SIGNS: (X) REQUIRED (X) PROVIDED
FIRE ALARMS: (X) REQUIRED (X) PROVIDED
SMOKE DETECTIONS SYSTEMS: (X) REQUIRED (X) PROVIDED
PANIC HARDWARE: (X) REQUIRED (X) PROVIDED
FIRE SUPPRESSION SYSTEM: (X) REQUIRED (X) PROVIDED
STANDPIPE SYSTEM: () REQUIRED () PROVIDED

OCCUPANT LOAD:
BUSINESS = 1 PERSON/100 GROSS SQUARE FEET
TOTAL AREA: 20,485 S.F.

20,485 S.F./100 = 205 PERSONS TOTAL CALCULATED. ACTUAL OCCUPANT LOAD LESS THAN 15 PERSONS IN EACH TOTAL WORK AREA WITH A UNISEX LAV.
103 FEMALE
103 MALE

2021 MICHIGAN PLUMBING CODE
1 WATER CLOSET/ 25 MALES FOR THE FIRST 50 MALES THEN 1 WC FOR EACH 50 MALES THEREAFTER = 2 WATER CLOSETS REQUIRED
EXISTING: 1 WATER CLOSET, 1 URINAL
NEW: 1 WATERCLOSET IN EACH NEW UNISEX LAVATORY - TOTAL OF 2.

1 WATER CLOSET/ 25 FEMALES FOR THE FIRST 50 FEMALES THEN 1 WC FOR EACH 50 FEMALES THEREAFTER = 2 WATER CLOSETS REQUIRED
EXISTING: 2 WATER CLOSETS
NEW: 1 WATERCLOSET IN EACH NEW UNISEX LAVATORY - TOTAL OF 2.

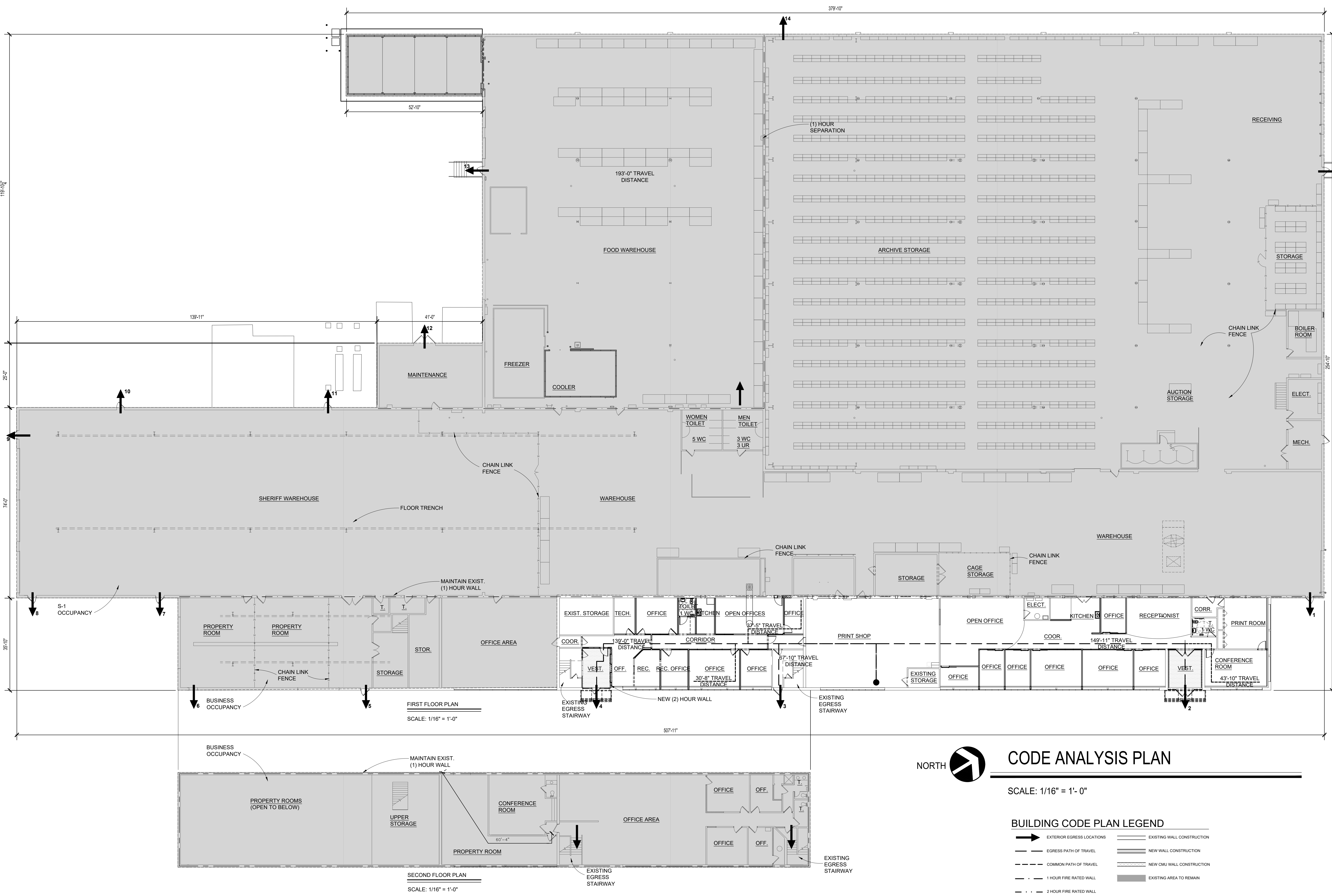
1 LAV/PER 40 MALES FOR THE FIRST 80 MALES THEN 1 PER EACH 80 MALES THEREAFTER = (2) LAVS REQUIRED
EXISTING: 1 LAV
NEW: 1 LAV IN EACH NEW UNISEX LAVATORY

1 LAV/PER 40 FEMALES FOR THE FIRST 80 FEMALES THEN 1 PER EACH 80 FEMALES THEREAFTER = (2) LAVS REQUIRED
EXISTING: 1 LAV MINIMUM

1 DRINKING FOUNTAIN/1000 PERSONS, 205 PERSONS IN BUSINESS OCCUPANCY = (1) DRINKING FOUNTAIN REQUIRED
EXISTING: 2 EXISTING. WATER WILL BE PRESENT IN NEW BREAKROOMS.

1 SERVICE SINK REQUIRED
EXISTING: 1 MINIMUM IN FACILITY

NOTE:
B OCCUPANCY AREAS ARE FREE TO USE TOILETS IN THE NON-SEPARATED S-1 AREAS.
STORAGE - S-1 AND S-2 AREA: 109,283 S.F.
109,283 S.F./300 S.F./PERSON = 365 PERSONS TOTAL CALCULATED
183 MALES
183 FEMALES



CODE ANALYSIS PLAN

SCALE: 1/16" = 1'-0"

BUILDING CODE PLAN LEGEND

→ EXTERIOR EGRESS LOCATIONS	— EXISTING WALL CONSTRUCTION
— EGRESS PATH OF TRAVEL	— NEW WALL CONSTRUCTION
— COMMON PATH OF TRAVEL	— NEW CMU WALL CONSTRUCTION
— 1 HOUR FIRE RATED WALL	— EXISTING AREA TO REMAIN
— 2 HOUR FIRE RATED WALL	

WA
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www.WakelyAIA.com

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

CODE ANALYSIS PLAN

PRELIMINARY
DESIGN DEVELOPMENT
CONSTRUCTION
FINAL RECORD

DRAWN BY: DCW/ML
CHECKED BY: RS/DCW

REVISIONS
ADDENDUM No. 1 11-7-2024

DATE: OCTOBER 31, 2024
SHEET NO.

LS1.0

JOB NO. 242053

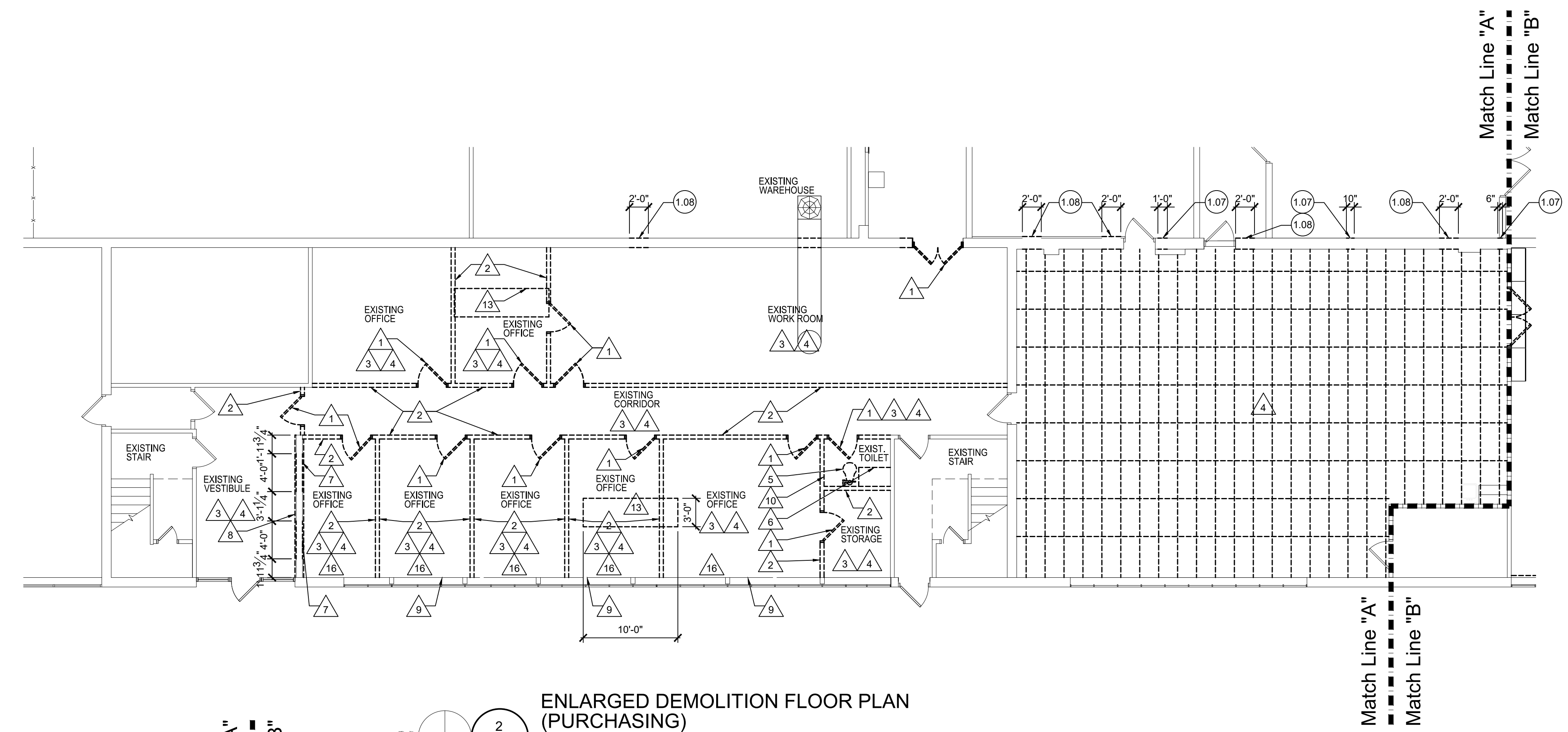
NEW WORK KEYNOTES:

SEE SHEET G3.0 FOR ALL KEYNOTES.

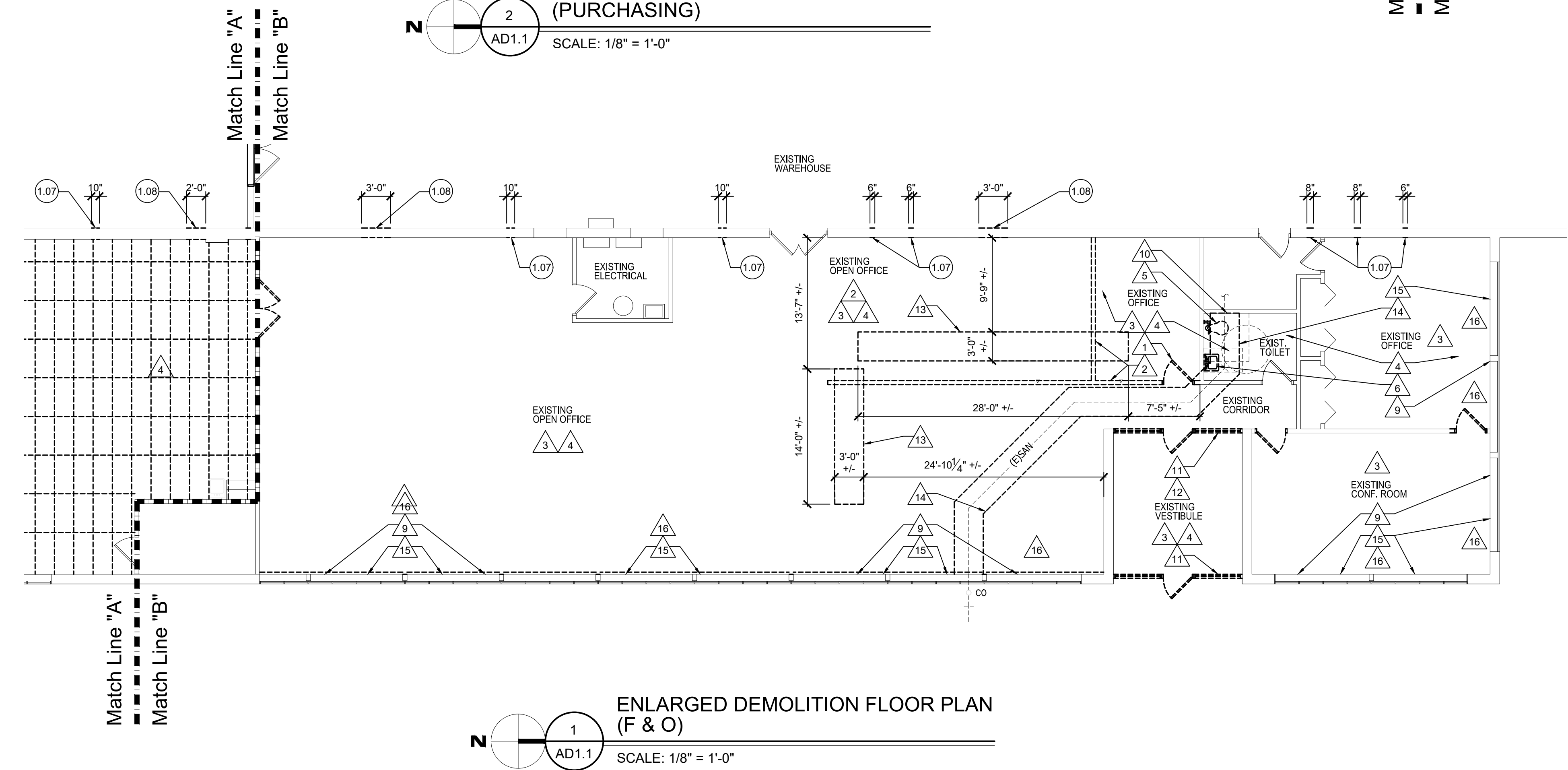


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ENLARGED DEMOLITION FLOOR PLAN
(PURCHASING)
SCALE: 1/8" = 1'-0"



ENLARGED DEMOLITION FLOOR PLAN
(F & O)
SCALE: 1/8" = 1'-0"

**MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING**

DEMOLITION PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: DCW/ML
CHECKED BY: RS/DCW

REVISIONS
ADDENDUM No. 1 11-7-2024

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MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

COMPOSITE PLANS

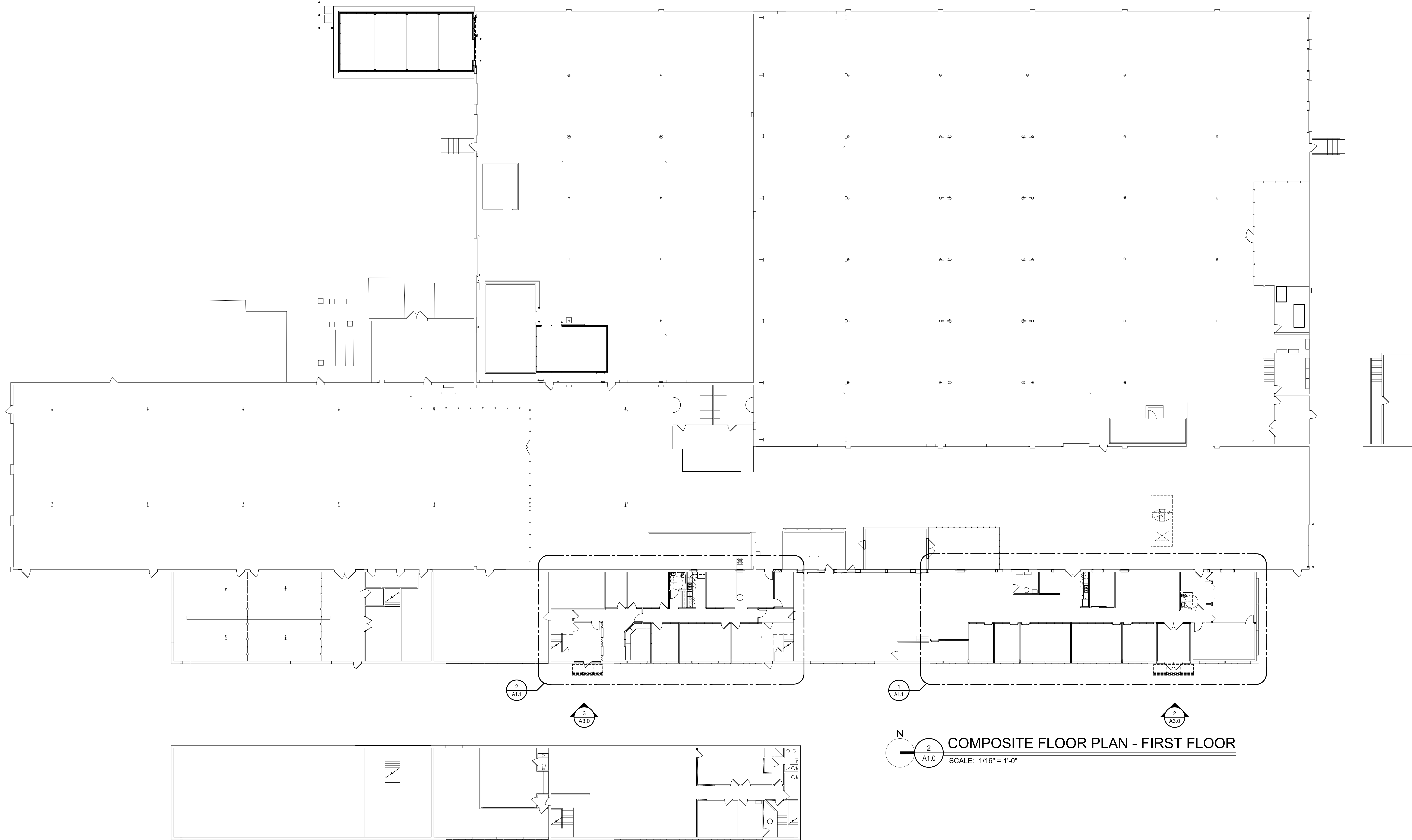
- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: DCW/ML
CHECKED BY: RS/DCW

REVISIONS
ADDENDUM No. 1 11-7-2024

DATE: OCTOBER 31, 2024
SHEET NO.

A1.0
JOB NO. 242053



COMPOSITE FLOOR PLAN - FIRST FLOOR
SCALE: 1/16" = 1'-0"

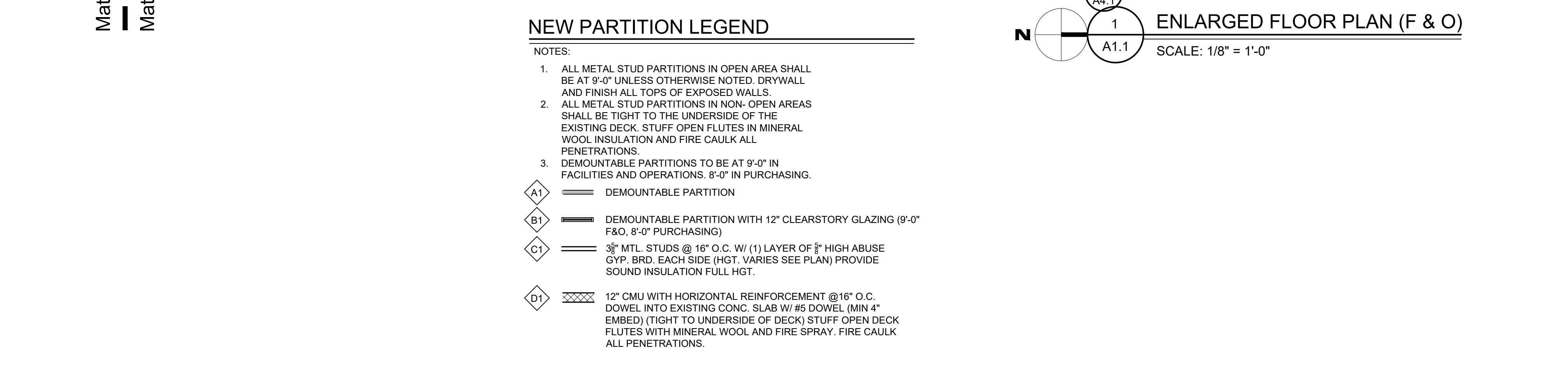
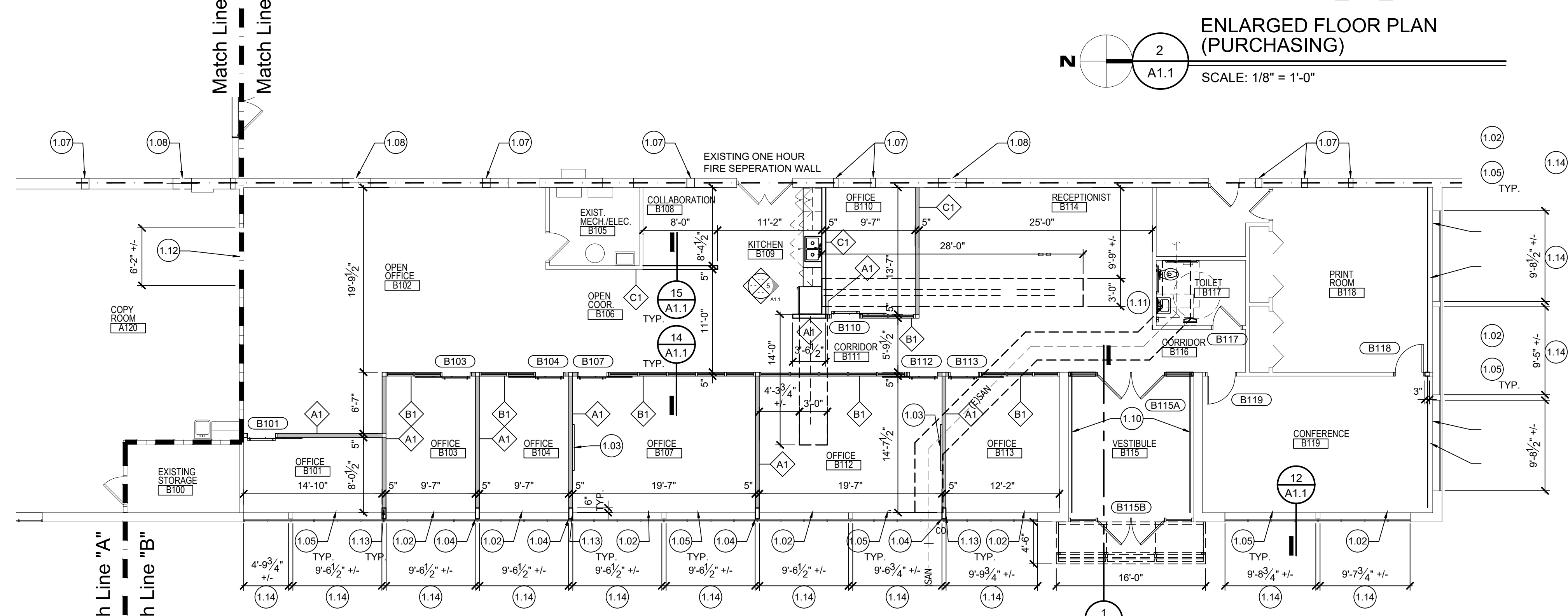
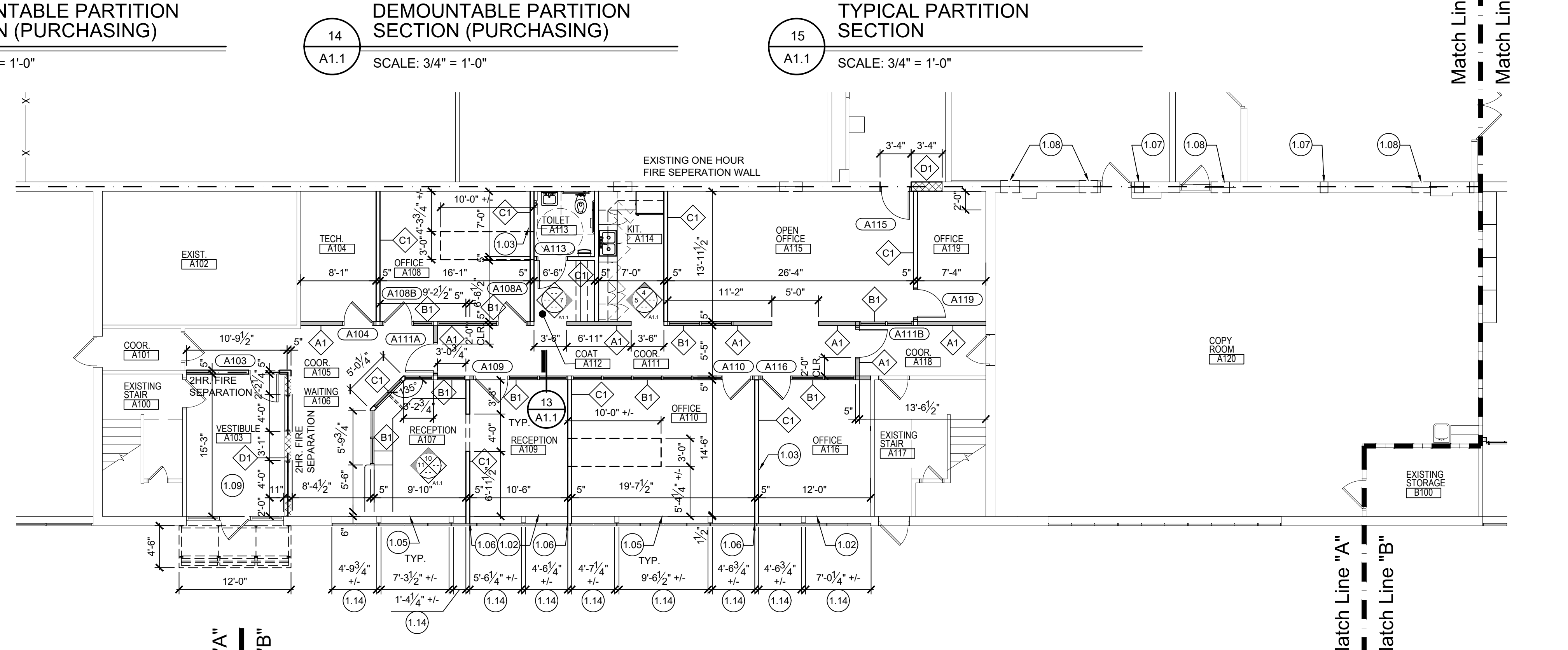
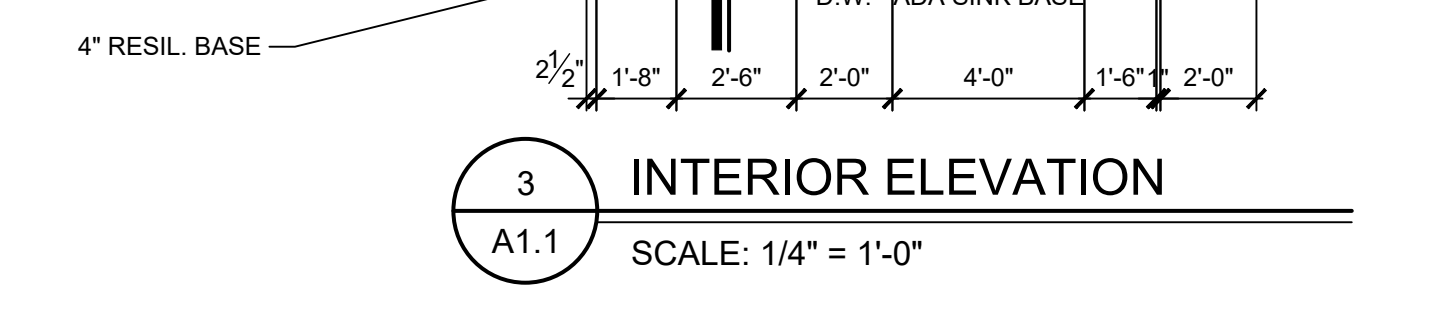
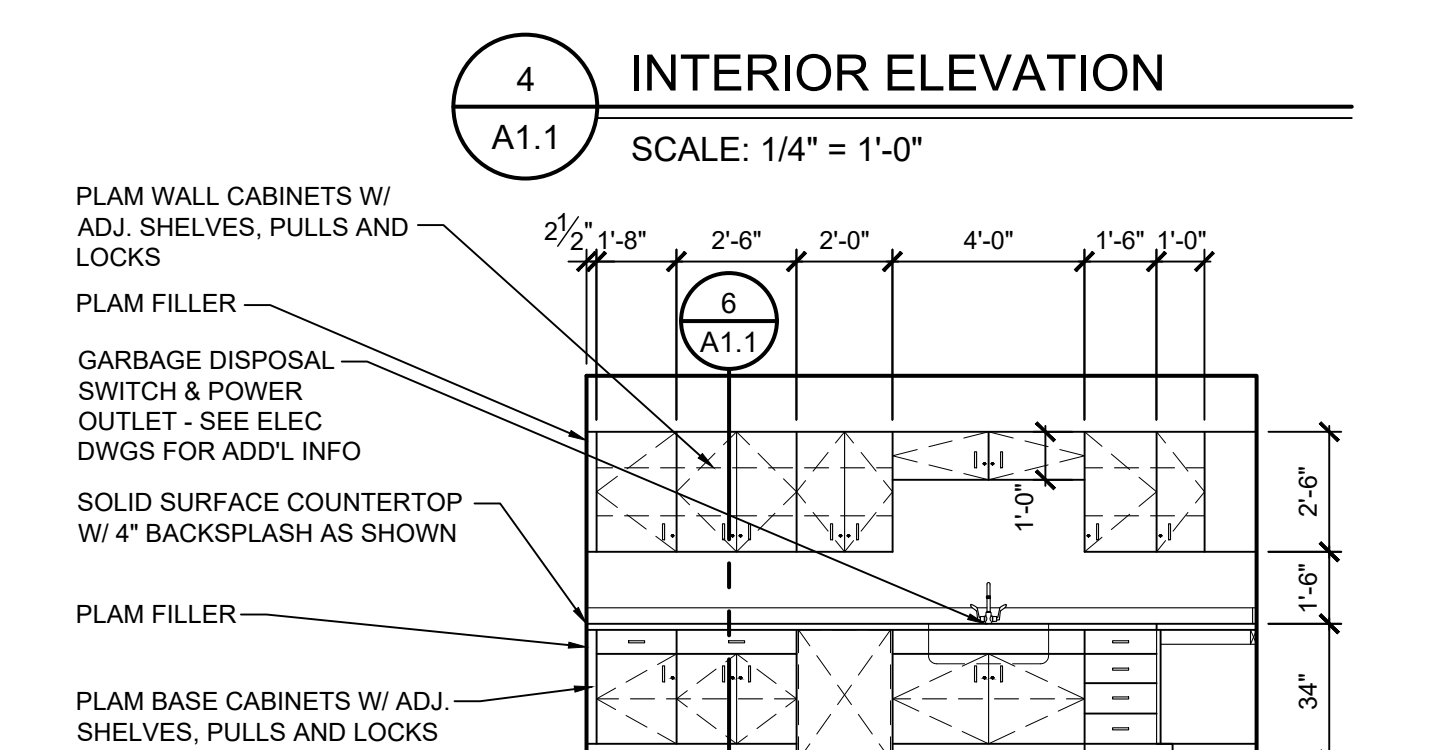
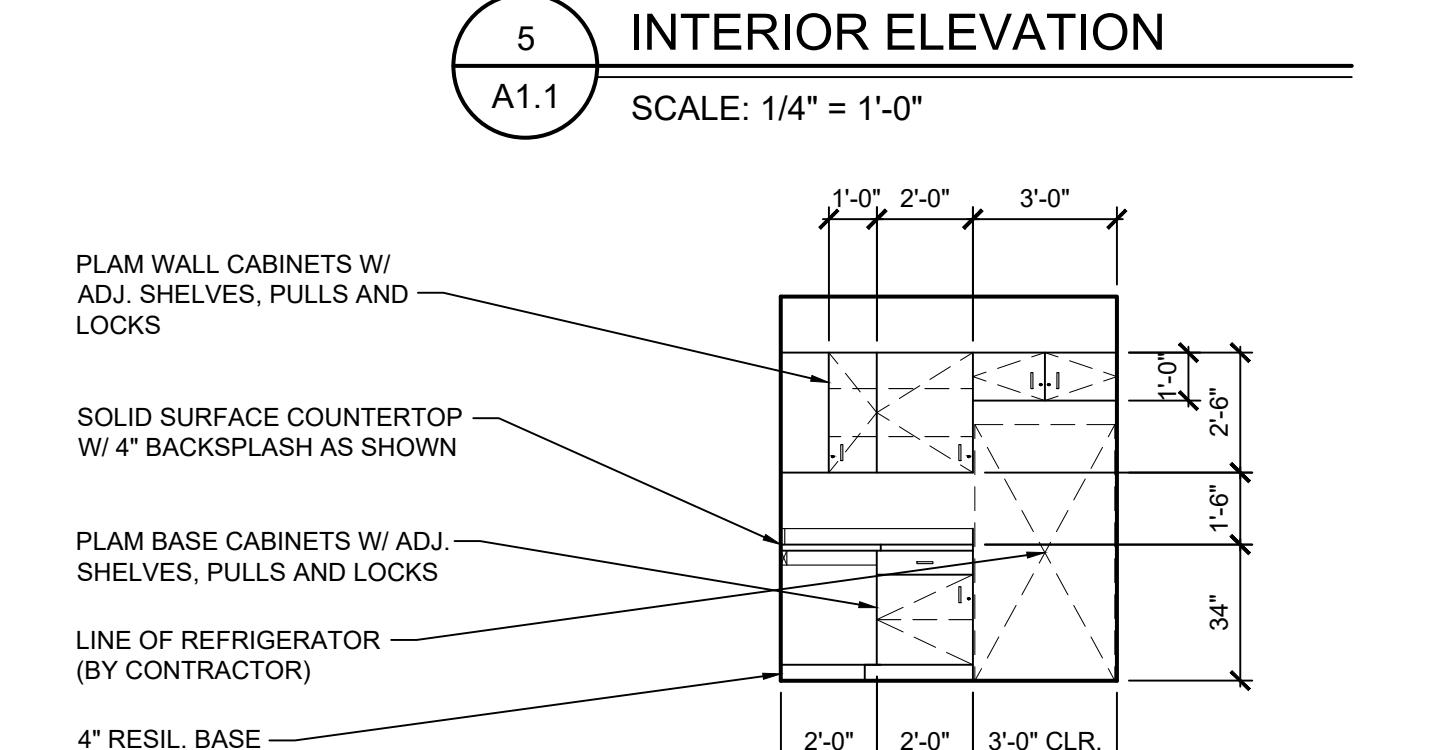
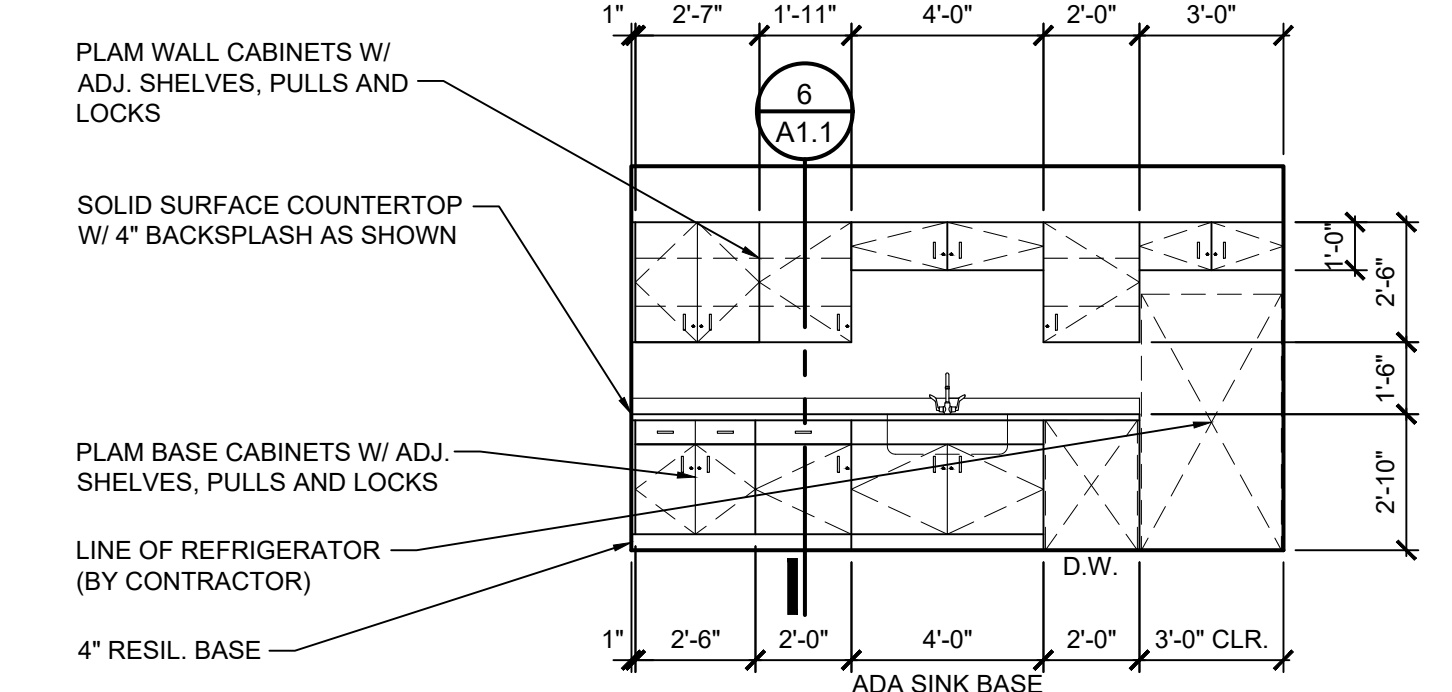
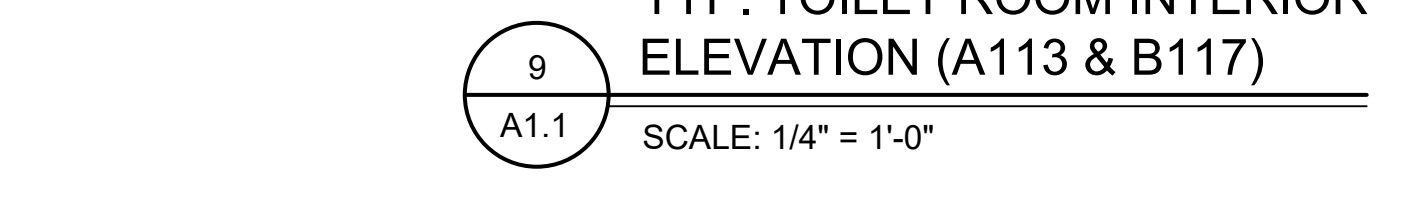
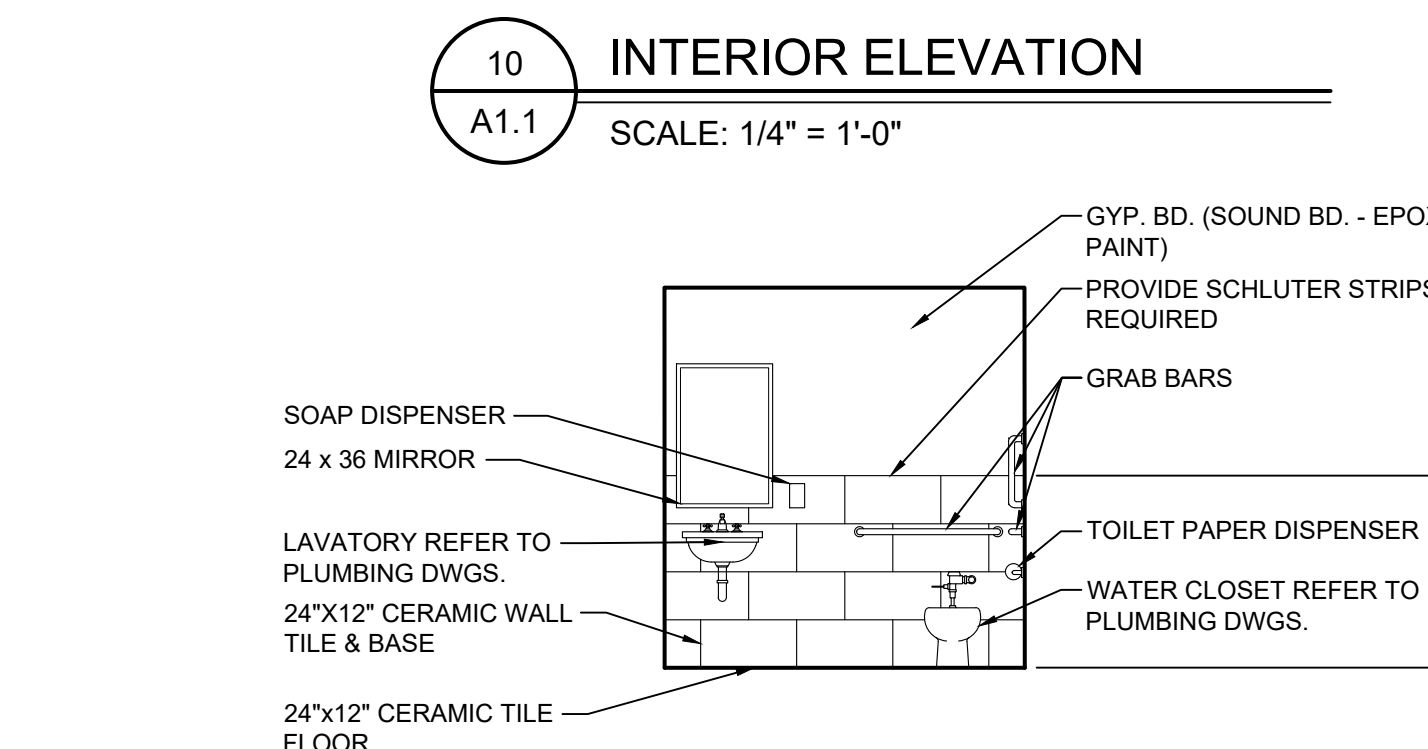
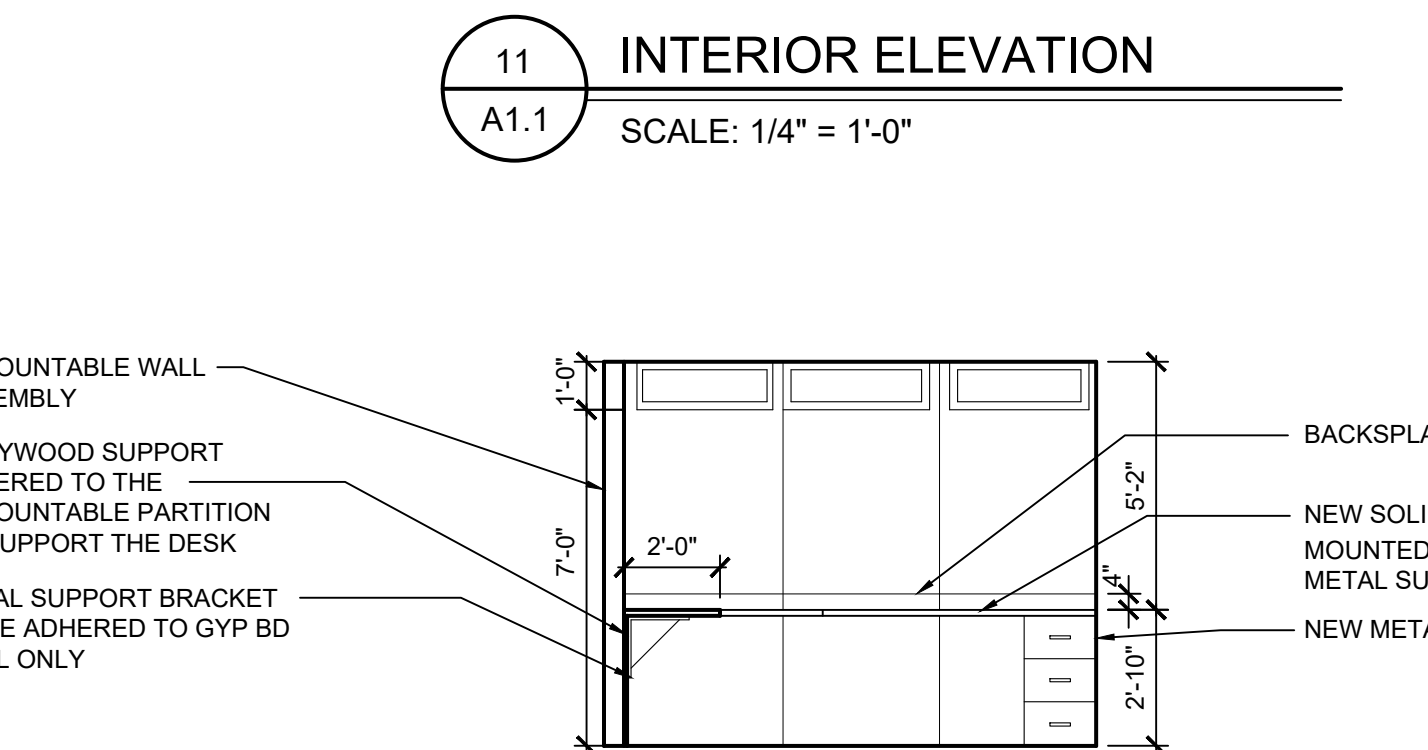
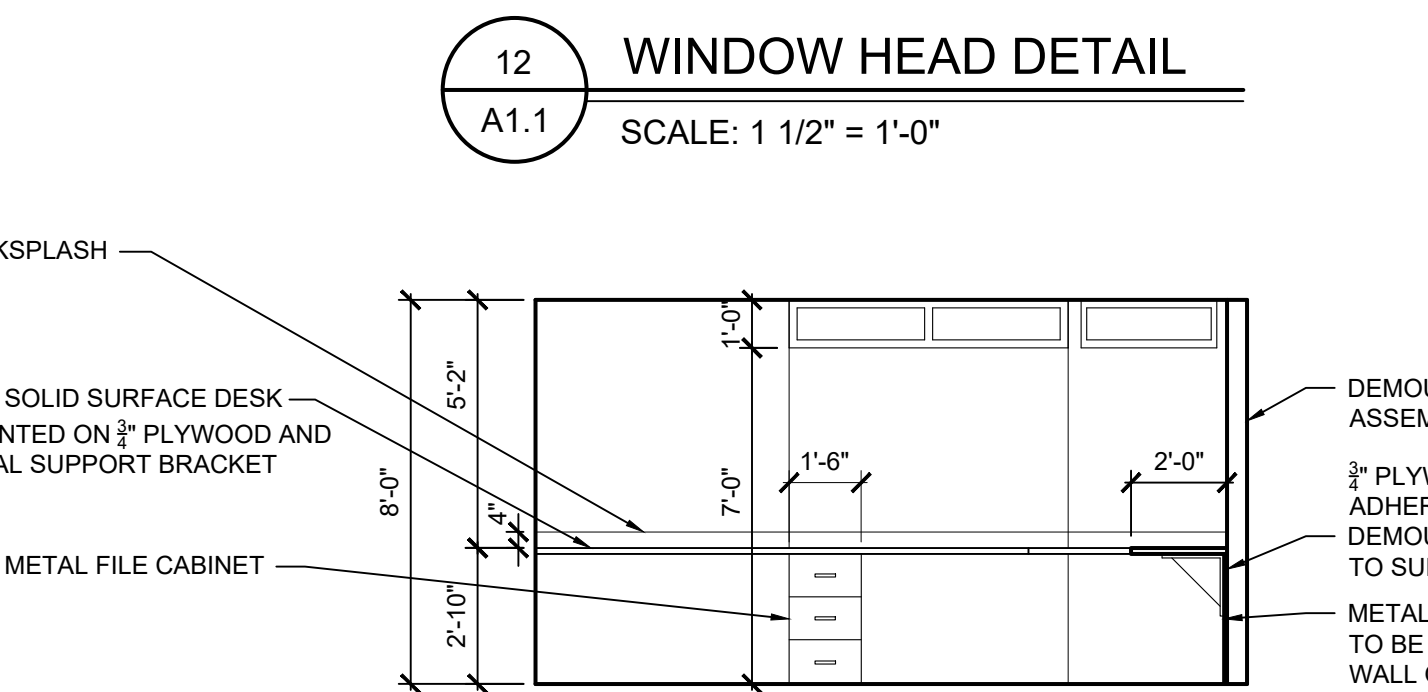
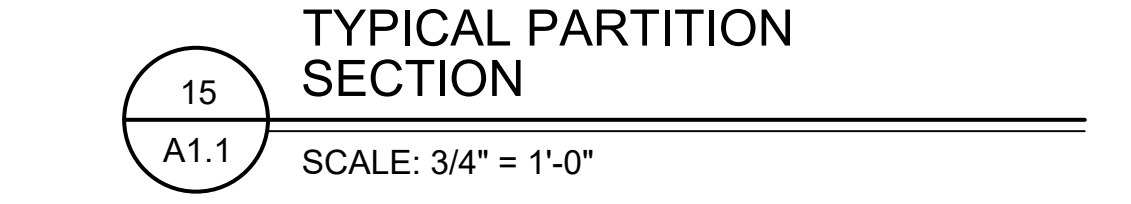
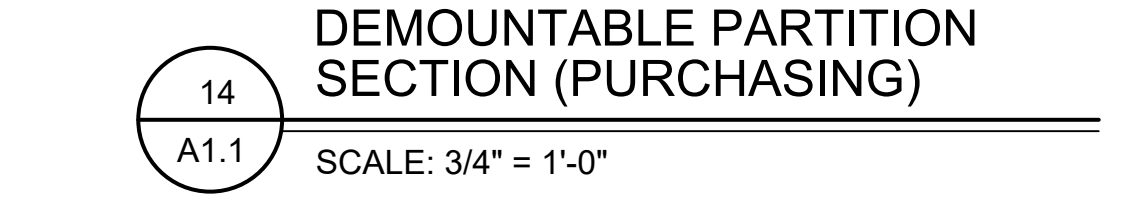
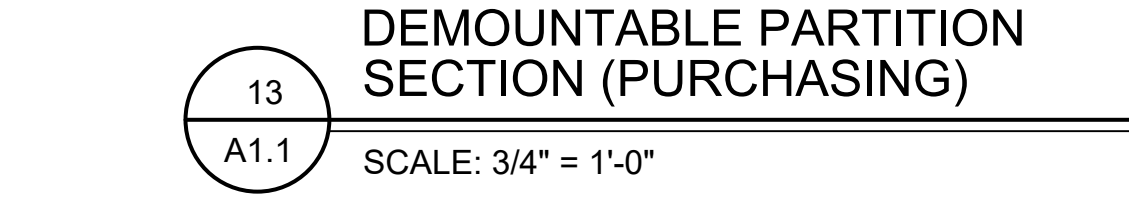
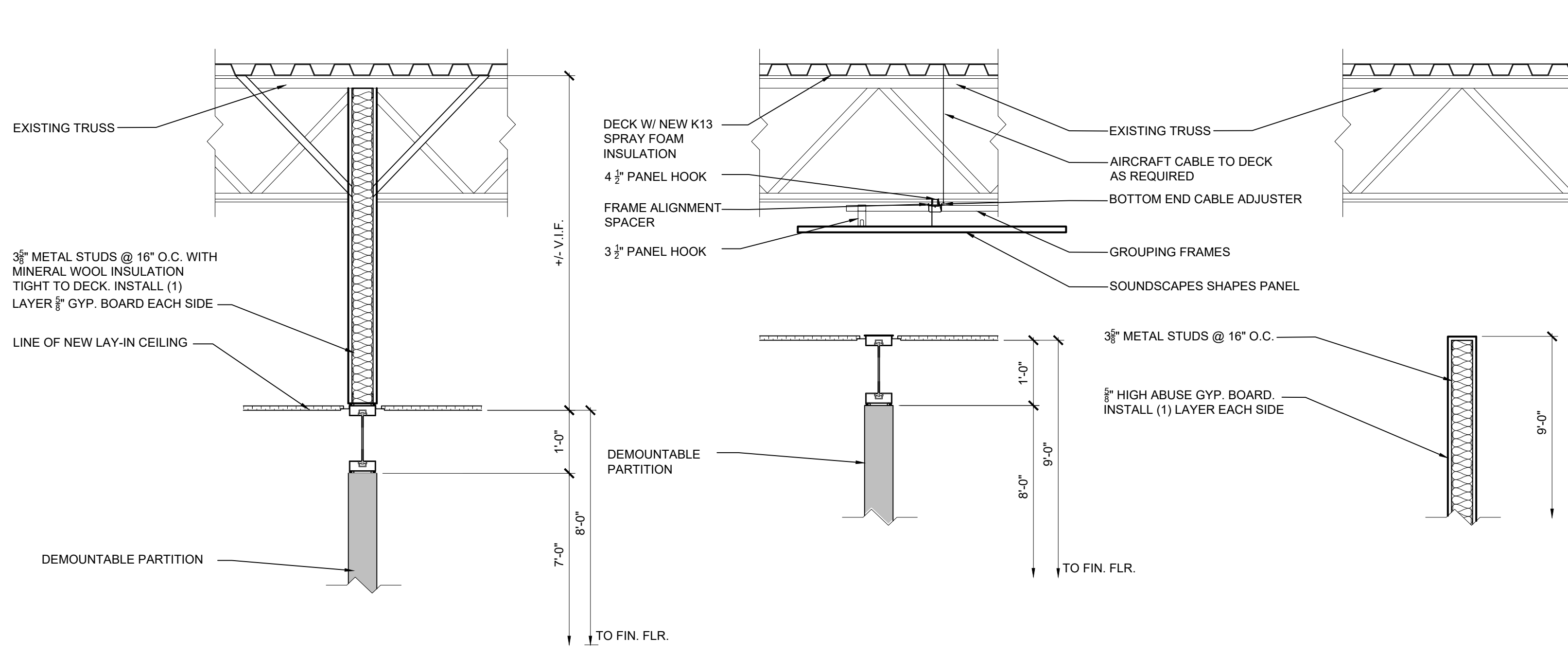
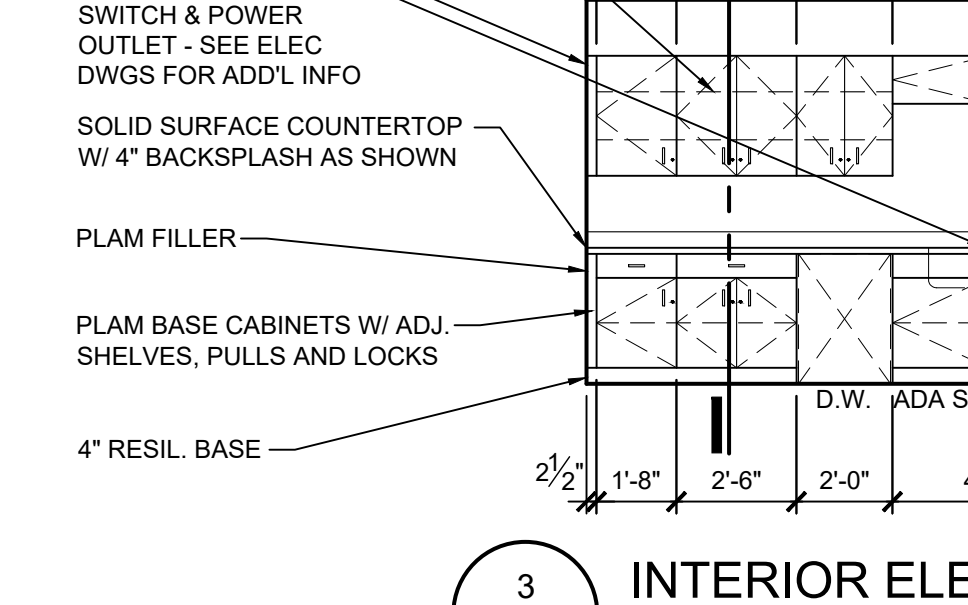
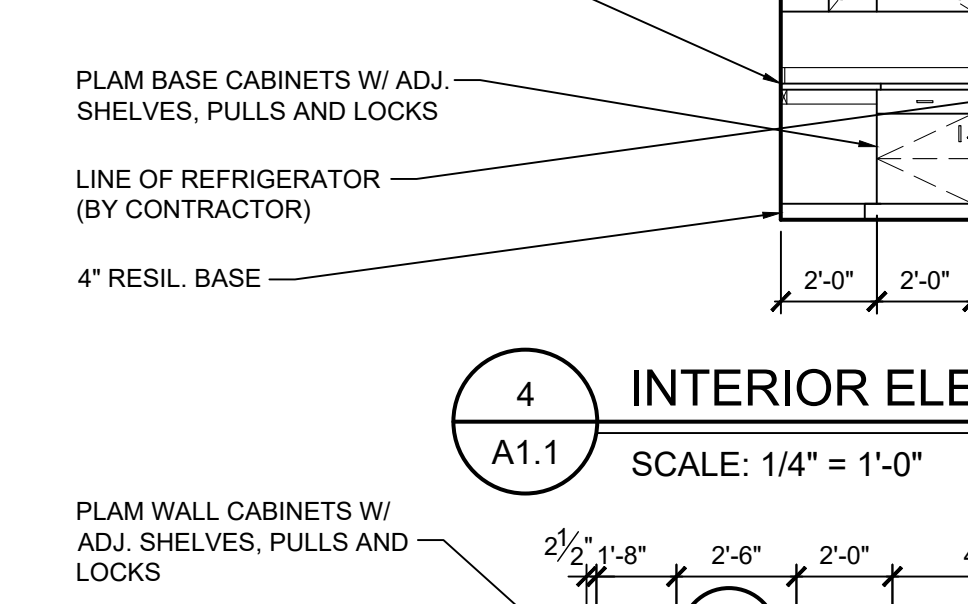
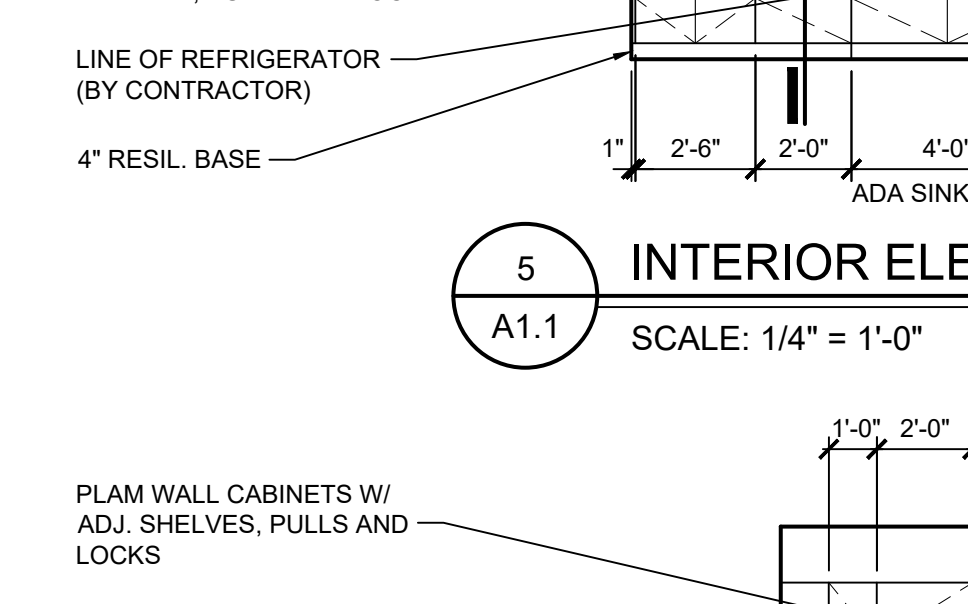
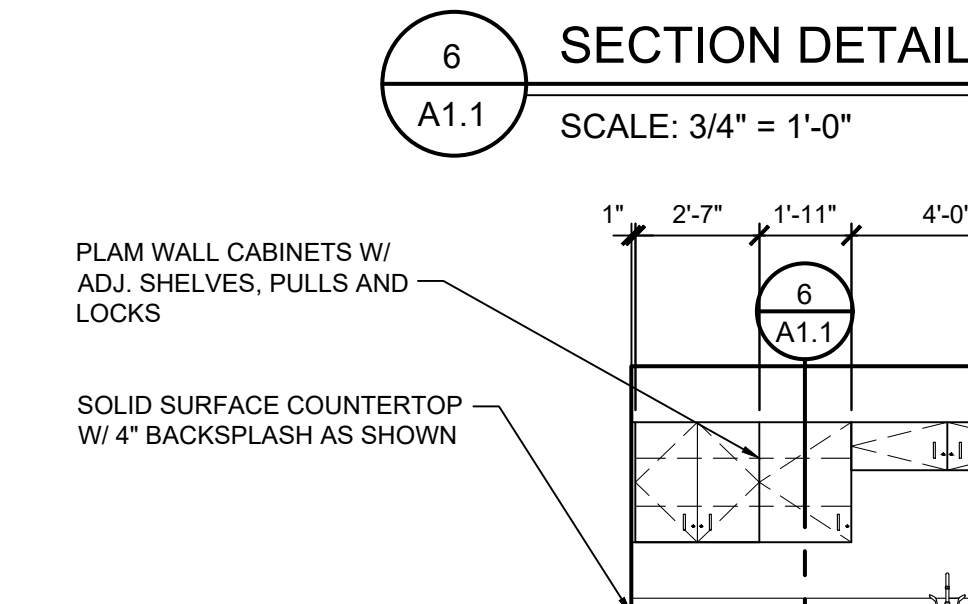
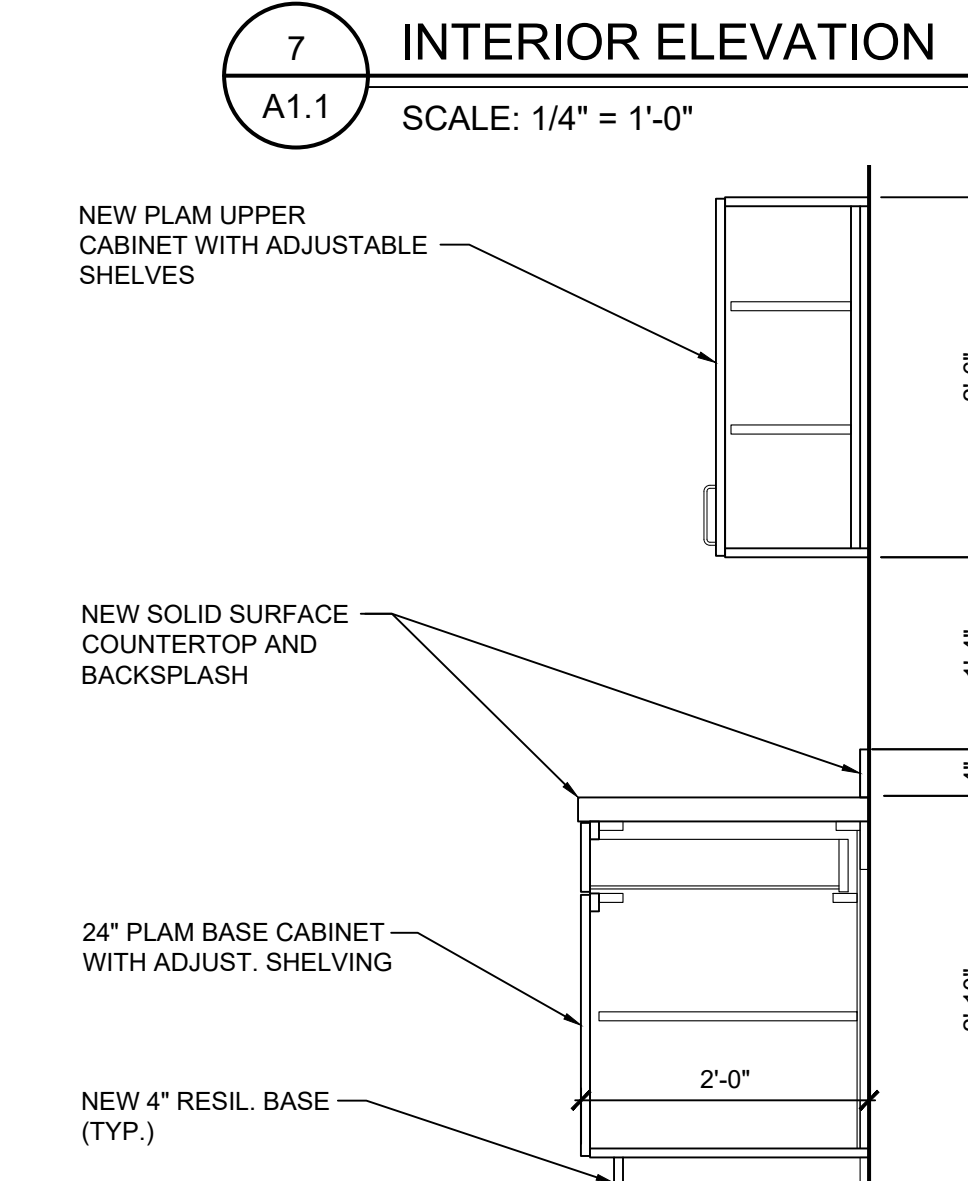
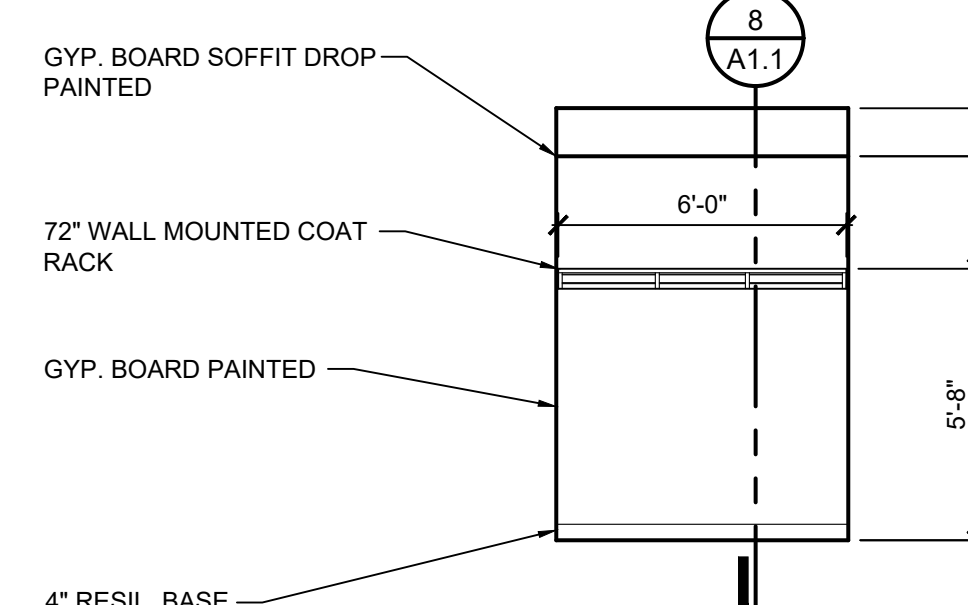
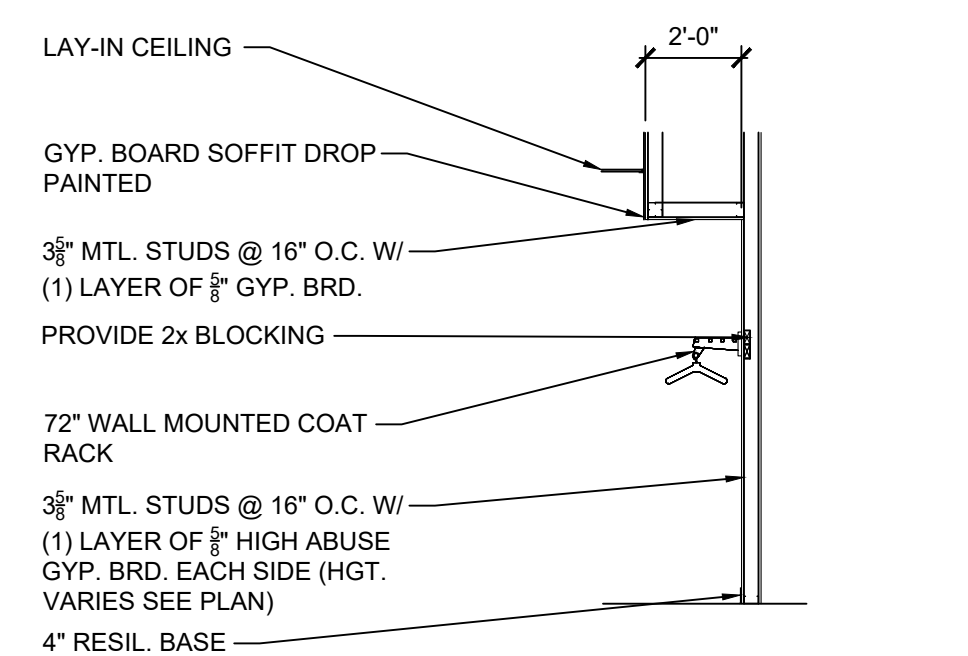
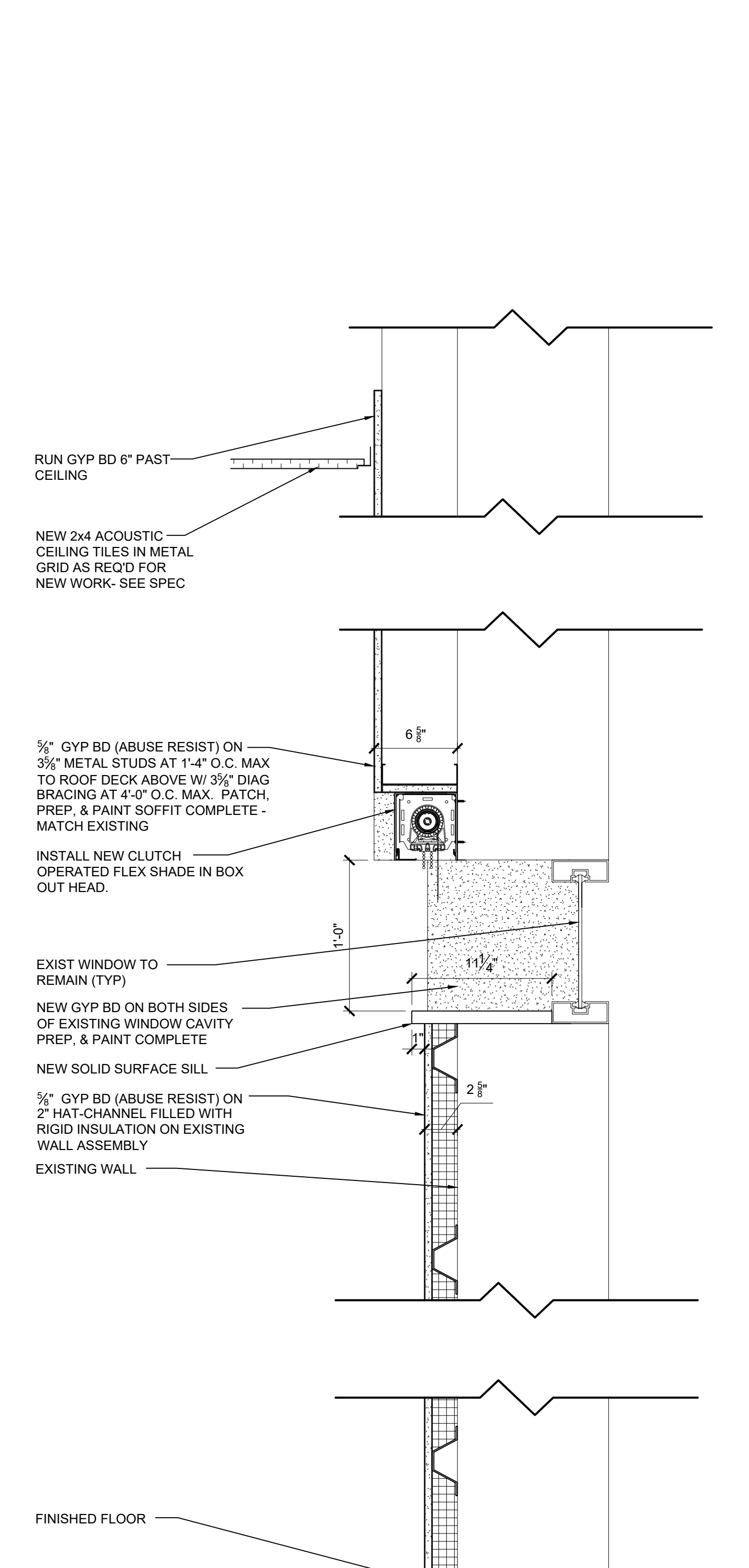
COMPOSITE FLOOR PLAN - SECOND FLOOR
SCALE: 1/16" = 1'-0"

NEW WORK KEYNOTES:

SEE SHEET G3.0 FOR ALL KEYNOTES.

GENERAL TOILET ROOM NOTES

- ALL WALLS TO BE PAINTED WITH EPOXY PAINT IN ALL TOILET ROOMS.
- PROVIDE NEW FLOOR TRANSITIONS BETWEEN ALL DISSIMILAR MATERIALS. REFER TO SPECIFICATIONS.
- PROVIDE ALL NEW TOILET ROOM ACCESSORIES AS SHOWN ON PLAN AND IN THE ACCESSORIES LEGEND.



**MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING**

ENLARGED FLOOR PLANS -

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: DC/WNL
CHECKED BY: RS/DCW

REVISIONS

ADDENDUM No. 1 11-7-2024

DATE: OCTOBER 31, 2024
SHEET NO.

A1.1

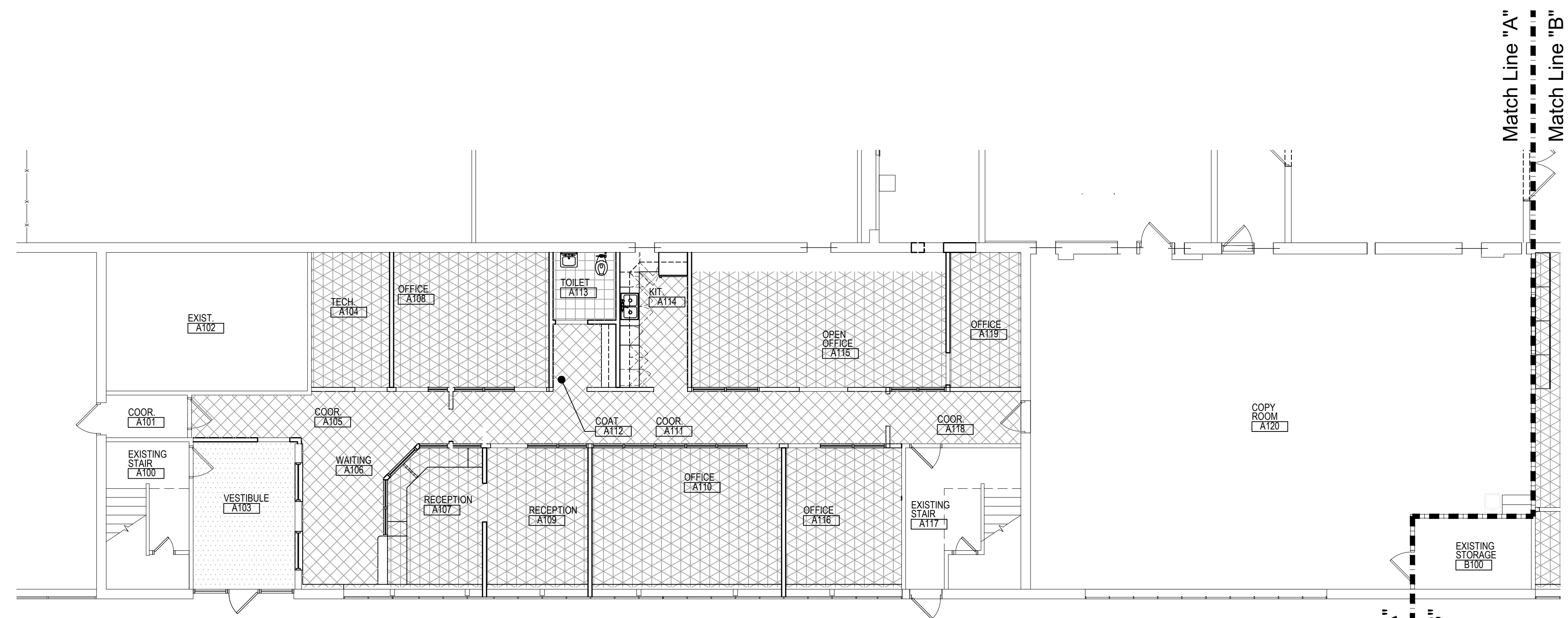
JOB NO. 242053

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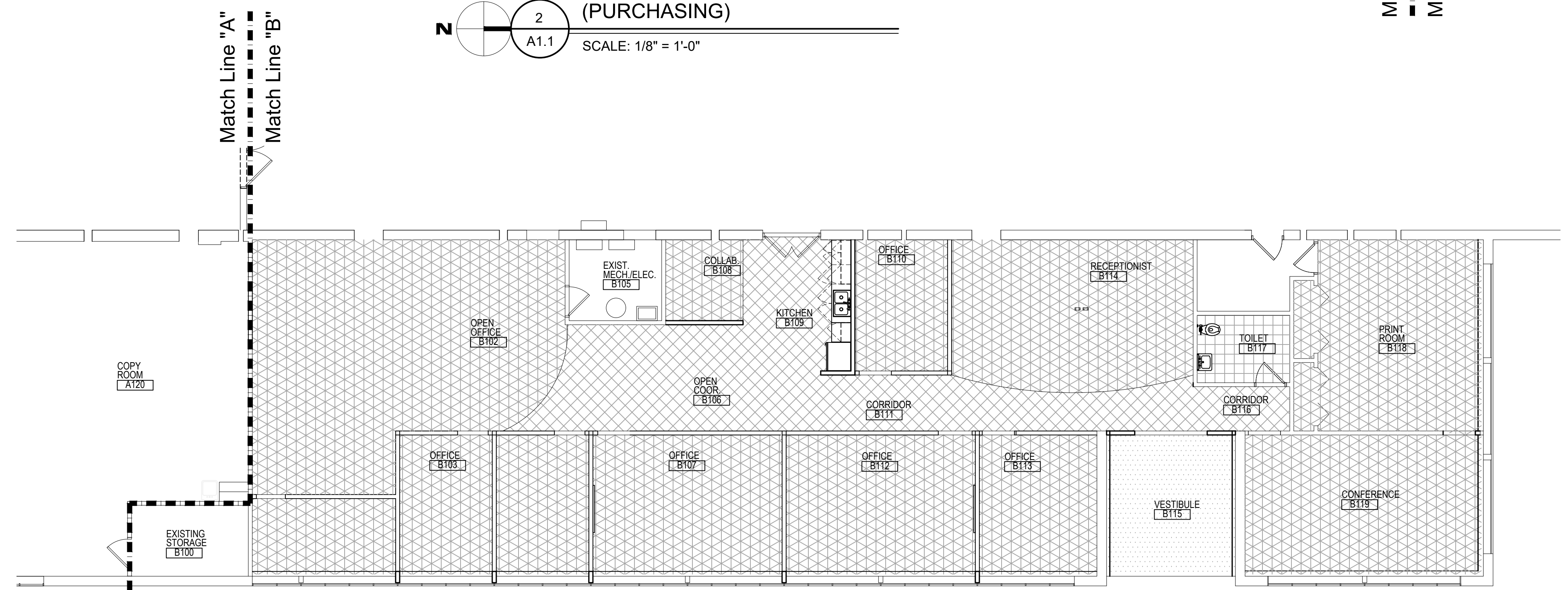
SEE SHEET G3.0 FOR ALL KEYNOTES.

FLOORING LEGEND

HATCH	DESCRIPTION
	NEW LVT
	NEW CARPET
	NEW CERAMIC TILE
	WALK-OFF CARPET



ENLARGED FLOOR FINISH PLAN
(PURCHASING)
SCALE: 1/8" = 1'-0"



ENLARGED FLOOR FINISH PLAN
(F & O)
SCALE: 1/8" = 1'-0"

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

FLOOR FINISH PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: DCW/ML
CHECKED BY: RS/DCW

REVISIONS
ADDENDUM No. 1 11-7-2024

DATE: OCTOBER 31, 2024
SHEET NO.

A1.2

JOB NO.
242053

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

FURNITURE PLAN LAYOUT

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: DC/WNL
CHECKED BY: RS/DCW

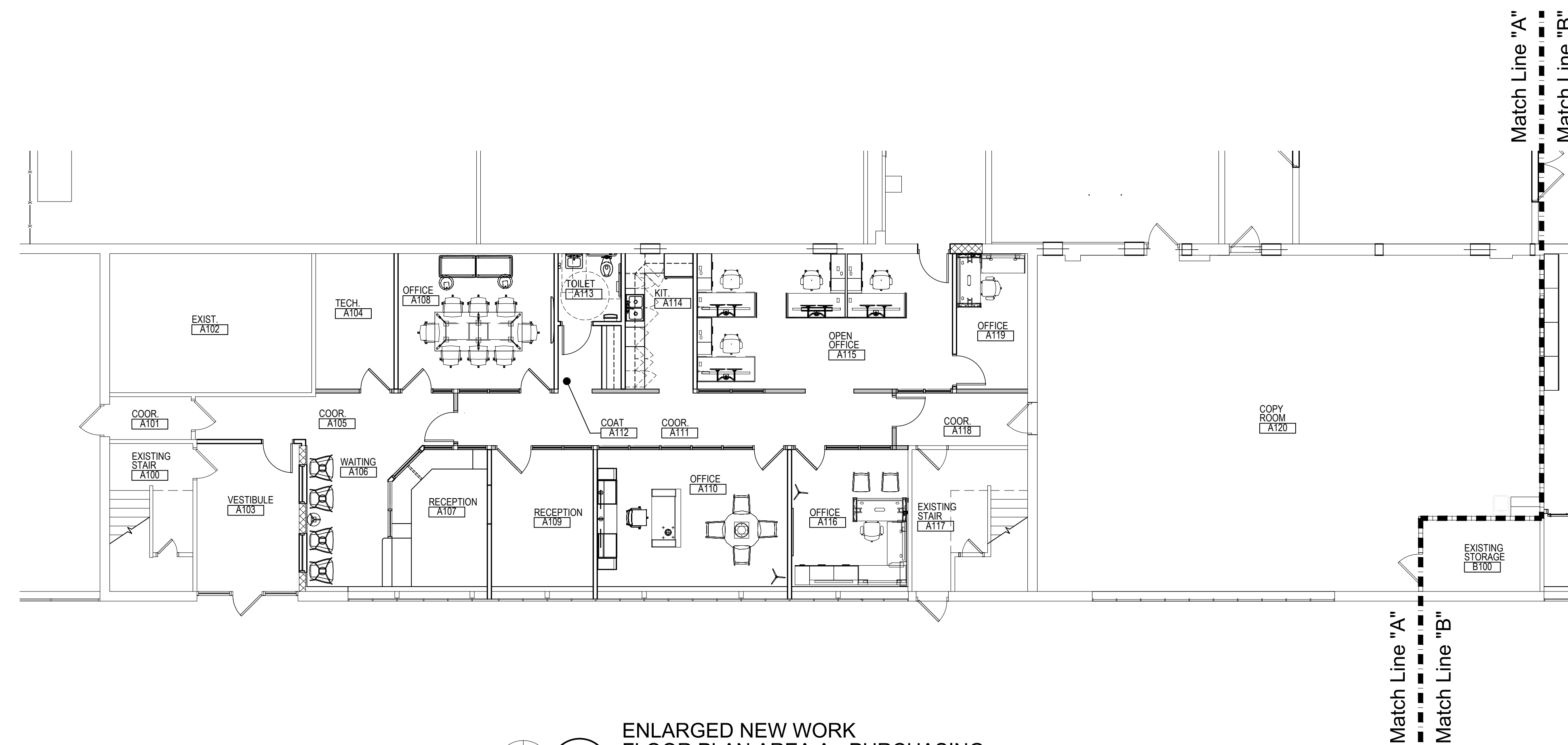
REVISIONS
ADDENDUM No. 1 11-7-2024

DATE: OCTOBER 31, 2024

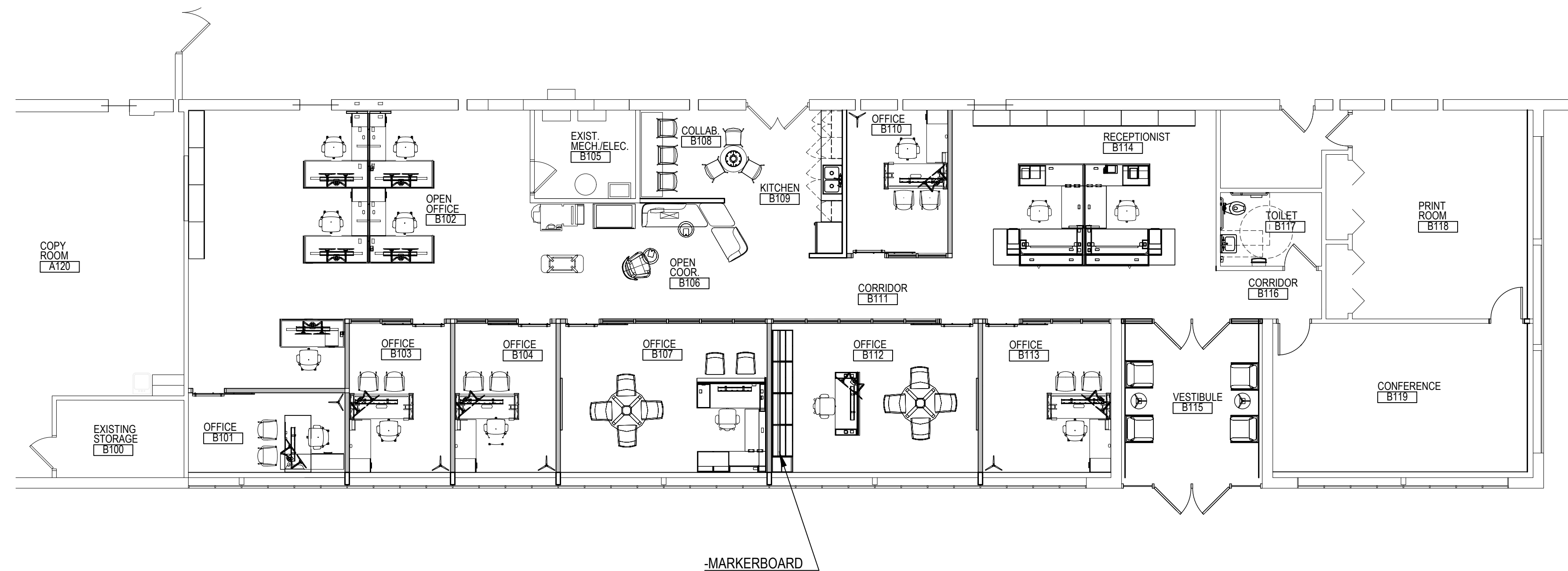
SHEET NO.

A1.3

JOB NO. 242053



ENLARGED NEW WORK FLOOR PLAN AREA A - PURCHASING
SCALE: 1/8" = 1'-0"



ENLARGED NEW WORK FLOOR PLAN - AREA B FACILITIES & OPERATIONS
SCALE: 1/8" = 1'-0"

NEW WORK KEYNOTES:

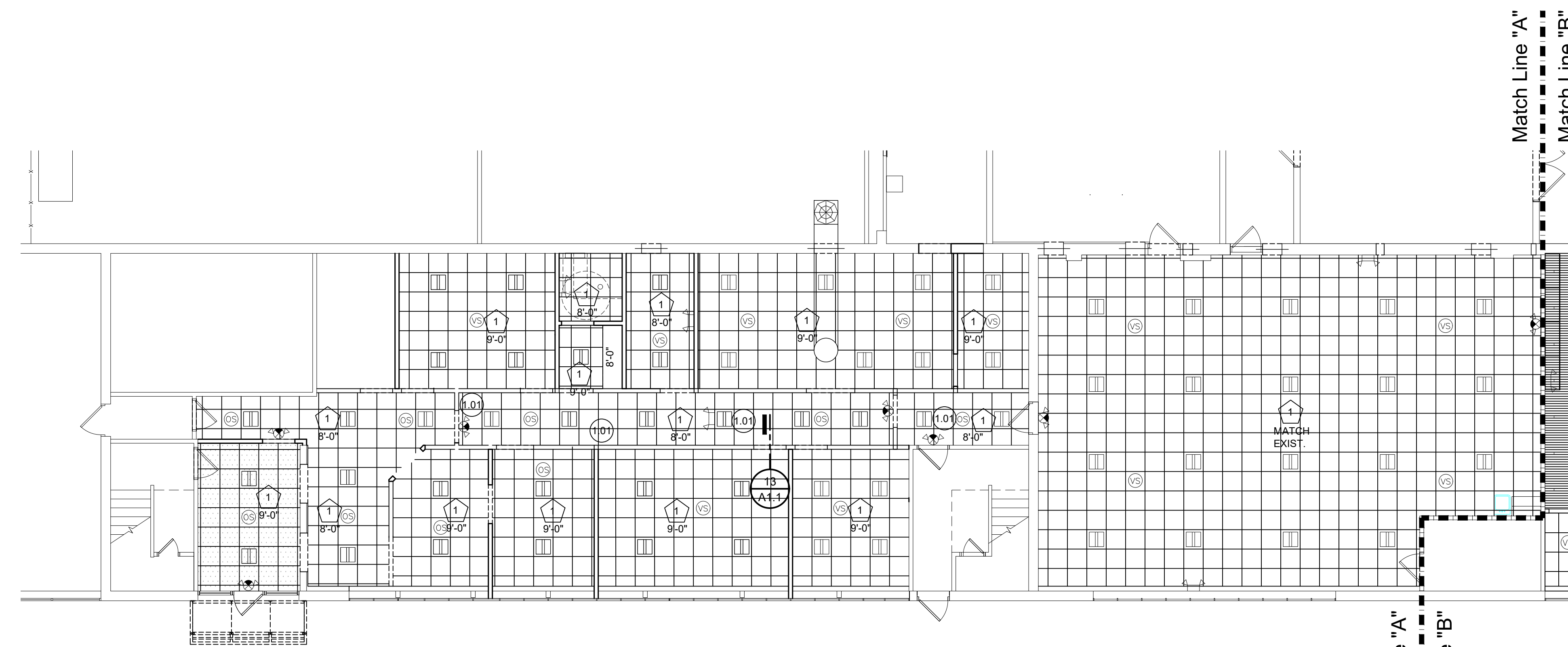
SEE SHEET G3.0 FOR ALL KEYNOTES.

REFLECTED CEILING PLAN KEYNOTES

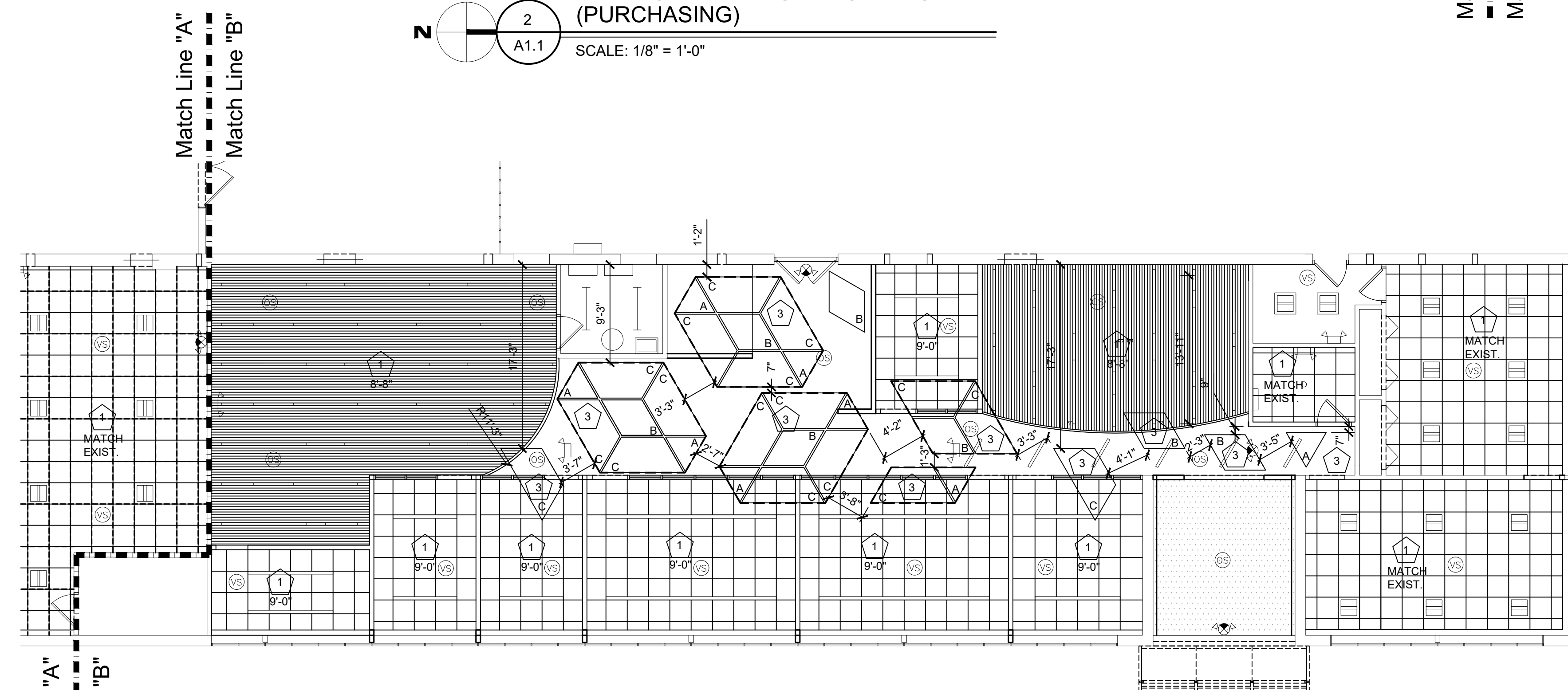
- 1 NEW 24" x 24" ACOUSTICAL CEILING GRID AND TILE. REFER TO SPECS.
- 2 NEW WOOD AND WOOD LOOK CEILING BY ARMSTRONG, SUSPENDED FROM EXISTING STRUCTURE.
- 3 SOUNDSCAPES-SHAPES DESIGN CEILING BY ARMSTRONG, FASTENED TO TO UNDER SIDE OF JOIST. IF HANG POINTS SECURED TO UNDER SIDE OF THE DECK ARE DEEMED NECESSARY. COORDINATE LOCATION AND INSTALLATION WITH APPLICATION OF K13 (USE "GROUPING FRAME SYSTEM FOR AS REQUIRED FOR LARGE CLOUDS)

REFLECTED CEILING LEGEND

- SOUNDSCAPES-SHAPES DESIGN CEILING - 60 DEGREE TRIANGLE
- SOUNDSCAPES-SHAPES DESIGN CEILING - 60 DEGREE PARALLELOGRAM
- SOUNDSCAPES-SHAPES DESIGN CEILING - 60 DEGREE TRAPEZOID
- SOUNDSCAPES-SHAPES DESIGN CEILING PANEL GROUPED WITH GROUPING FRAME ASSEMBLY



ENLARGED REFLECTED CEILING PLAN (PURCHASING)
SCALE: 1/8" = 1'-0"



ENLARGED REFLECTED CEILING PLAN (F & O)
SCALE: 1/8" = 1'-0"

- NOTES:
- 1. IN ALL OPEN AREAS, PAINT ALL EXPOSED DECK WITH K13 INSULATION, PAINT STRUCTURE, DUCTWORK, AND CONDUIT ETC. COMPLETE FOR A FINISHED PRODUCT.

**MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING**

REFLECTED CEILING PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: DCW/ML
CHECKED BY: RS/DCW

REVISIONS
ADDENDUM No. 1 11-7-2024

DATE: OCTOBER 31, 2024

SHEET NO.

A2.0

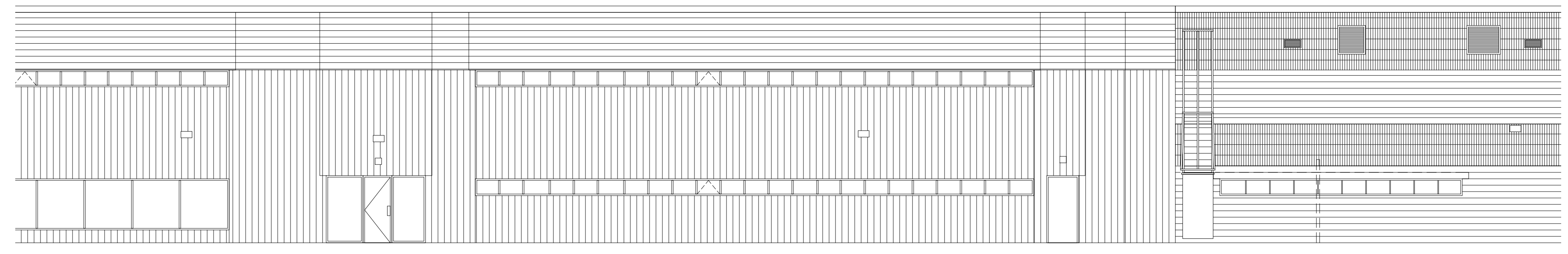
JOB NO. 242053



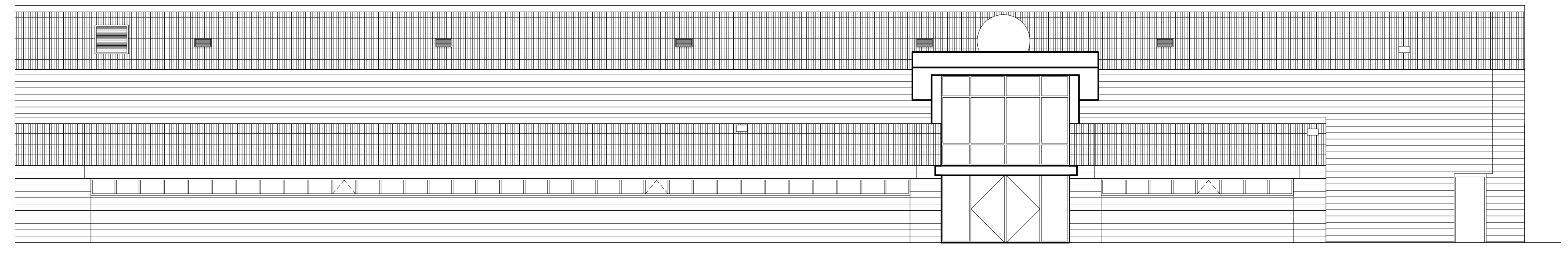
WAKELY ASSOCIATES, INC.
ARCHITECTS

30500 VAN DYKE AVENUE
SUITE 209
WARREN, MICHIGAN 48093
PH: 586.573.4100
FX: 586.573.0822
www.WakelyAIA.com

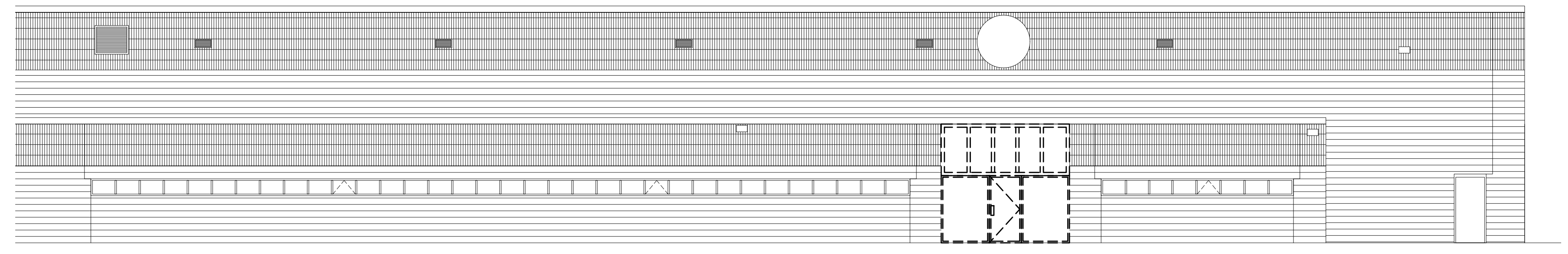
MACOMB COUNTY
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VIC WERTZ BUILDING



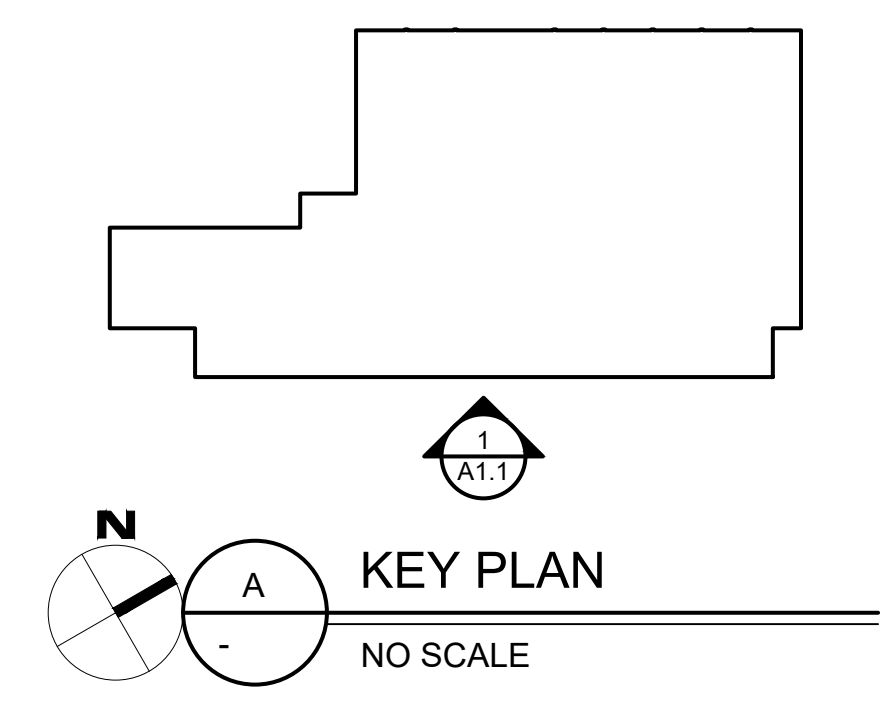
**PARTIAL EAST ELEVATION
(PURCHASING)**
3
A3.0 SCALE: 1/8" = 1'-0"



**PARTIAL EAST ELEVATION
(F&O)**
2
A3.0 SCALE: 1/8" = 1'-0"



**PARTIAL DEMOLITION
EAST ELEVATION (F&O)**
1
A3.0 SCALE: 1/8" = 1'-0"



EXTERIOR ELEVATIONS

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: DCW/ML
CHECKED BY: RS/DCW

REVISIONS
ADDENDUM No. 1 11-7-2024

DATE: OCTOBER 31, 2024
SHEET NO.

A3.0

JOB NO.
242053

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

SECTIONS

PRELIMINARY
DESIGN DEVELOPMENT
CONSTRUCTION
FINAL RECORD

DRAWN BY: DCW/ML
CHECKED BY: RS/DCW

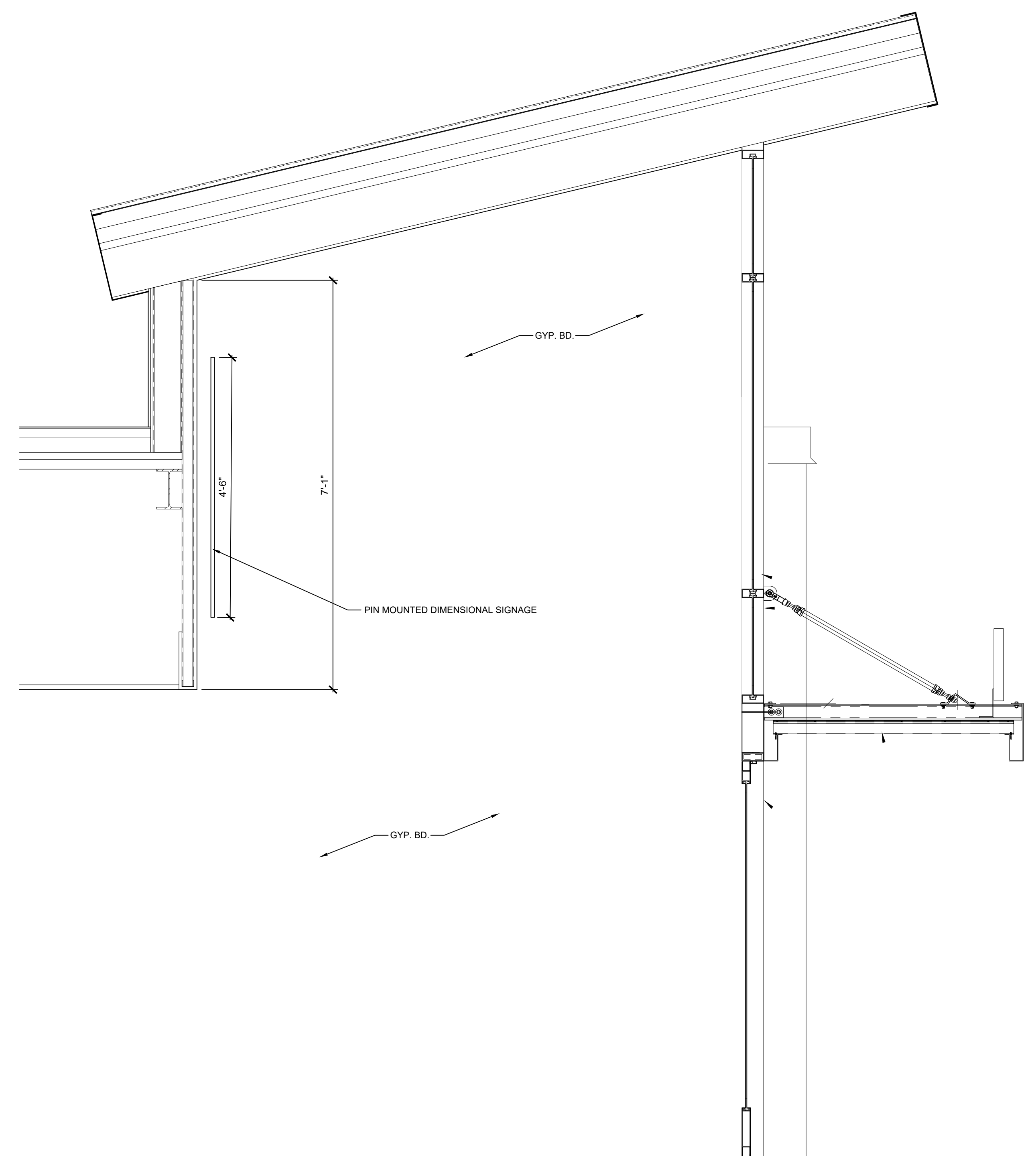
REVISIONS
ADDENDUM No. 1 11-7-2024

DATE: OCTOBER 31, 2024

SHEET NO.

A4.0

JOB NO.
242053



SECTION @
NEW ENTRY - OPTION 01
SCALE: 3/4" = 1'-0"

DOOR SCHEDULE														
DOOR OPENING				DOOR		FRAME			DETAILS			THRESHOLD	U.L. LABEL	REMARKS
NO.	WIDTH	HEIGHT		TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB			
AREA "A"														
A103	3'-0"	7'-0"	F	HM	PT	2	HM	PT	H1	J1	-	-	90	-
A104	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	1
A108A	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	1
A108B	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	1
A109	3'-6"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	1
A110	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	1
A111A	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	1
A111B	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	1
A113	3'-0"	7'-0"	F	WD	ST	2	HM	PT	H1	J1	-	-	MAR	-
A115	3'-0"	7'-0"	F	HM	PT	2	HM	PT	H2	J2	-	-	90	-
A116	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	1
A119	3'-0"	7'-0"	G	WD	ST	2	HM	PT	H1	J1	-	-	-	-
AREA "B"														
B101	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	2
B102	3'-0"	7'-0"	F	HM	PT	2	HM	PT	H2	J2	-	-	90	-
B103	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	2
B104	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	2
B107	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	2
B110	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	2
B112	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	2
B113	3'-0"	7'-0"	G	-	-	-	-	-	-	-	-	-	-	2
B115A	(2)3'-0"	7'-0"	G	AL	PFN	1	AL	PFN	H1	J1	-	-	-	-
B115B	(2)3'-0"	7'-0"	G	AL	PFN	1	AL	PFN	H1	J1	-	-	-	-
B117	3'-0"	7'-0"	F	WD	ST	2	HM	PT	H1	J1	-	-	MAR	-
B118	3'-0"	7'-0"	N	WD	ST	2	HM	PFN	H1	J1	-	-	-	-
B119	3'-0"	7'-0"	N	WD	ST	2	HM	PFN	H1	J1	-	-	-	-

REMARKS - DOOR SCHEDULE	
1	SWING DOOR, FRAME, AND HARDWARE PROVIDED BY DEMOUNTABLE PARTITION COMPANY
2	SLIDING DOOR, FRAME, AND HARDWARE PROVIDED BY DEMOUNTABLE PARTITION COMPANY
3	-

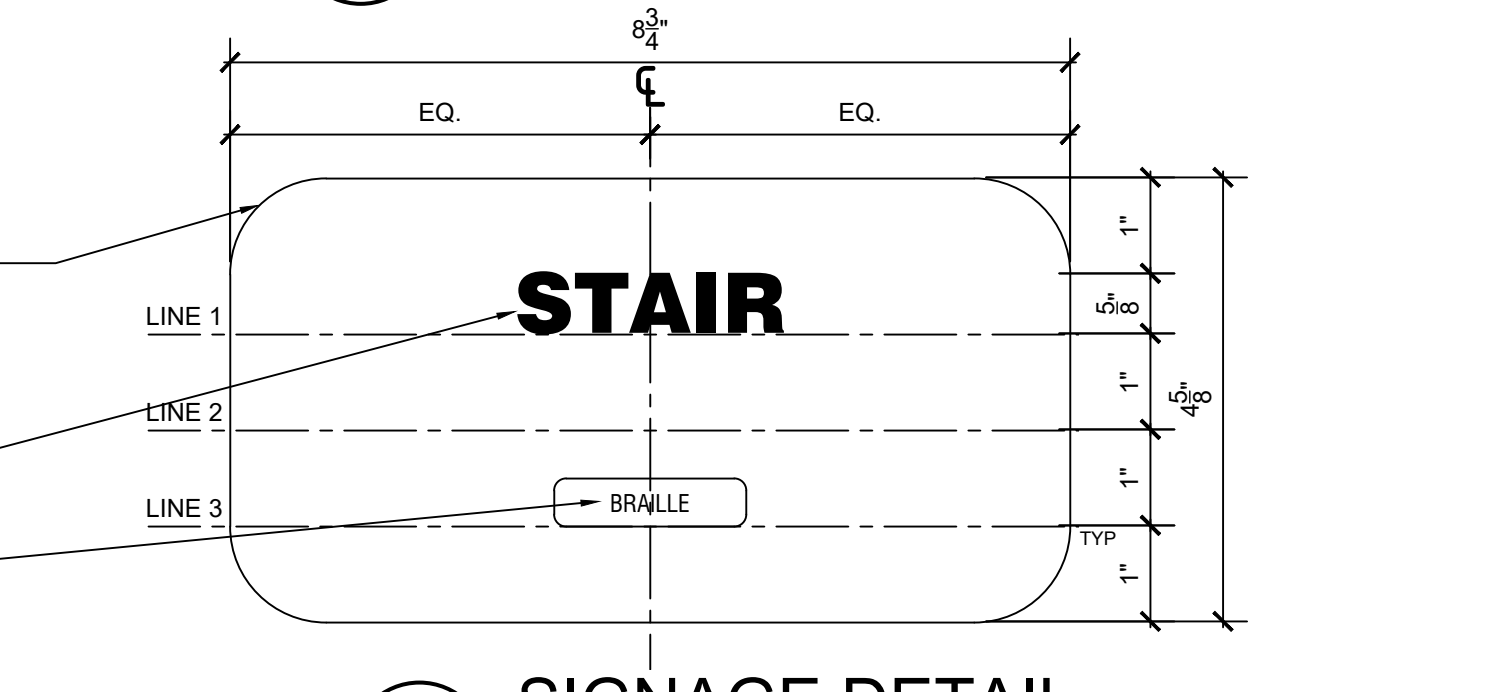
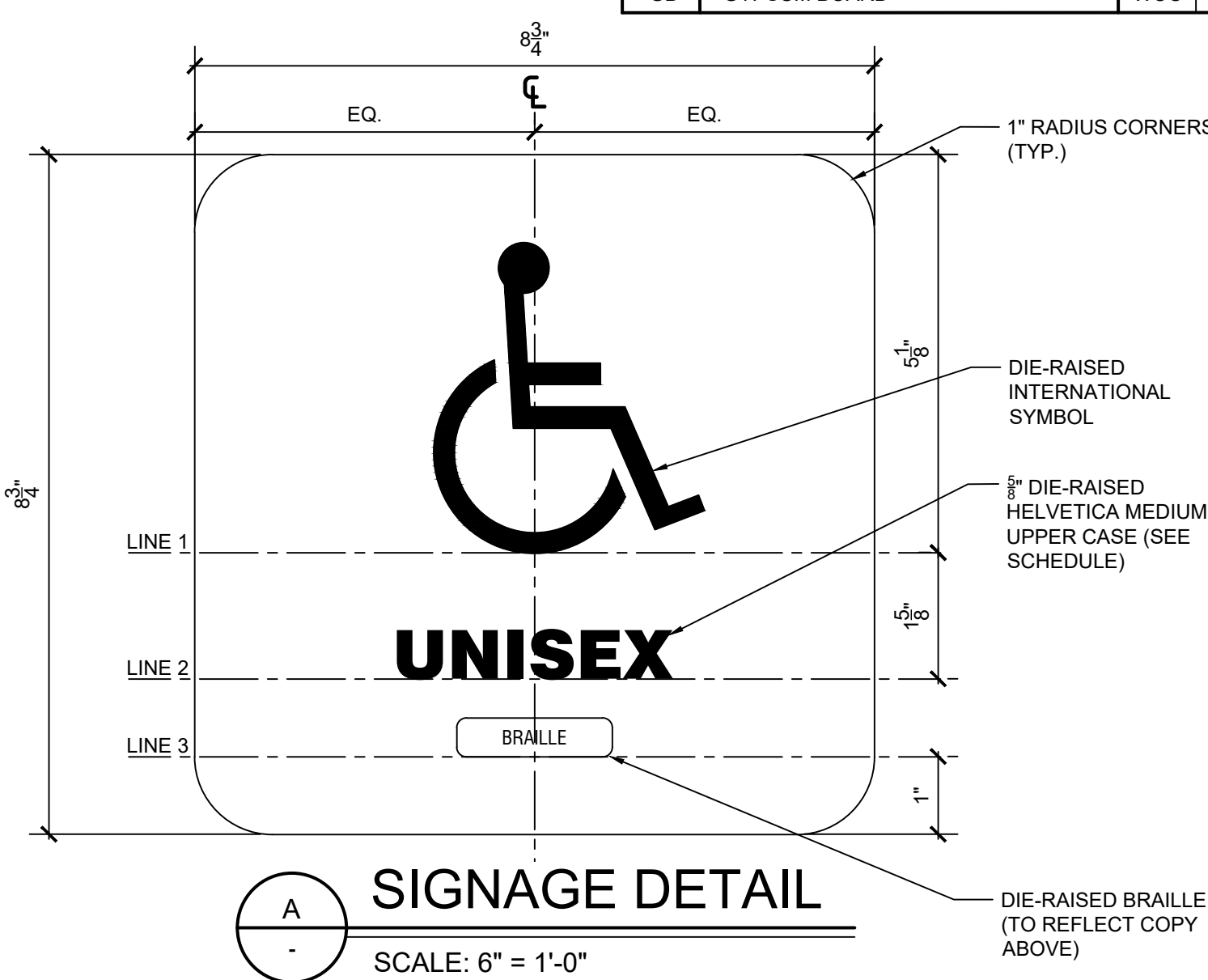
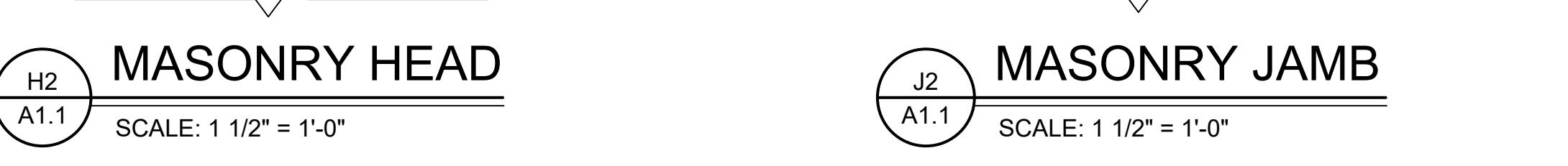
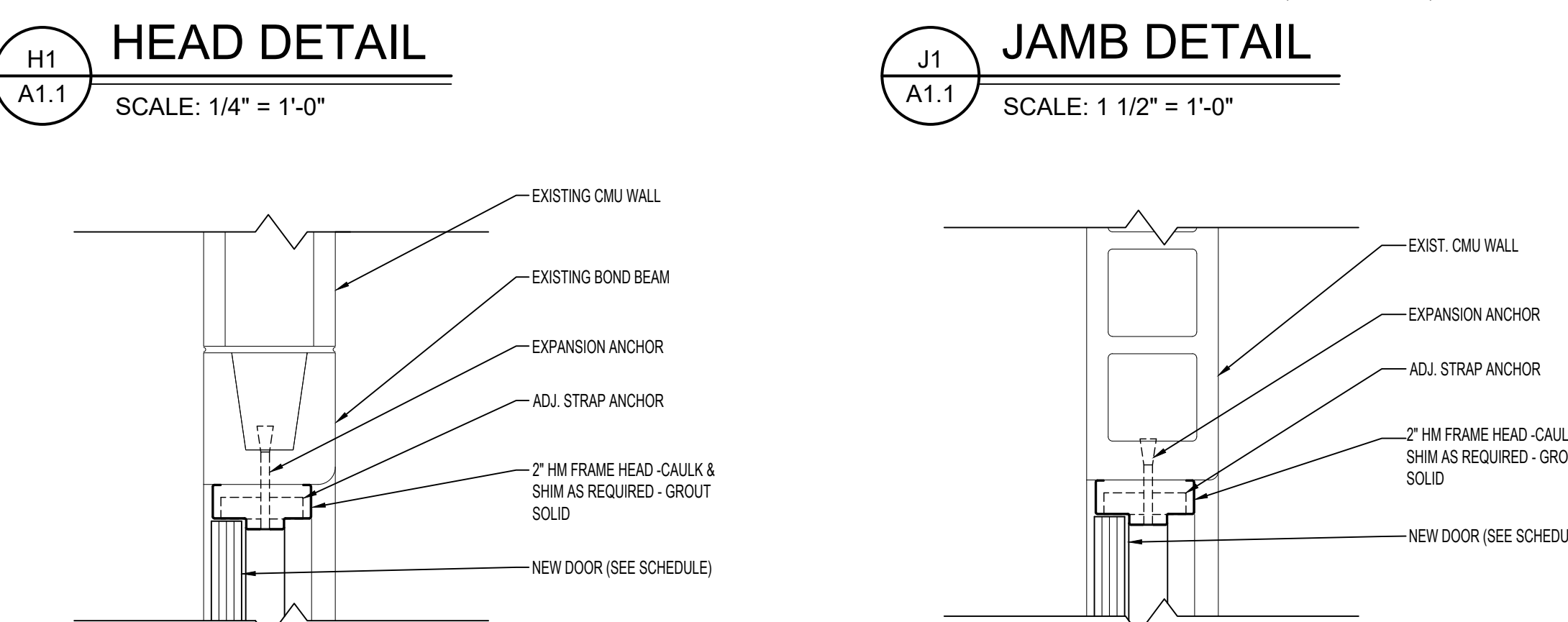
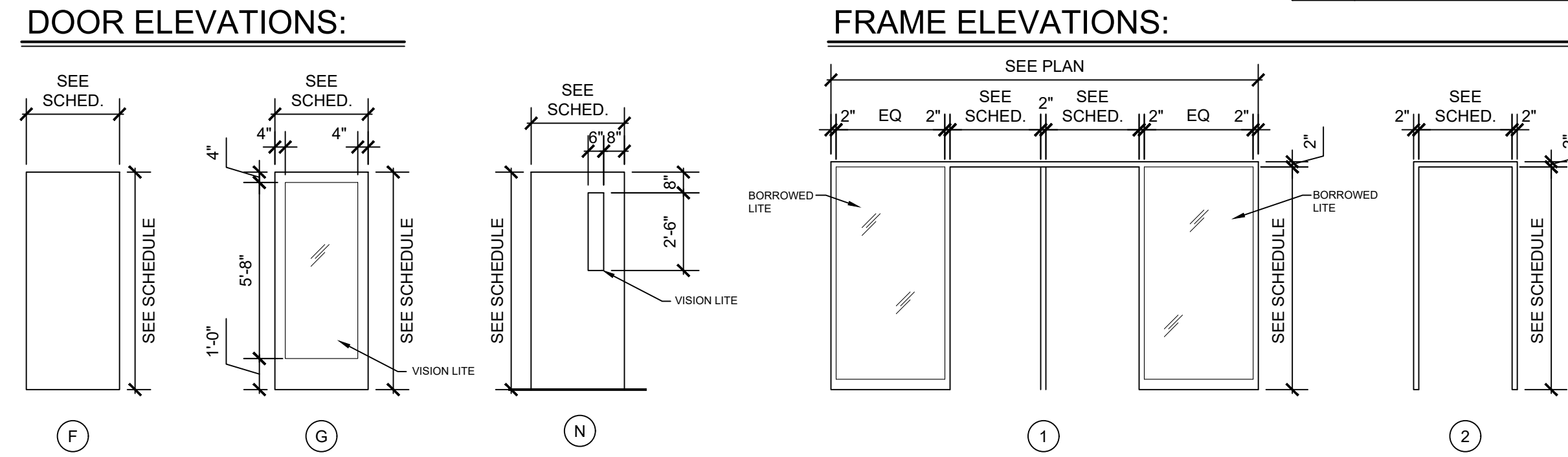
ABBREVIATIONS	
AL	ALUMINUM
HM	HOLLOW METAL
PFN	PRE-FINISHED
PT	PAINT
MAR	MARBLE
ST	STAIN
WD	WOOD

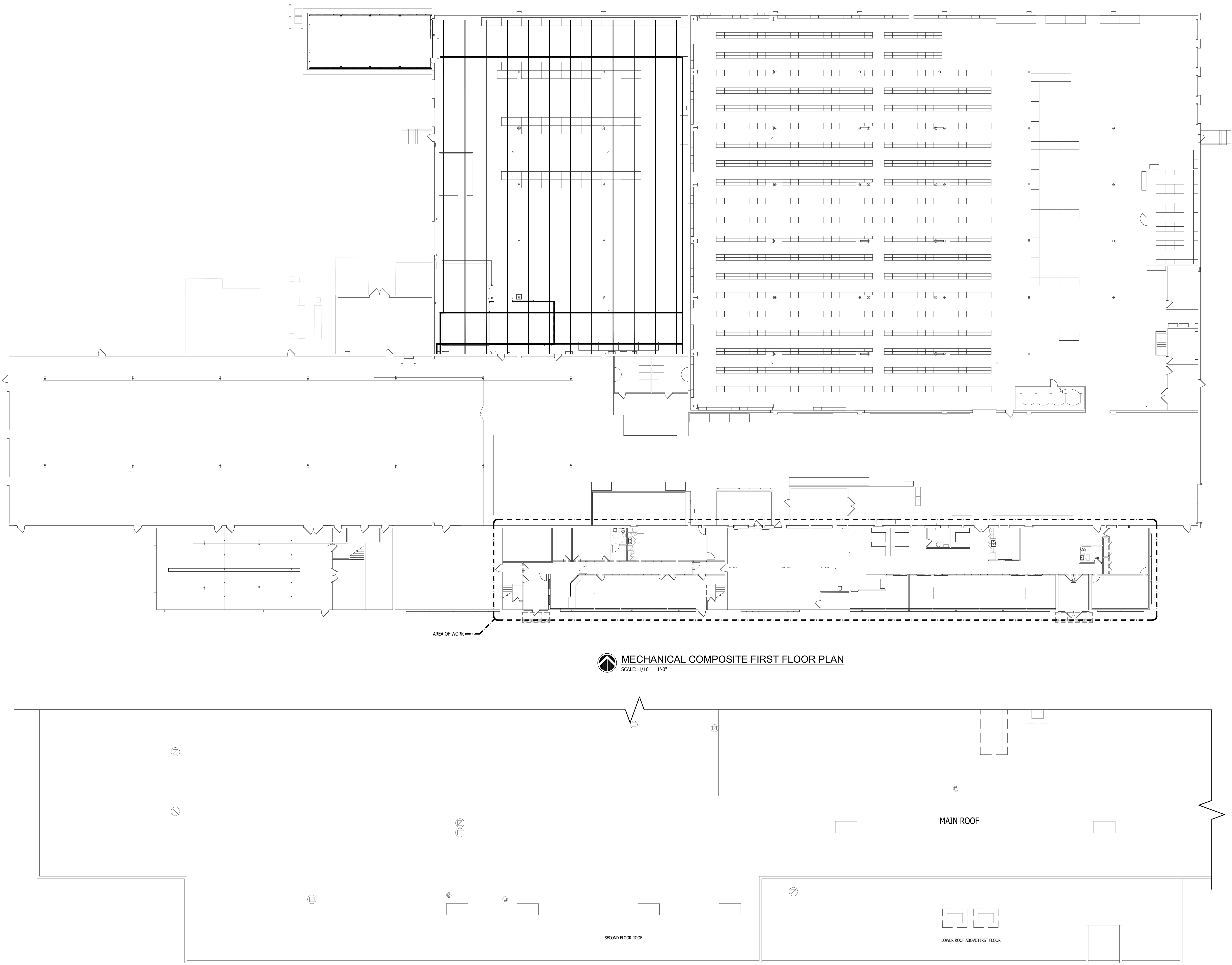
ROOM FINISH SCHEDULE											
NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		REMARKS	
				NORTH	SOUTH	WEST	EAST	MAT'L	HGT.		
AREA "A" - PURCHASING											
A100	EXISTING STAIR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	
A101	CORRIDOR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	
A102	EXIST. STORAGE		ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	
A103	VESTIBULE		WOC	CT	PT	PT	PT	ACT	9'-0"	1,3,4	
A104	TECH.		LVT	RB	PT	PT	PT	ETR	ETR	1,3,4,5	
A105	CORRIDOR		LVT	RB	PT	PT	PT	ACT	8'-0"	1,3,4,5	
A106	WAITING		LVT	RB	PT	PT	PT	ACT	8'-0"	1,4,5	
A107	RECEPTION		CPT	RB	PT	DP	GL	PT	ACT	9'-0"	1,2,4,5
A108	OFFICE		CPT	RB	PT	PT	PT	ACT	9'-0"	1,2,3,4,5	
A109	RECEPTION		CPT	RB	PT	PT	DP	PT	ACT	9'-0"	1,2,4,5
A110	OFFICE		CPT	RB	PT	PT	DP	PT	ACT	9'-0"	1,2,4,5
A111	CORRIDOR		LVT	RB	DP	DP	DP	ACT	8'-0"	1,2,4,5	
A112	COAT CLOSET		LVT	RB	PT	PT	PT	ACT	8'-0"	1,2,4,5	
A113	TOILET		CT	CT	CT	CT	CT	ACT	8'-0"	1,3,4,5	
A114	KITCHEN		LVT	RB	PT	PT	PT	DP	ACT	8'-0"	1,2,3,4,5
A115	OPEN OFFICE		CPT	RB	PT	PT	PT	DP	ACT	9'-0"	1,2,3,4,5
A116	OFFICE		CPT	RB	PT	PT	DP	PT	ACT	9'-0"	1,2,3,4,5
A117	EXISTING STAIR		ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	
A118	CORRIDOR		LVT	RB	PT	DP	DP	PT,DP	ACT	8'-0"	1,2,3,4,5
A119	OFFICE		CPT	RB	PT	PT	DP	ACT	9'-0"	1,2,3,4,5	
A120	COPY ROOM		CPT	RB	ETR	ETR	ETR	ACT	ETR	-	
AREA "B" - FACILITIES AND OPERATION											
B100	EXISTING STORAGE		ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	
B101	OFFICE		CPT	RB	DP	PT	DP	PT	ACT	9'-0"	1,2,3,4,5
B102	OPEN OFFICE		CPT	RB	PT	PT	DP	LW	8'-8"	2,3,4,5	
B103	OFFICE		CPT	RB	DP	DP	DP	PT	ACT	9'-0"	2,3,4,5
B104	OFFICE		CPT	RB	DP	DP	DP	PT	ACT	9'-0"	2,3,4,5
B105	EXIST. MECH./ELEC.		ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	
B106	OPEN CORRIDOR		LVT	RB	PT	PT	PT	ES	ETR	1,3,4,5,6	
B107	OFFICE		CPT	RB	DP	DP	DP	PT	ACT	9'-0"	2,3,4,5
B108	COLLABORATION		CPT	RB	PT	PT	PT	ES/PT	ETR	1,3,4,5	
B109	KITCHEN		LVT	RB	PT	PT	PT	ES/PT	ETR	1,3,4,5	
B110	OFFICE		CPT	RB	DP	PT	DP	ACT	9'-0"	1,2,3,4,5	
B111	CORRIDOR		LVT	RB	PT	PT	DP	ES/PT	ETR	1,3,4,5,6	
B112	OFFICE		CPT	RB	DP	DP	DP	PT	ACT	9'-0"	1,2,3,4,5
B113	OFFICE		CPT	RB	PT	DP	DP	PT	ACT	9'-0"	1,2,3,4,5
B114	RECEPTIONIST		CPT	RB	PT	DP	PT	LW	8'-8"	2,3,4,5	
B115	VESTIBULE		CT	CT	ETR	ETR	PT/GL	GL	ES/PT	ETR	1,3,4,6
B116	CORRIDOR		LVT	RB	PT	PT	PT	PT/GL	ES/PT	1,3,4,6	
B117	TOILET		CT	CT	CT/PT	CT/PT	CT/PT	ACT	ETR	3,4	
B118	PRINT ROOM		ETR	ETR	ETR	ETR	ETR	ACT	ETR	-	
B119	CONFERENCE		ETR	ETR	ETR	ETR	ETR	ACT	ETR	-	

REMARKS - ROOM SCHEDULE	
1	ALL GYPSUM BOARD TO BE 5/8" HIGH ABUSE BOARD UNLESS OTHERWISE NOTED.
2	DEMOUNTABLE PARTITION COMPANY TO PROVIDE CEILING CLIPS TO ANCHOR NEW CEILINGS TO NEW DEMOUNTABLE PARTITIONS.
3	PATCH AND REPAINT ALL EXISTING WALLS REQUIRED.
4	PROVIDE AND INSTALL ALL REQUIRED FLOOR TRANSITIONS, PIECES, AND THRESHOLDS.
5	ALL DEMOUNTABLE PARTITIONS DO NOT HAVE RUBBER BASE INSTALLED. RUBBER BASE IS ONLY ON CONSTRUCTION WALLS.
6	IN ALL OPEN AREAS, PAINT ALL EXPOSED DECK, STRUCTURE, DUCTWORK, CONDUIT, ETC. COMPLETE FOR A FINISHED PRODUCT.

SIGNAGE SCHEDULE				
QTY	PLAN NO.	TYPE	MOUNTING	TEXT
AREA "A" - PURCHASING				
1	A100	A	1	LINE 1: STAIR
1	A113	A	1	LINE 1: UNISEX
1	A117	A	1	LINE 1: STAIR
AREA "B" - FACILITIES AND OPERATION				
1	B117	A	1	LINE 1: UNISEX

ABBREVIATIONS			
ACT	ACOUSTICAL CEILING TILE AND GRID	PT	PAINT
CMU	CONCRETE MASONRY UNITS	GL	GLASS
CT	CERAMIC TILE	DP	DEMOUNTABLE PARTITION
ETR	EXISTING TO REMAIN	LW	LINEAL WOOD
EP	EPOXY PAINT	ES	EXPOSED STRUCTURE
GB	GYPSUM BOARD	WOC	WALK-OFF CARPET





MECHANICAL COMPOSITE FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"

MECHANICAL SECOND FLOOR / ROOF PLAN
SCALE: 1/16" = 1'-0"

GENERAL DEMOLITION NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

PLUMBING GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
J	INSTALL ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
K	PROVIDE "IN-LINE" WATERLESS PRIMER TRAP SEAL PROTECTION ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
L	AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT OFF VALVE, TEE, AND 6" LONG DIRT LEG WITH CAP.
M	THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC CONDUIT WIRINGS, ETC. SHALL BE USED. ALL MATERIALS TO BE USED ARE TO BE PLENUM RATED.

HVAC GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND DISCUSS ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD, IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
C	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO INDEMNIFY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEYS ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNECTIONS SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
H	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DOCUMENTS AS REQUIRED BY THE OWNER.
J	SUPPORT ALL ANCHORS SECURED TO THE BOTTOM OF FLOOR SLABS SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTING STEEL SHALL BE PROVIDED BY THE CONTRACTOR.
K	DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
M	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSERS SHALL BE THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE NO DUCT SIZE IS INDICATED.

W/A
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ARCHITECTS

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UNIFIED BUILDING SYSTEMS ENGINEERING
69 S. GRATIOT AVE.
MT. CLEMENS, MI 48043
UBS PROJECT 007.24.09

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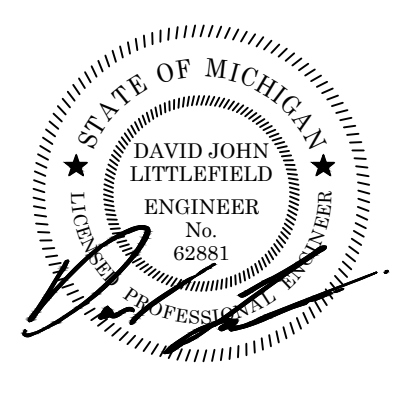
MECHANICAL COMPOSITE FIRST AND SECOND FLOOR PLANS

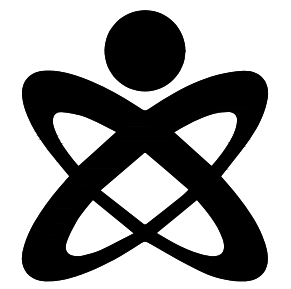
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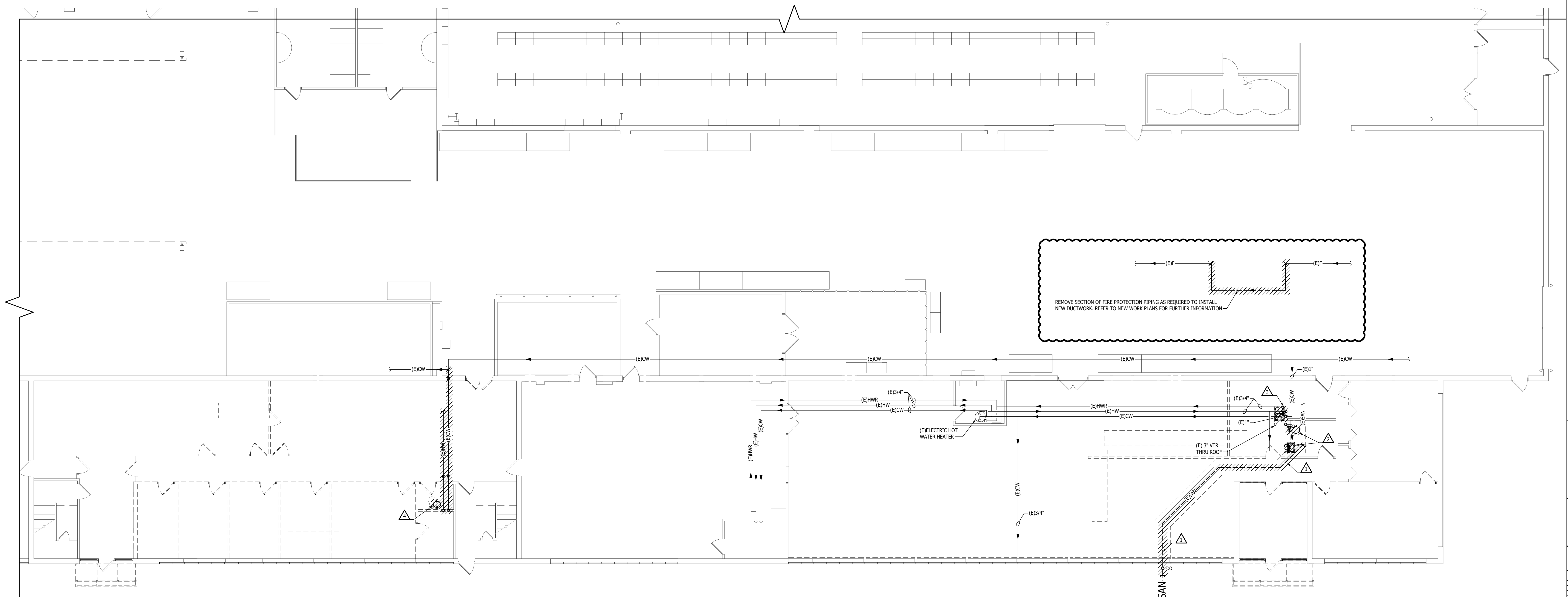


GENERAL DEMOLITION NOTES

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DEMOLITION KEYED NOTES

1	REMOVE SANITARY PIPING FROM OUTSIDE CLEANOUT TO EXTENTS SHOWN. FIELD VERIFY EXACT LOCATION AND SIZE OF PIPE PRIOR TO REPLACEMENT. CONTACT ENGINEER IF EXISTING CONDITIONS VARY GREATLY FROM WHAT IS INDICATED ON DOCUMENTS.
2	REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED COMPONENTS COMPLETE. REMOVE COLD WATER, HOT WATER, SANITARY, AND VENT PIPING AS REQUIRED FOR NEW INSTALLATION.
3	REMOVE EXISTING KITCHEN SINK AND ALL ASSOCIATED COMPONENTS COMPLETE. SANITARY AND VENT PIPING IN WALL SERVING SINK SHALL REMAIN. RE-CONFIGURE SANITARY AS REQUIRED TO ALLOW FOR PUMPED SANITARY DISCHARGING INTO OUTLET TO REMAIN.
4	REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED COMPONENTS COMPLETE. REMOVE SANITARY TO GROUND AND CAP. REMOVE COLD WATER PIPING AND HOT WATER TO SOURCE AND CAP.



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

MACOMB COUNTY
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PLUMBING DEMOLITION
FIRST FLOOR PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

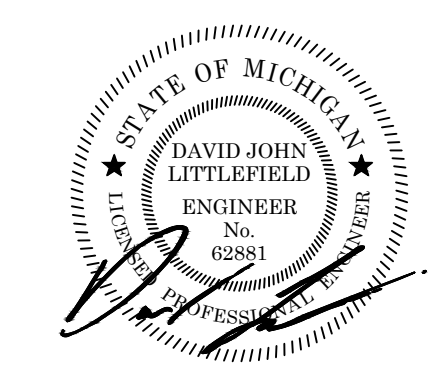
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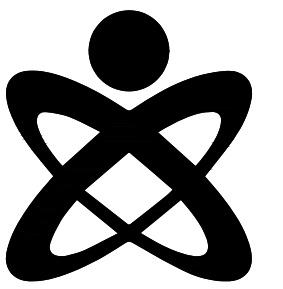
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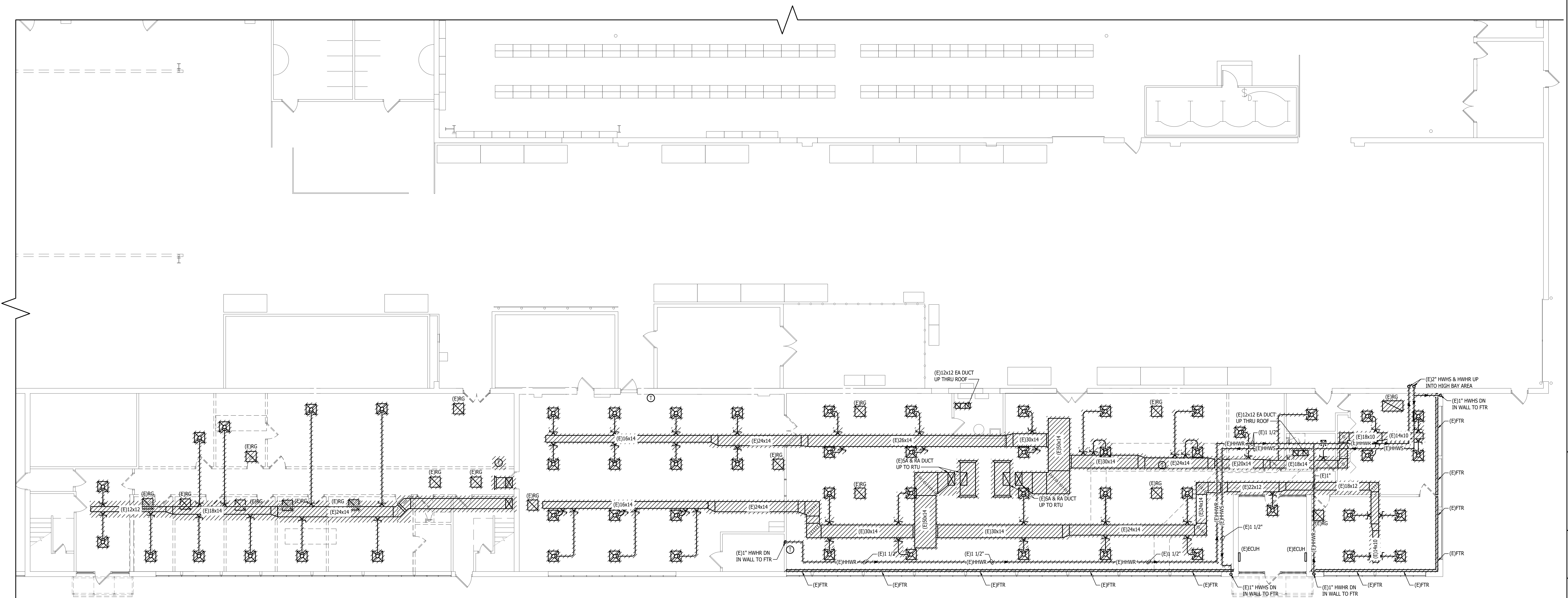
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MECHANICAL DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

**MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING**

MECHANICAL DEMOLITION
FIRST FLOOR PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
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- FINAL RECORD

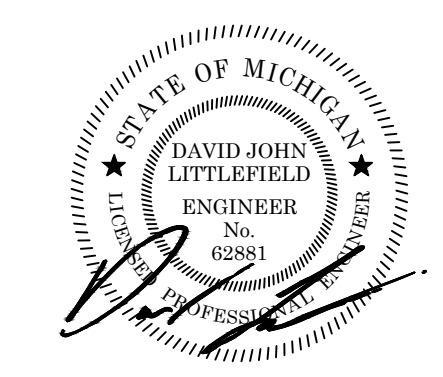
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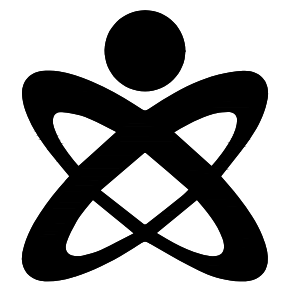
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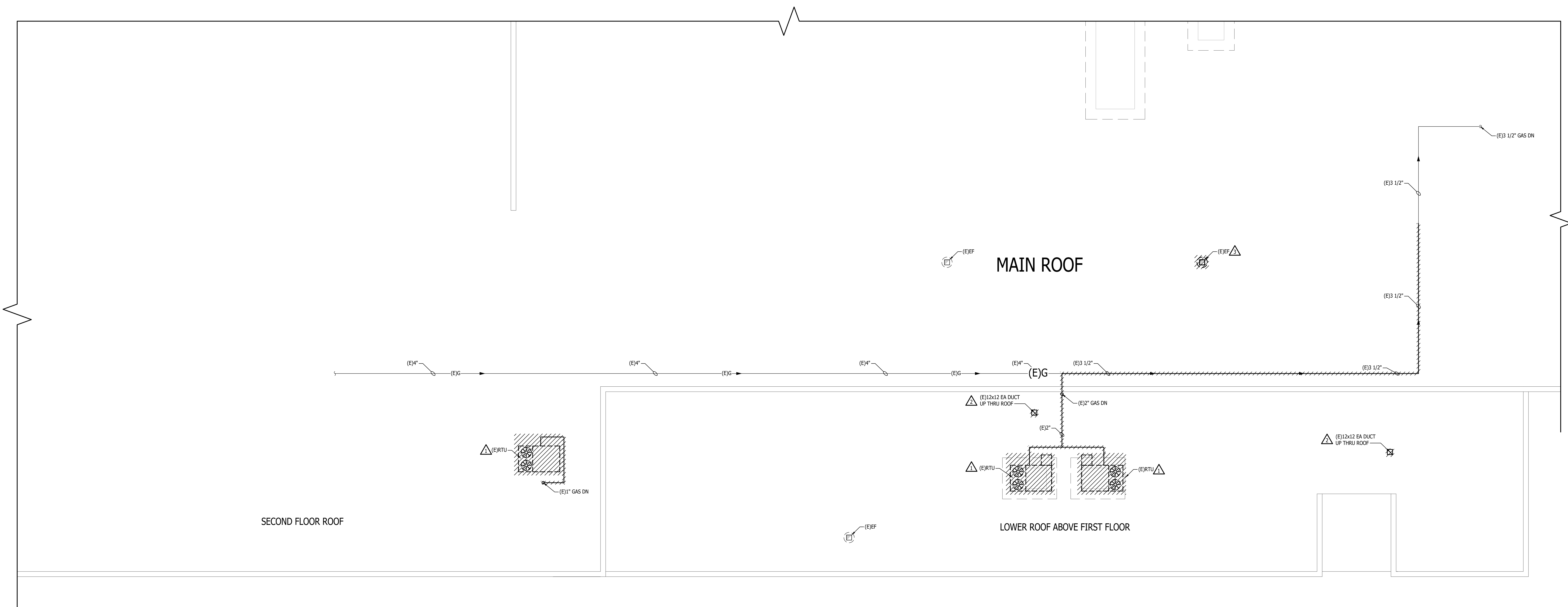
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H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

DEMOLITION KEYED NOTES	
1	DEMO ROOF TOP UNIT COMPLETE INCLUDING ALL DUCT WORK, CURB, CONTROLS AND ACCESSORIES. COORDINATE WITH ARCHITECTURAL FOR INFILL AND SEAL ROOF WEATHER TIGHT.
2	DEMO EXHAUST DUCT COMPLETE INCLUDING ALL DUCT WORK, CURB, AND ACCESSORIES. COORDINATE WITH ARCHITECTURAL FOR INFILL AND SEAL ROOF WEATHER TIGHT.
3	DEMO EXHAUST FAN COMPLETE INCLUDING ALL DUCT WORK, CURB, CONTROLS AND ACCESSORIES. COORDINATE WITH ARCHITECTURAL FOR INFILL AND SEAL ROOF WEATHER TIGHT.



MECHANICAL DEMOLITION ROOF PLAN
SCALE: 1/8" = 1'-0"

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

MECHANICAL DEMOLITION
ROOF PLAN

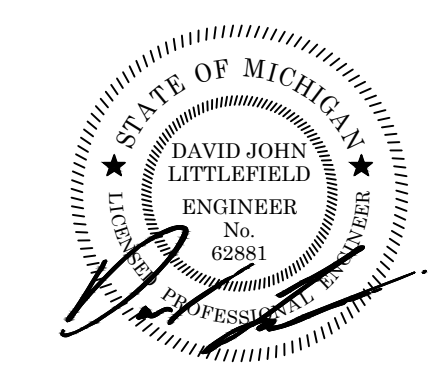
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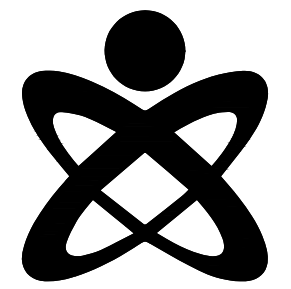
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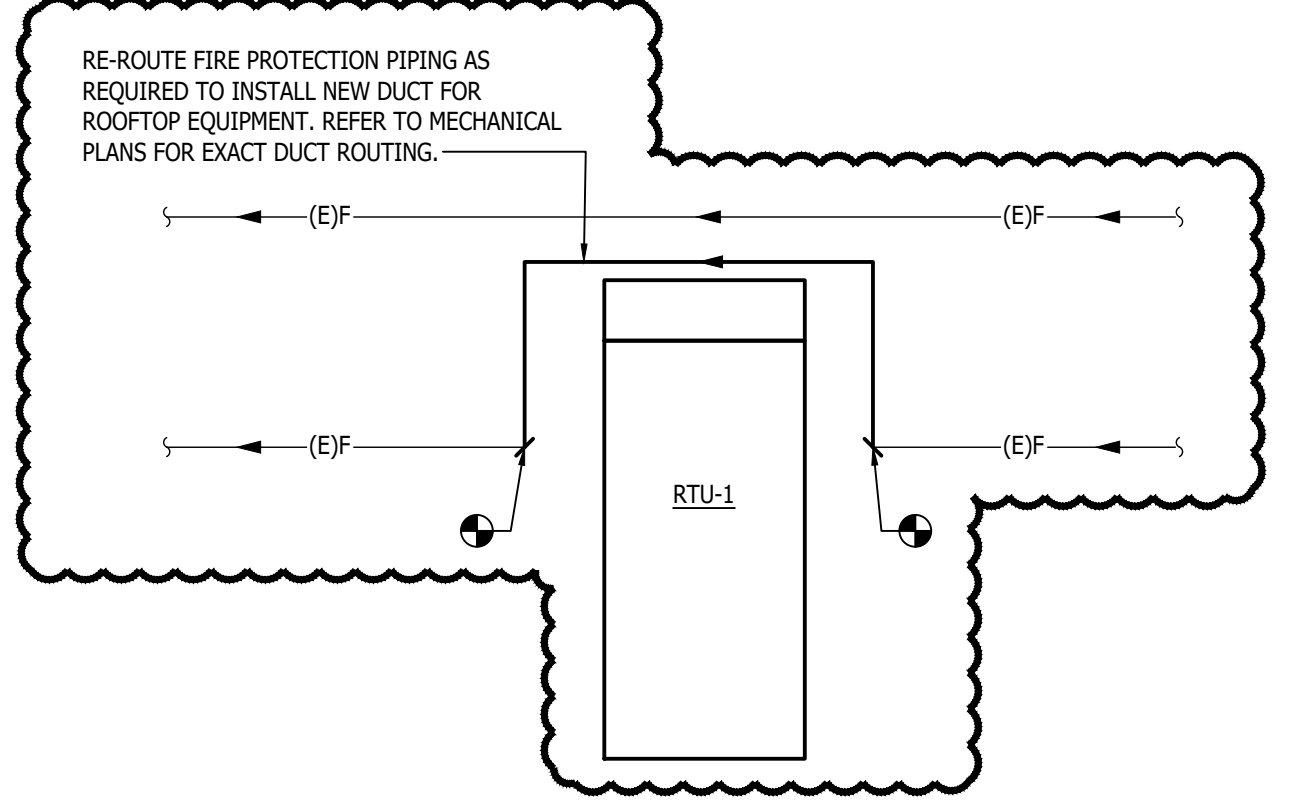
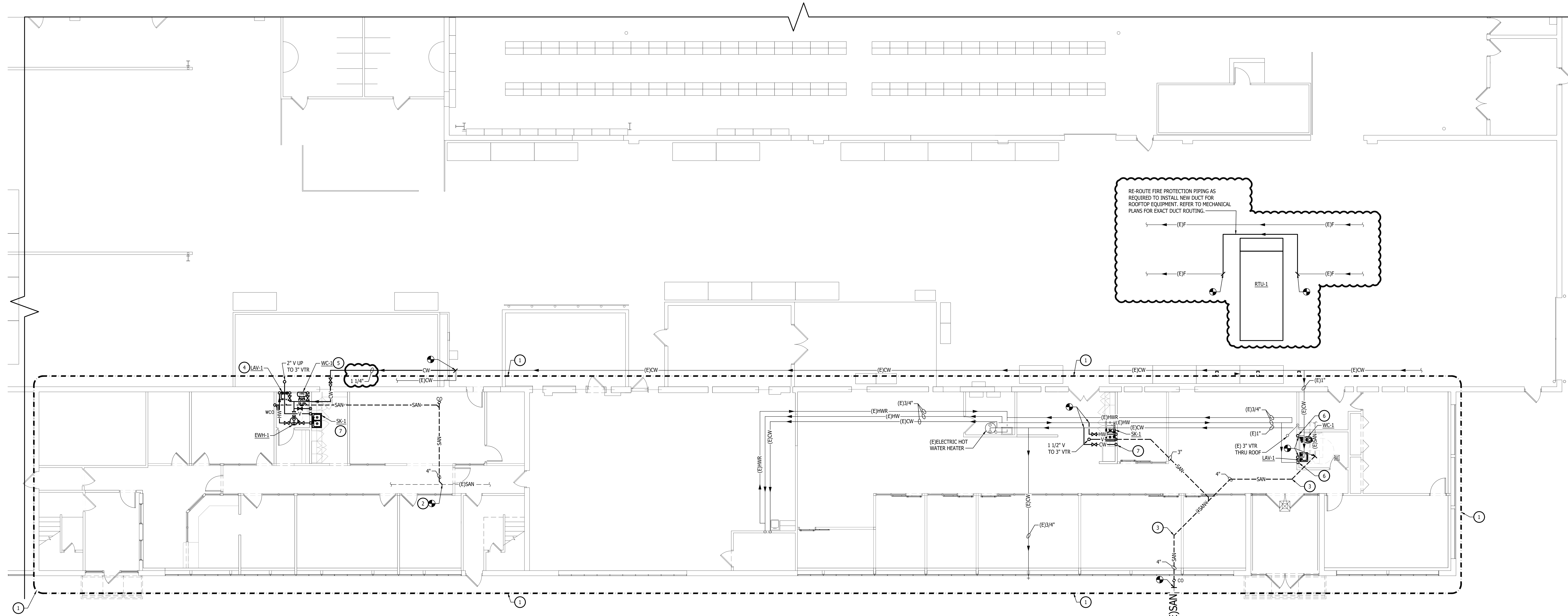




FIRE PROTECTION GENERAL NOTES	
1	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE/REWORK FIRE PROTECTION SYSTEMS COMPLETE, PER APPLICABLE CODES, NFPA, OWNERS, INSURERS REQUIREMENTS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
2	CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW MECHANICAL EQUIPMENT.
3	MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
4	FIRE PROTECTION TRADES SHALL SUBMIT PLANS, FLOW AND PRESSURE TEST AND CALCULATIONS TO THE LOCAL FIRE MARSHAL AND TO THE BUILDING'S INSURING AGENCY FOR APPROVAL. CONTRACTOR SHALL THEN MAKE ALL NECESSARY CORRECTIONS AND RESUBMIT PLANS AND CALCULATIONS FOR RECORD TO THE ARCHITECT AS WELL AS THE FIRE MARSHAL.
5	CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTS AND PAY FOR ALL FEES, PERMITS, INSPECTIONS, AND LICENSES, AS REQUIRED BY THE LOCAL AUTHORITY.

PLUMBING GENERAL NOTES	
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H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
J	INSTALL ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS NOTED OTHERWISE. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
K	PROVIDE "IN-LINE" WATERLESS PRIMER TRAP SEAL PROTECTION ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
L	AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT OFF VALVE, TEE, AND 6" LONG DIRT LEG WITH CAP.
M	THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT WIRING, ETC. SHALL BE USED. ALL MATERIALS TO BE USED ARE TO BE PLENUM RATED.

NEW WORK KEYED NOTES	
1	IN AREA INDICATED, RE-WORK WET PIPE FIRE PROTECTION IN ACCORDANCE WITH NFPA 13 STANDARDS AND NEW ARCHITECTURAL LAYOUT.
2	CONNECT 4" SANITARY TO EXISTING SANITARY MAIN AT APPROXIMATE LOCATION SHOWN. FIELD VERIFY SIZE, DIRECT, AND ELEVATION PRIOR TO COMMENCEMENT OF WORK. IF LOCATION VARIES GREATLY THAN WHAT IS IN THE FIELD, NOTIFY ENGINEER.
3	REPLACE EXISTING SANITARY MAIN AT LOCATION INDICATED. FIELD VERIFY EXACT LOCATION IN FIELD PRIOR TO INSTALLATION. RE-WORK SANITARY AND VENT PIPING AT WATER CLOSET AND LAVATORY AS REQUIRED FOR INSTALLATION OF NEW SANITARY MAIN.
4	ROUTE 1/2" CW, 1/2" HW, 1 1/2" SAN, AND 1 1/2" V PIPING DOWN IN WALL AND CONNECT TO LAVATORY.
5	ROUTE 1" CW AND 4" SAN PIPING DOWN IN WALL AND CONNECT TO WATER CLOSET.
6	REPLACE PLUMBING FIXTURE IN LOCATION OF EXISTING. RE-WORK DOMESTIC WATER PIPING AND SANITARY/VENT PIPING AS REQUIRED FOR INSTALLATION OF NEW PLUMBING FIXTURE. PROVIDE NEW STOPS.
7	ROUTE 1/2" CW, 3/4" HW, 2" SAN, AND 1 1/2" V DOWN IN WALL. EXTEND AND CONNECT 1/2" CW, 1/2" HW, 1 1/2" SAN, AND 1 1/2" V TO SINK. EXTEND 1/2" HW AND 1 1/2" SAN TO DISHWASHER. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION. PROVIDE 1/2" CW WITH 100% DOUBLE CHECK VALVE AND ISOLATION VALVE FOR FUTURE COFFEE MAKER (BY OTHERS) CONFIRM EXACT LOCATION OF TERMINATION WITH OWNER PRIOR TO INSTALL.



PLUMBING NEW WORK FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

MACOMB COUNTY
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PLUMBING NEW WORK FIRST FLOOR PLAN

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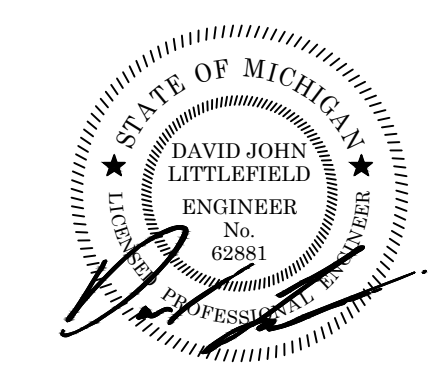
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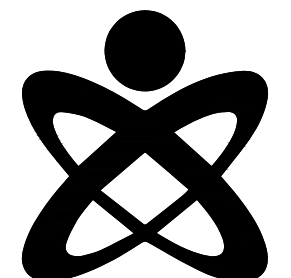
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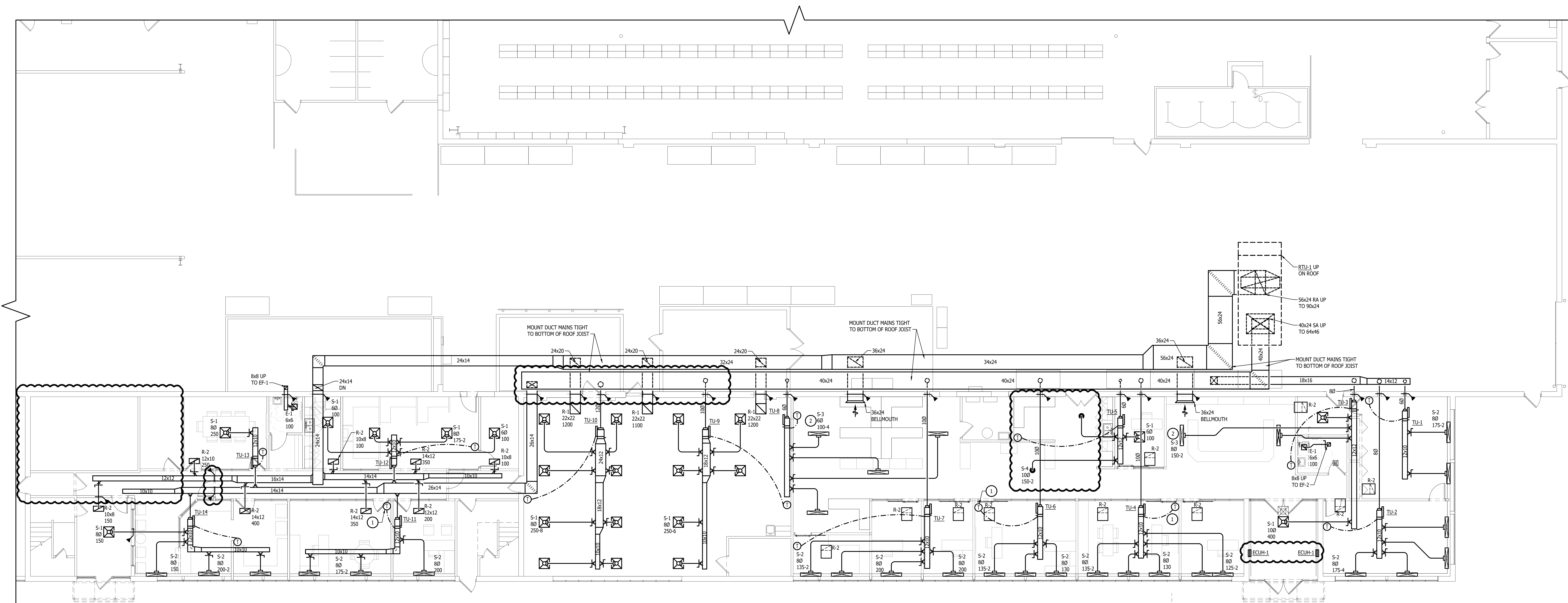
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NEW WORK KEYED NOTES	
1	INSTALL THERMOSTAT IN FURNITURE SYSTEM PATHWAY ABOVE LIGHT SWITCH. REMOVE SECTION OF PARTITION AS REQUIRED FOR INSTALLATION. COORDINATE ALL REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO INSTALLATION.
2	INSTALL LINEAR SLOT DIFFUSERS IN ARCHITECTURAL WOOD SLOTTED CEILING. COORDINATE MOUNTING REQUIREMENTS IN FIELD PRIOR TO INSTALLATION.

HVAC GENERAL NOTES	
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C	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO INDEMNIFY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEY'S FEES ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	CONTRACTOR TO EXAMINE ALL ADJOINING WORK BEFORE COMMENCEMENT OF HIS/HER SCOPE OF WORK. REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL. COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE THAT INSTALLATION IS MADE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
F	PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT; DUCTWORK/PIPPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
G	CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. ALL PIPING CONNECTIONS SHALL BE MINIMUM 3/4" UNLESS NOTED OTHERWISE.
H	FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING DOCUMENTS AS REQUIRED BY THE OWNER.
J	SUPPORT ALL ANCHORS SECURED TO THE BOTTOM OF FLOOR SLABS SHALL BE DROP-IN OR SLEEVE ANCHOR TYPE. ALL SUPPORTING STEEL SHALL BE PROVIDED BY THE CONTRACTOR.
K	DUCTWORK/PIPPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
L	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL FOR THE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
M	BRANCH DUCTWORK TO GRILLES, REGISTERS, AND DIFFUSERS SHALL BE THE SAME SIZE AS THE TERMINAL DEVICE NECK SIZE WHERE NO DUCT SIZE IS INDICATED.



MECHANICAL NEW WORK FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

**MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING**

MECHANICAL NEW WORK
FIRST FLOOR PLAN

PRELIMINARY
DESIGN DEVELOPMENT
CONSTRUCTION
FINAL RECORD

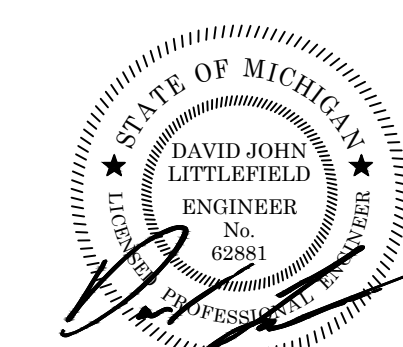
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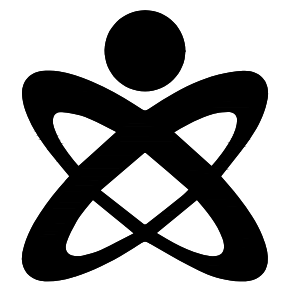
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ADDENDUM No. 1 11/7/2024

DATE: OCTOBER 31, 2024
SHEET NO.

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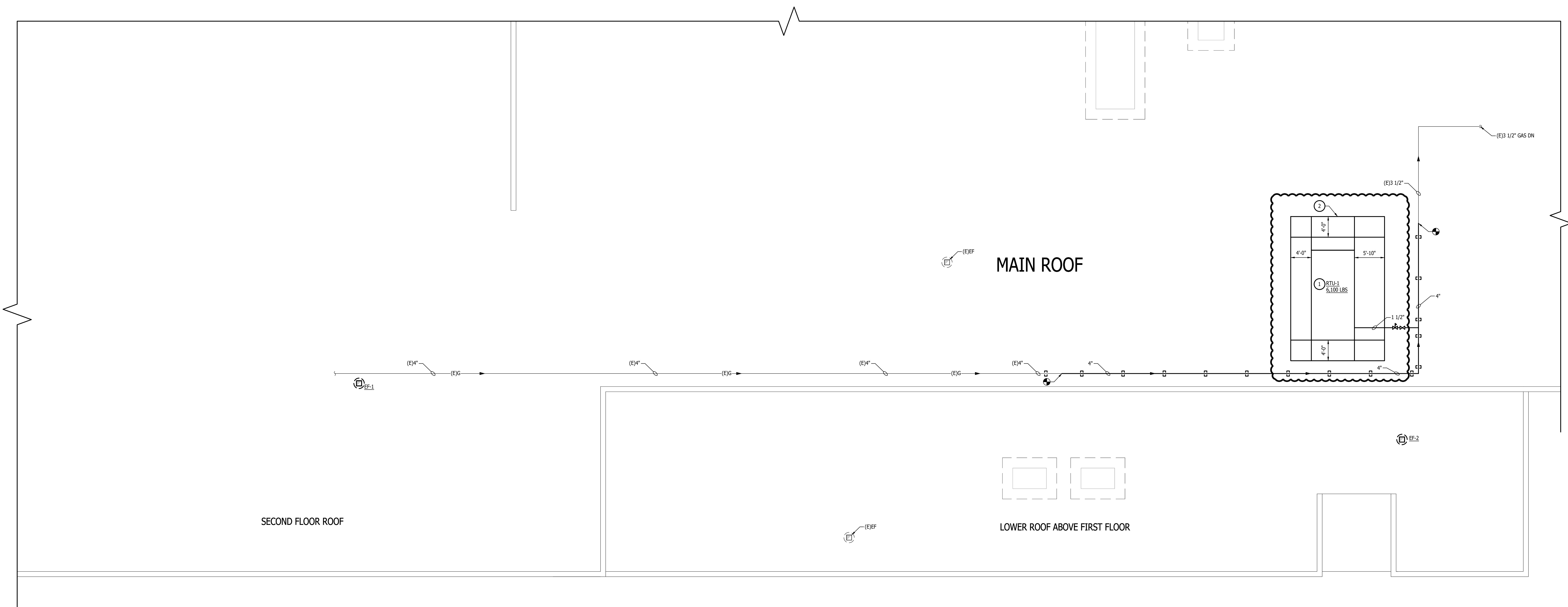
JOB NO. 242053





NEW WORK KEYED NOTES	
1	COORDINATE ROOF TOP UNIT IN FIELD WITH DOUBLE ROOF JOIST CONFIGURATION FOR UNIT SUPPORT. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL PRIOR TO INSTALLATION.
2	PROVIDE CITYSCAPES ROOFTOP MOUNTED DIVISOR SCREEN 4-SIDED AROUND ROOFTOP UNIT. PROVIDE WITH PAN-METAL PERFORATED PANELS. FINISH TO BE SELECTED BY ARCHITECT. REFER TO DETAIL SHEET FOR FURTHER INFORMATION. PANEL HEIGHTS SHALL BE 7" MINIMUM. PROVIDE PILING TO PROVIDE FULL HEIGHT PANELS TO COVER UNIT. UNIT HEIGHT IS 102".

HVAC GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES, INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD, IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
C	THE CONTRACTOR AND EACH SUBCONTRACTOR COVENANTS AND AGREES TO INDEMNIFY, DEFEND, AND HOLD HARMLESS THE CONSULTING ENGINEER, ARCHITECT, AND OWNER FROM AND AGAINST ANY LIABILITY, LOSS, DAMAGE, OR EXPENSE INCLUDING ATTORNEY'S FEES ARISING FROM A FAILURE OR ALLEGED FAILURE ON THE PART OF THE CONTRACTOR, SUBCONTRACTORS, AND THEIR AGENTS/EMPLOYEES PROPERLY TO DISCHARGE THE OBLIGATIONS ASSUMED BY HIM/HER IN THE PERFORMANCE OF THE WORK, INCLUDING ANY ACT OR OMISSION ALLEGEDLY RESULTING IN DEATH, PERSONAL INJURY, PROPERTY DAMAGE, OR IMPROPER CONSTRUCTION PROTOCOL.
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MECHANICAL NEW WORK ROOF PLAN
SCALE: 1/8" = 1'-0"

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

MECHANICAL NEW WORK
ROOF PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

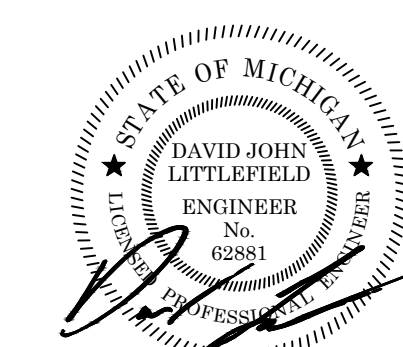
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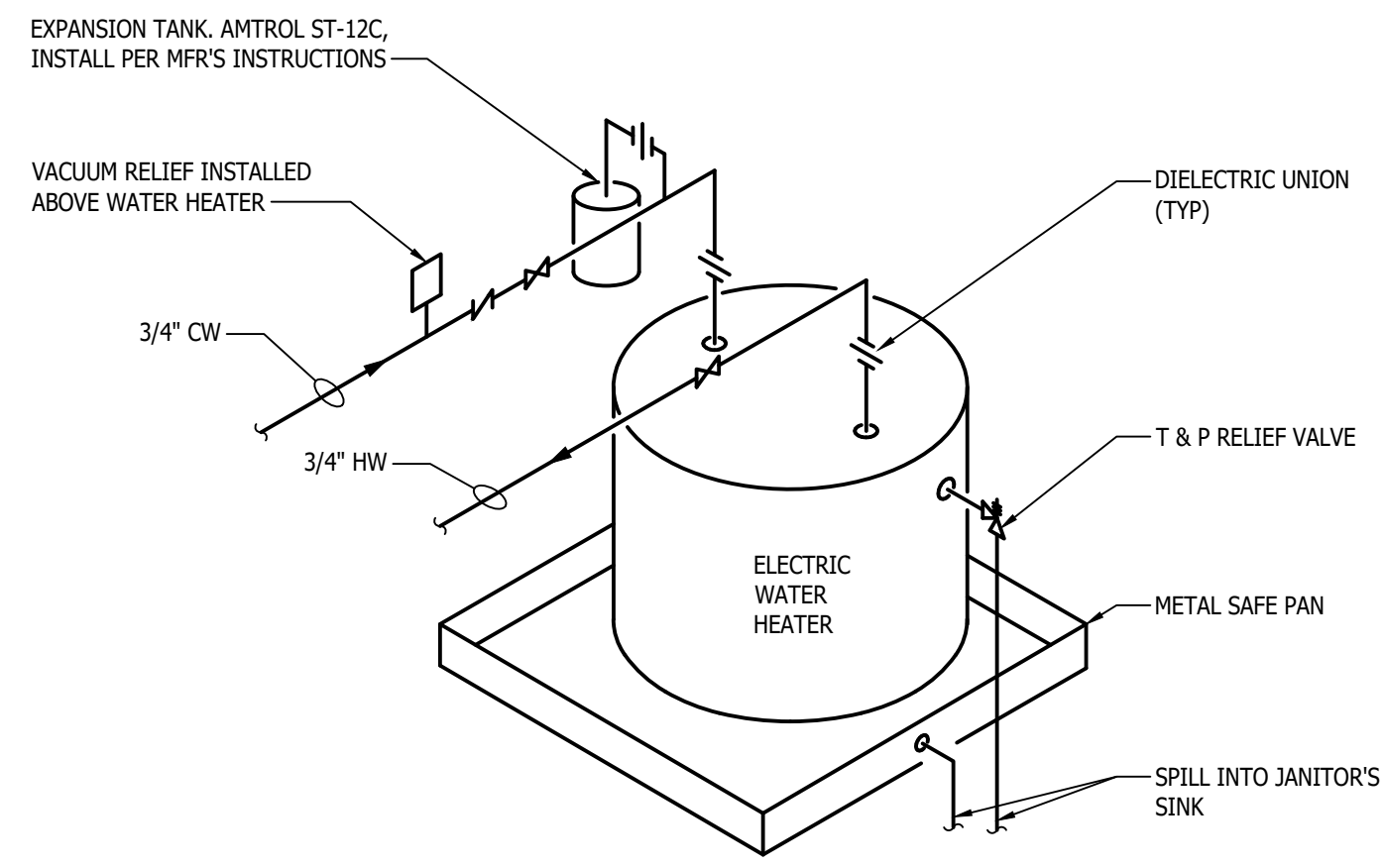
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DATE: OCTOBER 31, 2024
SHEET NO.

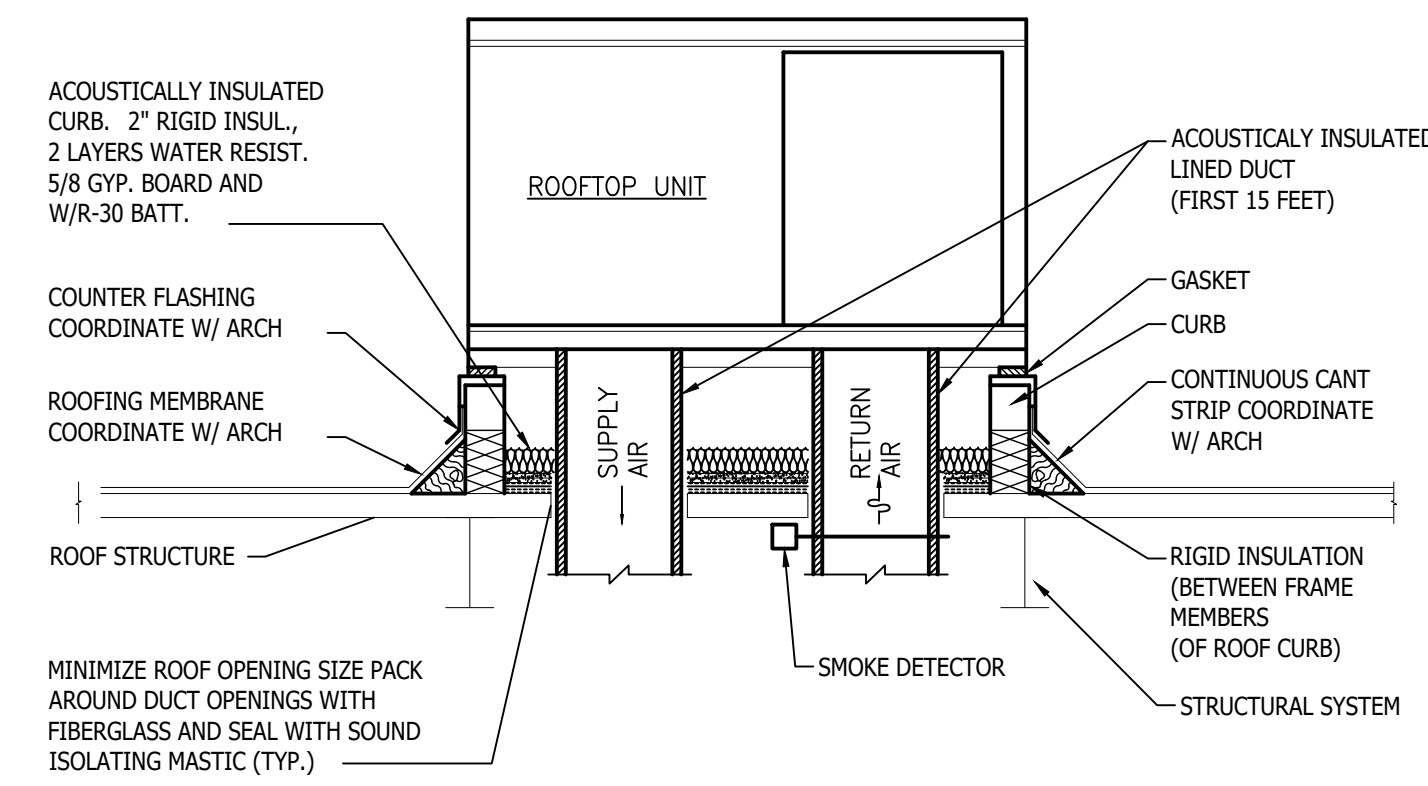
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JOB NO. **242053**

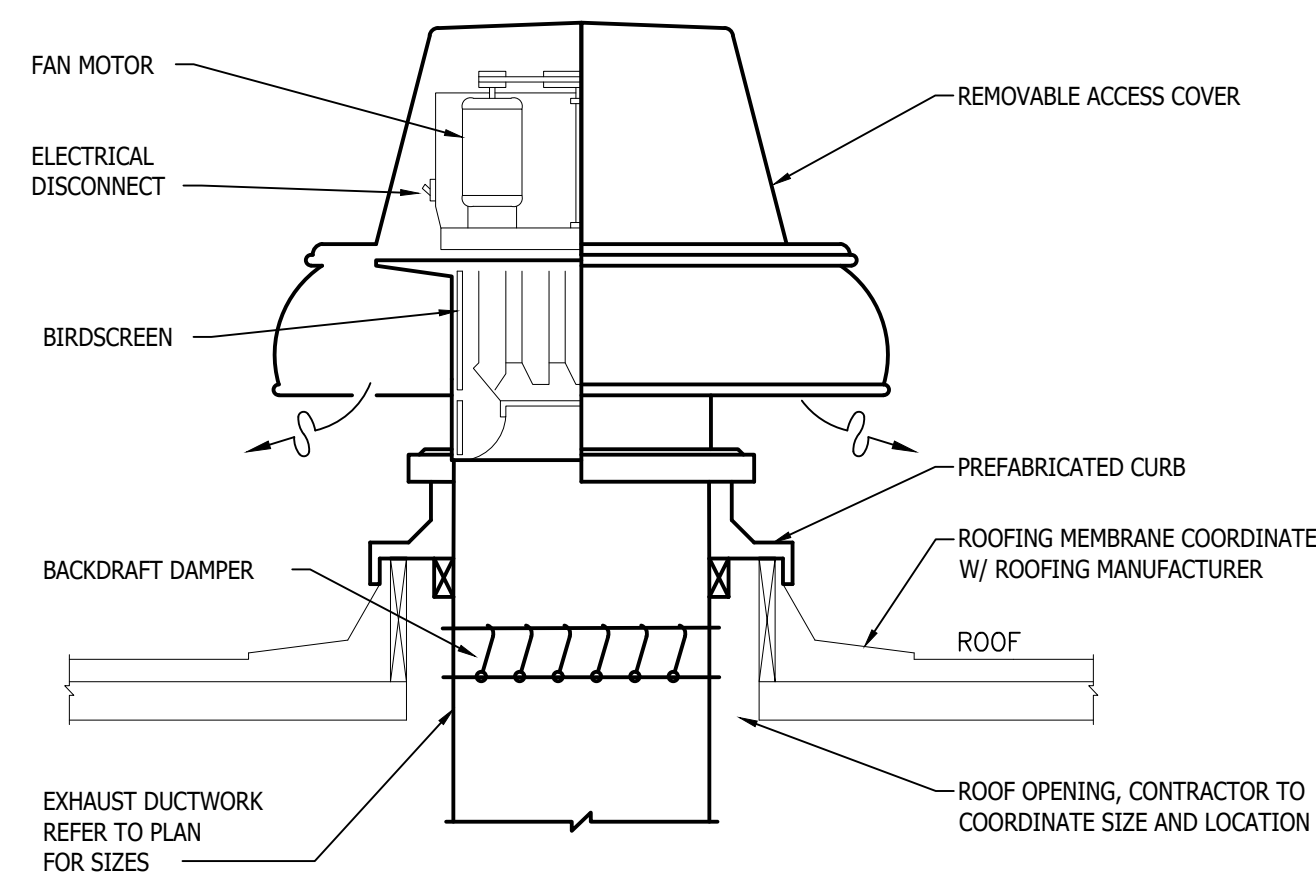




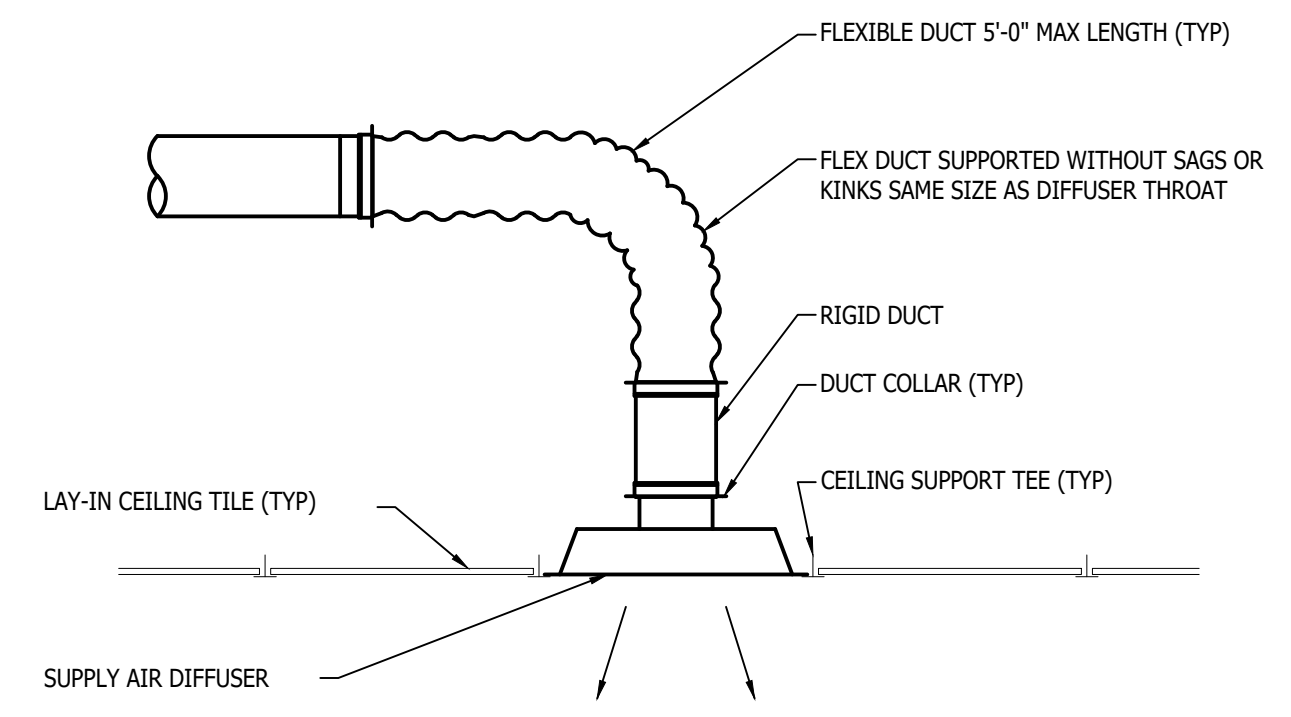
ELECTRIC WATER HEATER ON SHELF WITH EXPANSION TANK
NO SCALE



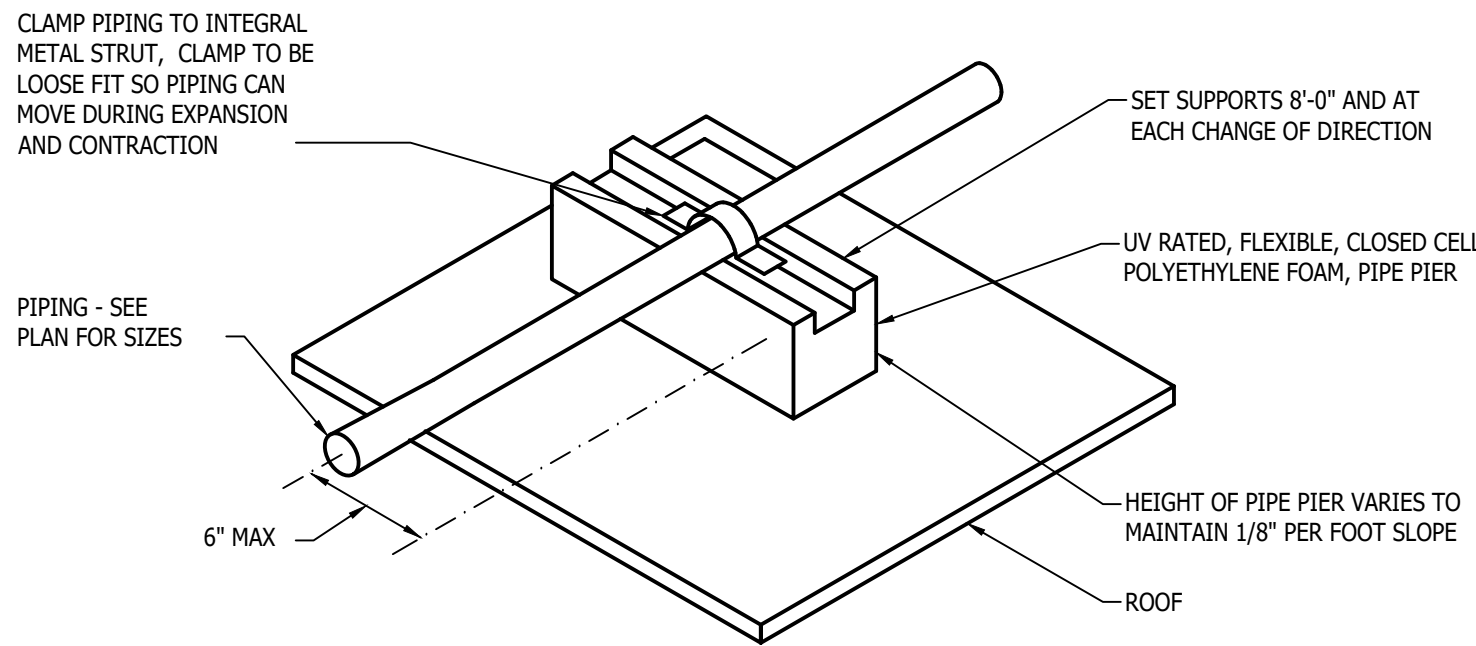
ROOFTOP UNIT - CURB MOUNTING DETAIL
NO SCALE



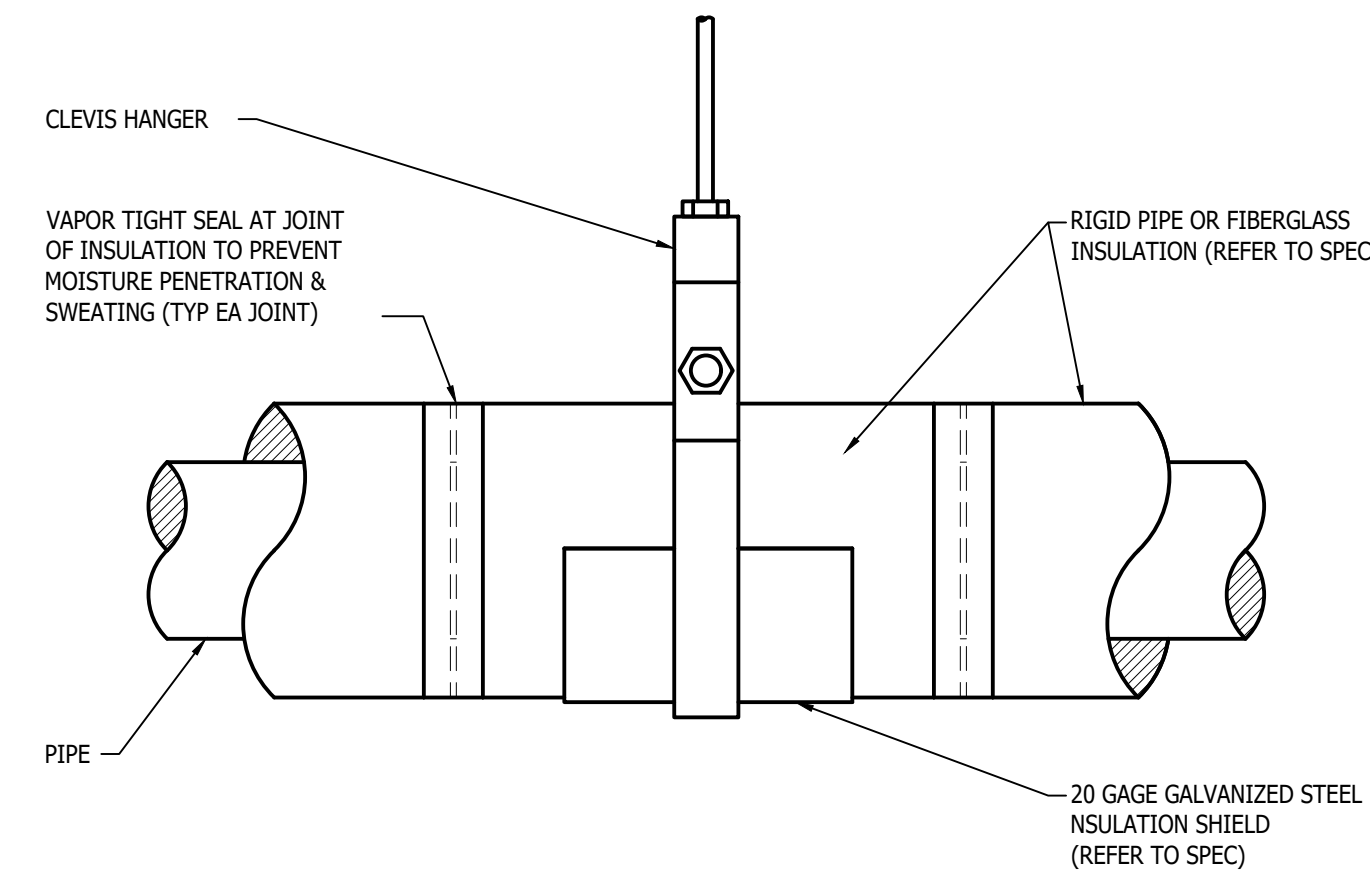
ROOF EXHAUST FAN MOUNTING DETAIL
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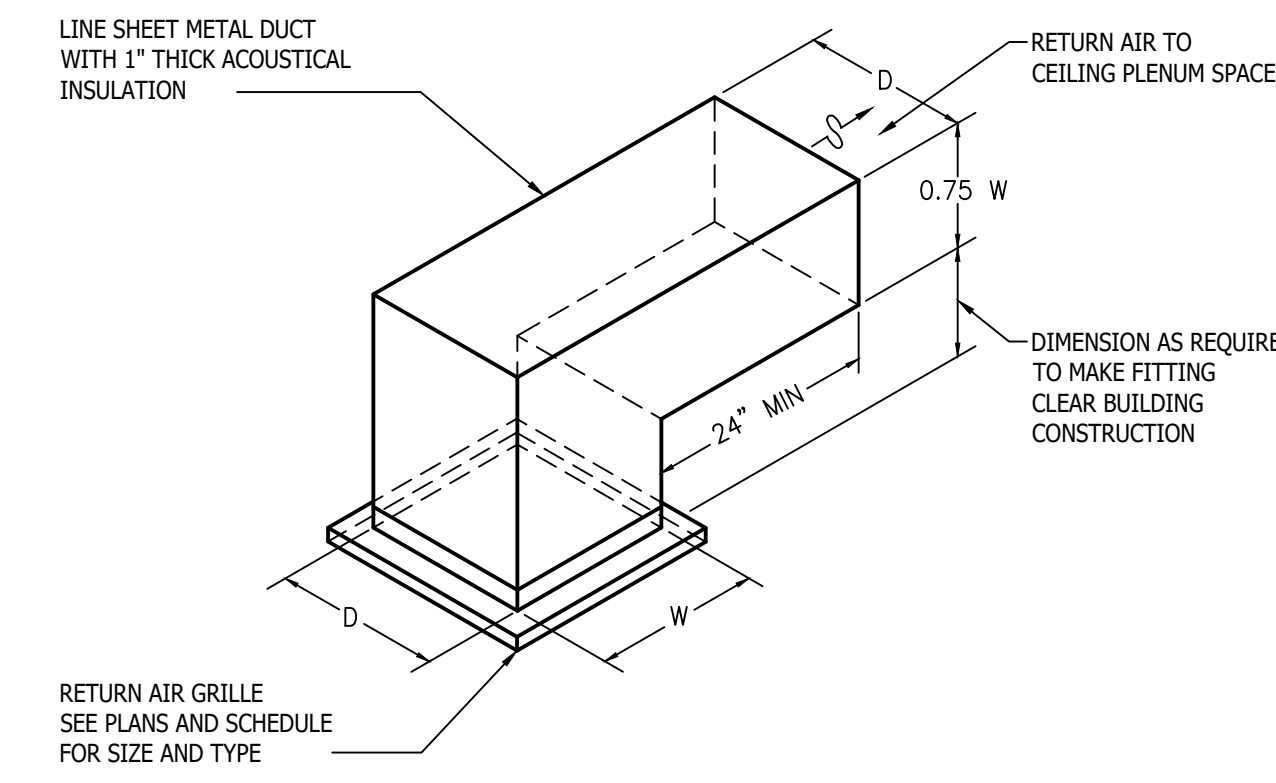
SUPPLY AIR DIFFUSER DETAIL
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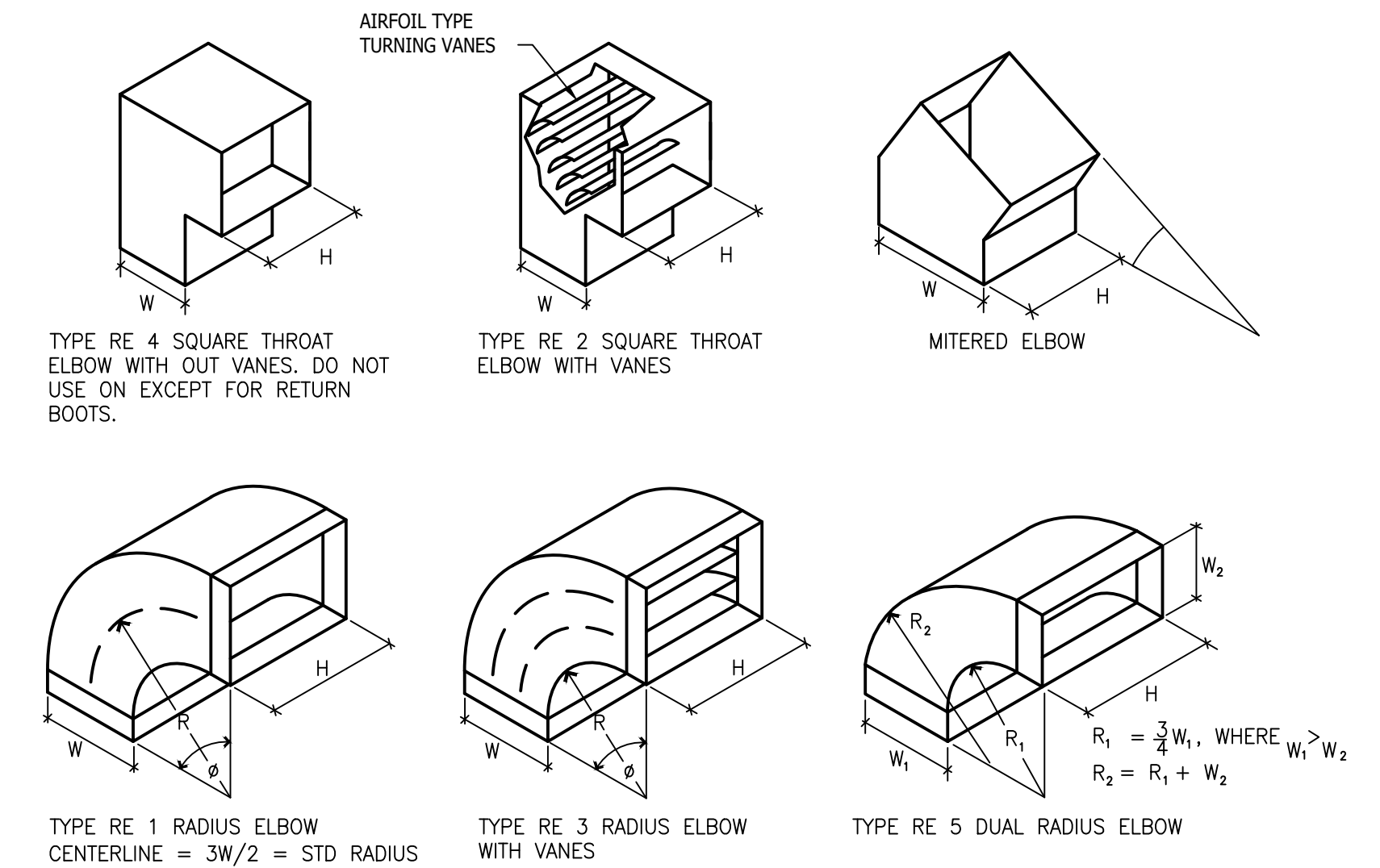
ROOF GAS PIPE SUPPORT DETAIL
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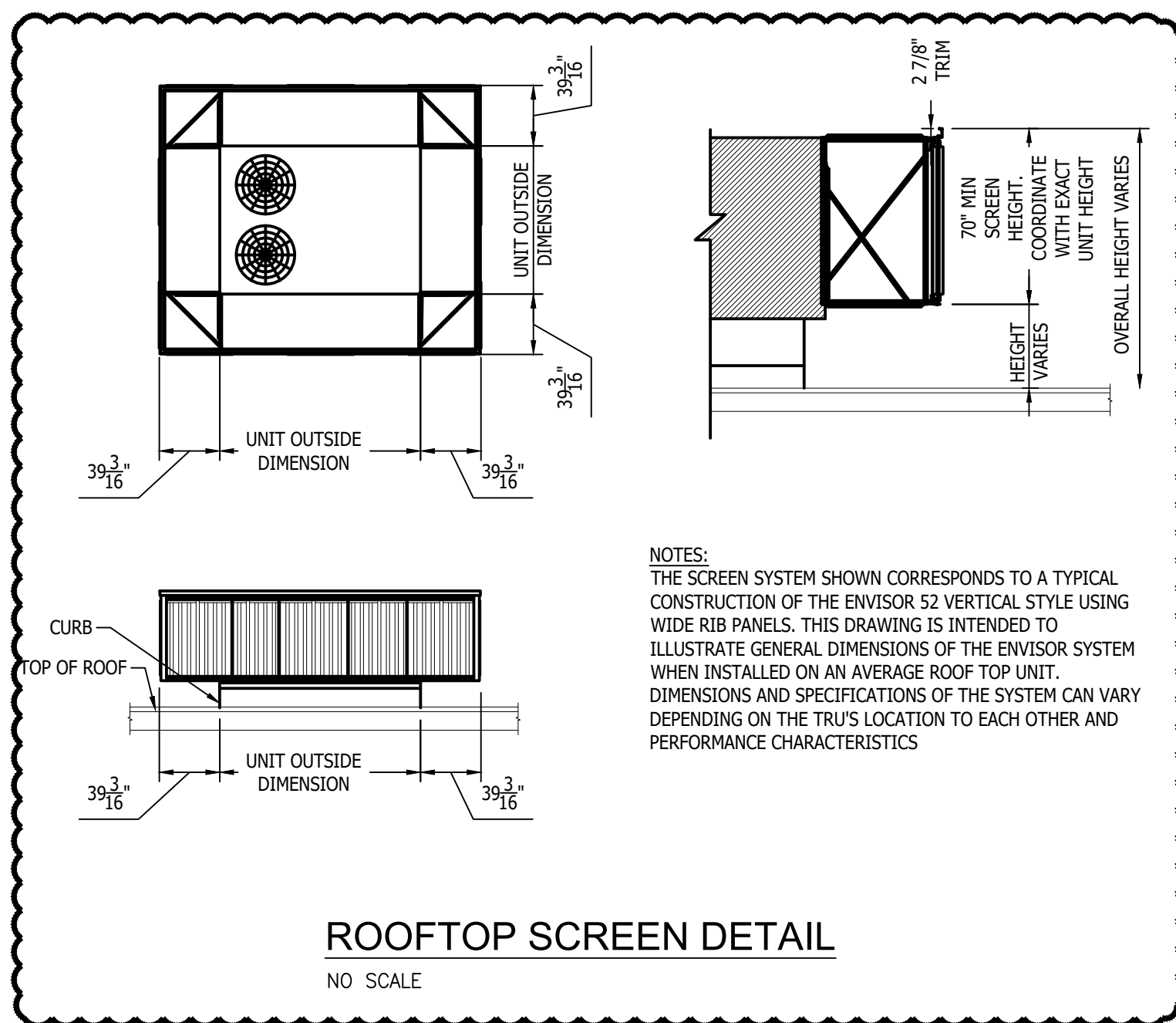
ELEVATION



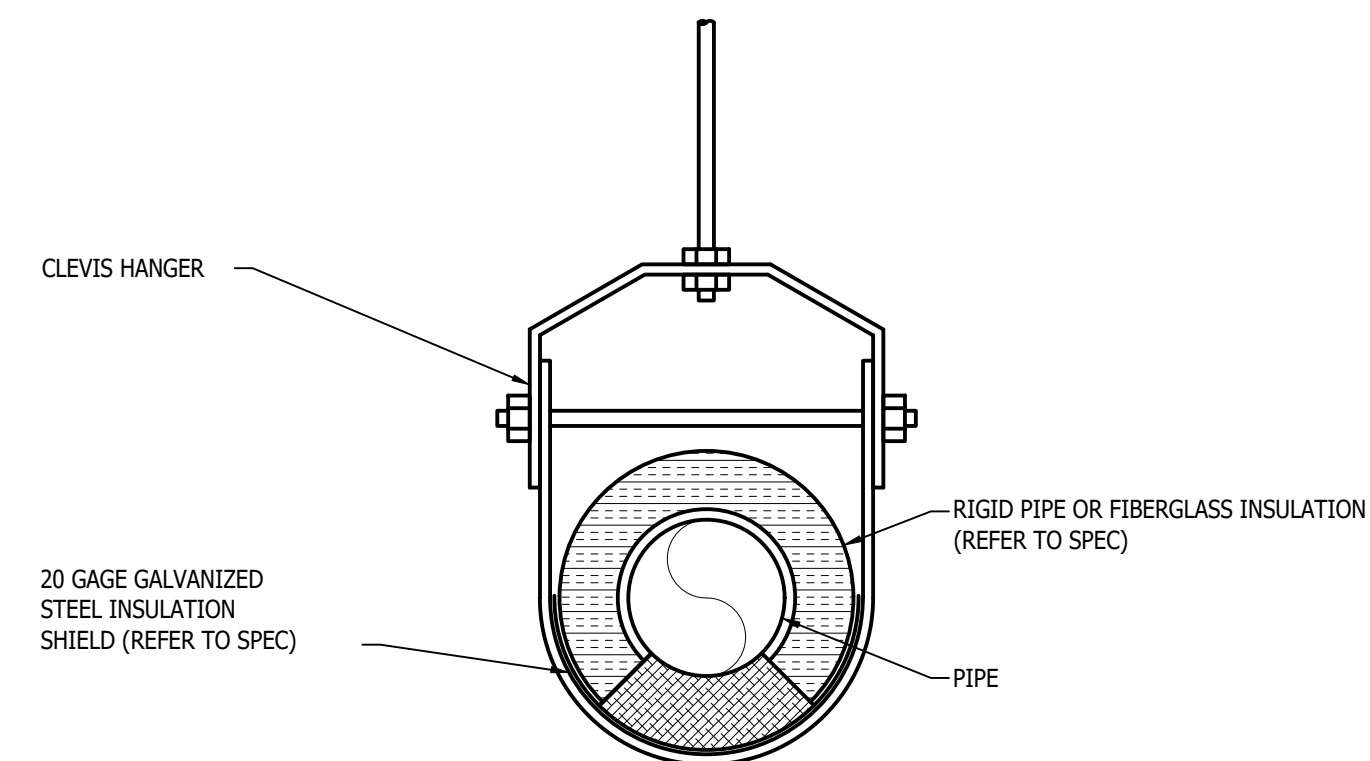
PLENUM RETURN GRILLE/BOOT DETAIL
NO SCALE



RECTANGULAR SHEET-METAL ELBOWS
NO SCALE



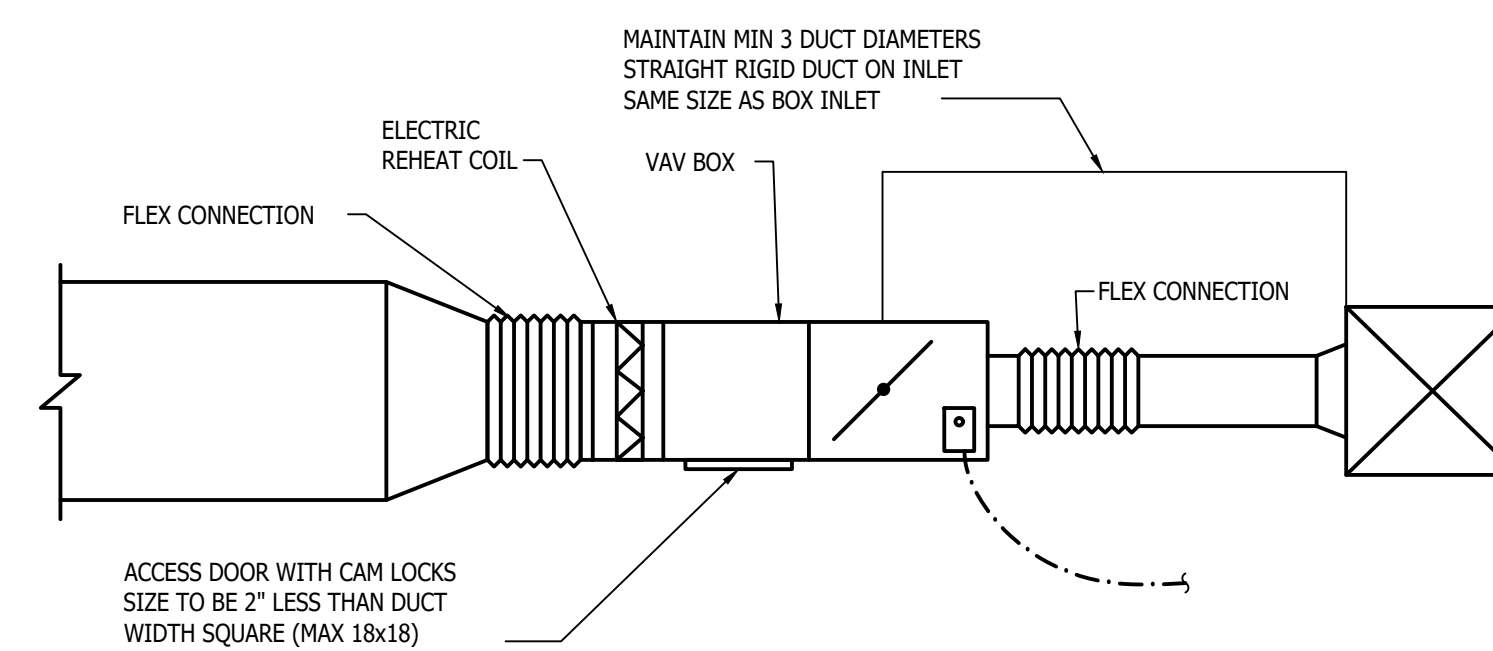
ROOFTOP SCREEN DETAIL
NO SCALE



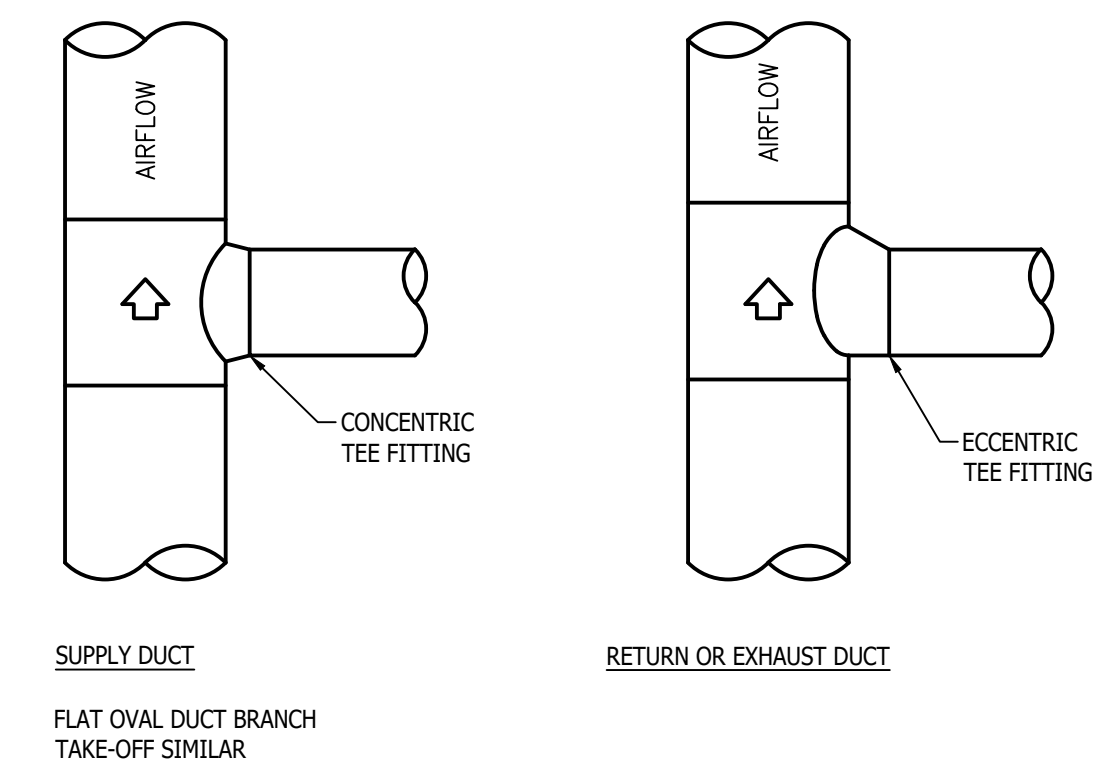
SECTION

NOTES:
PRE-INSULATED PIPE SUPPORTS SHALL BE USED TO ALLOW PROPER ALIGNMENT OF PIPING DURING INSTALLATION. PRE-INSULATED HANGERS SHALL BE PIPE SHIELDS INCORPORATED OR APPROVED EQUAL, REFER TO SPECIFICATIONS.

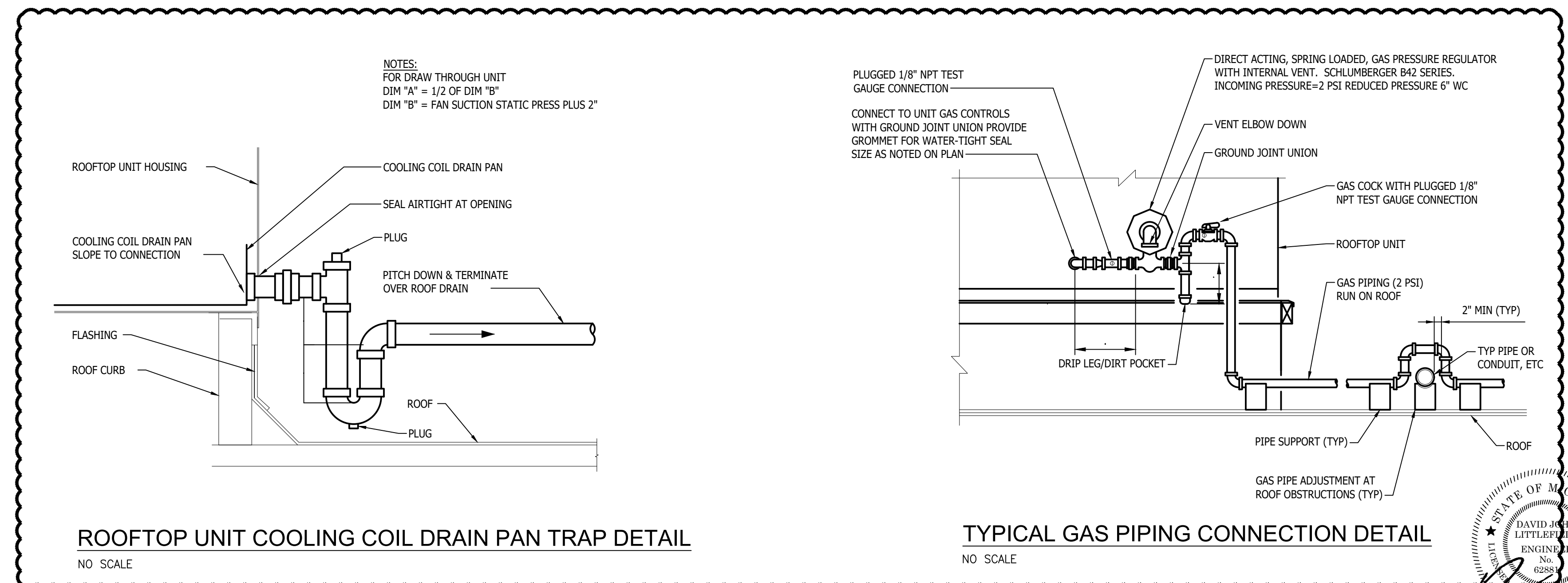
INSULATED PIPE HANGER DETAIL
NO SCALE



VAV BOX INSTALLATION DETAIL
NO SCALE

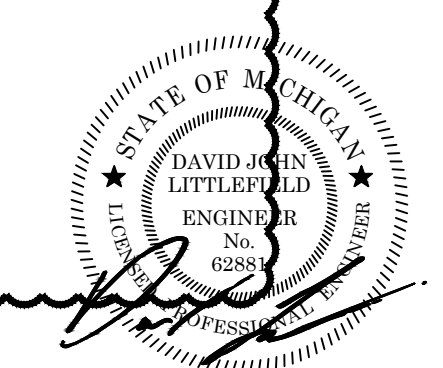


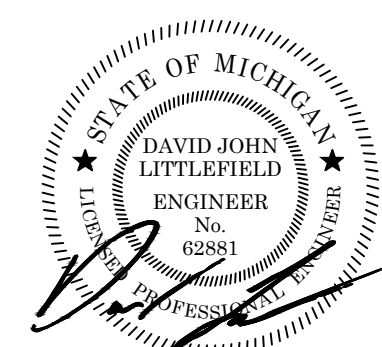
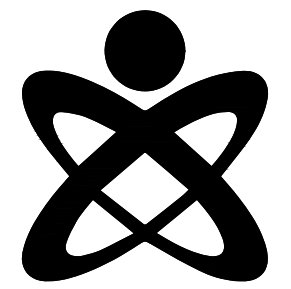
ROUND DUCT BRANCH TAKE-OFF DETAILS
NO SCALE



ROOFTOP UNIT COOLING COIL DRAIN PAN TRAP DETAIL
NO SCALE

TYPICAL GAS PIPING CONNECTION DETAIL
NO SCALE





PACKAGED COMMERCIAL ROOFTOP UNIT SCHEDULE - (DX - GAS)																																			
UNIT ID	TOTAL SUPPLY (CFM)	MINIMUM OA (CFM)	SUPPLY FAN				DX COOLING COIL						NATURAL GAS HEATING SECTION						POWER EXHAUST OR BAROMETRIC RELIEF	FILTER TYPE	ELECTRICAL				DISCONNECT		CURB HEIGHT (IN)	MANUFACTURER / MODEL NO.	REMARKS						
			ESP (IN WG)	FAN TYPE	DRIVE TYPE	BHP	HP	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	APD (IN WG)	MIN. EFFICIENCY (EER)	REFRIGERANT TYPE	INPUT (MBH)	OUTPUT (MBH)			GAS PRESS. MIN. - MAX. (IN WG)	STAGES OR MODULATION TURNDOWN	BURNER TYPE	EAT (°F)	LAT (°F)	MOC/P				MCA	FLA	VOLTS	PHASE	FURN. BY	INST. BY
RTU-1	10,600	1,700	1.5	SWSI	DIRECT	8.05	15.0	346.6	275.4	77.4	64.3	55.1	53.7	0.19	10.68	R-454B	600.0	486.0	4-14	10:1	INDIRECT	57.2	99.4	POWER EXHAUST	2" MERV 8	100	88	83	460	3	MC	MC	14	AACR / RMA-031-D-A-3-GAR08-CBZL0-00-04HAL-G00-00000-ABN3-EC-CB0-A-00-00-0-AND-ED-N000-00-5V0-A0000-C000B-00000B	

- NOTES:
- DUAL INPUT ENTHALPY CONTROL ECONOMIZER.
 - PROVIDE WITH REFRIGERATION CONTROLS ONLY. UNIT DDC CONTROLLER TO BE FIELD INSTALLED BY TCC.
 - 2" PLEATED MEDIA FILTERS.
 - PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.
 - REFRIGERATION COMPRESSORS SHALL BE VARIABLE SPEED SCROLL.

PLUMBING FIXTURE SCHEDULE										
TAG	BARRIER FREE	ITEM	PIPE CONNECTION SIZES				MANUFACTURER & MODEL NO.	ACCESSORIES		
			WASTE	VENT	CW	HW				
SK-1	Y	SINGLE COMPARTMENT UNDERMOUNT SINK W/ DISPOSAL	1 1/2"	1 1/2"	1/2"	1/2"	ELKAY: LRAD332155	FAUCET: KOHLER STRIVE K-5285-NA, CHROME PLATED P-TRAP AND GARBAGE DISPOSAL IN-SINKERATOR EVOLUTION EXCEL.		
WC-1	Y	FLOOR MOUNTED TANK TYPE TOILET	4"	2"	1"	-	KOHLER: K-3998-0	1.28 GPF		
LAV-1	Y	COUNTED MOUNTED LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	KOHLER K-2330-G	FAUCET: PARALLEL K-2348-4N-CP; PROVIDE WITH ASSE 1070 MIXING VALVE.		

- NOTES:
- PROVIDE ALL ACCESSORIES NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
 - ALL FIXTURES SHALL MEET MICHIGAN DEPT. OF PUBLIC HEALTH REQUIREMENTS, AND SHALL BE SUITABLE FOR FOOD PREPARATION AREAS.

DOMESTIC WATER HEATER SCHEDULE (ELECTRIC TANK TYPE)											
UNIT ID	LOCATION/ AREA SERVED	STORAGE CAPACITY (GAL)	RECOVERY AT 100°F (GPH)	ELECTRICAL			DISCONNECT			MANUFACTURER / MODEL NO.	REMARKS
				INPUT (KW)	VOLTS	PHASE	FURN. BY	INST. BY	TYPE		
EW-1	PURCHASING	10	-	2.5	480	3	EC	EC	SWITCH	AO SMITH / DEL-10	

NOTES:

ELECTRIC HEATER SCHEDULE												
UNIT ID	MBH	KW	CFM	ELECTRICAL			PHYSICAL SIZE (IN)			MOUNTING	MANUFACTURER / MODEL NO.	REMARKS
				VOLTS	PHASE	AMPS	LENGTH / DEPTH	HEIGHT	WIDTH			
ECUH-1	10.2	3	100	208	1	14.0	14	19	4	2" RECESSED	QMARK / S5AR4808	

NOTES:
 ABBREVIATIONS: EBB = ELECTRIC BASEBOARD; ECH = ELECTRIC COVE HEATER; ECUH = ELECTRIC CABINET UNIT HEATER; EUH = ELECTRIC UNIT HEATER; ERCP = ELECTRIC RADIANT CEILING PANEL.

- MANUFACTURER TO PROVIDE BUILT-IN CONTROLS & FACTORY MOUNTED DISCONNECT. (IF REMOTE THERMOSTAT IS SHOWN ON DRAWINGS, PROVIDE REMOTE THERMOSTAT.

VAV TERMINAL UNIT SCHEDULE WITH TEMPERING COIL - (ELECTRIC)																
UNIT ID	AIRFLOW RANGE		INLET SP (IN WG)	DUCT CONNECTIONS		MAX NC LEVEL	ELECTRIC TEMPERING COIL (MANUFACTURER)						STAGES OF HEAT	MANUFACTURER / MODEL NO.	REMARKS	
	MIN (CFM)	MAX (CFM)		INLET SIZE (IN)	OUTLET SIZE (IN)		HTG (CFM)	APD (IN WG)	EAT (°F)	LAT (°F)	KW	VOLTS				PHASE
TU-1	145	350	0.25	60	12x8	25	350	0.25	65	90	2.8	480	3	-	PRICE / SDV6	
TU-2	250	700	0.25	8#	12x10	25	700	0.25	65	90	5.5	480	3	-	PRICE / SDV8	
TU-3	250	900	0.25	8#	12x10	25	900	0.25	65	90	7.1	480	3	-	PRICE / SDV8	
TU-4	250	650	0.25	8#	12x10	25	650	0.25	65	90	5.1	480	3	-	PRICE / SDV8	
TU-5	145	400	0.25	60	12x8	25	400	0.25	65	90	3.2	480	3	-	PRICE / SDV6	
TU-6	145	400	0.25	60	12x8	25	400	0.25	65	90	3.2	480	3	-	PRICE / SDV6	
TU-7	250	670	0.25	8#	12x10	25	670	0.25	65	90	5.3	480	3	-	PRICE / SDV8	
TU-8	145	400	0.25	60	12x8	25	400	0.25	65	90	3.2	480	3	-	PRICE / SDV6	
TU-9	375	1500	0.25	100	14x12	25	1500	0.25	65	90	11.9	480	3	-	PRICE / SDV10	
TU-10	580	2000	0.25	120	16x14	25	2000	0.25	65	90	15.8	480	3	-	PRICE / SDV12	
TU-11	145	550	0.25	8#	12x10	25	550	0.25	65	90	4.4	480	3	-	PRICE / SDV8	
TU-12	145	550	0.25	8#	12x10	25	550	0.25	65	90	4.4	480	3	-	PRICE / SDV8	
TU-13	80	250	0.25	60	12x8	25	350	0.25	65	90	2.8	480	3	-	PRICE / SDV6	
TU-14	250	700	0.25	8#	12x10	25	700	0.25	65	90	5.5	480	3	-	PRICE / SDV8	

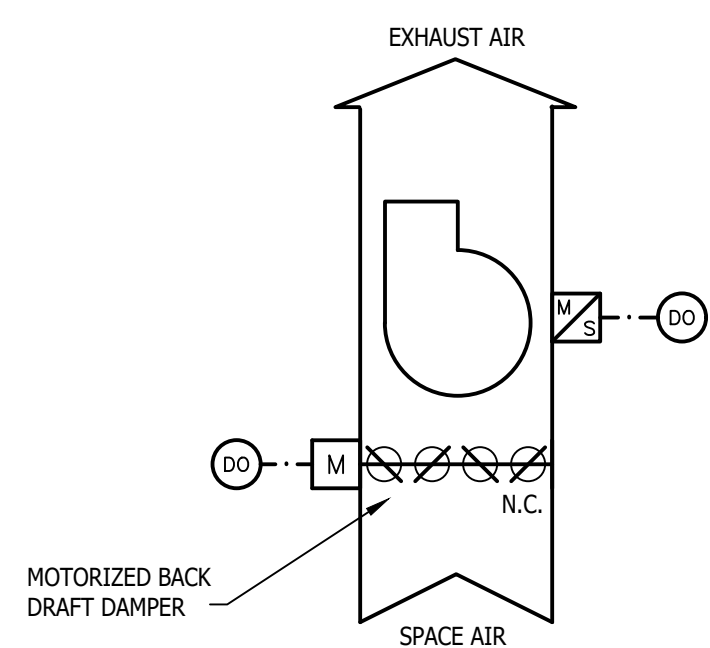
- NOTES:
- MINIMUM AND MAXIMUM AIRFLOW SHALL BE SET TO THE CFM INDICATED ON FLOOR PLANS. MAXIMUM N.C. LEVEL BASED ON 3" PRESSURE DROP WITH NO ALLOWANCE FOR EXTERNAL ATTENUATION. MAXIMUM RADIATED NC LEVEL SHALL NOT EXCEED 25.
 - DISCONNECT TO BE PROVIDED BY MANUFACTURER.
 - FIELD MOUNT CONTROLLER BY TEMPERATURE CONTROLS CONTRACTOR.

EXHAUST FAN SCHEDULE														
UNIT ID	SERVING	TYPE	CFM	ESP (IN WG)	FAN RPM	MOTOR				ELECTRICAL			MODEL NO.	REMARKS
						BHP	HP	RPM	DRIVE TYPE	VOLTS	PHASE	MOC/P		
EF-1	BATHROOM	DOWNBLAST	100	0.25	1,485	0.01	1/15	-	DIRECT	120	1	15	G-060-VG	DISCONNECT BY MANUFACTURE
EF-2	BATHROOM	DOWNBLAST	100	0.25	1,485	0.01	1/15	-	DIRECT	120	1	15	G-060-VG	DISCONNECT BY MANUFACTURE

- NOTES:
- MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED.
 - INSTALL VARIGREEN CONTROLLER BELOW ROOF.
 - INSTALL ON 14" CURB.

GRILLE, REGISTER AND DIFFUSER SCHEDULE							
UNIT ID	FACE SIZE	NECK SIZE	MOUNTING	FINISH	MATERIAL	PRICE / MODEL NO.	REMARKS
S-1	24x24	SEE PLANS	CEILING	WHITE	STEEL	SPD	
S-2	48x6	SEE PLANS	CEILING	WHITE	STEEL	TBD7	2 SLOT, 2 WAY
S-3	48x6	SEE PLANS	CEILING	MATCH CEILING COLOR	STEEL	TBD7	2 SLOT, 1 WAY, COORDINATE WITH CEILING DESIGN AND ARCHITECTURAL FOR PROPER INSTALLATION IN TO CEILING.
S-4	24-1/2"	SEE PLANS	DUCT MOUNTED	WHITE	STEEL	RCD	
R-1	24x24	22x22	CEILING	WHITE	STEEL	PDDR	PROVIDE WITH SOUND ATTEN. BOOT IF NOT DUCTED.
R-2	24"x12"	22x12	CEILING	WHITE	STEEL	PDDR or 80	PROVIDE WITH SOUND ATTEN. BOOT IF NOT DUCTED.
E-1	24x24	SEE PLANS	CEILING	WHITE	STEEL	PDDR	

- NOTES:
- COORDINATE WITH LIGHTING AND FRAME TYPE ACCORDINGLY WITH ARCHITECTURAL CEILING LAYOUT.

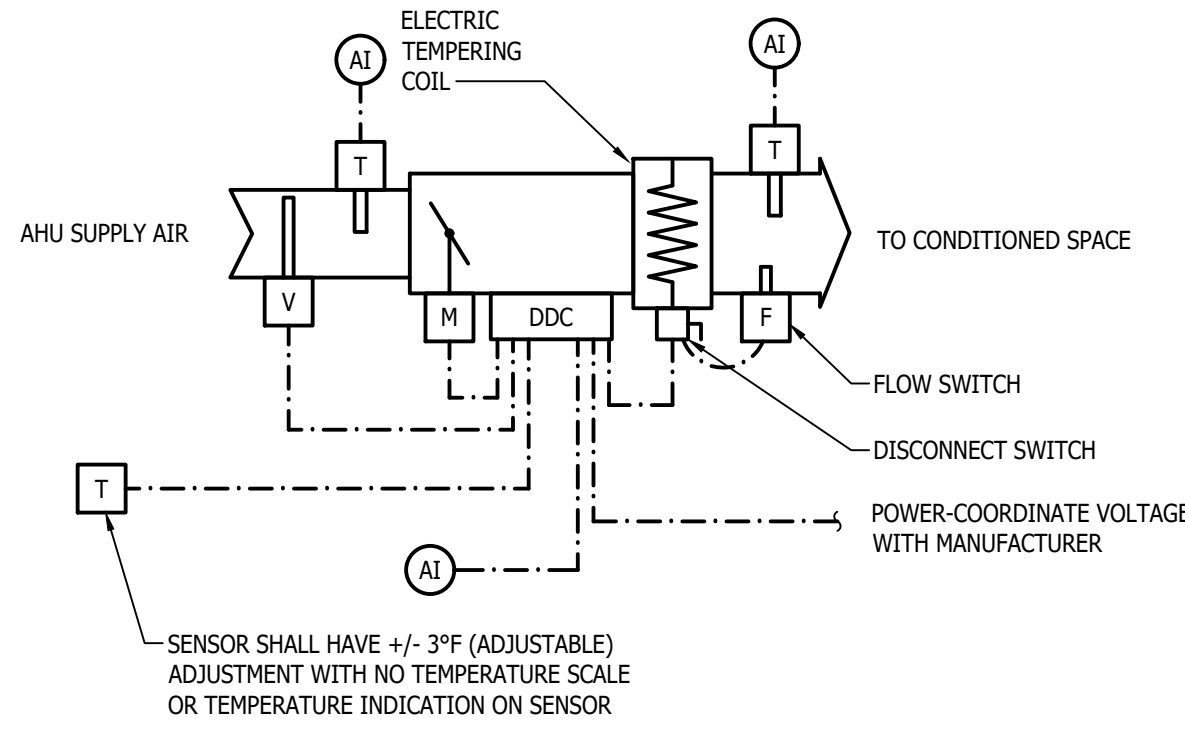


EXHAUST FAN CONTROL DIAGRAM
NO SCALE

EXHAUST FAN CONTROL DIAGRAM

NOTE: ALL SETPOINTS AND TIME INTERVALS SHALL BE ADJUSTABLE BY THE SYSTEM OPERATOR. ONLY ACCEPTABLE CONTROLS CONTRACTOR IS METRO CONTROLS.

- WITH THE EXHAUST FAN'S HAND/OFF/AUTO SWITCHES IN THE "AUTO" POSITION, THE SUPPLY FAN SHALL BE AUTOMATICALLY STARTED AND STOPPED WITH THE DDC SYSTEM OCCUPANCY SCHEDULE.
- UPON A SIGNAL TO ENERGIZE THE VENTILATION FAN, THE ISOLATION DAMPERS SHALL OPEN FULLY.
- FAN STATUS SHALL BE CONFIRMED BY A CURRENT SWITCH. UPON A FAN FAILURE, THE DDC SYSTEM SHALL ISSUE AN ALARM TO THE DDC SYSTEM.
- WHEN THE EXHAUST FAN IS DE-ENERGIZED, ITS ISOLATION DAMPER SHALL FULLY CLOSE.



VAV BOX WITH ELECTRIC REHEAT
NO SCALE

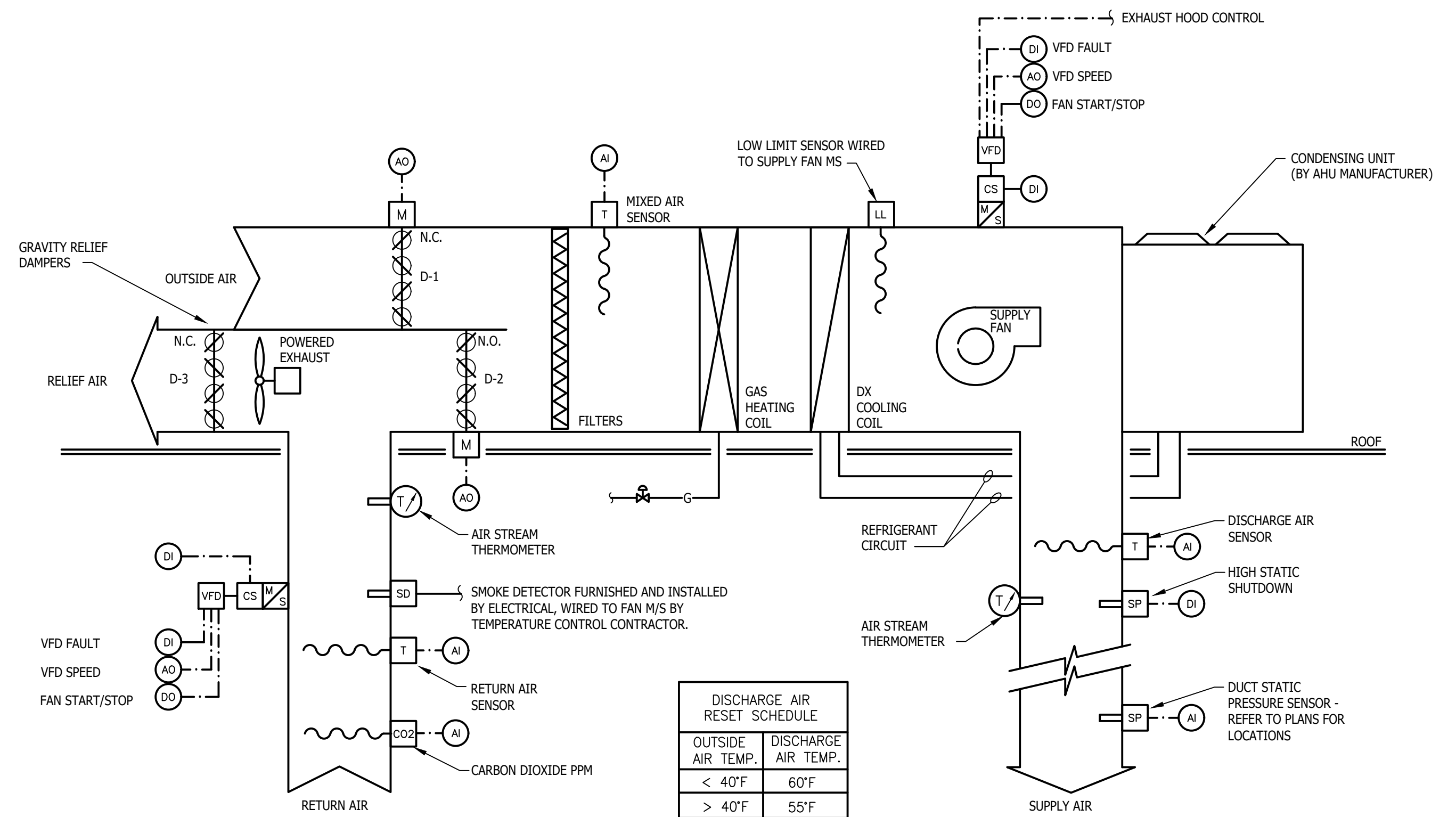
SEQUENCE OF OPERATION:
INDIVIDUAL SPACE TEMPERATURES ARE MAINTAINED BY THE MODULATION OF THE PRIMARY AIR DAMPER. THE ELECTRIC REHEAT IS NORMALLY OFF. CONTROLLER SHALL BE FIELD INSTALLED BY TEMPERATURE CONTROLS CONTRACTOR.

IF SPACE TEMPERATURE RISES ABOVE SETPOINT, THE DAMPER OPENS. IF SPACE TEMPERATURE DECREASES, THE DAMPER CLOSES TO A PRESET MINIMUM AIRFLOW. ON A FURTHER DECREASE IN SPACE TEMPERATURE, THE DAMPER SHALL OPEN TO ACHIEVE THE HEATING AIRFLOW SETPOINT AND THE FIRST STAGE OF REHEAT SHALL BE ENABLED. IF REQUIRED THE SECOND STAGE OF REHEAT SHALL BE ENABLED (IF AVAILABLE).

DURING UNOCCUPIED HOURS THE ELECTRIC REHEAT STAGES SHALL BE ENABLED TO MAINTAIN NIGHT SETBACK TEMPERATURE.

ELECTRIC HEATING COILS SHALL NOT OPERATE WHEN SUFFICIENT AIRFLOW IS NOT PRESENT.

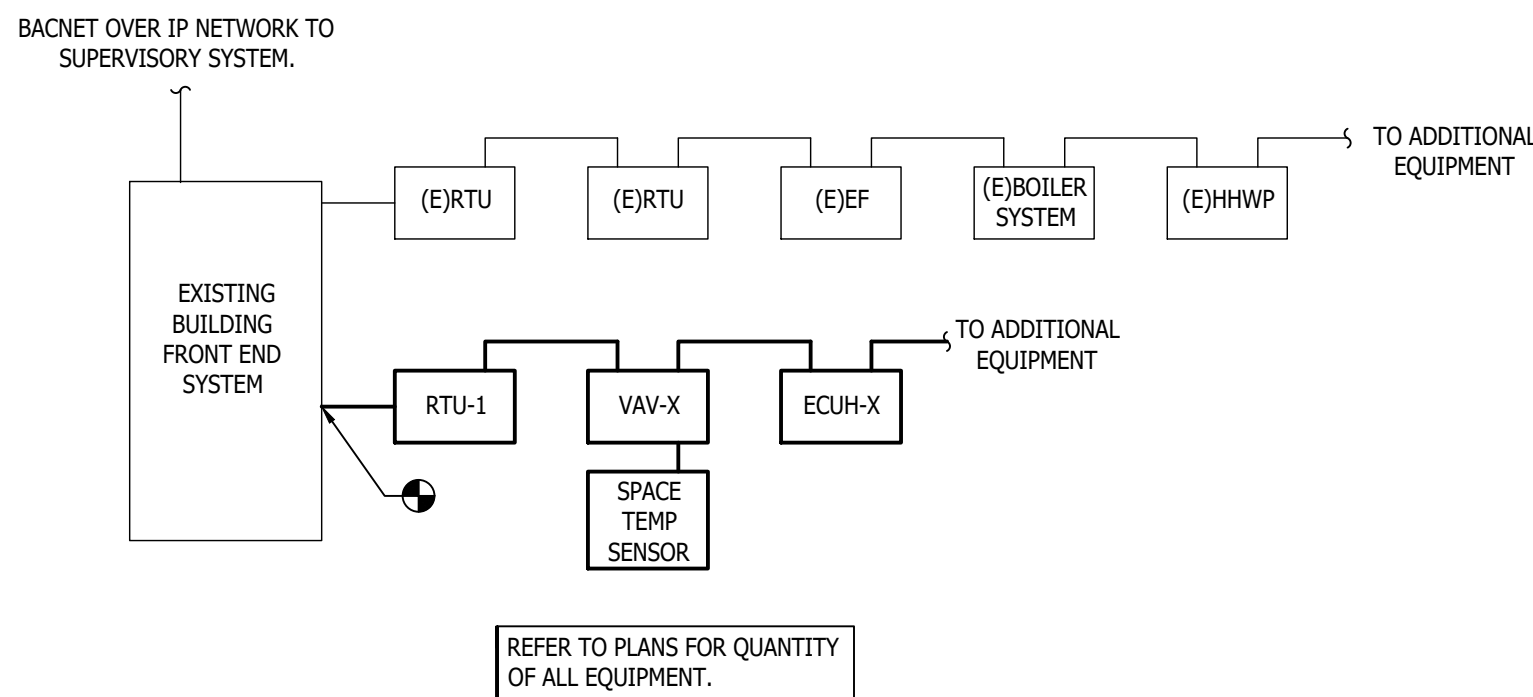
ALL TERMINAL UNITS SHALL BE MONITORED BY THE EXISTING BUILDING ENERGY MANAGEMENT SYSTEM (EMS). EMS SHALL BE ABLE TO READ AIRFLOW AND DISCHARGE AIR TEMPERATURE COORDINATE EXISTING SYSTEM REQUIREMENTS WITH OWNER.



VAV ROOFTOP UNIT CONTROL DIAGRAM
NO SCALE (TYP. OF RTU-1)

VAV ROOFTOP UNIT SEQUENCE OF OPERATIONS:
NOTE: ALL SETPOINTS AND TIME INTERVALS SHALL BE ADJUSTABLE BY THE SYSTEM OPERATOR. UNIT SHALL BE PROVIDED WITH TERMINAL STRIP, CONTROLLER AND CONTROL COMPONENTS BY TEMPERATURE CONTROLS CONTRACTOR. REFRIGERATION SAFETIES BY UNIT MANUFACTURER. ONLY ACCEPTABLE CONTROLS CONTRACTOR IS METRO CONTROLS.

- WITH THE SUPPLY FAN'S VFD HAND/OFF/AUTO SWITCH IN THE "AUTO" POSITION, THE SUPPLY FAN SHALL BE AUTOMATICALLY STARTED AND STOPPED WITH THE DDC SYSTEM OCCUPANCY SCHEDULE. SUPPLY FAN SHALL ALSO BE ENERGIZED WHENEVER THE HOOD EXHAUST FAN IS ALSO ENERGIZED VIA WALL SWITCH OR HEAT SENSOR.
- OCCUPIED MODE: WHEN THE DDC SYSTEM ENERGIZES THE SUPPLY FAN, THE FAN SHALL RUN CONTINUOUSLY. THE RETURN, RELIEF AND RETURN DAMPERS WILL MODULATE TO MAINTAIN MINIMUM OUTSIDE AIRFLOW AS DETERMINED BY THE DDC SYSTEM AND CO2 SENSOR.
- THE DDC SYSTEM SHALL MONITOR THE SPACE CO2 (THROUGH THE RETURN AIR CO2 SENSOR) AND MODULATE THE MIXED AIR DAMPERS TO MAINTAIN A MAXIMUM LEVEL OF 1000 PPM, SUBJECT TO A MIX AIR TEMPERATURE LOW LIMIT TEMPERATURE OF 45°F.
- THE SUPPLY FAN WILL PROVE FLOW TO THE DDC SYSTEM WITH ITS CURRENT SENSING SWITCH. IF THE FAN FAILS, THE SYSTEM WILL BE DE-ENERGIZED AND AN ALARM WILL BE SENT TO THE DDC SYSTEM.
- THE SUPPLY FAN VSD SHALL BE MODULATED BY THE REMOTE SUPPLY DUCT STATIC PRESSURE SENSOR TO MAINTAIN A CONSTANT STATIC PRESSURE SETPOINT THAT IS DETERMINED BY THE TEST AND BALANCE AGENCY. IF A CONTROL SIGNAL IS LOST, THE FAN'S VFD WILL OPERATE AT 50% AND AN ALARM WILL BE SENT TO THE DDC SYSTEM.
- THE DISCHARGE HIGH STATIC PRESSURE SENSOR (LOCATED AT THE RTU) SHALL MODULATE THE SUPPLY FAN VFD TO PREVENT THE DISCHARGE STATIC PRESSURE FROM EXCEEDING THE HIGH LIMIT SETPOINT OF 4.0" W.G. IF THE DISCHARGE HIGH STATIC PRESSURE SENSOR REACHES 5.0" W.G., THE SUPPLY FAN SHALL BE DE-ENERGIZED.
- THE DISCHARGE AIR TEMPERATURE SENSOR SHALL MODULATE THE DX STAGES OF COOLING, MIXED AIR DAMPERS (D-1, D-2, D-3), AND THE STAGES OF AS HEAT TO MAINTAIN THE DISCHARGE AIR TEMPERATURE.
- THE POWERED EXHAUST FAN SHALL BE ENERGIZED WHENEVER THE SPACE STATIC PRESSURE IS OVER 0.1" w.c. THE EXHAUST FAN'S VSD SHALL MODULATE THE FAN TO MAINTAIN A MAXIMUM PRESSURIZATION OF 0.1" w.c.
- ECONOMIZER MODE: WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE, DDC SHALL MODULATE THE MIXED AIR DAMPERS (D-1, D-2, D-3) AND DX STAGES OF COOLING TO MAINTAIN THE DISCHARGE AIR TEMPERATURE WHILE MAINTAINING THE MINIMUM OUTSIDE AIRFLOW. WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN THE RETURN AIR TEMPERATURE, DDC SHALL MODULATE THE MIXED AIR DAMPERS TO MAINTAIN THE MINIMUM OUTSIDE AIRFLOW.
- UNOCCUPIED MODE: IF ANY OF THE SPACE TEMPERATURE SENSORS DROPS BELOW 60°F, THE SUPPLY AND RETURN FANS SHALL BE ENERGIZED. THE OUTSIDE AND RELIEF DAMPERS SHALL REMAIN CLOSED. THE RETURN DAMPER SHALL BE FULLY OPENED AND STAGES OF GAS HEAT SHALL FIRE. THE SUPPLY/RETURN FAN OFFSET SHALL BE ZERO DURING UNOCCUPIED OPERATION. AFTER ALL OF THE SPACES HAVE REACHED 63°F (ADD), THE UNIT SHALL BE DE-ENERGIZED.
- IF THE FREEZE-STAT SETPOINT IS REACHED (33°F OR BELOW), THEN THE SUPPLY AND RETURN FANS SHALL BE DE-ENERGIZED. IF THE DUCT MOUNTED SMOKE DETECTORS DETECT SMOKE, THEN THE SUPPLY AND RETURN FANS SHALL BE DE-ENERGIZED.
- WHEN THE SUPPLY FAN IS DE-ENERGIZED, THE OUTSIDE AND RELIEF DAMPERS SHALL BE CLOSED. THE RETURN AIR DAMPER SHALL BE OPEN.
- POINTS THAT SHALL BE GRAPHICALLY SHOWN: FAN STATUS, DUCT PRESSURE, DUCT PRESSURE SETPOINT, DISCHARGE AIR TEMPERATURE, DISCHARGE AIR TEMPERATURE SETPOINT, COOLING STAGES, HEATING HOT WATER CONTROL VALVE POSITION.
- CO2 CONTROL: THE SPACE CO2 SENSOR WILL SUPPLY A PPM READING TO THE UNIT CONTROLLER. THE UNIT CONTROLLER WILL OPEN THE OA DAMPER TO PROVIDE MORE VENTILATION AIR AS REQUIRED TO MAINTAIN A DEADBAND OF 700 PPM(ADD.).



BUILDING AUTOMATION SYSTEM RISER DIAGRAM
NO SCALE

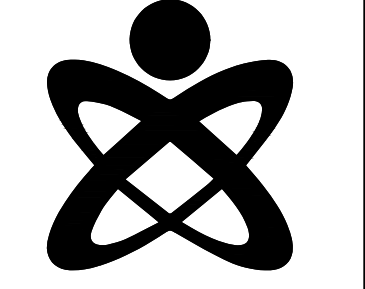
BUILDING AUTOMATION SYSTEM NOTES:

- CONFIGURATION AND ORDER OF CONTROLLER CONNECTION IS FOR REPRESENTATION PURPOSES ONLY. UPDATE CONTROL SYSTEM DRAWINGS TO REFLECT ACTUAL AS-BUILT CONDITIONS, INCLUDING ORDER IN WHICH CONTROLLERS ARE CONNECTED WITHIN THE NETWORK.

BUILDING AUTOMATION SYSTEM FRONT END SYSTEM REQUIREMENTS

- INTEGRATE MECHANICAL EQUIPMENT INTO THE EXISTING AUTOMATED LOGIC SUPERVISORY SYSTEM, INCLUDING GRAPHICS. EACH UNIT SHALL DISPLAY PERTINENT INFORMATION FOR CONTROL AND TROUBLE SHOOTING, INCLUDING:
 - SPACE TEMPERATURE
 - SPACE TEMPERATURE SETPOINT
 - UNIT STATUS
 - HIGH AND LOW REFRIGERANT PRESSURE ALARMS
 - HEATING HOT WATER VALVE COMMAND
 - OCCUPIED/UNOCCUPIED COMMAND
 - MODE OF OPERATION

THE ONLY ACCEPTABLE CONTROLS CONTRACTOR IS METRO CONTROLS.



PRELIMINARY
DESIGN DEVELOPMENT
CONSTRUCTION
FINAL RECORD

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CHECKED BY: D.J.L.

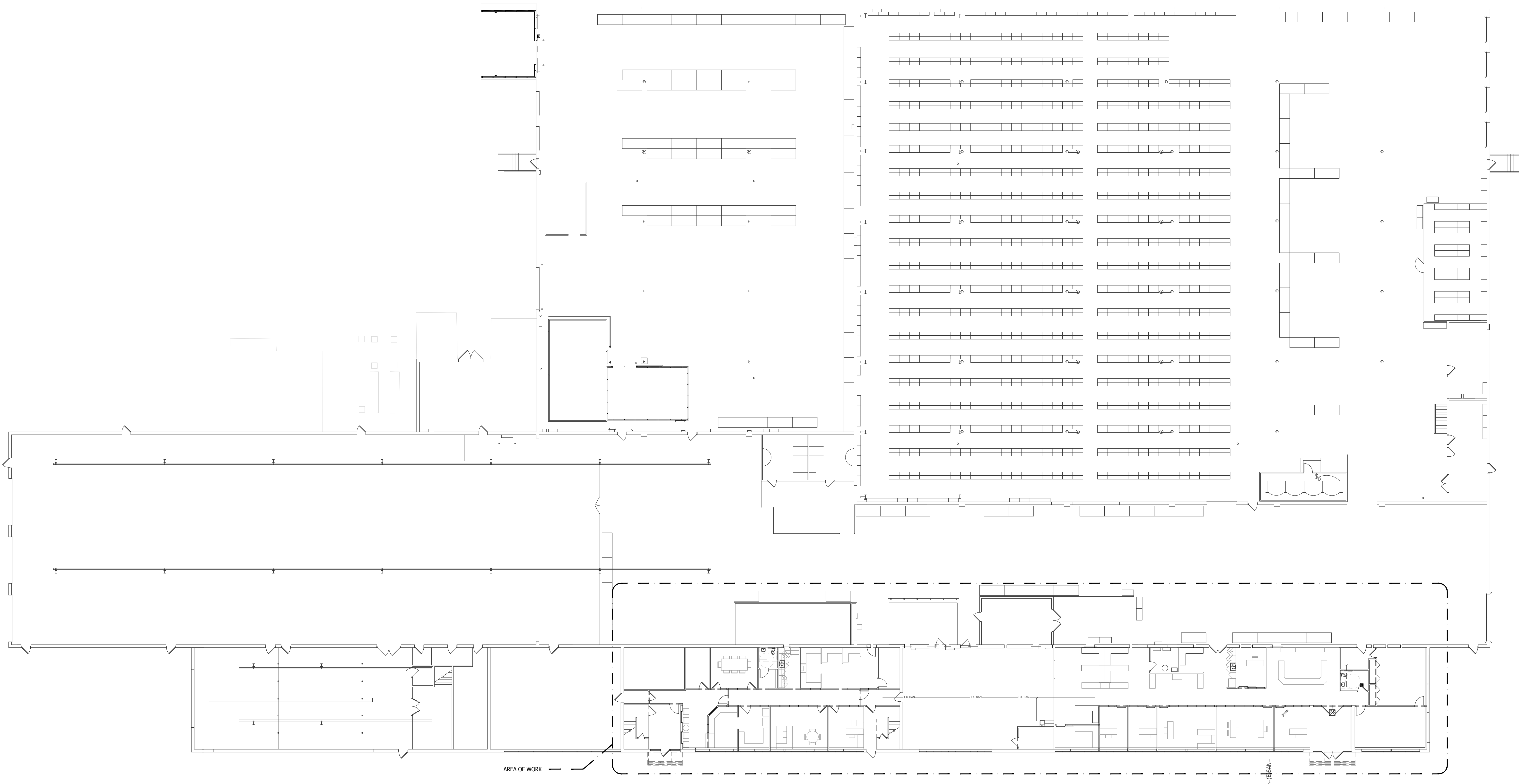
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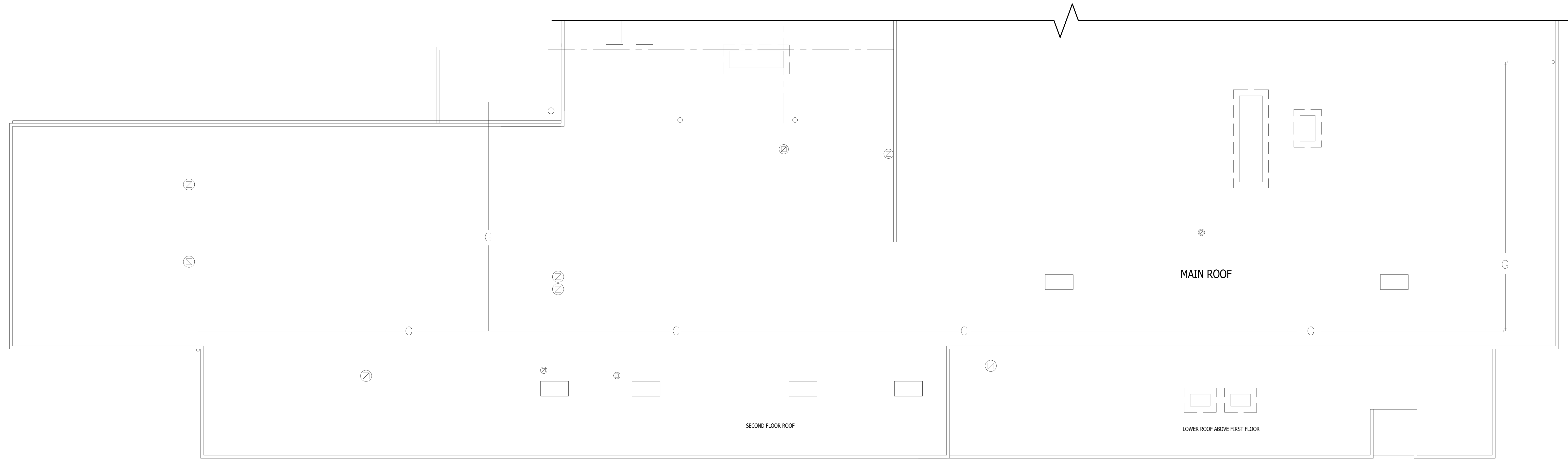
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JOB NO. 242053





ELECTRICAL COMPOSITE FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"



ELECTRICAL SECOND FLOOR / ROOF PLAN
SCALE: 1/16" = 1'-0"

GENERAL DEMOLITION NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

POWER GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED, PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BUILDINGS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILL NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" CONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
H	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.
J	ALL PA AND SPEAKER SCOPE BY OTHERS. REFER TO TECH DRAWINGS FOR FURTHER INFORMATION.

WA

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SYSTEMS ENGINEERING**
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MT. CLEMENS, MI 48043
UBS PROJECT 007.24.09

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

ELECTRICAL POWER
COMPOSITE FIRST AND
SECOND FLOOR PLANS

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY TJO
CHECKED BY DJL

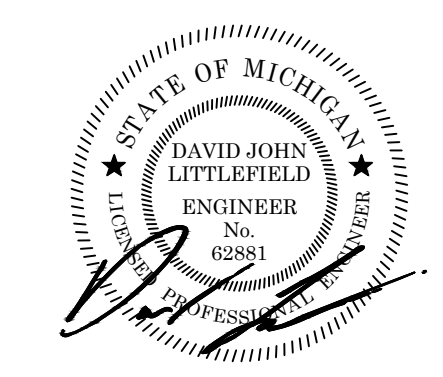
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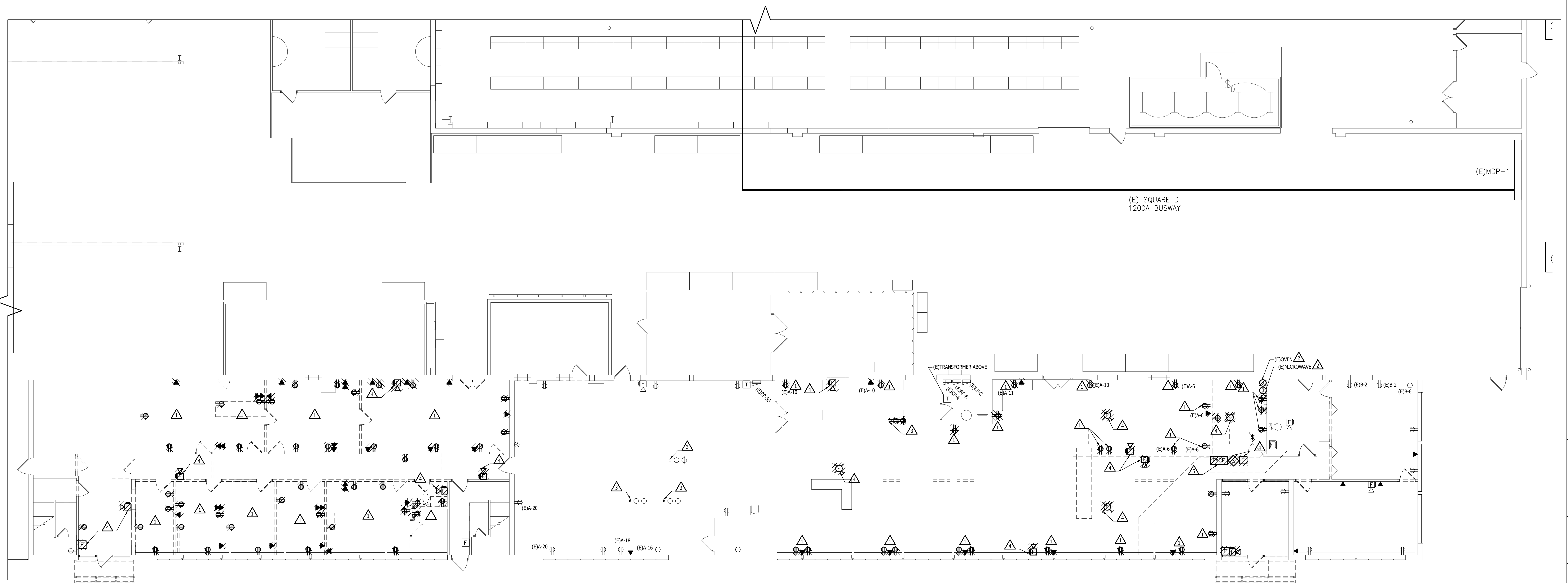
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JOB NO. **242053**



GENERAL DEMOLITION NOTES	
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B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGARS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD. INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

DEMOLITION KEYED NOTES	
1	DEMO ALL RECEPTACLES, RACEWAYS, AND DATA OUTLETS IN ROOM COMPLETE BACK TO SOURCE. REMOVE CONDUIT AND WIRING COMPLETE. RETAIN BREAKER AS SPARE. UPDATE PANEL SCHEDULE.
2	KITCHEN EQUIPMENT BEING REMOVED COMPLETE. REMOVE CONDUIT AND WIRING COMPLETE. RETAIN BREAKER AS SPARE. UPDATE PANEL SCHEDULE.
3	POWER POLE TO BE SUPPORTED IN PLACE PRIOR TO REMOVAL OF THE CEILING. PROTECT POWER POLE AND ALL ASSOCIATED WIRING.
4	FIRE ALARM DEVICE TO BE REMOVED COMPLETE. TAKE CONDUIT AND WIRING BACK TO SOURCE.
5	RELOCATE EXISTING FIRE ALARM CONTROL PANEL TO NEW LOCATION SHOWN ON NEW WORK PLAN. CAPTURE EXISTING WIRING/CONDUIT AND EXTEND TO NEW LOCATION AS REQUIRED.



ELECTRICAL POWER DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

ELECTRICAL POWER
DEMOLITION FIRST FLOOR
PLAN

PRELIMINARY
DESIGN DEVELOPMENT
CONSTRUCTION
FINAL RECORD

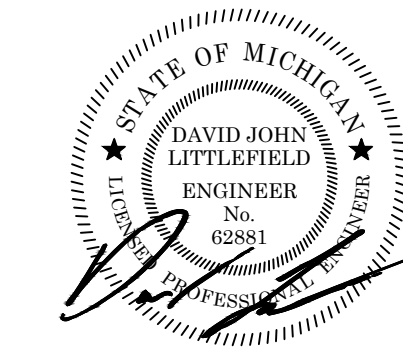
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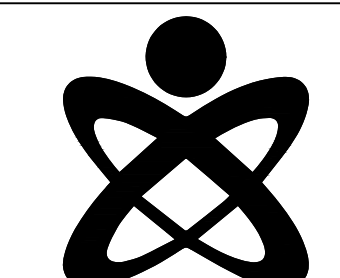
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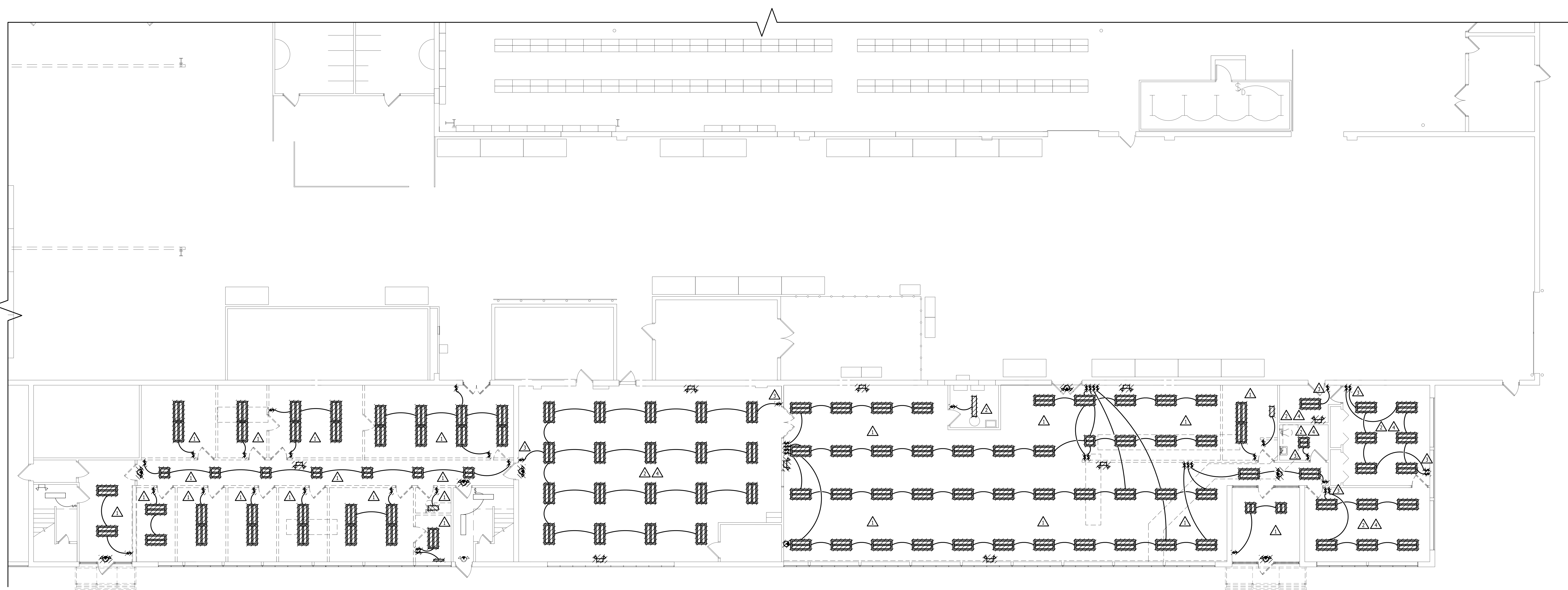
JOB NO.
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DEMOLITION KEYED NOTES	
1	LIGHT FIXTURES, ASSOCIATED CONTROLS, EXIT SIGNS, AND FBUS SHALL BE REMOVED COMPLETE BACK TO SOURCE INCLUDING ALL CONDUIT AND WIRING.
2	LIGHT FIXTURES TO BE REMOVED COMPLETE. REMOVE CONDUIT AND WIRING COMPLETE BACK TO JUNCTION BOX FEEDING THIS AREA. PREPARE FOR CONNECTION TO NEW LIGHTING FROM JUNCTION BOX AS INDICATED ON NEW WORK PLANS.
3	SWITCHES AND LIGHTING CONTROLS TO BE REMOVED COMPLETE. PATCH AND PAINT AS REQUIRED.
4	AFTER REMOVAL OF CEILING IN THIS AREA, CONTRACTOR SHALL REMOVE ALL CONDUIT AND LOOSE WIRING NOT BEING USED COMPLETE. ANY EXISTING CONDUIT, LIVE CIRCUITS, AND LOW VOLTAGE WIRING TO REMAIN SHALL BE SUPPORTED TO MEET CODE.



ELECTRICAL LIGHTING DEMOLITION FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

ELECTRICAL LIGHTING
DEMOLITION FIRST FLOOR
PLAN

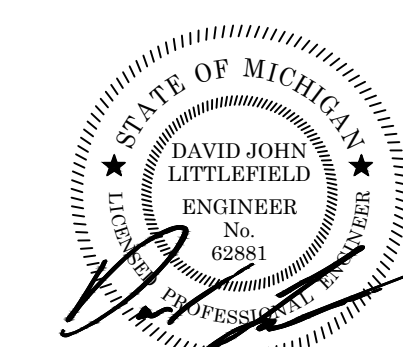
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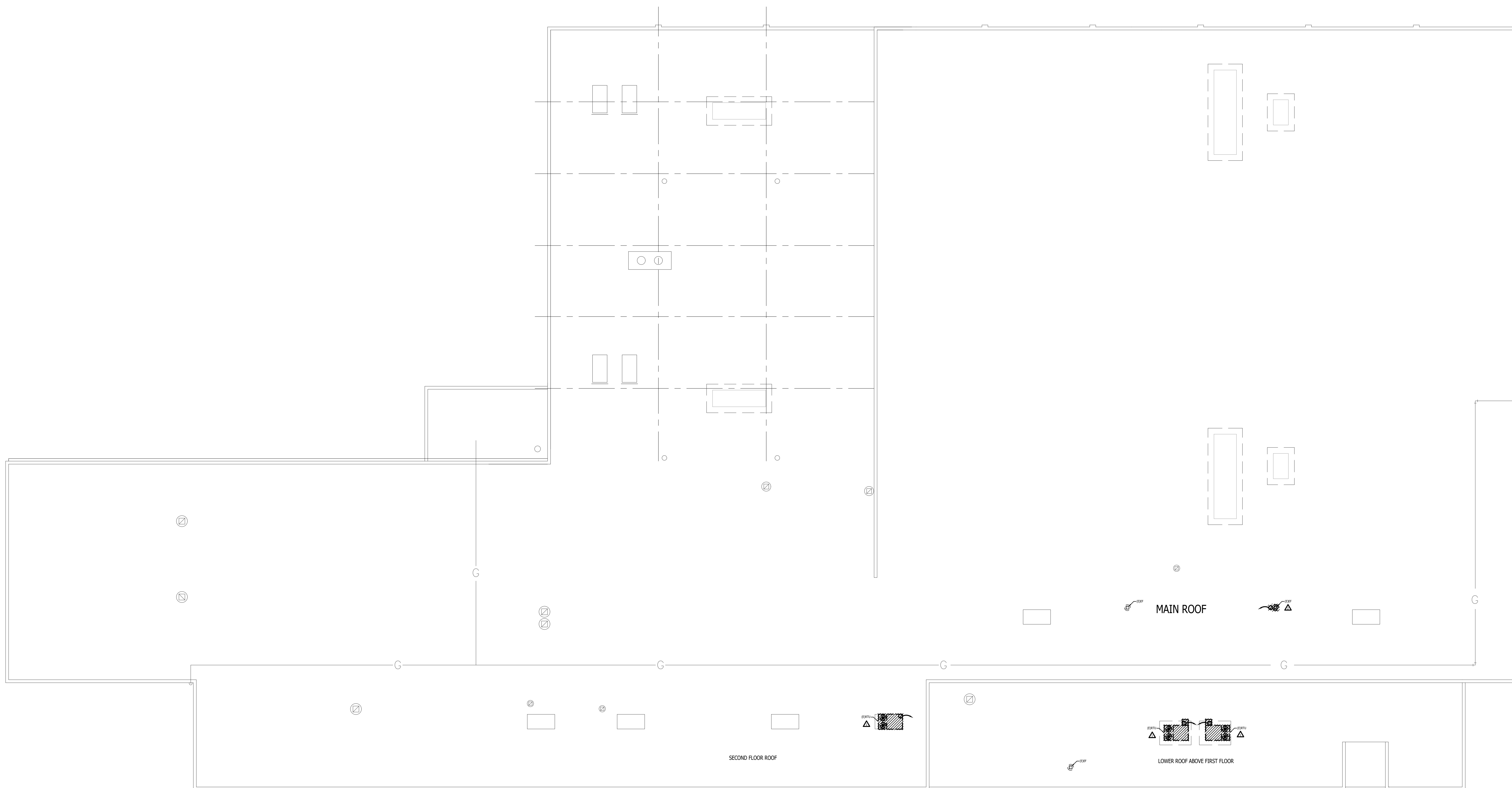
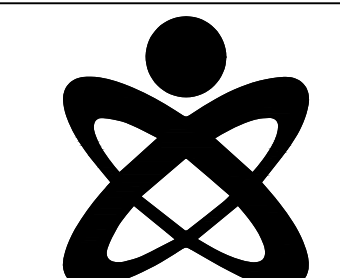
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JOB NO.
242053





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H	ALL EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.

DEMOLITION KEYED NOTES	
1	PACKAGED ROOF TOP UNIT BEING REMOVED COMPLETE BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE COMPLETE BACK TO SOURCE INCLUDING CONDUIT AND WIRING. RETAIN BREAKER AS SPARE, UPDATE PANEL SCHEDULE.
2	EXHAUST FAN BEING REMOVED COMPLETE BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR TO DISCONNECT AND REMOVE COMPLETE BACK TO SOURCE INCLUDING CONDUIT AND WIRING. RETAIN BREAKER AS SPARE, UPDATE PANEL SCHEDULE.

ELECTRICAL POWER DEMOLITION ROOF PLAN
SCALE: 1/16" = 1'-0"

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

ELECTRICAL POWER
DEMOLITION ROOF PLAN

PRELIMINARY
DESIGN DEVELOPMENT
CONSTRUCTION
FINAL RECORD

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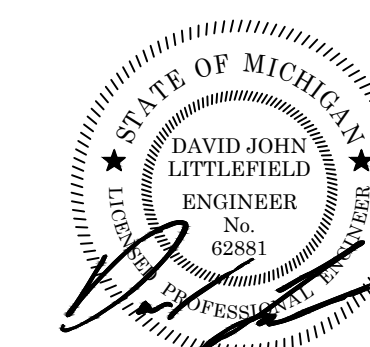
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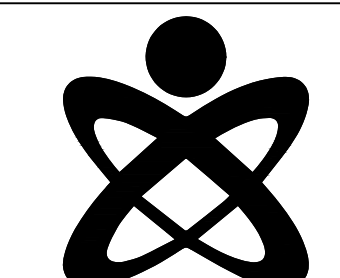
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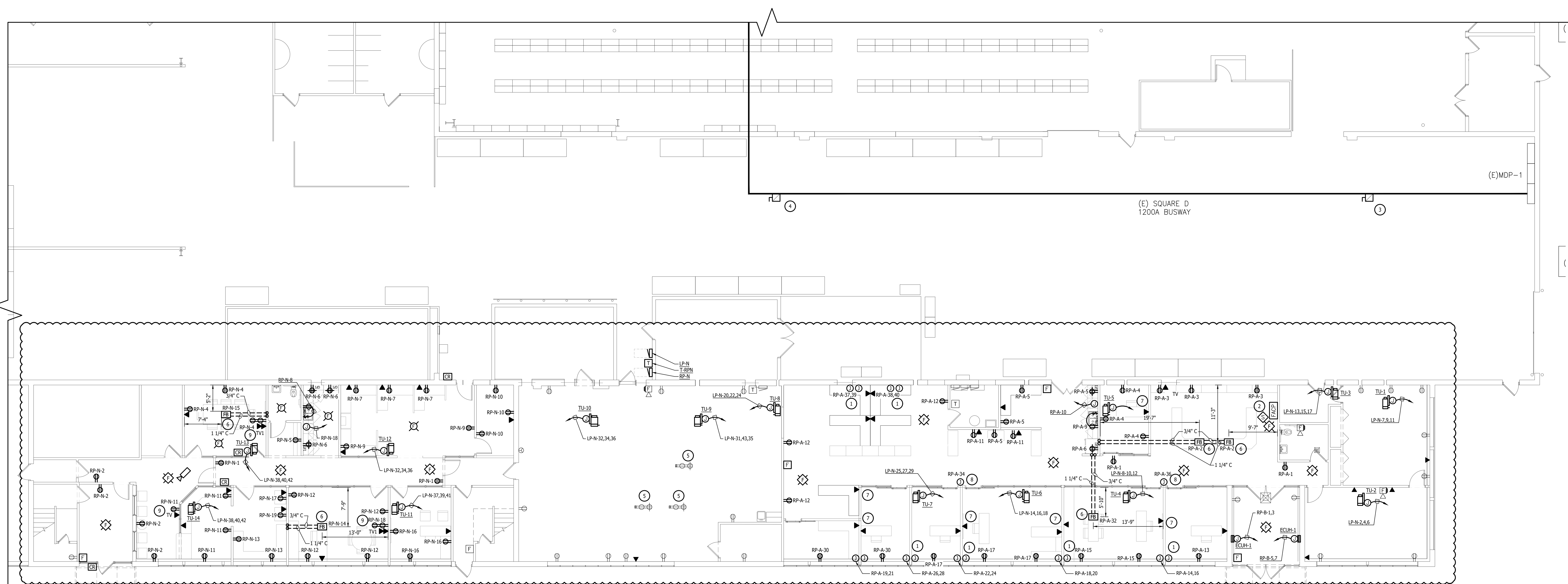
JOB NO. 242053





NEW WORK KEYED NOTES	
1	NEW JUNCTION BOX (1) FOR POWER AND (1) FOR DATA. VERIFY EXACT LOCATION WITH FURNITURE PLANS PRIOR TO ROUGH IN.
2	RELOCATED FIRE ALARM CONTROL PANEL.
3	PROVIDE NEW BUS PLUG FOR RTU-1
4	PROVIDE NEW BUS PLUG FOR PANEL LP-N
5	RE-SUPPORT POWER POLE AFTER INSTALLATION OF NEW GRID CEILING
6	INSTALL NEW DOUBLE GANG COMBINATION FLOOR BOX WITH (1) DUPLEX RECEPTACLE AND (1) DATA PORT (LEGAND: ORINBOX OR SIMILAR) IN EXISTING FLOOR. COORDINATE EXACT LOCATION WITH FURNITURE PLANS. NEW WIRING AND CONDUIT IN FLOOR. REFER TO ARCHITECTURAL FOR SAW CUTTING. PROVIDE 20A OUTLET.
7	DATA ON DEMOUNTABLE WALL SHALL BE ROUTED FROM THE DATA JUNCTION BOX TO BE INSTALLED ON SOUTH GYPSUM WALL THROUGH BUILT-IN RACEWAY AND TERMINATED IN MODULAR DATA OUTLETS. BUILT-IN RACEWAY IS PART OF THE MODULAR DEMOUNTABLE WALL.
8	JUNCTION BOX FOR TV POWER. TV SHALL BE MOUNTED ON DEMOUNTABLE WALL. POWER SHALL BE ROUTED THROUGH BUILT-IN RACEWAY. BUILT-IN RACEWAY IS PART OF THE MODULAR DEMOUNTABLE WALL.
9	REFER TO DETAILS SHEET FOR ROUGH IN DETAILS FOR TV AND TV-1. COORDINATE EXACT HEIGHT IN THE FIELD PRIOR TO ROUGH IN.

POWER GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" CONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
H	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.
J	ALL PA AND SPEAKER SCOPE BY OTHERS. REFER TO TECH DRAWINGS FOR FURTHER INFORMATION.



ELECTRICAL POWER NEW WORK FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING

ELECTRICAL POWER NEW WORK FIRST FLOOR PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

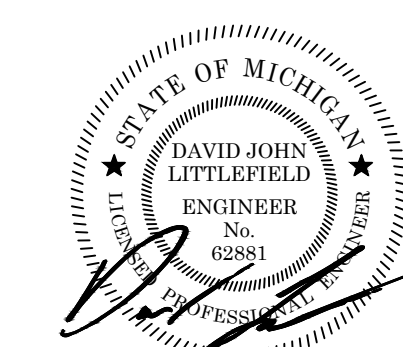
DRAWN BY TJO
CHECKED BY DJL

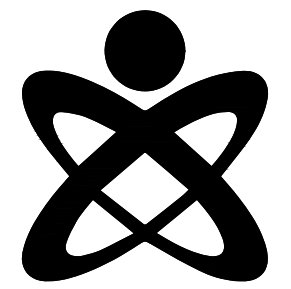
REVISIONS
ADDENDUM No. 1 11/2/2024

DATE: OCTOBER 31, 2024
SHEET NO.

EP1.10

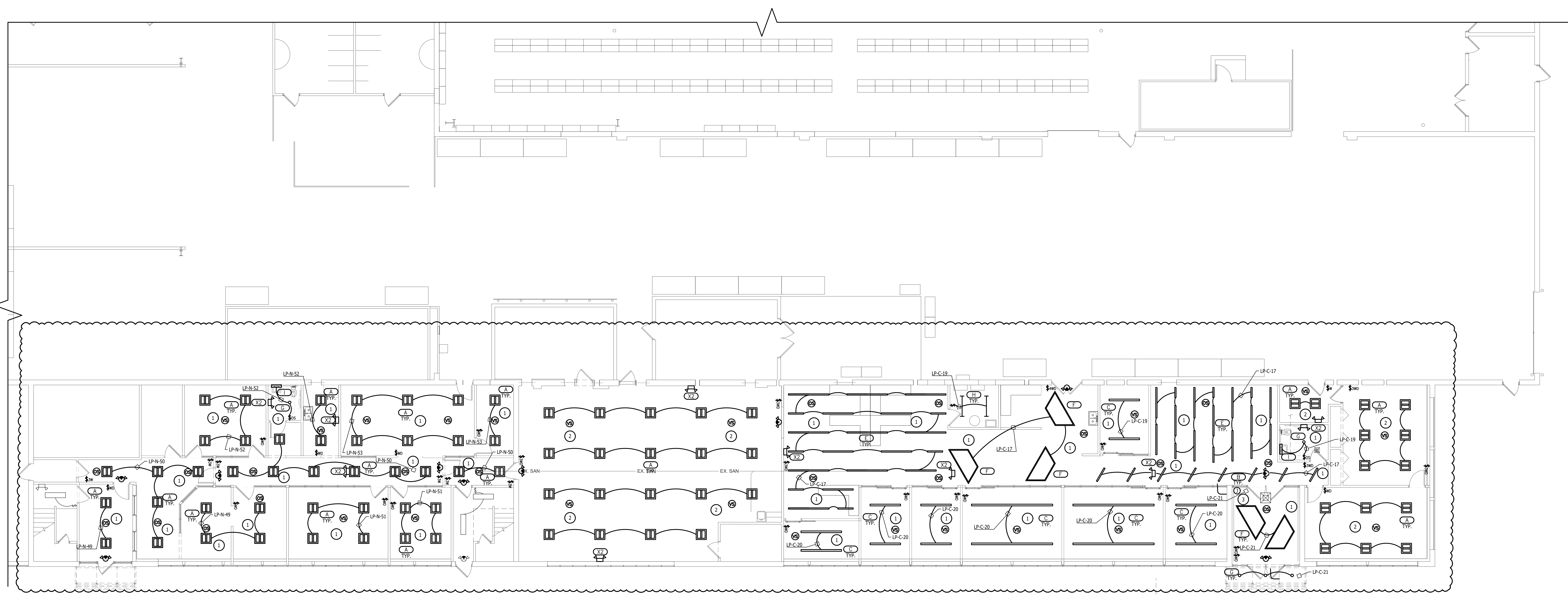
JOB NO. 242053





LIGHTING GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE DETERMINED BY THE NEW WORK.
B	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING'S OPERATION.
C	PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS, SYSTEMS, AND UTILITIES. NOTIFY DESIGN PROFESSIONAL OF ANY INTERFERENCES OR DISCREPANCIES.
D	ALL ITEMS INDICATED WITH CROSS-HATCHING SHALL BE REMOVED COMPLETELY WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, INSULATION, CONTROLS, ETC. CAP ALL OPEN-ENDED PIPES AND DUCTS.
E	THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED. ALL ITEMS REMOVED SHALL BE LEGALLY DISPOSED OF. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING RELOCATED AND OWNER-PROVIDED EQUIPMENT.
F	VERIFY DEPTH, SIZE, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION PRIOR TO STARTING ANY WORK.
G	ALL ITEMS ON DEMOLITION PLAN SHALL BE CONSIDERED EXISTING UNLESS OTHERWISE NOTED. ALL WORK INDICATED ON PLANS HAS BEEN LOCATED PER EXISTING DRAWINGS AND/OR FIELD OBSERVATION AND REQUIRES FIELD VERIFICATION.
H	ALL EXISTING PIPE TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WHERE DUCT WORK PIPE INSULATION HAS BEEN DAMAGED DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR INSULATION AS REQUIRED TO MATCH EXISTING.
J	ALL SWITCHES SHALL BE WHITE WITH BRUSHED SILVER COVERPLATE.

NEW WORK KEYED NOTES	
1	NEW LED FIXTURES. PROVIDE NEW CONTROL SENSORS AND SWITCHING AS SHOWN. PROVIDE NEW WIRELESS LIGHTING CONTROL SYSTEM. PROVIDE ALL PROGRAMMING AS REQUIRED FOR A COMPLETE SYSTEM.
2	NEW LED FIXTURES TO REPLACE EXISTING FIXTURES. PROVIDE NEW CONTROL SENSORS AND SWITCHING AS SHOWN. CONNECT TO EXISTING CIRCUIT AVAILABLE AS A RESULT OF DEMOLITION IN THIS AREA. ALL WIRING AND CONDUIT SHALL BE NEW. RE-USE EXISTING SWITCH LOCATIONS FOR NEW SWITCHES. PROVIDE NEW WIRELESS LIGHTING CONTROL SYSTEM. PROVIDE ALL PROGRAMMING AS REQUIRED FOR A COMPLETE SYSTEM.
3	JUNCTION BOX FOR BACK LIT SIGN. COORDINATE EXACT ROUGH IN LOCATIONS WITH SIGN MANUFACTURE PRIOR TO INSTALLATION. VERIFY SIGN VOLTAGE PRIOR TO TERMINATION.



ELECTRICAL LIGHTING NEW WORK FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

**MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING**

ELECTRICAL LIGHTING NEW WORK FIRST FLOOR PLAN

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

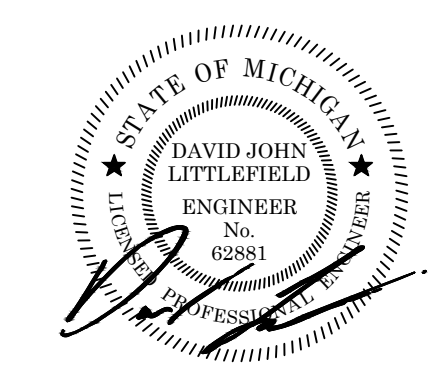
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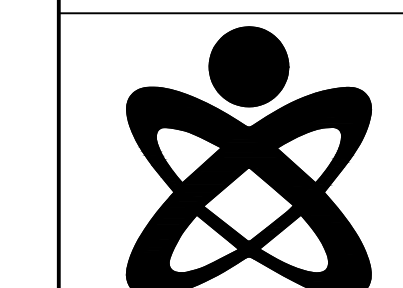
REVISIONS
ADDENDUM No. 1 11/2/2024

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SHEET NO.

EL1.10

JOB NO. 242053





POWER GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL EXTENT OF THE WORK TO BE PERFORMED. PROVIDE AND EXECUTE ALL HVAC SYSTEMS PER ENGINEER'S SPECIFICATION, AND LOCAL APPLICABLE CODES INCLUDING AMENDMENTS, BULLETINS, ETC. AS WELL AS THE STANDARDS OF INSTALLATION AND EQUIPMENT ESTABLISHED FOR THE BUILDINGS, AND REQUIREMENTS OF THE OWNER.
B	EXCEPT FOR CHANGES AS MAY BE SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD IN ACCORDANCE WITH ALTERNATES OF OPTIONS AS STATED HEREINAFTER, ALL WORK MUST BE IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SYSTEMS ARE TO BE COMPLETE, EFFICIENT, AND SATISFACTORY OPERATION WHEN PROJECT IS DELIVERED TO THE OWNER.
D	CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM GOVERNING AUTHORITIES AND FILE NECESSARY FORMS, PAY ALL INSPECTION FEES.
E	ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE AND APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
F	ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
G	WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE 3/4" CONDUIT MINIMUM. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
H	NEW WIRES SHALL BE TYPE THHN. MINIMUM SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO EQUIPMENT, FURNISHED AND INSTALLED BY OTHERS, SHALL BE PROVIDED BY THIS CONTRACTOR.
J	ALL PA AND SPEAKER SCOPE BY OTHERS. REFER TO TECH DRAWINGS FOR FURTHER INFORMATION.

NEW WORK KEYED NOTES	
1	NEW PACKAGED ROOF TOP UNIT INSTALLED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL ELECTRICAL CONNECTIONS TO EXISTING BUSWAY USING NEW CONDUIT AND WIRING. PROVIDE DUCT SMOKE DETECTORS FOR RTU. PROVIDE NEW GFCI SERVICE RECEPTACLE WITH WHILE IN USE COVER.
2	NEW EXHAUST FAN INSTALLED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL ELECTRICAL CONNECTIONS USING NEW CONDUIT AND WIRING.
3	ALL FEEDERS TO MECHANICAL EQUIPMENT ON ROOF SHALL BE RUN ABOVE CEILING AND STUB UP TO DISCONNECT. NO CONDUIT TO BE RUN EXPOSED ON THE ROOF.

ELECTRICAL POWER NEW WORK ROOF PLAN
SCALE: 1/16" = 1'-0"

ELECTRICAL POWER NEW WORK ROOF PLAN

PRELIMINARY
 DESIGN DEVELOPMENT
 CONSTRUCTION
 FINAL RECORD

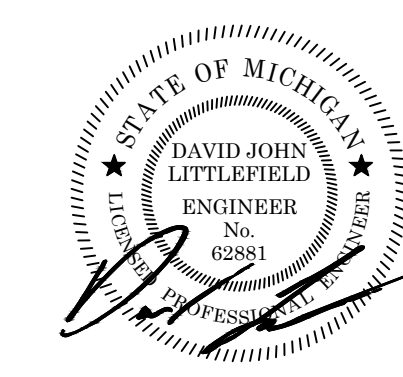
DRAWN BY: TJO
 CHECKED BY: DJL

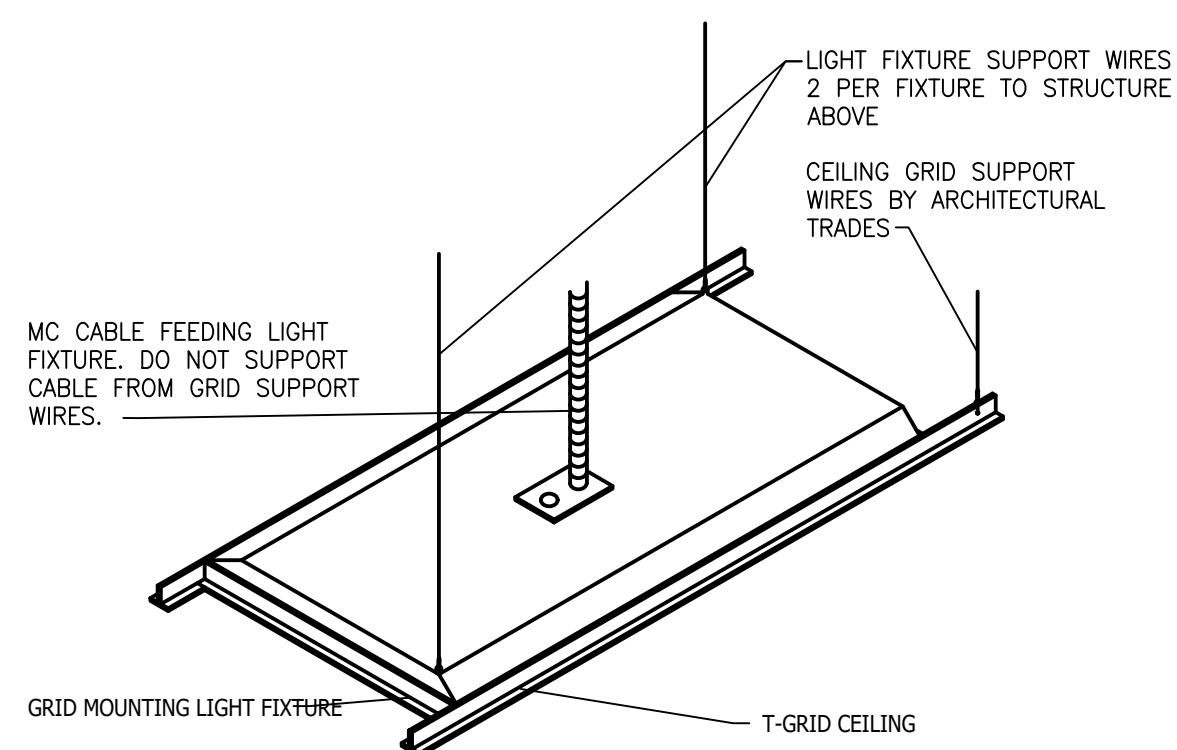
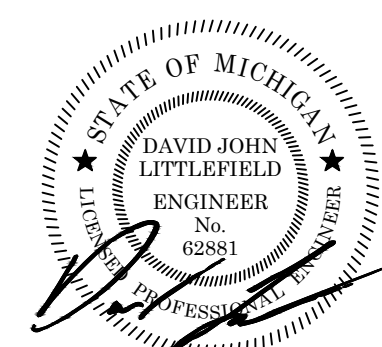
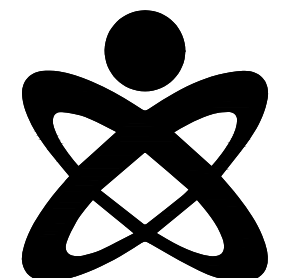
REVISIONS
 ADDENDUM No. 1 11/7/2024

DATE: OCTOBER 31, 2024
 SHEET NO.

E2.10

JOB NO. 242053

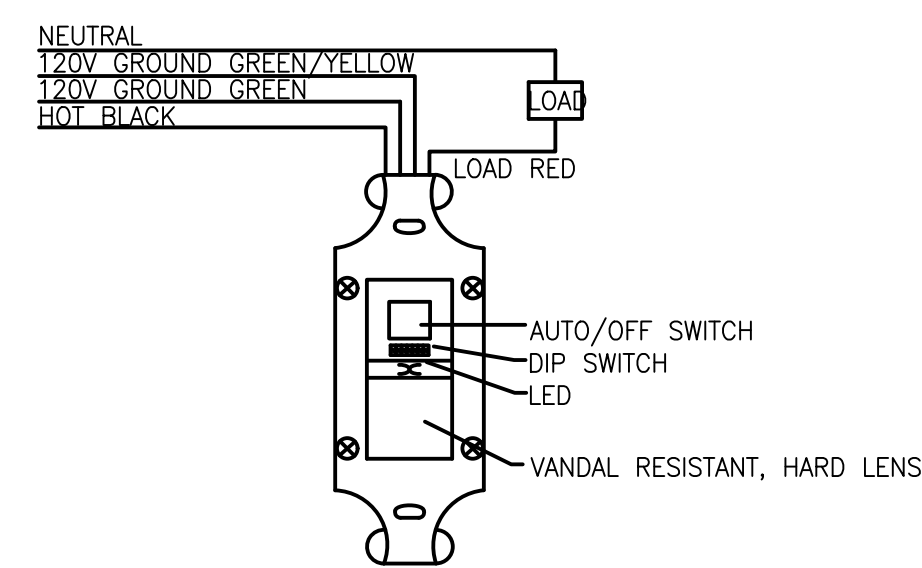




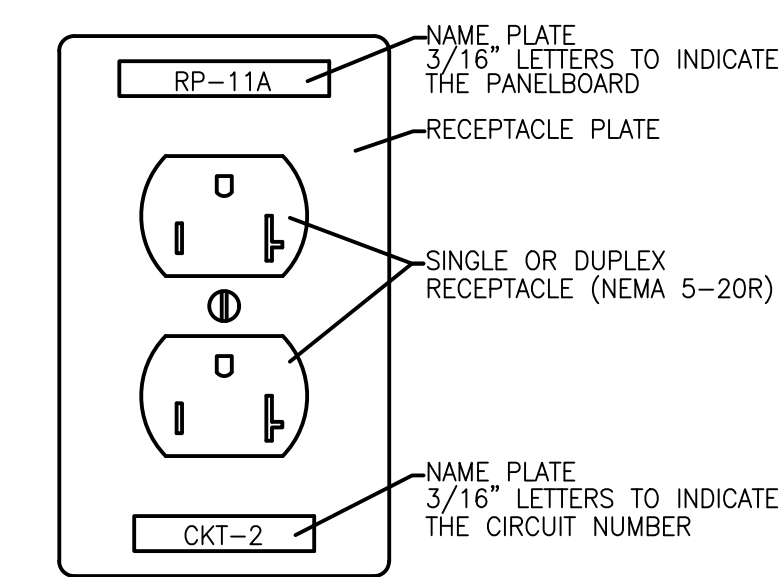
T-GRID FIXTURE MOUNTING DETAIL
NO SCALE

ELECTRICAL FIXTURES

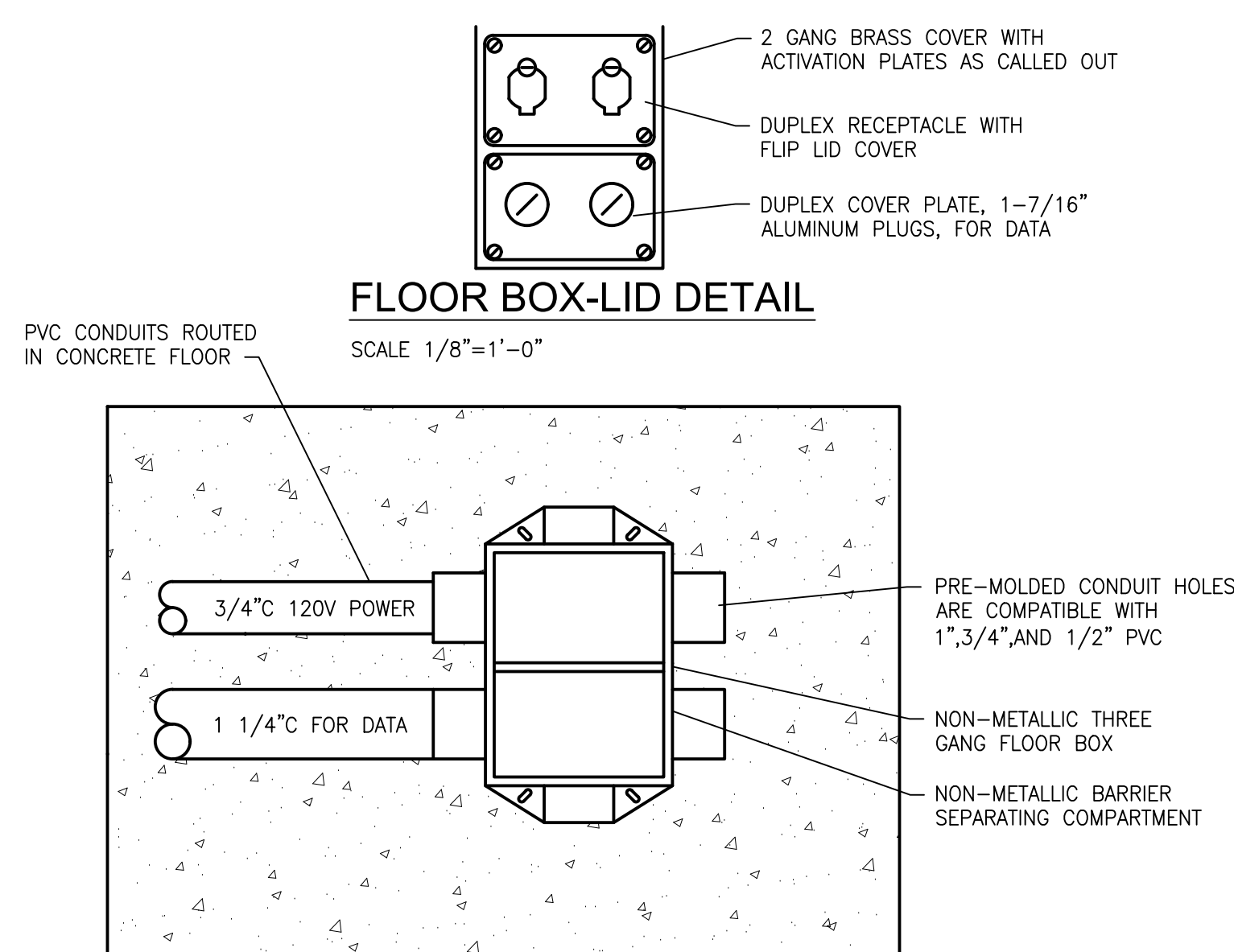
- PENDANT MOUNTED FIXTURES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE USING A 9 GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
- TANDEM FIXTURES MAY UTILIZE COMMON WIRES.



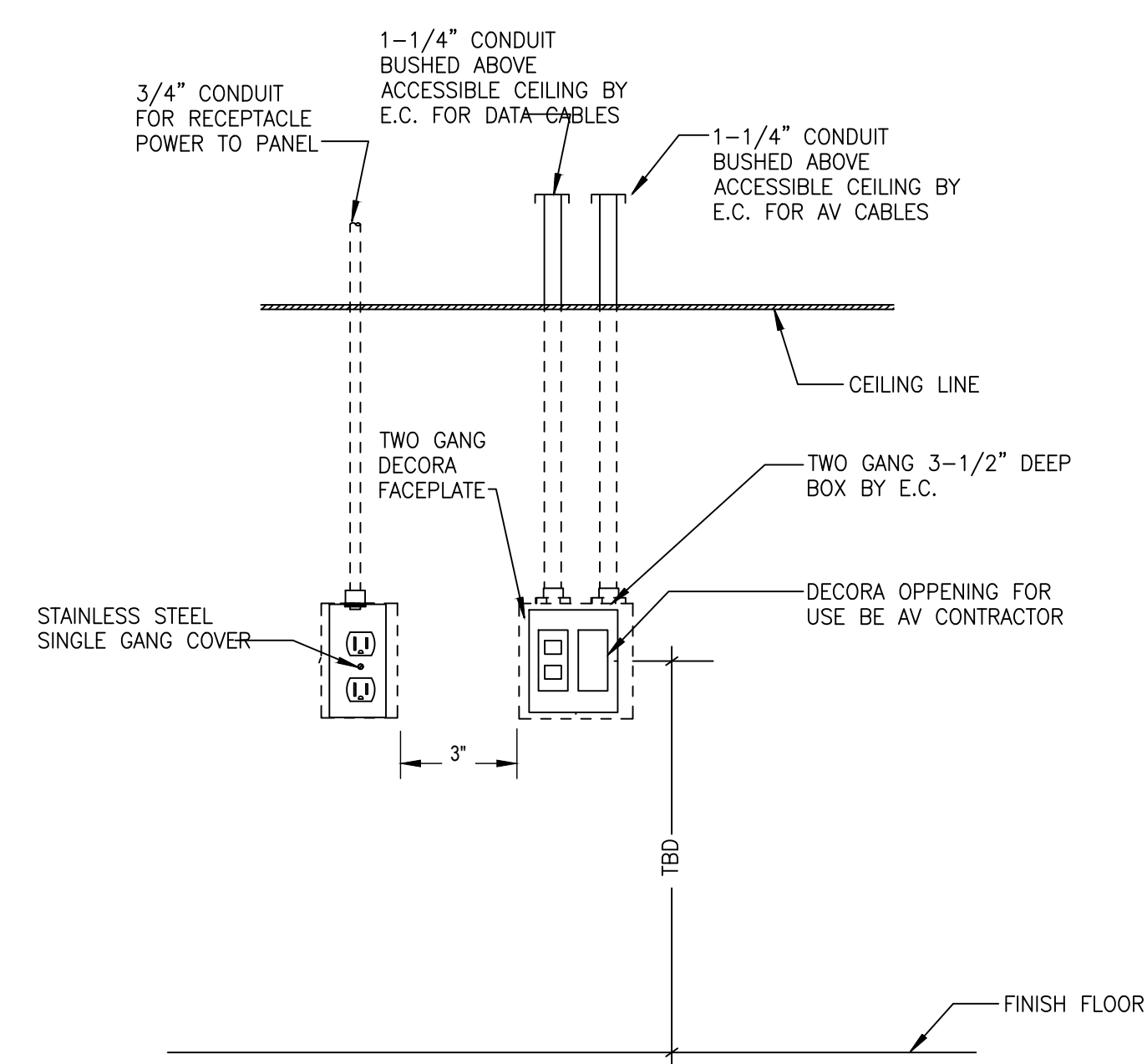
OFFICE OCCUPANCY SENSOR SCHEMATIC
NO SCALE



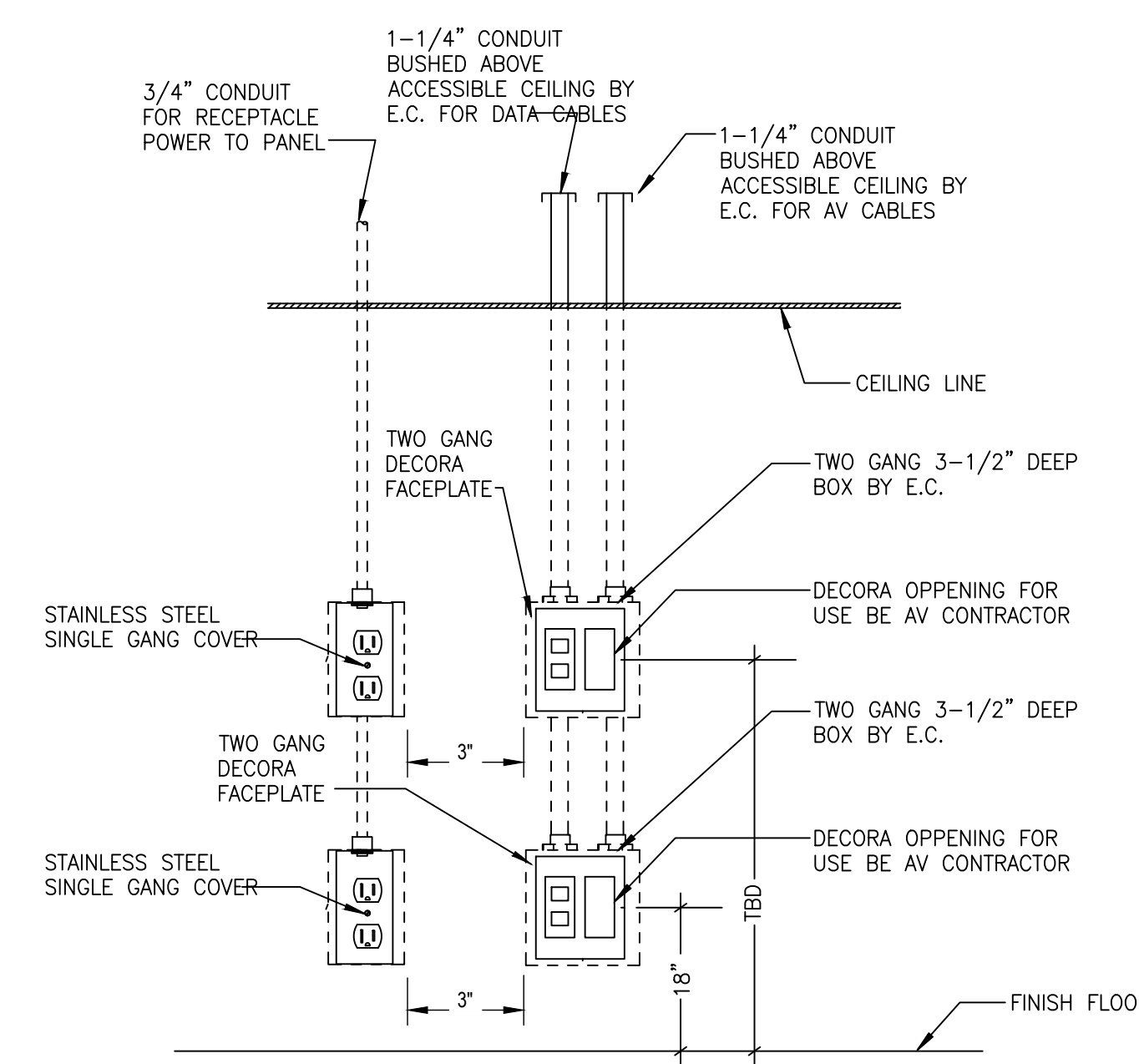
DETAIL OF BRANCH CIRCUIT NUMBER ON RECEPTACLE PLATE
NO SCALE



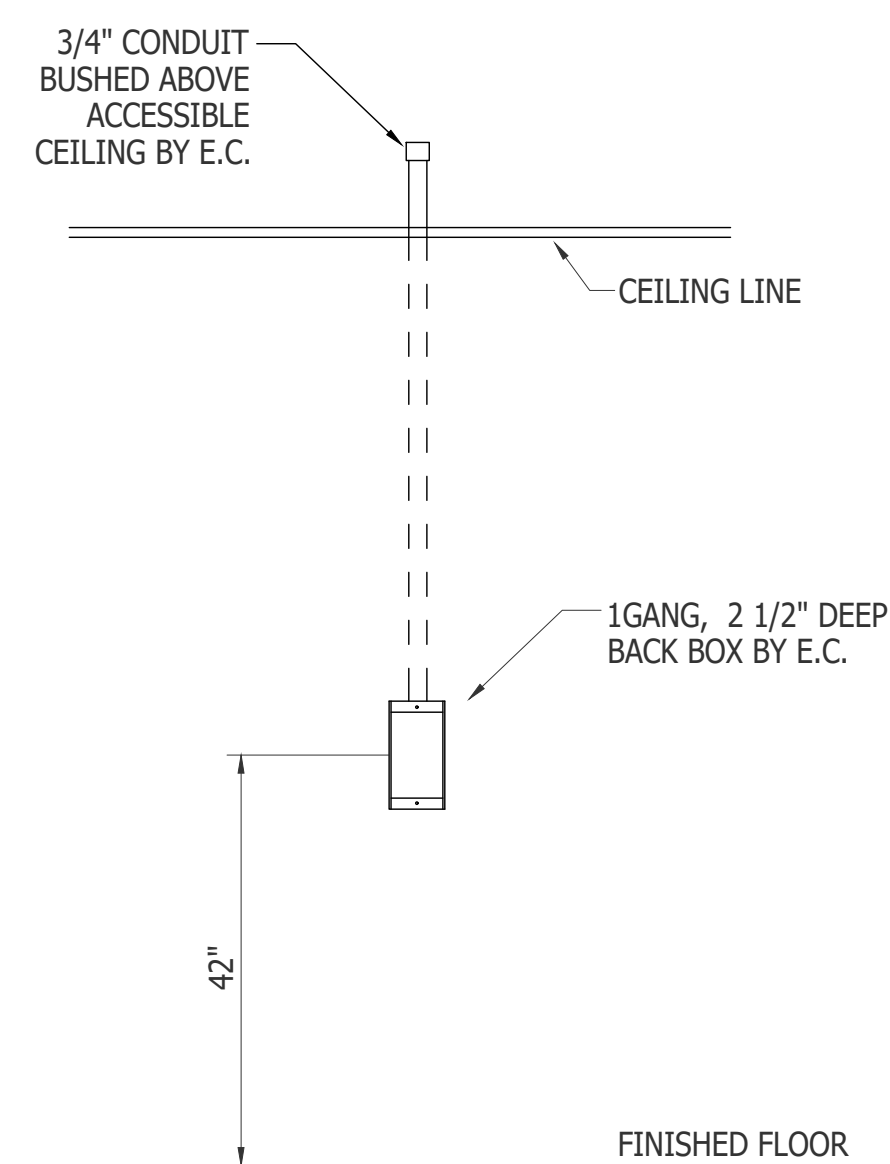
2 GANG FLOOR BOX DETAIL
SCALE 1/8"=1'-0"



TYPICAL TV POWER AND LOW VOLTAGE DETAIL
NO SCALE

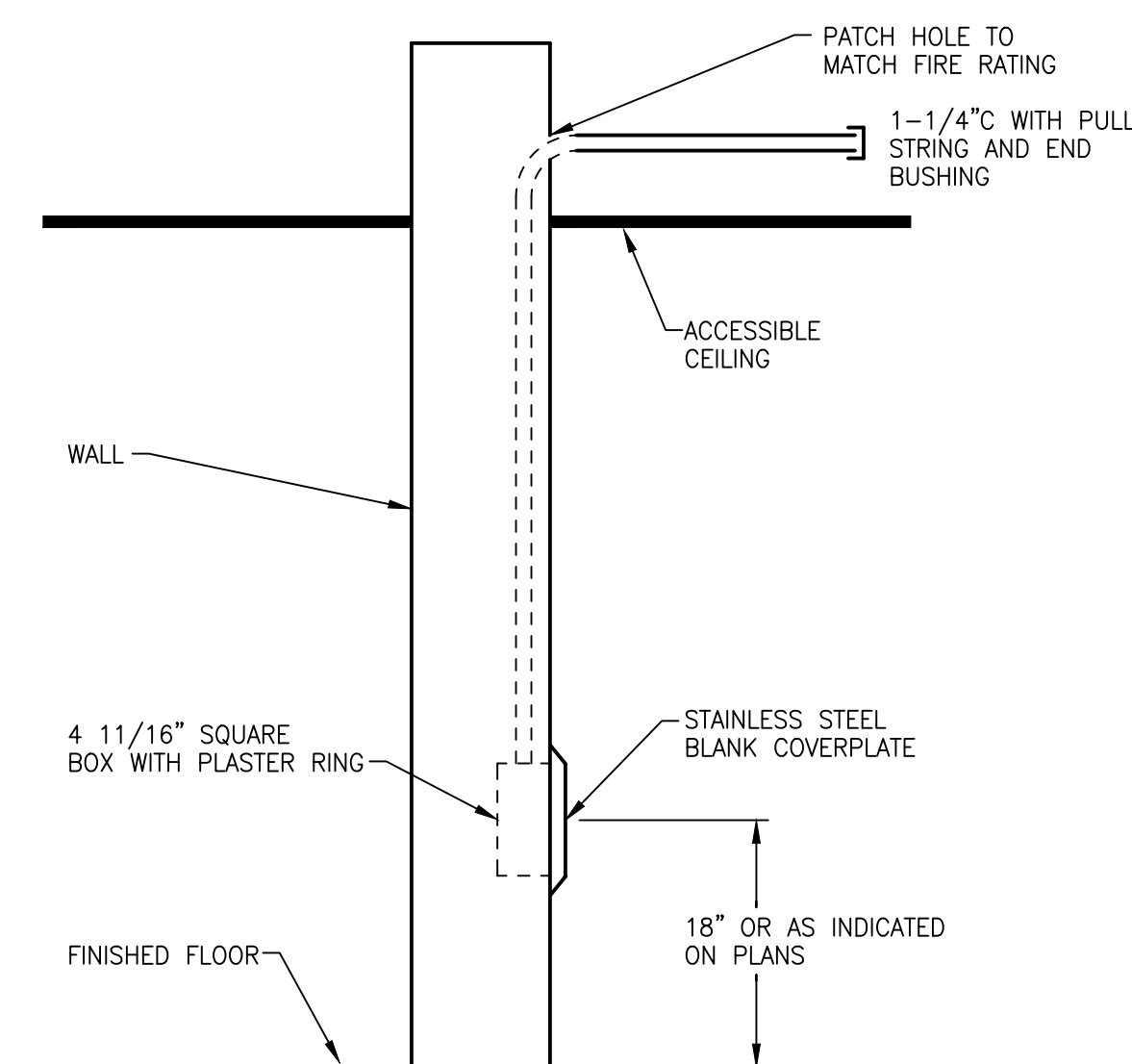


TYPICAL TV1 POWER AND LOW VOLTAGE DETAIL
NO SCALE

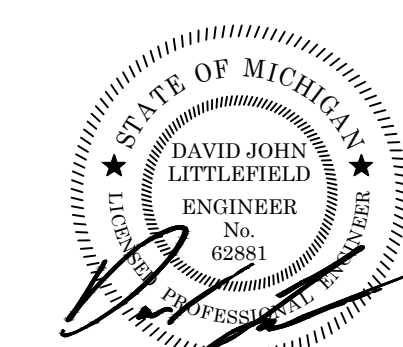
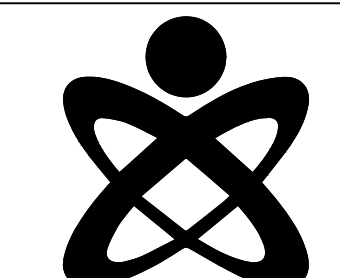


5 SINGLE CARD READER ROUGH-IN

N.T.S. SYMBOLS: CR



TELE/DATA/AV OUTLET DETAIL
NO SCALE



Panel Designation: (E) LP-C. Main: 200A MLO. P-P Voltage: 480. Panel Location: SEE FLOOR PLANS. Bussing: 200A. Ground Bus: STANDARD. Counting: SURFACE. Neutral: 100%. Min SC Interrupting Rating: EXISTING. Includes table with columns for Remarks, Light Load, Recept Load, Cont Load, nonC Load, OC Prot, Ckt A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and Remarks.

Panel Designation: LP-N. Main: 200A MCB. P-P Voltage: 480. Panel Location: SEE FLOOR PLANS. Bussing: 250A. Ground Bus: STANDARD. Counting: SURFACE. Neutral: 100%. Min SC Interrupting Rating: 42,000. Includes table with columns for Remarks, Light Load, Recept Load, Cont Load, nonC Load, OC Prot, Ckt A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and Remarks.

Panel Designation: (E) RP-A. Main: 150MCS. P-P Voltage: 208. Panel Location: SEE FLOOR PLANS. Bussing: 150A. Ground Bus: STANDARD. Counting: SURFACE. Neutral: 100%. Min SC Interrupting Rating: EXISTING. Includes table with columns for Remarks, Light Load, Recept Load, Cont Load, nonC Load, OC Prot, Ckt A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and Remarks.

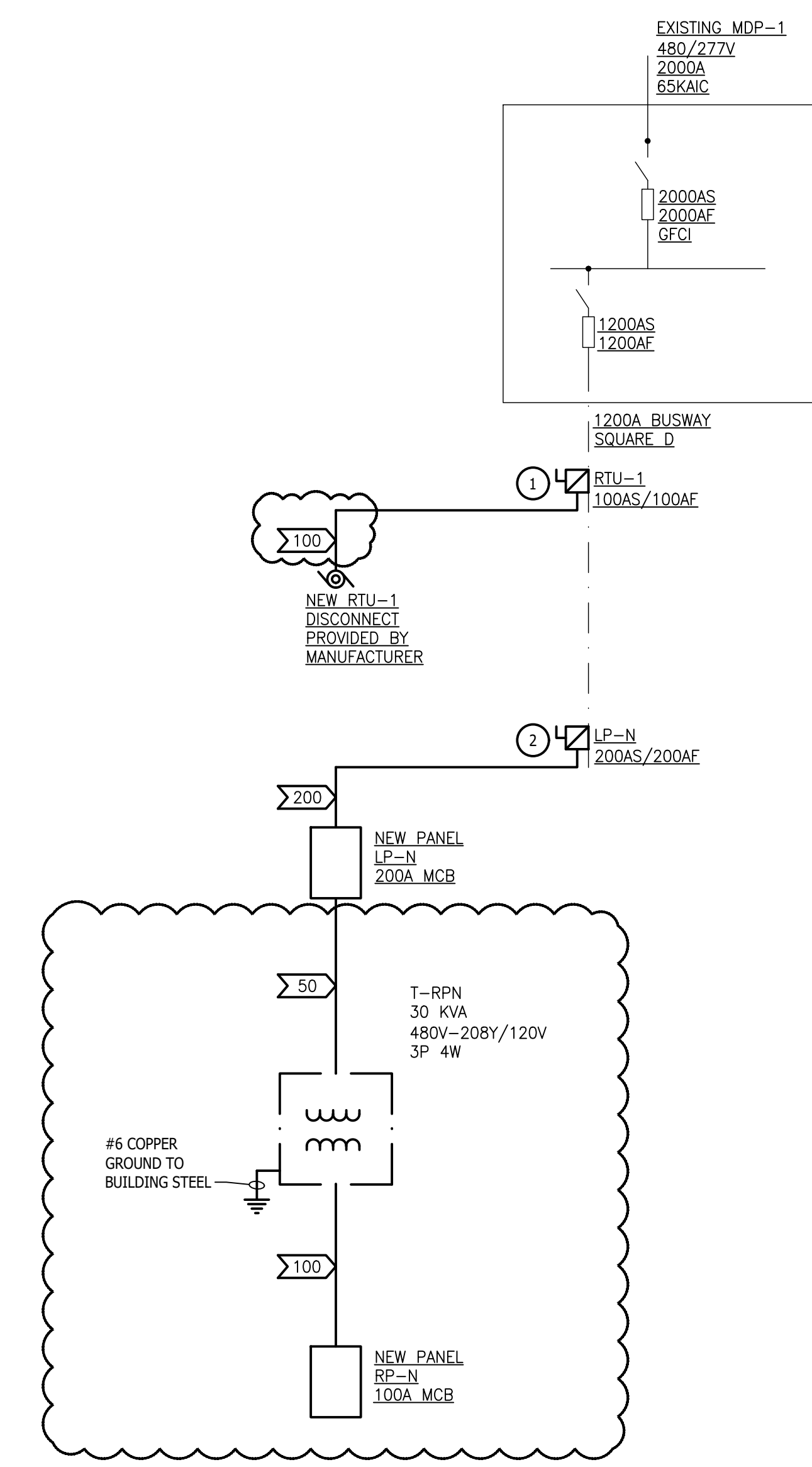
Panel Designation: RP-N. Main: 100A MCB. P-P Voltage: 208. Panel Location: SEE FLOOR PLANS. Bussing: 100A. Ground Bus: STANDARD. Counting: SURFACE. Neutral: 100%. Min SC Interrupting Rating: 22,000. Includes table with columns for Remarks, Light Load, Recept Load, Cont Load, nonC Load, OC Prot, Ckt A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and Remarks.

Panel Designation: (E) RP-B. Main: 100A MLO. P-P Voltage: 208. Panel Location: SEE FLOOR PLANS. Bussing: 100A. Ground Bus: STANDARD. Counting: SURFACE. Neutral: 100%. Min SC Interrupting Rating: EXISTING. Includes table with columns for Remarks, Light Load, Recept Load, Cont Load, nonC Load, OC Prot, Ckt A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and Remarks.

Panel Designation: RP-N. Main: 100A MCB. P-P Voltage: 208. Panel Location: SEE FLOOR PLANS. Bussing: 100A. Ground Bus: STANDARD. Counting: SURFACE. Neutral: 100%. Min SC Interrupting Rating: 22,000. Includes table with columns for Remarks, Light Load, Recept Load, Cont Load, nonC Load, OC Prot, Ckt A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and Remarks.

1200A BUSWAY SERVICE LOAD SUMMARY

	CONNECTED LOAD	DEMAND LOAD
RTU-1	73.2 KVA	73.2 KVA
LP-N	78.1 KVA	70.3 KVA
TOTAL	151.3 KVA	143.5 KVA
TOTAL DEMAND LOAD:	143.5 KVA / 172.6 AMPS	



PARTIAL ONE- LINE DIAGRAMS
NO SCALE

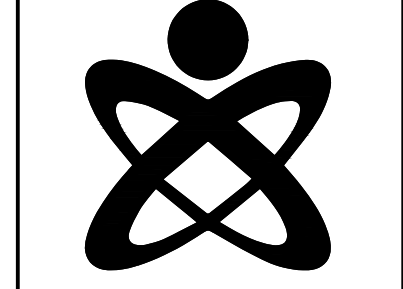
FEEDER (AMPS)	COND. SIZE	COPPER FEEDER AND CONDUIT SIZES	
		3 WIRE WITH GROUND	4 WIRE WITH GROUND
30	10	3#10, 1#10 GND IN 3/4" C	4#10, 1#10 GND IN 3/4" C
50	8	3/4" C, 3#8 & 1#10 GRD.	3/4" C, 4#8 & 1#10 GRD.
60	6	3/4" C, 3#6 & 1#10 GRD.	3/4" C, 4#6 & 1#10 GRD.
80	4	1" C, 3#4 & 1#8 GRD.	1" C, 4#4 & 1#8 GRD.
100	3	1 1/4" C, 3#3 & 1#8 GRD.	1 1/4" C, 4#3 & 1#8 GRD.
125	1	1 1/2" C, 3#1 & 1#6 GRD.	1 1/2" C, 4#1 & 1#6 GRD.
150	1/0	2" C, 3#1/0 & 1#6 GRD.	2" C, 4#1/0 & 1#6 GRD.
175	2/0	1 1/2" C, 3#2/0 & 1#6 GRD.	1 1/2" C, 4#2/0 & 1#6 GRD.
200	3/0	2" C, 3#3/0 & 1#6 GRD.	2" C, 4#3/0 & 1#6 GRD.
225	4/0	2-1/2" C, 3#4/0 & 1#4 GRD.	2-1/2" C, 4#4/0 & 1#4 GRD.
250	1-250	2 1/2" C, 3#250 & 1#4 GRD.	2 1/2" C, 4#250 & 1#4 GRD.
300	1-350	2 1/2" C, 3#350 & 1#4 GRD.	2 1/2" C, 4#350 & 1#4 GRD.
400	1-600	3" C, 3#600 & 1#3 GRD.	3 1/2" C, 4#600 & 1#3 GRD.
500	2-250	(2) 2 1/2" C, 3#250 & 1#2 GRD.	(2) 3" C, 4#250 & 1#2 GRD.
600	2-350	(2) 3" C, 3#350 & 1#1 GRD.	(2) 3" C, 4#350 & 1#1 GRD.
800	2-600	(2) 3" C, 3#600 & 1#2/0 GRD.	(2) 3 1/2" C, 4#600 & 1#2/0 GRD.
1000	3-500	(3) 3" C, 3#500MCM & 1#1/0 GRD.	(4) 3" C, 3#500MCM & 1#1/0 GRD.

- NEW WORK KEYED NOTES**
1. PROVIDE NEW 100A FUSIBLE SWITCH BUS PLUG IN EXISTING SQUARE D BUSWAY. MATCH EXISTING BUSWAY AIC RATING.
 2. PROVIDE NEW 200A FUSIBLE SWITCH BUS PLUG IN EXISTING SQUARE D BUSWAY. MATCH EXISTING BUSWAY AIC RATING.



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URS PROJECT 007.24.09

**MACOMB COUNTY
F & O / PURCHASING OFFICE RENOVATION
VIC WERTZ BUILDING**

ONE-LINE RISER DIAGRAMS

- PRELIMINARY
- DESIGN DEVELOPMENT
- CONSTRUCTION
- FINAL RECORD

DRAWN BY: TJO
CHECKED BY: DJL

REVISIONS
ADDENDUM No. 1 11/2/2024

DATE: OCTOBER 31, 2024
SHEET NO.

E7.00

JOB NO. **242053**

