



# West Michigan Hispanic Chamber of Commerce - HQ

1111 Godfrey Ave. SW  
Grand Rapids, MI  
49507

Project Number: 2024-010.00

Issued For: Bid Set

OWNER:  
WEST MICHIGAN HISPANIC CHAMBER OF COMMERCE

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## GENERAL

"R" REVISED DRAWING, "N" NEW DRAWING  
DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
G-000	Cover Sheet	Bid Set	02/07/2025
G-001	General Information Sheet	Bid Set	02/07/2025
G-003	Code Analysis & Life Safety Plan	Bid Set	02/07/2025
G-005	Products and Specs	Bid Set	02/07/2025
G-006	Products and Specs	Bid Set	02/07/2025
G-007	LEED Specifications	Bid Set	02/07/2025

DRAWINGS: 6

## CIVIL

"R" REVISED DRAWING, "N" NEW DRAWING  
DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
C-100	Existing Conditions/Demolition Plan	Bid Set	02/07/2025
C-200	Site Development Plan	Bid Set	02/07/2025
C-201	Site Utility Plan	Bid Set	02/07/2025
C-202	Site Grading Plan	Bid Set	02/07/2025

DRAWINGS: 4

## ARCH

"R" REVISED DRAWING, "N" NEW DRAWING  
DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
A-001	Architectural Site Plan	Bid Set	02/07/2025
A-101	Floor Plan - Level 1	Bid Set	02/07/2025
A-102	Floor Plan - Level 2	Bid Set	02/07/2025
A-103	Roof Plan	Bid Set	02/07/2025
A-201	Elevations - East and South	Bid Set	02/07/2025
A-202	Elevations - West and North	Bid Set	02/07/2025
A-301	Building Sections	Bid Set	02/07/2025
A-303	Details	Bid Set	02/07/2025
A-304	Details	Bid Set	02/07/2025
A-401	Stairs & Elevator - Enlarged Plans and Sections	Bid Set	02/07/2025
A-402	Typical Stair & Elevator Details	Bid Set	02/07/2025
A-403	Interior Elevations	Bid Set	02/07/2025
A-501	Roof Details	Bid Set	02/07/2025
A-601	Door Schedule and Finish Legend	Bid Set	02/07/2025
A-602	Typical Partition Details	Bid Set	02/07/2025
A-603	Top of Partition Details	Bid Set	02/07/2025
A-604	Partition Schedule, Legend, and Details	Bid Set	02/07/2025
A-701	Reflected Ceiling Plan - Level 1	Bid Set	02/07/2025
A-702	Reflected Ceiling Plan - Level 2	Bid Set	02/07/2025

DRAWINGS: 19

## STRUCTURAL

"R" REVISED DRAWING, "N" NEW DRAWING  
DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
S-001	ABBREVIATIONS AND SYMBOLS	Bid Set	02/07/2025
S-002	GENERAL NOTES	Bid Set	02/07/2025
S-003	SPECIAL INSPECTIONS	Bid Set	02/07/2025
S-101	FRAMING PLANS	Bid Set	02/07/2025
S-200	BUILDING ELEVATIONS	Bid Set	02/07/2025
S-201	WALL ELEVATIONS	Bid Set	02/07/2025
S-301	TYPICAL CONCRETE DETAILS	Bid Set	02/07/2025
S-302	FOUNDATION DETAILS	Bid Set	02/07/2025
S-303	FOUNDATION SECTIONS	Bid Set	02/07/2025
S-501	STEEL SECTIONS AND DETAILS	Bid Set	02/07/2025
S-502	STEEL SECTIONS AND DETAILS	Bid Set	02/07/2025
S-503	STEEL SECTIONS AND DETAILS	Bid Set	02/07/2025
S-700	SECTIONS AND DETAILS	Bid Set	02/07/2025
S-701	SECTIONS AND DETAILS	Bid Set	02/07/2025

DRAWINGS: 14

## MECHANICAL

"R" REVISED DRAWING, "N" NEW DRAWING  
DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
M-111	HVAC Floor Plan - Level 1	Bid Set	01/24/2025
M-121	HVAC Floor Plan - Level 2	Bid Set	01/24/2025
MP-001	Mechanical Symbols List, Index and Notes	Bid Set	01/24/2025
MP-002	Mechanical Specifications	Bid Set	01/24/2025
MP-131	Mechanical Roof Plan	Bid Set	01/24/2025
MP-401	Mechanical Schedules	Bid Set	01/24/2025
MP-501	Mechanical Details	Bid Set	01/24/2025
MP-502	Mechanical Details	Bid Set	01/24/2025
MP-601	Temperature Controls	Bid Set	01/24/2025

DRAWINGS: 9

## PLUMBING

"R" REVISED DRAWING, "N" NEW DRAWING  
DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
P-101	Underground Plumbing Plan	Bid Set	01/24/2025
P-111	Plumbing Floor Plan - Level 1	Bid Set	01/24/2025
P-121	Plumbing Floor Plan - Level 2	Bid Set	01/24/2025

DRAWINGS: 3

## ELECTRICAL

"R" REVISED DRAWING, "N" NEW DRAWING  
DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
E-000	ELECTRICAL LEGEND, SHEET INDEX, AND GENERAL NOTES	Bid Set	02/07/2025
E-010	ELECTRICAL ONE-LINE DIAGRAM	Bid Set	02/07/2025
E-020	WIRE AND LIGHTING FIXTURE SCHEDULES AND CONTROL MATRIX	Bid Set	02/07/2025
E-030	ELECTRICAL PANEL SCHEDULES	Bid Set	02/07/2025
E-031	ELECTRICAL PANEL SCHEDULES	Bid Set	02/07/2025
E-100	SITE PLAN - ELECTRICAL	Bid Set	02/07/2025
E-210	FLOOR PLAN - LEVEL 1 - LIGHTING	Bid Set	02/07/2025
E-220	FLOOR PLAN - LEVEL 2 - LIGHTING	Bid Set	02/07/2025
E-310	FLOOR PLAN - LEVEL 2 - POWER	Bid Set	02/07/2025
E-320	FLOOR PLAN - LEVEL 2 - POWER	Bid Set	02/07/2025
E-330	ROOF PLAN - POWER	Bid Set	02/07/2025
E-400	ENLARGED KITCHEN PLAN - POWER	Bid Set	02/07/2025
E-600	ELECTRICAL DETAILS	Bid Set	02/07/2025

DRAWINGS: 13

## FOOD SERVICE AND EQUIPMENT

"R" REVISED DRAWING, "N" NEW DRAWING  
DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
FS-1	Floor Plan	Bid Set	02/07/2025
FS-2	Detail Plan	Bid Set	02/07/2025

DRAWINGS: 2

PROJECT SITE



LOCATION MAP NOT TO SCALE

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**ROSSETTI**

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SHEET TITLE  
Cover Sheet

PROJECT #  
2024-010.00

SHEET #  
**G-000**

Table with 3 columns: #, DESCRIPTION, DATE. Row 1: 1 Bid Set, 02/07/2025.

KEY PLAN

SHEET TITLE  
General Information Sheet

ABBREVIATIONS

Table of abbreviations including AND, ANGLE, AT, CENTERLINE, DIAMETER, etc.

ABBREVIATIONS

Table of abbreviations including EAST, EACH, EXPOSED CONSTRUCTION, etc.

ABBREVIATIONS

Table of abbreviations including LABORATORY, LAVATORY, LOCKER, etc.

ABBREVIATIONS

Table of abbreviations including SOUTH, SOLID CORE, SEAT COVER DISPENSER, etc.

ABBREVIATIONS

Table of abbreviations including SH, SHELF, SHOWER, SHEET, etc.

ABBREVIATIONS

Table of abbreviations including TREAD, T.O.C., TRAFFIC ELASTOMERIC COATING, etc.

ABBREVIATIONS

Table of abbreviations including TELEPHONE, TAG, TONGUE AND GROOVE, THICK, etc.

ABBREVIATIONS

Table of abbreviations including TELEVISION, T.O.W., T.O.S., TYPICAL, etc.

ABBREVIATIONS

Table of abbreviations including UPHOLSTERY, UNFINISHED, UNLESS NOTED OTHERWISE, URINAL, etc.

ABBREVIATIONS

Table of abbreviations including VCT, VINYL COMPOSITION TILE, VERTICAL, VINYL ASBESTOS TILE, etc.

ABBREVIATIONS

Table of abbreviations including WEST, WITH, WALL BASE, WATER CLOSET, etc.

ABBREVIATIONS

Table of abbreviations including WOOD, WOODWORK, WOOD JOINT, WOOD BLOCKING, etc.

MATERIAL LEGEND

Material Legend table with columns for material name and corresponding hatching pattern.

KEYNOTE SYSTEM

1. CERTAIN MATERIALS, COMPONENTS OR ASSEMBLIES ARE IDENTIFIED AND/OR DESCRIBED ON SOME DRAWINGS USING AN ALPHANUMERIC REFERENCE IDENTIFICATION OR KEYNOTE SYSTEM...

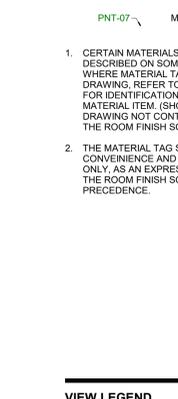
MATERIAL TAG SYSTEM

1. CERTAIN MATERIALS ARE IDENTIFIED AND/OR DESCRIBED ON SOME DRAWINGS USING A KEYNOTE SYSTEM...

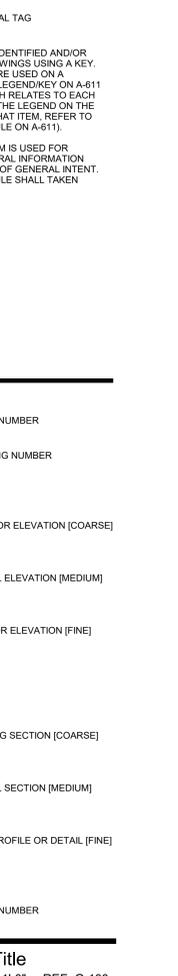
VIEW LEGEND

View Legend table showing symbols for detail numbers, elevations, sections, and wall profiles.

DETAIL SHEET - NUMBER LOCATIONS



SHEET NUMBERS



GENERAL NOTES

FIRE RESISTIVE ASSEMBLIES- THE PROJECT SHALL CONFORM TO UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY AND BUILDING MATERIALS DIRECTORY.

GENERAL NOTES

REFER TO SPECIFICATION SECTION 078100, AS APPLICABLE, FOR SPRAY-ON FIREPROOFING REQUIREMENTS...

GENERAL NOTES

FOR ANY CHANGE OF U.L. DESIGN NUMBER, OR ANY CHANGE IN MATERIAL(S) IN A U.L. DESIGN ASSEMBLY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR...

GENERAL NOTES

TREATMENT OF EXISTING SURFACES- PATCH AND REPAIR ALL EXISTING WALL SURFACES ADJACENT TO NEW WORK AS REQUIRED TO ACHIEVE AN UNINTERRUPTED SURFACE APPEARANCE.

GENERAL NOTES

DIMENSIONING CRITERIA DIMENSIONS FOR LOCATING PARTITIONS AND OPENINGS ARE GENERALLY ESTABLISHED BY CRITERIA...

GENERAL NOTES

FOR OPENINGS IN PARTITIONS OR WALLS: (A) WHEN AN OPENING OCCURS AT A COLUMN OR GRID LINE, NO DIMENSIONS WILL BE SHOWN ON THE PLANS...

REFLECTED CEILING PLANS

ITEMS SHOWN ON THE ARCHITECTURAL DRAWINGS ARE TO BE LOCATED PER THE ARCHITECTURAL DRAWINGS. NOT ALL ITEMS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS...

WOOD BLOCKING REQUIREMENTS

PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING AS SPECIFIED IN SPECIFICATIONS SECTION 061000 - ROUGH CARPENTRY - FOR THE FOLLOWING ITEMS (UNLESS ANOTHER BACKING MATERIAL IS NOTED):

MECHANICAL AND ELECTRICAL OPENINGS

MECHANICAL AND ELECTRICAL OPENINGS- SIZE AND LOCATION OF ALL FLOOR OPENINGS, ROOF OPENINGS, AND WALL OPENINGS REQUIRED TO ACCOMMODATE DUCT PENETRATIONS...

MECHANICAL AND ELECTRICAL EQUIPMENT PADS

PROVIDE CONCRETE PADS FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF ALL EQUIPMENT AND VERIFY SIZE WITH MECHANICAL AND ELECTRICAL TRADES.

ROOF EQUIPMENT AND OPENINGS

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF ALL EXHAUST FANS, VENTS, MECHANICAL OR ELECTRICAL EQUIPMENT, ETC.

FIRE EXTINGUISHER TYPES

PROVIDE 2A-105-C TYPE FIRE EXTINGUISHERS AT ALL TYPICAL LOCATIONS UNLESS NOTED OTHERWISE.

SMOKE SEPARATION

Symbol Legend table showing symbols for smoke separation, fire separation, metal stud partition, CMU partition, concrete wall, wall partition tag, door & tag, room, railing tag, keynote tag, material tag, top of slab concrete elevation, column grid, work point, floor elevation.

GENERAL NOTES [PROJECT SPECIFIC]

A. GENERAL NOTES APPLY TO ALL SHEETS. B. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND BECOME KNOWLEDGEABLE OF CONDITIONS IN THE VICINITY OF THE PROJECT...

GENERAL NOTES [PROJECT SPECIFIC]

C. ON UTILITIES IDENTIFIED ON THE PROJECT SITE (NOT IDENTIFIED FOR REMOVAL OR RELOCATION) DURING THE COURSE OF CONSTRUCTION TO BE IN CONFLICT WITH WORK INDICATED IN THE CONTRACT DOCUMENTS...

GENERAL NOTES [PROJECT SPECIFIC]

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE REVIEW OF ALL CONTRACT DOCUMENTS. NO EXTRAS WILL BE PERMITTED FOR ANY ITEM WHICH IS INCLUDED OR IMPLIED BY THE CONTRACT DOCUMENTS...

GENERAL NOTES [PROJECT SPECIFIC]

E. THE CONTRACTOR SHALL PROVIDE LABOR, MATERIALS AND ASSEMBLIES NECESSARY TO COMPLETE THE PROJECT AS DESCRIBED BY THESE CONTRACT DOCUMENTS.

GENERAL NOTES [PROJECT SPECIFIC]

F. ALL CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES [PROJECT SPECIFIC]

G. DURING AND AT THE COMPLETION OF THE DAILY WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING ALL RUBBISH AND DEBRIS BEFORE LEAVING THE PROJECT SITE.

PROJECT

## West Michigan Hispanic Chamber of Commerce - HQ

1111 Godfrey Ave. SW  
 Grand Rapids, MI 49507

CONSULTANT

PROFESSIONAL SEAL

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#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

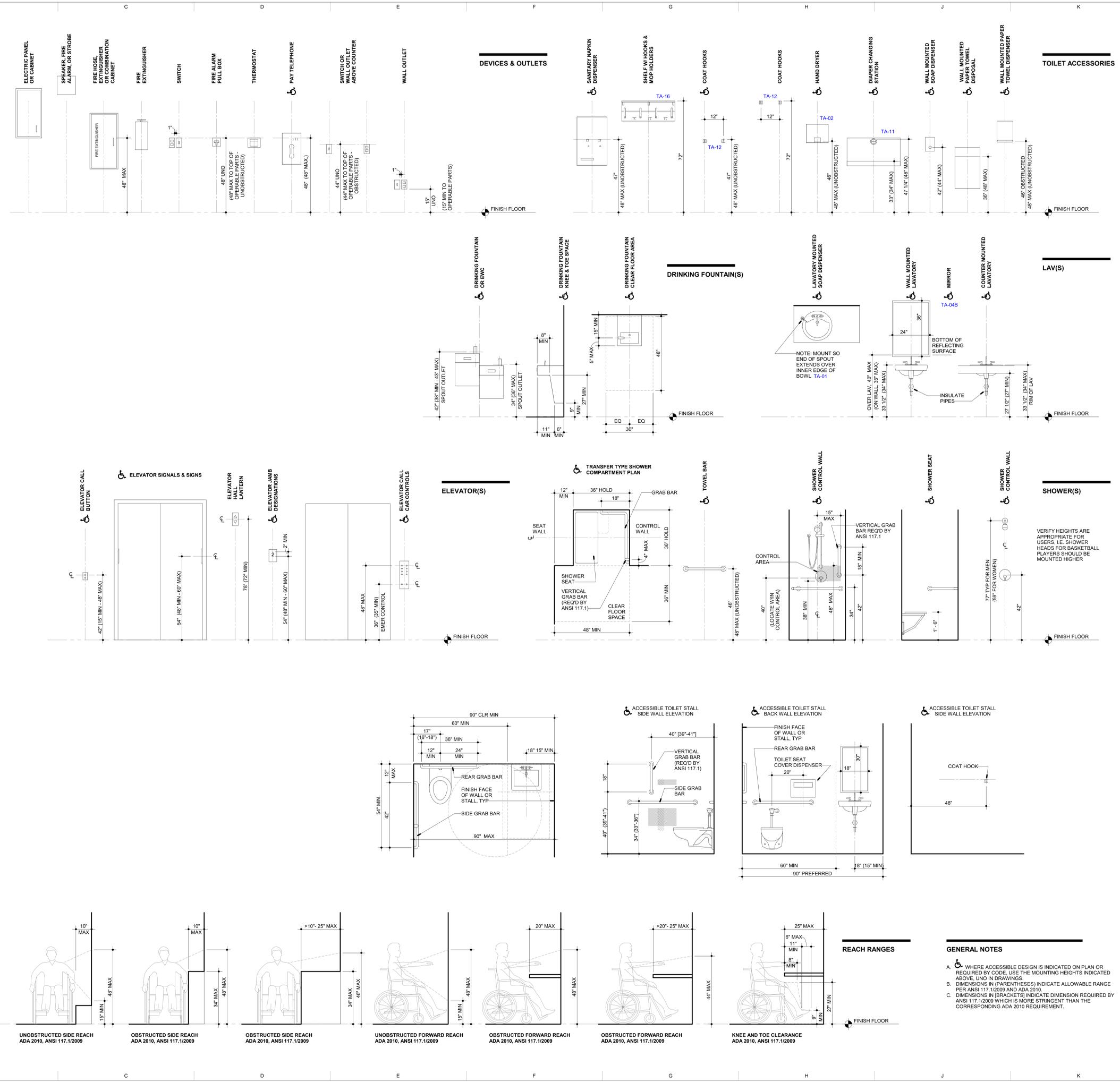
KEY PLAN

SHEET TITLE  
 Mounting Heights

PROJECT #  
 2024-010.00

SHEET #

### G-002



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PROJECT

West Michigan  
Hispanic  
Chamber of  
Commerce -  
HQ

1111 Godfrey Ave. SW  
Grand Rapids, MI 49507

CONSULTANT

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#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

KEY PLAN

SHEET TITLE  
Code Analysis & Life Safety Plan

PROJECT #  
2024-010.00

SHEET #

G-003

OCCUPANCY LOAD SCHEDULE

\* Shaded Occupant Loads indicate actual occupant count is used instead of SF/Occupant calculation - see seating table above.

RM #	ROOM NAME	AREA	LOAD FACTOR	OCC LOAD
101	VESTIBULE	68 SF		0
102	LOBBY/CAFE	772 SF	100	8
103	KITCHEN	384 SF	200	2
104	STORAGE	68 SF	300	1
106	MECH ROOM	54 SF	300	1
107	EVENT ROOM	1,956 SF		0
108	STORAGE	73 SF	300	1
109	HALLWAY	70 SF		0
111	ELEC	91 SF	300	1
112	OFFICE	107 SF	100	2
113	OFFICE	107 SF	100	2
114	CONF/PODCAST	112 SF	100	2
116	KIDS ROOM	120 SF	100	2
117	CONF/PODCAST	117 SF	100	2
118	COMMUNITY OFFICES	732 SF	100	8
119	HALLWAY	139 SF		0
120	TOILET	52 SF		0
121	TOILET	48 SF		0
122	TOILET	48 SF		0
123	TOILET	48 SF		0
124	TOILET	48 SF		0
125	HALLWAY	142 SF		0
126	HALLWAY	122 SF		0
127	RECEPTION	83 SF		0
201	HALLWAY	93 SF		0
202	HALLWAY	1,107 SF		0
203	PHONE BOOTHS	53 SF		0
204	RENTABLE OFFICE	78 SF	100	1
205	RENTABLE OFFICE	75 SF	100	1
206	RENTABLE OFFICE	72 SF	100	1
207	CONFERENCE ROOM	169 SF	15	8
208	CONFERENCE ROOM	545 SF	15	20
209	OFFICE	81 SF	100	1
210	OFFICE	80 SF	100	1
211	WORK ROOM	62 SF		0
212	OFFICE AREA	1,028 SF	100	11
213	CEO OFFICE/MTG AREA	224 SF	100	3
214	TRAINING ROOM	507 SF		0
215	TRAINING ROOM	478 SF		0
216	KITCHEN	74 SF	100	1
217	TOILET	62 SF		0
218	WELLNESS ROOM	60 SF	100	1
219	JANITOR	22 SF		0
220	PHONE BOOTHS	48 SF		0
221	TOILET	48 SF		0
222	ELECT. ROOM	83 SF	300	1
EL-A	ELEVATOR	58 SF		0
ST-A	STAIR A	31 SF		0
ST-B	STAIR B	<varies>		0
TOTAL				82

GENERAL NOTES

- One (1) Barrier-free of each fixture type (min) per toilet room; one (1) ambulatory stall shall be provided in any toilet room where six (6) or greater stalls are provided.
- One (1) family toilet (min) shall be provided.
- Family restrooms used to supplement required men/women fixtures.
- Restrooms available to all occupants on each floor.

CODE ANALYSIS

PROJECT SCOPE  
New 2-story building, with a total of approximately 12,160 SF

APPLICABLE CODES  
2015 Michigan Building Code (MBC)  
2021 Michigan Mechanical Code (MMC)  
2021 Michigan Plumbing Code (MPC)  
2015 Michigan Energy Code (MEC)  
2013 ANSI/ASHRAES 90.1  
2002 National Electrical Code (NEC)  
2017 ICC A117.1

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION  
NON-SEPARATED MIXED-USE: B and A3, fully sprinklered

CHAPTER 4 - GENERAL BUILDING HEIGHTS AND AREAS  
(A-3 is controlling occupancy)

Allowable Area: 28,500 SF  
Actual Area: 12,164 SF total  
6,100 SF - First Floor  
6,064 SF - Second Floor + Balcony  
Allowable Stories (Height): 2 (40'-0")  
Actual Stories (Height): 2 (30'-0")

CHAPTER 5 - TYPES OF CONSTRUCTION  
Type: IIB

-Structural Frame: 0 hour  
-Bearing Walls: 0 hour  
-Exterior Non-Bearing Walls: 0 Hour  
-Interior Non-Bearing Walls: 0 Hours  
-Opening Protectives at Exterior Wall: 0 Hours  
-Floor Construction and Secondary Framing: 0 hour  
-Roof Construction and Secondary Framing: 0 hour

CHAPTER 9 - FIRE PROTECTION SYSTEMS  
Automatic Sprinkler Systems: YES  
Fire Alarm and Detection Systems: YES

CHAPTER 10 - MEANS OF EGRESS  
TABLE 1001.2  
SEE OCCUPANCY LOAD SCHEDULE  
Total Occupants: 462

1011.12.2 - A permanent ladder with roof hatch is used for access to non-occupiable roof area.

CHAPTER 11 - ACCESSIBILITY  
1103.2.7 Limited Access Spaces: Nonoccupiable spaces accessed only by ladders are not required to be accessible.

	WC/Male	WC/Female	Lavatories	DFs	Service sink
Assembly A-3	1 per 125	1 per 65	1 per 200	1 per 500	1
Business B	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50		1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 500	1

PLUMBING FIXTURE CALCULATIONS

Refer to MPC Chapter 29 and Table 403.1 "MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES" for specifics, exceptions, and footnotes.

OCCUPANCY: ASSEMBLY - A-3	OCCUPANTS: 180				(90 MALE / 90 FEMALE)		
	WATER CLOSET	LAVATORIES	BATHTUBS OR SHOWERS	DRINKING FOUNTAINS	OTHER		
Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums	1	1	1	1	1	1 Service Sink	

PLUMBING FIXTURE CALCULATIONS

Refer to MPC Chapter 29 and Table 403.1 "MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES" for specifics, exceptions, and footnotes.

OCCUPANCY: Business - B	OCCUPANTS: 127				(64 MALE / 64 FEMALE)		
	WATER CLOSET	LAVATORIES	BATHTUBS OR SHOWERS	DRINKING FOUNTAINS	OTHER		
Buildings for the transaction of business, professional services, light industrial and similar uses	3	3	2	2	2	1 Service Sink	

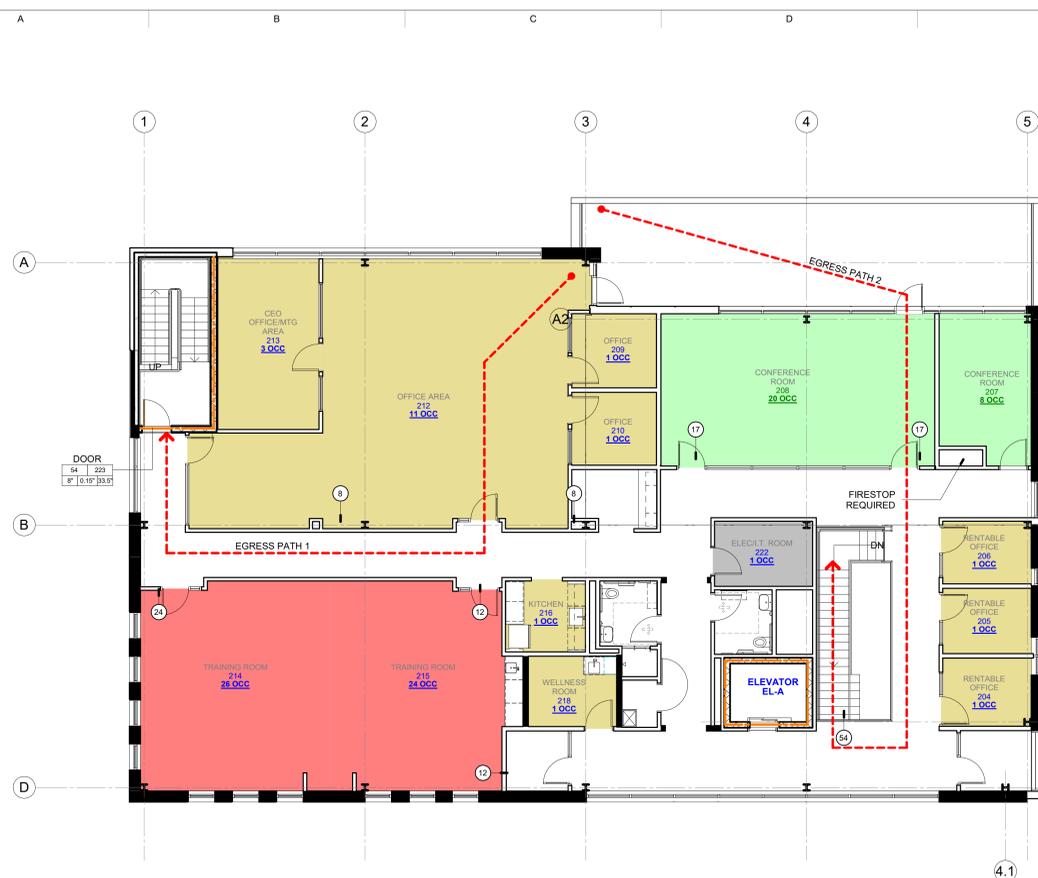
EGRESS PATH DISTANCES

Max Common Path of Travel (C): 50'  
Max Exit Access Travel Distance (E): 200'

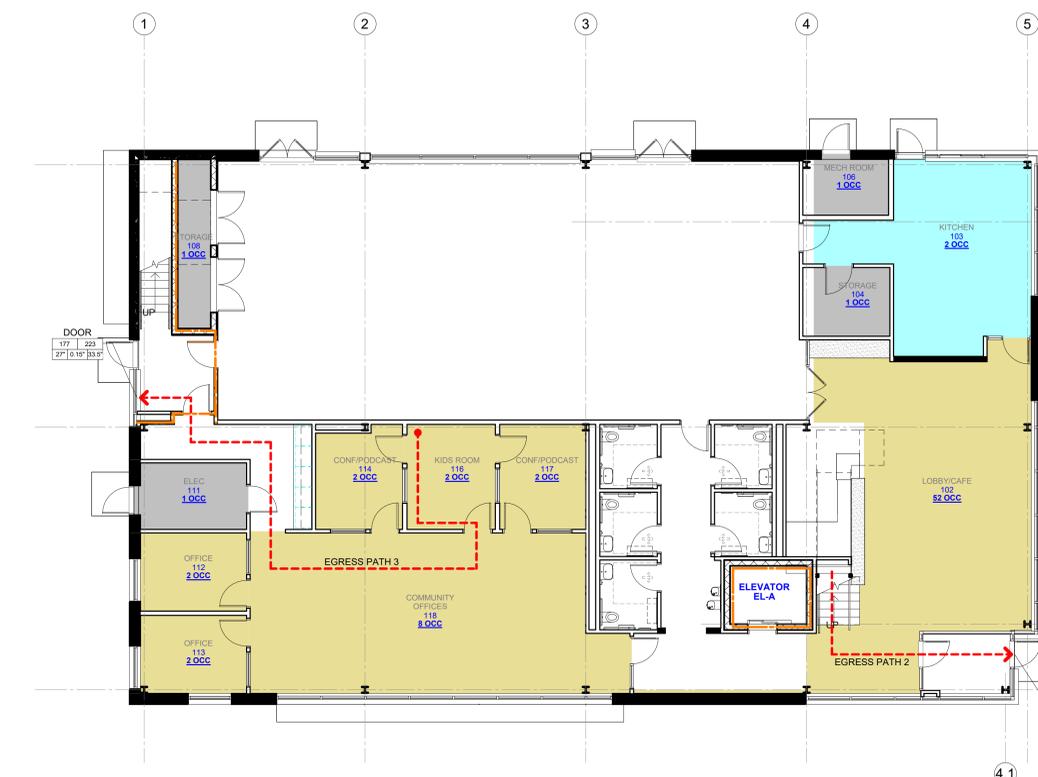
EGRESS PATH	TRAVEL DISTANCE
Egress Path 1	63' - 7"
Egress Path 3	79' - 3"
Egress Path 2	168' - 10"

LIFE SAFETY LEGEND

- SMOKE BARRIER PER 2020 FPCC SECTION 8.5
- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE WALL
- DOOR: 36" WIDE MINIMUM 34" CLEAR MINIMUM U.O.
- OCCUPANCY LOAD
- TYPE OF EGRESS COMPONENT
- EGRESS CAPACITY
- ACTUAL EGRESS WIDTH
- EGRESS CAPACITY FACTOR
- CALCULATED EGRESS WIDTH
- NAME: ROOM NAME AND NUMBER
- XXX.OCC: FIXED/MAX NUMBER OF OCCUPANTS
- NAME: ROOM NAME AND NUMBER
- XXX.OCC: NUMBER OF OCCUPANTS
- EGRESS LOAD AT THAT LOCATION (ADDITIVE ALONG PATH OF TRAVEL)
- EGRESS LOAD IN OUTLINED AREA
- COMMON PATH OF TRAVEL
- EXIT ACCESS TRAVEL
- A-5 OCCUPANCY USE GROUP
- 200 OCCUPANT LOAD FOR A GIVEN AREA. TOTAL OF ALL EQUALS TOTAL FLOOR OCCUPANTS.
- FE FIRE EXTINGUISHER
- GFE GREASE FIRE EXTINGUISHER
- FEC FIRE EXTINGUISHER CABINET
- AREA OF SMOKE PROTECTED SPACES PER 1024.6.3 (OUTDOOR)
- ROOMS TO BE SPRINKLERED SPACES PER 903.2.1.5



A4 Life Safety Plan - Level 2  
G-003 SCALE: 1/8" = 1'-0"



A7 Life Safety Plan - Level 1  
G-003 SCALE: 1/8" = 1'-0"



# ROSSETTI

160 WEST FORT, SUITE 400  
DETROIT, MICHIGAN 48226  
**ROSSETTI.COM** 313.463.5151

## PROJECT West Michigan Hispanic Chamber of Commerce - HQ

1111 Godfrey Ave. SW  
Grand Rapids, MI 49507

### CONSULTANT

### PROFESSIONAL SEAL

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#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

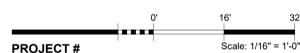
### KEY PLAN

### SHEET TITLE Products and Specs

**PROJECT #**  
2024-010.00

### SHEET #

**G-006**



**088000 - GLAZING**

Submittals  
Submit product data, samples, shop drawings, warranty, maintenance data for each product.

Products  
As indicated on Architectural drawings.

GT-01 (Exterior Envelope): Low-E, 1" thick Insulating Glass.  
Basis of Design Product: Guardian SunGuard SN68 on Clear or Approved Equal.  
Outdoor Lite: 1/4 inch clear, Low-E coating on #2 surface.  
Interspace: 1/2 inch airspace.  
Indoor Lite: 1/4 inch clear.

Performance Requirements:  
Minimum Visible Light Transmittance: 68 percent.  
Maximum U-Factor: 0.30 Btu/(hr x sq ft x deg F).  
Maximum Solar Heat Gain Coefficient: 0.38  
Outdoor Visible Reflectance: 11 percent.

Insulated Glass Units: Double pane with polyisobutylene primary and secondary silicone sealant edge seal.

Primary Glass Products: Clear float and tinted float glass: Comply ASTM C1036, Standard Specification for Flat Glass.

Heat-Treated Glass Products: Heat-strengthened, tempered, coated, and spandrel glass: Comply with ASTM C1048, Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.

Contractor shall provide safety glazing as required by Code, for applicable glazing types indicated.

Installation  
Comply with FGMA Glazing Manual and manufacturer's recommendations.

**092900 - GYPSUM BOARD ASSEMBLIES**

General  
This section includes gypsum board and non-structural metal framing

Products  
Non-structural metal framing complying with ASTM C645:

Gypsum board:  
Gypsum wallboard: ASTM C1396/1396M, Type "X", 5/8 inch thick.  
Mold/Moisture resistant gypsum panels: ASTM C1396/1396M, Type "X", 5/8 inch thick.  
Locations: Toilet Rooms (except at tiled walls) and Kitchens.

Glass-Mat Tile Backerboard: ASTM C1178, 5/8 inch thick.  
Locations: Behind tile finishes, refer to room schedule for locations.

Impact Resistant Gypsum Wallboard: ASTM C1629/1629M, Type "X", 5/8 inch thick.  
Impact Rating: Level 3 for Soft and Hard Body Impact Resistance

All accessories to comply with Manufacturer's recommendations.

Execution  
Install all products as indicated in Manufacturer's written instructions and comply with ASTM C 840 and GA-216.

Control Joints: Provide control joints at 30 feet minimum or as otherwise noted on construction documents

Level of gypsum board finish: provide the following levels of gypsum board finish per GA-214.  
Level 1 for ceiling plenum areas, concealed areas, and where indicated, unless a higher level of finish is required for sound-rated assemblies.  
Level 2 where water-resistant gypsum backing board panels form substrates for tile, and where indicated.  
Level 4 for gypsum board surfaces unless otherwise indicated.

**093013 TILING SPECIFICATION**

Submittals  
Submit product data, shop drawings, and samples of tiles and all accessories.

Products  
Refer to finish schedule for tile manufacturers, models, colors and sizes.  
Membrane, sealants to be manufacturer's standard product.

Elastomeric Sealants: One-part mildew-resistant silicone sealant for non-traffic areas. Multi-part pourable urethane sealant for traffic areas. Chemical-resistant sealant at chemical-resistant flooring.

**FLOOR TILE INSTALLATION SCHEDULE**

Tile Installation: Interior floor installation on concrete.  
Tile Type: Ceramic floor tile.  
Setting Materials:  
Latex-portland cement mortar (thin set): TCA F113  
Organic adhesive or water-cleanable epoxy adhesive; TCA F116.  
Grout: Polymer-modified tile grout or water-cleanable epoxy grout.

**WALL TILE INSTALLATION SCHEDULE**

Tile Installation: Interior wall installation over backer units.  
Tile Type: Ceramic wall tile.  
Setting Materials:  
Latex-portland cement mortar (thin set): TCA W244.  
Organic adhesive or water-cleanable epoxy adhesive.  
Grout: Polymer-modified tile grout or water-cleanable epoxy grout.

**099123 PAINTING SPECIFICATION**

Submittals  
Product data including confirmation of MPI numbers and samples.

**PRODUCTS**

**PRIMERS/SEALERS**  
Interior Latex Primer/Sealer: MPI #50.  
Basis-of-Design Product: SW; ProMar 200 Zero VOC Interior Latex Primer, B28 Series.

**METAL PRIMERS**  
Primer, Rust-Inhibitive, Water Based: MPI #107.  
Basis-of-Design Product: SW; Pro Industrial Pro-Cryl Universal Primer, B66 Series.

Alkyd Metal Primer: MPI #76.  
Basis-of-Design Product: SW; Kern Bond HS Universal Alkyd Primer, B50 Series.

Galvanized-Metal Primer: MPI #26.  
Basis-of-Design Product: SW; Pro Industrial Pro-Cryl Universal Primer, B66 Series.

**WOOD PRIMERS**  
Interior Lacquer Sanding Sealer: MPI #24.

**WATER-BASED PAINTS**  
Interior Latex (Flat): MPI #53 (Gloss Level 1).  
Basis-of-Design Product: SW; ProMar 200 Zero VOC Interior Latex Flat, B30 Series.

Interior Latex (Eggshell): MPI #52, #139 (Gloss Level 3).  
Basis-of-Design Product: SW; ProMar 200 Zero VOC Interior Latex Eg-Shel, B20 Series.

Interior Epoxy (Eggshell): MPI #151 (Gloss Level 3).  
Basis-of-Design Products: SW; Pro Industrial Pre-Catalyzed Waterbased Epoxy, K45 Series.

Interior Epoxy (Semi-gloss): MPI #153 (Gloss Level 5).  
Basis-of-Design Products: SW; Pro Industrial Pre-Catalyzed Waterbased Semi-gloss Epoxy.

**PAINT SCHEDULE**

Interior Ferrous Metal Substrates: (2) coat system.

Latex Over Primer System:  
Prime Coat: Primer, alkyd, quick dry.  
Topcoat: Interior latex.  
Colors and Finish: Refer to Finish Legend.

Eggshell Pre-Catalyzed Epoxy System: Use at exposed steel columns.  
Prime Coat: Primer, rust inhibitive, water based.  
Intermediate Coat: Interior pre-catalyzed epoxy (eggshell) matching topcoat.  
Topcoat: Interior pre-catalyzed epoxy (eggshell) matching topcoat.  
Color: Refer to Finish Legend.

Interior Metal Doors and Frames Substrates: (3) coat system.  
Semi-gloss Epoxy System:  
Prime Coat: Primer, rust inhibitive, water based.  
Intermediate Coat: Interior pre-catalyzed epoxy (Semi-gloss) matching topcoat.  
Topcoat: Interior pre-catalyzed epoxy (Semi-gloss) matching topcoat.  
Color: Match color of wall in which door is located.

Interior Pipe Lines Substrates: (2) coat system.  
Prime Coat: Primer, rust inhibitive, water based.  
Topcoat: Interior acrylic matching primer.  
Colors and Finish: Refer to Finish Legend.

Interior Gypsum Board Substrates: (3) coat system.  
Flat Latex System:  
Prime Coat: Interior latex primer.  
Intermediate Coat: Interior latex (flat) matching topcoat.  
Topcoat: Interior latex (flat).  
Colors: Refer to Finish Legend.

Eggshell Latex System:  
Prime Coat: Interior latex primer.  
Intermediate Coat: Interior latex (eggshell) matching topcoat.  
Topcoat: Interior latex (eggshell).  
Colors: Refer to Finish Legend.

Eggshell Epoxy System: Use in commercial kitchen and toilet rooms.  
Prime Coat: Interior latex primer.  
Intermediate Coat: Interior pre-catalyzed epoxy (eggshell) matching topcoat.  
Topcoat: Interior pre-catalyzed epoxy (eggshell) matching topcoat.  
Colors: Refer to Finish Legend.

**SECTION 102800 - TOILET AND BATH ACCESSORIES**

General  
This Section includes the following:  
Public-use washroom accessories.  
Under-lavatory guards.

Submittals  
Product Data, Setting Drawings for all trades for cutouts, Quality Assurance and Warranty covering Fifteen (15) years for mirrors from date of Substantial Completion.  
Manufacturer: Bradley (Basis-of-Design).

Products  
Toilet Accessories - Refer to C-003 for types of accessories required.  
Manufacturer: Bradley (Basis-of-Design).

Trap/Wrap for Lavatories: Provide P-trap insulation for all lavatories; insulation kit with insulation for offset grid drain, white, Model CS60R by Broca Products Inc., Cincinnati, Ohio or equal as approved by Architect.

Keys: Provide universal keys for access to toilet accessory units requiring internal access for servicing. Provide minimum of six (6) keys to Owner's representative.

Execution  
Installation  
Install all accessories in accordance with manufacturer's printed instructions and as required to provide a firm and secure anchorage for each item.

Fabricate concealed mounting devices and fasteners for all accessories from the same materials as the accessories or galvanized steel. Finish exposed mounting devices and fasteners to match the accessories.

Install grab bars to withstand a downward load of at least 250 lbf (1112 N), complying with ASTM F 446.

Cleaning And Final Adjustments  
Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace damaged or defective items.  
Clean and polish all exposed surfaces strictly according to manufacturer's recommendations after removing temporary

**104413 FIRE PROTECTION SPECIALITIES SPECIFICATION**

General  
This section includes portable fire extinguishers and fire extinguisher cabinets.

Submittals  
Submit product data, shop drawings, and maintenance Data.

Products  
Multi-Purpose Dry Chemical Type Extinguisher: UL-rated, 2A:10B:C in enameled steel container, for Class A, Class B and Class C fires.  
Product: Model No. MP10 by Larsen or equal as approved by Architect.

Wet-Chemical Type: UL-rated, stainless-steel container; with pressure-indicating gage, 1.5 gal (6 liters), for Class K fires.  
Product: Model No. WC-6L by Larsen or equal as approved by Architect.

Mounting Brackets: Manufacturer's standard steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated, with plated or black baked-enamel finish.  
Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect. Identify bracket-mounted fire extinguishers with the words "FIRE EXTINGUISHER" in red letter decals applied to mounting surface.

Fire Extinguisher Cabinets: Fully-recessed type; Larsen's Architectural Series Vertical Duo Door; stainless steel #4 finish; 5/16 inch (8 mm) flat trim; Model SS-2409-R2 or Model FS-SS-2409-R2 at fire rated walls or equal as approved by Architect.

Installation  
Adjust fire protection cabinet doors to operate easily without binding. Verify that integral locking devices operate properly. Clean all surfaces as recommended by manufacturer. Touch up marred finishes, or replace products that cannot be restored to factory-finished appearance.

**108200 - EQUIPMENT METAL SCREEN WALL**

General  
This section includes fixed, extruded-aluminum louvered screen for equipment.

Submittals  
Submit product data, finish samples, shop drawings, and quality/performance reports.

Products  
Horizontal Blade Louvered Equipment Screen:  
Architectural Louvers Co. (Harray, LLC); Model V4YH or Approved Equal.  
4" Deep, sight-proof blade configuration.  
Mitered outside corners and hidden mullion joints at section breaks.  
Concealed frame.  
Finish: Kynar 500 organic coating. Custom color to match lower band of adjacent dome fabric.

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PROJECT  
**West Michigan  
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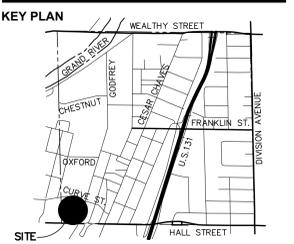


PROFESSIONAL SEAL



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#	DESCRIPTION	DATE
1	DESIGN & DEVELOPMENT	11/13/2024
2	CONST. DOCUMENTS - PROGRESS REVIEW	12/03/2024
3	PROGRESS REVIEW #2	12/20/2024
4	BID SET	2/7/2025



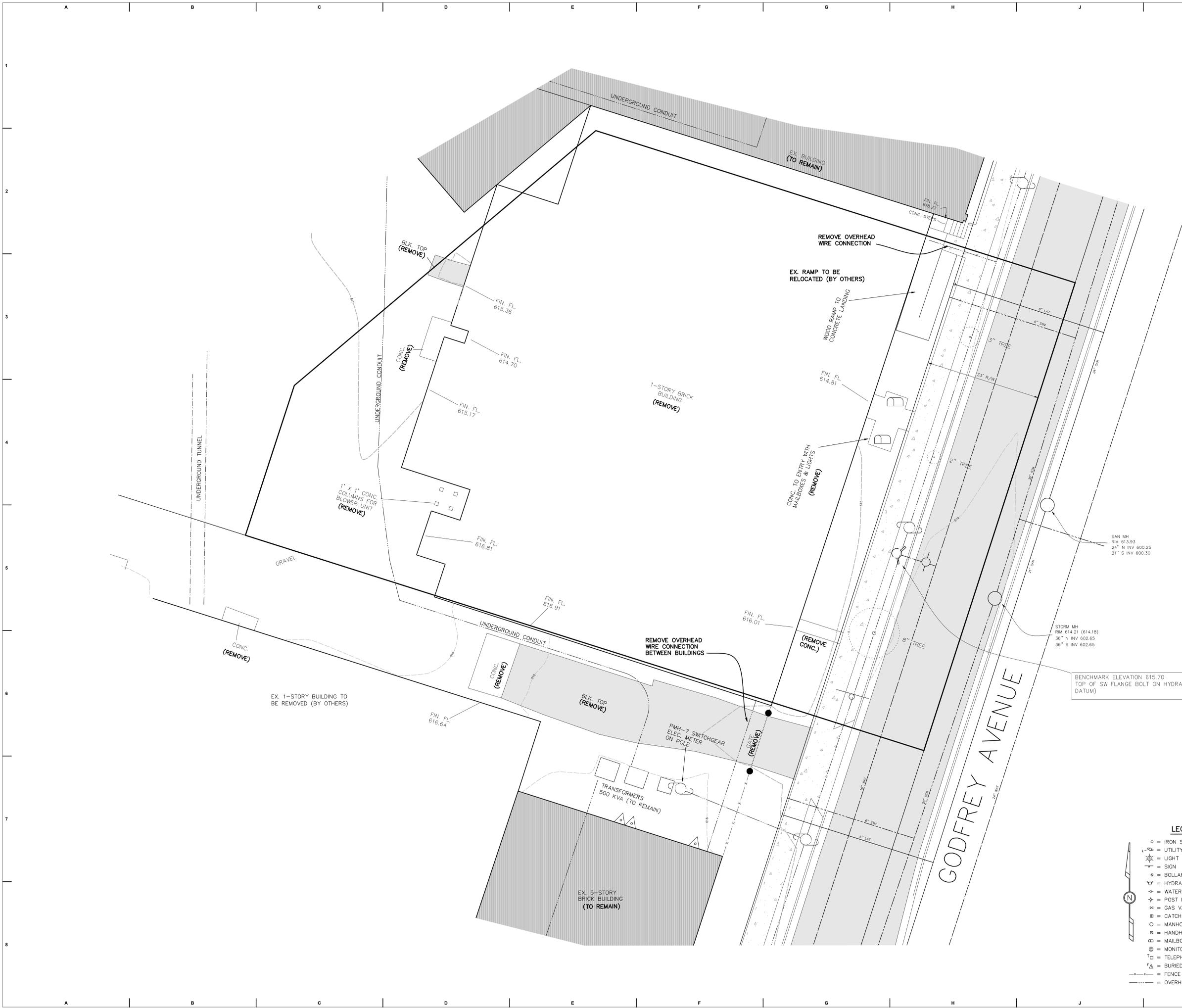
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**Existing  
Conditions  
& Demolition Plan**

PROJECT #  
2024-010.00

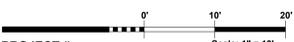
SHEET #

**C100**

241510E



- LEGEND**
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  - ⊕ = UTILITY POLE & GUY WIRE
  - ⊙ = LIGHT POLE
  - ⊙ = SIGN
  - ⊙ = BOLLARD
  - ⊙ = HYDRANT
  - ⊙ = WATERMAIN VALVE
  - ⊙ = POST INDICATOR VALVE
  - ⊙ = GAS VALVE
  - ⊙ = CATCH BASIN
  - = MANHOLE
  - ⊙ = HANDHOLE
  - ⊙ = MAILBOX
  - ⊙ = MONITOR WELL
  - ⊙ = TELEPHONE BOX
  - ⊙ = BURIED FIBER OPTIC MARKER
  - = FENCE LINE
  - = OVERHEAD WIRES



PROJECT  
**West Michigan  
Hispanic  
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Grand Rapids, MI 49507

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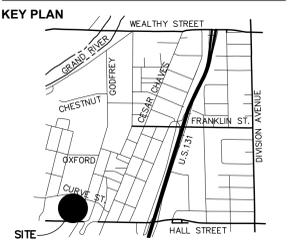


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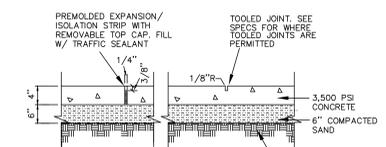
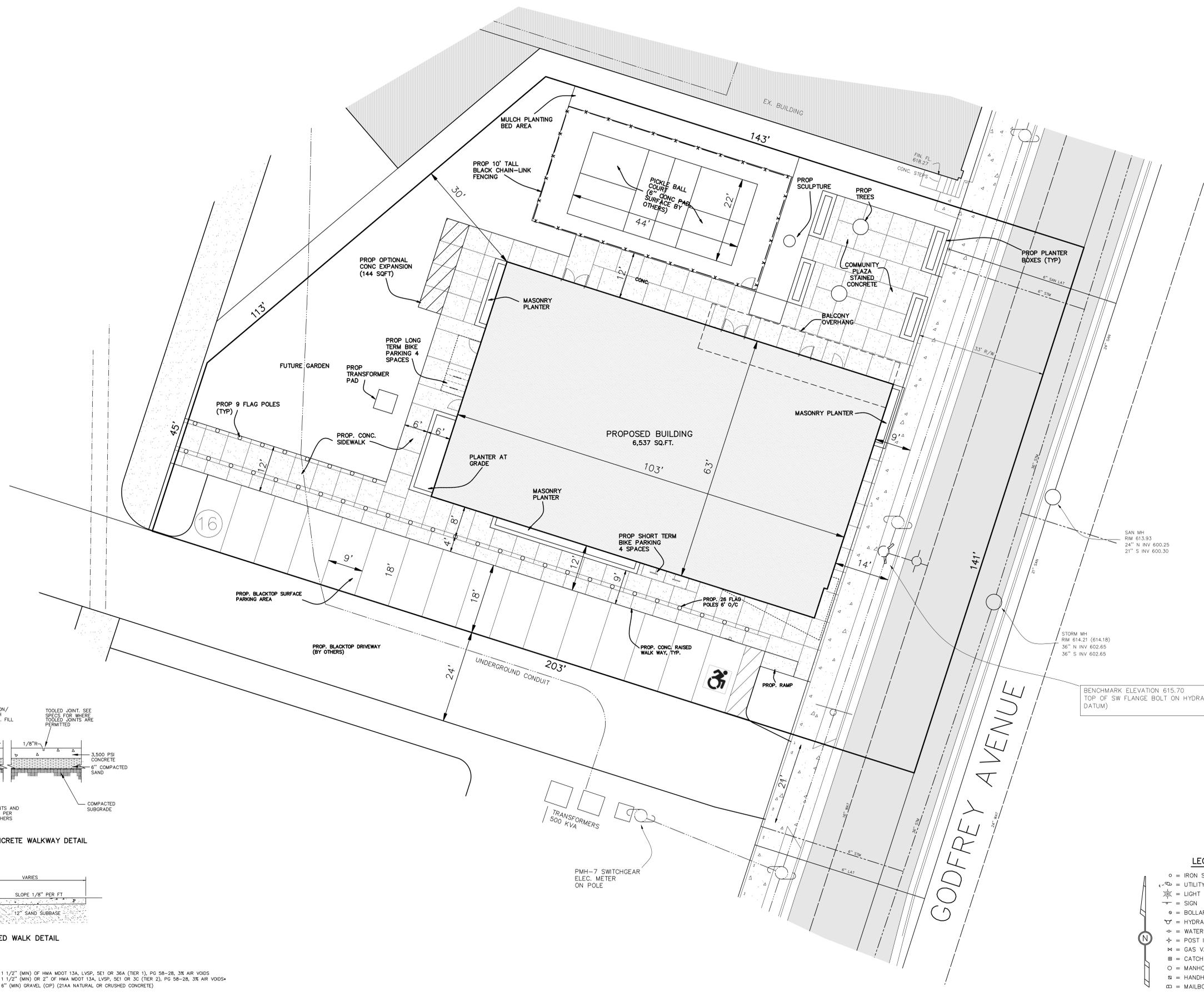
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CONST. DOCUMENTS - PROGRESS REVIEW	12/03/2024
PROGRESS REVIEW #2	12/20/2024
BID SET	2/7/2025



SHEET TITLE  
Site  
Development  
Plan

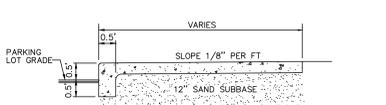
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SHEET #  
**C200**

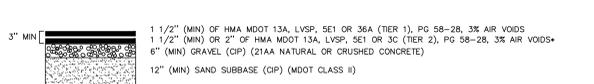


NOTES:  
LOCATE CONTROL JOINTS AND EXPANSION JOINTS AS PER LAYOUT PLANS BY OTHERS

4" CONCRETE WALKWAY DETAIL



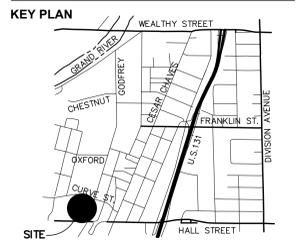
RAISED WALK DETAIL



LIGHT DUTY/Private Roads PAVING CROSS SECTION

- LEGEND**
- = IRON STAKE FOUND
  - ⊕ = UTILITY POLE & GUY WIRE
  - ⊙ = LIGHT POLE
  - ⊙ = SIGN
  - ⊙ = BOLLARD
  - ⊕ = HYDRANT
  - ⊕ = WATERMAIN VALVE
  - ⊕ = POST INDICATOR VALVE
  - ⊕ = GAS VALVE
  - ⊕ = CATCH BASIN
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  - ⊕ = MAILBOX
  - ⊕ = MONITOR WELL
  - ⊕ = TELEPHONE BOX
  - ⊕ = BURIED FIBER OPTIC MARKER
  - = FENCE LINE
  - = OVERHEAD WIRES

DESIGN & DEVELOPMENT	11/13/2024
CONST. DOCUMENTS - PROGRESS REVIEW	12/03/2024
PROGRESS REVIEW #2	12/20/2024
BID SET	2/7/2025



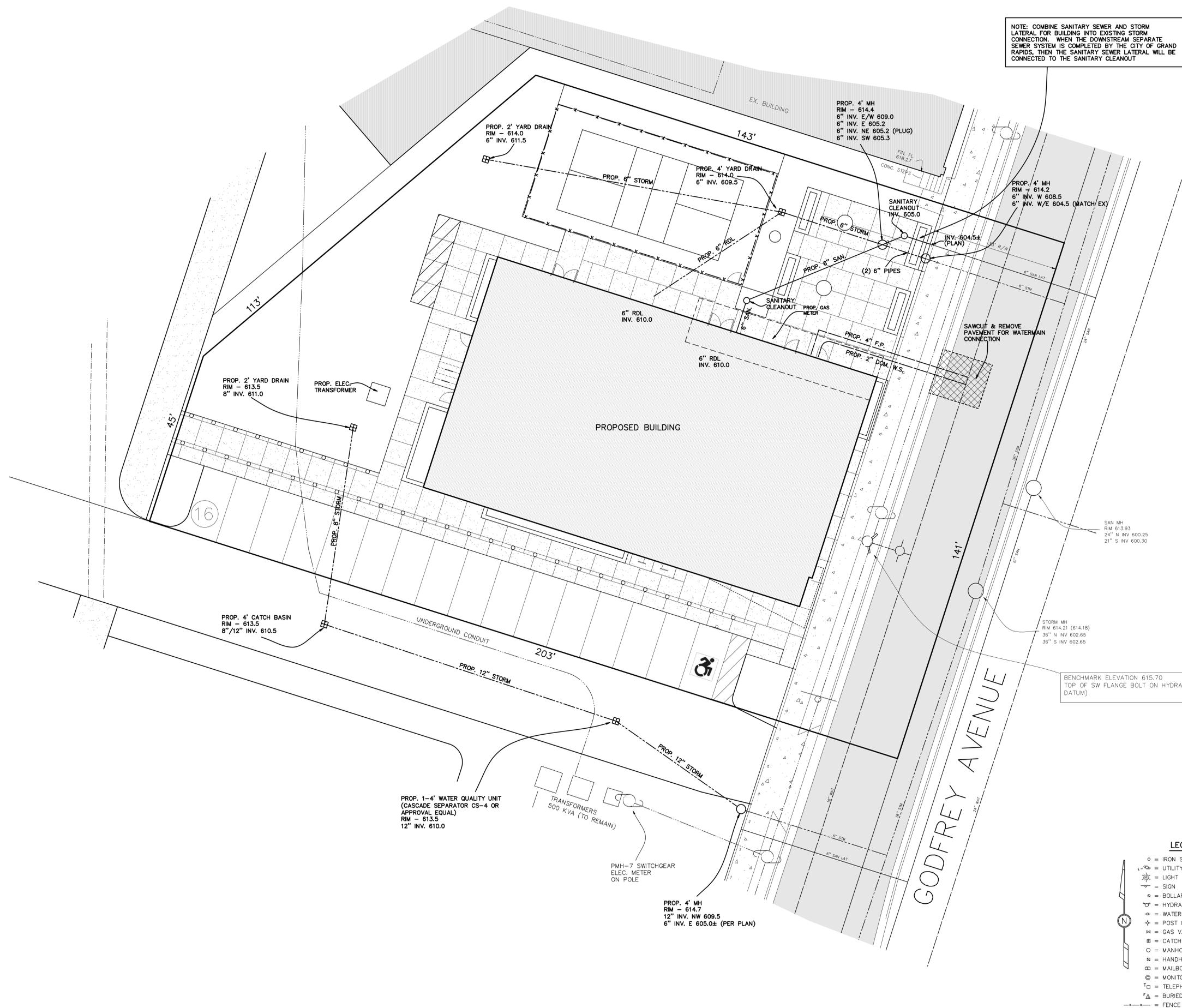
SHEET TITLE  
**Site  
 Utility  
 Plan**

PROJECT #  
**2024-010.00**

SHEET #  
**C201**

Scale: 1" = 10'  
 30x42

NOTE: COMBINE SANITARY SEWER AND STORM LATERAL FOR BUILDING INTO EXISTING STORM CONNECTION. WHEN THE DOWNSTREAM SEPARATE SEWER SYSTEM IS COMPLETED BY THE CITY OF GRAND RAPIDS, THEN THE SANITARY SEWER LATERAL WILL BE CONNECTED TO THE SANITARY CLEANOUT



- LEGEND
- o = IRON STAKE FOUND
  - + = UTILITY POLE & GUY WIRE
  - ☀ = LIGHT POLE
  - ⊥ = SIGN
  - o = BOLLARD
  - ⌵ = HYDRANT
  - ⊕ = WATERMAIN VALVE
  - ⊕ = POST INDICATOR VALVE
  - ⊕ = GAS VALVE
  - ☐ = CATCH BASIN
  - o = MANHOLE
  - = HANDHOLE
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  - ⊞ = TELEPHONE BOX
  - ⊞ = BURIED FIBER OPTIC MARKER
  - = FENCE LINE
  - - - = OVERHEAD WIRES

PROJECT

## West Michigan Hispanic Chamber of Commerce- HQ

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Grand Rapids, MI 49507

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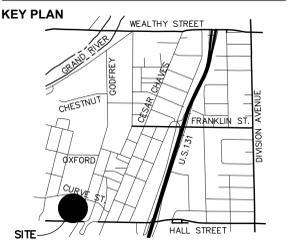


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1	DESIGN & DEVELOPMENT	11/13/2024
2	CONST. DOCUMENTS - PROGRESS REVIEW	12/03/2024
3	PROGRESS REVIEW #2	12/20/2024
4	BID SET	2/7/2025

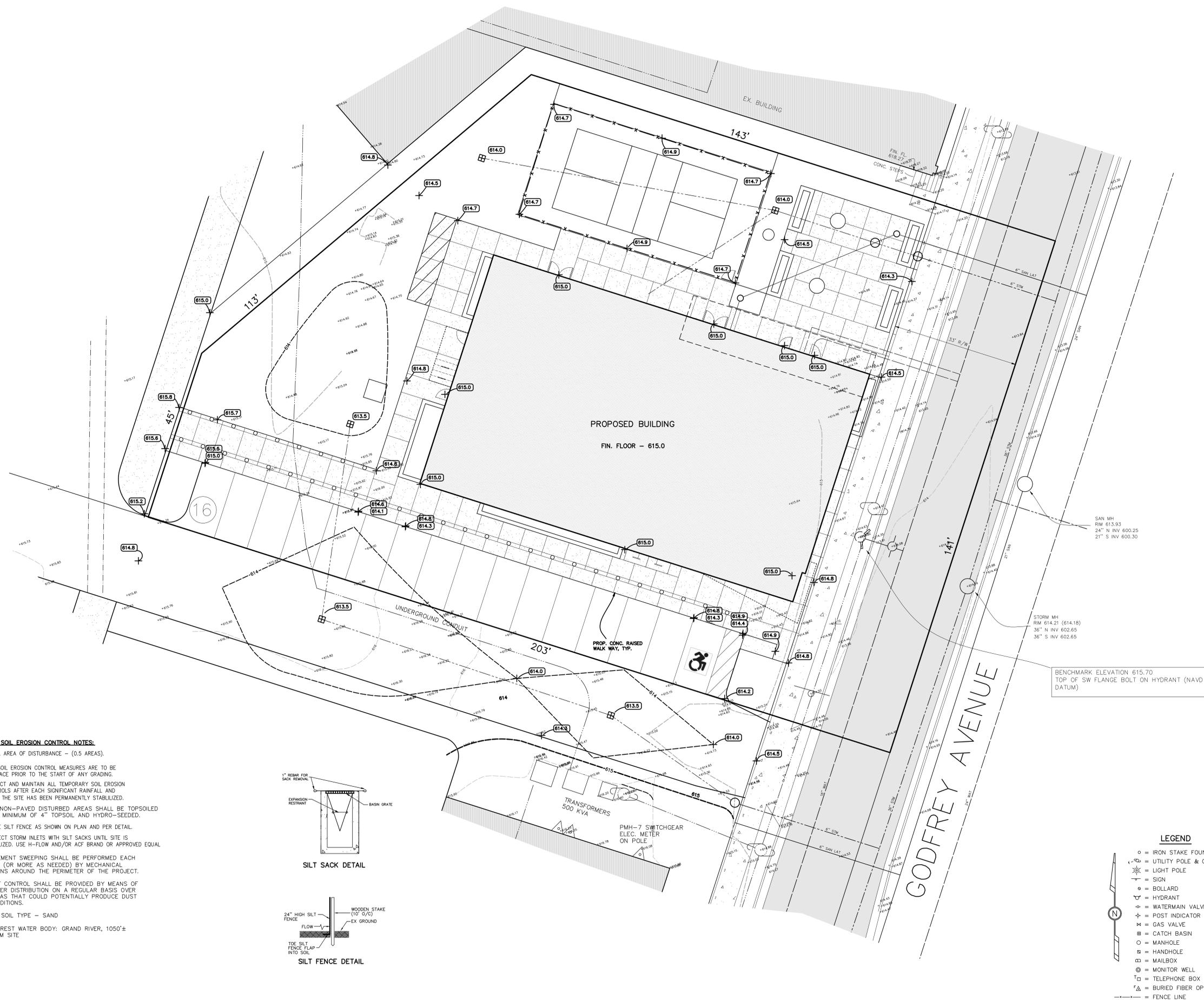


SHEET TITLE  
Site  
Grading  
Plan

PROJECT #  
2024-010.00

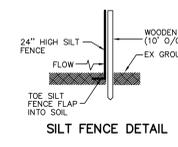
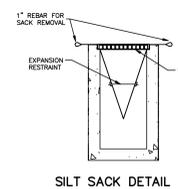
SHEET #  
**C202**

Scale: 1" = 10'



**GENERAL SOIL EROSION CONTROL NOTES:**

- TOTAL AREA OF DISTURBANCE - (0.5 AREAS).
- ALL SOIL EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO THE START OF ANY GRADING.
- INSPECT AND MAINTAIN ALL TEMPORARY SOIL EROSION CONTROLS AFTER EACH SIGNIFICANT RAINFALL AND UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED.
- ALL NON-PAVED DISTURBED AREAS SHALL BE TOPSOILED WITH MINIMUM OF 4" TOPSOIL AND HYDRO-SEEDED.
- PLACE SILT FENCE AS SHOWN ON PLAN AND PER DETAIL.
- PROTECT STORM INLETS WITH SILT SACKS UNTIL SITE IS STABILIZED. USE H-FLOW AND/OR ACF BRAND OR APPROVED EQUAL.
- PAVEMENT SWEEPING SHALL BE PERFORMED EACH DAY (OR MORE AS NEEDED) BY MECHANICAL MEANS AROUND THE PERIMETER OF THE PROJECT.
- DUST CONTROL SHALL BE PROVIDED BY MEANS OF WATER DISTRIBUTION ON A REGULAR BASIS OVER AREAS THAT COULD POTENTIALLY PRODUCE DUST CONDITIONS.
- SITE SOIL TYPE - SAND
- NEAREST WATER BODY: GRAND RIVER, 1050'± FROM SITE



**LEGEND**

- = IRON STAKE FOUND
- ⊕ = UTILITY POLE & GUY WIRE
- ⊙ = LIGHT POLE
- ⊙ = SIGN
- ⊙ = BOLLARD
- ⊙ = HYDRANT
- ⊙ = WATERMAIN VALVE
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- ⊙ = BURIED FIBER OPTIC MARKER
- = FENCE LINE
- = OVERHEAD WIRES

PROJECT  
**West Michigan  
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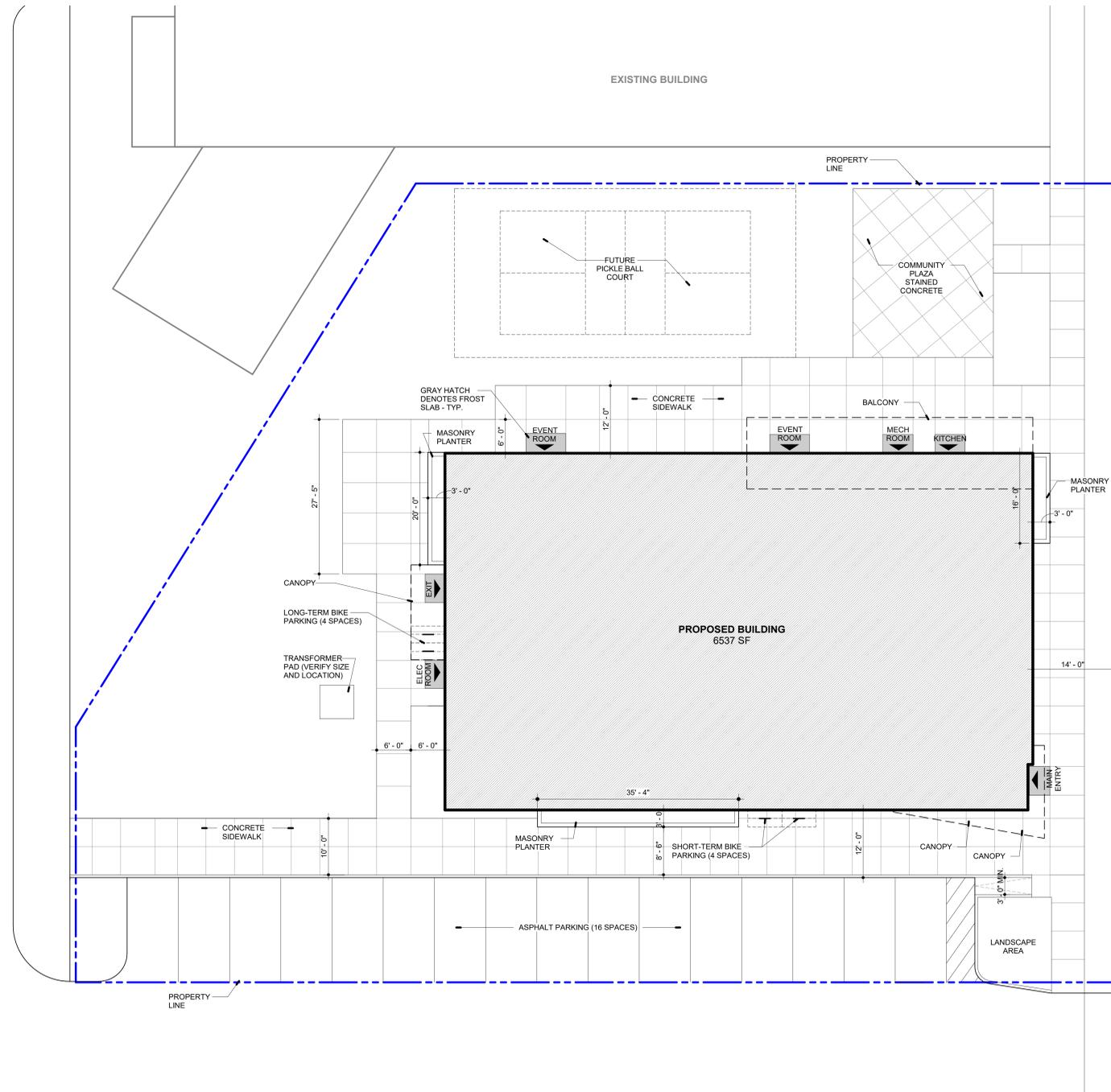
#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

KEY PLAN

SHEET TITLE  
Architectural Site Plan

PROJECT #  
2024-010.00

SHEET #  
**A-001**



**A8** Site Plan  
A-001 SCALE: 1" = 10'-0"

GODFREY AVENUE

PROJECT  
**West Michigan  
Hispanic  
Chamber of  
Commerce -  
HQ**  
1111 Godfrey Ave. SW  
Grand Rapids, MI 49507

### FLOOR PLAN GENERAL NOTES

- A. FLOOR PLAN NOTES APPLY TO ALL FLOOR PLAN SHEETS.
- B. INTERIOR PARTITIONS SHOWN WITH CONCRETE HATCH PATTERN ARE 8 INCH THICK PRECAST CONCRETE PANELS, FULL HEIGHT TO BOTTOM OF STRUCTURAL ROOF DECK, UNLESS NOTED OTHERWISE.
- C. ALL FIRE RATED PARTITIONS TO EXTEND FULL HEIGHT TO BOTTOM OF STRUCTURAL DECK WITH 3" ACOUSTICAL INSULATION (Z). NON FIRE RATED PARTITIONS TO EXTEND ONE LAYER TO BOTTOM OF STRUCTURAL DECK WITH 9" ACOUSTICAL INSULATION (W). UNLESS NOTED OTHERWISE. REFER TO SHEET A-601 FOR PARTITION TYPES AND DETAILS.
- D. PROVISIONS SHALL BE MADE AT FULL HEIGHT NONBEARING PARTITIONS FOR 1-INCH VERTICAL MOVEMENT OF BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO PARTITIONS. FILL IRREGULARITIES BETWEEN TOP OF PARTITIONS AND DECK ABOVE WITH FIRESTOPPING SYSTEM AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE PARTITIONS.
- E. SEAL PENETRATIONS THROUGH FIRE-RESISTANCE-RATED CONSTRUCTIONS WITH PENETRATION FIRESTOPPING MATERIAL AS REQUIRED TO ACHIEVE RESPECTIVE FIRE-RESISTIVE RATING AND SMOKE STOPPAGE.
- F. FURNISH AND INSTALL FIRE-RETARDANT-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN STEEL STUD PARTITIONS FOR PROPER ANCHORAGE OF PARTITIONS ATTACHED ITEMS, I.E. TOILET ACCESSORIES, TOILET PARTITIONS, CABINETS, SHELVINGS, FURNISHING WALL-MOUNTED FIXTURES EQUIPMENT AND SPECIALTIES, MARKERBOARDS, TACKBOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, ETC.
- G. GYPSUM BOARD AND PLASTER SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE INDICATED ON DRAWINGS AND/OR AS DESCRIBED IN THE SPECIFICATIONS.
- H. INCLUDE OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER FURNISHED, OWNER EXISTING AND CONTRACTOR INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND COORDINATE WITH OWNER TO ACCOMMODATE THESE ITEMS.
- I. COORDINATE MECHANICAL CHASE SIZES WITH MECHANICAL CONTRACTOR.
- J. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS' SIZE AND LOCATION OF EQUIPMENT PADS INDICATED ON FLOOR PLANS.

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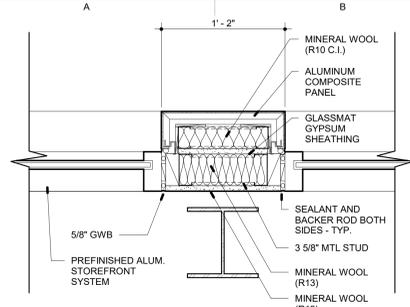
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KEY PLAN

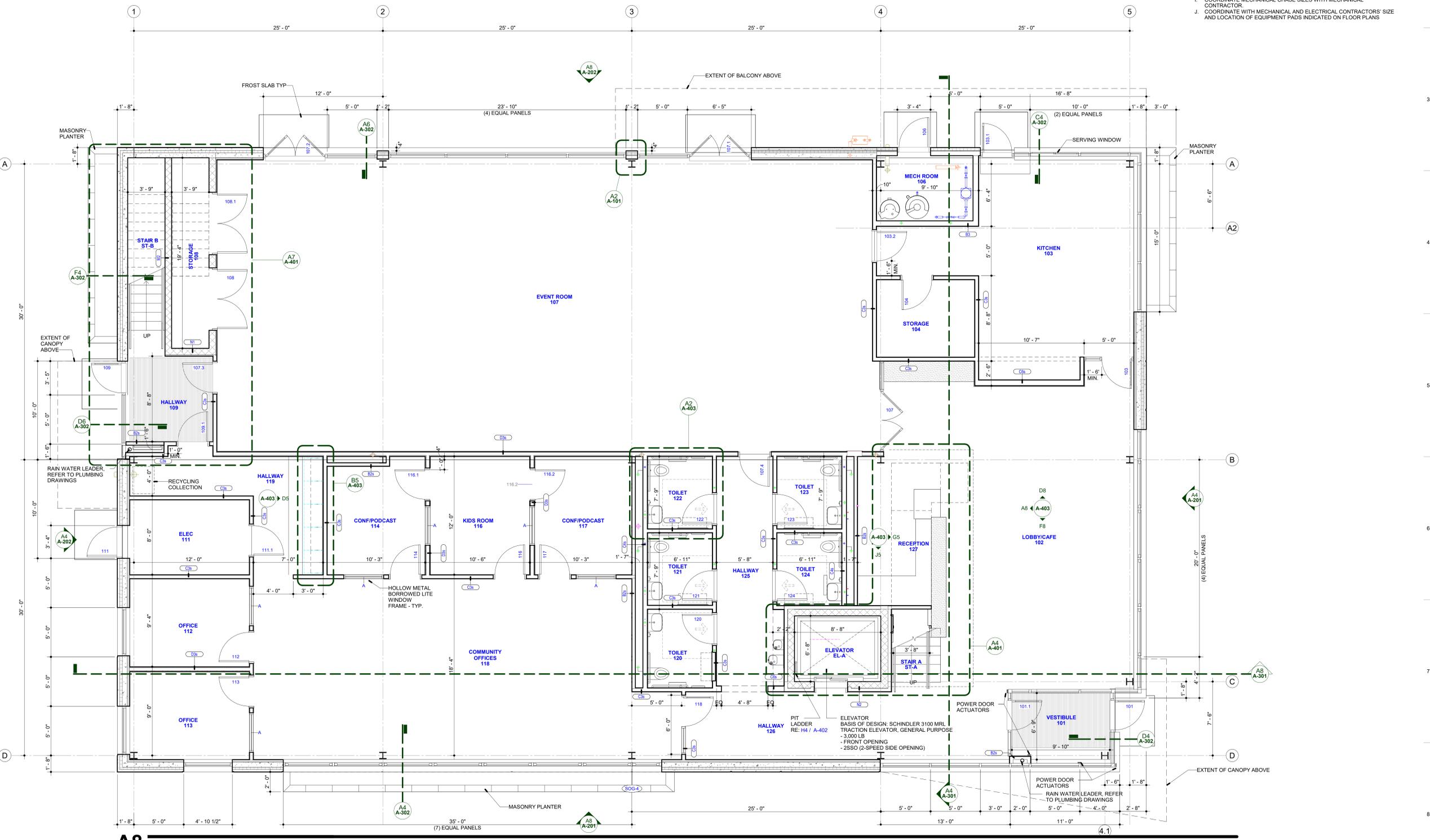
SHEET TITLE  
Floor Plan - Level 1

PROJECT #  
2024-010.00

SHEET #  
**A-101**



**A2 ENLARGED PLAN - TYP. STOREFRONT JAMB @ ACP PANELS**  
A-101 SCALE: 1 1/2" = 1'-0"



**A8 Floor Plan - Level 1**  
A-101 SCALE: 1/4" = 1'-0"

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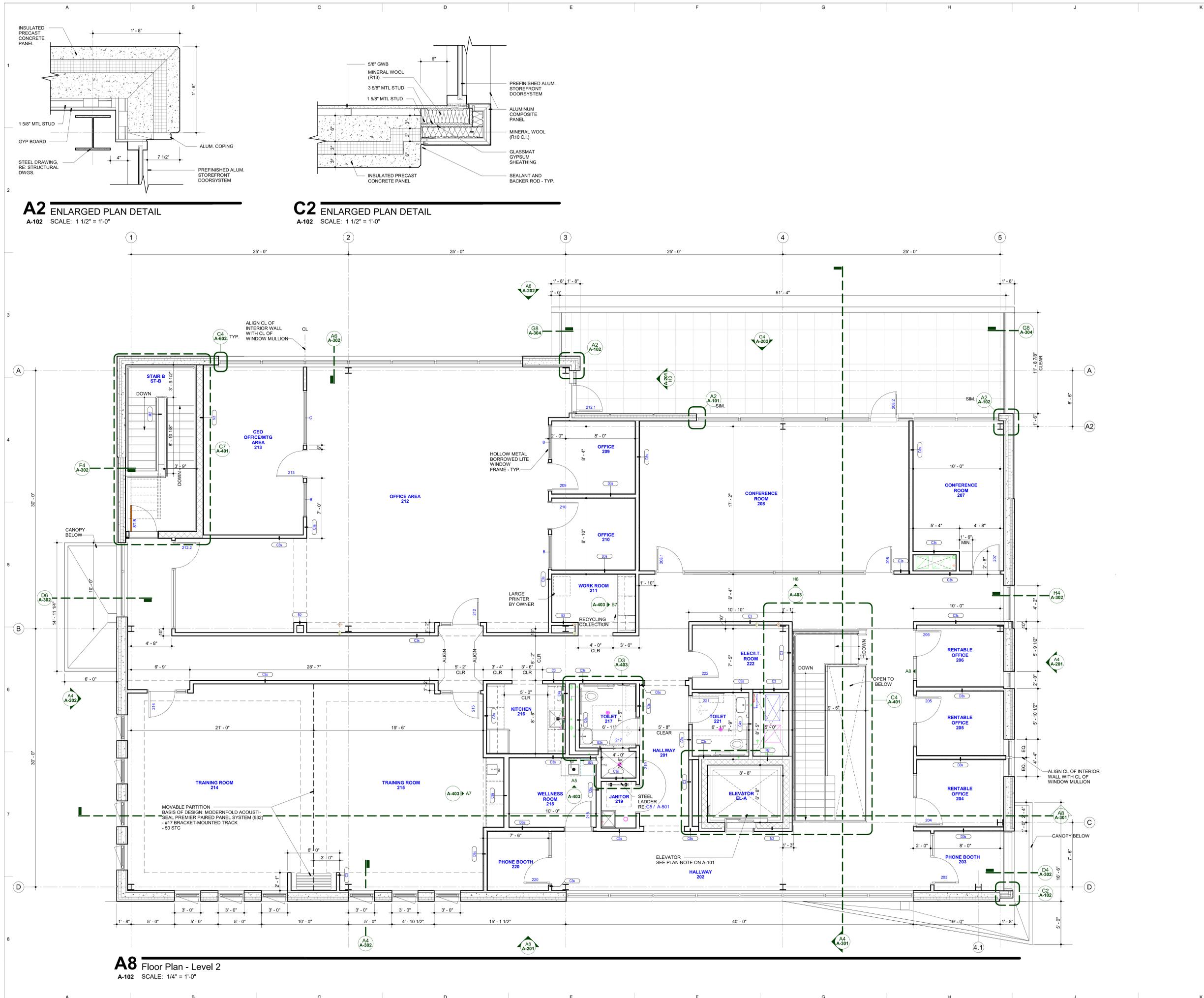
#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

KEY PLAN

SHEET TITLE  
Floor Plan - Level 2

PROJECT #  
2024-010.00

SHEET #  
**A-102**



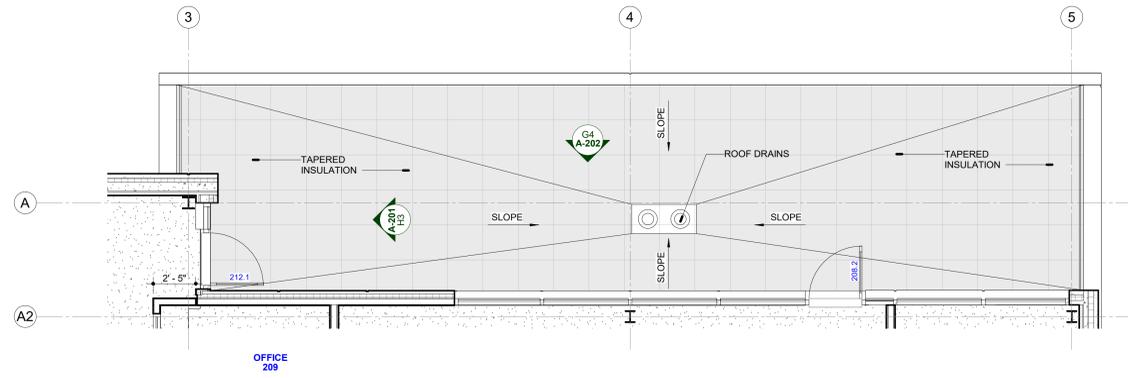
**A2** ENLARGED PLAN DETAIL  
A-102 SCALE: 1 1/2" = 1'-0"

**C2** ENLARGED PLAN DETAIL  
A-102 SCALE: 1 1/2" = 1'-0"

**A8** Floor Plan - Level 2  
A-102 SCALE: 1/4" = 1'-0"

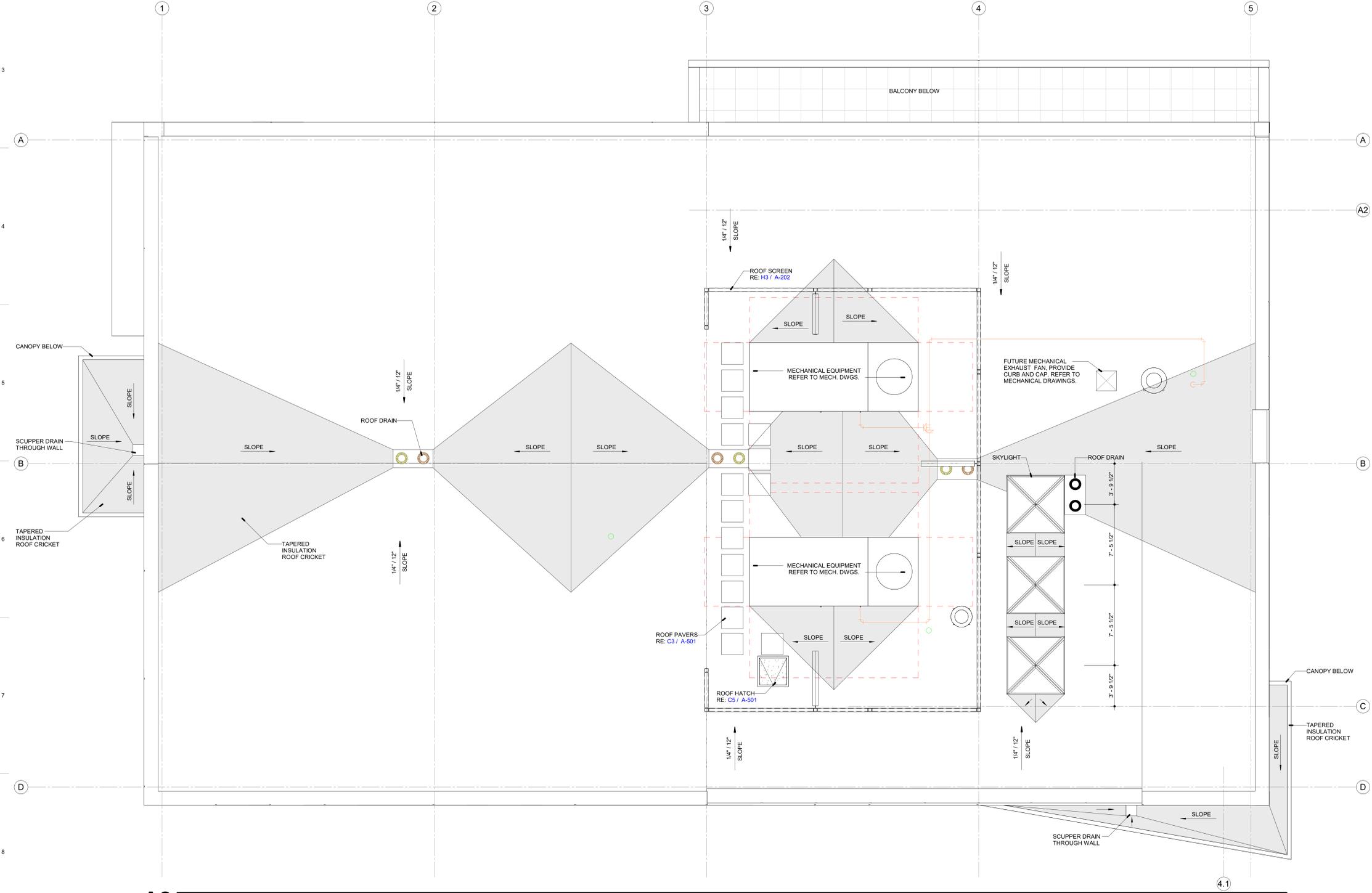
### ROOF PLAN GENERAL NOTES

- A. ROOF PLAN GENERAL NOTES APPLY TO ALL ROOF PLANS & SHEETS.
- B. ALL ROOFTOP EQUIPMENT TO BE LOCATED 10'-0" MIN AWAY FROM ROOF EDGE.
- C. PROVIDE POSITIVE SLOPE TO DRAIN.



### E2 Balcony Plan (Under Pavers)

A-103 SCALE: 1/4" = 1'-0"



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PROFESSIONAL SEAL

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#	DESCRIPTION	DATE
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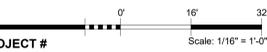
KEY PLAN

SHEET TITLE  
 Roof Plan

PROJECT #  
 2024-010.00

SHEET #

**A-103**



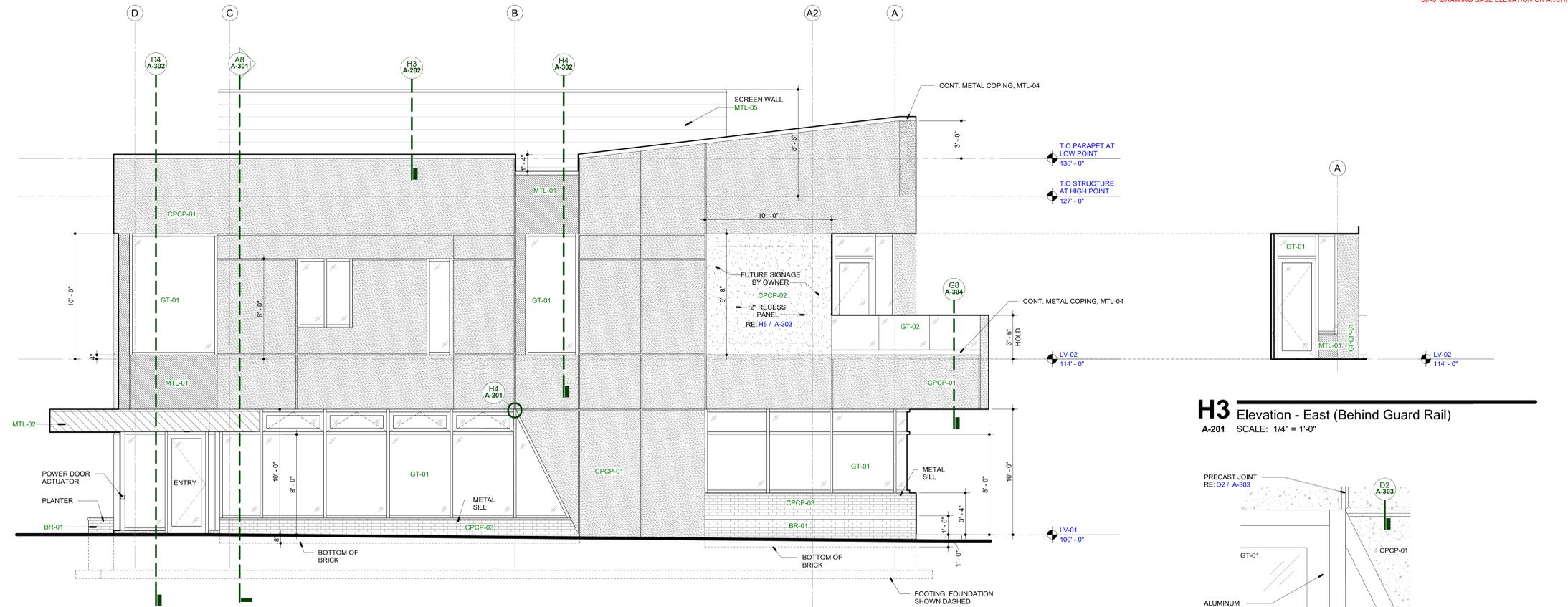
Autodesk Docs://West Mich Hispanic Chamber of Commerce/WHCCoc-Arch/INT 2/11/2025 1:41:35 PM

**A8** Roof Plan  
 A-103 SCALE: 1/4" = 1'-0"

#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

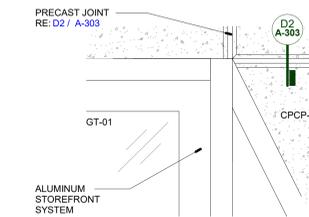
GRADE CONVERSION

100'-0" DRAWING BASE ELEVATION ON ARCHITECTURAL = xxx'. SEE SHEET C-200.

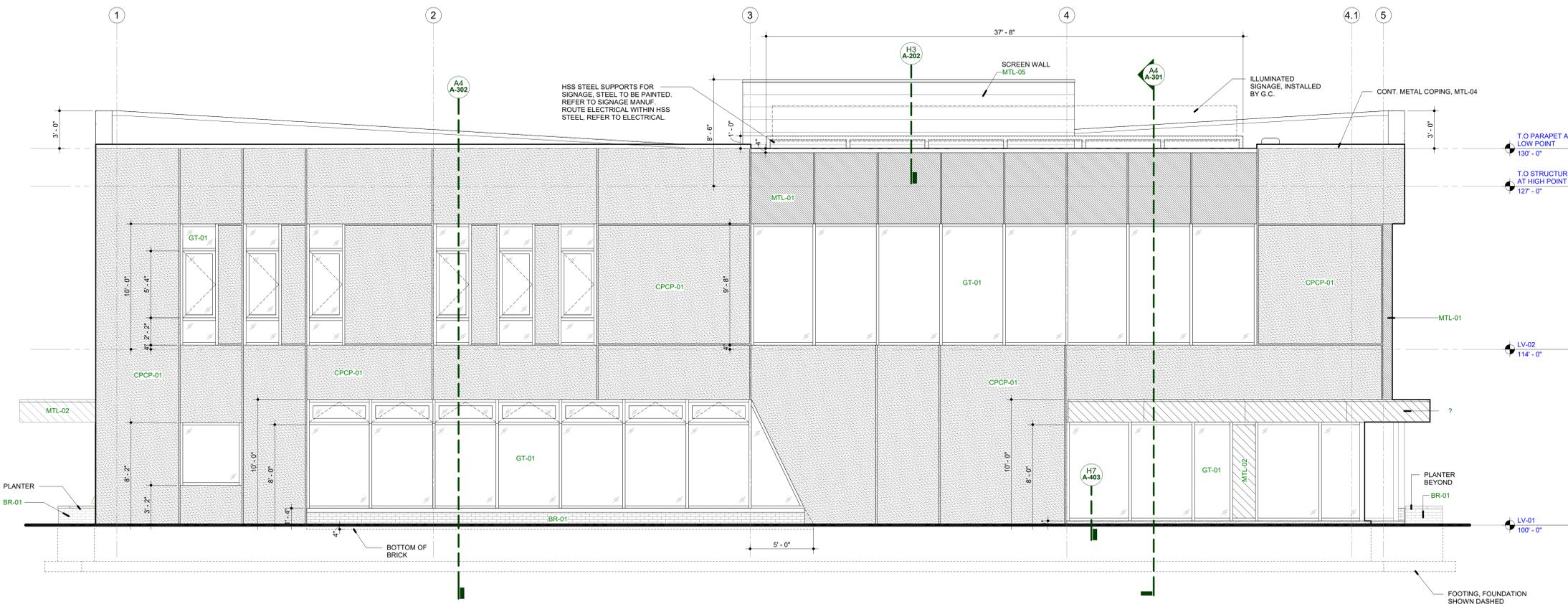


**A4** Elevation - East  
A-201 SCALE: 1/4" = 1'-0"

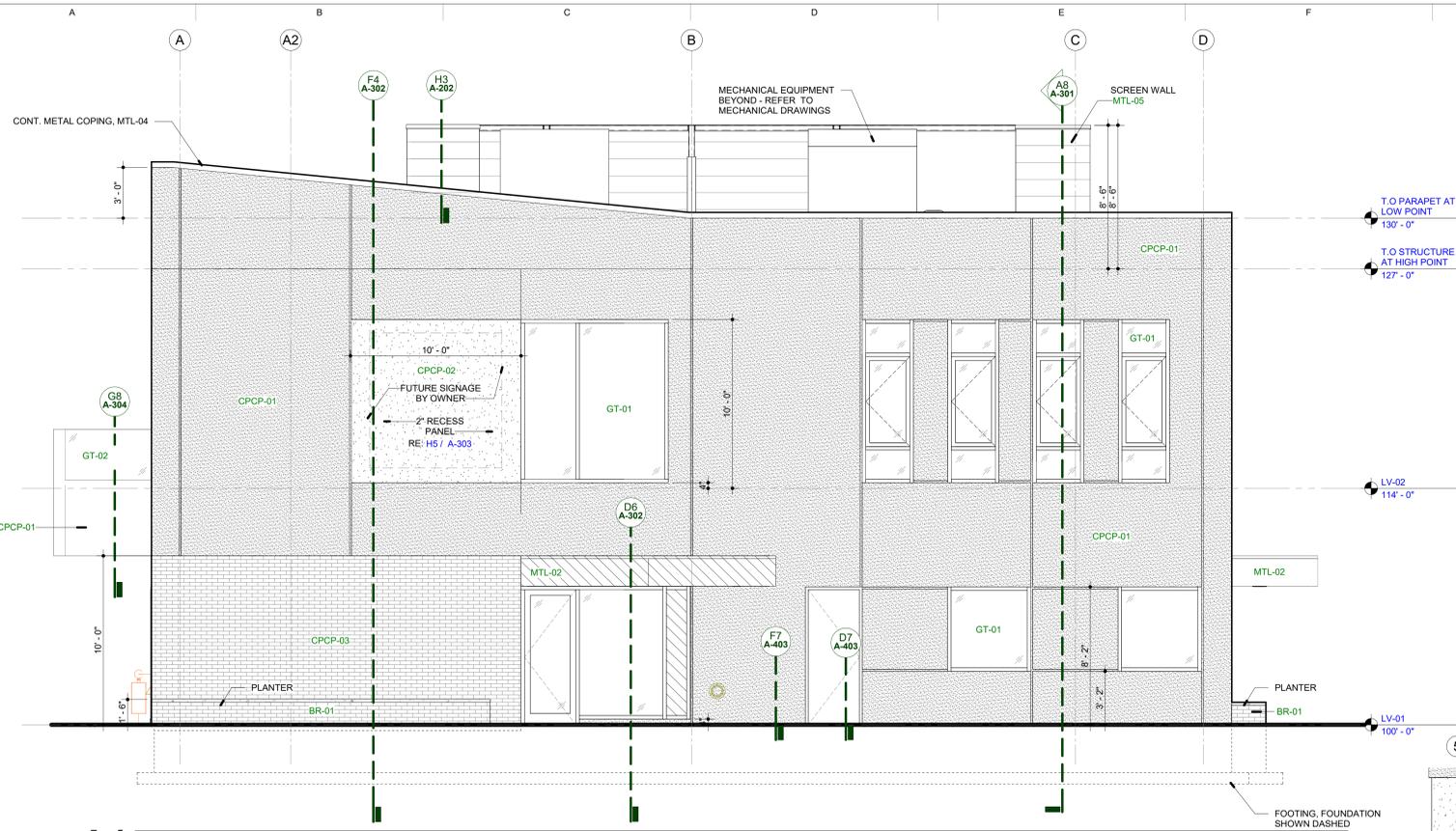
**H3** Elevation - East (Behind Guard Rail)  
A-201 SCALE: 1/4" = 1'-0"



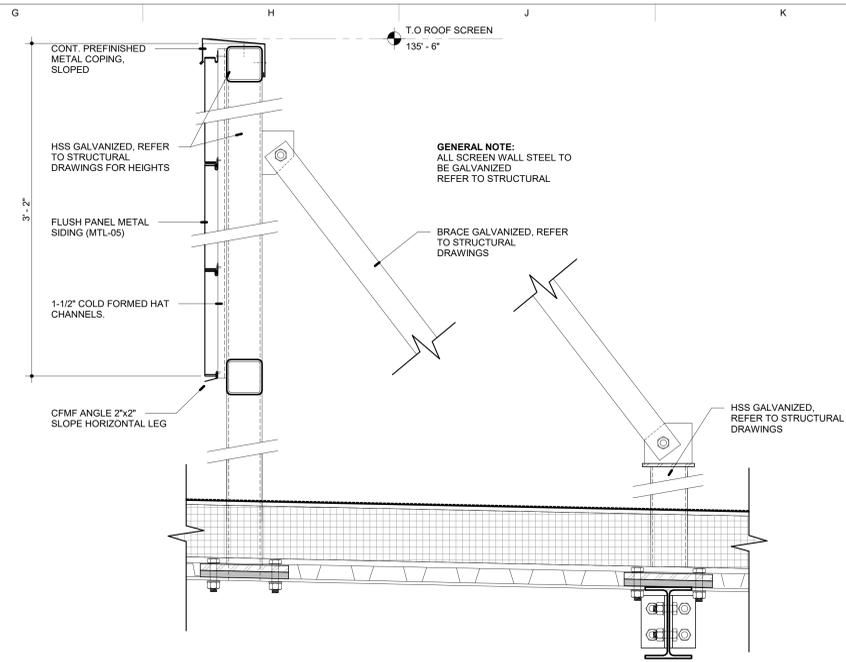
**H4** Enlarged Elevation  
A-201 SCALE: 1 1/2" = 1'-0"



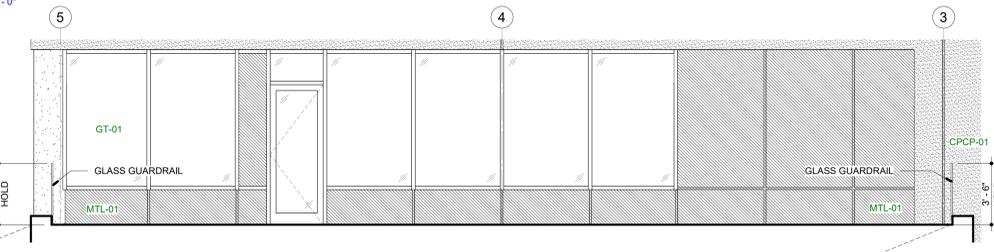
**A8** Elevation - South  
A-201 SCALE: 1/4" = 1'-0"



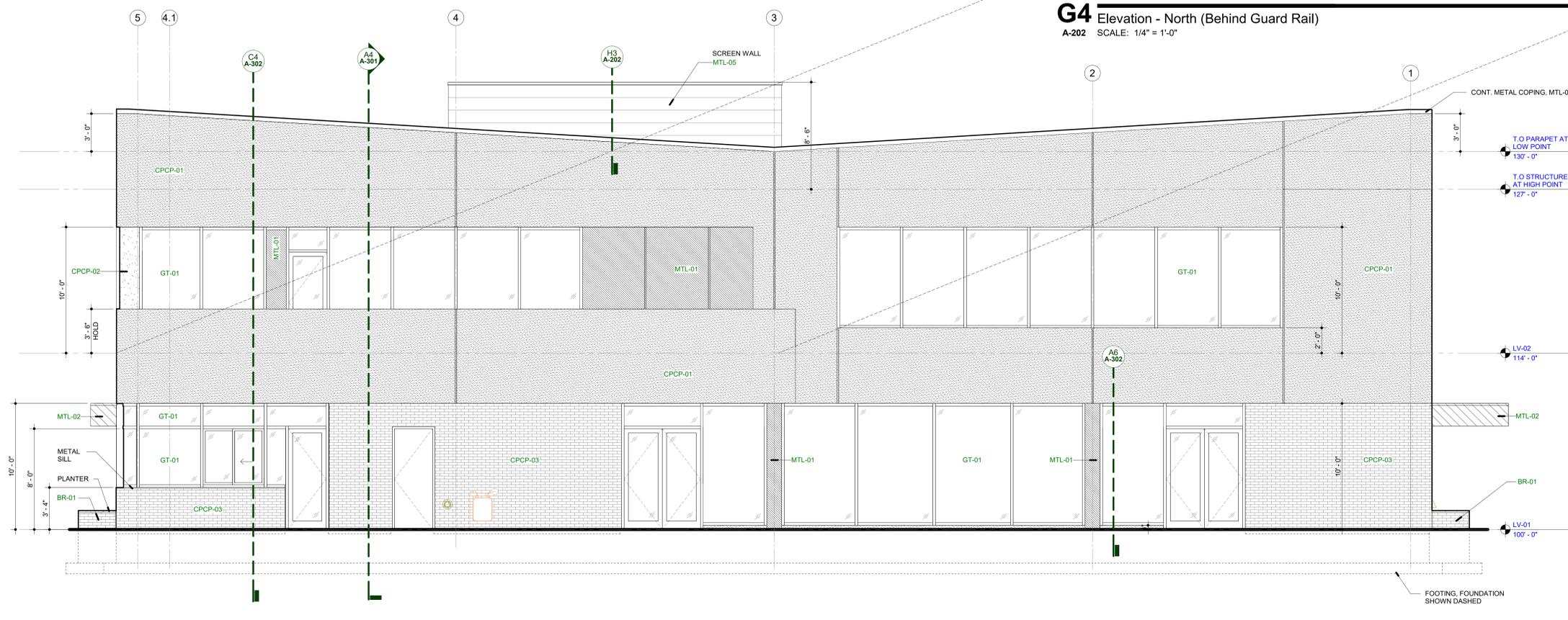
**A4** Elevation - West  
A-202 SCALE: 1/4" = 1'-0"



**H3** SECTION - TYP. MECHANICAL SCREEN  
A-202 SCALE: 1 1/2" = 1'-0"



**G4** Elevation - North (Behind Guard Rail)  
A-202 SCALE: 1/4" = 1'-0"

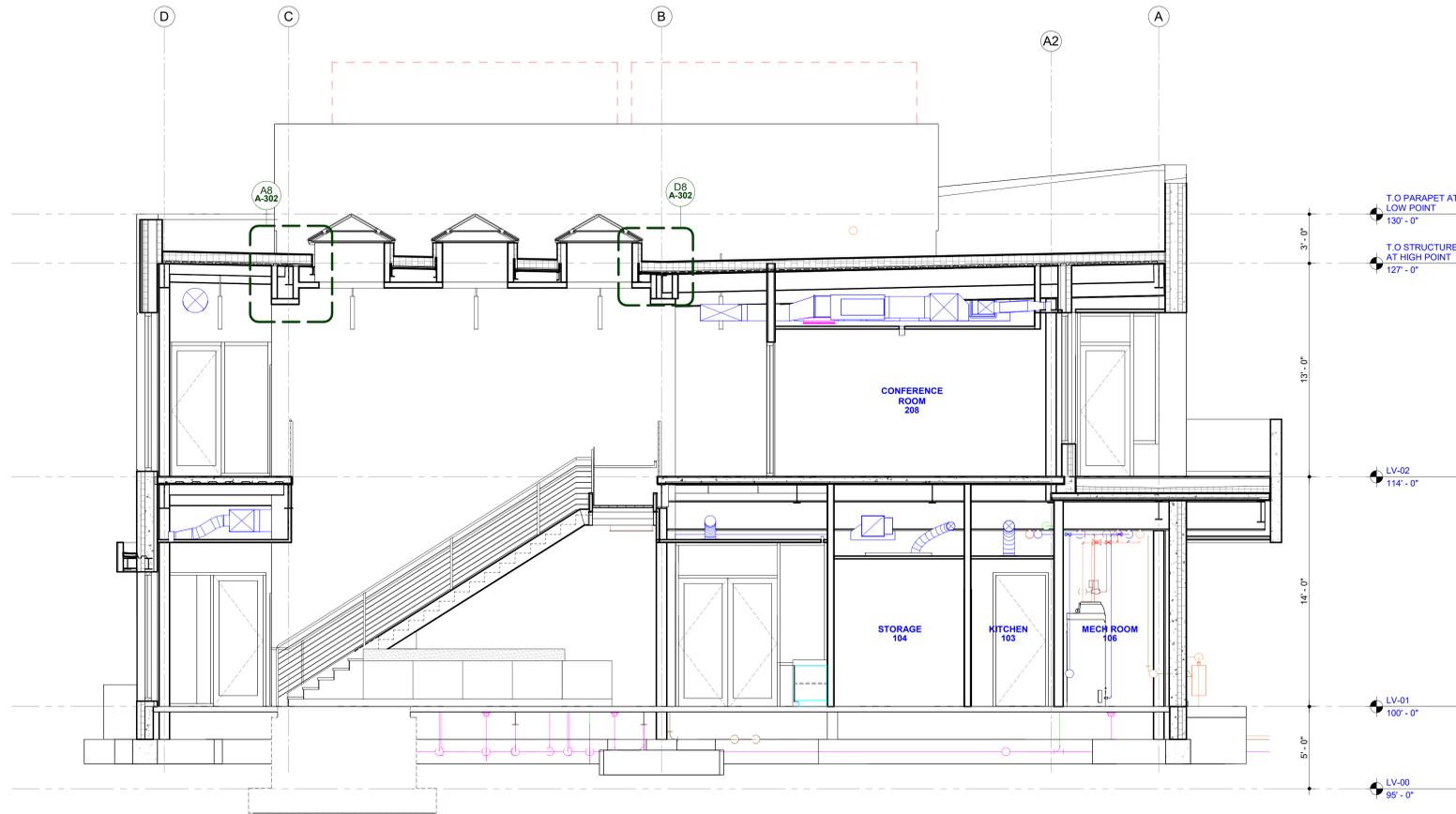


**A8** Elevation - North  
A-202 SCALE: 1/4" = 1'-0"

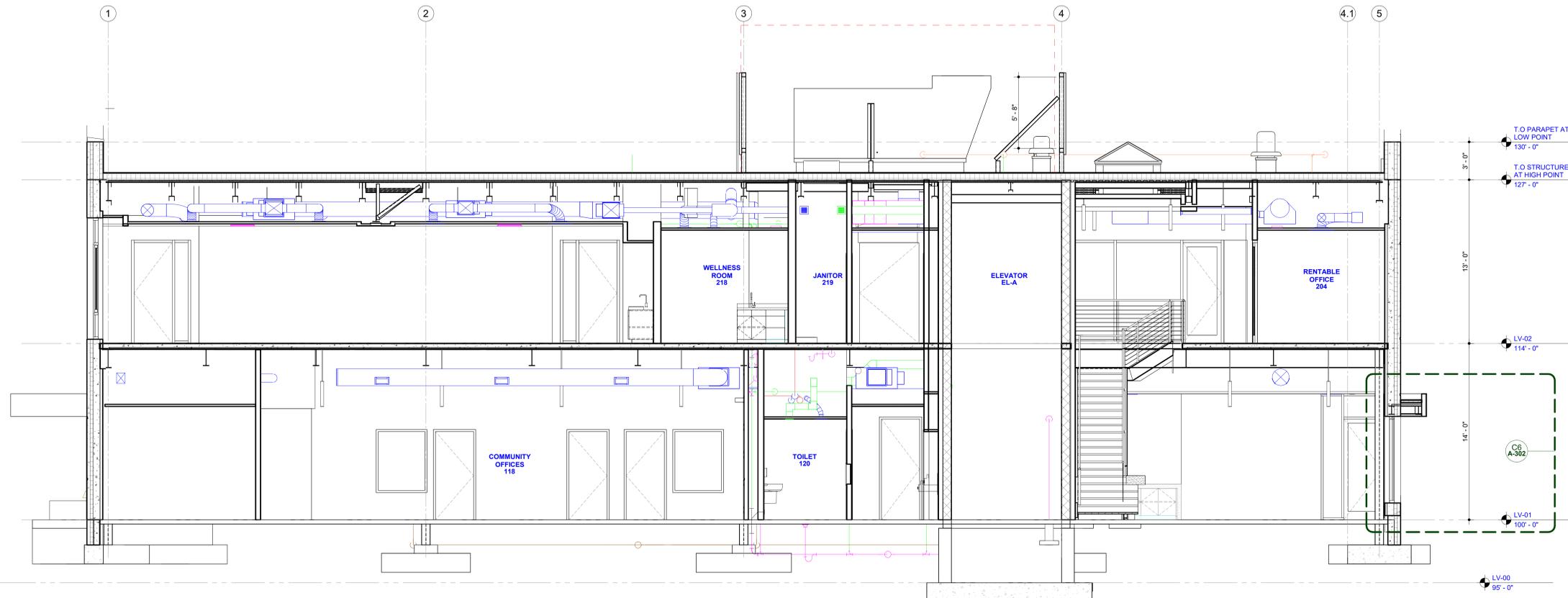
#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

GRADE CONVERSION

100'-0" DRAWING BASE ELEVATION ON ARCHITECTURAL = xxx', SEE SHEET C-200.

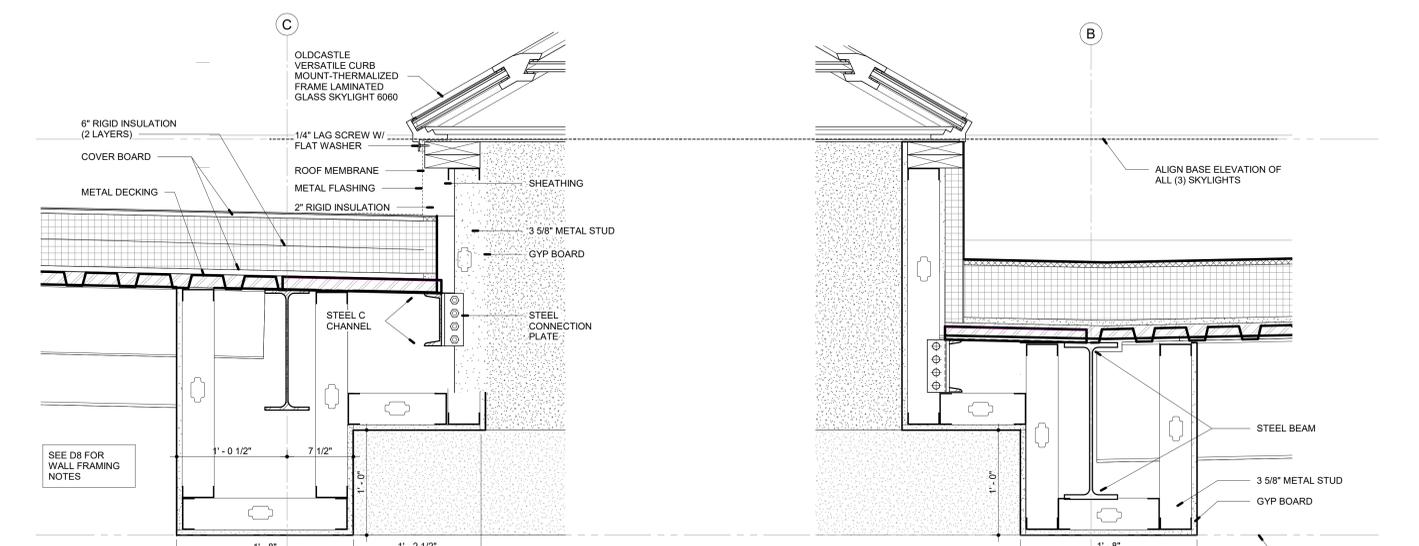
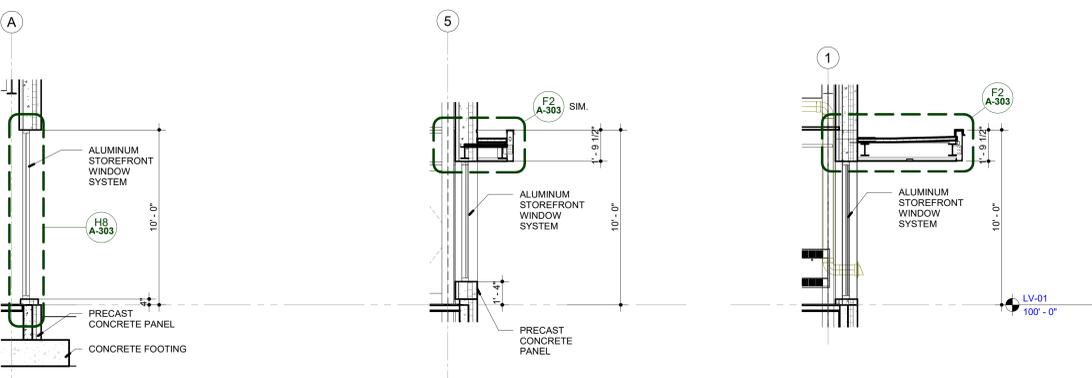
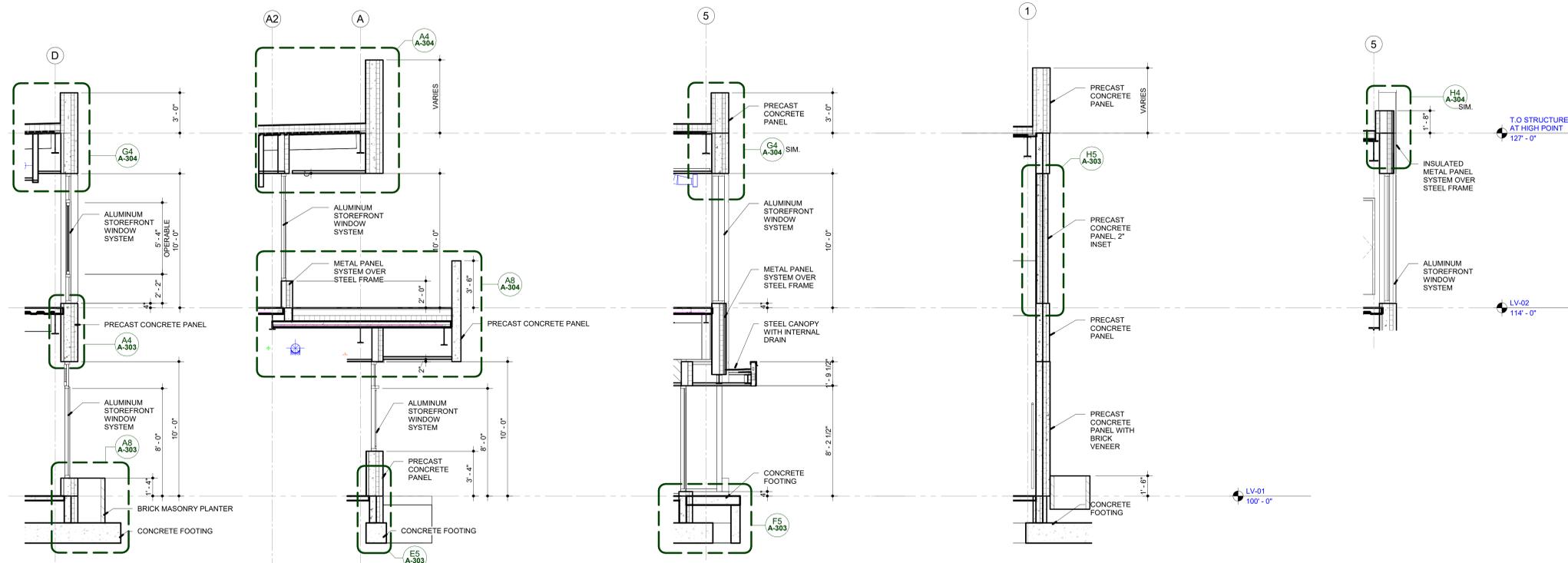


**A4** Building Section - NS  
 A-301 SCALE: 1/4" = 1'-0"



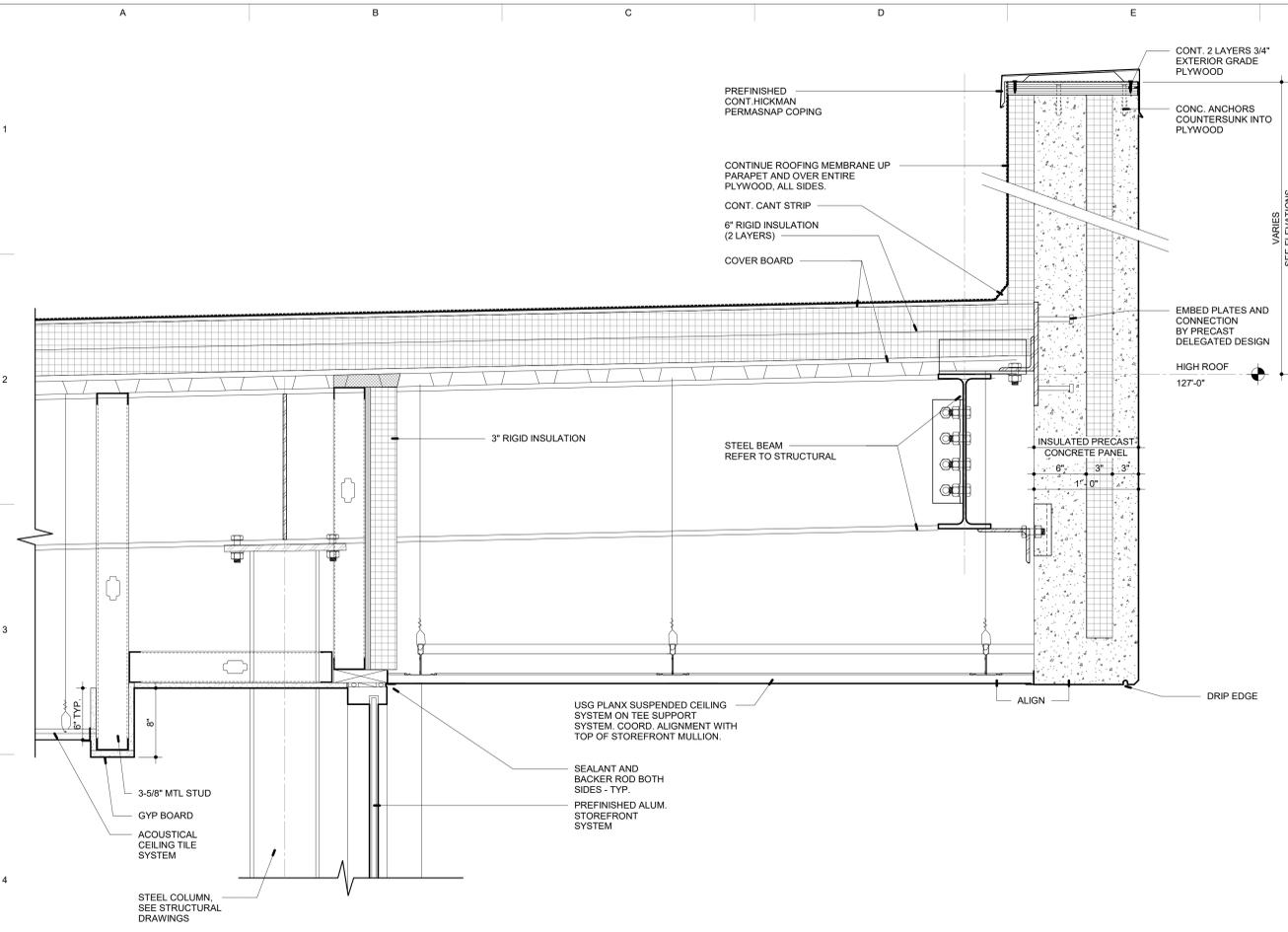
**A8** Section - EW  
 A-301 SCALE: 1/4" = 1'-0"

#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

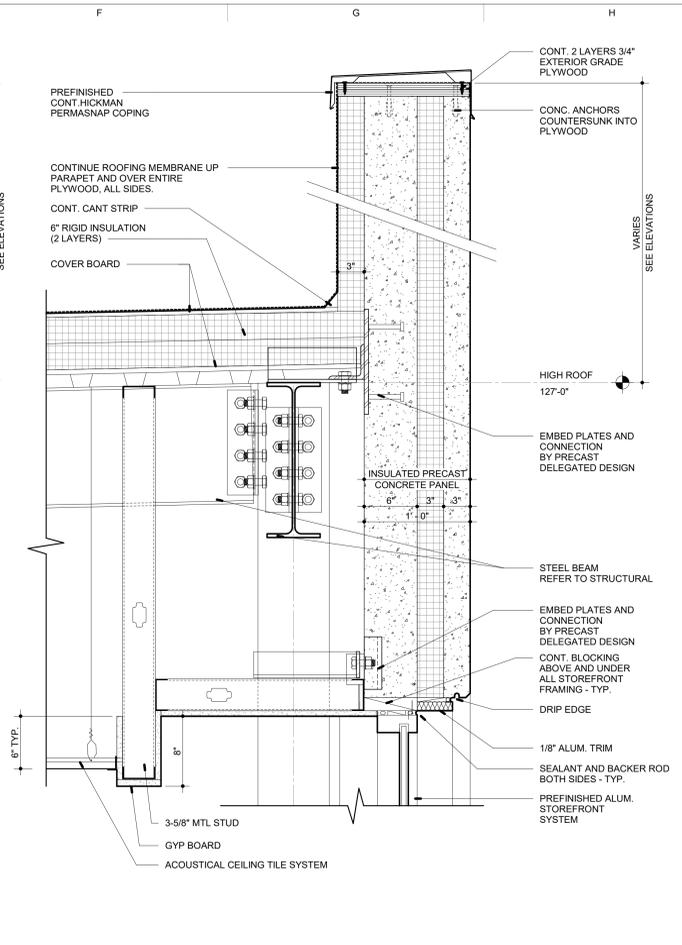


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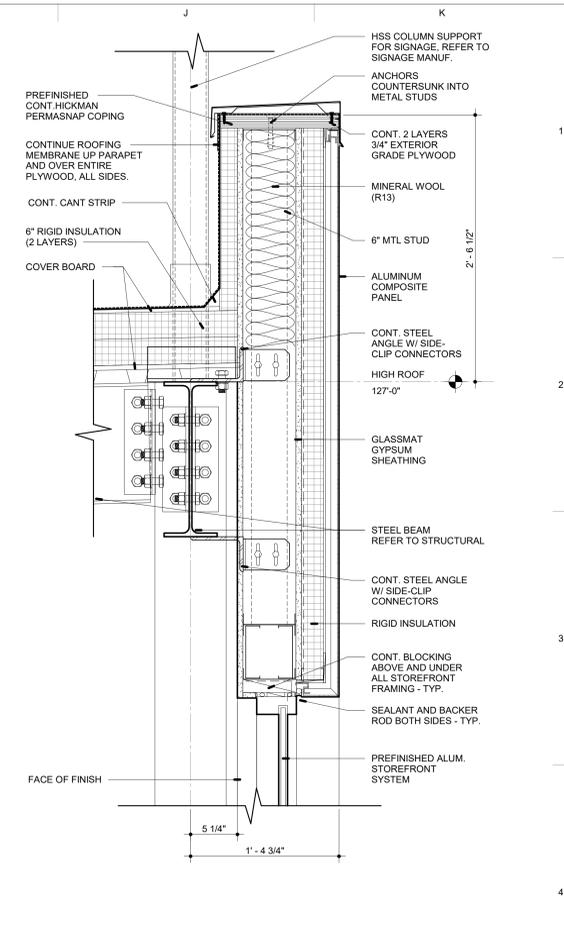




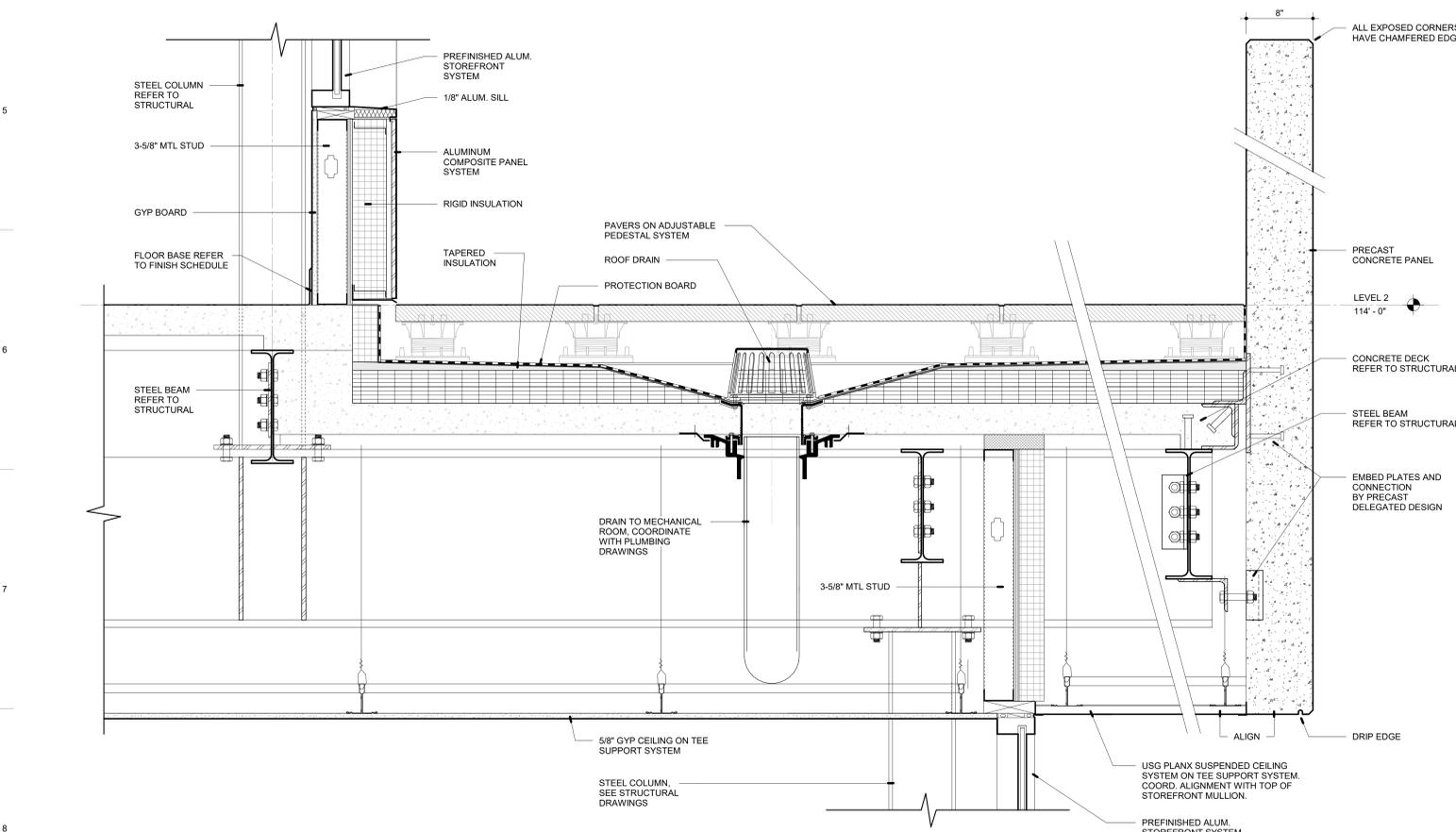
**A4** SECTION - CANOPY @ BALCONY  
A-304 SCALE: 1 1/2" = 1'-0"



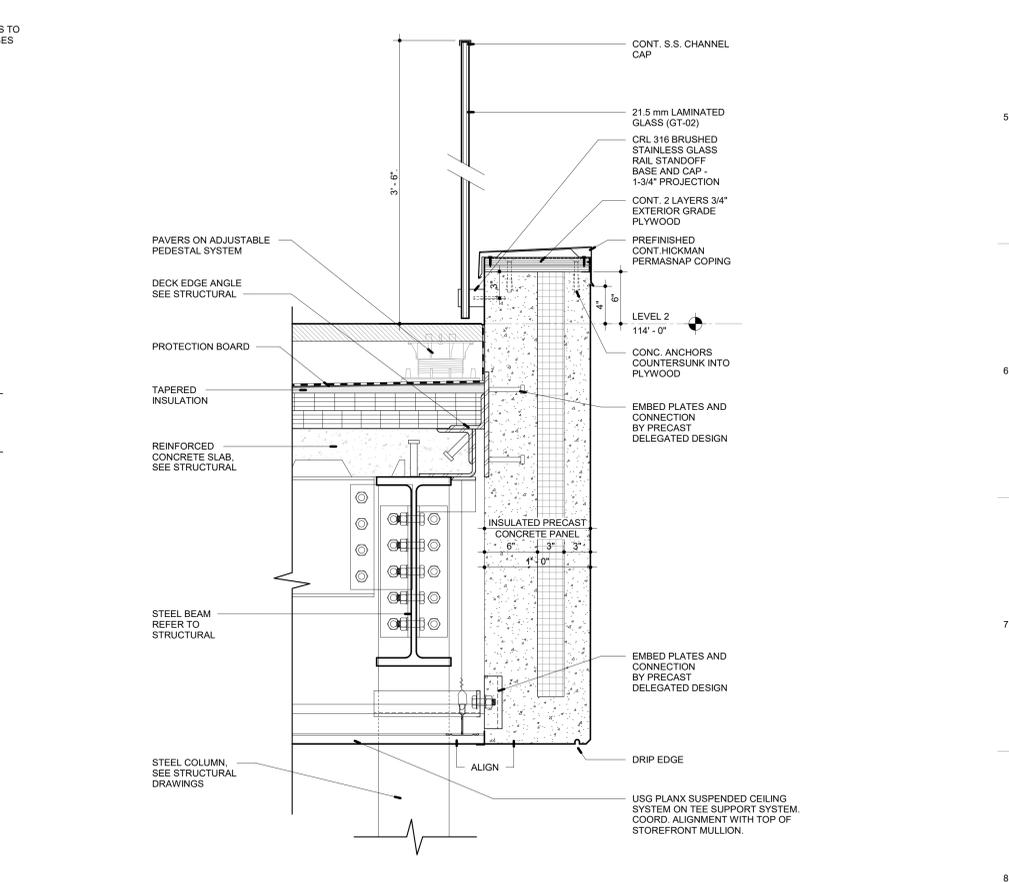
**G4** SECTION - TYP. PARAPET DETAIL @ INSULATED PRECAST CONCRETE PANELS  
A-304 SCALE: 1 1/2" = 1'-0"



**H4** SECTION - TYP. PARAPET DETAIL @ ACP PANELS  
A-304 SCALE: 1 1/2" = 1'-0"



**A8** SECTION - BALCONY  
A-304 SCALE: 1 1/2" = 1'-0"



**G8** SECTION - BALCONY @ GLASS RAILING  
A-304 SCALE: 1 1/2" = 1'-0"

#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

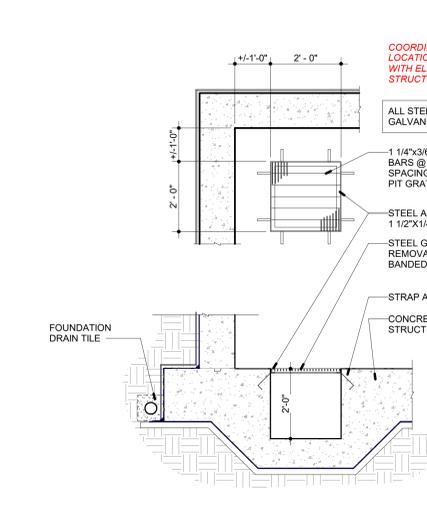
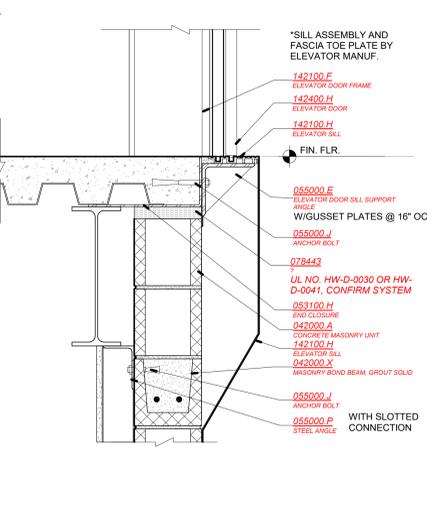
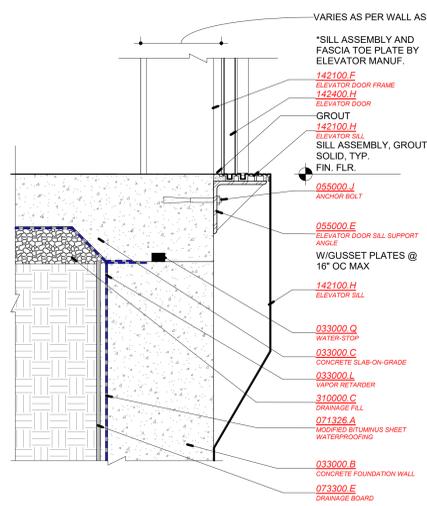
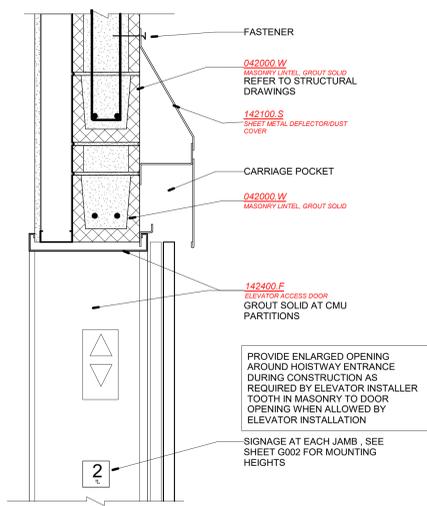
KEY PLAN

SHEET TITLE  
Details

PROJECT # 2024-010.00 Scale: 1/16" = 1'-0"

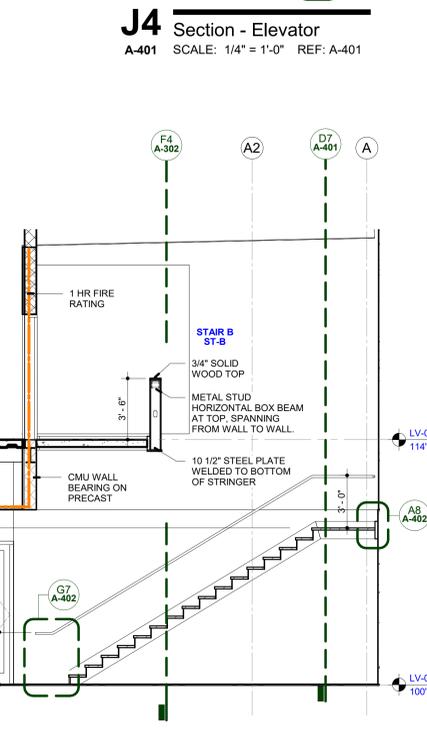
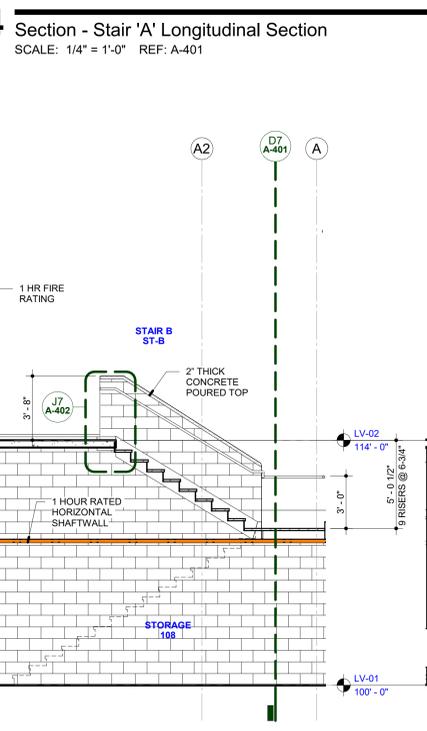
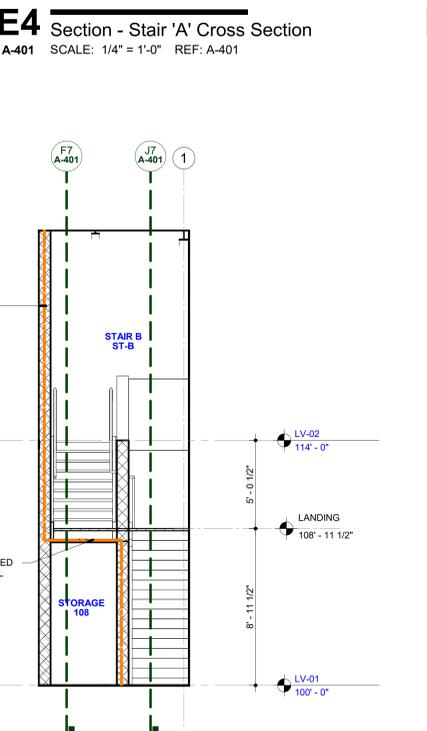
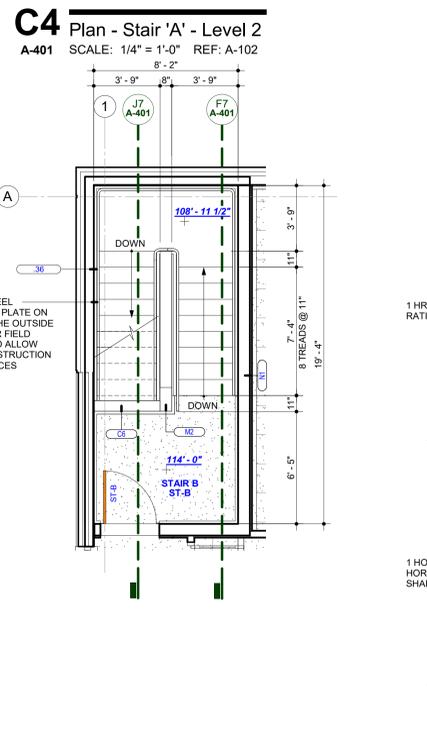
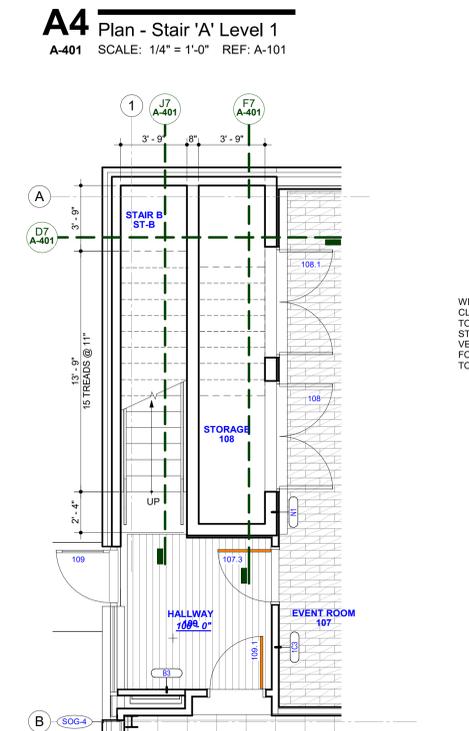
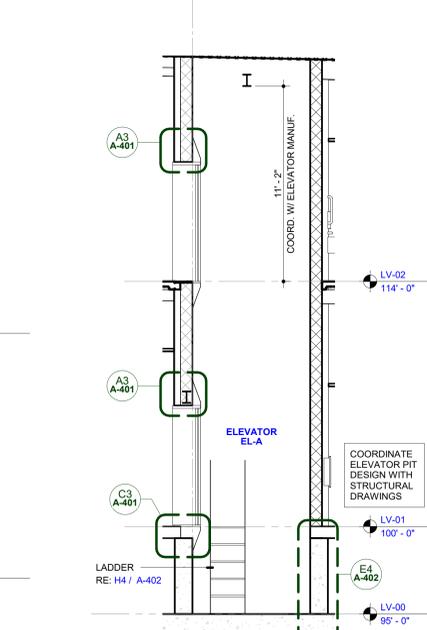
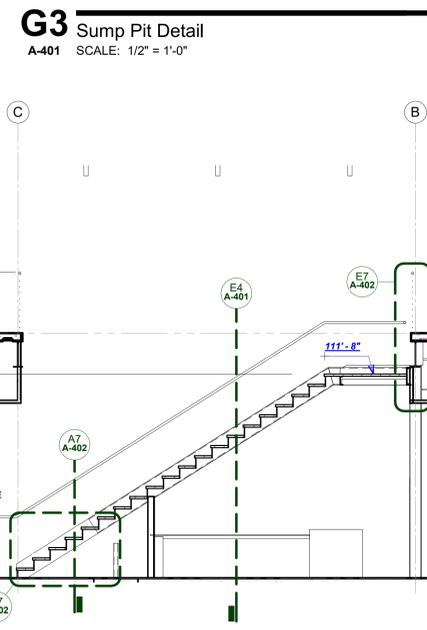
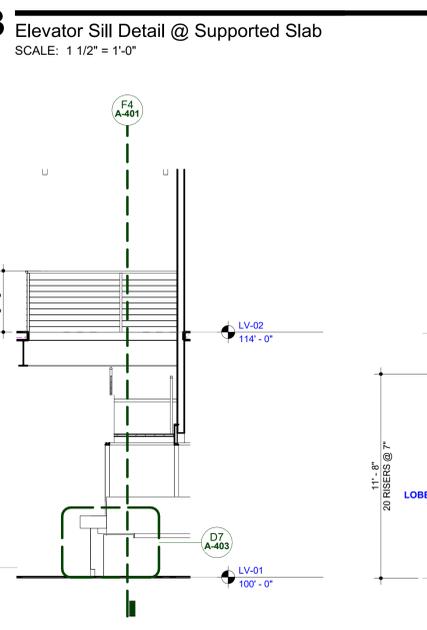
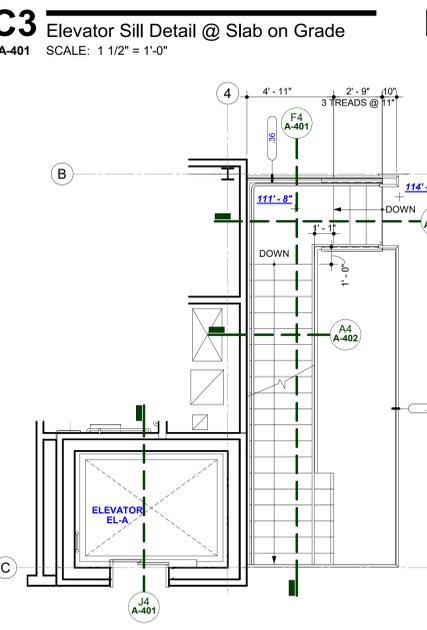
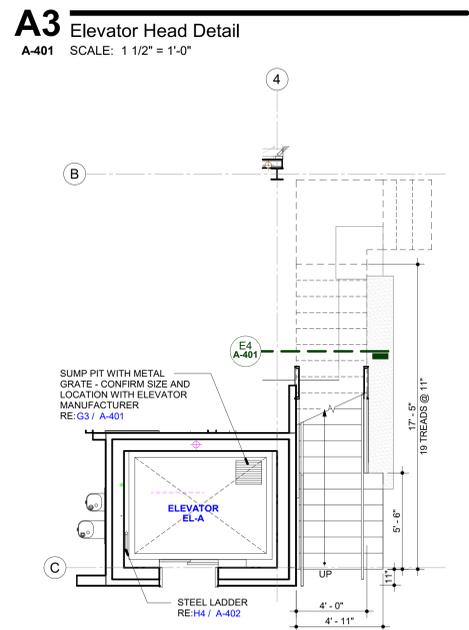
SHEET #  
**A-304**

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**MATERIAL KEYNOTES**

033000.B	CONCRETE FOUNDATION WALL
033000.C	CONCRETE SLAB-ON-GRADE
033000.L	VAPOR RETARDER
033000.Q	WATER-STOP
042000.A	CONCRETE MASONRY UNIT
042000.W	MASONRY LINTEL, GROUT SOLID
042000.X	MASONRY BOND BEAM, GROUT SOLID
053100.H	END CLOSURE
055000.E	ELEVATOR DOOR SILL SUPPORT ANGLE
055000.J	ANCHOR BOLT
055000.P	STEEL ANGLE
071326.A	MODIFIED BITUMINUS SHEET WATERPROOFING
073300.E	DRAINAGE BOARD
078443	ELEVATOR DOOR FRAME
142100.F	ELEVATOR SILL
142100.H	ELEVATOR ACCESS DOOR
142400.H	ELEVATOR DOOR
310000.C	DRAINAGE FILL



PROJECT

## West Michigan Hispanic Chamber of Commerce - HQ

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Grand Rapids, MI 49507

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#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

KEY PLAN

SHEET TITLE  
Typical Stair & Elevator Details

PROJECT #  
2024-010.00

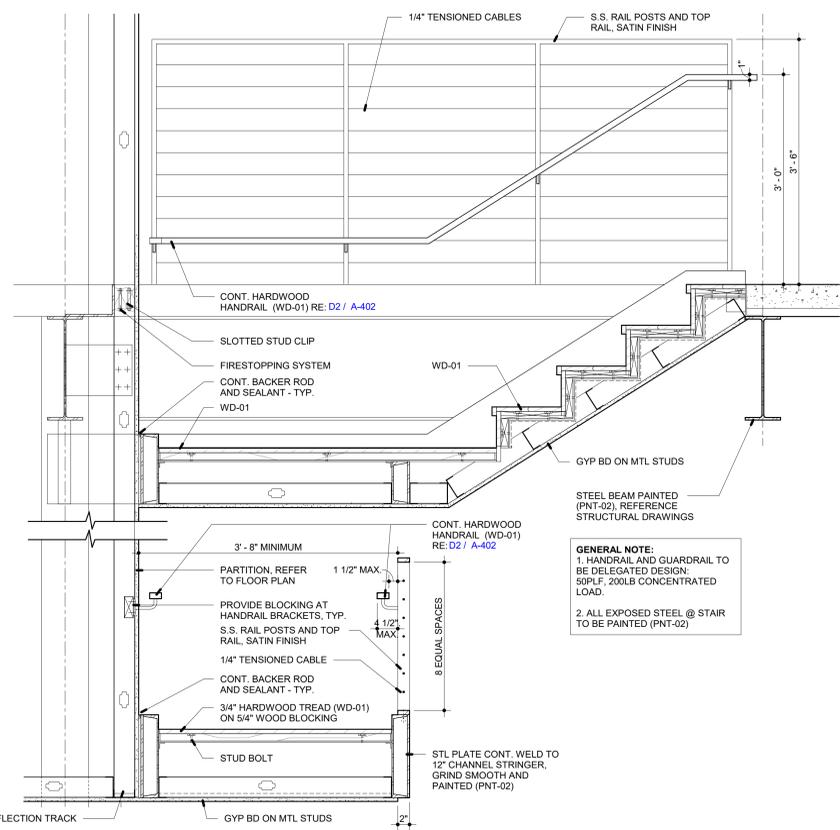
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SHEET #

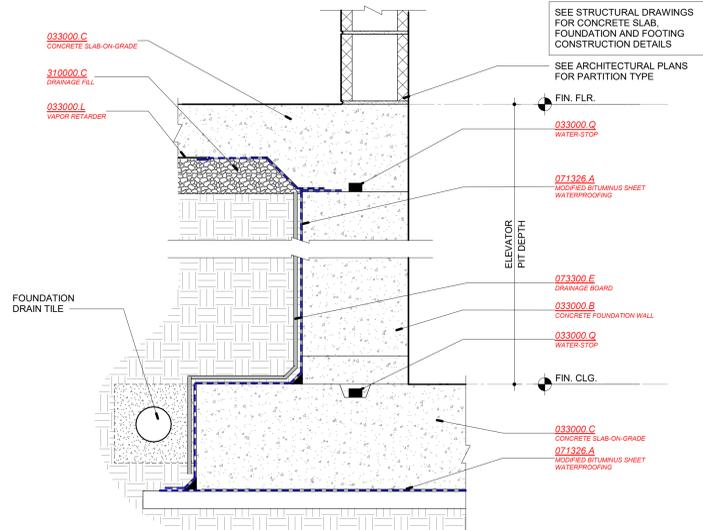
A-402

### MATERIAL KEYNOTES

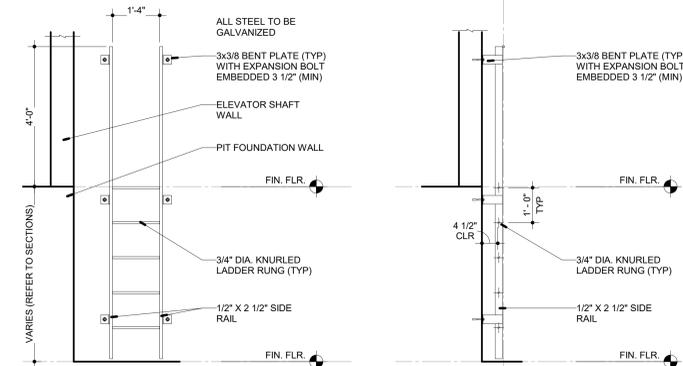
033000.B	CONCRETE FOUNDATION WALL
033000.C	CONCRETE SLAB-ON-GRADE
033000.D	CONCRETE SUSPENDED SLAB
033000.L	VAPOR RETARDER
033000.P	CONCRETE FILL
033000.Q	WATER-STOP
051200.C	STEEL BEAM
051200.J	STEEL BENT PLATE
051200.K	STEEL ANGLE
053100.C	STEEL FLOOR DECK
055100.B	METAL STAIR PAN
055100.C	STEEL STRINGER
055100.F	ANCHOR BOLT
055213.A	STEEL PIPE RAILING SYSTEM
055213.C	STEEL PIPE/TUBE RAIL
055213.H	HANDRAIL BRACKET- 1" x 3/16" BENT STEEL BAR
071326.A	MODIFIED BITUMINUS SHEET WATERPROOFING
073300.E	DRAINAGE BOARD
073300.A	JOINT SEALANT
310000.C	DRAINAGE FILL



**D2** Section - Typ. Stair 'A' Handrail  
A-402 SCALE: 12" = 1'-0"

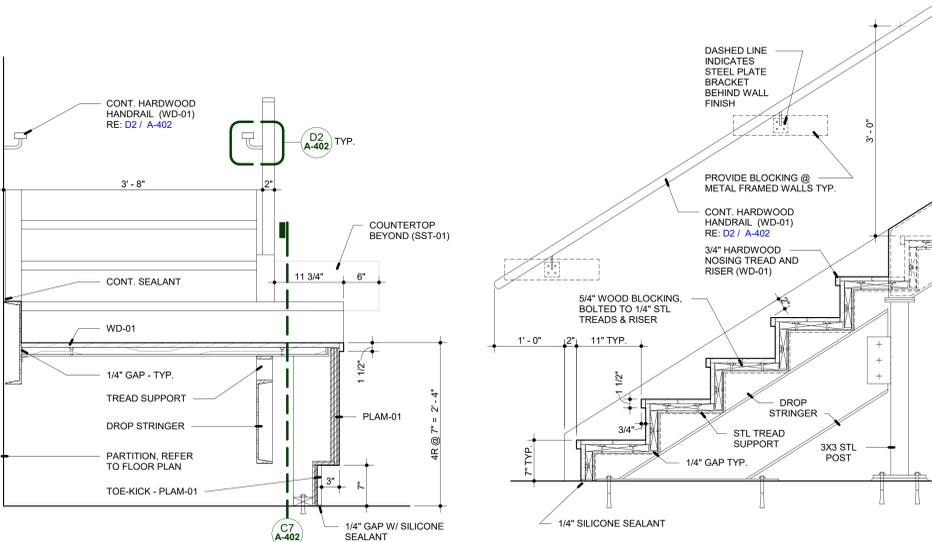


**E4** Section - Elevator Pit Detail  
A-402 SCALE: 1 1/2" = 1'-0"

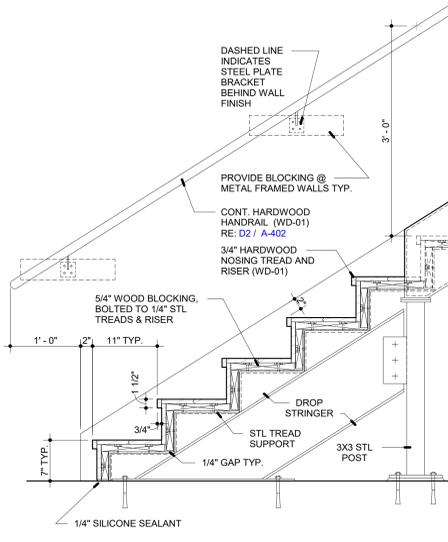


**H4** Elevation / Section - Pit Ladder Detail  
A-402 SCALE: 1/2" = 1'-0"

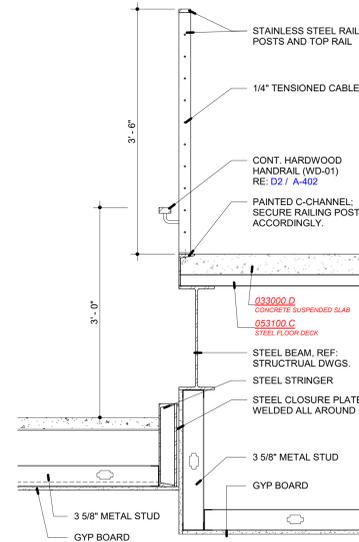
**A4** Section - Stair 'A' Cross Section  
A-402 SCALE: 1" = 1'-0"



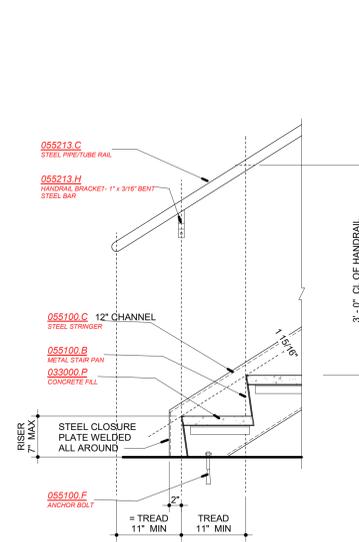
**C7** Section - Stair 'A' Base Detail  
A-402 SCALE: 1" = 1'-0"



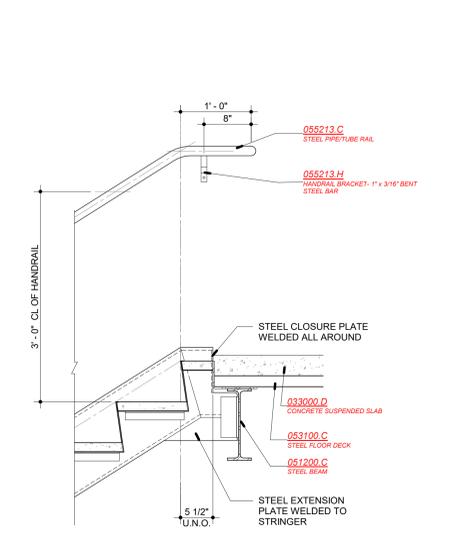
**E7** Section - Stair 'A' Connection to Concrete Slab  
A-402 SCALE: 1" = 1'-0"



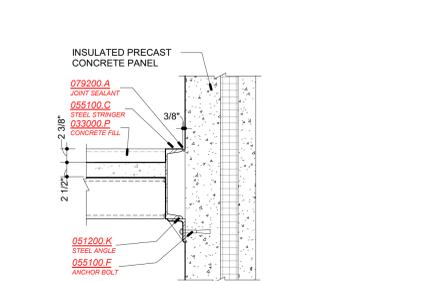
**G7** Section - Stair 'B' Base Detail @ Wall  
A-402 SCALE: 1" = 1'-0"



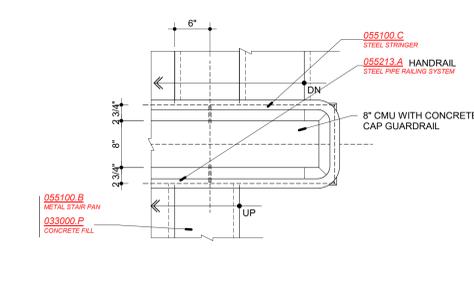
**J7** Section - Stair 'B' Connection to Concrete Slab  
A-402 SCALE: 1" = 1'-0"



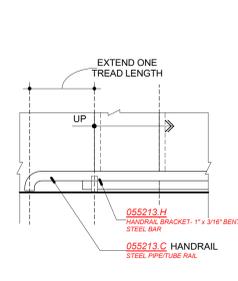
**A7** Section - Stair 'A' Cross Section  
A-402 SCALE: 1" = 1'-0"



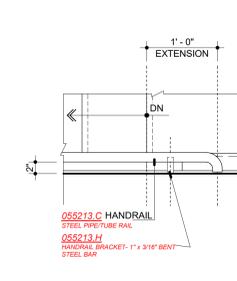
**C8** Plan - Rail Detail at Stair 'B' Landing  
A-402 SCALE: 1" = 1'-0"



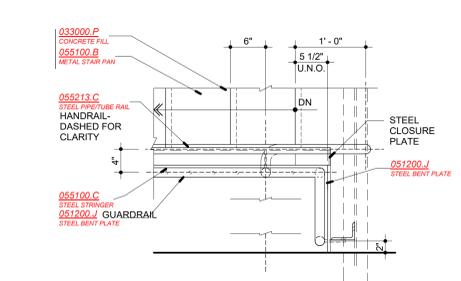
**E8** Plan - Rail Detail at Stair 'B' Base - Wall  
A-402 SCALE: 1" = 1'-0"



**G8** Plan - Rail Detail at Stair 'B' Top - Wall  
A-402 SCALE: 1" = 1'-0"



**J8** Plan - Rail Detail at Top of Stair 'B'  
A-402 SCALE: 1" = 1'-0"



**A8** Section - Stair 'B' Stringer at Interior Walls  
A-402 SCALE: 1" = 1'-0"



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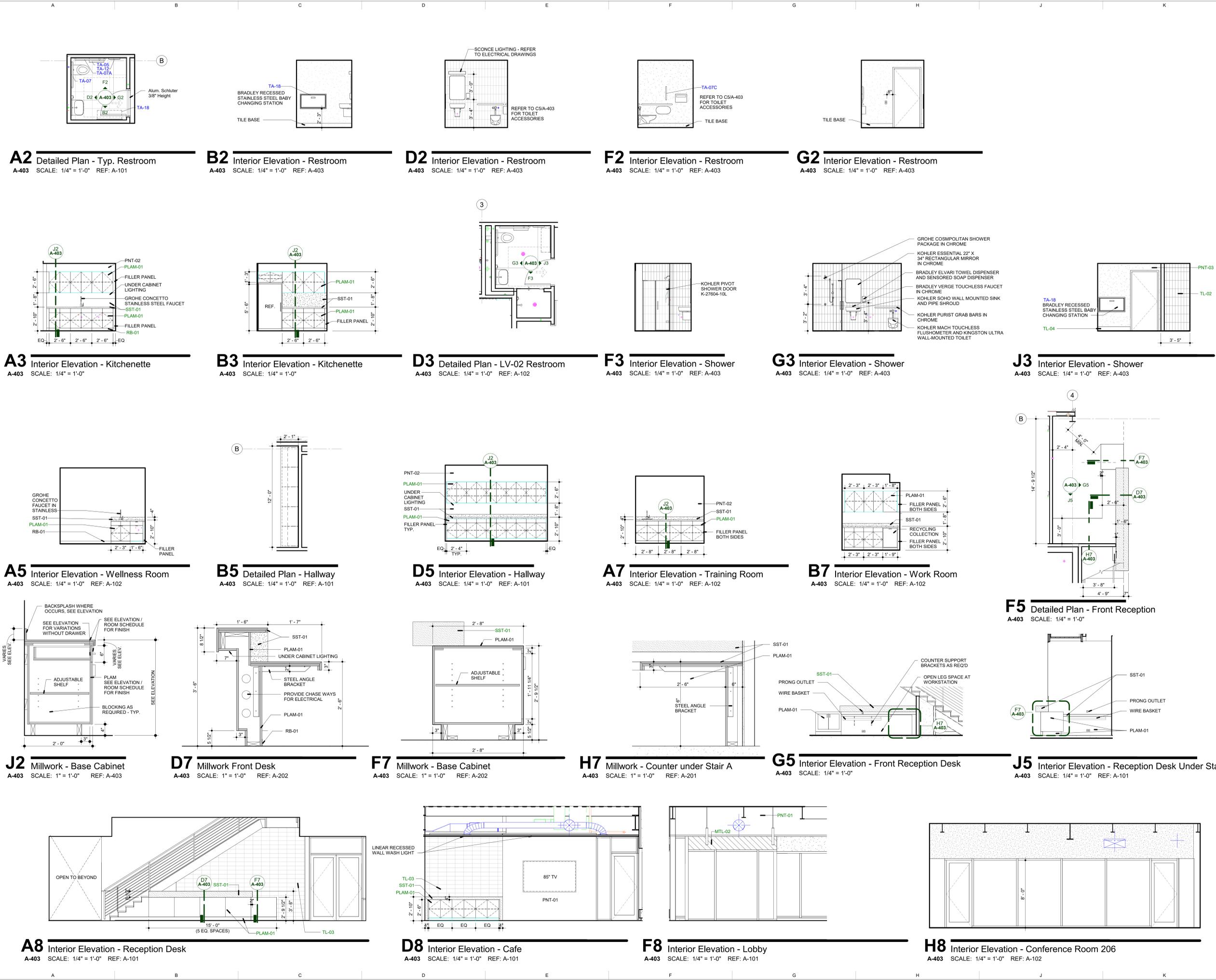
KEY PLAN

SHEET TITLE  
Interior Elevations

PROJECT #  
2024-010.00

SHEET #

**A-403**



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PROJECT

## West Michigan Hispanic Chamber of Commerce - HQ

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Grand Rapids, MI 49507

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PROFESSIONAL SEAL

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#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

KEY PLAN

SHEET TITLE  
Roof Details

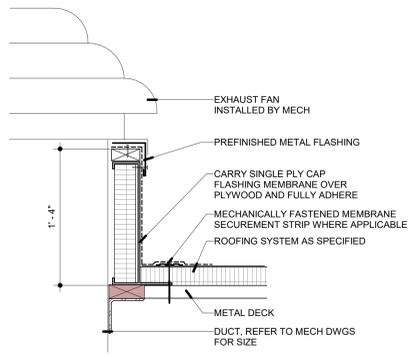
PROJECT #  
2024-010.00

SHEET #

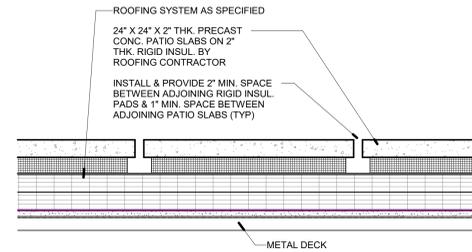
**A-501**

MATERIAL KEYNOTES

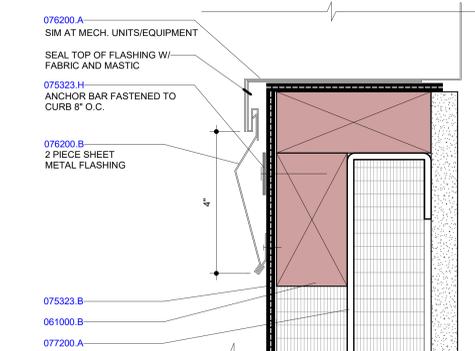
051200.L	STEEL HOLLOW STRUCTURAL SECTION (HSS)
053100.A	STEEL DECKING
053100.B	STEEL ROOF DECK
053100.C	STEEL FLOOR DECK
061000.B	FIRE-RETARDANT-TREATED WOOD BLOCKING
061600.A	GLASS-MAT GYPSUM SHEATHING
075323.B	TPO ROOFING MEMBRANE
075323.C	SHEET FLASHING
075323.D	VAPOR RETARDER
075323.H	METAL TERMINATION BARS
075323.J	FASTENERS
075323.M	ROOF INSULATION
075323.T	COVER BOARD
076200.A	FLASHING
076200.B	COUNTER FLASHING
077200.A	ROOF CURB
077200.C	ROOF HATCH



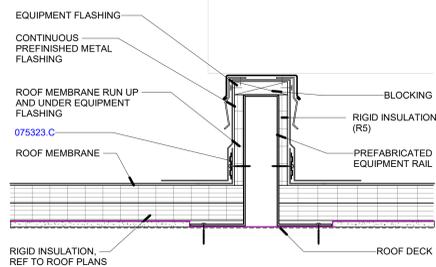
**A3** EXHAUST FAN CURB  
A-501 SCALE: 1 1/2" = 1'-0"



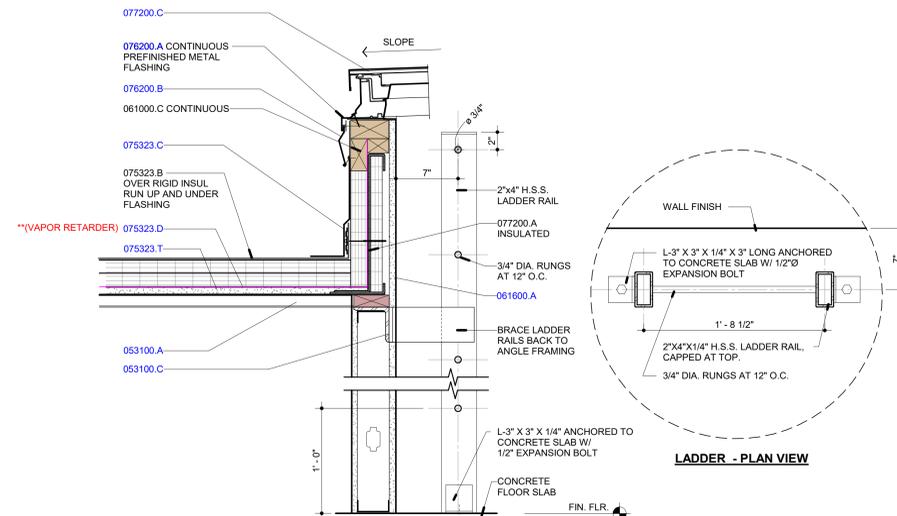
**C3** TYP. ROOF PAVER DETAIL  
A-501 SCALE: 1 1/2" = 1'-0"



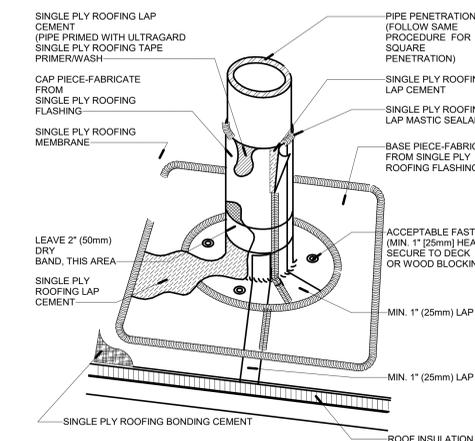
**A5** TYP ROOF CURB ENLARGED DETAIL  
A-501 SCALE: 6" = 1'-0"



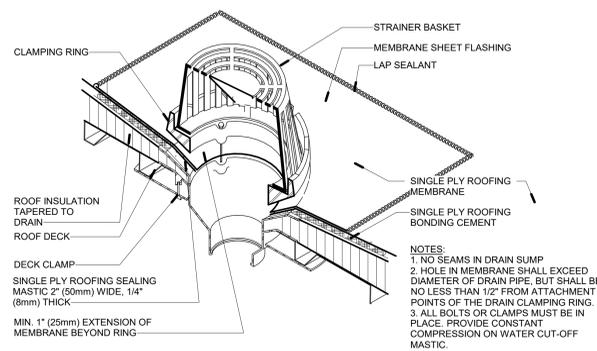
**F5** TYP ROOF EQUIPMENT RAIL DETAIL  
A-501 SCALE: 1 1/2" = 1'-0"



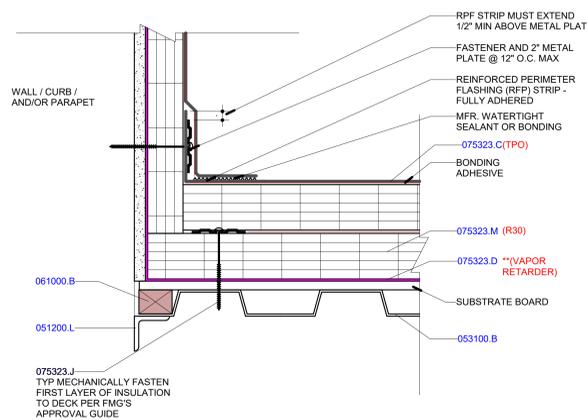
**C5** ROOF HATCH & LADDER DETAIL  
A-501 SCALE: 1 1/2" = 1'-0"



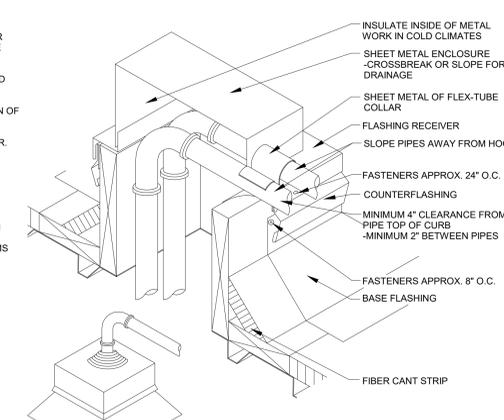
**A8** ROOFING PIPING PENETRATION DETAIL  
A-501 SCALE: 1 1/2" = 1'-0"



**C8** ROOF DRAIN DETAIL (TPO)  
A-501 SCALE: 1 1/2" = 1'-0"



**F8** RS-1 BASE TIE-IN SINGLE PLY ROOF FLASHING DETAIL  
A-501 SCALE: 3" = 1'-0"

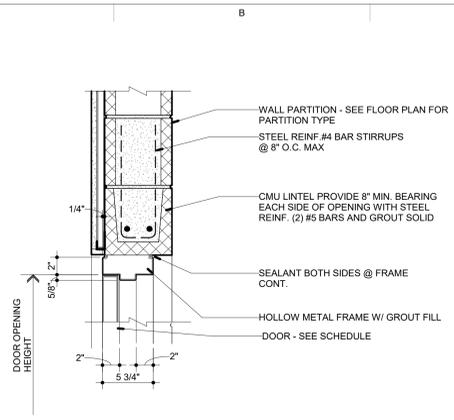


**J8** PIPING/CONDUIT THROUGH ROOF DECK DETAIL  
A-501 SCALE: 1 1/2" = 1'-0"

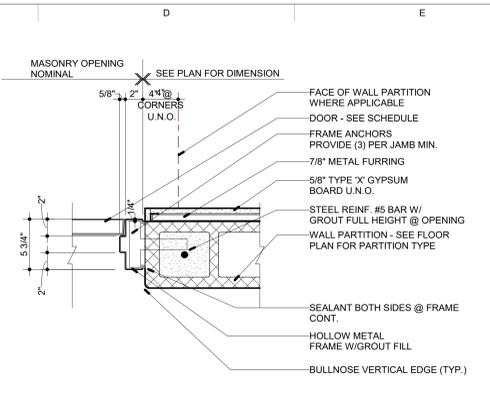
Autodesk Docs://West Mich Hispanic Chamber of Commerce/WHCCoc-Arch/INT  
2/11/2025 1:42:01 PM



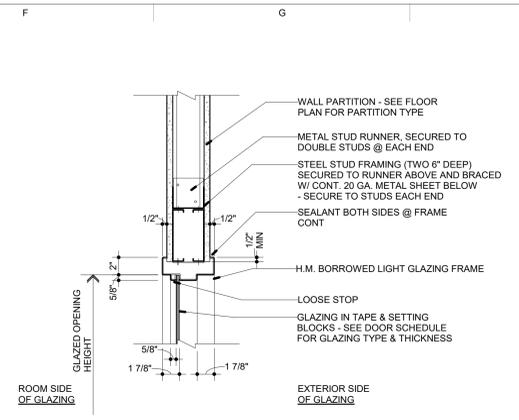
#	DESCRIPTION	DATE
1	Bid Set	02/07/2025



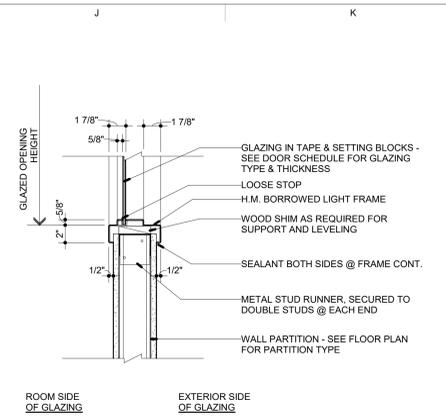
**A2** HEAD AT TYP CMU PARTITION (MORE THAN 5'-0")  
A-602 SCALE: 1 1/2" = 1'-0"



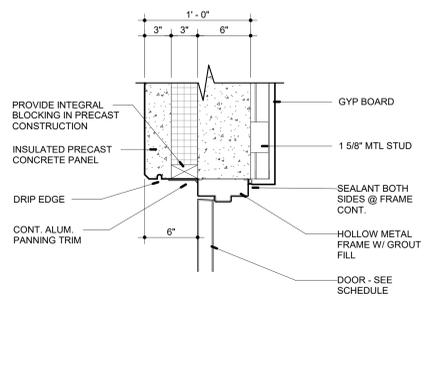
**C2** JAMB AT TYPICAL CMU PARTITION  
A-602 SCALE: 1 1/2" = 1'-0"



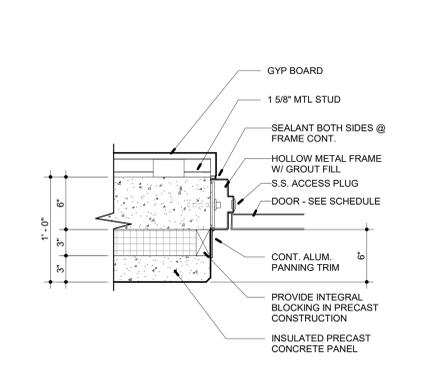
**F2** HEAD AT BORROWED LIGHT IN STUD PARTITION  
A-602 SCALE: 1 1/2" = 1'-0"



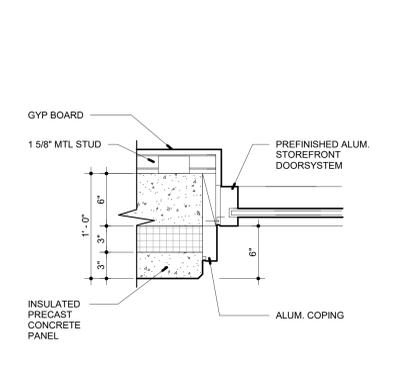
**H2** SILL AT BORROWED LIGHT IN STUD PARTITION  
A-602 SCALE: 1 1/2" = 1'-0"



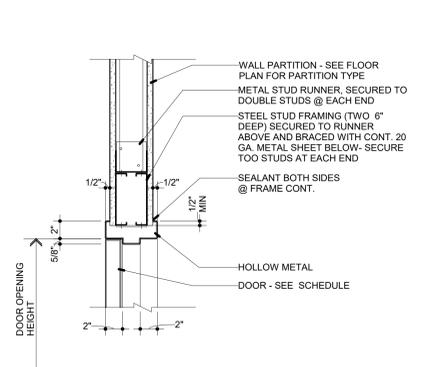
**A4** TYP. EXTERIOR H.M. HEAD DETAIL  
A-602 SCALE: 1 1/2" = 1'-0"



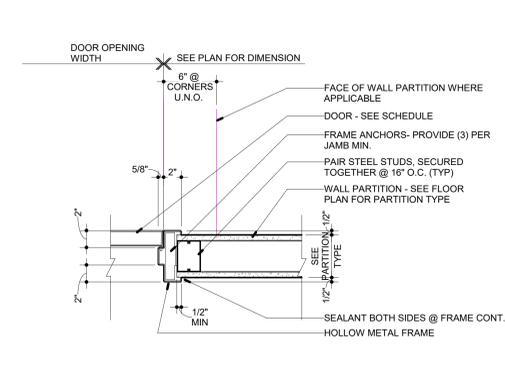
**B4** TYP. EXTERIOR H.M. JAMB DETAIL  
A-602 SCALE: 1 1/2" = 1'-0"



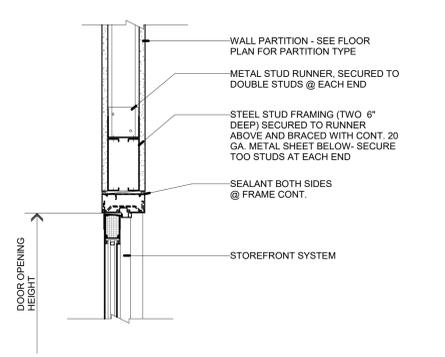
**C4** TYP. EXTERIOR STOREFRONT JAMB DETAIL  
A-602 SCALE: 1 1/2" = 1'-0"



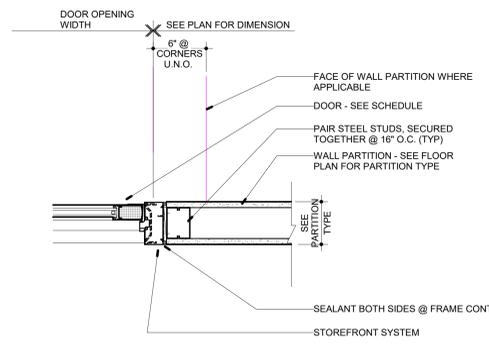
**F4** HEAD AT TYP STUD PARTITION (MORE THAN 5'-0")  
A-602 SCALE: 1 1/2" = 1'-0"



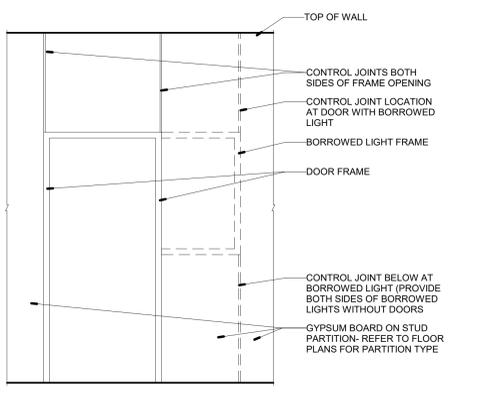
**H4** JAMB AT TYPICAL STUD PARTITION  
A-602 SCALE: 1 1/2" = 1'-0"



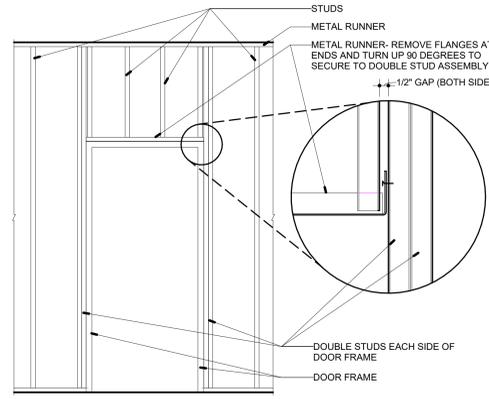
**A6** HEAD AT TYP STUD PARTITION @ STOREFRONT SYSTEM  
A-602 SCALE: 1 1/2" = 1'-0"



**C6** JAMB AT TYP STUD PARTITION @ STOREFRONT SYSTEM  
A-602 SCALE: 1 1/2" = 1'-0"

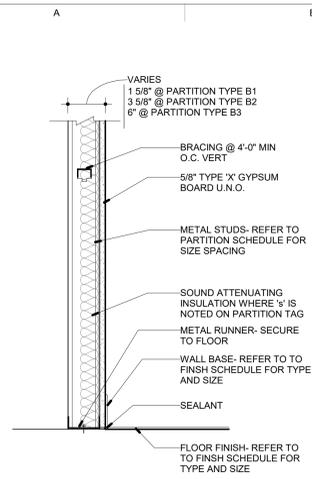


**A8** Control Joint Locations at Op'gs in Gyp Bd Partitions 1  
A-602 SCALE: 1/2" = 1'-0"

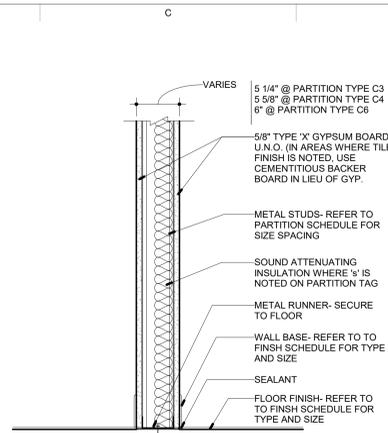


**D8** Typical Stud Framing at Openings 2  
A-602 SCALE: 1/2" = 1'-0"

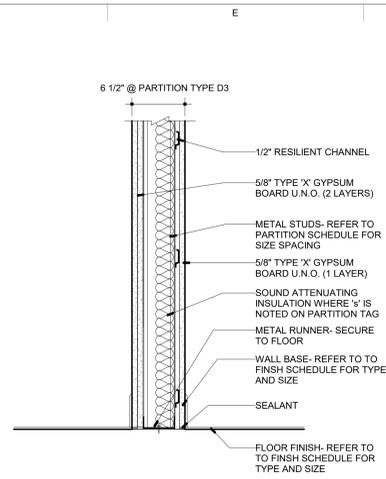
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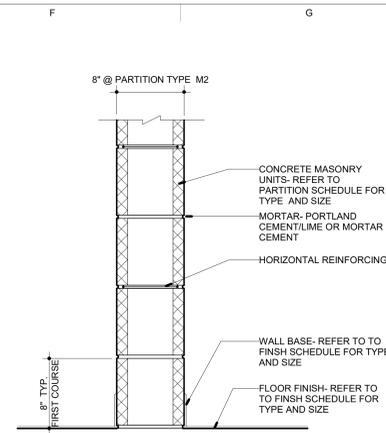
Partition Type B  
SCALE: 1 1/2" = 1'-0"



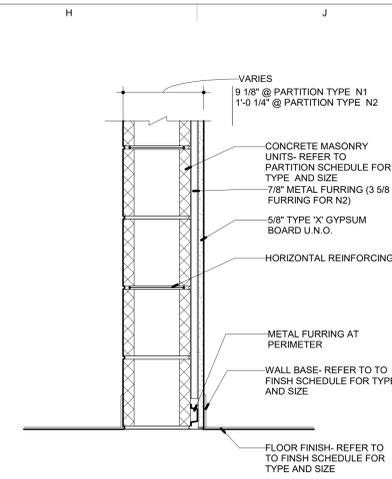
Partition Type C  
SCALE: 1 1/2" = 1'-0"



Partition Type D (STC +/-55)  
SCALE: 1 1/2" = 1'-0"



Partition Type M  
SCALE: 1 1/2" = 1'-0"



Partition Type N  
SCALE: 1 1/2" = 1'-0"

**INTERIOR PARTITION SCHEDULE ROSv3.4**

\*R\* REVISED PARTITION, \*N\* NEW PARTITION

DELETED WALL GROUP(S): NONE

TYPE	DESCRIPTION	WIDTH		DETAIL	STUD			MAX HEIGHT		UL DESIGN			STC*		REMARKS
		MODEL	ACTUAL		DEPTH	THICK	SPACING	(X or Y)	(Z)	1Hr	2Hr	Other	W/O	W	
B1	1 GYP. 1 SIDE ON 1 5/8" METAL STUDS	2 1/4"	4 1/4"	A-601	3 5/8"	30 MIL	16"	13'-7"	13'-7"	--	--	--	29	34	
B2	1 GYP. 1 SIDE ON 3 5/8" METAL STUDS	<varies>	4 1/4"	A-601	3 5/8"	30 MIL	16"	13'-7"	13'-7"	--	--	--	29	34	
B3	1 GYP. 1 SIDE ON 6" METAL STUDS	6 3/4"	6 5/8"	A-601	6"	30 MIL	16"	20'-3"	20'-3"	--	--	--		37	
C3	1 GYP. BOTH SIDES ON 3 5/8" METAL STUDS	<varies>	4 7/8"	A-601	3 5/8"	30 MIL	16"	13'-0"	14'-10"	U419	--	--	42	44	
C4	1 GYP. ONE SIDE ON 6" METAL STUDS	5 5/8"	5 1/4"	A-601	4"	30 MIL	16"	14'-7"	15'-5"	--	--	--	42	44	
C6	1 GYP. BOTH SIDES ON 6" METAL STUDS	7 1/4"	7 1/4"	A-601	6"	30 MIL	16"	20'-0"	21'-6"	U419	--	--	42	44	
D3	2 GYP. ONE SIDES ON 3 5/8" METAL STUDS, 1 GYP ONE SIDE, 1 R/O ONE SIDE	6"	6 1/8"	A-601	3 5/8"	30 MIL	16"	14'-7"	15'-5"	U419	--	--	48	56	
M2	6" CMU (NORMAL WEIGHT)	8"	7 5/8"	A-601	--	--	--	16'-0"	16'-0"	U905	--	--	45	51	
N1	8" CMU, 7/8" STEEL FURRING + 1 GYP. ON 1 SIDE	9 1/2"	9 1/8"	A-601	7/8"	18 MIL	16"	24'-0"	24'-0"	U905	--	--			
N2	8" CMU, 3 5/8" STEEL FURRING + 1 GYP. ON 1 SIDE	1'-0 1/2"	9 1/8"	A-601	7/8"	18 MIL	16"	24'-0"	24'-0"	U905	--	--			

**PARTITION GENERAL NOTES**

- PARTITION TYPES ARE LOCATED ON THE PLANS UNLESS NOTED OTHERWISE.
- WHERE PARTITION TYPES ARE INDICATED, THE PARTITION TYPE IS CONTINUOUS UNTIL THE PARTITION CHANGES DIRECTIONS, OR A DIFFERENT PARTITION TYPE IS NOTED.
- PARTITIONS ARE TYPICALLY DIMENSIONED FROM THE FACE OF THE PARTITION TO FACE OF PARTITION OR COLUMN CENTERLINE UNLESS NOTED OTHERWISE.
- ALL GYPSUM BOARD SHALL BE 5/8" TYPE 'X' UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS AND DRAWINGS.
- ALL INTERIOR STEEL STUDS TO BE NOT LESS THAN 30 MIL THICK AND SPACED AT 1'-4" O.C. UNLESS NOTED OTHERWISE.
- PROVIDE DOUBLE STUDS AT EACH SIDE OF ALL OPENINGS FROM FLOOR TO TOP RUNNER.
- TAPE AND SEAL ALL JOINTS IN GYPSUM BOARD ABOVE CEILINGS.
- FIRE RESISTANCE RATINGS ARE NOTED ON THE LIFE SAFETY PLAN.
- AT ALL FIRE RESISTANCE RATED CONSTRUCTION, SEAL PARTITIONS AT STRUCTURE, FLOOR AND AT ALL PENETRATIONS WITH UL RATED SYSTEMS.
- PROVIDE UL RATED ASSEMBLIES AT ALL FIRE RESISTANCE RATED PARTITIONS.
- MAINTAIN CONTINUITY OF FIRE RATED PARTITIONS AT INTERSECTIONS OF NON-RATED OR LESSER RATED PARTITIONS.
- WHEN INSULATION IS INDICATED ON PARTITION OR PARTITION TYPE (WITH a SUFFIX), CONSTRUCT A FULL HEIGHT ACOUSTICAL PARTITION WITH THE STC RATING INDICATED. IF NO STC IS INDICATED, PROVIDE 3" ACOUSTICAL BATT INSULATION. PROVIDE INSULATION FOR THE FULL DEPTH, WIDTH AND HEIGHT OF CAVITY AND SEAL PERIMETER AND ALL PENETRATIONS WITH ACOUSTICAL SEALANT.
- AT ALL ACOUSTICAL PARTITIONS, SEAL PARTITIONS WITH ACOUSTIC SEALANT AT ALL ADJACENT CONSTRUCTION AND AT ALL PENETRATIONS.
- FINISHES ON PARTITIONS SYSTEMS TO EXTEND TO PLASTER/GYPSUM BOARD CEILING SYSTEMS UNLESS NOTED OTHERWISE FINISHES ON PARTITION SYSTEMS TO EXTEND 4" ABOVE ACOUSTICAL CEILING SYSTEM UNLESS NOTED OTHERWISE.
- FINISHES ON PARTITION SYSTEMS TO EXTEND 4" ABOVE ACOUSTICAL CEILING SYSTEM UNLESS NOTED OTHERWISE.
- REFER TO ROOM FINISH SCHEDULE FOR ALL INTERIOR FINISHES.
- \* STC RATINGS ARE FROM THE FOLLOWING SOURCES: USG ACOUSTICAL ASSEMBLIES, GYPSUM ASSOCIATION 2003 FIRE RESISTANCE DESIGN MANUAL, NATIONAL GYPSUM THE SOUND BOOK, CALIFORNIA DEPARTMENT OF HEALTH SERVICES CATALOG OF STC AND IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES.

**INTERIOR WALL PARTITION KEY**

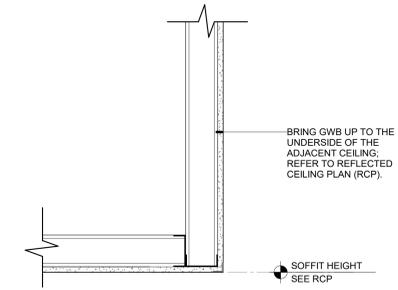
**PARTITION GROUPS**

- B = ONE LAYER OF GYPSUM BOARD ON ONE SIDE OF METAL STUDS.
- C = ONE LAYER OF GYPSUM BOARD ON BOTH SIDES OF METAL STUDS.
- D = TWO LAYERS OF GYPSUM BOARD ON BOTH SIDES OF METAL STUDS.
- M = MASONRY WALL.
- N = MASONRY WALL WITH ONE LAYER OF GYPSUM BOARD ON METAL FURRING ON ONE SIDE OF MASONRY.

**TYPICAL ABBREVIATIONS**

- GYP GYPSUM BOARD
- CMU CONCRETE MASONRY UNIT





**J2** SECTION - TYP. GYPSUM WALL BOARD SOFFIT  
A-702 SCALE: 1 1/2" = 1'-0"



CONSULTANT

PROFESSIONAL SEAL

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#	DESCRIPTION	DATE
1	Bid Set	02/07/2025

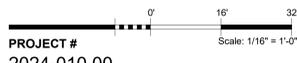
KEY PLAN

SHEET TITLE  
Reflected Ceiling Plan - Level 2

PROJECT #  
2024-010.00

SHEET #  
**A-702**

**A8** Reflected Ceiling Plan - Level 2  
A-702 SCALE: 1/4" = 1'-0"

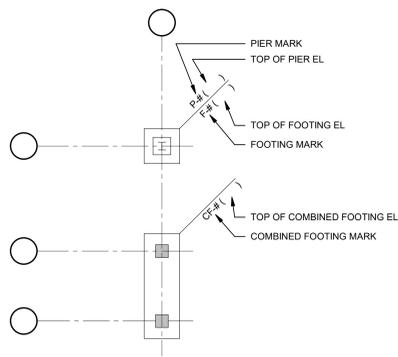


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#### FOUNDATION PLAN SYMBOLS AND DESIGNATIONS



#### FOUNDATION WALL DESIGNATIONS

- GB-# ( ) GRADE BEAM MARK (TOP OF GRADE BEAM EL)
- RW-# RETAINING WALL MARK
- WF-# WALL FOOTING MARK

#### SLAB ON GRADE SYMBOLS AND DESIGNATIONS

- THICKNESS IN INCHES
- SOG-# SLAB ON GRADE MARK (SOG-6)

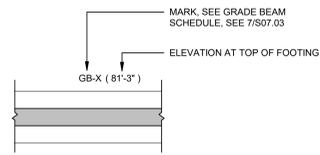
#### MISCELLANEOUS SYMBOLS

- SB-# SOIL BORING MARK
- TB-# TEST BORING MARK
- WATERSTOP (DUMBBELL, PVC UON)
- WATERSTOP (SELF-EXPANDING WATERSTOP)

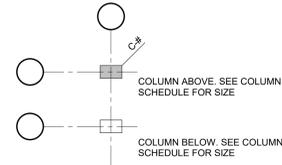
#### ELEVATION SYMBOLS

- ELEVATION AT TOP OF CONCRETE FROM PROJECT DATUM
- ELEVATION WITH RESPECT TO FLOOR DATUM IF SHOWN IN PARENTHESIS
- ELEVATION FROM ESTABLISHED ELEVATION
- CHANGE IN ELEVATION (SLAB STEP)
- CHANGE IN SLAB THICKNESS
- SLOPING TOP CONCRETE
- RAISED SLAB
- DOUBLE CHANGE IN ELEVATION (DOUBLE STEP)
- CHANGE IN ELEVATION WITH SLOPE
- STEPPED FOUNDATION
- SLAB TRENCH
- SLAB CURB
- VALLEY

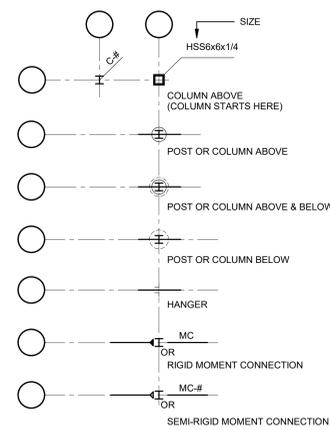
#### GRADE BEAM/CONT FOOTING DESIGNATIONS



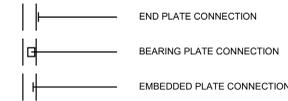
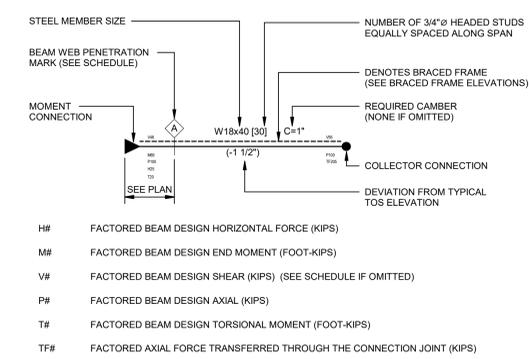
#### CONCRETE COLUMN DESIGNATIONS



#### STEEL COLUMN DESIGNATIONS



#### STEEL BEAM DESIGNATIONS

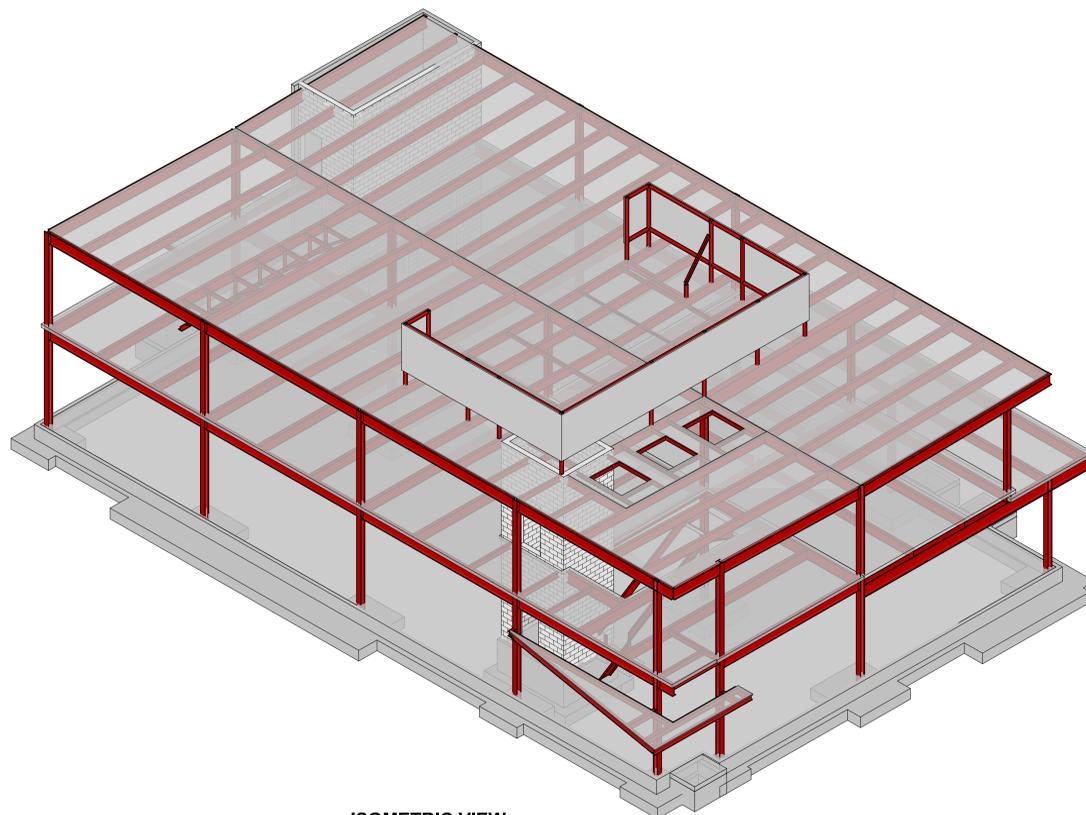


#### DECK AND SLAB SYMBOLS

- RD-# THICKNESS IN INCHES ROOF DECK MARK
- CS-# THICKNESS IN INCHES COMPOSITE SLAB MARK
- FS-# THICKNESS IN INCHES SLAB ON FORMED DECK MARK
- S-G SPAN DIRECTION ONE-WAY CONCRETE SLAB MARK

#### ABBREVIATIONS

- ADD ADDITIONAL
- APPROX APPROXIMATE
- ARCH ARCHITECTURAL
- BF BRACED FRAME
- BOF BOTTOM OF FOOTING
- BOS BOTTOM OF STEEL
- BP BEARING PLATE
- BRG BEARING
- CANT CANTILEVERED
- CFMF COLD FORMED METAL FRAMING
- CIP CAST IN PLACE
- CJ CONTROL OR CONSTRUCTION JOINT
- CMU CONCRETE MASONRY UNIT
- COL COLUMN
- CONC CONCRETE
- CONN CONNECTION
- CONT CONTINUOUS OR CONTINUATION
- CONTR CONTRACTOR
- COORD COORDINATE
- DIA DIAMETER
- DIAG DIAGONAL
- DIM DIMENSIONS
- DWG DRAWING
- EF EACH FACE
- EL ELEVATION
- EQ EQUAL
- EW EACH WAY
- EX EXISTING
- EXP EXPANSION
- EXT EXTERIOR
- FF FINISH FLOOR
- FDN FOUNDATION
- FTG FOOTING
- GALV GALVANIZED
- GB GRADE BEAM
- HORIZ HORIZONTAL
- INT INTERIOR
- JOINT JOINT
- LLBB LONG LEGS BACK TO BACK
- LSH LONG SIDE HORIZONTAL
- LSV LONG SIDE VERTICAL
- MAX MAXIMUM
- MECH MECHANICAL
- MIN MINIMUM
- MP MASONRY PIER
- NIC NOT IN CONTRACT
- OC ON CENTER
- OD OVERFLOW ROOF DRAIN
- OH OPPOSITE HAND
- OPNG OPENING
- PC PRECAST
- PERIM PERIMETER
- PL PLATE
- PSF POUNDS PER SQUARE FOOT
- PSI POUNDS PER SQUARE INCH
- RD ROOF DECK
- REF REFERENCE
- REINF REINFORCING
- REQD REQUIRED
- RTU ROOF TOP UNIT
- SIM SIMILAR
- SLBB SHORT LEG BACK TO BACK
- SOG SLAB ON GRADE
- SP SPACING
- TOC TOP OF CONCRETE
- TOF TOP OF FOOTING
- TOSLAB TOP OF SLAB
- TOS TOP OF STEEL
- TYP TYPICAL
- UON UNLESS OTHERWISE NOTED
- VERT VERTICAL
- VF VERIFY IN FIELD
- W/O WITHOUT
- WWF WELDED WIRE FABRIC



ISOMETRIC VIEW  
NOT TO SCALE

SHEET #	SHEET TITLE
S.001	ABBREVIATIONS AND SYMBOLS
S.002	GENERAL NOTES
S.003	SPECIAL INSPECTIONS
S.101	FRAMING PLANS
S.200	BUILDING ELEVATIONS
S.201	WALL ELEVATIONS
S.301	TYPICAL CONCRETE DETAILS
S.302	FOUNDATION DETAILS
S.303	FOUNDATION SECTIONS
S.501	STEEL SECTIONS AND DETAILS
S.502	STEEL SECTIONS AND DETAILS
S.503	STEEL SECTIONS AND DETAILS
S.700	SECTIONS AND DETAILS
S.701	SECTIONS AND DETAILS





Table with 3 columns: #, DESCRIPTION, DATE. Row 1: 5, Bid Set, 02/07/2025.

STATEMENT OF SPECIAL INSPECTIONS - STRUCTURAL STEEL. Table with columns: INSPECTION TASK, INSPECTION FREQUENCY (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, RESPONSIBLE AGENT. Includes sections for Inspection of Steel Fabricated Items, Inspection of Bolting, and Inspection of Welding.

SPECIAL INSPECTION REQUIREMENTS - FIRE RESISTANT MATERIALS. Table with columns: TASK, INSPECTION FREQUENCY (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, RESPONSIBLE AGENT. Includes tasks for Sprayed Fire Resistant Materials and Mastic and Intumescent Fire-Resistant Coatings.

SPECIAL INSPECTION REQUIREMENTS - OPEN-WEB STEEL JOISTS AND JOIST GIRDERS. Table with columns: TASK, INSPECTION FREQUENCY (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, RESPONSIBLE AGENT. Includes tasks for Installation of Open-Web Steel Joists and Joist Girders.

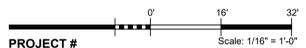
SPECIAL INSPECTION REQUIREMENTS - SOILS AND FOUNDATIONS. Table with columns: TASK, INSPECTION FREQUENCY (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, RESPONSIBLE AGENT. Includes tasks for verifying materials, excavations, and compacted fill.

SPECIAL INSPECTION REQUIREMENTS - MASONRY: LEVEL B QUALITY ASSURANCE. Table with columns: TASK, INSPECTION FREQUENCY (CONTINUOUS, PERIODIC), REFERENCE CRITERIA (MBC SECTION, TMS 402, TMS 602), RESPONSIBLE AGENT. Includes tasks for compliance, mortar joints, reinforcement, and grouting.

STATEMENT OF SPECIAL INSPECTIONS - CONCRETE CONSTRUCTION. Table with columns: TASK, INSPECTION FREQUENCY (CONTINUOUS, PERIODIC), REFERENCED STANDARD, IBC REFERENCE, RESPONSIBLE AGENT. Includes tasks for reinforcement, bar welding, anchors, and concrete placement.

STATEMENT OF SPECIAL INSPECTIONS - STEEL ELEMENTS OF COMPOSITE CONSTRUCTION. Table with columns: INSPECTION TASK, INSPECTION TYPE (QC, QA), REFERENCED STANDARD, RESPONSIBLE AGENT. Includes tasks for concrete placement and quality control.

SPECIAL INSPECTIONS. List of 7 items detailing inspection requirements, including performance of special inspections, designation of responsible agent, and testing procedures for structural members.



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PROJECT

**West Michigan  
Hispanic  
Chamber of  
Commerce- HQ**

1111 Godfrey Ave, SW  
Grand Rapids, MI 49507

CONSULTANT

**RESURGET  
ENGINEERING**

DETROIT • SAN FRANCISCO

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CONSULTING STRUCTURAL ENGINEERS  
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PROFESSIONAL SEAL



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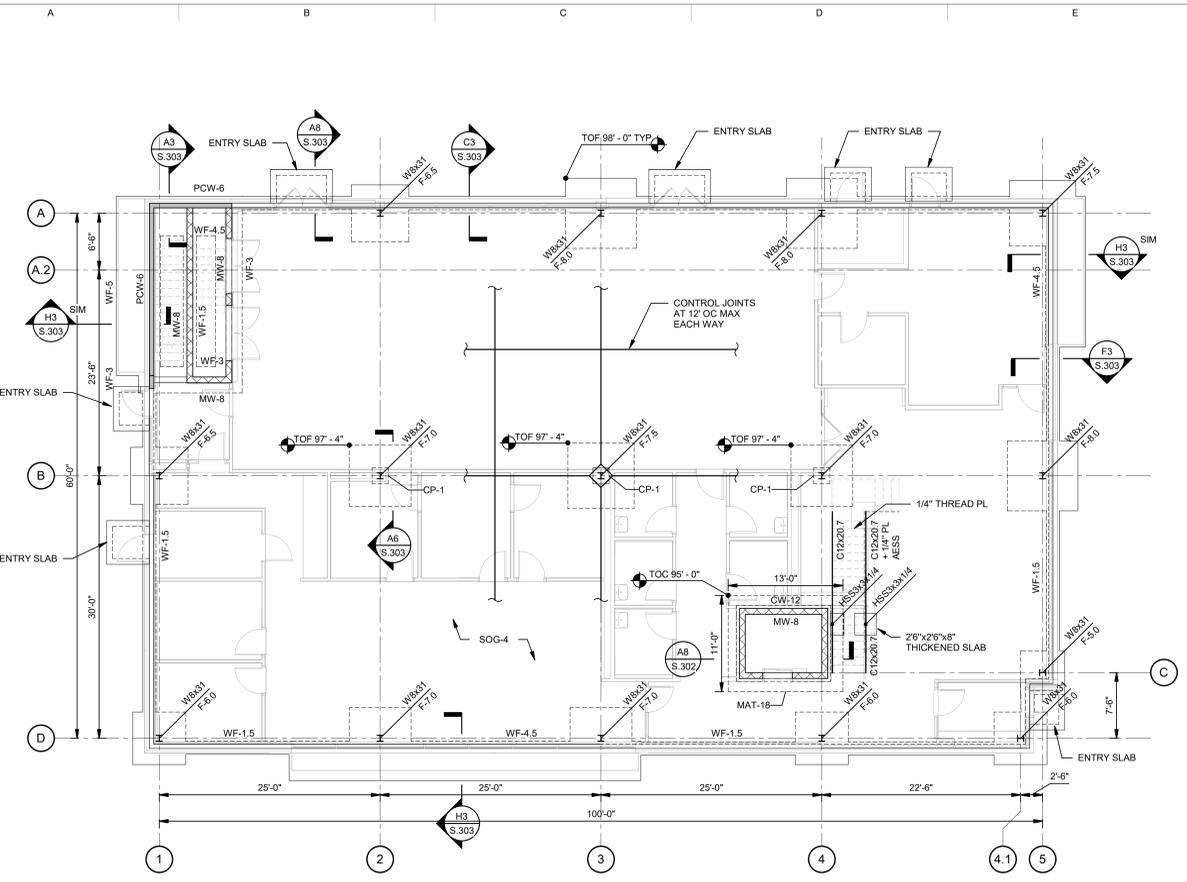
#	DESCRIPTION	DATE
5	Bid Set	02/07/2025

KEY PLAN

SHEET TITLE  
**FRAMING PLANS**

PROJECT #  
**24094**

SHEET #  
**S.101**



**FOUNDATION/SLAB ON GRADE NOTES:**

- REFERENCE ELEVATION 100'-0" ESTABLISHED ELEVATIONS:  
FINISH FIRST FLOOR EL 100'-0" UON.  
TOP OF FOOTING EL 98'-0" UON.
- SLAB ON GRADE TYPES:  
SOG-4: 4" CONCRETE SLAB ON GRADE WITH 4x4-W2.9 x W2.9 WWF PLACED 2" FROM TOP, VAPOR RETARDER ON 6" COMPACTED GRANULAR FILL.
- REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:  
S.002 FOR GENERAL NOTES  
S.301 FOR CONCRETE DETAILS  
S.302 FOR FOUNDATION SCHEDULES AND TYPES  
S.401 FOR MASONRY SECTIONS AND DETAILS  
S.50X FOR STEEL SECTIONS AND DETAILS
- REFER TO ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS FOR HOUSEKEEPING AND/OR EQUIPMENT PADS. CURB SIZES AND LOCATIONS. SIZES AND LOCATIONS OF PADS SHALL BE VERIFIED W/APPROVED MANUFACTURERS EQUIPMENT SHOP DRAWINGS PRIOR TO FABRICATION.
- DIMENSIONS INDICATED THIS (V) SHALL BE VERIFIED W/ APPROVED MANUFACTURERS EQUIPMENT SHOP DRAWINGS PRIOR TO FABRICATION.
- FOUNDATION DRAINAGE PIPE DIAMETER TO BE NOMINAL 6" UNLESS OTHERWISE NOTED.
- FIELD LOCATE EXISTING UNDERGROUND UTILITIES, PIPING, etc. PRIOR TO PLACEMENT OF FOUNDATIONS. NOTIFY ENGINEER OF ANY INTERFERENCE WHICH MIGHT REQUIRE RELOCATION AND/OR MODIFICATION OF FOUNDATIONS.
- WALLS:  
PCW-8: 8" CONCRETE PRECAST WALL  
PCW-6: 6" CONCRETE PRECAST WALL
- MAT-18: 18" THICK CONCRETE WITH #5@12" OC TOP AND BOTTOM BARS EACH WAY

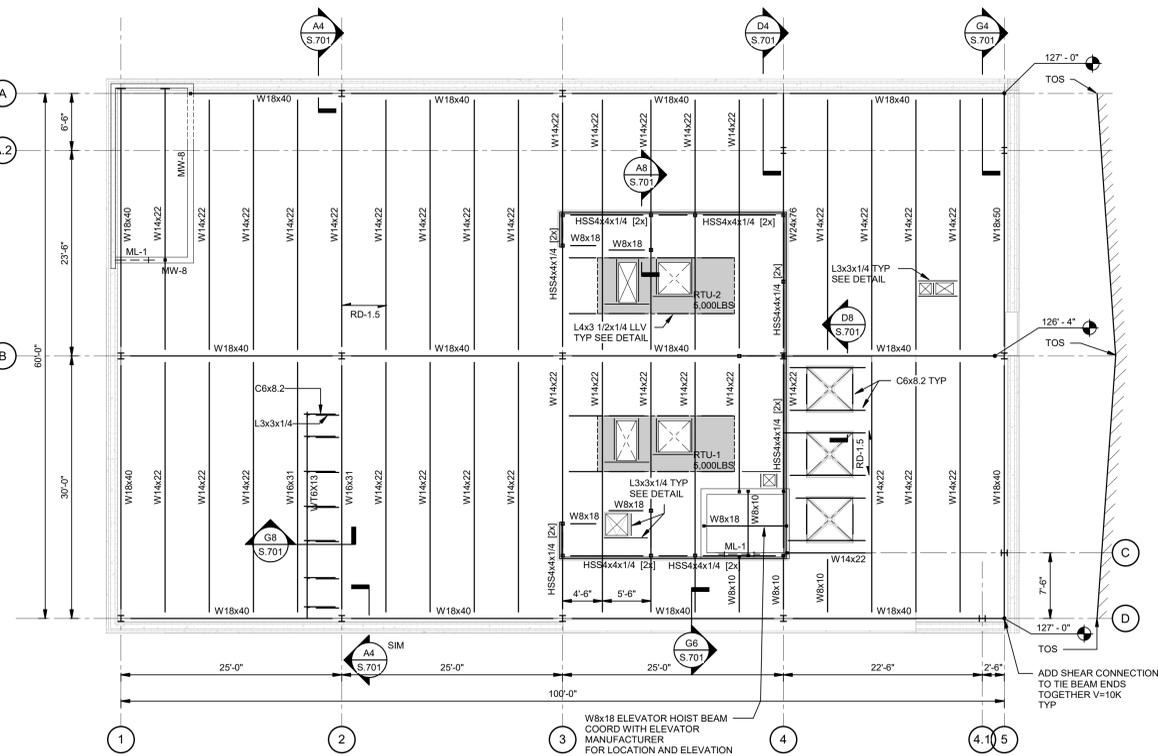
**SECOND FLOOR FRAMING NOTES:**

- REFERENCE ELEVATION 100'-0" ESTABLISHED ELEVATIONS:  
FINISH SECOND FLOOR EL 114'-0" UON.  
SECOND FLOOR TOP OF STEEL EL 113'-6 1/2" UON.
- SLAB TYPES:  
CS-5.5: 3 1/2" NORMAL WEIGHT CONCRETE ON 2" 20 GA GALVANIZED COMPOSITE METAL DECK (MIN 3 SPAN CONT) REINFORCED WITH 5#6-W2.1 x W2.1 WWF PLACED 1" FROM TOP. TOTAL THICKNESS = 5 1/2".
- [X] INDICATES MINIMUM NUMBER OF 3/4"x4 1/2" LONG HEADED SHEAR STUDS WELDED TO TOP OF BEAMS AND GIRDERS AS REQUIRED BY AISC.
- REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:  
S.40X FOR MASONRY SECTIONS AND DETAILS  
S.50X FOR STEEL FRAMING SECTIONS AND DETAILS.
- BEAMS SHALL BE EQUALLY SPACED WITHIN A BAY UNLESS OTHERWISE NOTED.
- AT FLOOR OPENINGS THE DIMENSION FROM THE EDGE OF SLAB TO THE CENTERLINE TO ADJACENT BEAM SHALL BE 6" UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS FOR HOUSEKEEPING AND/OR EQUIPMENT PADS. CURB SIZES AND LOCATIONS. SIZES AND LOCATIONS OF PADS SHALL BE VERIFIED W/APPROVED MANUFACTURERS EQUIPMENT SHOP DRAWINGS PRIOR TO FABRICATION.
- DIMENSIONS INDICATED THIS (V) SHALL BE VERIFIED W/APPROVED MANUFACTURERS EQUIPMENT SHOP DRAWINGS PRIOR TO FABRICATION.

**ROOF FRAMING NOTES:**

- REFERENCE ELEVATION 100'-0" ESTABLISHED ELEVATIONS:  
UNDERSIDE OF DECK EL 127'-0" AT HIGH SIDES (A AND D LINES) AND 126'-4" AT VALLEY ALONG B LINE UON.
- METAL ROOF DECK TYPES:  
RD-1.5: 1.5" 20GA MINIMUM WIDE RIB GALVANIZED METAL ROOF DECK (MIN 3 SPAN CONTINUOUS).
- REFER TO THE FOLLOWING FOR ADDITIONAL INFORMATION:  
S.002 FOR GENERAL NOTES  
S.201 FOR SHEAR WALL ELEVATIONS  
S.50X FOR STEEL FRAMING SECTIONS AND DETAILS
- STEEL JOISTS OR BEAMS IN BAY SHALL BE EQUALLY SPACED WITHIN A BAY UNLESS OTHERWISE NOTED.
- AT ROOF OPENINGS THE DIMENSION FROM THE EDGE OF DECK TO THE BACK OF ANGLE AND THE DIMENSION FROM THE EDGE OF DECK TO THE EDGE OF THE TOP FLANGE OF ADJACENT BEAM SHALL BE 0" UNLESS OTHERWISE NOTED.
- DIMENSIONS INDICATED THIS (V) SHALL BE VERIFIED W/ APPROVED MANUFACTURERS EQUIPMENT SHOP DRAWINGS PRIOR TO FABRICATION.
- IN CASES WHERE MECHANICAL OR ELECTRICAL EQUIPMENT LOADING ON APPROVED SHOP DRAWINGS EXCEED THE DESIGN LOAD INDICATED ON THE DESIGN DRAWING, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO COMMENCING WITH THE WORK.
- BEAMS SUPPORTING STEEL JOISTS ARE TO BE DROPPED 2" FROM TOP OF STEEL ELEVATION

**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH



**ROOF FRAMING PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH



**2ND LEVEL FRAMING PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH

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PROJECT  
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KEY PLAN

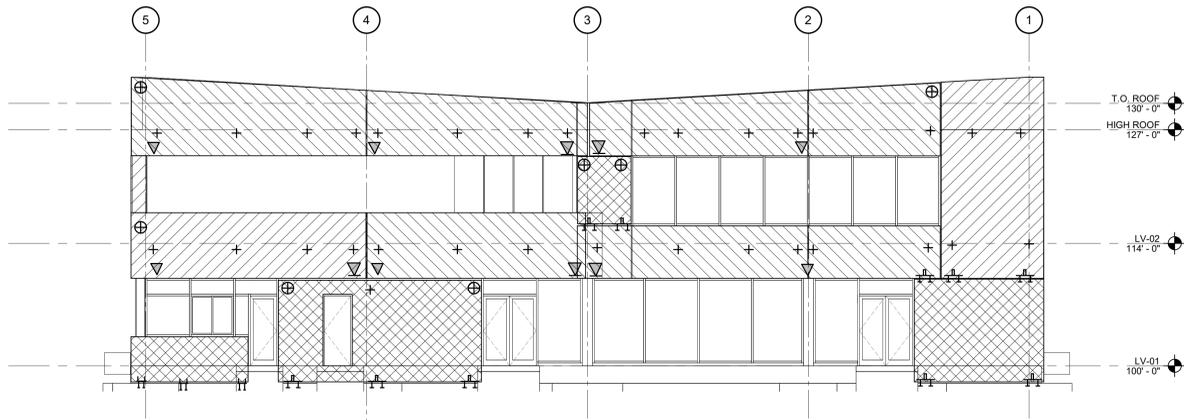
SHEET TITLE  
**BUILDING ELEVATIONS**

PROJECT #  
**24094**

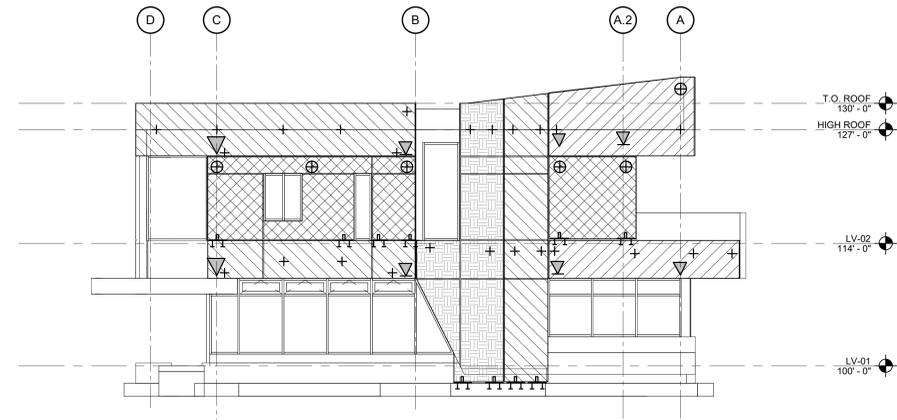
SHEET #  
**S.200**

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

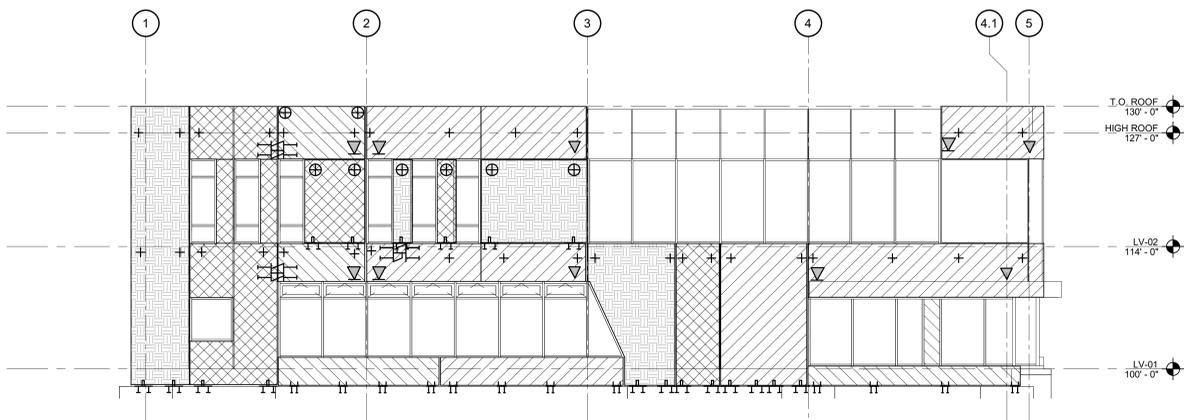
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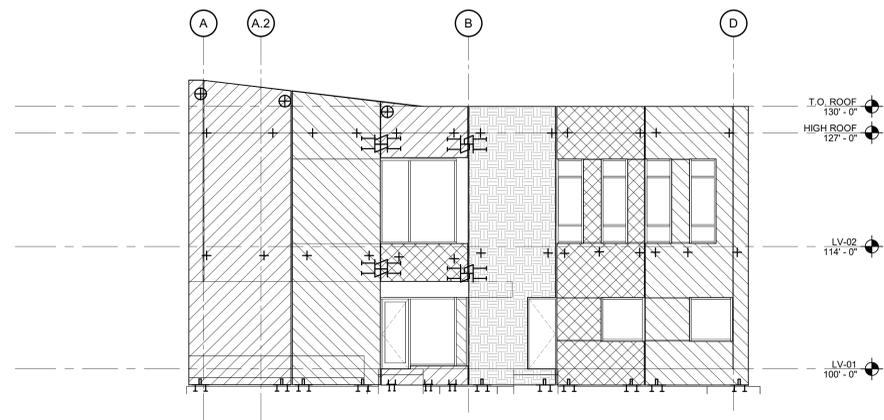
**A3 NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**G3 EAST ELEVATION**  
SCALE: 1/8" = 1'-0"



**B7 SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**G7 WEST ELEVATION**  
SCALE: 1/8" = 1'-0"

PRECAST CONNECTION SCHEDULE	
MARK	CONNECTION TYPE
+	LATERAL CONNECTION, PRECAST TO STEEL, FOR OUT OF PLANE WIND/SEISMIC LOADS. NO RESTRAINT IN VERTICAL OR HORIZONTAL DIRECTIONS.
▽	GRAVITY SUPPORT, PRECAST TO STEEL, SUPPORT IN VERTICAL AND HORIZONTAL DIRECTION.
▽	GRAVITY SUPPORT, PRECAST TO STEEL, SUPPORT IN VERTICAL DIRECTION ONLY.
⊥	GRAVITY SUPPORT AT BASE, SUPPORTS VERTICAL, HORIZONTAL AND LATERAL LOADS
⊥	GRAVITY SUPPORT BETWEEN PANELS, SUPPORT IN VERTICAL AND HORIZONTAL DIRECTION
⊥	GRAVITY SUPPORT BETWEEN PANEL, SUPPORT IN VERTICAL DIRECTION ONLY
⊕	LATERAL SUPPORT BETWEEN PANEL, SUPPORT FOR OUT OF PLANE WIND/SEISMIC LOADS.
⊥	GRAVITY SUPPORT AT BASE WITH MOMENT RESTRAINT, SUPPORTS VERTICAL, HORIZONTAL, SHEAR AND MOMENT A DUE TO LATERAL LOADS

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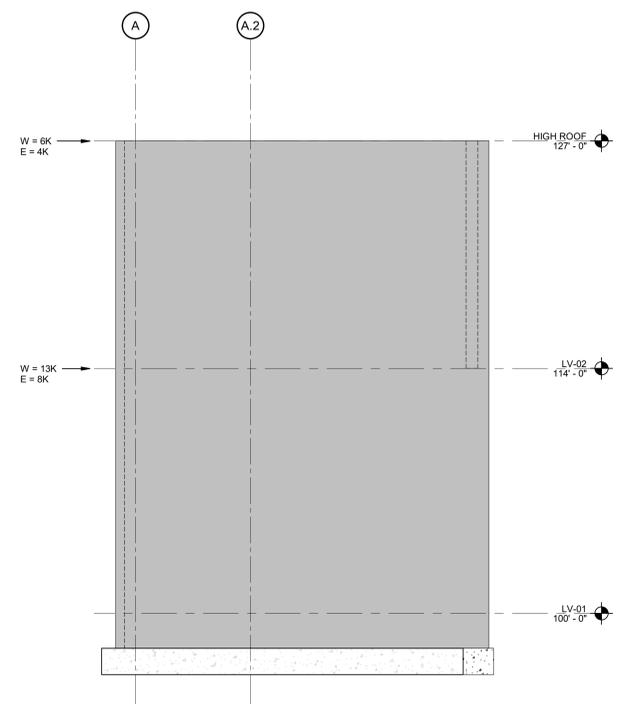
#### KEY PLAN

#### SHEET TITLE WALL ELEVATIONS

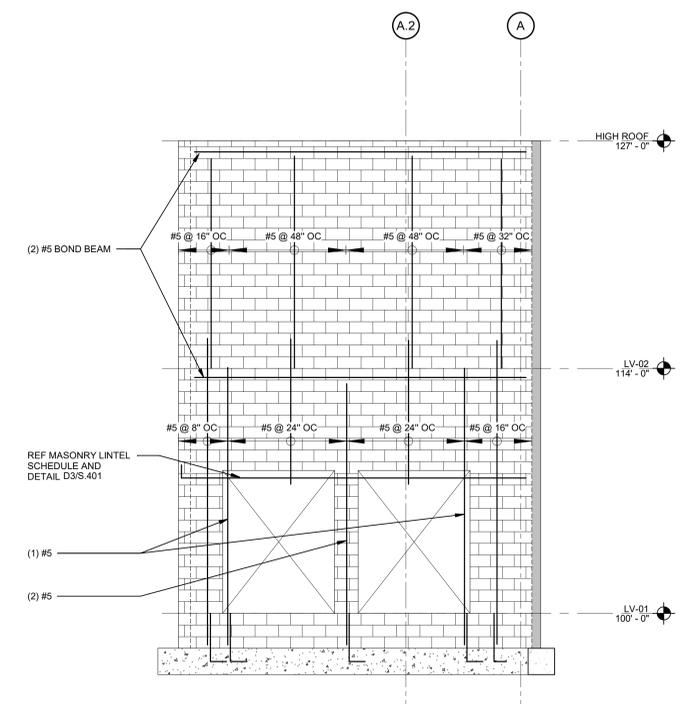
PROJECT # 24094

SHEET #

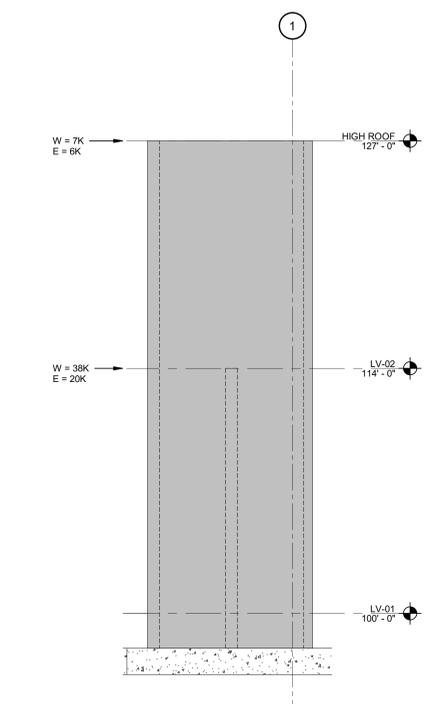
## S.201



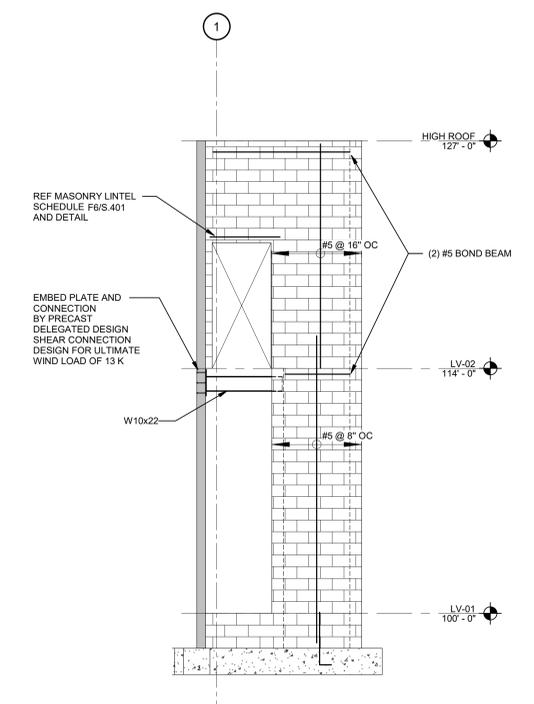
**A4**  
**S.101** WEST WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



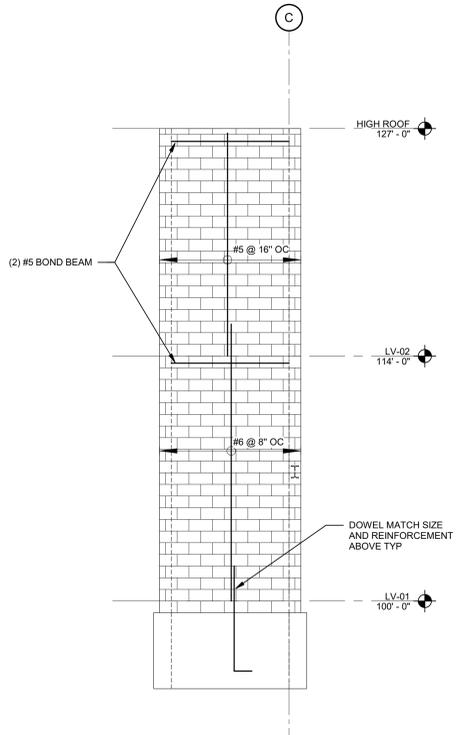
**D4**  
**S.101** EAST WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



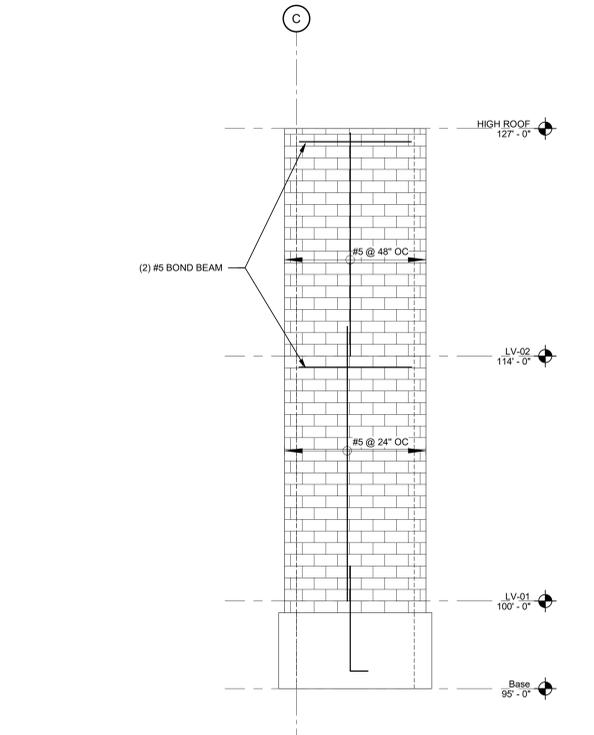
**F4**  
**S.101** NORTH WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



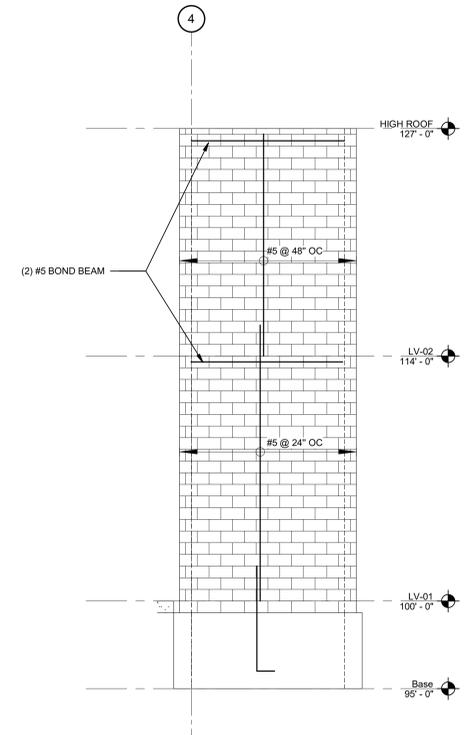
**J4**  
**S.101** SOUTH WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



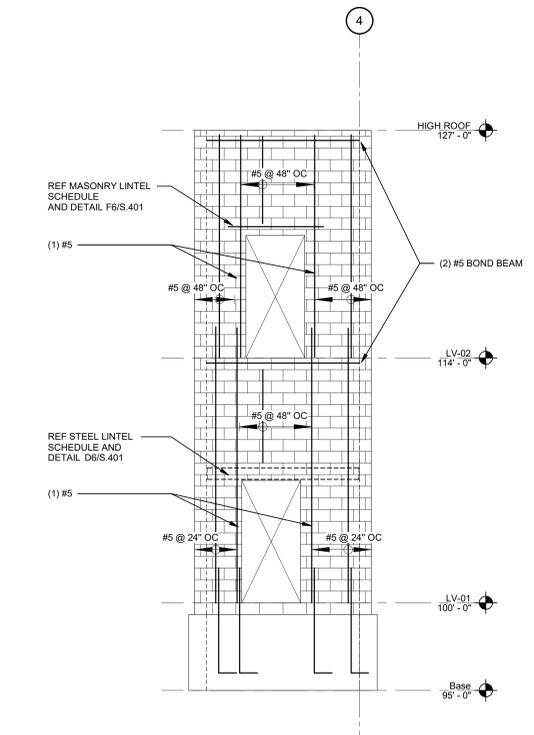
**A8**  
**S.101** ELEVATOR WEST WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



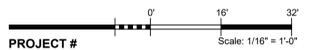
**D8**  
**S.101** ELEVATOR EAST WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



**F8**  
**S.101** ELEVATOR NORTH WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



**J8**  
**S.101** ELEVATOR SOUTH WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



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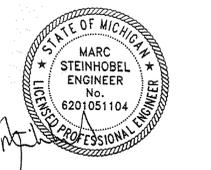
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Table with 3 columns: #, DESCRIPTION, DATE. Row 1: 5 Bid Set, 02/07/2025.

Large empty table with 3 columns: #, DESCRIPTION, DATE.

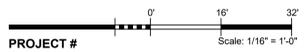
KEY PLAN

Large empty table for key plan details.

SHEET TITLE  
**TYPICAL CONCRETE DETAILS**

PROJECT #  
24094

SHEET #  
**S.301**



TENSION LAP SPlice LENGTHS (IN) table with columns for BAR SIZE DESIGNATION, LAP CLASS, and CASE 1/CASE 2 for f'c = 4000, 6000, 8000 psi.

TENSION DEVELOPMENT LENGTHS (IN) table with columns for BAR SIZE DESIGNATION, CASE 1/CASE 2 for f'c = 4000, 6000, 8000 psi.

ASTM STANDARD REINFORCING BARS table with columns for BAR SIZE DESIGNATION, AREA, WEIGHT, DIAMETER.

G6 ASTM STANDARD REINFORCING BARS  
SCALE: 12" = 1'-0"

HOOKEED BAR DEVELOPMENT LENGTH, Ldh (IN) table with columns for BAR SIZE DESIGNATION, METRIC, and f'c = 4000 PSI.

- HOOKEED BAR DEVELOPMENT NOTES:  
1. THE HOOKEED BAR DEVELOPMENT LENGTHS APPLY TO NORMAL WEIGHT CONCRETE, FOR LIGHTWEIGHT CONCRETE Ldh SHALL NOT BE LESS THAN 10 db, 7 1/2", AND 1.3 TIMES THE SPECIFIED LENGTH.  
2. HOOKEED BAR DEVELOPMENT LENGTHS APPLY TO MEMBERS WITH:  
A. SIDE COVER >= 2 1/2 INCHES  
B. END CONCRETE COVER (90° HOOKS) >= 2 INCHES  
3. FOR 180° HOOKS AT RIGHT ANGLES TO EXPOSED SURFACE, PROVIDE 2 INCHES MINIMUM COVER TO TAIL.  
4. THE TABLE APPLIES FOR 60 KSI REBAR. FOR 80 KSI REBAR MULTIPLY ALL LENGTHS BY 1.33.  
5. FOR EPOXY-COATED REBAR, MULTIPLY ALL LENGTHS BY 1.2.

G8 HOOKEED BAR DEVELOPMENT LENGTH (Ldh) SCHEDULE  
SCALE: 1" = 1'-0"

STANDARD HOOK GEOMETRY (EXCEPT FOR STIRRUPS, TIES, HOOPS) table with columns for TYPE OF STANDARD HOOK, BAR SIZE, MINIMUM INSIDE BEND DIAMETER D (IN), STRAIGHT EXTENSION Lext (IN), and TYPE OF STANDARD HOOK.

STANDARD HOOK GEOMETRY FOR STIRRUPS, TIES, HOOPS table with columns for TYPE OF STANDARD HOOK, BAR SIZE, MINIMUM INSIDE BEND DIAMETER D (IN), STRAIGHT EXTENSION Lext (IN), and TYPE OF STANDARD HOOK.

HEADED BAR DEVELOPMENT LENGTHS (IN) table with columns for BAR SIZE DESIGNATION, METRIC, and f'c = 4000 PSI.

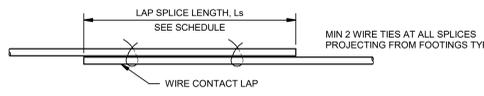
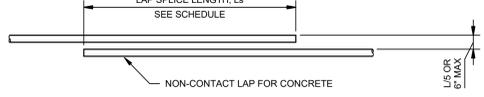
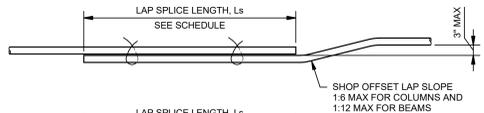
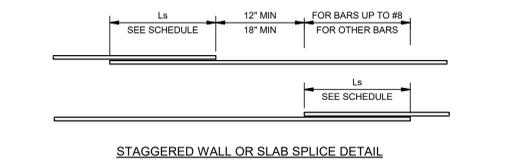
- HEADED BAR DEVELOPMENT NOTES:  
1. HEADED BAR DEVELOPMENT LENGTHS APPLY TO 60 KSI REBAR ONLY  
2. HEADED BAR DEVELOPMENT LENGTHS APPLY TO NORMAL WEIGHT CONCRETE. HEADED BARS SHALL NOT BE USED IN LIGHT WEIGHT CONCRETE.  
3. NET BEARING AREA OF HEAD SHALL NOT BE LESS THAN 4 TIMES BAR AREA  
4. CLEAR SPACING BETWEEN BARS SHALL NOT BE LESS THAN 4 TIMES BAR DIAMETER  
5. SMALLER DEVELOPMENT LENGTHS MAY BE SUBMITTED FOR REVIEW BY SEOR IF JUSTIFIED BY TESTING AND AN ICBO TEST REPORT IS PROVIDED  
6. FOR EPOXY-COATED REBAR, MULTIPLY ALL LENGTHS BY 1.2

D6 HEADED BAR DEVELOPMENT LENGTHS  
SCALE: 1" = 1'-0"

EPOXY REBAR DOWEL SCHEDULE table with columns for REBAR SIZE, EMBEDMENT DEPTH (INCH) UON, and TEST LOAD (KIPS).

- NOTES:  
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ICC REPORT  
2. MINIMUM EDGE DISTANCE SHALL BE 1.5 x EMBEDMENT  
3. DETAIL TO BE USED ONLY WHERE APPROVED BY SEOR

D8 EPOXY DOWEL OPTION  
SCALE: 1" = 1'-0"



A4 TYPICAL LAP SPLICE  
SCALE: NTS

TENSION DEVELOPMENT LENGTHS, Ld (IN) table with columns for BAR SIZE DESIGNATION, CASE 1, CASE 2 for f'c = 4000 PSI.

TENSION LAP SPlice LENGTHS, Ls (IN) table with columns for BAR SIZE DESIGNATION, LAP CLASS, CASE 1, CASE 2 for f'c = 4000 PSI.

NOTES:

1. DETERMINE DEVELOPMENT LENGTH (Ld) OR LAP SPLICE LENGTH (Ls) BASED ON BAR POSITION AS DEFINED:

CASE 1:

- BEAMS AND COLUMNS:  
• CONCRETE COVER >= db  
• CENTER TO CENTER BAR SPACING >= 2 db  
• STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN CODE MINIMUM

OTHER MEMBERS:

- CONCRETE COVER >= db  
• CENTER TO CENTER BAR SPACING >= 3 db

CASE 2:

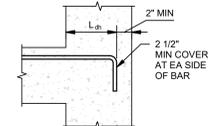
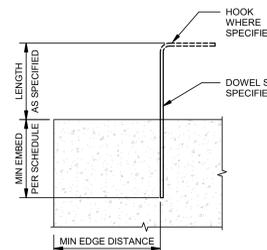
- BEAMS AND COLUMNS:  
• CONCRETE COVER < db  
• CENTER TO CENTER BAR SPACING < 2 db

OTHER MEMBERS:

- CONCRETE COVER < db  
• CENTER TO CENTER BAR SPACING < 3 db

2. "TOP BARS" ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.  
3. ALL DETAILING SHALL COMPLY WITH THIS SCHEDULE UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.  
4. THE BAR DEVELOPMENT LENGTHS AND LAP LENGTHS SHOWN ARE FOR CLASS "B" LAP SPLICES. FOR CLASS "A" SPLICE, DIVIDE THE SPECIFIED CLASS "B" LAP LENGTH BY 1.3.  
5. THE BAR DEVELOPMENT LENGTHS AND LAP SPLICE LENGTHS APPLY TO NORMAL WEIGHT CONCRETE. MULTIPLY THE SPECIFIED LAP LENGTHS BY 1.3 FOR LIGHTWEIGHT CONCRETE.  
6. THE BAR DEVELOPMENT LENGTHS AND LAP SPLICE LENGTHS APPLY TO UNCOATED REINFORCEMENT. FOR EPOXY-COATED REBAR:  
A. CONCRETE COVER < 3db OR CLEAR SPACING < 6db. MULTIPLY ALL LENGTHS BY 1.5.  
B. CONCRETE COVER >= 3db AND CLEAR SPACING >= 6db. MULTIPLY ALL LENGTHS BY 1.2.  
7. A STANDARD HOOK SHALL BE PROVIDED WHERE Ld IS UNATTAINABLE DUE TO SPACE RESTRICTIONS (REFER TO SCHEDULE FOR HOOKEED BAR DEVELOPMENT LENGTH Ldh)  
8. SEE DRAWINGS FOR LAP SPLICE CLASSIFICATION. IF NO LAP SPLICE CLASSIFICATION IS SHOWN PROVIDE CLASS "B" SPLICE.  
9. STAGGER ALL SPLICES WHEREVER POSSIBLE. WHERE CLASS "A" SPLICE IS CALLED FOR ON DRAWING, STAGGER AT LEAST 50% OF THE BARS. ELSE PROVIDE CLASS "B" SPLICE.  
10. WHEN SPLICING BARS OF DIFFERENT SIZE, THE LAP LENGTH SHALL BE BASED ON THE LARGER OF:  
A. THE SPLICE LENGTH OF THE SMALLER BAR  
B. THE DEVELOPMENT LENGTH OF THE LARGER BAR  
11. LAP SPLICES FOR #14 AND #18 BARS ARE NOT PERMITTED. PROVIDE TYPE 2 MECHANICAL SPLICE UON.  
12. CONCRETE WALLS:  
A. LAP SPLICES IN HORIZONTAL REINFORCEMENT SHALL BE STAGGERED 12" MIN  
B. WITH TWO CURTAINS OF REINFORCEMENT, SPLICES SHALL BE STAGGERED 12" MIN APART AT ALTERNATING BARS, 50% AT THE HIGHER LOCATION AND 50% AT THE LOWER LOCATION.  
13. BUNDLED BAR SPLICES:  
A. ENTIRE BUNDLED BARS SHALL NOT BE LAP SPLICED. STAGGER INDIVIDUAL BAR SPLICES.  
B. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL NOT OVERLAP EACH OTHER.  
C. MULTIPLY LAP LENGTH BY 1.2 AT THREE BAR BUNDLES.  
D. MULTIPLY LAP LENGTH BY 1.33 AT FOUR BAR BUNDLES  
14. THE TABLE APPLIES FOR 60 KSI REBAR. FOR 80 KSI REBAR MULTIPLY ALL LENGTHS BY 1.33.

A8 BAR DEVELOPMENT (Ld) AND LAP SPLICE (Ls) LENGTH  
SCALE: 12" = 1'-0"



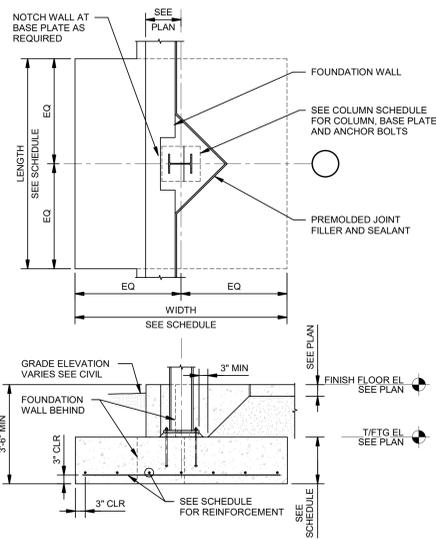
A4 TYPICAL LAP SPLICE  
SCALE: NTS

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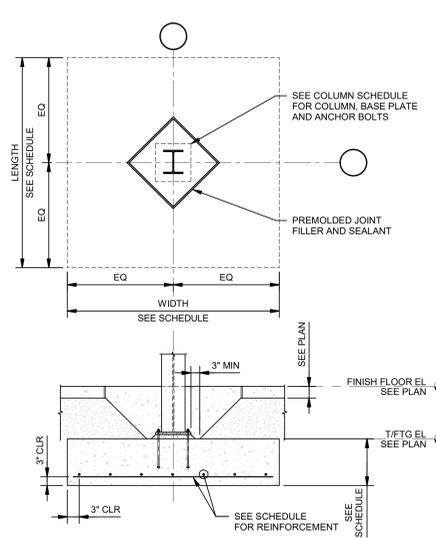
FOOTING SCHEDULE						
MARK	LENGTH	WIDTH	FOUNDATION THICKNESS	REINFORCEMENT EA WAY		COMMENTS
				TOP	BOTTOM	
F-5.0	5'-0"	5'-0"	1'-6"	(5)#5	(5)#5	
F-6.0	6'-0"	6'-0"	1'-6"	(5)#5	(5)#5	
F-6.5	6'-6"	6'-6"	1'-6"	(5)#5	(5)#5	
F-7.0	7'-0"	7'-0"	1'-6"	(7)#5	(7)#5	
F-7.5	7'-6"	7'-6"	1'-6"	(7)#5	(7)#5	
F-8.0	8'-0"	8'-0"	1'-6"	(8)#5	(8)#5	

WALL FOOTING SCHEDULE					
MARK	WIDTH	FOUNDATION THICKNESS	REINFORCING		COMMENTS
			LONGITUDINAL BOTTOM	TRANSVERSE BOTTOM	
WF-1.5	1'-6"	1'-6"	(2)#5	(2)#5	
WF-3	3'-0"	1'-6"	(3)#5	(3)#5	
WF-4.5	4'-6"	1'-6"	(4)#5	(4)#5	#4 @ 12" OC
WF-5	5'-0"	1'-6"	(5)#5	(5)#5	#4 @ 12" OC

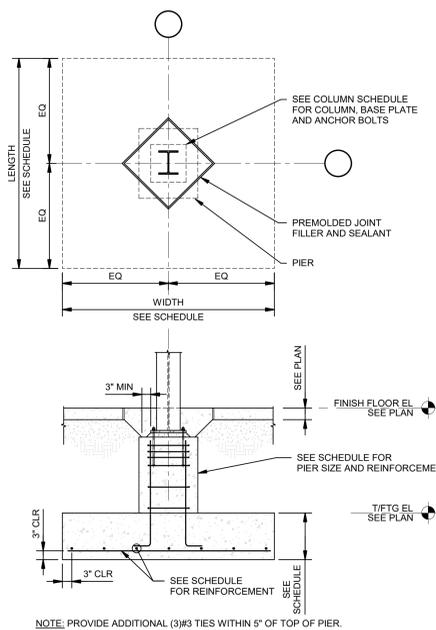
FORMED PIER SCHEDULE					
MARK	LENGTH	WIDTH	REINFORCEMENT		COMMENTS
			TYPE	TIES	
CP-1	1'-10"	1'-10"	C	(8)#7 #3 @ 12	



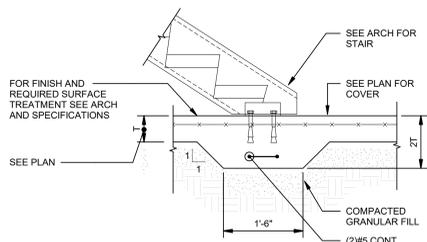
**A4** TYPICAL EXTERIOR COLUMN FOOTING WITHOUT PIER  
SCALE: 1/2" = 1'-0"



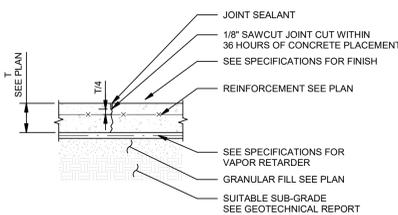
**C4** TYPICAL INTERIOR COLUMN FOOTING WITHOUT PIER  
SCALE: 1/2" = 1'-0"



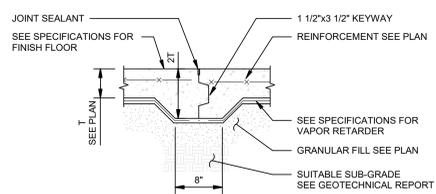
**1** TYPICAL INTERIOR COLUMN FOOTING WITH PIER  
SCALE: 1/2" = 1'-0"



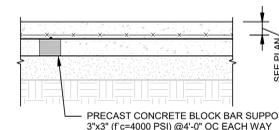
**A6** TYPICAL THICKENED SLAB AT BASE OF STAIRS  
SCALE: 3/4" = 1'-0"



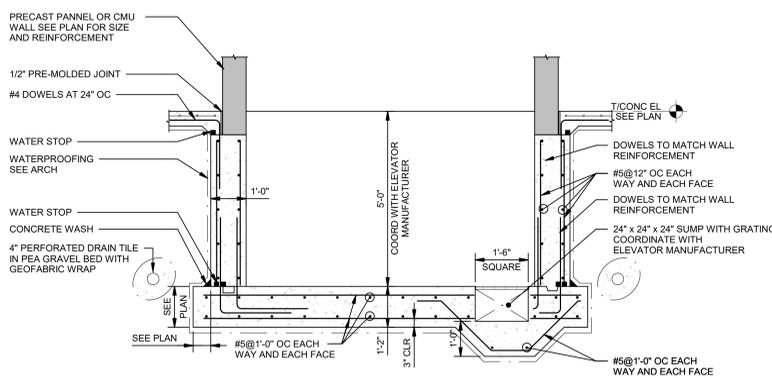
**C6** TYPICAL SLAB CONTROL JOINT  
SCALE: 1" = 1'-0"



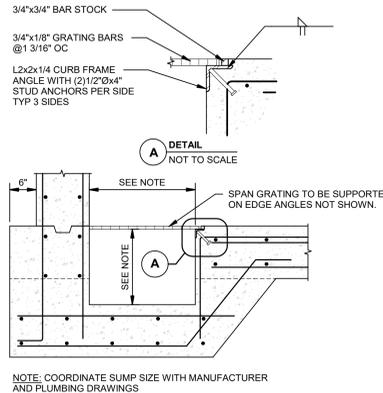
**F6** TYPICAL SLAB CONSTRUCTION JOINT  
SCALE: 1" = 1'-0"



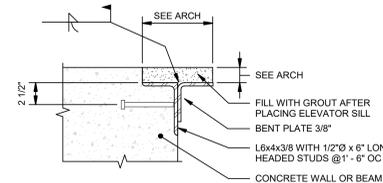
**H6** TYPICAL WWF MESH SUPPORT FOR SLAB ON GRADE  
SCALE: 3/4" = 1'-0"



**A8** TYPICAL ELEVATOR PIT DETAIL  
SCALE: 1/2" = 1'-0"



**C8** TYPICAL ELEVATOR SUMP DETAIL  
SCALE: 3/4" = 1'-0"



**G8** TYPICAL ELEVATOR PIT SILL  
SCALE: 1 1/2" = 1'-0"

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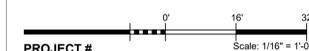
#### KEY PLAN

#### SHEET TITLE FOUNDATION DETAILS

PROJECT #  
24094

SHEET #

**S.302**



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

30x42

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PROJECT

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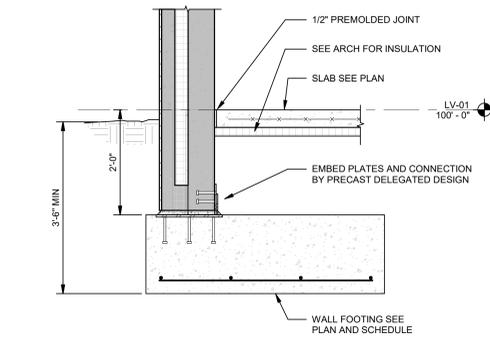
KEY PLAN

SHEET TITLE  
FOUNDATION SECTIONS

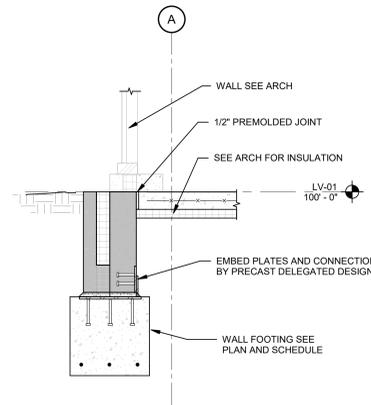
PROJECT #  
24094

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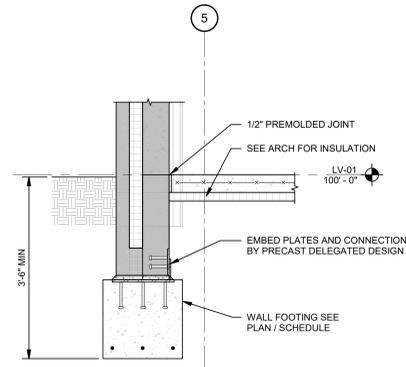
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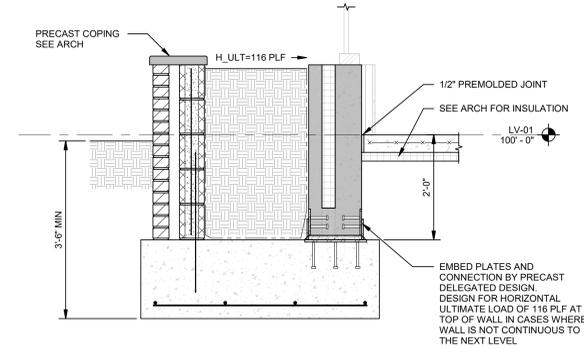
**A3** WALL FOUNDATION AT EXTERIOR SECTION  
SCALE: 3/4" = 1'-0"



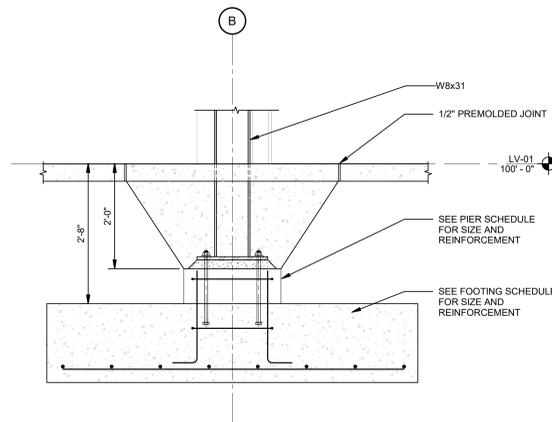
**C3** WALL FOUNDATION AT EXTERIOR SECTION  
SCALE: 3/4" = 1'-0"



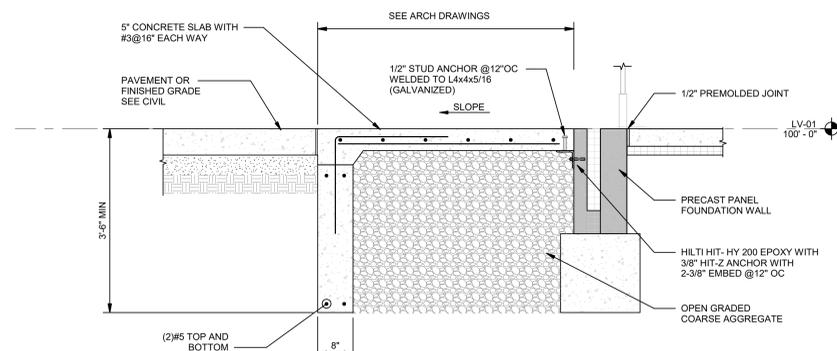
**F3** WALL FOUNDATION AT EXTERIOR SECTION  
SCALE: 3/4" = 1'-0"



**H3** WALL FOUNDATION AT EXTERIOR SECTION  
SCALE: 3/4" = 1'-0"



**A6** FOOTING WITH PIER SECTION  
SCALE: 3/4" = 1'-0"



**A8** ENTRY SLAB SECTION  
SCALE: 3/4" = 1'-0"

- NOTES:
- WIDTH OF ENTRY SLAB TO EXTEND 1'-6" PAST DOOR SWING SIDE AND 6" PAST DOOR HINGE SIDE
  - COORDINATE WITH DOOR SUPPLIER

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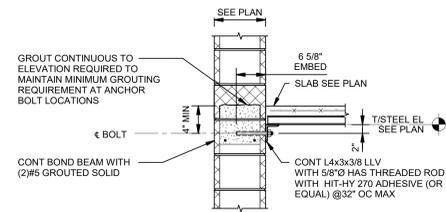
SHEET #

**S.401**

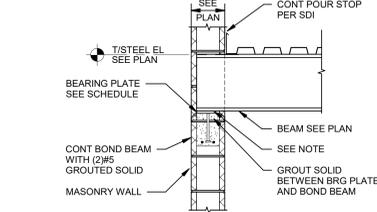
BEARING PLATE SCHEDULE			
BEAM SIZE	SIZE	NO. OF 1/2"Ø x 6" LONG STUD ANCHORS	REMARKS
W8	1/4"x6"x6"	2	-
W10-W12	3/8"x6"x6"	2	-
W16-W18	3/8"x7"x7"	2	-

STEEL AND MASONRY LINTEL SCHEDULE		
MARK	SIZE	REMARKS
SL-1	W8x21 + 3/8" PLATE	
ML-1	8" CMU WITH (2)#5	EXTEND REINF 12" EACH SIDE OF OPENING
ML-2	16" CMU WITH (2)#5	EXTEND REINFORCEMENT FULL LENGTH OF WALL

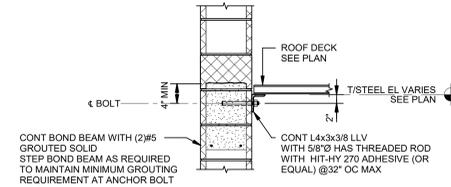
CMU WALL REINFORCING SCHEDULE					
MARK	NOMINAL WALL THICKNESS	FLOOR	HORIZONTAL REINFORCING	VERTICAL REINFORCING	
				1 LAYER	END REINFORCING
MW-8	8"	1ST-2ND	W1.7 LADDER JOINT @ 16" OC	#5 @ 24" OC	(1) # 5 BARS
MW-8	8"	2ND-ROOF	W1.7 LADDER JOINT @ 16" OC	#5 @ 48" OC	(1) # 5 BARS



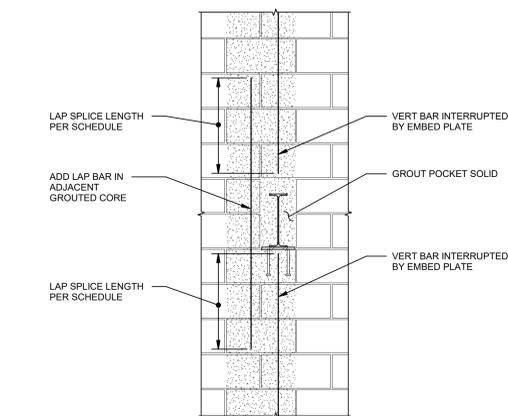
**A3** TYPICAL FLOOR SLAB BEARING ANGLE ON CMU WALL DETAIL  
SCALE: 3/4" = 1'-0"



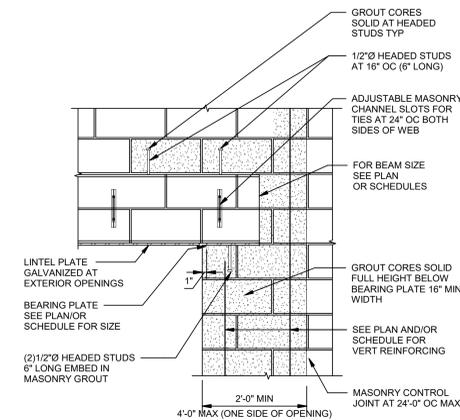
**D3** TYPICAL STEEL BEAM BEARING ON CMU WALL  
SCALE: 3/4" = 1'-0"



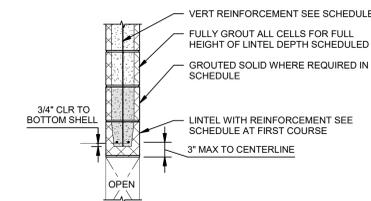
**F3** TYPICAL ROOF DECK BEARING ANGLE ON CMU WALL DETAIL  
SCALE: 3/4" = 1'-0"



**A6** TYPICAL BEAM BEARING DETAIL  
SCALE: 3/4" = 1'-0"

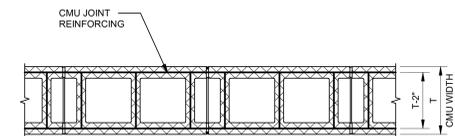


**D6** TYPICAL LINTEL BEARING DETAIL  
SCALE: 3/4" = 1'-0"



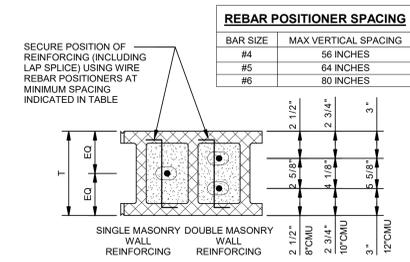
NOTES:  
1. MASONRY LINTELS SHALL BE SHORED DURING CONSTRUCTION AND SHALL REMAIN SHORED UNTIL MASONRY HAS GAINED 100% OF FULL SPECIFIED STRENGTH (f<sub>m</sub>).

**F6** TYPICAL CMU SILL AND LINTEL DETAIL  
SCALE: 3/4" = 1'-0"

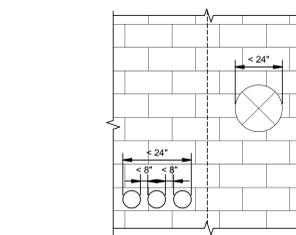


NOTES:  
1. LAP SIDE RODS AT MIN 6" AT SPLICES.  
2. PLACE REINFORCING DIRECTLY ON MASONRY AND PLACE MORTAR OVER WIRES TO FORM BED.  
3. RUN REINFORCING CONTINUOUS IN HORIZONTAL JOINTS AND SPACE 16" OC VERTICAL.  
4. PROVIDE CORNERS AND TEES AT INTERSECTIONS. SEE DETAIL FOR CORNERS AND TEES.  
5. CUT BOTH HORIZONTAL RAILS AT CONTROL AND EXPANSION JOINTS.

**A8** CMU JOINT REINFORCING  
SCALE: 1" = 1'-0"



**D8** TYPICAL MASONRY WALL REINFORCING POSITIONING  
SCALE: 1 1/2" = 1'-0"



NOTE: PENETRATION DO NOT REQUIRE REINFORCEMENT IF OPENING OR GROUP OF OPENINGS ARE LESS THAN 24" WIDE. DO NOT INTERRUPT SCHEDULED VERTICAL REINFORCEMENT. AND ARE SPACED AT LEAST 8" CLEAR FROM AN ADJACENT OPENING. OPENINGS SPACED CLOSER THAN 8" MUST BE CONSIDERED AS ONE OPENING.

**F8** TYPICAL NON-LOAD BEARING CMU WALL PENETRATIONS (<24")  
SCALE: 1/2" = 1'-0"

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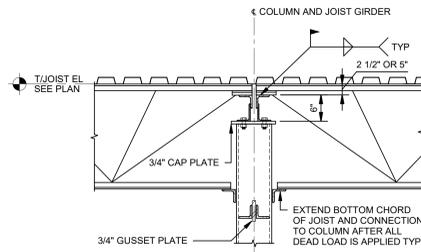
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**S.501**

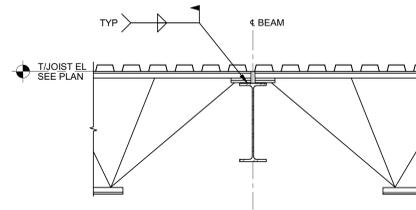
BEAM/GIRDER	PLATE TYPE	EMBED PLATE SIZE			MIN WALL THICKNESS	NUMBER OF STUDS	NUMBER OF ROWS	LRFD CAPACITY (Kips)	
		W (in)	H (in)	T (in)				$f_c=3000$ psi	$f_c=4000$ psi
W8 THRU W10	A	16	16	1/2	10"	4	2	22	25
W12 THRU W14	A	16	20	1/2	10"	4	2	29	34
W16 THRU W18	B	18	24	1/2	10"	9	3	50	55
W21 THRU W24	B	18	32	1/2	10"	9	3	72	75
W27 THRU W30	B	20	40	3/4	12"	12	4	103	117
W33 THRU W36	B	20	48	3/4	12"	15	5	143	161

NOTES:  
1. STUDS ARE 3/4"x8" LONG.  
2. SCHEDULE CAPACITIES REQUIRE ADDITIONAL WALL REINFORCEMENT SEE EMBED PLATE DETAIL.  
3. CONTRACTOR TO NOTIFY ENGINEER WHEN BEAM C IS NOT CENTERED WITH PLATE.  
4. MINIMUM EDGE DISTANCES:  
• Laterally from side of plate = 14"  
• Vertically below bottom of plate = 18"

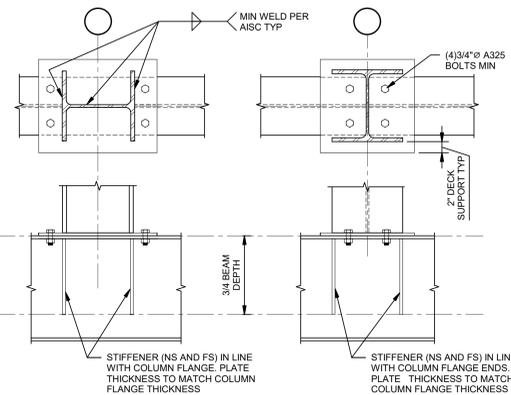
**A3** EMBED PLATES TYPES AND SCHEDULE  
SCALE: 1/2" = 1'-0"



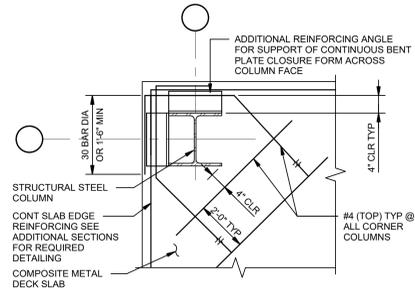
**D3** TYPICAL JOIST/JOIST GIRDER TO COLUMN CONNECTION  
SCALE: 3/4" = 1'-0"



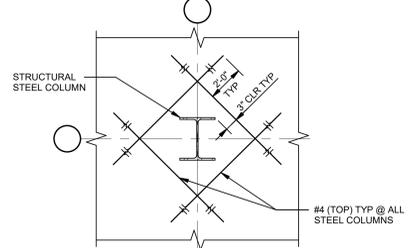
**F3** TYPICAL JOIST TO BEAM CONNECTION  
SCALE: 3/4" = 1'-0"



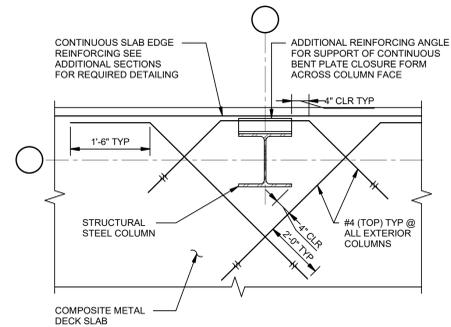
**A5** BASE PLATE DETAIL TYPE - B  
SCALE: 1" = 1'-0"



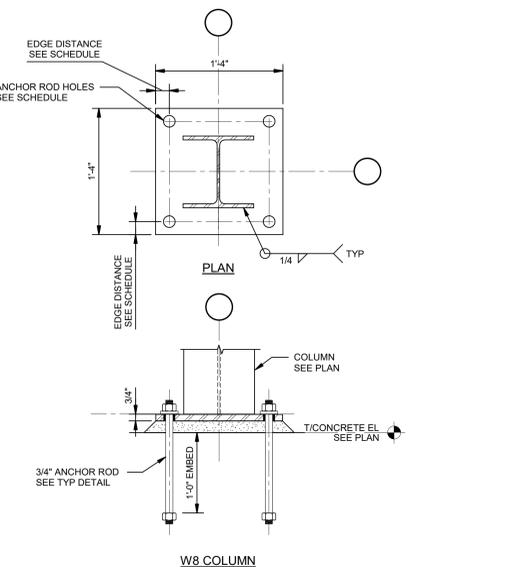
**D5** TYPICAL COMPOSITE SLAB CORNER COLUMN DETAIL  
SCALE: 3/4" = 1'-0"



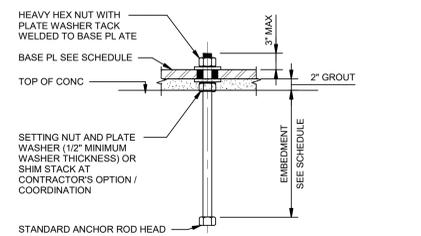
**F5** TYPICAL COMPOSITE SLAB COLUMN DETAIL  
SCALE: 3/4" = 1'-0"



**J5** TYPICAL COMPOSITE SLAB EXTERIOR COLUMN DETAIL  
SCALE: 3/4" = 1'-0"



**A8** BASE PLATE DETAIL TYPE - A  
SCALE: 1" = 1'-0"



**D7** TYPICAL ANCHOR ROD DETAIL  
SCALE: 1" = 1'-0"

BASE PLATE / ANCHOR ROD HOLE AND WASHER SCHEDULE				
ANCHOR ROD DIAMETER (IN)	BASE PLATE HOLE DIAMETER (IN)	MIN WASHER SIZE (IN)	MIN WASHER THICKNESS (IN)	DISTANCE FORM EDGE OF BASE PLATE TO CENTER OF HOLE (IN)
3/4	1 5/16	2	1/4	1 1/2
1	1 13/16	3	3/8	1 1/2

NOTE: CIRCULAR OR SQUARE WASHERS MEETING THE SIZE SHOWN ARE ACCEPTABLE

**D8** BASE PLATE ANCHOR ROD HOLES AND WASHER SCHEDULE  
SCALE: 1" = 1'-0"

Roof Type	Location	BP Type	BP Size	AR Size	AR Embed
HIGH ROOF	126'-0"				
	126'-0"				
LV-02 - T.O. STEEL	113' - 6 1/2"				
	113' - 6 1/2"				
LV-01	100' - 0"				
	100' - 0"				
Column Locations					

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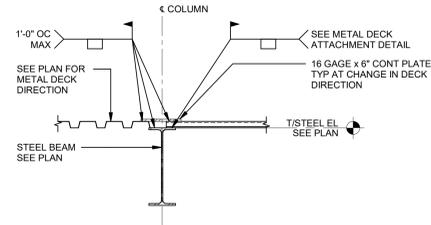
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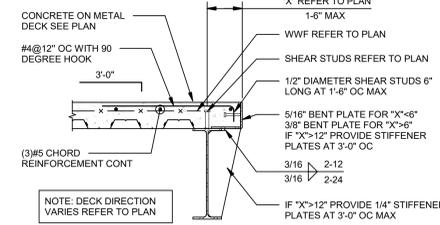
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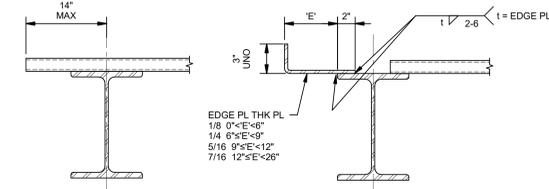
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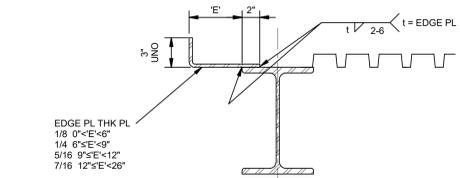
**F2** TYPICAL CHANGE IN DECK DIRECTION AT ROOF  
SCALE: 3/4" = 1'-0"



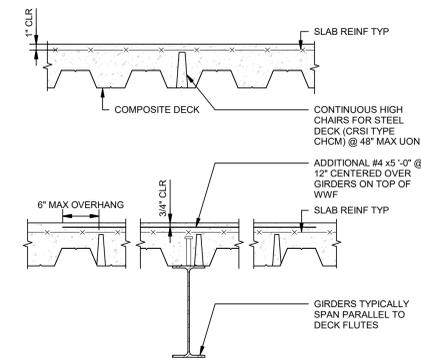
**H2** TYPICAL COMPOSITE SLAB EDGE  
SCALE: 3/4" = 1'-0"



DECK PERPENDICULAR TO BM

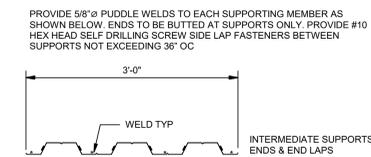


DECK PARALLEL TO BM

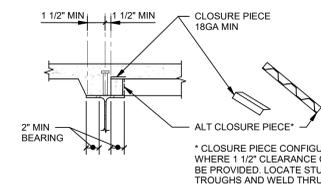


**H4** TYPICAL COMPOSITE SLAB REINFORCEMENT DETAIL  
SCALE: 1" = 1'-0"

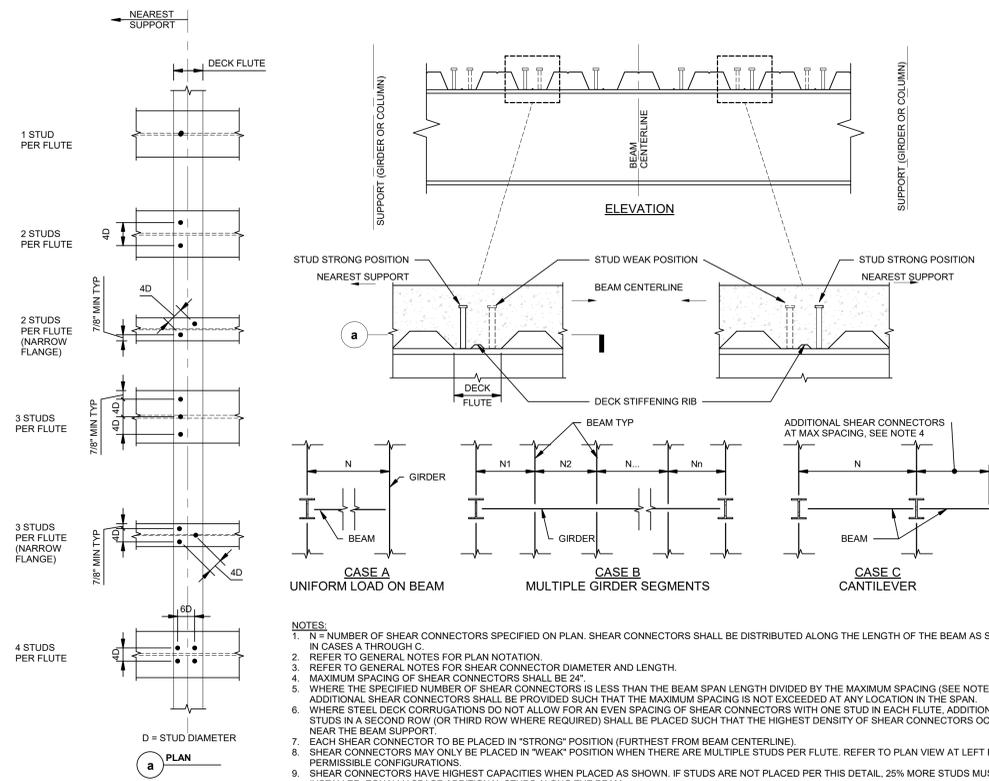
**F4** TYPICAL EDGE W/OUT FILL  
SCALE: 1 1/2" = 1'-0"



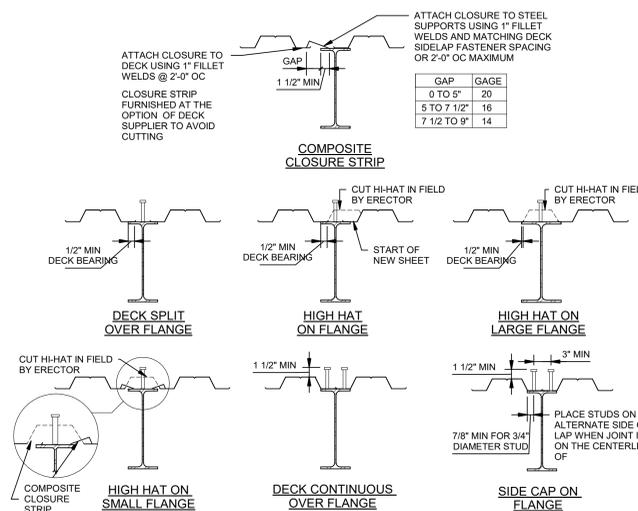
**F6** TYPICAL 2" METAL FLOOR DECK ATTACHMENT DETAIL  
SCALE: 1" = 1'-0"



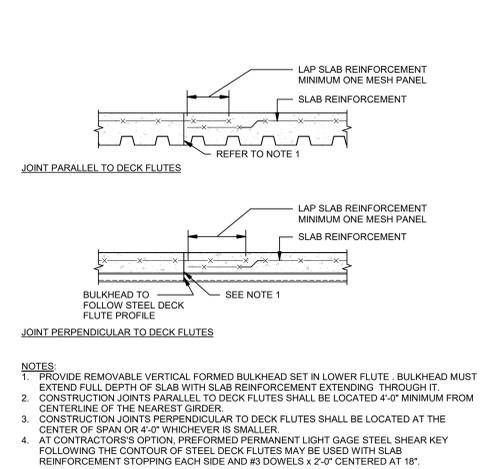
**H6** STUD AT CHANGE OF DECK DIRECTION  
SCALE: 1" = 1'-0"



**A8** TYPICAL SHEAR CONNECTOR PLACEMENT DIAGRAMS - STUDS IN STRONG POSITION  
SCALE: 1" = 1'-0"



**F8** TYPICAL COMPOSITE DECK DETAILS AT GIRDER  
SCALE: 1" = 1'-0"



**H88** CONSTRUCTION DETAIL IN COMPOSITE SLAB DETAIL  
SCALE: 1" = 1'-0"

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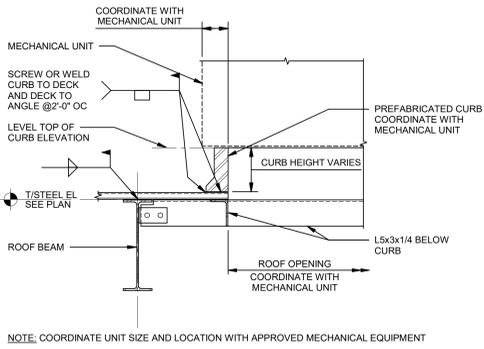
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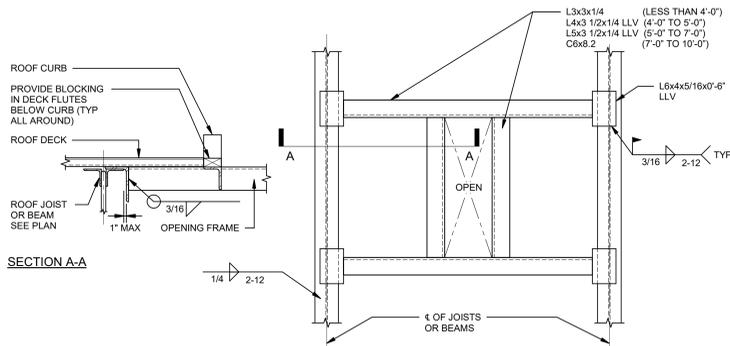
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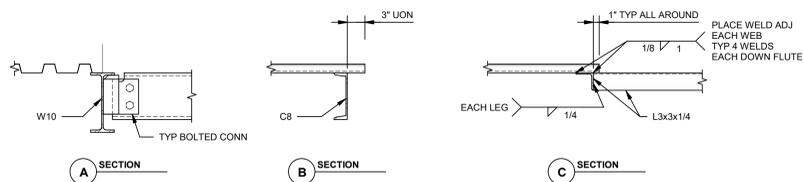
**A2 LIGHT WEIGHT MECHANICAL UNIT PRE-FAB CURB AT BEAM**  
SCALE: 3/4" = 1'-0"



- NOTES:
1. VERIFY NUMBER OF FRAMES, SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS
  2. SUPPORT FRAME TO BE USED WITH EQUIPMENT WEIGHING 2000 LBS OR LESS

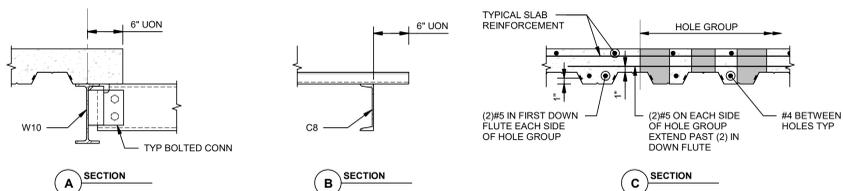
**A4 TYP ROOF OPENING AND RTU SUPPORT FRAME**  
SCALE: 1" = 1'-0"

- NOTES:
1. PRIOR TO CUTTING OPENINGS IN ROOF DECK, INSTALL OPENING REINFORCEMENT AND FRAMING.
  2. CONTRACTOR SHALL COORDINATE OPENING SIZES AND LOCATIONS WITH MEP CONTRACTORS AND ARCH.
  3. OPENING FRAMING SIZES SHOWN ARE TYPICAL MIN SIZE UON ON DRAWINGS.

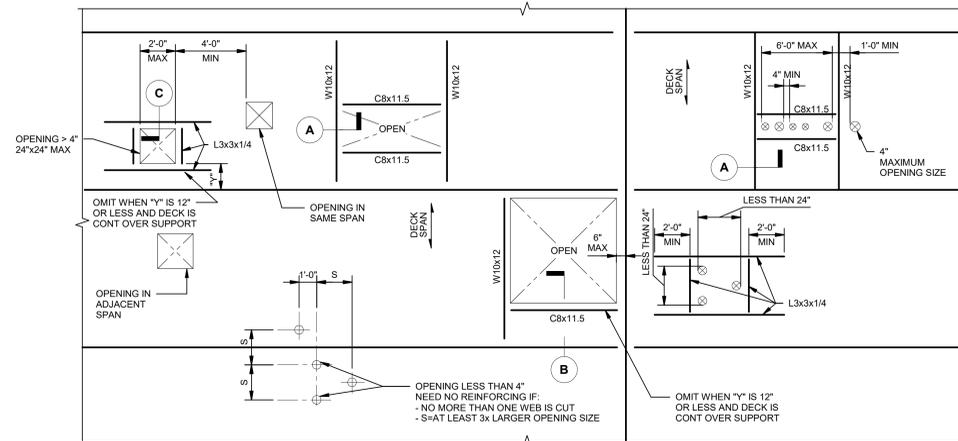


**A6 OPENINGS IN METAL DECK**  
SCALE: 1" = 1'-0"

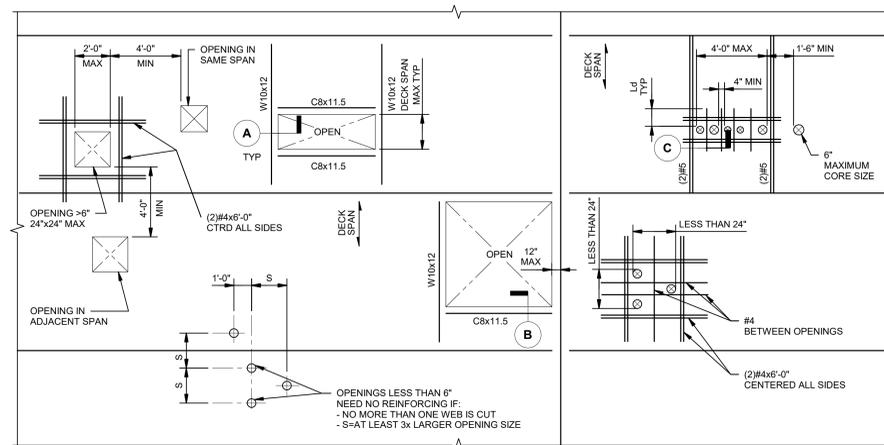
- NOTES:
1. HOLES MAY BE EITHER CANNED OR CORED. IF CORED, THE CONTRACTOR SHALL LAY OUT THE HOLE LOCATIONS AND PROVIDE TRIM REBAR AS SPECIFIED PRIOR TO POURING. HOLE LOCATIONS SHALL BE CLEARLY MARKED SO THAT REBAR WILL NOT BE CUT DURING CORING. IF HOLES ARE TO BE CUT IN THE DECK PRIOR TO THE SLAB POUR, THE CONTRACTOR SHALL PROVIDE STRENGTHENING OR PROPPING IN ACCORDANCE WITH THE DECK MANUFACTURER'S REQUIREMENTS AND THE SPECIAL INSPECTIONS. ANY MISCELLANEOUS STEEL USED TO STRENGTHEN THE METAL DECK SHALL BE INSTALLED ON THE UNDERSIDE OF THE DECK.
  2. CONTRACTOR SHALL COORDINATE OPENING SIZES AND LOCATIONS WITH MEP CONTRACTORS AND ARCH.
  3. EXTEND BARS BEYOND EDGE OF OPENING FOR DISTANCE EQUAL TO Ld, DEVELOPMENT LENGTH.
  4. OPENING FRAMING SIZES SHOWN ARE TYPICAL MIN SIZE UON ON DRAWINGS.



**A8 OPENINGS IN CONCRETE FILLED METAL DECK**  
SCALE: 1" = 1'-0"



**G6 TYPICAL OPENING IN METAL DECK WITHOUT CONCRETE FILL**  
SCALE: 1/4" = 1'-0"



**G8 TYPICAL OPENING IN CONCRETE FILLED METAL DECK**  
SCALE: 1/4" = 1'-0"

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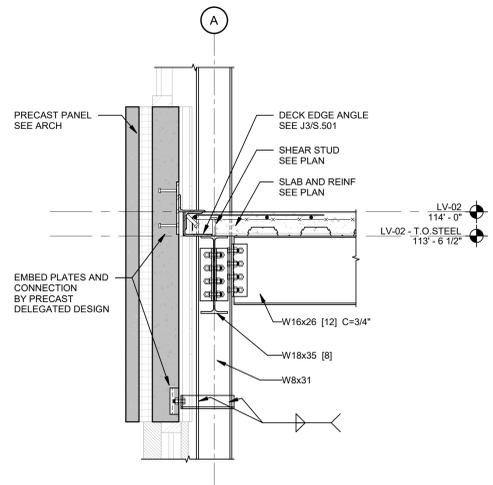
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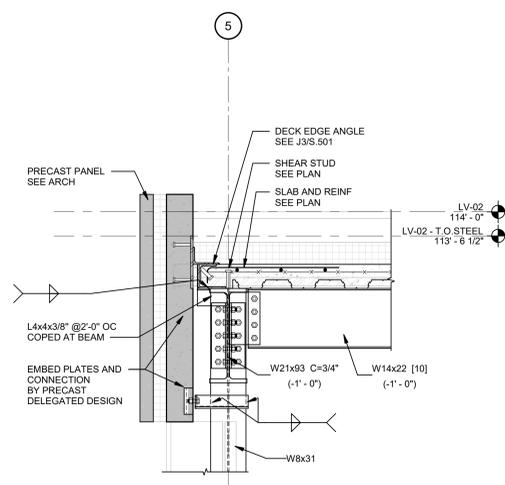
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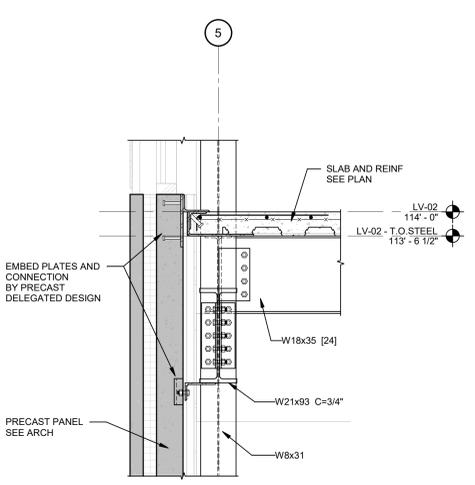
### S.700



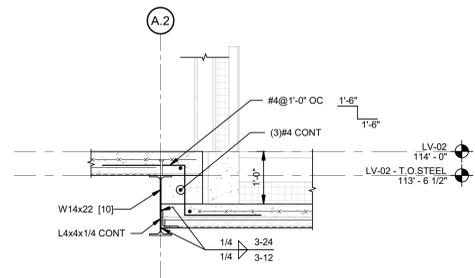
**A3 SECTION**  
S.101 SCALE: 3/4" = 1'-0"



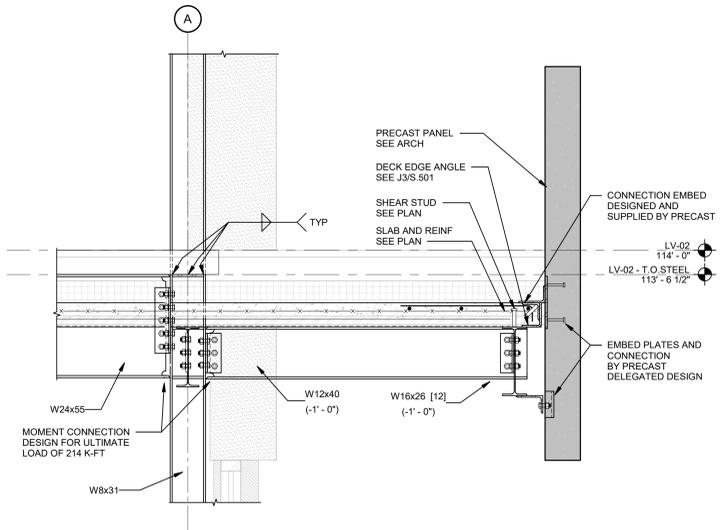
**C3 SECTION**  
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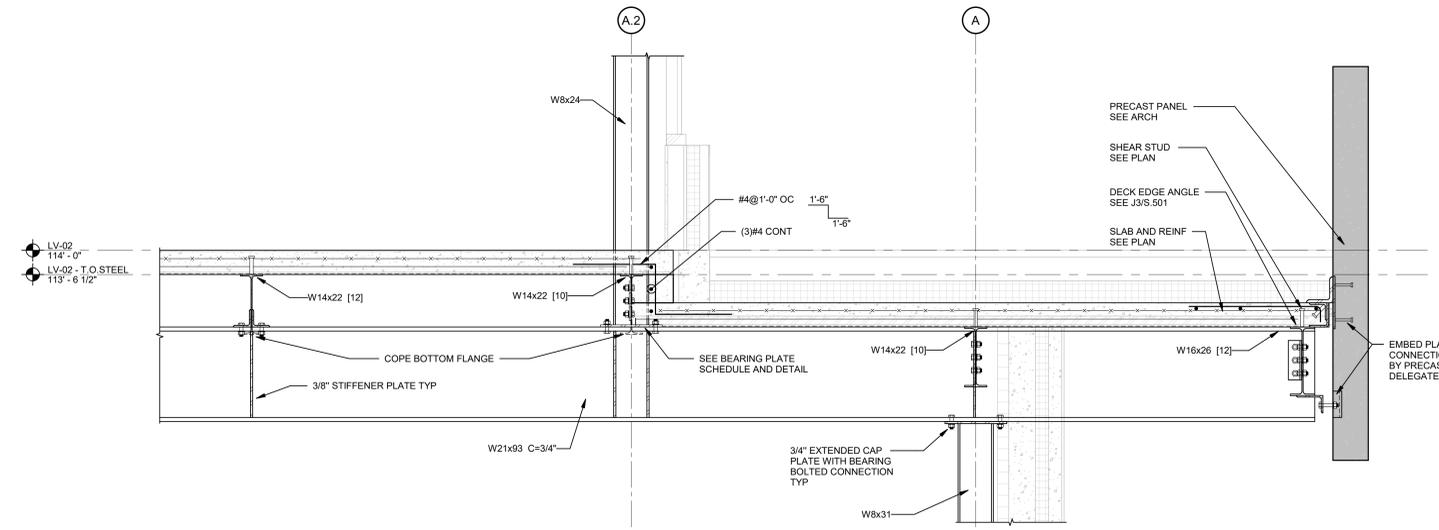
**E3 SECTION**  
S.101 SCALE: 3/4" = 1'-0"



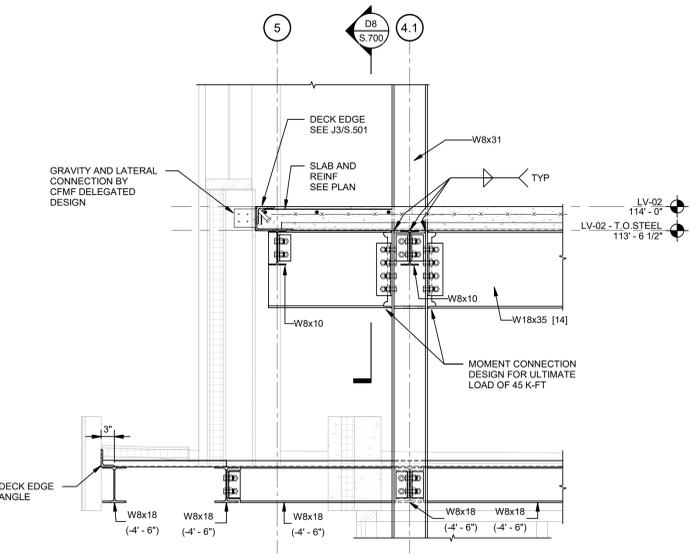
**G3 SECTION**  
S.101 SCALE: 3/4" = 1'-0"



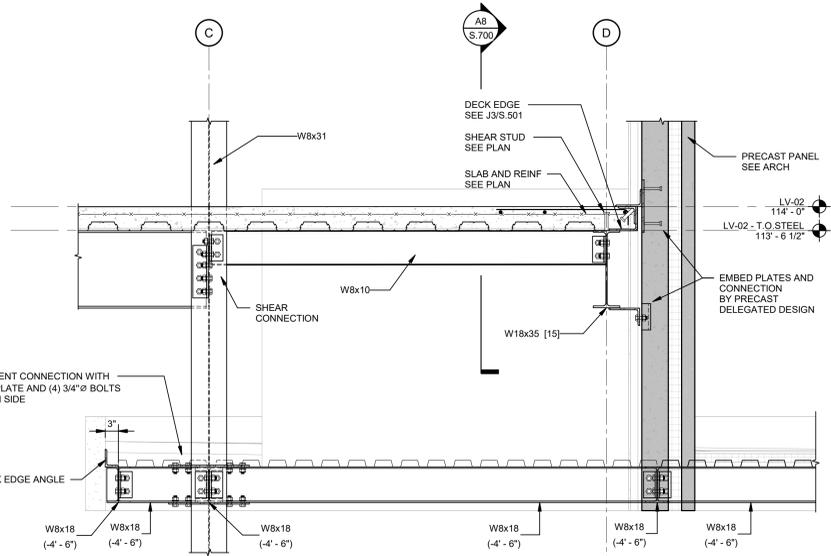
**A5 SECTION**  
S.101 SCALE: 3/4" = 1'-0"



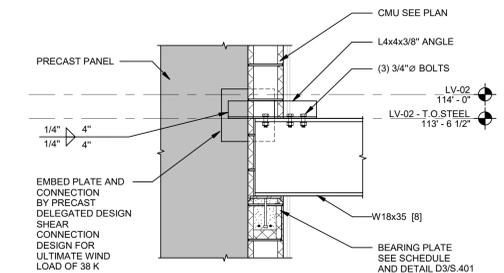
**D5 SECTION**  
S.101 SCALE: 3/4" = 1'-0"



**A8 SECTION**  
S.101 SCALE: 3/4" = 1'-0"



**D8 SECTION**  
S.101 SCALE: 3/4" = 1'-0"



**H8 SECTION**  
S.101 SCALE: 3/4" = 1'-0"

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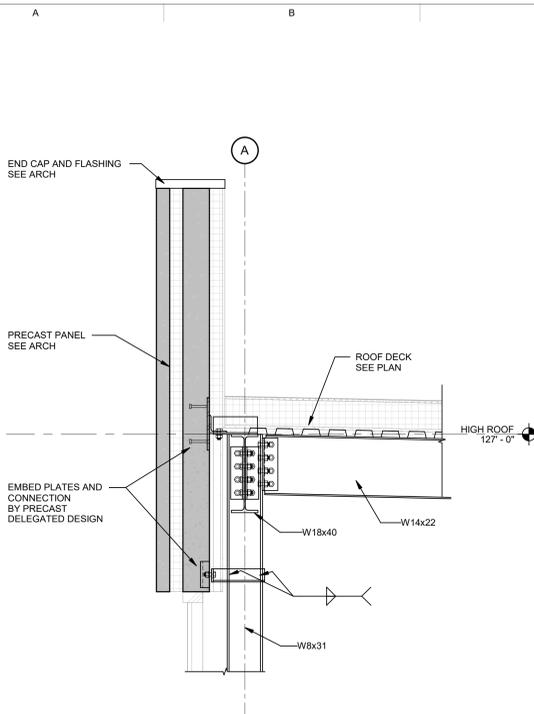
KEY PLAN

SHEET TITLE  
**SECTIONS AND DETAILS**

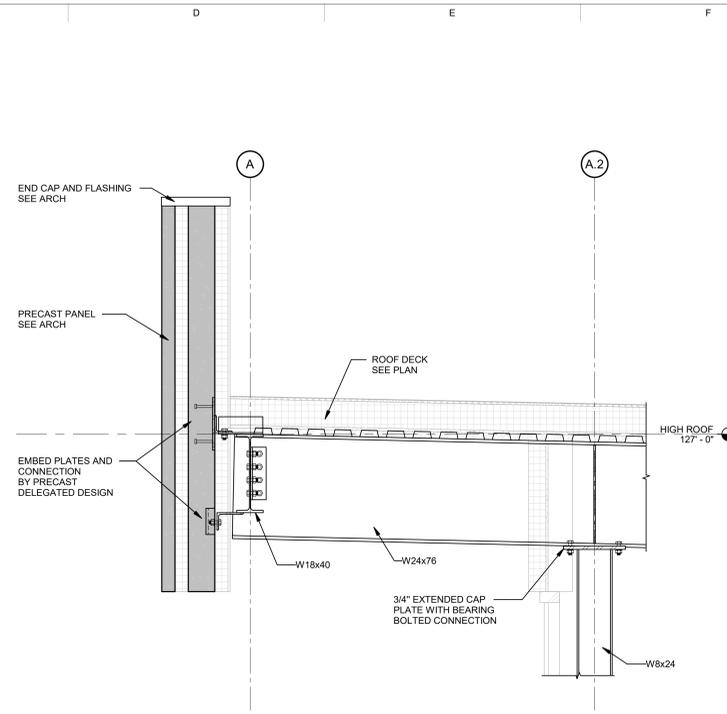
PROJECT #  
**24094**

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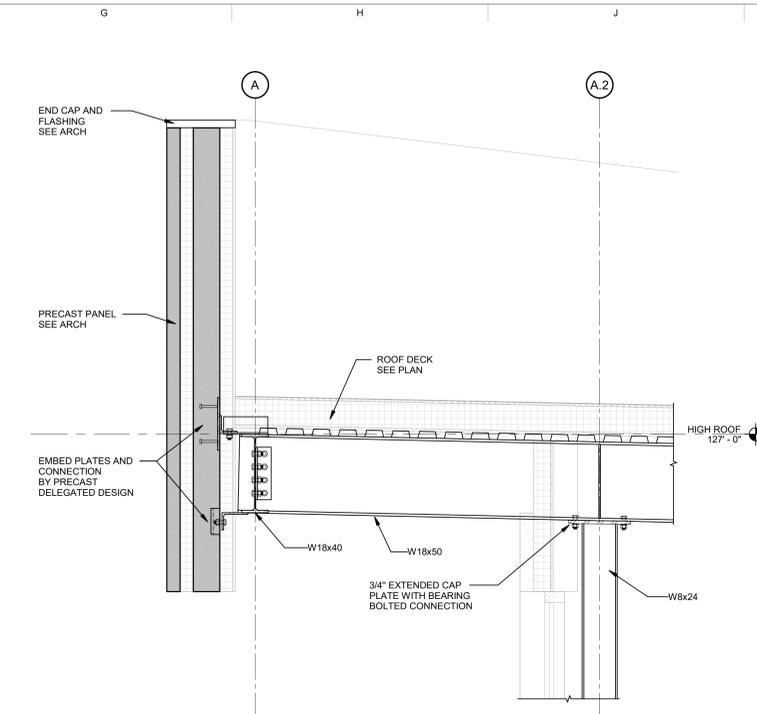
**S.701**



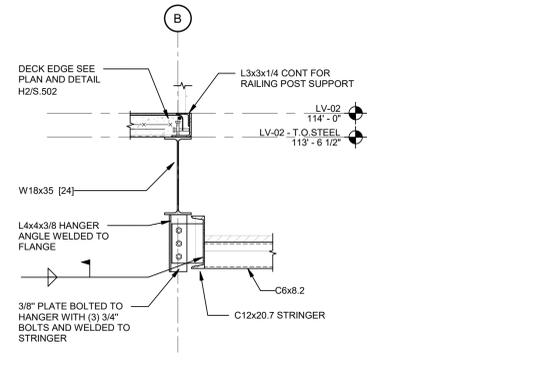
**A4** SECTION  
 S.101 SCALE: 3/4" = 1'-0"



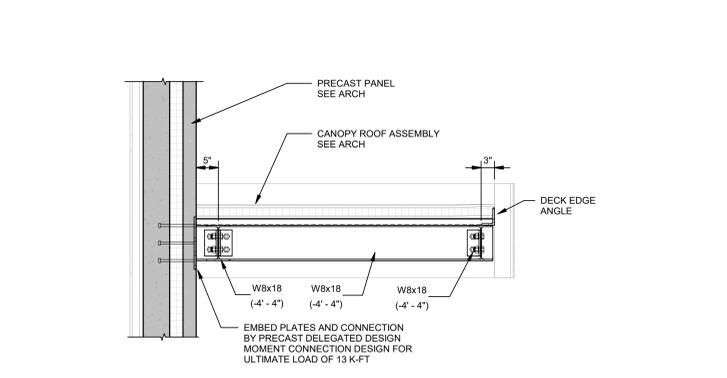
**D4** SECTION  
 S.101 SCALE: 3/4" = 1'-0"



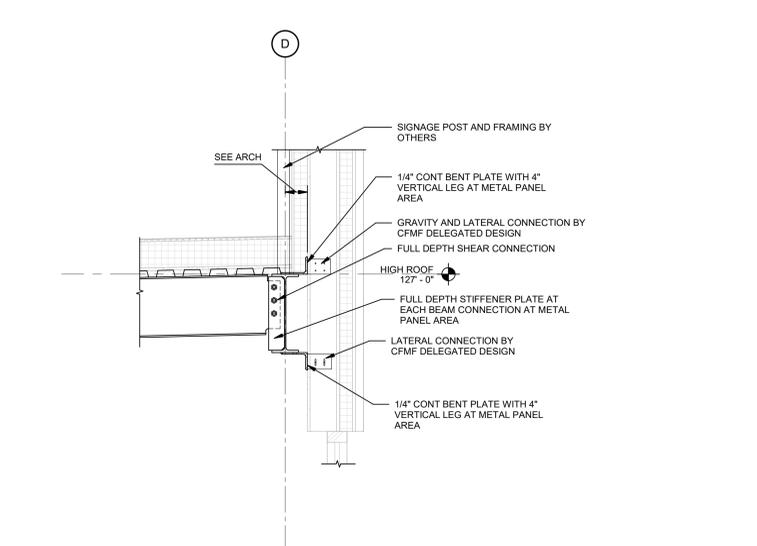
**G4** SECTION  
 S.101 SCALE: 3/4" = 1'-0"



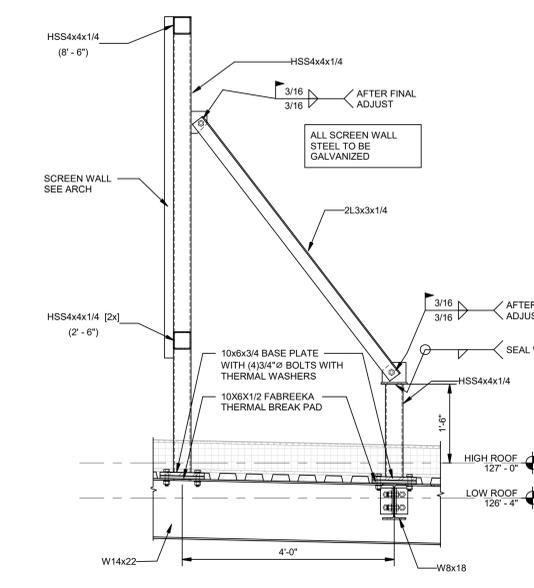
**A6** STAIR HANGER DETAIL  
 S.101 SCALE: 3/4" = 1'-0"



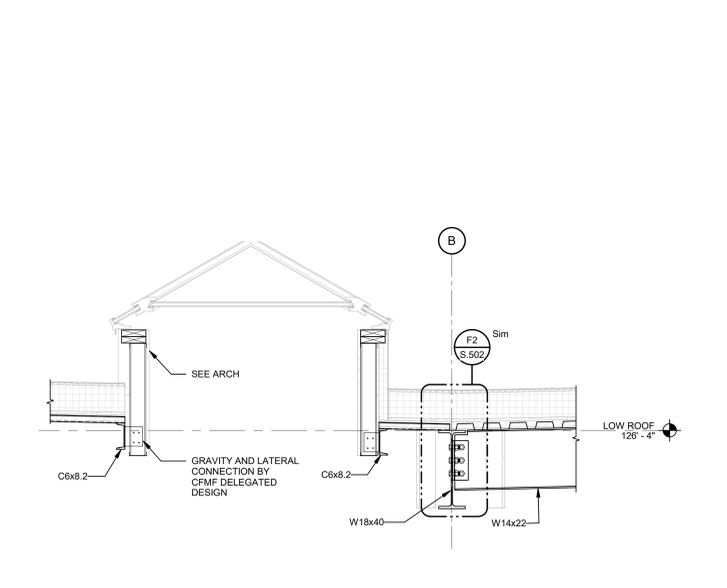
**D6** CANOPY SECTION  
 S.101 SCALE: 3/4" = 1'-0"



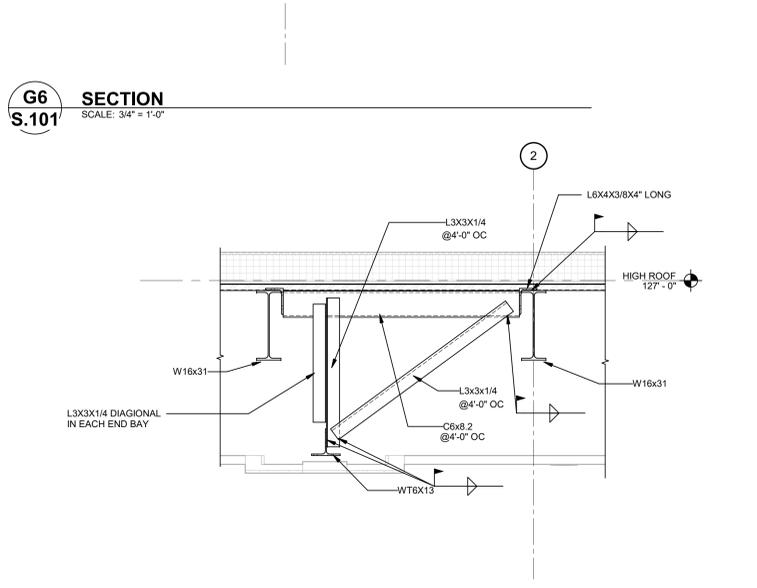
**G6** SECTION  
 S.101 SCALE: 3/4" = 1'-0"



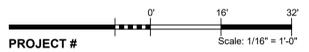
**A8** SCREEN WALL SECTION  
 S.101 SCALE: 3/4" = 1'-0"



**D8** SKYLIGHT SECTION  
 S.101 SCALE: 3/4" = 1'-0"



**G8** OPERABLE PARTITION HANGER DETAIL  
 S.101 SCALE: 3/4" = 1'-0"



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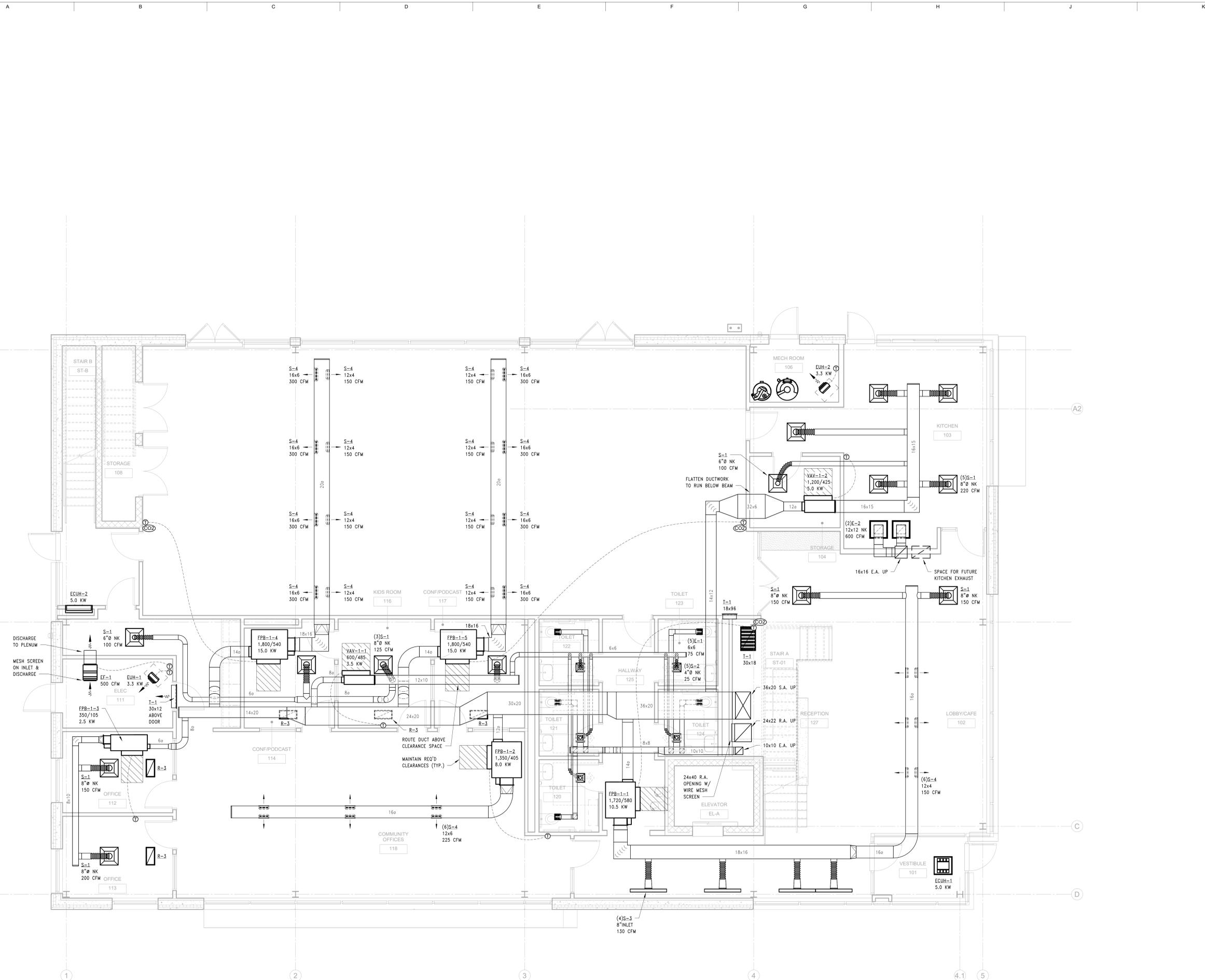
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1	Bid Set	01/24/2025

KEY PLAN

SHEET TITLE  
HVAC Floor Plan - Level 1

PROJECT #  
2024-010.00

SHEET #  
**M-111**



**1** HVAC FLOOR PLAN - LEVEL 1  
M-111 SCALE: 1/4" = 1'-0"



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

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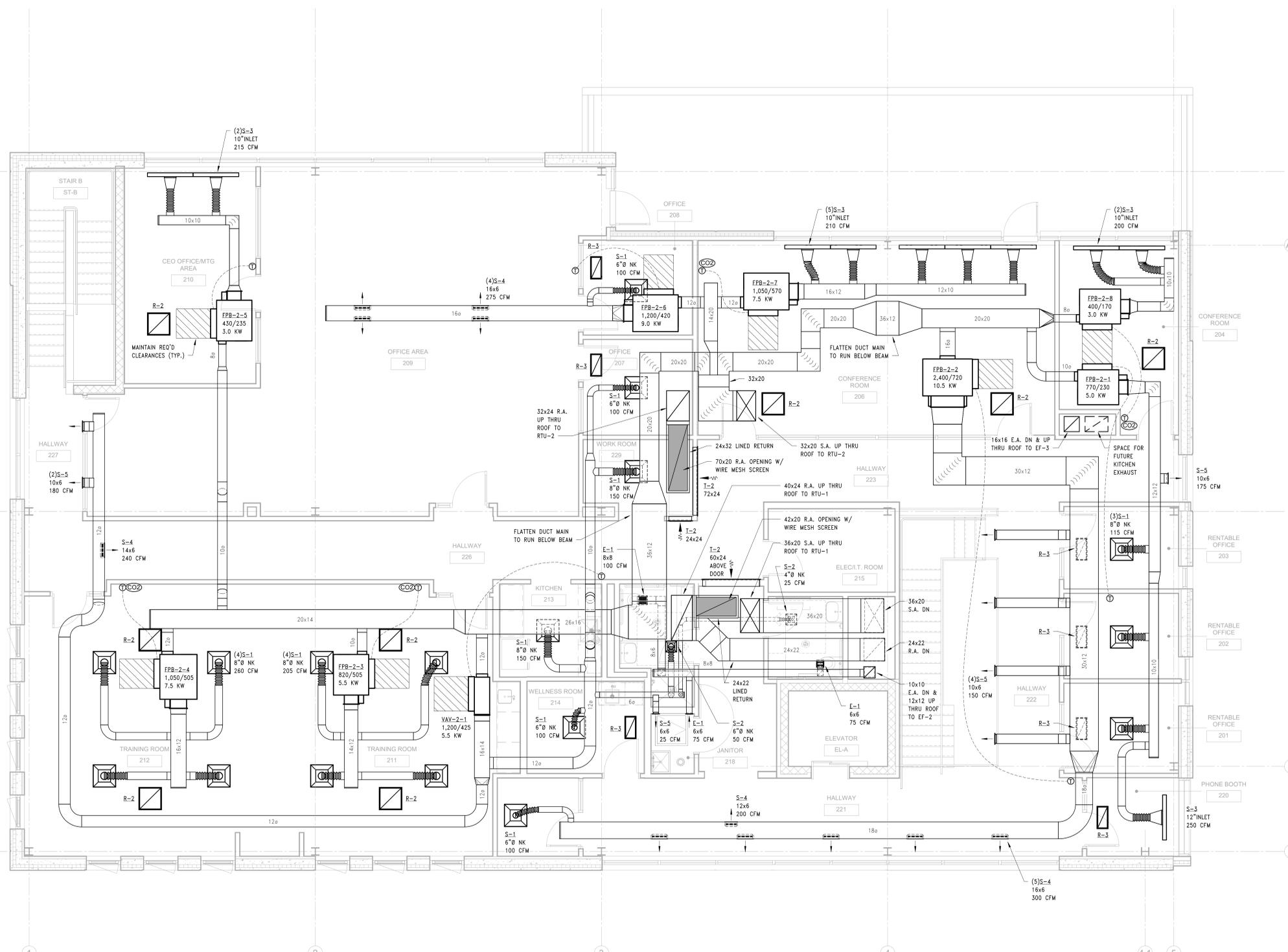
#	DESCRIPTION	DATE
1	Bid Set	01/24/2025

KEY PLAN

SHEET TITLE  
 HVAC Floor Plan - Level 2

PROJECT #  
 2024-010.00

SHEET #  
**M-121**



**1** HVAC FLOOR PLAN - LEVEL 2  
 M-121 SCALE: 1/4" = 1'-0"



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### ABBREVIATIONS

ACCU	AIR CONDITIONING CONDENSING UNIT	F	FAHRENHEIT	P	PUMP
AD	ACCESS DOOR	FD	FLOOR DRAIN	PD	PRESSURE DROP (FEET OF WATER)
AF	ABOVE FINISHED FLOOR	FLR	FLOOR	PSI	POUNDS PER SQUARE INCH
AHU	AIR HANDLING UNIT	FFM	FEET PER MINUTE	PRV	PRESSURE REDUCING VALVE
AP	ACCESS PANEL	FPWH	FREEZE PROOF WALL HYDRANT	RA	RETURN AIR
ASR	AUTOMATIC SPRINKLER RISER	FSW	FLOOR SWITCH	RDSP	ROOF DRAIN/STAND PIPE
		FS	FLOOR SINK	BAL	BALANCE
		FT	FEET	RET	RETURN
BTU	BRITISH THERMAL UNIT			RF	RETURN FAN
		GPM	GALLONS PER MINUTE	RH	REHEAT COIL
				RH	REHEAT COIL
CC	COOLING COIL	HB	HOSE BIBB	RP	RELATIVE HUMIDITY
CF	CENTRIFUGAL FAN	HO	HUB OUTLET	RPM	REVOLUTIONS PER MINUTE
CFM	CUBIC FEET PER MINUTE	HP	HOBSP/DWYER	RS	ROOF SUMP
CI	CAST IRON	HW	HOT WATER (POTABLE)	RC	RAN CONDUCTOR
CO	CLEAN OUT	HWR	HOT WATER RETURN (POTABLE)	REL	RELOCATED
COND	CONDENSATE			REB	REBALANCE
CONT	CONTINUATOR	IN	INCHES	SA	SUPPLY AIR
CUH	CABINET UNIT HEATER	INL	INLET	SAW	SANITARY WASTE
CW	COLD WATER	INV	INVERT	SD	SMOKE DETECTOR
CWS	CHILLED WATER SUPPLY			SF	SUPPLY FAN
CWR	CHILLED WATER RETURN	LAT	LEAVING AIR TEMPERATURE	SG	SPECIFIC GRAVITY
		LAV	LAVATORY	SP	STATIC PRESSURE (INCHES OF WATER)
D <sub>b</sub>	DRY BULB TEMPERATURE, °F	LSHR	POUNDS PER HOUR	SP	STAND PIPE
dB	DECIBELS	LWT	LEAVING WATER TEMPERATURE	SPR	SPRINKLER
DCC	DIRECT DIGITAL CONTROL	MAX	MAXIMUM	SPRSTP	SPRINKLER STANDPIPE
DET	DETAIL	MCH	MECHANICAL	SPS	STATIC PRESSURE SENSOR
DA	DIAMETER	MNL	MINIMUM	STX	STACK
DN	DOWN	MISC	MISCELLANEOUS		
DS	DOWNSPOUT	NC	NORMALLY CLOSED		
DWG	DRAWING	NIC	NOT IN CONTRACT		
EA	EXHAUST AIR	NO	NORMALLY OPEN		
EAH	ELECTRIC CABINET UNIT HEATER	NOM	NOMINAL		
EF	EXHAUST FAN	NFWM	NON FREEZE WALL HYDRANT		
ELEV	ELEVATION				
ESP	EXTERNAL STATIC PRESSURE	OA	OUTSIDE AIR		
EUH	ELECTRIC UNIT HEATER	OF	OVERFLOW		
EX	EXISTING	OFD	OVERFLOW DRAIN		
EXH	EXHAUST				
EXST	EXISTING				

### GENERAL HVAC NOTES:

- THE FOLLOWING NOTES APPLY TO ALL HVAC DRAWINGS, EXCEPT WHERE OTHERWISE INDICATED.
- WHEREVER VOLUME DAMPERS OCCUR ABOVE CEILING WITHOUT REMOVABLE TILE AND AN ACCESS PANEL IS NOT FURNISHED, PROVIDE AN EXPOSED DAMPER REGULATOR TO ALLOW DAMPER ADJUSTMENT FROM BELOW CEILING UNIT TO BE EQUAL TO VENT/LOCK NO. 666 IN 12"x36" SIZE.
  - ALL DIMENSION SHOWN FOR DUCTWORK ARE NET INSIDE DIMENSIONS.
  - DIFFUSER AND REGISTER LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN.
  - THOUGH SOME OFFSETS & TRANSITIONS ARE SHOWN IN PIPING AND SHEET METAL TO HELP INDICATE THE PHYSICAL RELATIONSHIP BETWEEN THEM, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL PIPING AND SHEET METAL OFFSET & TRANSITIONS REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL WORK WITHIN ITSELF AND WITH THE WORK OF ALL TRADES TO PROVIDE COMPLETE AND OPERABLE SYSTEMS WITHOUT INTERFERENCES.
  - DUCT PRESSURE CONSTRUCTION CLASSIFICATION SHALL BE AS SPECIFIED.
  - ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE SAME NOMINAL SIZE AS INDICATED ON THE DRAWINGS.
  - ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASE OR SUSPENDED CEILING.
  - ACCESS PANELS AND DOORS ARE REQUIRED THROUGH BUILDING CONSTRUCTION ASSEMBLIES SUCH AS WALLS, CEILING, PARTITIONS AND FLOORS TO SERVICE AND MAINTAIN DAMPERS, CONTROL MOTORS, REGULATORS, VALVES, FLEXIBLE DUCT CONNECTIONS AND OTHER ITEMS OR DEVICES INCORPORATED IN MECHANICAL WORK. SUCH PANELS AND DOORS SHALL BE PROVIDED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS DOORS AND PANELS AND REPORT THE EXACT QUANTITY, SIZE, FREQUENT AND LOCATION AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILING AND BUILDING ASSEMBLIES. MINIMUM ACCESS PANEL AND DOOR SIZE SHALL BE 24 INCHES BY 18 INCHES UNLESS OTHERWISE NOTED.
  - ALL DUCTWORK PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH FIRE DAMPERS AND ACCESS DOOR.

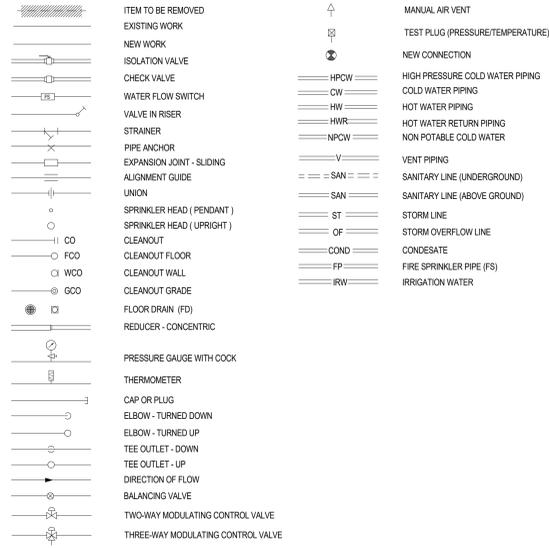
### PLUMBING GENERAL NOTES:

- FOR PIPE SIZES TO INDIVIDUAL PLUMBING FIXTURES AND VARIOUS PIECES OF EQUIPMENT REFER TO SPECIFICATIONS.
- IN ALL WASTE DRAINAGE PIPING THE CONTRACTOR SHALL FURNISH AND INSTALL CLEANOUTS IN ADDITION TO THE CLEANOUTS INDICATED ON DRAWINGS AS REQUIRED BY THE GOVERNING PLUMBING CODES.
- REFER TO HVAC GENERAL NOTE-4
- FOR ADDITION NOTES COMMON TO PLUMBING REFER TO HVAC NOTES.

EQUIPMENT	TOTAL INPUT CFH
RTU-1	600
RTU-2	600
GWH-1	76
GWH-2	199
TOTAL	1,475 CFH

PIPE DESIGN BASED ON 7" W.C. SERVICE PRESSURE @ 600 EQUIVALENT LINEAR FT. AND 0.2" W.C. ALLOWABLE PRESSURE DROP.

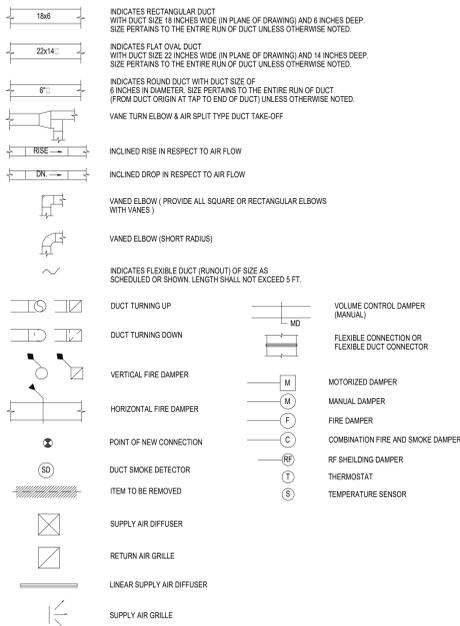
### PLUMBING, PIPING & FIRE PROTECTION



### MECHANICAL SHEET INDEX

Sheet Number	Sheet Name
FP-111	Fire Protection Plan - Level 1
FP-121	Fire Protection Plan - Level 2
MP-001	Mechanical Symbols List, Index and Notes
MP-002	Mechanical Specifications
P-101	Underground Plumbing Plan
P-111	Plumbing Floor Plan - Level 1
P-121	Plumbing Floor Plan - Level 2
M-111	HVAC Floor Plan - Level 1
M-121	HVAC Floor Plan - Level 2
MP-131	Mechanical Roof Plan
MP-401	Mechanical Schedules
MP-501	Mechanical Details
MP-502	Mechanical Details
MP-601	Temperature Controls

### HVAC LEGEND & SYMBOLS



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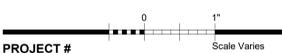
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### KEY PLAN

### SHEET TITLE

**Mechanical Symbols List, Index  
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### SHEET #

**MP-001**

30x42



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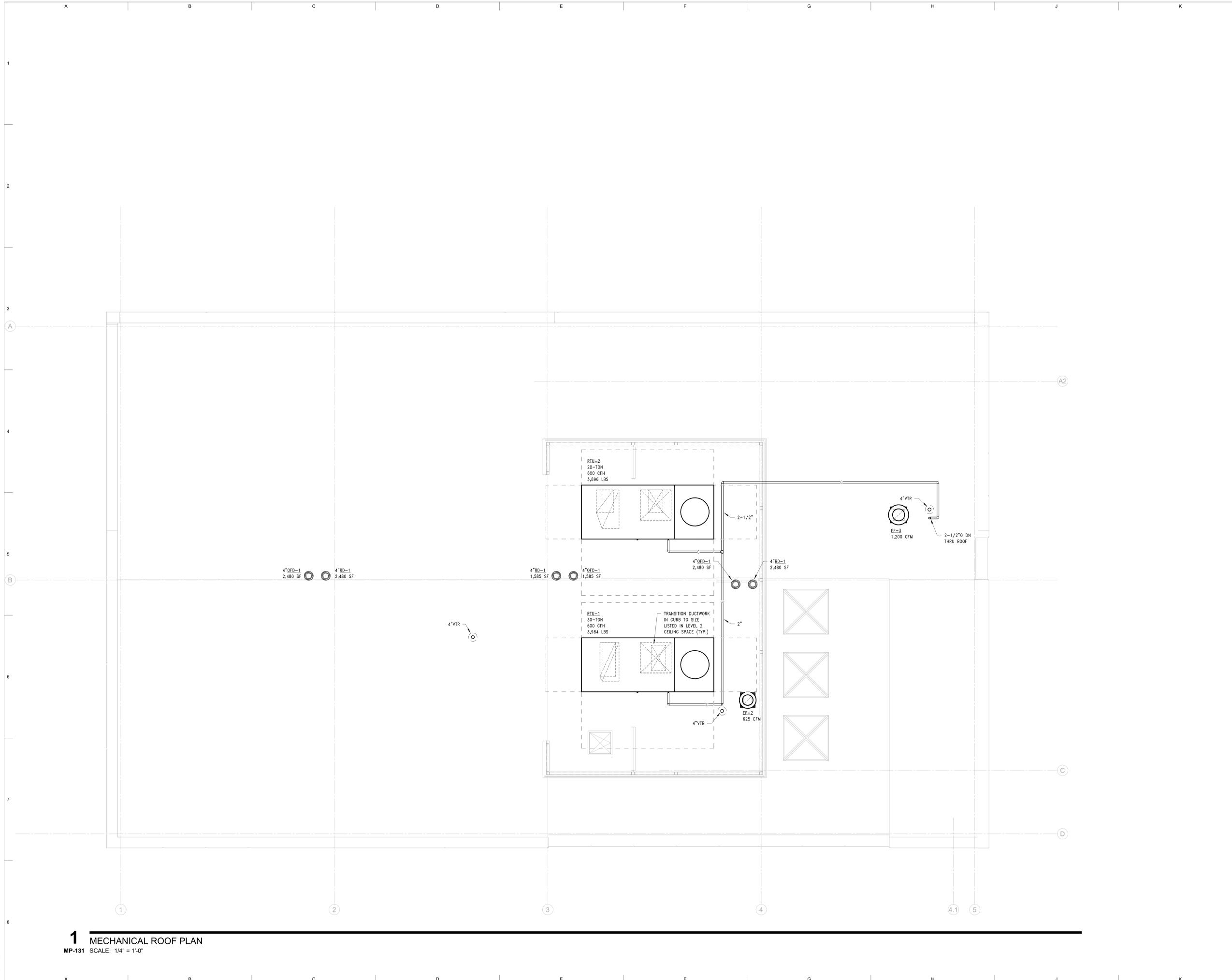
SHEET TITLE  
Mechanical Roof Plan

PROJECT #  
2024-010.00

SHEET #  
MP-131

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

30x42



**1** MECHANICAL ROOF PLAN  
MP-131 SCALE: 1/4" = 1'-0"

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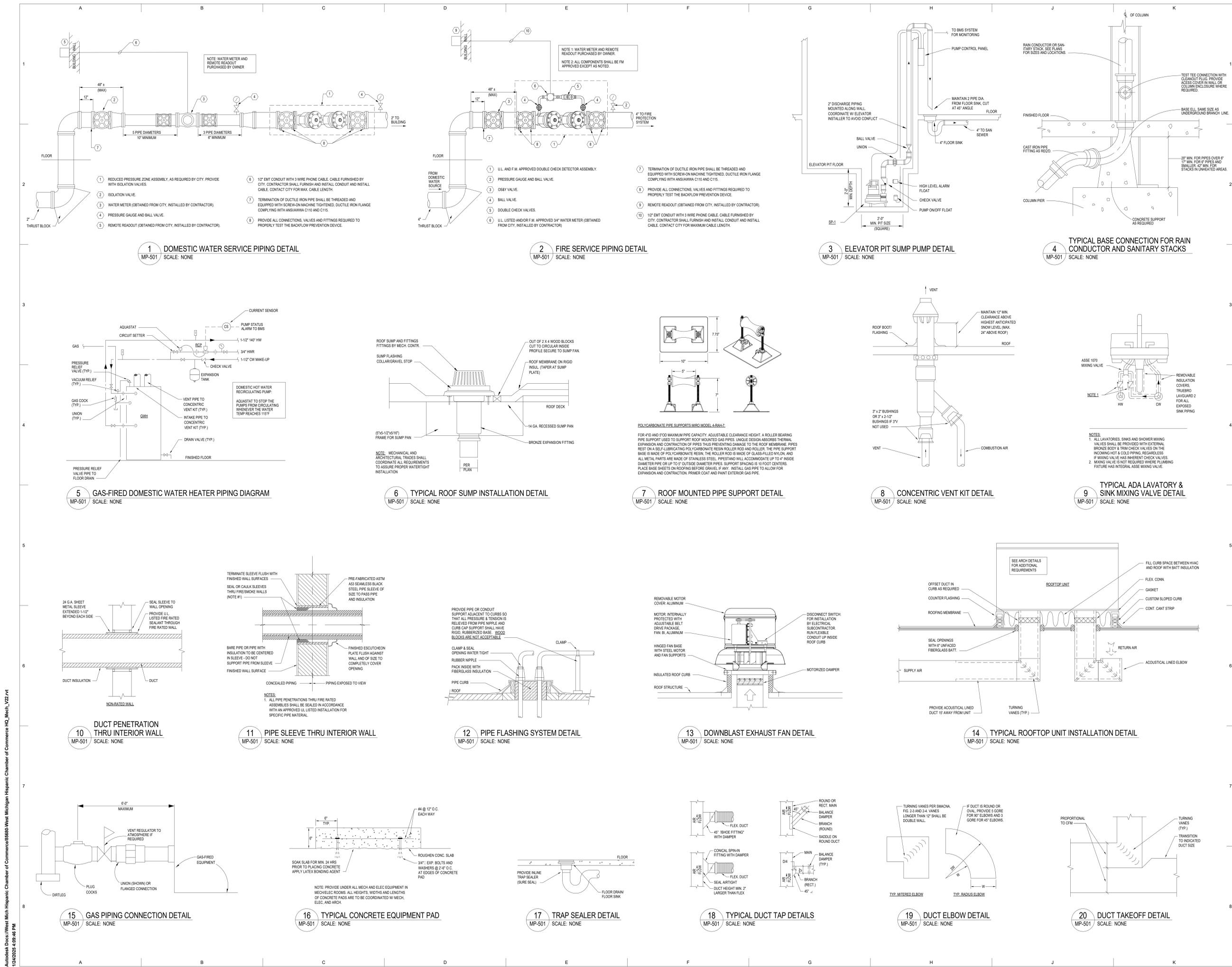
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**SHEET TITLE**  
**Mechanical Details**

**PROJECT #**  
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**SHEET #**  
**MP-501**



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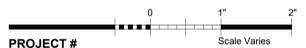
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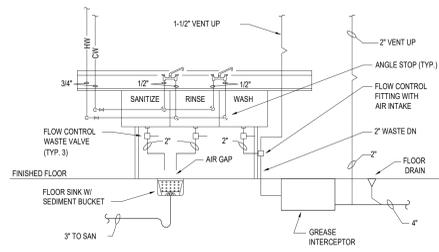
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Mechanical Details

**PROJECT #**  
2024-010.00

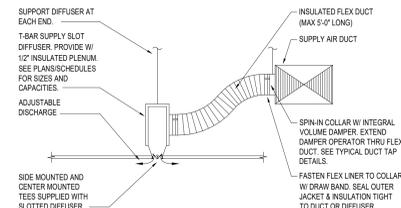
**SHEET #**  
**MP-502**



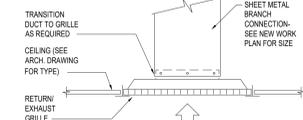
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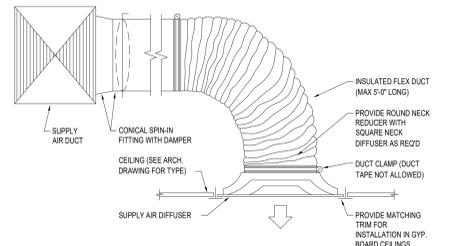
**1** 3-COMPARTMENT SINK DETAIL  
MP-502 SCALE: NONE



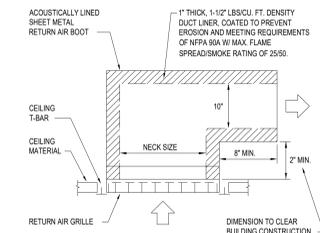
**2** LINEAR SLOT DIFFUSER WITH FLEX DUCT DETAIL  
MP-502 SCALE: NONE



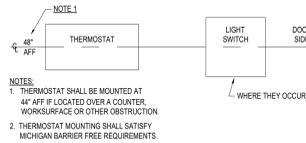
**3** RETURN / EXHAUST AIR GRILLE DETAIL  
MP-502 SCALE: NONE



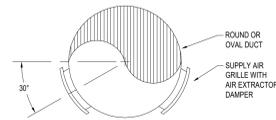
**4** SUPPLY AIR DIFFUSER WITH FLEX DUCT DETAIL  
MP-502 SCALE: NONE



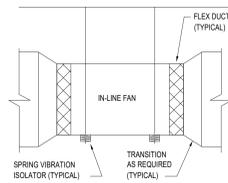
**5** RETURN AIR GRILLE WITH ACOUSTICAL BOOT DETAIL  
MP-502 SCALE: NONE



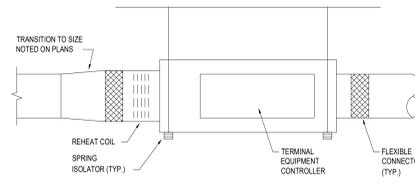
**6** THERMOSTAT MOUNTING DETAIL  
MP-502 SCALE: NONE



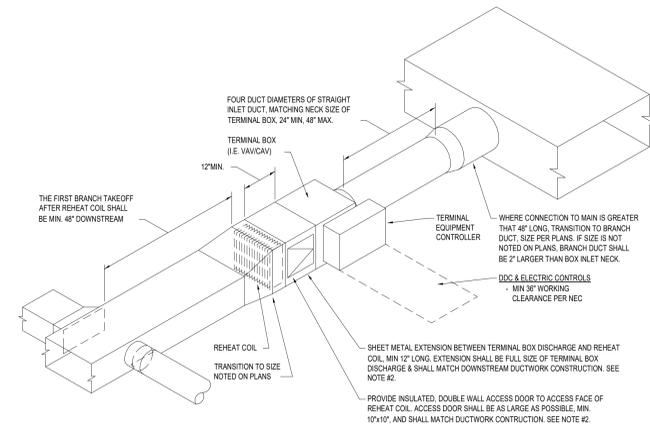
**7** DUCT-MOUNTED SUPPLY GRILLE DETAIL  
MP-502 SCALE: NONE



**8** IN-LINE FAN INSTALLATION DETAIL  
MP-502 SCALE: NONE



**9** TYPICAL FAN POWERED BOX INSTALLATION DETAIL  
MP-502 SCALE: NONE



- NOTES:**
1. FLEX DUCT IS NOT ALLOWED UPSTREAM OR DOWNSTREAM OF TERMINAL BOXES, EXCEPT IN THE BRANCH CONNECTION DIRECTLY TO DIFFUSER/GRILLES.
  2. TERMINAL BOX CONSTRUCTION THAT INCORPORATES A FACTORY PROVIDED ACCESS DOOR IN THE SIDE OF THE BOX CASING ARE ALLOWED TO MOUNT THE REHEAT COIL DIRECTLY TO THE TERMINAL BOX DISCHARGE OPENING AND FOREGO THE SHEET METAL EXTENSION BETWEEN BOX & COIL.
  3. TERMINAL BOXES SHALL BE MOUNTED NO HIGHER THAN 2' ABOVE THE CEILING GRID & SHALL BE LOCATED SO AS TO ALLOW CLEAR VERTICAL LADDER ACCESS FOR MAINTENANCE.

**10** TYPICAL TERMINAL UNIT INSTALLATION DETAIL  
MP-502 SCALE: NONE

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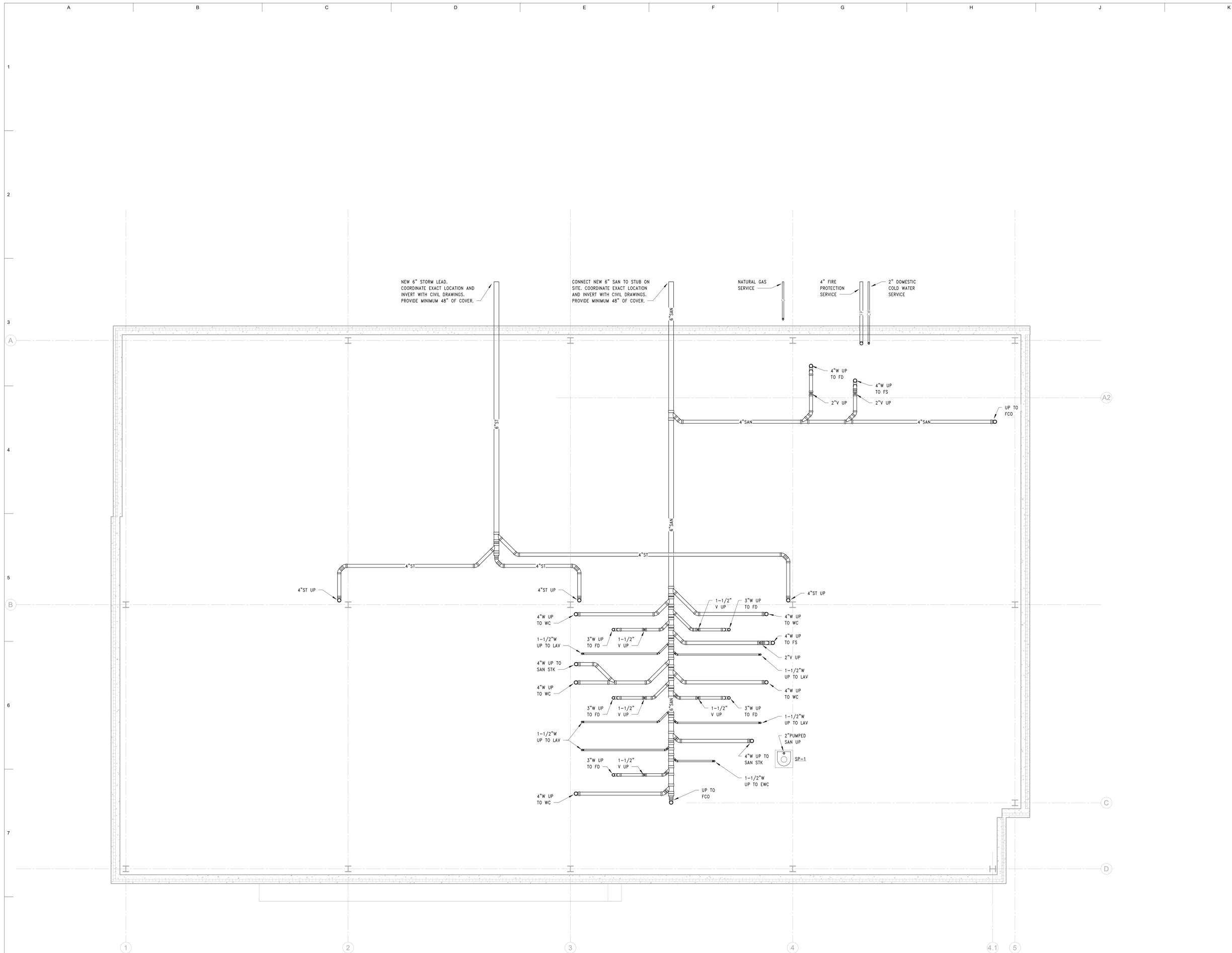
KEY PLAN

SHEET TITLE  
Underground Plumbing Plan

PROJECT #  
2024-010.00

SHEET #

**P-101**



**1** UNDERGROUND PLUMBING FLOOR PLAN  
P-101 SCALE: 1/4" = 1'-0"

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### KEY PLAN

SHEET TITLE  
Plumbing Floor Plan - Level 1

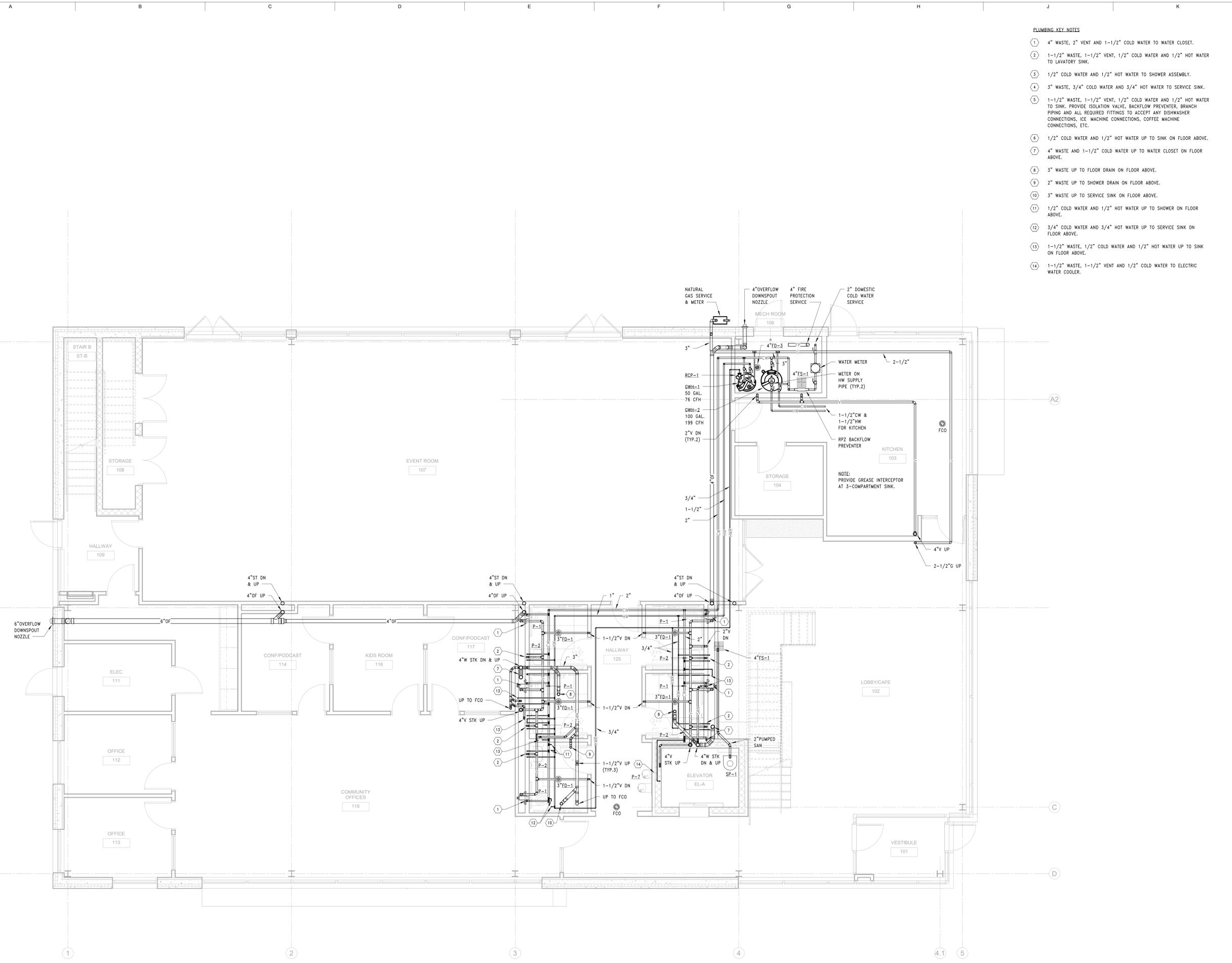
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2024-010.00

SHEET #

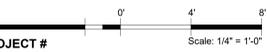
**P-111**

### PLUMBING KEY NOTES

- ① 4" WASTE, 2" VENT AND 1-1/2" COLD WATER TO WATER CLOSET.
- ② 1-1/2" WASTE, 1-1/2" VENT, 1/2" COLD WATER AND 1/2" HOT WATER TO LAVATORY SINK.
- ③ 1/2" COLD WATER AND 1/2" HOT WATER TO SHOWER ASSEMBLY.
- ④ 3" WASTE, 3/4" COLD WATER AND 3/4" HOT WATER TO SERVICE SINK.
- ⑤ 1-1/2" WASTE, 1-1/2" VENT, 1/2" COLD WATER AND 1/2" HOT WATER TO SINK. PROVIDE ISOLATION VALVE, BACKFLOW PREVENTER, BRANCH PIPING AND ALL REQUIRED FITTINGS TO ACCEPT ANY DISHWASHER CONNECTIONS, ICE MACHINE CONNECTIONS, COFFEE MACHINE CONNECTIONS, ETC.
- ⑥ 1/2" COLD WATER AND 1/2" HOT WATER UP TO SINK ON FLOOR ABOVE.
- ⑦ 4" WASTE AND 1-1/2" COLD WATER UP TO WATER CLOSET ON FLOOR ABOVE.
- ⑧ 3" WASTE UP TO FLOOR DRAIN ON FLOOR ABOVE.
- ⑨ 2" WASTE UP TO SHOWER DRAIN ON FLOOR ABOVE.
- ⑩ 3" WASTE UP TO SERVICE SINK ON FLOOR ABOVE.
- ⑪ 1/2" COLD WATER AND 1/2" HOT WATER UP TO SHOWER ON FLOOR ABOVE.
- ⑫ 3/4" COLD WATER AND 3/4" HOT WATER UP TO SERVICE SINK ON FLOOR ABOVE.
- ⑬ 1-1/2" WASTE, 1-1/2" COLD WATER AND 1/2" HOT WATER UP TO SINK ON FLOOR ABOVE.
- ⑭ 1-1/2" WASTE, 1-1/2" VENT AND 1/2" COLD WATER TO ELECTRIC WATER COOLER.



**1** PLUMBING FLOOR PLAN - LEVEL 1  
P-111 SCALE: 1/4" = 1'-0"



Autodesk Docs://West Mich Hispanic Chamber of Commerce/65680-West Michigan Hispanic Chamber of Commerce\_HQ\_Mech\_V22.rvt  
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## PROJECT West Michigan Hispanic Chamber of Commerce- HQ

1111 Godfrey  
Grand Rapids, MI 49507

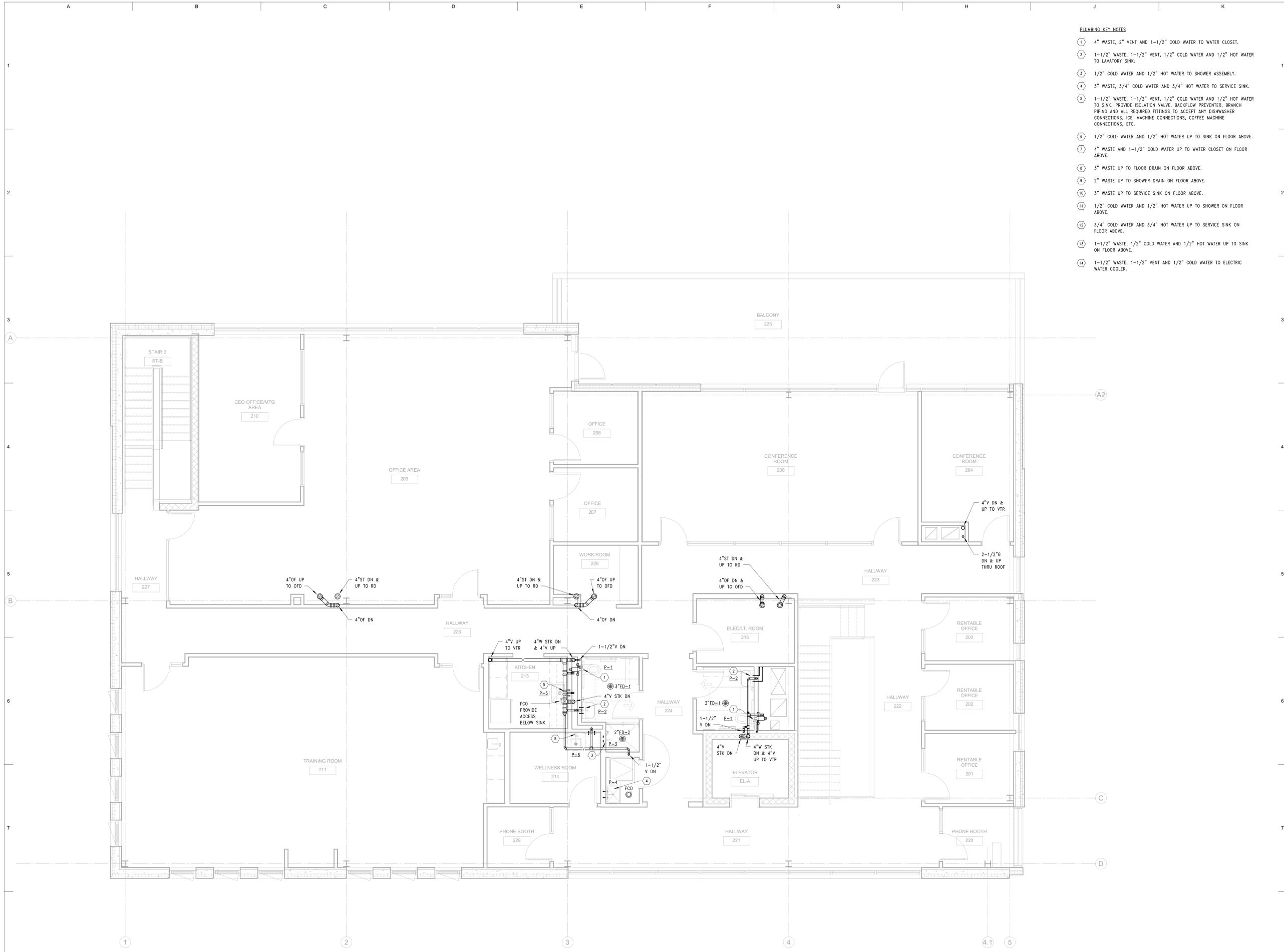
CONSULTANT



PROFESSIONAL SEAL

### PLUMBING KEY NOTES

- ① 4" WASTE, 2" VENT AND 1-1/2" COLD WATER TO WATER CLOSET.
- ② 1-1/2" WASTE, 1-1/2" VENT, 1/2" COLD WATER AND 1/2" HOT WATER TO LAVATORY SINK.
- ③ 1/2" COLD WATER AND 1/2" HOT WATER TO SHOWER ASSEMBLY.
- ④ 3" WASTE, 3/4" COLD WATER AND 3/4" HOT WATER TO SERVICE SINK.
- ⑤ 1-1/2" WASTE, 1-1/2" VENT, 1/2" COLD WATER AND 1/2" HOT WATER TO SINK. PROVIDE ISOLATION VALVE, BACKFLOW PREVENTER, BRANCH PIPING AND ALL REQUIRED FITTINGS TO ACCEPT ANY DISHWASHER CONNECTIONS, ICE MACHINE CONNECTIONS, COFFEE MACHINE CONNECTIONS, ETC.
- ⑥ 1/2" COLD WATER AND 1/2" HOT WATER UP TO SINK ON FLOOR ABOVE.
- ⑦ 4" WASTE AND 1-1/2" COLD WATER UP TO WATER CLOSET ON FLOOR ABOVE.
- ⑧ 3" WASTE UP TO FLOOR DRAIN ON FLOOR ABOVE.
- ⑨ 2" WASTE UP TO SHOWER DRAIN ON FLOOR ABOVE.
- ⑩ 3" WASTE UP TO SERVICE SINK ON FLOOR ABOVE.
- ⑪ 1/2" COLD WATER AND 1/2" HOT WATER UP TO SHOWER ON FLOOR ABOVE.
- ⑫ 3/4" COLD WATER AND 3/4" HOT WATER UP TO SERVICE SINK ON FLOOR ABOVE.
- ⑬ 1-1/2" WASTE, 1/2" COLD WATER AND 1/2" HOT WATER UP TO SINK ON FLOOR ABOVE.
- ⑭ 1-1/2" WASTE, 1-1/2" VENT AND 1/2" COLD WATER TO ELECTRIC WATER COOLER.



**1** PLUMBING FLOOR PLAN - LEVEL 2  
P-121 SCALE: 1/4" = 1'-0"

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#	DESCRIPTION	DATE
1	Bid Set	01/24/2025

KEY PLAN

SHEET TITLE  
Plumbing Floor Plan - Level 2

PROJECT #  
2024-010.00

SHEET #

**P-121**

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

30x42

Autodesk Docs://West Mich Hispanic Chamber of Commerce/65680-West Michigan Hispanic Chamber of Commerce\_HQ\_Mech\_V2.rvt  
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160 WEST FORT, SUITE 400  
DETROIT, MICHIGAN 48226  
ROSSETTI.COM 313.463.5151

## PROJECT

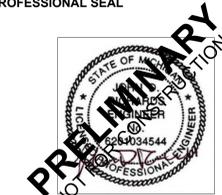
### West Michigan Hispanic Chamber of Commerce-HQ

1111 Godfrey  
Grand Rapids, MI 49507

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## PROFESSIONAL SEAL



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#	DESCRIPTION	DATE
1	Design Development	11/13/2024

## KEY PLAN

SHEET TITLE  
Electrical Riser Diagram

PROJECT #  
2024-010.00

SHEET #

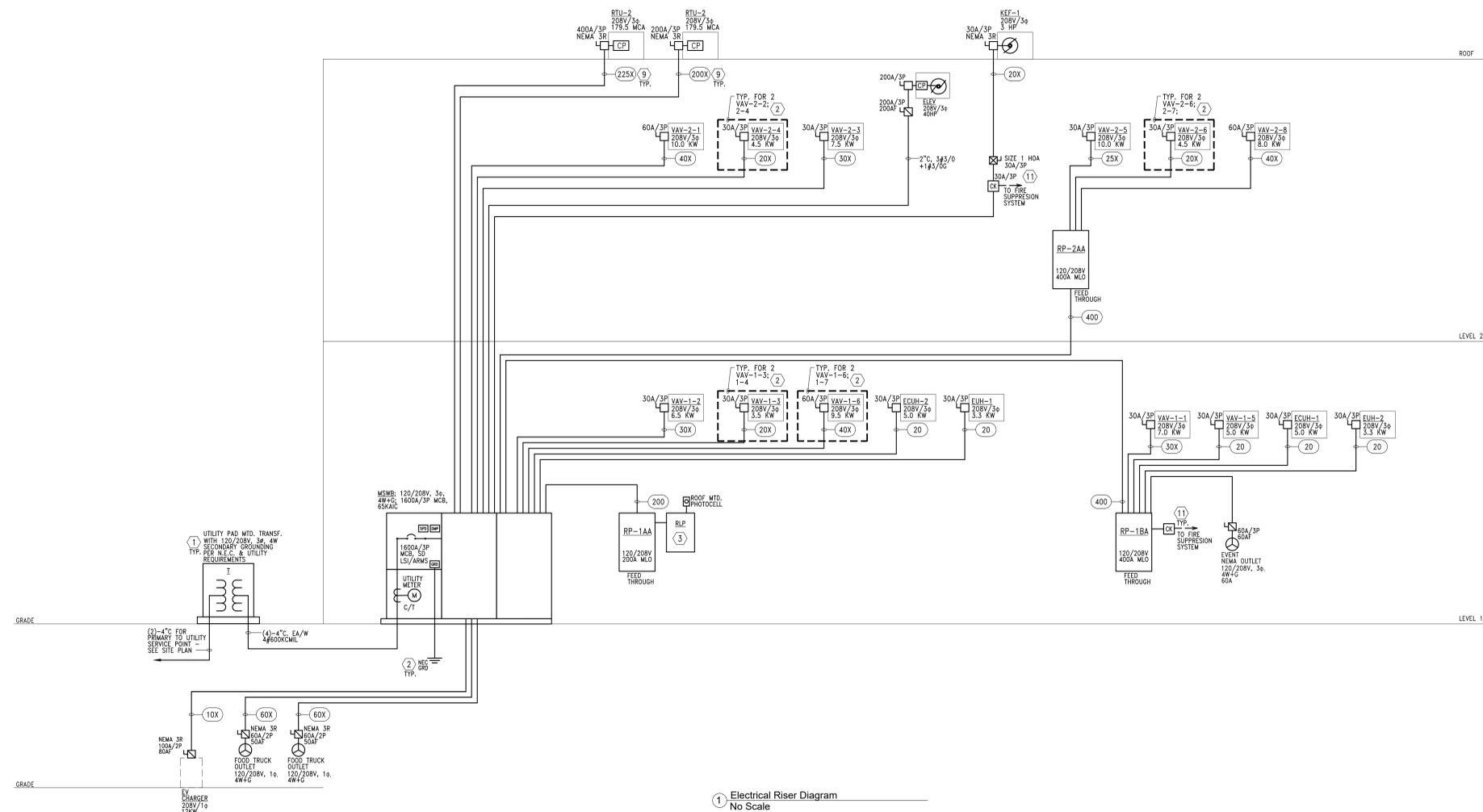
E-010

## GENERAL RISER NOTES:

- REFER TO SHEET E000 FOR ELECTRICAL LEGEND AND GENERAL NOTES, SHEET E.020 FOR WIRE SCHEDULES AND SHEET E04X SERIES FOR PANEL SCHEDULES.
- REFER TO VOLTAGE DROP SCHEDULE ON SHEET E001, MAXIMUM VOLTAGE DROP NOT TO EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS. ADJUST WIRE SIZES PER THE INSTALLATION LENGTHS TO MAINTAIN THE MAXIMUM VOLTAGE DROP LEVELS.
- NEW ELECTRICAL SERVICE REQUIREMENTS TO BE COORDINATED WITH DTE ENERGY.
- COORDINATE WITH MECHANICAL FOR DISCONNECTS, STARTERS, GFI RECEPTACLES PROVIDED WITH THE MECHANICAL EQUIPMENT, INSTALL AND WIRE, PROVIDE IF NOT INCLUDED WITH EQUIPMENT.
- ALL FLOOR AND GROUND MOUNTED EQUIPMENT (DISTRIBUTION PANELS, POWER PANELS, TRANSFORMERS, ETC.) TO BE PAD MOUNTED, PROVIDE CONCRETE PADS AS REQUIRED PER APPROVED EQUIPMENT SUBMITTAL AND VIBRATION ISOLATOR PADS, COORDINATE WITH ARCHITECT.
- RUN ALL UNDERGROUND CONDUITS MIN. 4" UNDER SLAB.
- ALL OUTDOOR AND ROOF MOUNTED EQUIPMENT TO BE NEMA 3R WEATHERPROOF RATED, INCLUDING STARTERS, DISCONNECTS, AND DEVICES AND ALL ASSOCIATED TO BE WET RESISTANT INCLUDING CONDUITS, BOXES, SUPPORTS, FITTINGS, ETC.
- FOR ALL ELECTRICAL EQUIPMENT AND EQUIPMENT DISCONNECTS MAINTAIN CODE REQUIRED DEDICATED EQUIPMENT SPACE AND WORKING CLEARANCES, COORDINATE WITH ALL TRADES PRIOR TO INSTALLATIONS.
- PROVIDE VFD'S AND COMPLETE INSTALLATION UNLESS INCLUDED WITH EQUIPMENT, COORDINATE WITH MECHANICAL FOR ALL EQUIPMENT REQUIRING VFD'S, NOT ALL ARE IDENTIFIED ON THESE DOCUMENTS.
- PROVIDE FAULT CURRENT CALCULATIONS, COORDINATION AND ARC FLASH STUDY. REFER TO SPECIFICATION SECTION 280274. PROVIDE PANELBOARDS FULLY RATED FOR THE AVAILABLE FAULT CURRENTS PER THE STUDY RESULTS. SUBMIT STUDY PRIOR OR WITH THE EQUIPMENT SUBMITTALS TO CONFIRM ADEQUATE RATINGS FOR ALL EQUIPMENT SUBMITTED.

## RISER KEY NOTES:

- COORDINATE WITH UTILITY COMPANY FOR NEW ELECTRICAL SERVICE EXACT REQUIREMENTS.
- BOND ALL NEW CONCRETE ENCASED ELECTRODES TO THE GROUNDING ELECTRODE SYSTEM. ONLY ONE IS SHOWN IN DETAIL. COORDINATE WITH CONCRETE INSTALLER TO PROVIDE ELECTRODES WHICH REMAIN ACCESSIBLE AFTER POOR FOR BONDING.  
BOND METAL WATER PIPING AND OTHER INTERIOR METAL PIPING THAT MAY BECOME ENERGIZED TO GROUNDING SYSTEM PER NEC. MAKE WATER PIPE CONNECTIONS AREA OF METERS AND WITHIN 5'-0" OF BUILDING ENTRANCE.  
BOND GROUND BUS WITH EVERY METAL CABINET, PANEL, ETC. TO THE ENCLOSURE.
- PROVIDE ANY UNUSED VERTICAL POSITIONS FULLY BRUSSED AS SPACE IN ALL EQUIPMENT: SWITCHBOARD/ DISTRIBUTION PANEL/PANELBOARDS.
- PROVIDE CONCRETE PAD FOR ALL FLOOR AND GRADE MOUNTED ELECTRICAL EQUIPMENT, REFER TO SPECIFICATIONS.
- COORDINATE WITH APPROVED ELEVATOR SUBMITTALS FOR EXACT REQUIREMENTS AND PROVIDE SERVICES AS REQUIRED.
- PROVIDE LIGHTING CONTROL RELAY PANELS TO CONTROL ALL EXTERIOR AND INTERIOR HOUSE LIGHTING, BUILDING MOUNTED LIGHTING, PARKING LOT LIGHTING AND BUILDING MONUMENT SIGNS TO COMPLY WITH THE FLORIDA ENERGY CODE. COORDINATE EXACT REQUIREMENTS WITH LANDSCAPE.
- PROVIDE BREAKERS, FEEDERS, DISCONNECTS ETC. FOR MULTIPLE EQUIPMENT, INDICATED ONLY ONE FOR TYPICAL INSTALLATION, TOTAL NUMBER AS NOTED, REFER TO PLANS AND PANEL SCHEDULES AND VERIFY EXACT QUANTITIES.
- VFD SUPPLIED WITH EQUIPMENT, PROVIDE COMPLETE INSTALLATION, COORDINATE WITH MECHANICAL FOR ALL REQUIREMENTS.
- FEEDER SIZES INDICATED TO BE ADJUSTED FOR OVERALL INSTALLED LENGTHS TO MAINTAIN MAXIMUM 3% VOLTAGE DROP FOR BRANCH CIRCUITS AND 2% FOR FEEDERS.
- EXACT REQUIREMENTS FOR KITCHEN EQUIPMENT TO BE VERIFIED. PROVIDE POWER FOR KITCHEN EQUIPMENT PER APPROVED LAYOUT, EQUIPMENT SUBMITTAL AND NAMEPLATE DATA.
- PROVIDE CONTACTORS AND/OR SHUNT TRIP BREAKERS AS REQUIRED FOR INTERLOCKING WITH THE FIRE SUPPRESSION OF ALL THE EQUIPMENT AND DEVICES UNDER THE HOOD, INCLUDING MAIN AND SEF FOR KITCHEN HOOD. COORDINATE ALL REQUIREMENTS WITH MECHANICAL AND FIRE SUPPRESSION SYSTEM PROVIDER. REFER TO DETAILS ON SHEET E.500.
- EXACT TYPE, QUANTITIES AND LOCATIONS OF EV CHARGING STATIONS TO BE VERIFIED WITH OWNER PRIOR TO ROUGH IN. INFORMATION INDICATED ARE BASED ON RESEARCH (1)-60A INPUT CURRENT AND (2)-50A BREAKERS FOR EACH STATION. SERVICES ARE SIZED FOR TOTAL 30 DUAL EV CHARGING STATIONS (30 CHARGERS) AT EACH WING: WEST, CENTER, EAST. OVERALL TOTAL, 90 EV CHARGING STATIONS (30 CHARGERS), (30) DUAL EV CHARGING STATIONS TO BE INSTALLED AND (40) ARE FUTURE.



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

30x42



# ROSSETTI

160 WEST FORT, SUITE 400  
DETROIT, MICHIGAN 48226  
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PROJECT

## West Michigan Hispanic Chamber of Commerce-HQ

1111 Godfrey  
Grand Rapids, MI 49507

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PROFESSIONAL SEAL

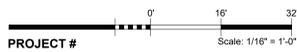


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#	DESCRIPTION	DATE
1	Design Development	11/13/2024

KEY PLAN

SHEET TITLE  
Electrical Panel Schedules



PROJECT #  
2024-010.00

SHEET #

**E-030**

MAIN DISTRIBUTION PANEL MDP 120/208V, 3PH, 4W+G, 1200A/3P MCCB LSI ARMS 65 KAC						
POSITION	SWITCH SWITCH	FUSE FUSE	EQUIPMENT	CONNECTED LOAD (KVA)	DEMAND LOAD (KVA)	FEEDER SIZE (COPPER) (SEE RISER FOR AL)
01	1200A/3P	1200 A	MAIN SD LSI ARMS			
1	400A/3P	225 A	RTU-1	178.5 A	64.8	51.7
2	400A/3P	400 A	RP-2AA		80.0	64.0
3	200A/3P	175 A	RTU-2	146.3 A	50.5	40.4
4	200A/3P	200 A	RP-1AA		50.0	40.0
5	400A/3P	400 A	RP-1BA		80.0	64.0
6	200A/3P	200 A	ELEVATOR		43.2	34.6
7	200A/3P		SPARE			
8	200A/3P		SPARE			
9	100A/3P		SPARE			
10	100A/3P		SPARE			
11	60A/3P	40 A	VAV-1-6		10.5	4.2
12	60A/3P	40 A	VAV-1-7		9.0	3.6
13	60A/3P	40 A	VAV-2-1		11.0	4.4
14	60A/3P	60 A	EVENT POWER		15.0	12.0
15	60A/3P		SPARE			
16	30A/3P	20 A	KEF-1		4.0	3.2
17	30A/3P	30 A	VAV-1-2		10.5	4.2
18	30A/3P	20 A	VAV-1-3		10.5	4.2
19	30A/3P	20 A	VAV-1-4		10.5	4.2
20	30A/3P	20 A	VAV-2-2		10.5	4.2
21	30A/3P	30 A	VAV-2-3		10.5	4.2
22	30A/3P	20 A	VAV-2-4		10.5	4.2
23	30A/3P	25 A	VAV-2-5		10.5	4.2
24	30A/3P	20 A	ECU-2		5.0	0.0
25	30A/3P	20 A	EUH-1		5.0	0.0
27			SPARE			
28	3P		SPACE			
29	3P		SPACE			
30	3P		SPACE			
TOTAL CALCULATED LOAD:				501 KVA 1302 A	351 KVA 978 A	



**PROJECT**

## West Michigan Hispanic Chamber of Commerce-HQ

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#	DESCRIPTION	DATE
1	Design Development	11/13/2024
2	Construction Documents - Progress Review	12/03/2024

**KEY PLAN**

**SHEET TITLE**  
Floor Plan - Level 1 - Lighting

**PROJECT #**  
2024-010.00

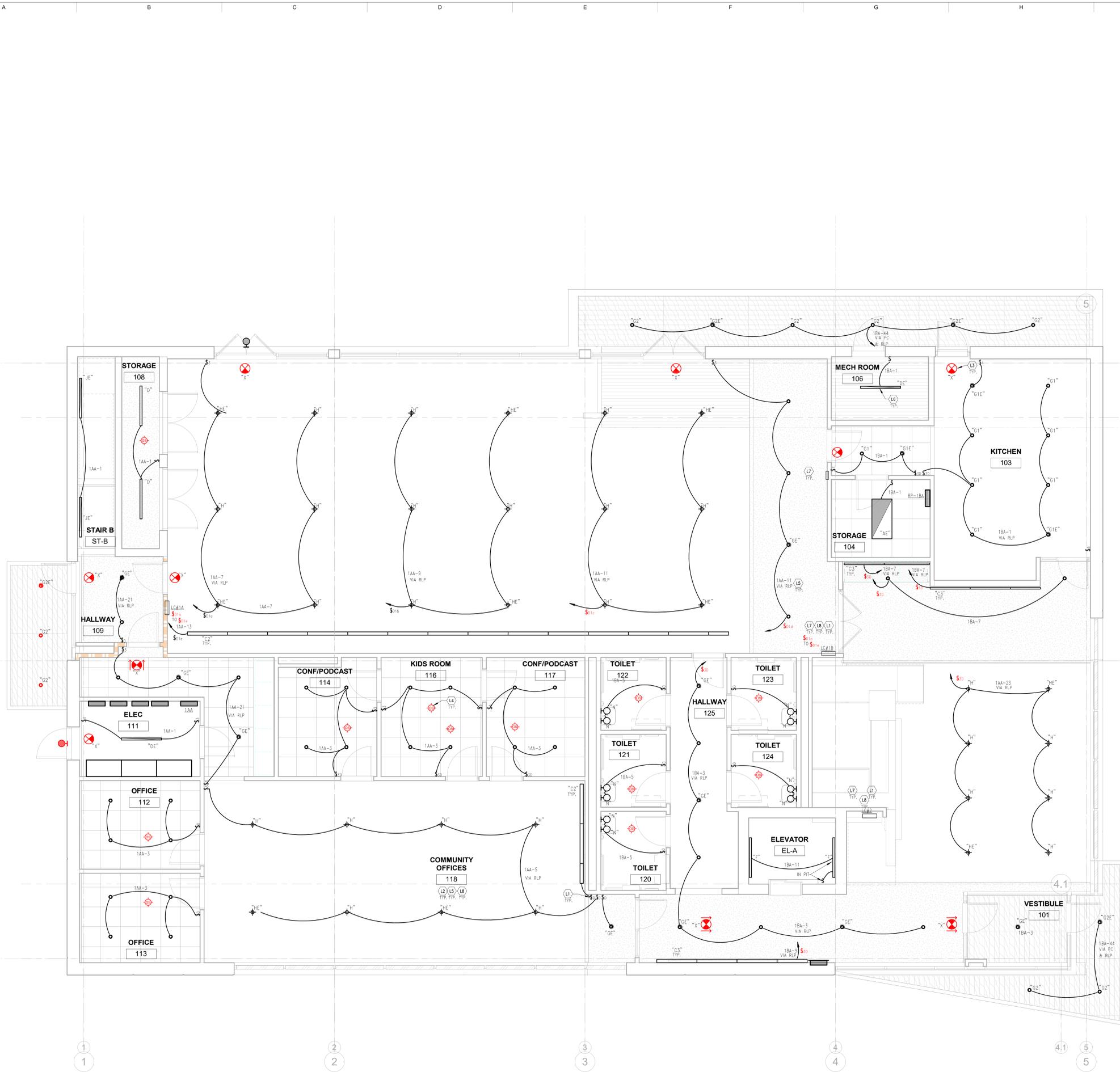
**SHEET #**  
**E-210**

**LIGHTING GENERAL NOTES:**

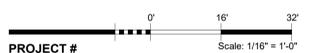
- A. ALL LIGHTING FIXTURES INDICATED ON THESE PLANS ARE TYPE "A" UNLESS OTHERWISE NOTED.
- B. REFER TO SHEET E-000 FOR ELECTRICAL LEGEND AND SHEET E-020 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL MATRIX.
- C. REFER TO SPECIFICATIONS FOR ADDITIONAL LAMP AND BALLAST REQUIREMENTS.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS AND SECTIONS FOR EXACT LOCATION OF ALL CEILING, PENDANT & WALL MOUNTED LIGHTING FIXTURES.
- E. ALL EXIT LIGHTS AND EMERGENCY LIGHTS (EM) SHALL BE WIRED TO ROOM OR AREA NORMAL LIGHTING CIRCUIT AHEAD OF LOCAL CONTROLS. SEE KEY NOTE THIS SHEET.
- F. IN ADDITION TO THE LOCAL SWITCHES SHOWN, PROVIDE A COMPLETE OCCUPANCY SENSOR AND RELAY PANEL BASED AUTOMATIC LIGHTING CONTROL SYSTEM. SYSTEM SHALL BE AS DESCRIBED IN SPECIFICATION SECTION 280500. DEVICES INDICATED ON PLAN ARE FOR REFERENCE ONLY. SYSTEM SHALL BE LAYED OUT ON A PERFORMANCE BASIS, TYPICAL FOR ALL ROOMS/AREAS AS SPECIFIED.
- G. ALL WIRING SHALL BE SIZED PROPERLY FOR FULL COMPLIANCE WITH THE NEC REQUIREMENTS FOR AMPACITY AND MAXIMUM VOLTAGE DROP LIMITATIONS.
- H. COORDINATE LOCATION OF ALL SWITCHES WITH DOOR LOCATIONS SHOWN ON THE ARCHITECTURAL PLANS.
- I. ALL LIGHTING FIXTURES SHALL BE EQUIPPED WITH LENSES OR SHIELDS FOR PROTECTION OF THE LAMPS OR WITH LAMPS THAT WILL NOT SHATTER.
- J. PROPOSED EQUAL LIGHTING FIXTURES TO BE SUBMITTED FOR ENGINEER & ARCHITECT/OWNERS REVIEW AND APPROVAL PRIOR TO BID.
- K. FOR ALL ROOMS WITH MECHANICAL EQUIPMENT (FURNACE ROOMS, MECHANICAL ROOMS AND CLOSETS ETC.) EXACT LOCATIONS FOR LIGHTING FIXTURES TO BE COORDINATED WITH DUCTWORK AND PIPING.
- L. REFER TO ENLARGED UNIT PLANS SHEET E-40X SERIES FOR UNITS TYPICAL LIGHTING LAYOUTS.
- M. ALL ELECTRICAL DEVICES SHALL BE LISTED FOR THE INTENDED USE.

**KEYED LIGHTING NOTES**

- L1 PROVIDE LINE/LOW VOLTAGE SWITCHES AND OVERRIDES FOR ROOMS/AREAS WIRED VIA THE LIGHTING CONTROL RELAY PANEL.
- L2 HALF SHADED LIGHTING FIXTURES WITH LOCAL CONTROLS SHALL BE PROVIDED WITH NORMAL AND EMERGENCY POWER INPUT CIRCUITS AS INDICATED AND WITH UL LISTED EMERGENCY LIGHTING CONTROL UNIT RATED FOR 20A. PROVIDE NORMAL SENSING VOLTAGE AHEAD OF LOCAL AND/OR AUTOMATIC SWITCHING. INSTALL LIGHTING CONTROL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE BODINE #BLCD-20B SERIES OR APPROVED EQUAL.
- L3 WIRE ALL EXIT AND EMERGENCY BATTERIES IN LIGHTING FIXTURES TO AREA/ROOM NORMAL LIGHTING CIRCUIT, AHEAD OF LOCAL AND AUTOMATIC LIGHTING CONTROL.
- L4 PROVIDE OCCUPANCY SENSORS AS REQUIRED. DEVICES INDICATED ON THESE PLANS ARE FOR REFERENCE ONLY. REFER TO GENERAL NOTE-F AND SPECIFICATIONS.
- L5 VIA RLP INDICATES LIGHTING CIRCUIT IS CONTROLLED VIA LIGHTING CONTROL RELAY PANEL. REFER TO GENERAL LIGHTING NOTE-F ABOVE.
- L6 EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL ROOMS TO BE COORDINATED WITH FINAL EQUIPMENT LAYOUT TO AVOID INTERFERENCES WITH DUCTS, PIPES AND EQUIPMENT, COORDINATE WITH MECHANICAL PRIOR TO INSTALLATIONS.
- L7 PROVIDE TOUCHSCREEN LIGHTING CONTROL STATIONS TO CONTROL LIGHTING IN OPEN AREAS, AS INDICATED. EXACT LOCATION OF LIGHTING CONTROL STATIONS TO BE COORDINATED WITH INTERIOR DESIGNER & ARCHITECT/OWNER PRIOR TO ROUGH IN.
- L8 PROVIDE DIMMER CONTROLS FOR ALL LIGHTING WITH 1% DIMMING, EXCEPT IN UTILITY ROOMS. PROVIDE DIMMERS RATED FOR THE LOAD CONTROLLED. DE-RATE FOR MULTI-GANG INSTALLATION AS REQUIRED. REFER TO SPECIFICATIONS. PROVIDE TYPE AND NUMBER OF DIMMERS AS REQUIRED FOR THE DIFFERENT LIGHTING LOADS. DIMMERS INDICATED ON PLANS ARE FOR REFERENCE ONLY.



1 Floor Plan - Level 1 - Lighting  
1/4" = 1'-0"



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

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## PROJECT West Michigan Hispanic Chamber of Commerce-HQ

1111 Godfrey  
Grand Rapids, MI 49507

CONSULTANT



**MAENGINEERING**  
MECHANICAL/ELECTRICAL

180 High Oak Road  
Bloomfield Hills, Michigan 48304

1/248/258/1610  
1/248/258/1638

PROFESSIONAL SEAL



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#	DESCRIPTION	DATE
1	Design Development	11/13/2024
2	Construction Documents - Progress Review	12/03/2024

KEY PLAN

SHEET TITLE  
Floor Plan - Level 2 - Lighting

PROJECT #  
2024-010.00

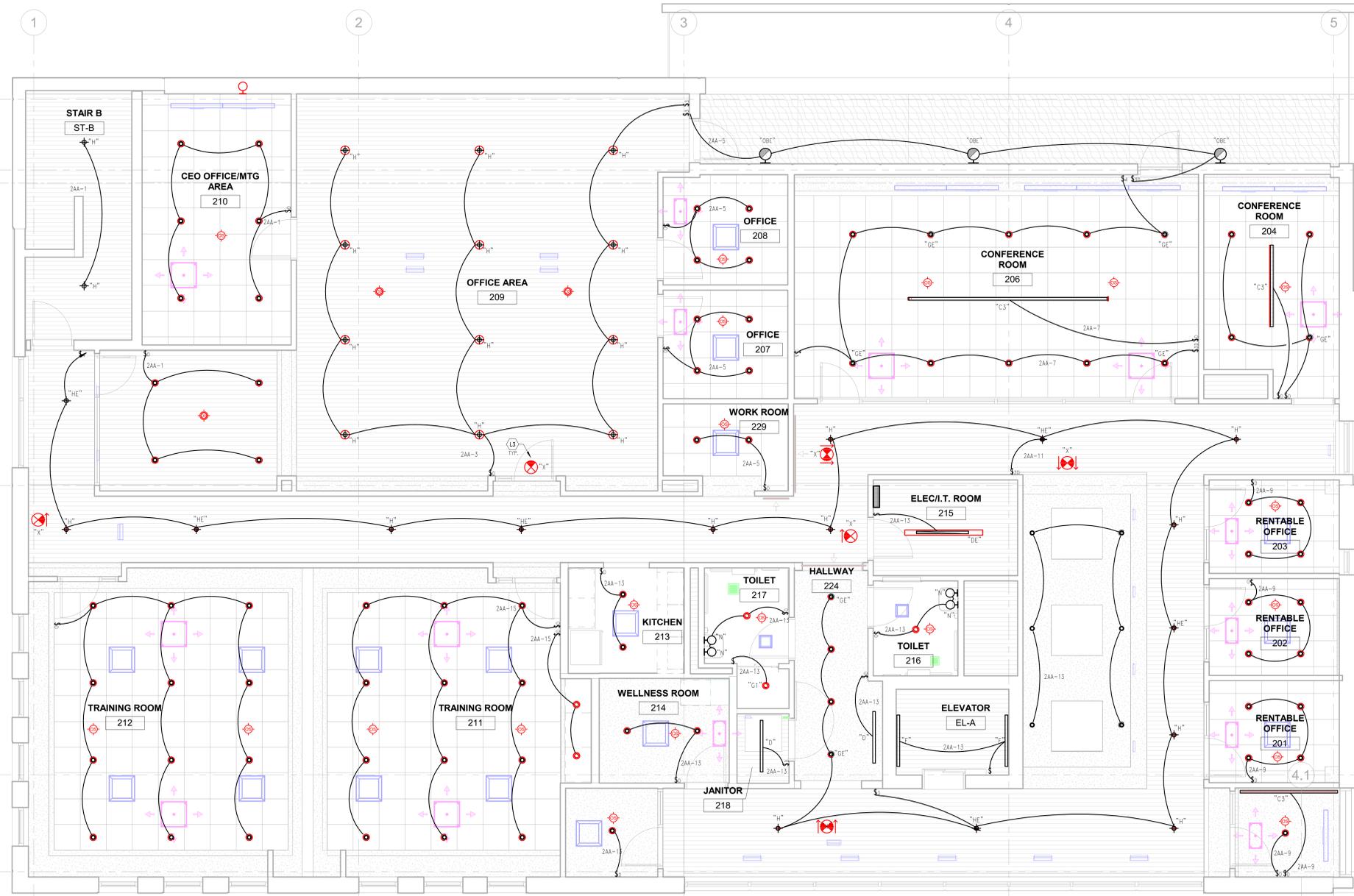
SHEET #  
**E-220**

### LIGHTING GENERAL NOTES:

- ALL LIGHTING FIXTURES INDICATED ON THESE PLANS ARE TYPE "A" UNLESS OTHERWISE NOTED.
- REFER TO SHEET E-000 FOR ELECTRICAL LEGEND AND SHEET E-020 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL MATRIX.
- REFER TO SPECIFICATIONS FOR ADDITIONAL LAMP AND BALLAST REQUIREMENTS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS AND SECTIONS FOR EXACT LOCATION OF ALL CEILING, PENDANT & WALL MOUNTED LIGHTING FIXTURES.
- ALL EXIT LIGHTS AND EMERGENCY LIGHTS (EM) SHALL BE WIRED TO ROOM OR AREA NORMAL LIGHTING CIRCUIT AHEAD OF LOCAL CONTROLS. SEE KEY NOTE THIS SHEET.
- IN ADDITION TO THE LOCAL SWITCHES SHOWN, PROVIDE A COMPLETE OCCUPANCY SENSOR AND RELAY PANEL BASED AUTOMATIC LIGHTING CONTROL SYSTEM. SYSTEM SHALL BE AS DESCRIBED IN SPECIFICATION SECTION 286500. DEVICES INDICATED ON PLAN ARE FOR REFERENCE ONLY. SYSTEM SHALL BE LAYED OUT ON A PERFORMANCE BASIS, TYPICAL FOR ALL ROOMS/AREAS AS SPECIFIED.
- ALL WIRING SHALL BE SIZED PROPERLY FOR FULL COMPLIANCE WITH THE NEC REQUIREMENTS FOR AMPACITY AND MAXIMUM VOLTAGE DROP LIMITATIONS.
- COORDINATE LOCATION OF ALL SWITCHES WITH DOOR LOCATIONS SHOWN ON THE ARCHITECTURAL PLANS.
- ALL LIGHTING FIXTURES SHALL BE EQUIPPED WITH LENSES OR SHIELDS FOR PROTECTION OF THE LAMPS OR WITH LAMPS THAT WILL NOT SHATTER.
- PROPOSED EQUAL LIGHTING FIXTURES TO BE SUBMITTED FOR ENGINEER & ARCHITECT/OWNERS REVIEW AND APPROVAL PRIOR TO BID.
- FOR ALL ROOMS WITH MECHANICAL EQUIPMENT (FURNACE ROOMS, MECHANICAL ROOMS AND CLOSETS ETC.) EXACT LOCATIONS FOR LIGHTING FIXTURES TO BE COORDINATED WITH DUCTWORK AND PIPING.
- REFER TO ENLARGED UNIT PLANS SHEET E-40X SERIES FOR UNITS TYPICAL LIGHTING LAYOUTS.
- ALL ELECTRICAL DEVICES SHALL BE LISTED FOR THE INTENDED USE.

### KEYED LIGHTING NOTES

- PROVIDE LINE/LOW VOLTAGE SWITCHES AND OVERRIDES FOR ROOMS/AREAS WIRED VIA THE LIGHTING CONTROL RELAY PANEL.
- HALF SHADED LIGHTING FIXTURES WITH LOCAL CONTROLS SHALL BE PROVIDED WITH NORMAL AND EMERGENCY POWER INPUT CIRCUITS AS INDICATED AND WITH UL LISTED EMERGENCY LIGHTING CONTROL UNIT RATED FOR 20A. PROVIDE NORMAL SENSING VOLTAGE AHEAD OF LOCAL AND/OR AUTOMATIC SWITCHING. INSTALL LIGHTING CONTROL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE BODINE #BLCD-20B SERIES OR APPROVED EQUAL.
- WIRE ALL EXIT AND EMERGENCY BATTERIES IN LIGHTING FIXTURES TO AREA/ROOM NORMAL LIGHTING CIRCUIT, AHEAD OF LOCAL AND AUTOMATIC LIGHTING CONTROL.
- PROVIDE OCCUPANCY SENSORS AS REQUIRED. DEVICES INDICATED ON THESE PLANS ARE FOR REFERENCE ONLY, REFER TO GENERAL NOTE-F AND SPECIFICATIONS.
- VIA RLP INDICATES LIGHTING CIRCUIT IS CONTROLLED VIA LIGHTING CONTROL RELAY PANEL. REFER TO GENERAL LIGHTING NOTE-F ABOVE.
- EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL ROOMS TO BE COORDINATED WITH FINAL EQUIPMENT LAYOUT TO AVOID INTERFERENCES WITH DUCTS, PIPES AND EQUIPMENT, COORDINATE WITH MECHANICAL PRIOR TO INSTALLATIONS.
- PROVIDE TOUCHSCREEN LIGHTING CONTROL STATIONS TO CONTROL LIGHTING IN OPEN AREAS, AS INDICATED. EXACT LOCATION OF LIGHTING CONTROL STATIONS TO BE COORDINATED WITH INTERIOR DESIGNER & ARCHITECT/OWNER PRIOR TO ROUGH IN.
- PROVIDE DIMMER CONTROLS FOR ALL LIGHTING WITH 1% DIMMING, EXCEPT IN UTILITY ROOMS. PROVIDE DIMMERS RATED FOR THE LOAD CONTROLLED. DE-RATE FOR MULTI-GANG INSTALLATION AS REQUIRED. REFER TO SPECIFICATIONS. PROVIDE TYPE AND NUMBER OF DIMMERS AS REQUIRED FOR THE DIFFERENT LIGHTING LOADS. DIMMERS INDICATED ON PLANS ARE FOR REFERENCE ONLY.



1 Floor Plan - Level 2 - Lighting  
1/4" = 1'-0"

## PROJECT

# West Michigan Hispanic Chamber of Commerce-HQ

1111 Godfrey  
Grand Rapids, MI 49507

### CONSULTANT



180 High Oak Road  
Bloomfield Hills, Michigan 48304  
11248125811610  
11248125819538

### PROFESSIONAL SEAL



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#	DESCRIPTION	DATE
1	Design Development	11/13/2024
2	Construction Documents - Progress Review	12/03/2024

### KEY PLAN

SHEET TITLE  
Floor Plan - Level 1 - Power

PROJECT #  
2024-010.00

SHEET #  
E-310

### POWER GENERAL NOTES:

- A. REFER TO SHEET E-000 FOR ELECTRICAL LEGEND.
- B. PROVIDE COMPLETE ADDRESSABLE FIRE ALARM SYSTEM FOR THE BUILDING. FIRE ALARM SYSTEM SHALL INCLUDE ALL CONTROL, MONITORING, POWER SUPPLIES, INITIATING DEVICES, INDICATING APPLIANCES, CONTROL MODULES AND WIRING AS REQUIRED BY AUTHORITIES HAVING JURISDICTION FOR AN APPROVED INSTALLATION. REFER TO SPECIFICATIONS. SYSTEM SHALL BE LAYED OUT ON A PERFORMANCE BASIS. DEVICES INDICATED ON PLANS ARE FOR REFERENCE ONLY.
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- P5 DUPLEX RECEPTACLES AND DATA OUTLETS FOR FLAT SCREEN TV SHALL BE MOUNTED AT 5'-0" AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT/OWNER FOR EXACT QUANTITIES, LOCATIONS AND MOUNTING HEIGHTS.
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1 Floor Plan - Level 1 - Power  
1/4" = 1'-0"

Autodesk Docs://West Mich Hispanic Chamber of Commerce/66890-WHCHC HQ\_Elec\_V02.rvt  
2/4/2025 11:43:06 AM

## PROJECT West Michigan Hispanic Chamber of Commerce-HQ

1111 Godfrey  
Grand Rapids, MI 49507

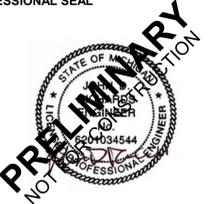
### CONSULTANT



**MAENGINEERING**  
MECHANICAL ELECTRICAL

180 High Oak Road  
Bloomfield Hills, Michigan 48304  
1(248) 258-1610  
1(248) 258-1938

### PROFESSIONAL SEAL



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#	DESCRIPTION	DATE
1	Design Development	11/13/2024
2	Construction Documents - Progress Review	12/03/2024

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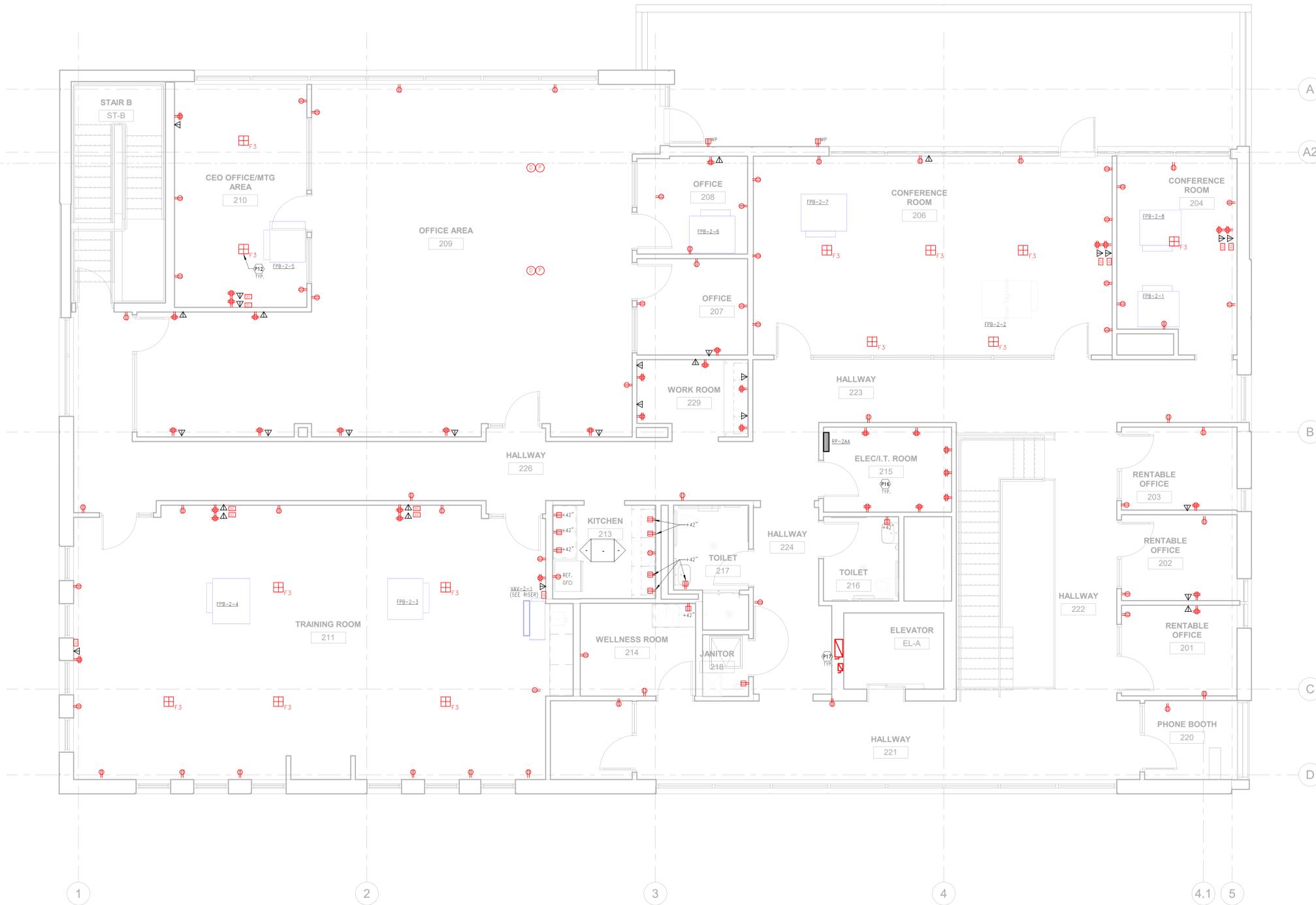
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### KEY PLAN

SHEET TITLE  
Floor Plan - Level 2 - Power

PROJECT #  
2024-010.00  
Scale: 1/16" = 1'-0"

SHEET #  
E-320



1 Floor Plan - Level 2 - Power  
1/4" = 1'-0"

**PROJECT**

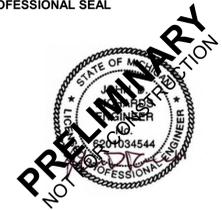
**West Michigan  
Hispanic  
Chamber of  
Commerce-HQ**

1111 Godfrey  
Grand Rapids, MI 49507

**CONSULTANT**



**PROFESSIONAL SEAL**



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**KEY PLAN**

**SHEET TITLE**  
Roof Plan - Power

**PROJECT #**  
2024-010.00

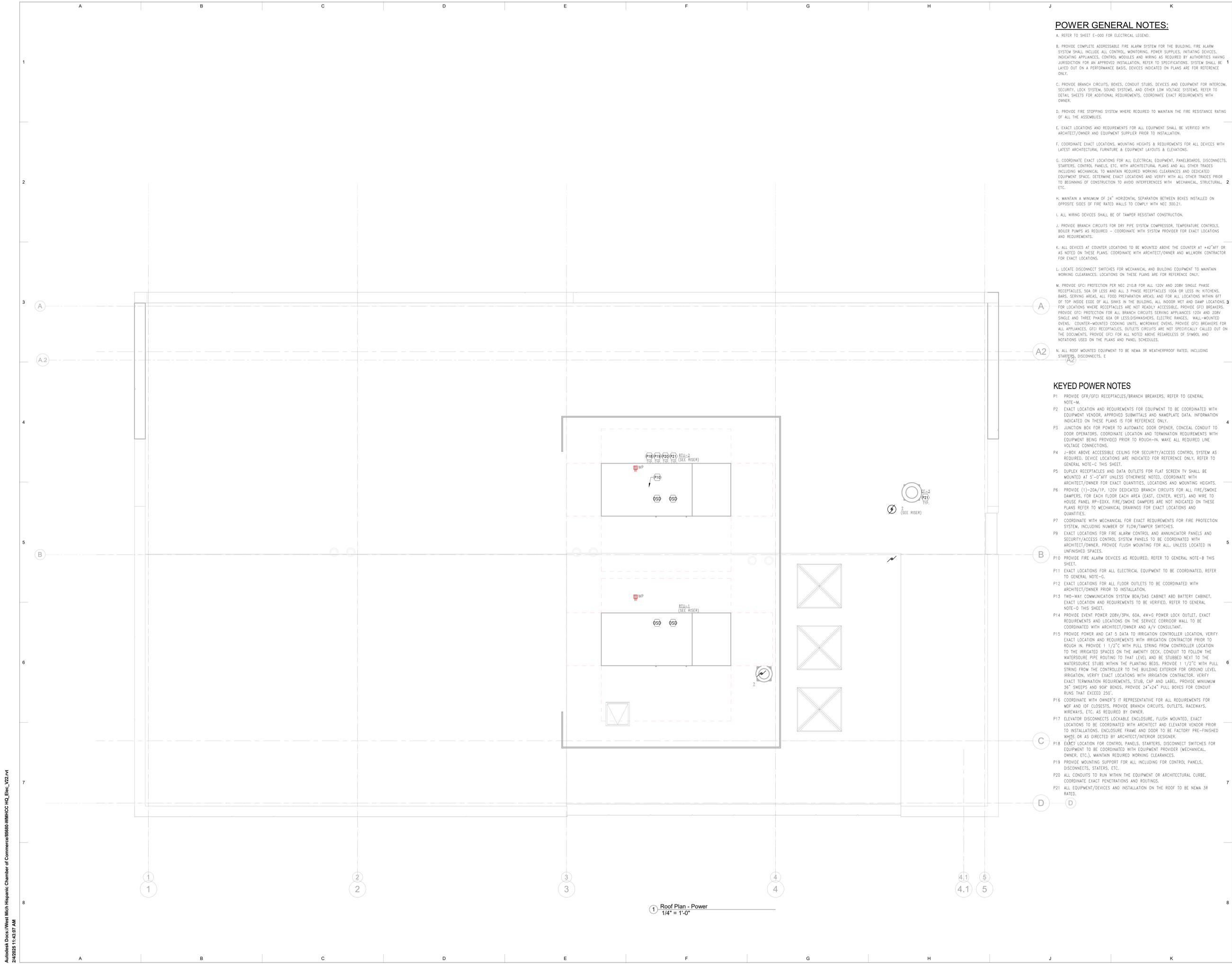
**SHEET #**  
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- P19 PROVIDE MOUNTING SUPPORT FOR ALL INCLUDING FOR CONTROL PANELS, DISCONNECTS, STARTERS, ETC.
- P20 ALL CONDUITS TO RUN WITHIN THE EQUIPMENT OR ARCHITECTURAL CURBE, COORDINATE EXACT PENETRATIONS AND ROUTINGS.
- P21 ALL EQUIPMENT/DEVICES AND INSTALLATION ON THE ROOF TO BE NEMA 3R RATED.



**1 Roof Plan - Power**  
1/4" = 1'-0"

Autodesk Docs://West Mich Hispanic Chamber of Commerce/6690-WHCHC-HQ\_Elec\_V02.rvt  
2/4/2025 11:43:07 AM

### PROJECT

## West Michigan Hispanic Chamber of Commerce-HQ

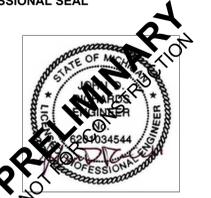
1111 Godfrey  
Grand Rapids, MI 49507

### CONSULTANT

180 High Oak Road  
Bloomfield Hills, Michigan 48304

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### PROFESSIONAL SEAL



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#	DESCRIPTION	DATE
1	Design Development	11/13/2024

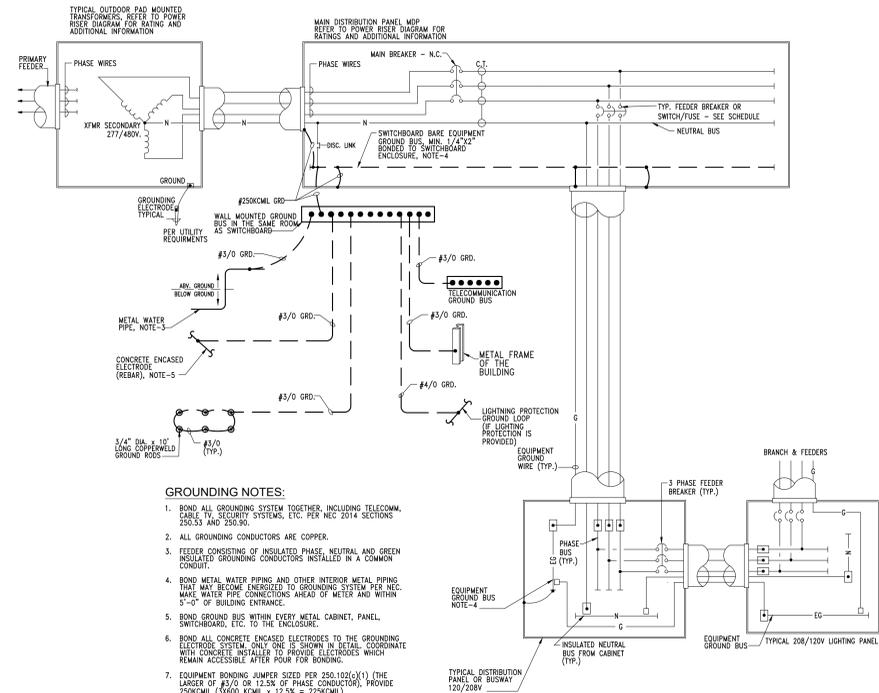
### KEY PLAN

### SHEET TITLE Electrical Details

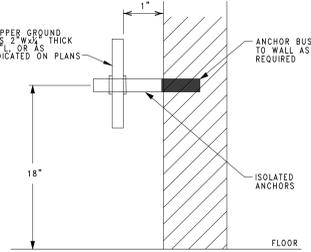
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SHEET #

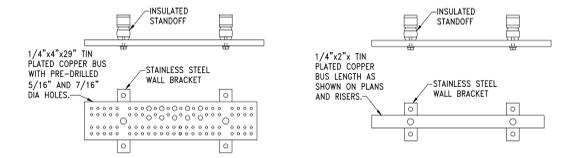
# E-500



- GROUNDING NOTES:**
- BOND ALL GROUNDING SYSTEM TOGETHER, INCLUDING TELECOM, JENSES AND SQUIET SYSTEMS, ETC. PER NEC 2014 SECTION 250.36.
  - ALL GROUNDING CONDUCTORS ARE COPPER.
  - FEEDER CONSISTING OF INSULATED PHASE, NEUTRAL AND GREEN INSULATED GROUNDING CONDUCTORS INSTALLED IN A COMMON CONDUIT.
  - BOND METAL WATER PIPING AND OTHER INTERIOR METAL PIPING THAT MAY BECOME ENERGIZED TO GROUNDING SYSTEM PER NEC. MAKE WATER PIPE CONNECTIONS AHEAD OF METERS AND WITHIN 5'-0" OF BUILDING ENTRANCE.
  - BOND GROUND BUS WITHIN EVERY METAL CABINET, PANEL, SWITCHBOARD, ETC. TO THE ENCLOSURE.
  - BOND ALL CONCRETE ENCASED ELECTRODES TO THE GROUNDING ELECTRODE SYSTEM. ONLY ONE IS SHOWN IN DETAIL. COORDINATE WITH CONCRETE INSTALLER TO PROVIDE ELECTRODES WHICH REMAIN ACCESSIBLE AFTER POUR FOR BONDING.
  - EQUIPMENT BONDING JUMPER SIZED PER 250.102(1)(1) (THE LARGER OF #5/0 OR 12.5% OF PHASE CONDUCTOR). PROVIDE 250KCMIL (50600 KCMIL x 12.5% = 2500KCMIL).

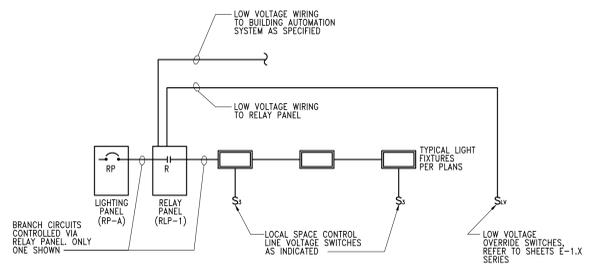


### GROUND BUS DETAIL SCALE: NTS

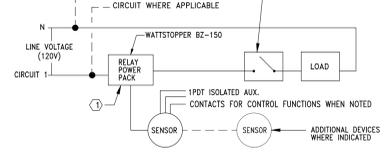


### TYPICAL TELECOMMUNICATION ROOM GROUND BUS ASSEMBLY SCALE: NO SCALE

### TYPICAL GROUND BUS ASSEMBLIES SCALE: NO SCALE

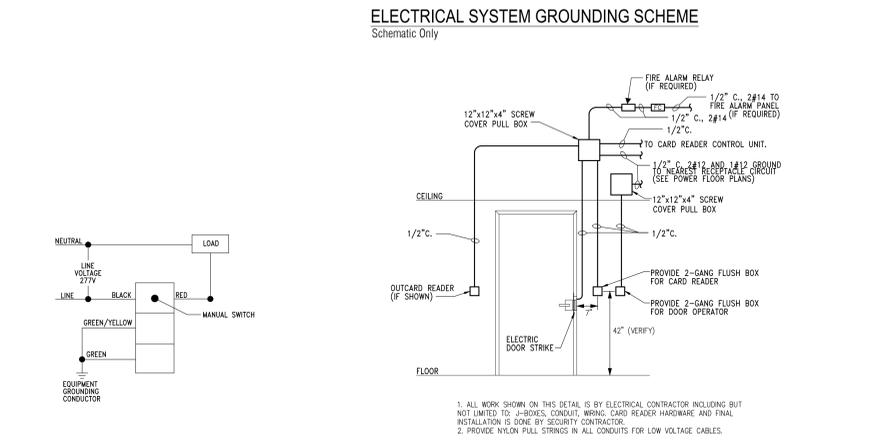


### AUTOMATIC LIGHTING CONTROL OVERRIDE SCHEMATIC DIAGRAM No Scale



- KEY NOTES:**
- OCCUPANCY SENSOR MODEL NUMBERS WIRING DIAGRAMS AND CONDUCTOR COLORS ARE BASED ON WATTSSTOPPER. EQUAL EQUIPMENT ON THE MSH PREFERRED MANUFACTURERS LIST MAY BE USED. MODIFY DIAGRAMS ACCORDINGLY PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND INDICATE ON AS-BUILT DOCUMENTS.

### SCHEMATIC OCCUPANCY CONTROL DETAIL (CEILING MOUNTED SENSOR) ① No Scale

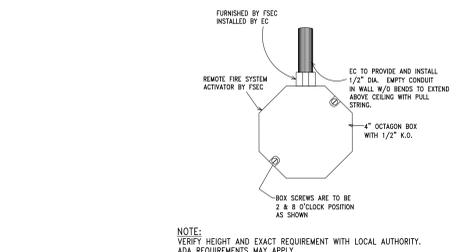


### TYPICAL CARD READER DOOR DETAIL SCALE: NO SCALE

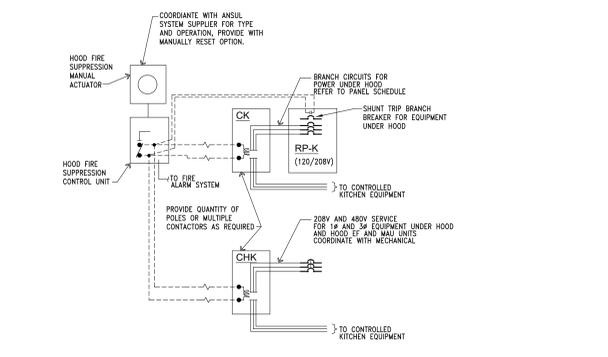
### WALL MOUNTED SENSOR No Scale

### TYPICAL TELECOMMUNICATION OUTLET DETAIL No Scale

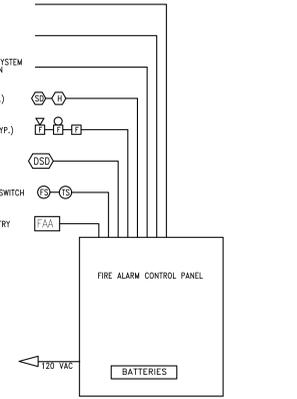
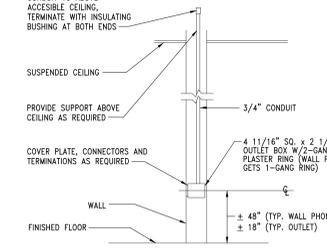
### FIRE ALARM SYSTEM RISER Schematic Only



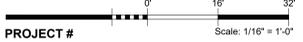
### ANSUL FIRE SYSTEM REMOTE PULL STATION DETAIL Schematic Only



### WIRING SCHEMATIC FOR HOOD FIRE SUPPRESSION SYSTEM Schematic Only



NOTE: SUBMIT DETAILED DRAWING OF SYSTEM AND ALL COMPONENTS FOR APPROVAL BY THE A/E AND THE LOCAL FIRE MARSHAL (LHM).



## PROJECT West Michigan Hispanic Chamber of Commerce- HQ

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Grand Rapids, MI 49507

### CONSULTANT



### PROFESSIONAL SEAL

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#	DESCRIPTION	DATE
1	Bid Set	01/24/2025

### KEY PLAN

SHEET TITLE  
Fire Protection Plan - Level 1

PROJECT #  
2024-010.00

SHEET #

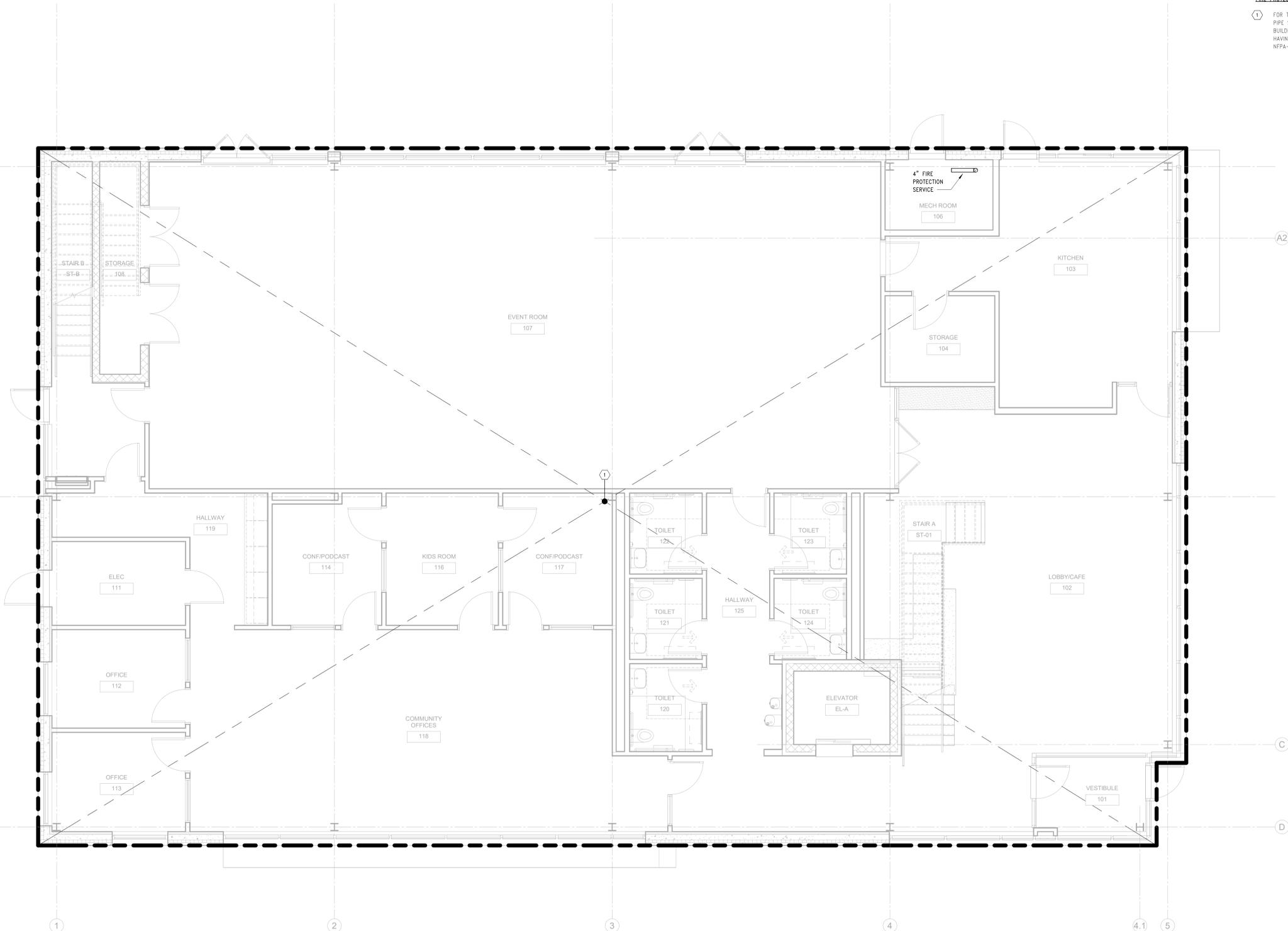
# FP-111

### FIRE PROTECTION GENERAL NOTES

- THE FOLLOWING GENERAL NOTES APPLY TO ALL FIRE PROTECTION SHEETS INCLUDED WITHIN THIS DOCUMENT SET, EXCEPT WHERE OTHERWISE INDICATED.
- COORDINATE ALL WORK WITH THE OWNER AND ARCHITECTURAL PLANS.
  - SUBMIT DRAWINGS TO THE FIRE MARSHAL AND OWNER'S INSURANCE COMPANY FOR REVIEW AND APPROVAL.
  - PAY ALL FEES RELATED TO THE REQUIRED PERMITS AND INSPECTIONS.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION OF SPRINKLER HEAD LOCATIONS; IT IS THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SPRINKLERS REQUIRED BY THE CODE REGARDLESS IF SHOWN ON THE REFLECTED CEILING PLANS.
  - ALL SPRINKLER TAKE-OFFS FROM MAIN SHALL BE OFF THE TOP OF THE MAIN WITH TWO ELBOWS OR U.L. LISTED FLEXIBLE SPRINKLER CONNECTION.
  - ALL SPRINKLER HEADS LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE MIDDLE OF CEILING TILES UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS.
  - FOR SPRINKLER HEAD TYPE, REFER TO SPECIFICATIONS.

### FIRE PROTECTION KEY NOTES

- ① FOR THE AREA INDICATED, PROVIDE A NEW HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA-13, THE MICHIGAN BUILDING CODE, THE OWNER'S INSURANCE COMPANY AND THE AUTHORITY HAVING JURISDICTION. PROVIDE DESIGN DENSITIES AS REQUIRED BY NFPA-13.



**1** FIRE PROTECTION PLAN - LEVEL 1  
FP-111 SCALE: 1/4" = 1'-0"

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## PROJECT West Michigan Hispanic Chamber of Commerce- HQ

1111 Godfrey  
Grand Rapids, MI 49507

CONSULTANT



PROFESSIONAL SEAL

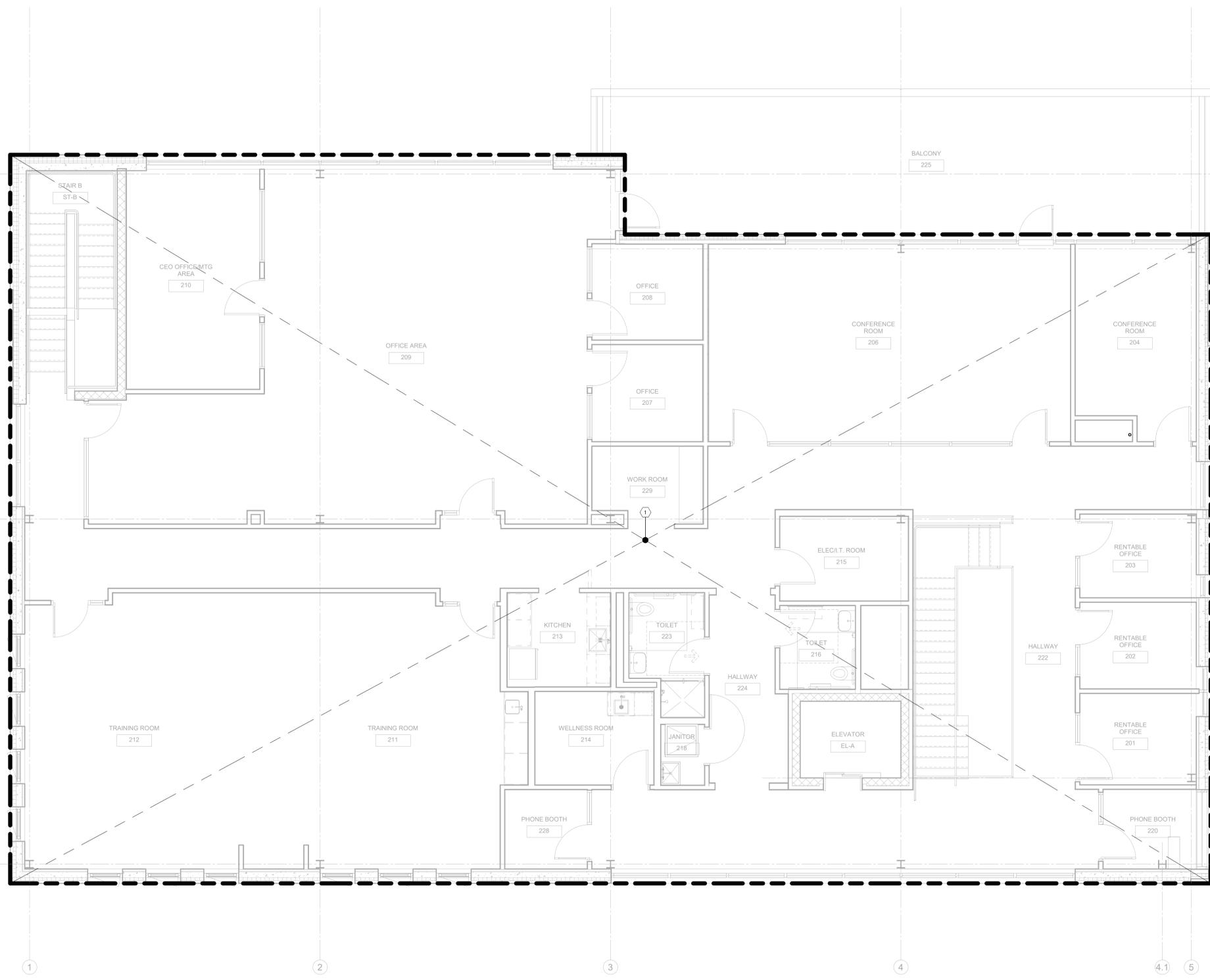
### FIRE PROTECTION GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL FIRE PROTECTION SHEETS INCLUDED WITHIN THIS DOCUMENT SET, EXCEPT WHERE OTHERWISE INDICATED.

1. COORDINATE ALL WORK WITH THE OWNER AND ARCHITECTURAL PLANS.
2. SUBMIT DRAWINGS TO THE FIRE MARSHAL AND OWNER'S INSURANCE COMPANY FOR REVIEW AND APPROVAL.
3. PAY ALL FEES RELATED TO THE REQUIRED PERMITS AND INSPECTIONS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION OF SPRINKLER HEAD LOCATIONS. IT IS THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SPRINKLERS REQUIRED BY THE CODE REGARDLESS IF SHOWN ON THE REFLECTED CEILING PLANS.
5. ALL SPRINKLER TAKE-OFFS FROM MAIN SHALL BE OFF THE TOP OF THE MAIN WITH TWO ELBOWS OR U.L. LISTED FLEXIBLE SPRINKLER CONNECTION.
6. ALL SPRINKLER HEADS LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE MIDDLE OF CEILING TILES UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS.
7. FOR SPRINKLER HEAD TYPE, REFER TO SPECIFICATIONS.

### FIRE PROTECTION KEY NOTES

- ① FOR THE AREA INDICATED, PROVIDE A NEW HYDRAULICALLY DESIGNED WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA-13, THE MICHIGAN BUILDING CODE, THE OWNER'S INSURANCE COMPANY AND THE AUTHORITY HAVING JURISDICTION. PROVIDE DESIGN DENSITIES AS REQUIRED BY NFPA-13.



**1** FIRE PROTECTION PLAN - LEVEL 2  
FP-121 SCALE: 1/4" = 1'-0"

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#	DESCRIPTION	DATE
1	Bid Set	01/24/2025

KEY PLAN

SHEET TITLE  
Fire Protection Plan - Level 2

PROJECT #  
2024-010.00

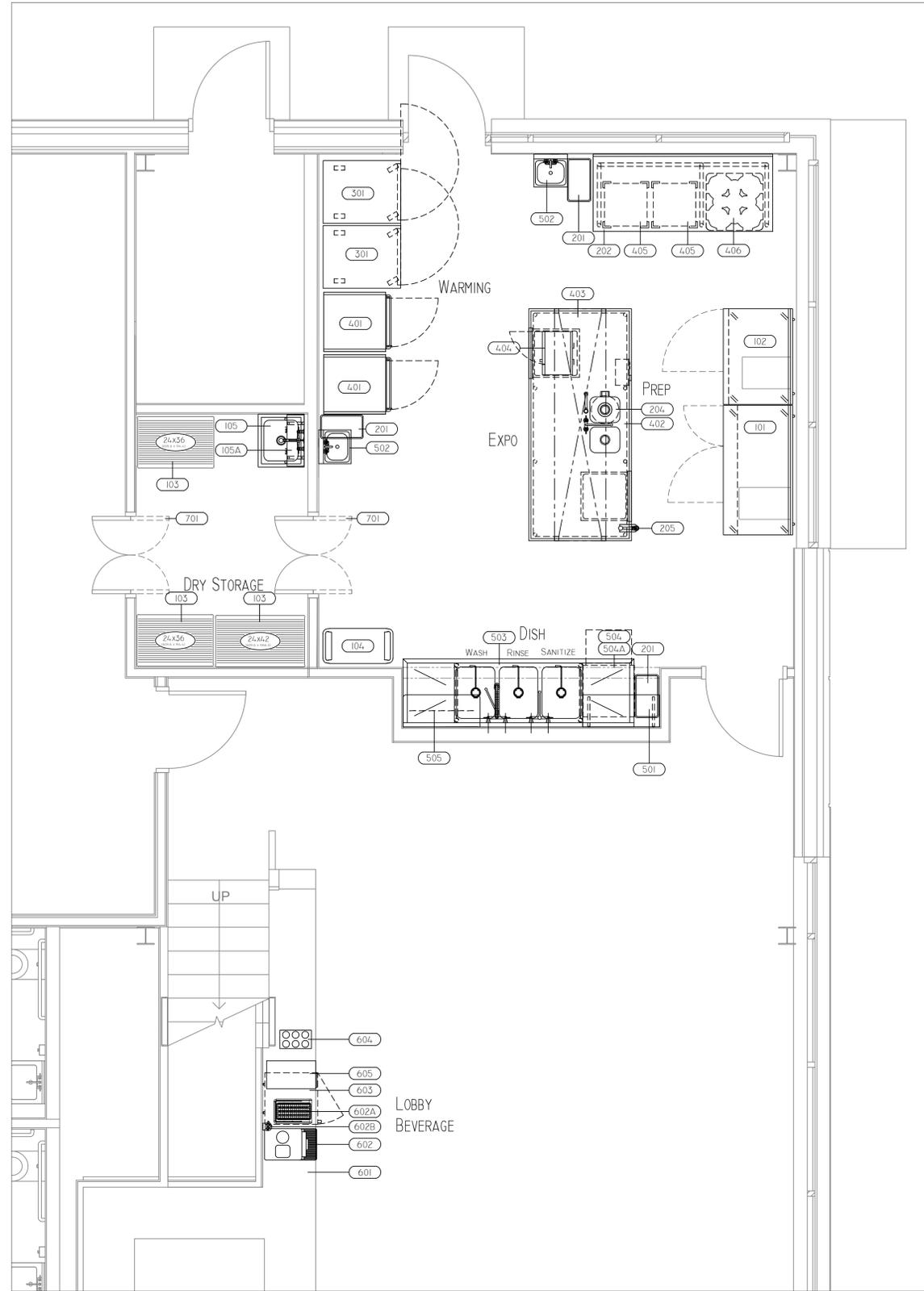
SHEET #

**FP-121**

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NOTES TO ALL TRADES:

- KITCHEN EQUIPMENT SHALL BE DELIVERED AND ERECTED BY F.S.E.C. (FOODSERVICE EQUIPMENT CONTRACTOR).
- TRADES SHALL MAKE ALL FINAL CONNECTIONS BETWEEN EQUIPMENT AND ROUGH-IN POINT AND FURNISH ALL WIRING, SWITCHES, CONTROLS, SERVICE VALVES, PIPING, ETC. AS REQUIRED.
- ALL REQUIREMENTS SHOWN ON DRAWINGS ARE REQUIRED FOR THE PROPER FUNCTION OF FOODSERVICE EQUIPMENT. TRADES SHALL PROVIDE ALL ADDITIONAL ROUGH-INS REQUIRED FOR OWNER SUPPLIED OR RELOCATED EQUIPMENT OR AS SHOWN ON ARCHITECTURAL - ENGINEERS DRAWINGS.
- TRADES SHALL FURNISH AND INSTALL ALL ACCESSORIES (FAUCETS, DRAINS, SWITCHES, VALVES, GAS HOSES, ETC.) FURNISHED BY F.S.E.C.
- MECHANICAL TRADES SHALL PROVIDE WATER HEATER AND JANITOR SINK WITH HOSE BIB FAUCET UNLESS NOTED IN ITEM SPECIFICATIONS.
- SLOPES TO FD'S SHOULD BE HELD TO A MINIMUM DIMENSION. FLOOR SINKS OR FLOOR DRAINS TO BE OF ADEQUATE SIZE TO PREVENT OVERFLOW OF ADJACENT EQUIPMENT.
- ALL "ROUGH-INS" SHOULD BE "UP-WITHIN" AND THEN "OUT-OF" WALLS WHEREVER POSSIBLE TO KEEP FLOORS AS CLEAN AS POSSIBLE. ROUGH-INS ARE SHOWN AT TERMINATION POINT TO ALLOW WIRING /PIPING TO FIXTURE BY TRADES.
- TRADES TO ADVISE OF LOCATION OF UTILITY ACCESS HOLES IN EQUIPMENT WHICH SHALL BE PROVIDED BY F.S.E.C.
- GENERAL TRADES SHALL PROVIDE WALL OR FLOOR OR FLOOR PENETRATIONS, AND FLOOR RECESS FOR FLOOR GRATES, WALK-INS, ETC.
- PROVIDE MINIMUM OF 3'-0" DOOR OPENING FOR EQUIPMENT INSTALLATION.
- EQUIPMENT DESIGNATED AS RELOCATED SHALL BE DISCONNECTED FROM UTILITIES BY THE TRADES.
- GENERAL TRADES SHALL PROVIDE VENTILATION STRUCTURAL SUPPORT OF PENETRATIONS AND FIRE PROOFING UNLESS NOTED IN ITEM SPECIFICATIONS.
- EXHAUST HOOD SHALL BE USED FOR VENTILATION OF COOKING EQUIPMENT ONLY, TRADES SHALL PROVIDE ROOM VENTILATION (A/C RECOMMENDED AS REQUIRED).
- MECHANICAL TRADES SHALL PROVIDE ADEQUATE VENTILATION FOR ALL REFRIGERATION COMPRESSORS, WHETHER AIR OR WATER COOLED.
- TRADES SHALL VERIFY ROUGH-IN REQUIREMENTS FOR FUTURE, PURVEYOR SUPPLIED, OWNERS RELOCATED EQUIPMENT, OWNERS SUPPLIED EQUIPMENT, ETC.
- TRADES SHALL DISCONNECT, RELOCATE AND RECONNECT EXISTING EQUIPMENT AS REQUIRED.
- HEIGHTS GIVEN FOR ELECTRICAL ROUGH-INS TO CENTER OF VERTICALLY MOUNTED BOX.
- G.C. TO PROVIDE BACKING FOR WALL MOUNTED EQUIPMENT - F.S.E.C. SHALL COORDINATE LOCATION OF BACKING WITH G.C.
- TRADES SHALL REVIEW ALL ROUGH-IN'S AND SHOP DRAWINGS FROM F.S.E.C. AND ADVISE PRIOR TO ROUGHING IN IF ANY CHANGES ARE REQUIRED.
- OWNER SHALL COORDINATE ROUGH-IN REQUIREMENTS FOR OWNER SUPPLIED EQUIPMENT WITH ALL TRADES.
- TRADES TO USE EXISTING ROUGH-IN'S IF APPLICABLE.
- EQUIPMENT NOT BEING RE-USED TO BE DISCONNECTED FROM UTILITIES BY TRADES.
- EQUIPMENT DESIGNATED AS RELOCATED SHALL BE RECONNECTED BY THE TRADES.
- TRADES TO VERIFY VENTILATION DATA WITH HOOD MFG. SHOP DRAWINGS.
- WALL BEHIND EXHAUST HOOD TO BE NON COMBUSTIBLE. SECTION 507.1 FROM MICHIGAN MECHANICAL CODE REFERS TO SECTION 4.2.1 FROM NFPA 96 2014 EDITION.



**FLOOR PLAN**  
SCALE: 3/8"= 1'-0"

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 DATE: \_\_\_\_\_

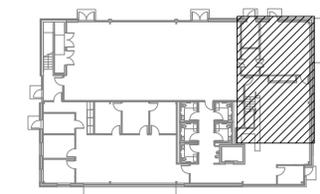
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EQUIPMENT SCHEDULE			
ITEM No	QTY	EQUIPMENT CATEGORY	EQUIPMENT REMARKS
101	1	REFRIGERATOR, WORKTOP	
102	1	FREEZER, WORKTOP	
103	3	SHELVING, WIRE	4-TIER
104	1	CART, BUSSING	
105	1	SINK, MOP	
105A	1	SINK, MOP ACCESSORY	
201	3	* BIN, TRASH	BY OWNER
202	1	TABLE, WORK	OPEN BASE
203	1	SPARE NUMBER	
204	1	DISPOSER, GARBAGE	
205	1	CAN OPENER	
301	2	OVEN, REHEAT AND HOLD	
401	2	CABINET, HOLDING/PROOFING	
402	1	TABLE, WORK	
403	1	OVERSHELF, DOUBLE, TABLE MOUNT	
404	1	OVEN, MICROWAVE	
405	2	DOLLY, DISHRACK	
406	1	DOLLY, ADJUSTABLE PLATE	
501	1	SHELF, WALL MOUNT	
502	2	SINK, HAND, WALL MOUNT	
503	1	SINK, 3 COMPARTMENTS	
504	1	WAREWASHER, UNDERCOUNTER	
504A	1	DRAIN WATER TEMPERING KIT	
505	1	POT RACK, WALL MOUNT	
601	1	* SERVICE COUNTER	BY MILLWORK
602	1	ESPRESSO MACHINES, AUTOMATIC	
602A	1	ESPRESSO MACHINES, ACCESSORY	
602B	1	FILTER SYSTEM, ESPRESSO MACHINE	
603	1	REFRIGERATOR, UNDERCOUNTER	
604	1	BOTTLE ORGANIZER	
605	1	CUP DISPENSER	
701	2	KITCHEN SWING DOOR	

**FOR REFERENCE ONLY**

KEY PLAN



NOTE FOR EQUIPMENT SCHEDULE  
 \* NOTE: DENOTES EXISTING EQUIPMENT TO BE RE-USED OR BY OTHERS.  
 \* NOTE: ASTERISK ITEMS ARE (N.I.F.E.C.) NOT IN FOODSERVICE EQUIPMENT CONTRACT.  
 \* NOTE: ALL TRADES TO VERIFY EQUIPMENT UTILITY REQUIREMENTS FOR EQUIPMENT BY LESSEE, OR BY OTHERS.  
 \* NOTE: DO NOT START WORK UNLESS ALL ITEMS BY OWNER OR OTHERS HAVE BEEN VERIFIED.

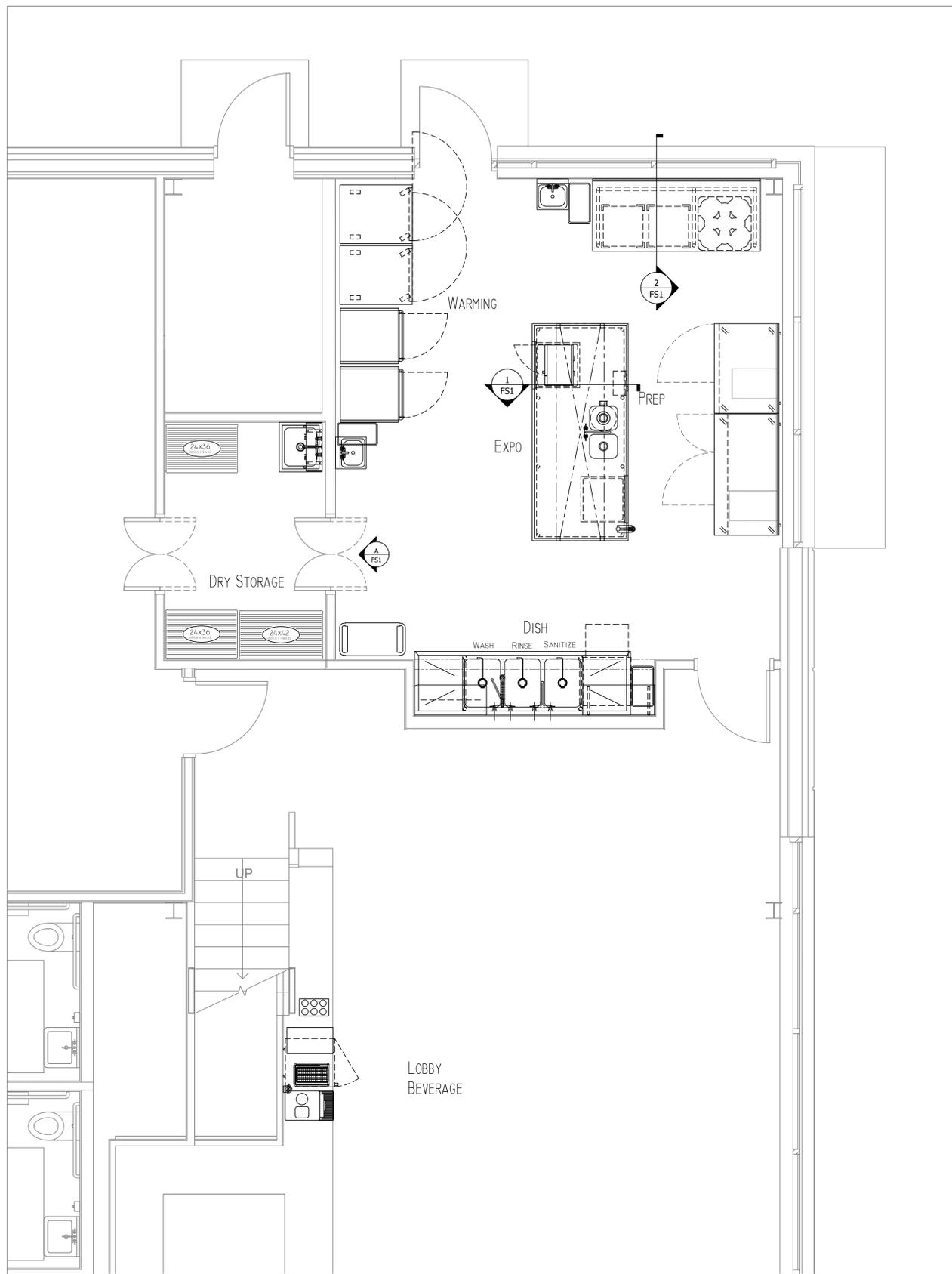
WEST MICHIGAN HISPANIC CHAMBER OF COMMERCE

DOCUMENT ISSUE DATE	
DATE	ISSUE
02/07/2025	SCHEMATIC DESIGN
01/10/2025	SCHEMATIC DESIGN
01/10/2025	SCHEMATIC DESIGN
01/09/2025	SCHEMATIC DESIGN
02/07/2025	DESIGN DEVELOPMENT

REVISIONS		
NO.	DATE	DESCRIPTION

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FLOOR PLAN  
 SCALE: 3/8"=1'  
 SHEET NO.  
 FS-1  
 PROJECT NO. -  
 DATE: 02/07/2025



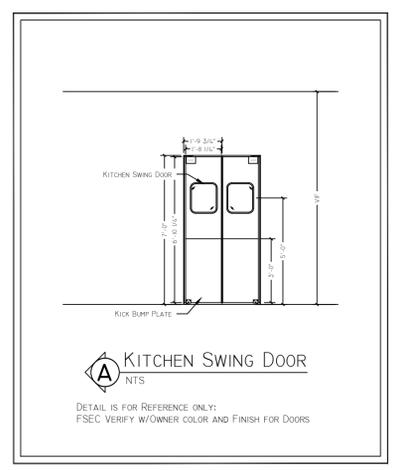
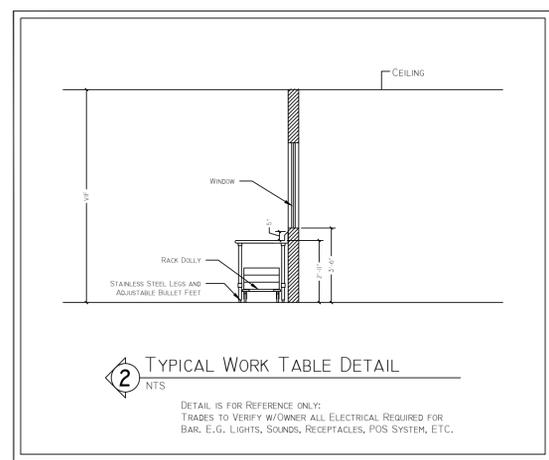
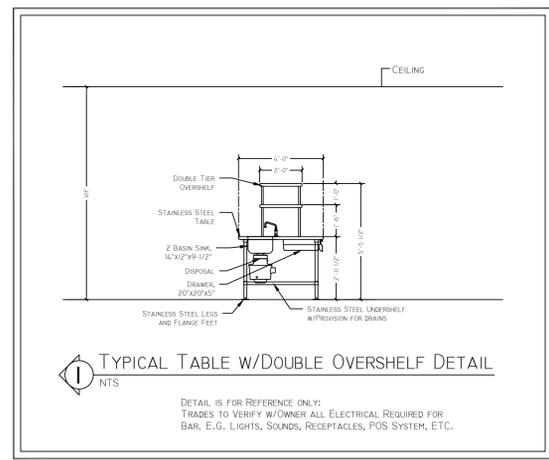
**DETAIL PLAN**  
SCALE: 1/4" = 1'-0"

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 P 616-791-1100  
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NOTE FOR EQUIPMENT SCHEDULE

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DATE	ISSUE
02/07/2025	Design Development

NO.	DATE	DESCRIPTION
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DETAIL PLAN  
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 FS-2  
 PROJECT NO. -  
 DATE: 02/07/2025