



# West Michigan Hispanic Chamber of Commerce - HQ

1111 Godfrey Ave. SW  
Grand Rapids, MI  
49507

Project Number: 2024-010.00

Issued For: Addendum 1

OWNER:  
WEST MICHIGAN HISPANIC CHAMBER OF COMMERCE

2007 Division Ave S  
Grand Rapids, MI 49507  
T: 616-706-8368  
CONTACT: Brad Laackman, Owner Representative

GENERAL CONTRACTOR:  
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660 Fulton St  
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T: 616-676-1222  
CONTACT: Kevin Osbeck

STRUCTURAL ENGINEER:  
Resurget Engineering

28 W Adams Ave, Suite 1710  
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T: 313-315-3290  
CONTACT: Marc Steinhobel

ARCHITECT OF RECORD:  
ROSSETTI

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CONTACT: William Smith, Associate  
W: www.rossetti.com

MEP ENGINEER:  
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180 High Oak Rd  
Bloomfield Hills, MI 48304  
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OWNER CONSULTANTS

CIVIL ENGINEER:  
Exxel Engineering Inc

5252 Clyde Park Ave SW  
Grand Rapids, MI 49509  
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CONTACT: John Male

FOOD EQUIPMENT CONSULTANT:  
Merchandise Equipment & Supply

2039 Walker Ct NW  
Grand Rapids, MI 49544  
T: 616-791-1100  
CONTACT: Adam Howe

## GENERAL

"N" NEW DRAWING

DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
G-000	Cover Sheet	Addendum 1	02/20/2025
G-001	General Information Sheet	Addendum 1	02/20/2025
G-002	Mounting Heights	Addendum 1	02/20/2025
G-003	Code Analysis & Life Safety Plan	Addendum 1	02/20/2025
N G-004	Products and Specs	Addendum 1	02/20/2025
G-005	Products and Specs	Addendum 1	02/20/2025
G-006	Products and Specs	Addendum 1	02/20/2025
G-007	LEED Specifications	Addendum 1	02/20/2025

DRAWINGS: 8

## CIVIL

"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

"N" NEW DRAWING

DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
A-001	Architectural Site Plan	Addendum 1	02/20/2025
A-101	Floor Plan - Level 1	Addendum 1	02/20/2025
A-102	Floor Plan - Level 2	Addendum 1	02/20/2025
A-103	Roof Plan	Addendum 1	02/20/2025
A-201	Elevations - East and South	Addendum 1	02/20/2025
A-202	Elevations - West and North	Addendum 1	02/20/2025
A-301	Building Sections	Addendum 1	02/20/2025
A-302	Wall Profiles	Addendum 1	02/20/2025
A-303	Details	Addendum 1	02/20/2025
A-304	Details	Addendum 1	02/20/2025
A-401	Stairs & Elevator - Enlarged Plans and Sections	Addendum 1	02/20/2025
A-402	Typical Stair & Elevator Details	Addendum 1	02/20/2025
A-403	Interior Elevations	Addendum 1	02/20/2025
A-501	Roof Details	Addendum 1	02/20/2025
A-601	Door Schedule and Finish Legend	Addendum 1	02/20/2025
A-602	Partition Schedule, Legend, and Details	Addendum 1	02/20/2025
A-701	Reflected Ceiling Plan - Level 1	Addendum 1	02/20/2025
A-702	Reflected Ceiling Plan - Level 2	Addendum 1	02/20/2025

DRAWINGS: 18

## STRUCTURAL

"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	Addendum #1	02/20/2025
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	Addendum #1	02/20/2025
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	Addendum #1	02/20/2025
S-701	SECTIONS AND DETAILS	Addendum #1	02/20/2025

DRAWINGS: 14

## MECHANICAL

"N" NEW DRAWING

DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
M-111	HVAC Floor Plan - Level 1	Addendum 1	02/20/2025
M-121	HVAC Floor Plan - Level 2	Addendum 1	02/20/2025
MP-001	Mechanical Symbols List, Index and Notes	Addendum 1	02/20/2025
MP-002	Mechanical Specifications	Addendum 1	02/20/2025
MP-131	Mechanical Roof Plan	Addendum 1	02/20/2025
MP-401	Mechanical Schedules	Addendum 1	02/20/2025
MP-402	Mechanical Schedules	Addendum 1	02/20/2025
MP-501	Mechanical Details	Addendum 1	02/20/2025
MP-502	Mechanical Details	Addendum 1	02/20/2025
MP-601	Temperature Controls	Addendum 1	02/20/2025

DRAWINGS: 10

## PLUMBING

"N" NEW DRAWING

DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
P-101	Underground Plumbing Plan	Addendum 1	02/20/2025
P-111	Plumbing Floor Plan - Level 1	Addendum 1	02/20/2025
P-121	Plumbing Floor Plan - Level 2	Addendum 1	02/20/2025

DRAWINGS: 3

## ELECTRICAL

"N" NEW DRAWING

DELETED DRAWINGS: E-031

DWG #	DRAWING NAME	ISSUED FOR	DATE
E-000	ELECTRICAL LEGEND, SHEET INDEX, AND GENERAL NOTES	Addendum 1	02/20/2025
E-010	ELECTRICAL ONE-LINE DIAGRAM	Addendum 1	02/20/2025
E-020	WIRE AND LIGHTING FIXTURE SCHEDULES AND CONTROL MATRIX	Addendum 1	02/20/2025
E-030	ELECTRICAL PANEL SCHEDULES	Addendum 1	02/20/2025
E-100	SITE PLAN - ELECTRICAL	Addendum 1	02/20/2025
E-210	FLOOR PLAN - LEVEL 1 - LIGHTING	Addendum 1	02/20/2025
E-220	FLOOR PLAN - LEVEL 2 - LIGHTING	Addendum 1	02/20/2025
E-310	FLOOR PLAN - LEVEL 1 - POWER	Addendum 1	02/20/2025
E-320	FLOOR PLAN - LEVEL 2 - POWER	Addendum 1	02/20/2025
E-330	ROOF PLAN - POWER	Addendum 1	02/20/2025
E-400	ENLARGED KITCHEN PLAN - POWER	Addendum 1	02/20/2025
E-500	ELECTRICAL DETAILS	Addendum 1	02/20/2025
N E-600	ELECTRICAL SPECIFICATIONS	Addendum 1	02/20/2025

DRAWINGS: 13

## FIRE PROTECTION

"N" NEW DRAWING

DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
FP-111	Fire Protection Plan - Level 1	Addendum 1	02/20/2025
FP-121	Fire Protection Plan - Level 2	Addendum 1	02/20/2025

DRAWINGS: 2

## FOOD SERVICE AND EQUIPMENT

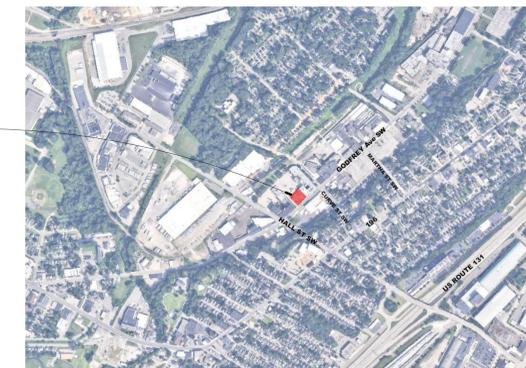
PROVIDED FOR REFERENCE ONLY

DELETED DRAWINGS: NONE

DWG #	DRAWING NAME	ISSUED FOR	DATE
FS - 1	Floor Plan	Addendum 1	02/20/2025
FS - 2	Detail Plan	Addendum 1	02/20/2025
N FS - 3	Electrical Plan	Addendum 1	02/20/2025
N FS - 4	Plumbing Plan	Addendum 1	02/20/2025

DRAWINGS: 4

PROJECT SITE



LOCATION MAP NOT TO SCALE

# ROSSETTI

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SHEET TITLE  
Cover Sheet

PROJECT #  
2024-010.00

SHEET #  
**G-000**

30x42

**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	Bldg Set	02/07/2025
2	Addendum 1	02/20/2025

**KEY PLAN**

**SHEET TITLE**  
General Information Sheet

**PROJECT #**  
2024-010.00

**SHEET #**  
**G-001**

A B C D E F G H J K

**ABBREVIATIONS**

& L @	AND ANGLE AT CENTERLINE	E	EAST EACH EXPOSED CONSTRUCTION PAINTED EXPANSION JOINT ELEVATION ELECTRICAL ELEVATOR EMERGENCY ENCL. E.O.S./E.O.S. EDGE OF SLAB E.O.S./E.O.S. EDGE OF DECK ELECTRICAL PANEL EPX EPOXY EQ. EQUAL EQPM EQUIPMENT EWIC ELECTRIC WATER COOLER EX/EXT EXISTING/EXTERIOR	LAB LAVATORY LOCKER LF LIGHT LVT LUXURY VINYL TILE MAX MAXIMUM MECH MECHANICAL MEMB. MEMBRANE MTL METAL MFR MANUFACTURER MHC MACHINERY MIN. MINIMUM MIR MIRROR MSC. MISCELLANEOUS MLAM METAL LAMINATE M.O. MASONRY OPENING MOUNT. MOUNTING MTD. MULLION	S SOUTH SOLID CORE SCD SCHEDULE S.D. SOAP DISPENSER SECT SECTION SH SHELF SHR SHOWER SHT SHEET SIM SIMILAR SFM STATE FIRE MARSHALL SPEC SPECIFICATIONS SQ SQUARE S.S. STAINLESS STEEL S. SK. SERVICE SINK S.S. SOLID SURFACE STANDARD (CAR) ST STONE STA STATION STA STANDARD STL STEEL STOR STORAGE STRU STRUCTURAL SUSP SUSPENDED SYM SYMMETRICAL TRD TREAD T.O.C. TOP OF CURB TEC TRAFFIC ELASTOMERIC COATING TEL TELEPHONE TAG TONGUE AND GROOVE THK THICK T.O.P. TOP OF PARAPET TA TOILET ACCESSORY TL TILE TV TELEVISION T.O.W. TOP OF WALL TOS/ T.O.S. TOP OF STEEL TYP. TYPICAL TZ TERRAZZO FLOORING UPH UPHOLSTERY UNF UNFINISHED UN.O. UNIFORM UR URINAL VCT VINYL COMPOSITION TILE VERT. VERTICAL VAT VINYL ASBESTOS TILE VEST VESTIBULE VINT VINYL FLOORING W WEST W/ WITH WB WALL BASE W.C. WATER CLOSET WC WALLCOVERING WD WOOD W/O WITHOUT WR WATER RESISTANT W.SCT. WAINSCOT WT. WEIGHT	SC SOUTH SOLID CORE SCD SCHEDULE S.D. SOAP DISPENSER SECT SECTION SH SHELF SHR SHOWER SHT SHEET SIM SIMILAR SFM STATE FIRE MARSHALL SPEC SPECIFICATIONS SQ SQUARE S.S. STAINLESS STEEL S. SK. SERVICE SINK S.S. SOLID SURFACE STANDARD (CAR) ST STONE STA STATION STA STANDARD STL STEEL STOR STORAGE STRU STRUCTURAL SUSP SUSPENDED SYM SYMMETRICAL TRD TREAD T.O.C. TOP OF CURB TEC TRAFFIC ELASTOMERIC COATING TEL TELEPHONE TAG TONGUE AND GROOVE THK THICK T.O.P. TOP OF PARAPET TA TOILET ACCESSORY TL TILE TV TELEVISION T.O.W. TOP OF WALL TOS/ T.O.S. TOP OF STEEL TYP. TYPICAL TZ TERRAZZO FLOORING UPH UPHOLSTERY UNF UNFINISHED UN.O. UNIFORM UR URINAL VCT VINYL COMPOSITION TILE VERT. VERTICAL VAT VINYL ASBESTOS TILE VEST VESTIBULE VINT VINYL FLOORING W WEST W/ WITH WB WALL BASE W.C. WATER CLOSET WC WALLCOVERING WD WOOD W/O WITHOUT WR WATER RESISTANT W.SCT. WAINSCOT WT. WEIGHT
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**GENERAL NOTES**

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

REFER TO SPECIFICATION SECTION 078100, AS APPLICABLE, FOR SPRAY-ON FIREPROOFING REQUIREMENTS. ANY MATERIAL SUBSTITUTIONS TO A LISTED U.L. DESIGN NUMBER SHALL BE COORDINATED BY THE RELATED PRIME CONTRACTOR, SUBCONTRACTOR AND/OR MATERIAL SUPPLIER FOR COMPLIANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPROVALS - FOR ANY MATERIAL SUBSTITUTIONS IN THE MECHANICAL AND ELECTRICAL U.L. DESIGN ASSEMBLY - BY THE FIRE MARSHALL AND BUILDING INSPECTOR HAVING JURISDICTION PRIOR TO DECEPTION.

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 TO COORDINATE ALL OTHER RELATED MATERIALS OR ASSEMBLIES AFFECTED BY THE CHANGE.

PROVIDE COMPLETE U.L. APPROVED THROUGH-PENETRATION FIRESTOP SYSTEMS AT ALL RATED WALL PENETRATIONS. REFERENCE SPECIFICATION SECTION 078413.

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

PATCH AND REPAIR CONCRETE FLOORS TO ACHIEVE A CONTINUOUS, SMOOTH AND FLUSH FLOOR SURFACE.

**DIMENSIONING CRITERIA**

DIMENSIONS FOR LOCATING PARTITIONS AND OPENINGS ARE GENERALLY ESTABLISHED BY CRITERIA. ONLY EXCEPTIONS TO THESE CRITERIA WILL BE DIMENSIONED. TYPICAL DIMENSIONING CRITERIA ARE OUTLINED BELOW.

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. THE OPENING WIDTH WILL BE ESTABLISHED BY EITHER CRITERIA OR SCHEDULES.

(B) WHEN NEITHER THE JAMB OF A DOOR OR OPENING OCCURS AT A COLUMN OR GRID LINE, OR ADJACENT TO A PARTITION AT A RIGHT ANGLE, ONE JAMB WILL BE LOCATED DIMENSIONALLY.

(C) WHEN ONE JAMB IS LOCATED BY A PARTITION AT A RIGHT ANGLE, THE FOLLOWING DIAGRAMS APPLY:

**CMU WALLS**  
TO ADJACENT WALL OR NEAREST CMU JOINT

**WALL ADJ. TO COLUMNS**  
NOT DIMENSIONED ON FLOOR PLANS

**METAL STUD WALLS**  
NOT DIMENSIONED ON FLOOR PLANS

DIMENSIONS ON PLANS ARE SHOWN TO THE FACE OF MASONRY UNIT, FACE OF CONCRETE, AND THE FACE OF THE GYPSUM WALLBOARD OF METAL STUD PARTITIONS.

**REFLECTED CEILING PLAN**

ITEMS SHOWN ON THE ARCHITECTURAL DRAWINGS ARE TO BE LOCATED PER THE ARCHITECTURAL DRAWINGS. NOT ALL ITEMS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS FOR LOCATION, MOUNTING CONDITIONS, QUANTITIES AND TYPES OF ALL LIGHTS, GRILLES, DIFFUSERS, EXIT SIGNS, AND ALL MISCELLANEOUS ITEMS.

**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):

A. GRAB BARS	G. DOOR BUMPERS
B. MIRRORS	H. SHELING
C. TOILET ACCESSORIES	I. CLOSET POLES
D. STAIR RAILS	J. COAT HOOKS
E. TOILET PARTITIONS	K. MILLWORK COUNTERS
F. UNDER PRE-FAB. CURB FOR ALL ROOF-MOUNTED EQUIPMENT	L. MILLWORK CABINETS
	M. TV BLOCKING

**SIGNAGE BACKING PANELS** ALL AREAS INDICATED ON THE DRAWINGS - PROVIDE 1/8 GA (MINIMUM) STEEL BACKING PANELS AT SIGNAGE LOCATIONS (WHERE ATTACHMENT TO GYPSUM BOARD IS REQUIRED). SPAN PANELS THREE METAL STUDS (MINIMUM) HORIZONTALLY. REFER TO SIGNAGE ISSUE SKETCHES FOR SIGNAGE LOCATIONS.

**MECHANICAL AND ELECTRICAL OPENINGS-**  
SIZE AND LOCATION OF ALL FLOOR OPENINGS, ROOF OPENINGS, AND WALL OPENINGS REQUIRED TO ACCOMMODATE DUCT PENETRATIONS, EQUIPMENT, ETC. SHALL BE COORDINATED AND VERIFIED WITH MECHANICAL AND ELECTRICAL TRADES.

**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.

**MATERIAL LEGEND**

	EARTH
	ENGINEERED FILL
	POROUS FILL
	SAND
	GRAVEL FILL
	CAST IN PLACE CONCRETE
	PRECAST CONCRETE
	CONCRETE MASONRY
	GROUT
	MORTAR
	ALUMINUM
	STEEL
	STAINLESS STEEL
	STRUCTURAL STEEL
	MISCELLANEOUS STEEL
	HARDWOOD
	WOOD, ENDGRAIN
	PLYWOOD
	CONTINUOUS BLOCKING
	SHIM
	ENGINEERED WOOD
	RIGID INSULATION
	BATT INSULATION
	SEALANT WITH BACKER ROD
	SPRAY ON FIREPROOFING
	GYPSUM BOARD
	CEMENT BOARD

**KEYNOTE SYSTEM**

051200-B KEYED NOTE TAG

- CERTAIN MATERIALS, COMPONENTS OR ASSEMBLIES ARE IDENTIFIED AND/OR DESCRIBED ON SOME DRAWINGS USING AN ALPHANUMERIC REFERENCE IDENTIFICATION OR KEYNOTE SYSTEM. THIS KEYNOTE SYSTEM CONSISTS OF A 6-DIGIT NUMBER FOLLOWED BY A PERIOD AND A LETTER SUFFIX. WHERE KEYNOTES ARE USED ON A DRAWING, REFER TO THE LEGEND ON THAT DRAWING FOR IDENTIFICATION WHICH RELATES TO EACH KEYNOTE ITEM. (SHOULD THE LEGEND ON THE DRAWING NOT CONTAIN THAT ITEM, REFER TO LEGENDS ON OTHER DRAWINGS).
- THE KEYNOTE SYSTEM IS USED FOR CONVENIENCE AND GENERAL INFORMATION ONLY, AS AN EXPRESSION OF GENERAL INTENT. THE ARCHITECT SPECIFICALLY DOES NOT WARRANT ALL MATERIALS, COMPONENTS OR ASSEMBLIES ARE SIMILARLY IDENTIFIED, OR EVEN THE SAME MATERIAL COMPONENT OR ASSEMBLY IN DIFFERENT DETAILS OR SECTIONS ARE SIMILARLY IDENTIFIED.
- SOME MATERIALS, COMPONENTS OR ASSEMBLIES HAVE ADDITIONAL INFORMATION ADJACENT TO THE KEYNOTE. SHOULD SIMILAR CONDITIONS HAVE DIFFERENT ADDITIONAL INFORMATION, OR ONE NOT HAVE ANY, THE HIGHER QUALITY SHALL TAKE PRECEDENCE UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
- UTILIZATION OF THE KEYNOTE SYSTEM AND ANY RELATION IT MAY HAVE TO SIMILARLY IDENTIFIED SPECIFICATIONS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.
- THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR, WHETHER THE KEYNOTE SYSTEM IS USED OR NOT, AND WHETHER OR NOT THE KEYNOTE IS COMPLETE, CONSISTENT, OR THE MOST APPROPRIATE SPECIFICATION SECTION.

**MATERIAL TAG SYSTEM**

PNT-07 MATERIAL TAG

- CERTAIN MATERIALS ARE IDENTIFIED AND/OR DESCRIBED ON SOME DRAWINGS USING A KEY. WHERE MATERIAL TAGS ARE USED ON A DRAWING, REFER TO THE LEGENDKEY ON A-611 FOR IDENTIFICATION WHICH RELATES TO EACH MATERIAL ITEM. (SHOULD THE LEGEND ON THE DRAWING NOT CONTAIN THAT ITEM, REFER TO THE ROOM FINISH SCHEDULE ON A-611).
- THE MATERIAL TAG SYSTEM IS USED FOR CONVENIENCE AND GENERAL INFORMATION ONLY, AS AN EXPRESSION OF GENERAL INTENT. THE ROOM FINISH SCHEDULE SHALL TAKE PRECEDENCE.

**VIEW LEGEND**

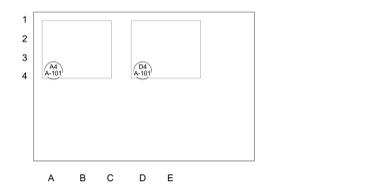
	DETAIL NUMBER
	DRAWING NUMBER
<b>ELEVATIONS</b>	
	EXTERIOR ELEVATION [COARSE]
	PARTIAL ELEVATION [MEDIUM]
	INTERIOR ELEVATION [FINE]
<b>SECTIONS</b>	
	BUILDING SECTION [COARSE]
	PARTIAL SECTION [MEDIUM]
	WALL PROFILE OR DETAIL [FINE]
	DETAIL NUMBER

**A8 Drawing Title**  
A-101 SCALE: 1/8" = 1'-0" REF: G-100

**SHEET WHERE DRAWN**  
**DRAWING WHERE REFERENCED**

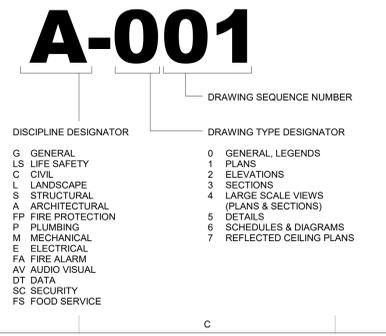
**DETAIL SHEET - NUMBER LOCATIONS**

Each drawing is divided horizontally and vertically into cells. Cells are lettered horizontally and numbered vertically. Each detail is numbered based on the lower left hand corner of the cell it occupies as shown in the example above.



**SHEET NUMBERS**

DRAWINGS ARE NUMBERED ACCORDING TO THE FOLLOWING CONVENTIONS:



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
2	Addendum 1	02/20/2025

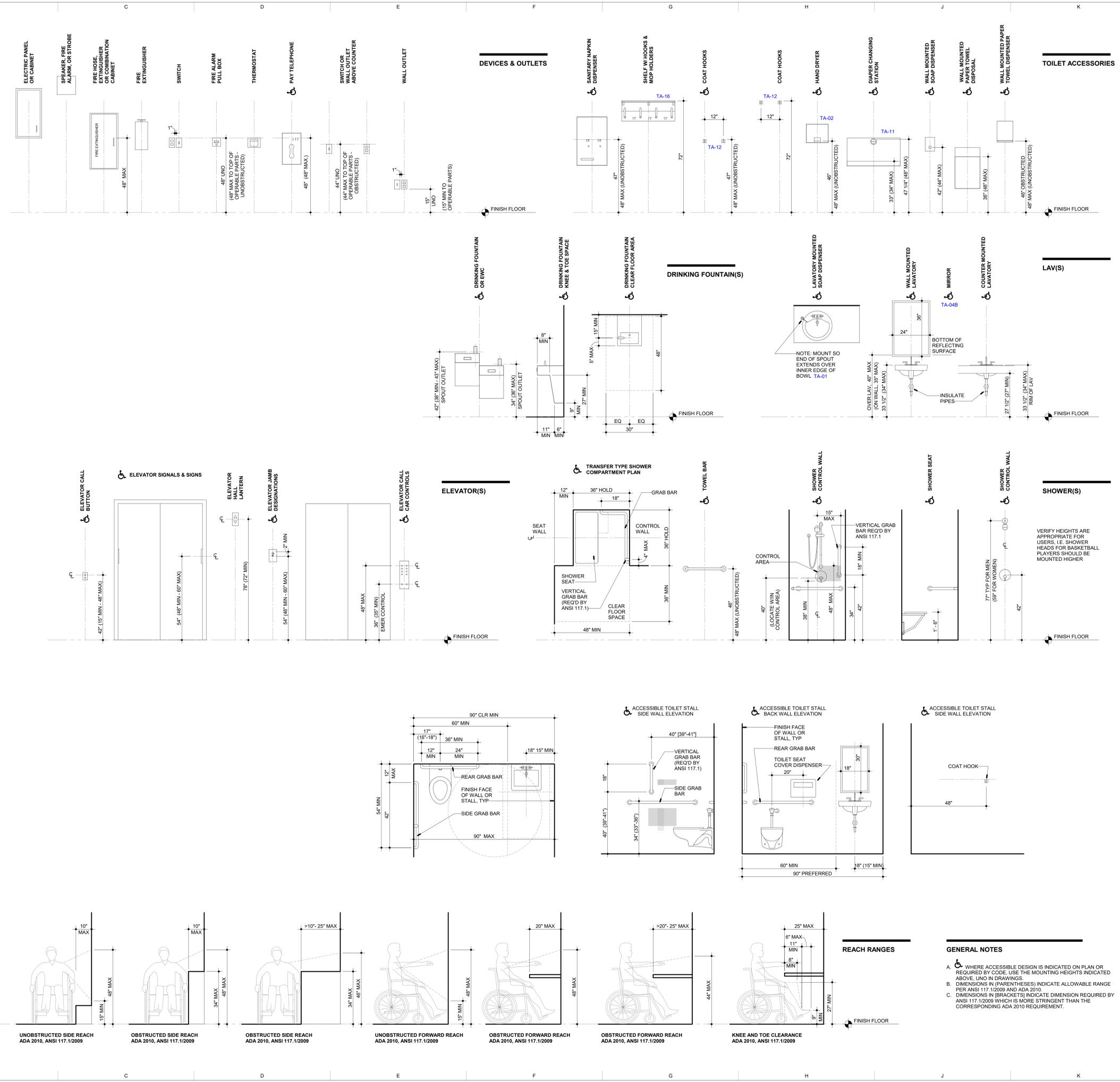
KEY PLAN

SHEET TITLE  
 Mounting Heights

PROJECT #  
 2024-010.00

SHEET #

### G-002



Autodesk Docs/\\West Mich Hispanic Chamber of Commerce\WMCoc-Arch\T 2/20/2025 5:10:36 PM

#	DESCRIPTION	DATE
1	Bid Set	02/07/2025
2	Addendum 1	02/20/2025

### 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
BALCONY		605 SF		0
101 VESTIBULE		68 SF		0
102 LOBBY/CAFE		778 SF	100	8
103 KITCHEN		401 SF	200	3
104 DRY STORAGE		66 SF		0
106 MECH ROOM		66 SF	300	1
107 EVENT ROOM		1,966 SF	15	131
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		107 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		139 SF		0
126 HALLWAY		122 SF		0
127 RECEPTION		83 SF		0
201 HALLWAY		99 SF		0
202 HALLWAY		1,107 SF		0
203 PHONE BOOTH		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		500 SF		0
215 TRAINING ROOM		475 SF		0
216 KITCHEN		74 SF	100	1
217 TOILET		69 SF		0
218 WELLNESS ROOM		80 SF	100	1
219 JANITOR		22 SF		0
220 PHONE BOOTH		48 SF		0
221 TOILET		48 SF		0
222 ELEC/T ROOM		83 SF	300	1
EL-A ELEVATOR		58 SF		0
ST-A STAIR A		30 SF		0
ST-B STAIR B		<varies>		0
<b>TOTAL</b>				<b>213</b>

### 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 5 - 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 6 - 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: Non-occupiable 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 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	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 FPPC SECTION 8.5
- 1 HOUR FIRE BARRIER
- 2 HOUR FIRE WALL
- DOOR  
36" WIDE MINIMUM 34" CLEAR MINIMUM U.O.A.
- OCCUPANCY LOAD
- TYPE OF EGRESS COMPONENT
- EGRESS CAPACITY
- ACTUAL EGRESS WIDTH
- EGRESS CAPACITY FACTOR
- CALCULATED EGRESS WIDTH
- ROOM NAME AND NUMBER
- FIXED/MAX NUMBER OF OCCUPANTS
- ROOM NAME AND NUMBER
- 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.
- FIRE EXTINGUISHER
- GREASE FIRE EXTINGUISHER
- FIRE EXTINGUISHER CABINET
- AREA OF SMOKE PROTECTED SPACES PER 1024.6.3 (OUTDOOR)
- ROOMS TO BE SPRINKLERED SPACES PER 903.2.1.5

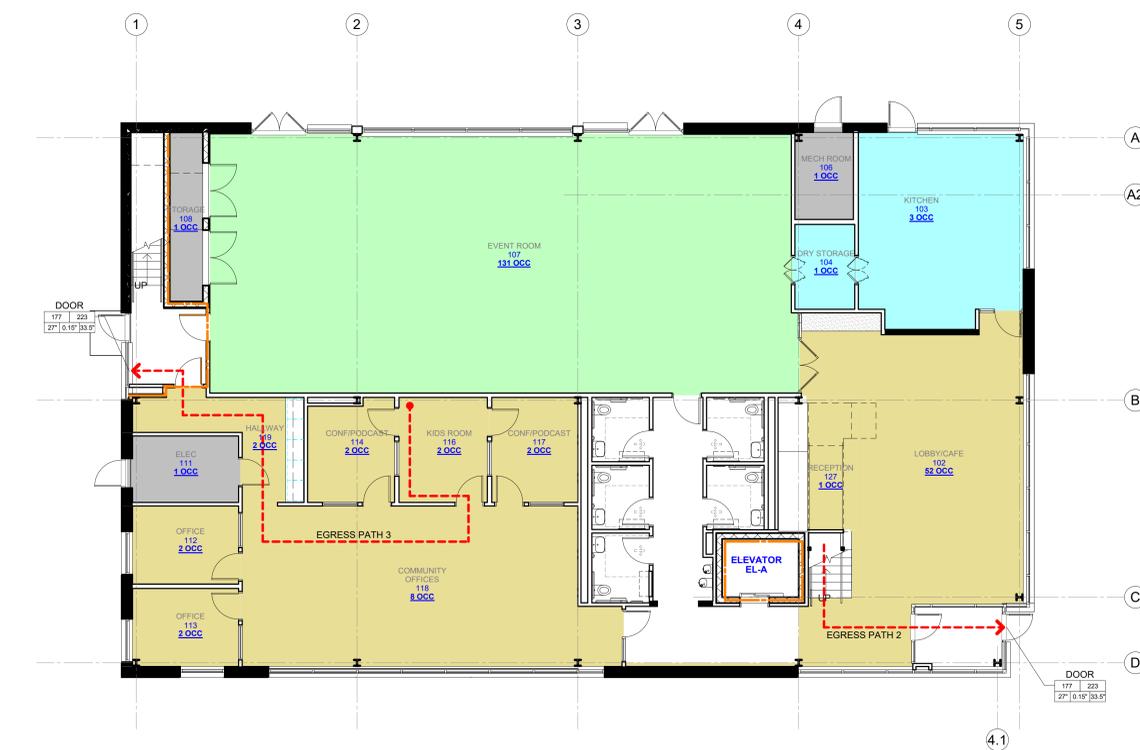
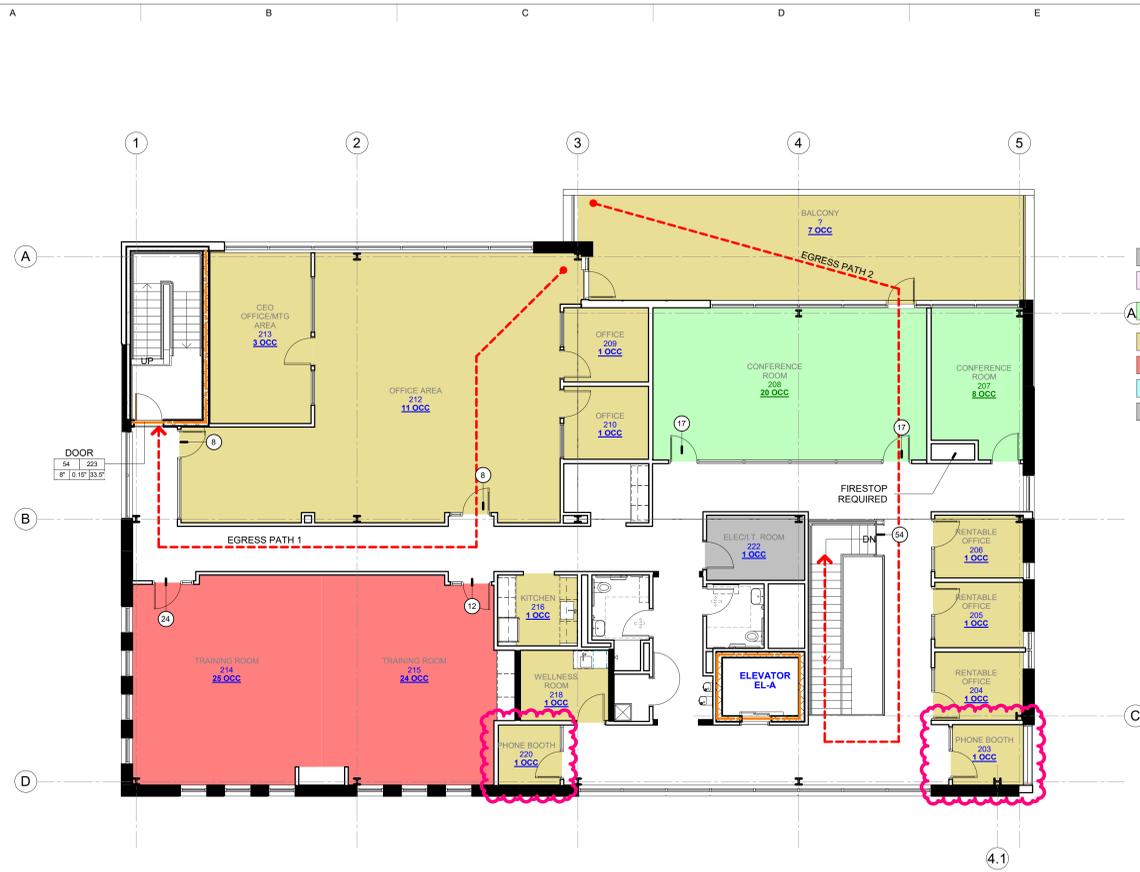




Table with columns A-K containing door hardware specifications, including door types, hardware models, and notes. The table is organized into sections for different door types and hardware sets (e.g., Set 4.0, Set 9.0, Set 11.0, Set 13.0, Set 18.0, Set 21.0, Set 24.0, Set 25.0, Set 26.0, Set 27.0, Set 3.0, Set 5.0, Set 6.0, Set 7.0, Set 8.0, Set 10.0, Set 12.0, Set 14.0, Set 15.0, Set 16.0, Set 17.0, Set 19.0, Set 20.0, Set 22.0, Set 23.0).

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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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1	Bid Set	02/07/2025
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## KEY PLAN

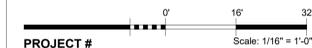
## SHEET TITLE

Products and Specs

PROJECT #  
2024-010.00

## SHEET #

# G-006



30x42

A	B	C	D	E	F	G	H	J	K
<b>088000 – GLAZING</b>									
<b>Submittals</b> Submit product data, samples, shop drawings, warranty, maintenance data for each product.									
<b>Products</b> 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: 0.35 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.									
<b>Installation</b> Comply with FGMA Glazing Manual and manufacturer's recommendations.									
<b>092900 - GYPSUM BOARD ASSEMBLIES</b>									
<b>General</b> This section includes gypsum board and non-structural metal framing									
<b>Products</b> 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.									
All accessories to comply with Manufacturer's recommendations.									
<b>Execution</b> 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.									
<b>093013 TILING SPECIFICATION</b>									
<b>Submittals</b> Submit product data, shop drawings, and samples of tiles and all accessories.									
<b>Products</b> 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.									
<b>FLOOR TILE INSTALLATION SCHEDULE</b>									
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.									
<b>WALL TILE INSTALLATION SCHEDULE</b>									
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.									
<b>099123 PAINTING SPECIFICATION</b>									
<b>Submittals</b> Product data including confirmation of MPI numbers and samples.									
<b>PRODUCTS</b>									
<b>PRIMERS/SEALERS</b> Interior Latex Primer/Sealer: MPI #50. Basis-of-Design Product: SW; ProMar 200 Zero VOC Interior Latex Primer, B28 Series.									
<b>METAL PRIMERS</b> 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; Kem Bond HS Universal Alkyd Primer, B50 Series.									
<b>WOOD PRIMERS</b> Interior Lacquer Sanding Sealer: MPI #24.									
<b>WATER-BASED PAINTS</b> 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.									
<b>PAINT SCHEDULE</b>									
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.									
<b>102800 - TOILET AND BATH ACCESSORIES</b>									
<b>General</b> This Section includes the following:  Public-use washroom accessories. Under-lavatory guards.									
<b>Submittals</b> Product Data, Setting Drawings for all trades for cutouts, Quality Assurance and Warranty covering Fifteen (15) years for mirrors from date of Substantial Completion.									
<b>Products</b> Toilet Accessories – Refer to G-002 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 CS00R by Broco 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.  <b>Execution</b> 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.  <b>Cleaning And Final Adjustments</b> 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									
<b>104413 FIRE PROTECTION SPECIALITIES SPECIFICATION</b>									
<b>General</b> This section includes portable fire extinguishers and fire extinguisher cabinets.									
<b>Submittals</b> Submit product data, shop drawings, and maintenance Data.									
<b>Products</b> 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.  <b>Installation</b> 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.									
<b>108200 - EQUIPMENT METAL SCREEN WALL</b>									
<b>General</b> This section includes fixed, extruded-aluminum louvered screen for equipment.									
<b>Submittals</b> Submit product data, finish samples, shop drawings, and quality/performance reports.									
<b>Products</b> Horizontal Blade Louvered Equipment Screen:  Architectural Louvers Co. (Harris, 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.									
<b>281500 INTEGRATED ACCESS CONTROL HARDWARE DEVICES</b>									
<b>General</b> This Section includes access control hardware for Swinging doors.  This section includes, but is not necessarily limited to, the following for the integrated access control security and site management system: • Electrified and Ingrated Access Control Key Door Hardware									
<b>Submittals</b> Submit product data and System Operational Descriptions, Operating and Maintenance manuals, Warranty information.  Standard warranty period: • One year from date of substantial completion, unless otherwise indicated. Special Warranty period (Electrified Access Control Door Hardware): • Two years for Electrified, Wiegand Output, and IP-Enabled Access Control Door Hardware.  Submit shop drawings showing details of electrified integrated locking hardware and access control firmware indicating the following:  1. Wiring diagrams • Elevation diagram of each unique access-controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings. • Complete (risers, point-to-point) access control system block wiring diagram.  2. Electrical Coordination: Coordinate with related Electrical Sections the voltages and wiring details required at electrically controlled and operated hardware openings.  Submit Installer Qualifications, including proof of certification.									
<b>Coordination</b> A. Coordinate quantity and arrangement of assemblies with ceiling space configuration and with components occupying ceiling space, including structural members, pipes, air-distribution components, raceways, cable trays, recessed lighting fixtures, and other items.  B. Access Control System Electrical Coordination: Coordinate the layout and installation of scheduled electrified door hardware, and related access control equipment, with required connections to source power function boxes, power supplies, detection and monitoring hardware and fire alarm system. • Door Hardware Interface: The card key access control system to interface and be connected to electronic door control hardware (electromechanical locks, electric strikes, magnetic locks, door position switches, other monitoring contacts, and related auxiliary control devices) as described under Division 8 "Door Hardware". Coordinate the installation and configuration of specified door hardware being monitored or controlled with the controls, software and access control hardware specified in this Section.  C. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing electrified door hardware and access control system components. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing access control system hardware to comply with indicated requirements.  D. Door and Frame Preparation: Related Division 08 Sections (Steel, Aluminum and Wood) doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.									
<b>Products</b> A. Integrated Wired Output Multi-Class Cylindrical Locks: Wiegand or Open Supervised Device Protocol (OSDP) output ANSI A156.2, Grade 1, Cylindrical Lockset with Integrated Card Reader with or without keypad option, and request-to-exit signaling in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle trim with 1/2" deadlocking stainless steel latch. Lock is U.L. listed and labeled for use on up to 3 hour fire rated openings.  Basis of Design: a. Corbin Russwin (RU) - CLX3300 SN Series. b. Sargent Manufacturing (SA) - SN200/SN210 10X Line. c. approved equal  B. A. Integrated Wired Output Multi-Class Exit Hardware: Wiegand output ANSI 156.3 Grade 1 rim, mortise, and vertical rod exit device hardware with integrated card reader with or without keypad option, latchbolt and touchbar monitoring, and request-to-exit signaling in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L. listed and labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.  Basis of Design: a. Corbin Russwin (RU) - PED5000 SN Series. b. Sargent Manufacturing (SA) - SN200/SN210 PE80 Series. c. approved equal									
<b>Execution</b> A. Examine scheduled openings, with installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance of the installed access control system.  B. Examine roughing-in for electrical source power to verify actual locations of wiring connections before electrified and integrated access control door hardware installation.  C. Examine roughing-in for LAN and control cable conduit systems to PCs, controllers, card readers, and other cable-connected devices to verify actual locations of conduit and back boxes before device installation.  D. Notify architect of any discrepancies or conflicts between the specifications, drawings and scheduled access controlled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.  Doors and frames at scheduled access controlled openings to be properly prepared to receive specified electrified and access control hardware and connections without additional in-field modifications.									



PROJECT  
**West Michigan  
Hispanic  
Chamber of  
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1111 Godfrey Ave. SW  
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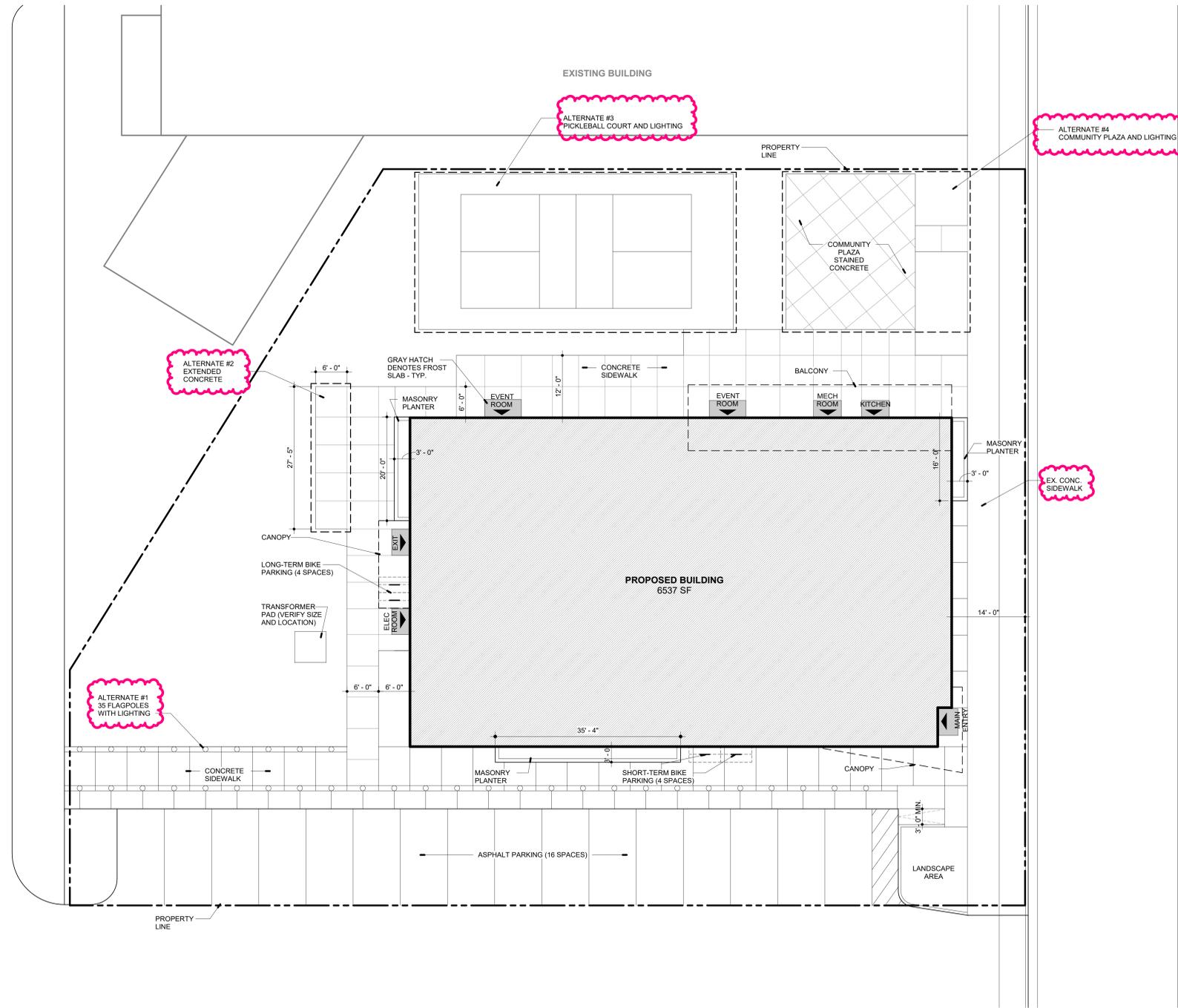
#	DESCRIPTION	DATE
1	Bid Set	02/07/2025
2	Addendum 1	02/20/2025

KEY PLAN

SHEET TITLE  
Architectural Site Plan

PROJECT #  
2024-010.00

SHEET #  
**A-001**



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

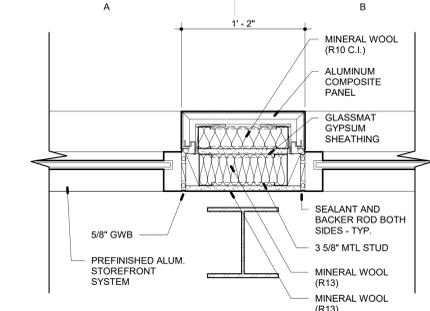


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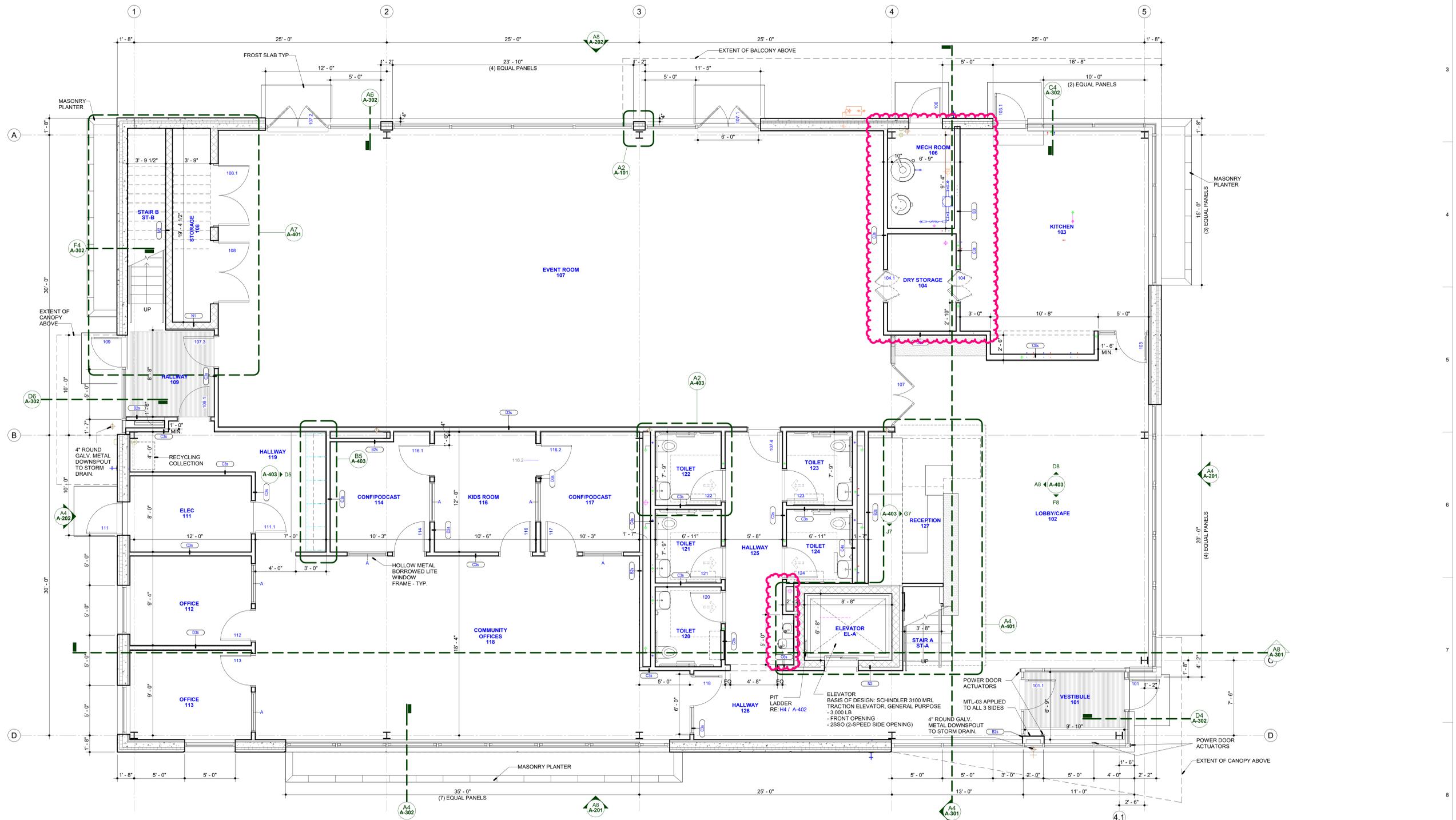
#	DESCRIPTION	DATE
1	Bldg Set	02/07/2025
2	Addendum 1	02/20/2025

**FLOOR PLAN GENERAL NOTES**

- FLOOR PLAN NOTES APPLY TO ALL FLOOR PLAN SHEETS.
- 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.
- 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.
- 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.
- SEAL PENETRATIONS THROUGH FIRE-RESISTANCE-RATED CONSTRUCTIONS WITH PENETRATION FIRESTOPPING MATERIAL AS REQUIRED TO ACHIEVE RESPECTIVE FIRE-RESISTIVE RATING AND SMOKE STOPPAGE.
- 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.
- GYPSONUM BOARD AND PLASTER SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE INDICATED ON DRAWINGS AND/OR AS DESCRIBED IN THE SPECIFICATIONS.
- 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.
- COORDINATE MECHANICAL CHASE SIZES WITH MECHANICAL CONTRACTOR.
- COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS' SIZE AND LOCATION OF EQUIPMENT PADS INDICATED ON FLOOR PLANS.



**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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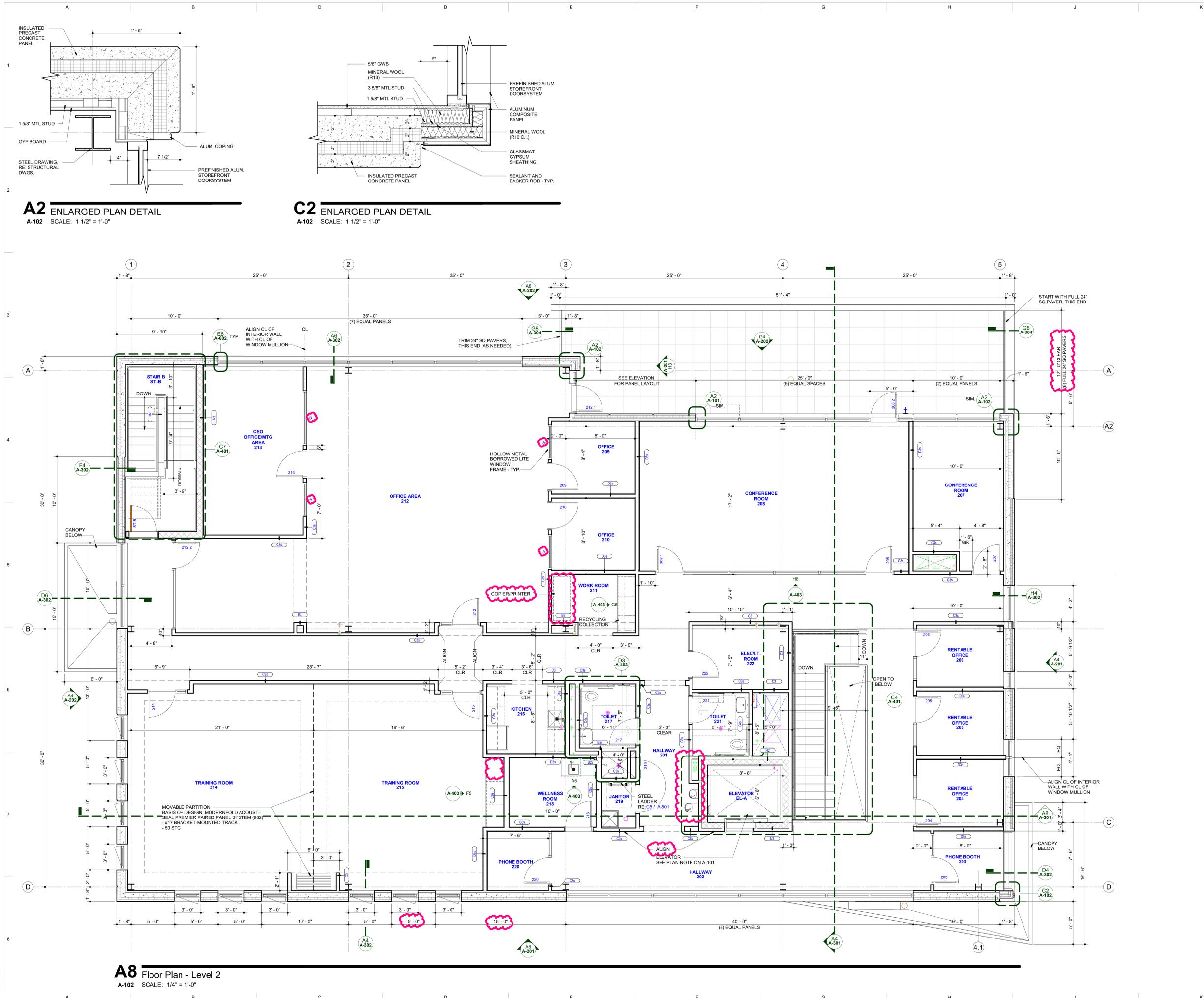
#	DESCRIPTION	DATE
1	Bid Set	02/07/2025
2	Addendum 1	02/20/2025

KEY PLAN

SHEET TITLE  
Floor Plan - Level 2

PROJECT #  
2024-010.00

SHEET #  
**A-102**



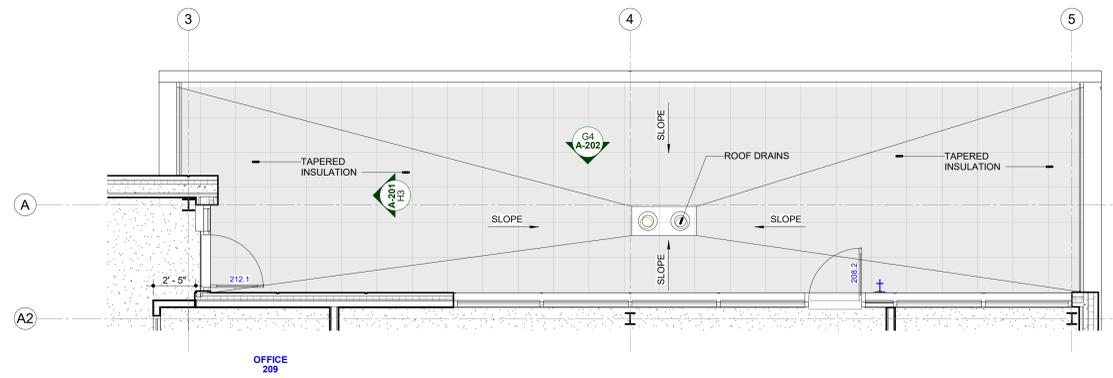
**A2** ENLARGED PLAN DETAIL  
A-102 SCALE: 1 1/2" = 1'-0"

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

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

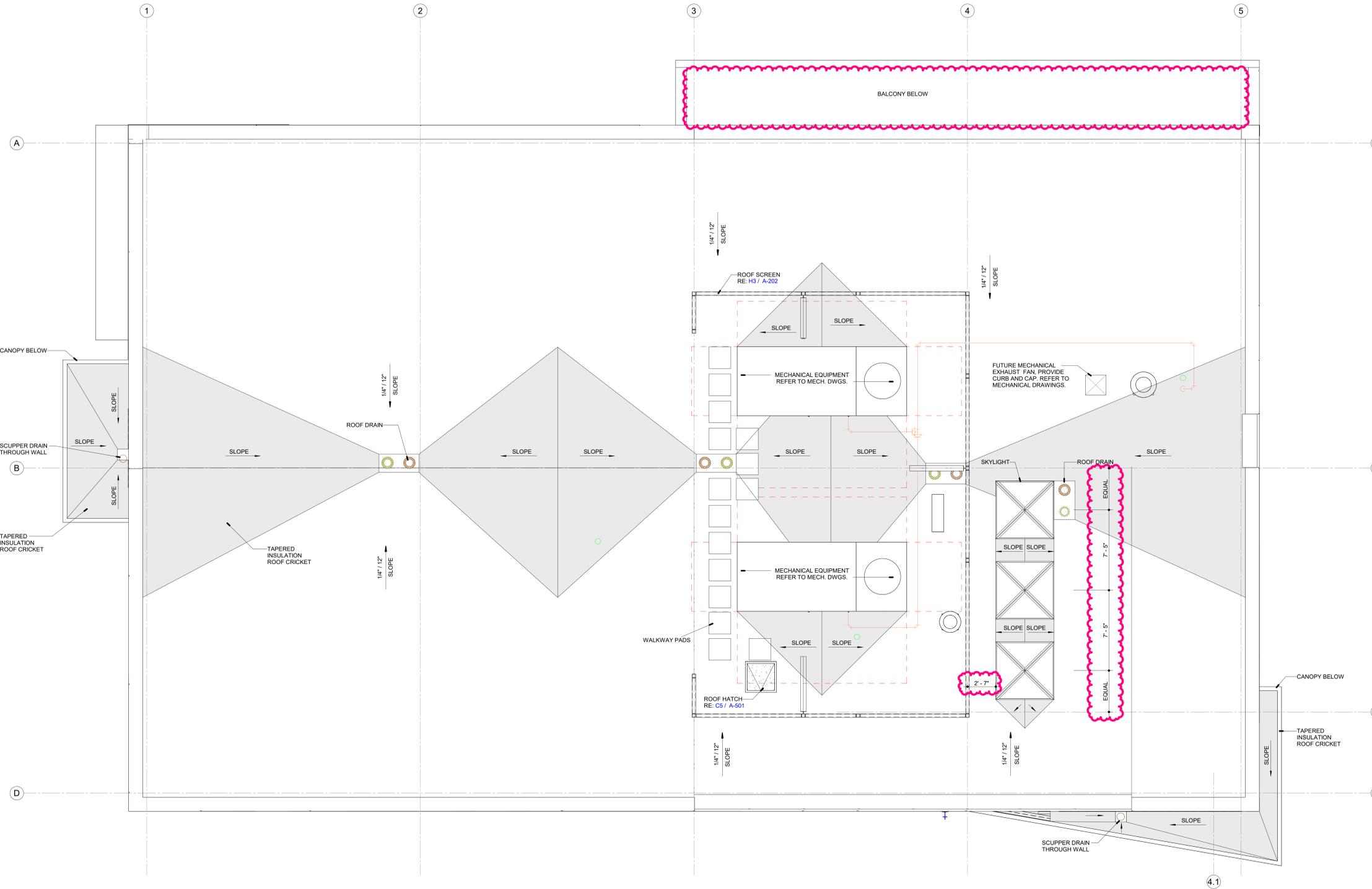
### ROOF PLAN GENERAL NOTES

- 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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1	Bid Set	02/07/2025
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KEY PLAN

SHEET TITLE  
 Roof Plan

PROJECT #  
 2024-010.00

SHEET #

**A-103**



30x42

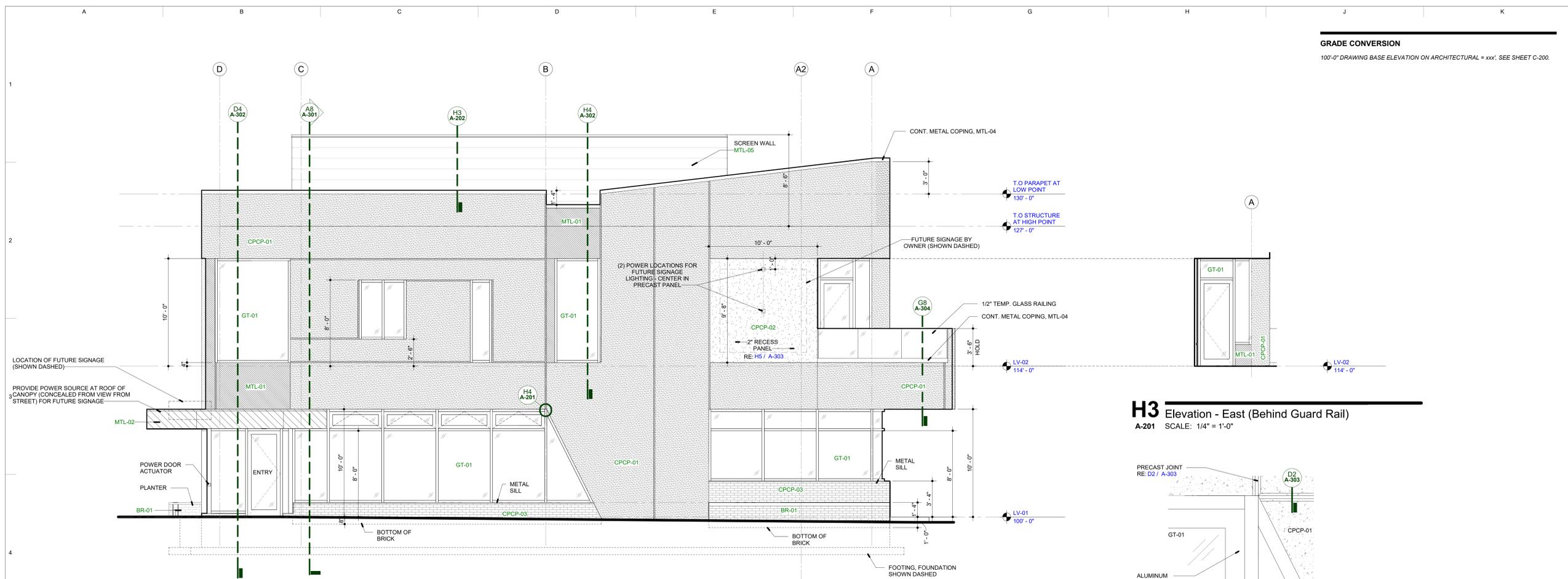
### A8 Roof Plan

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

#	DESCRIPTION	DATE
1	Bldg Set	02/07/2025
2	Addendum 1	02/20/2025

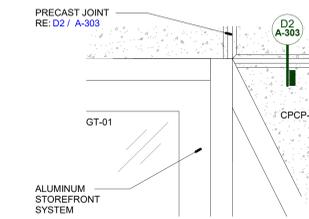
GRADE CONVERSION

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

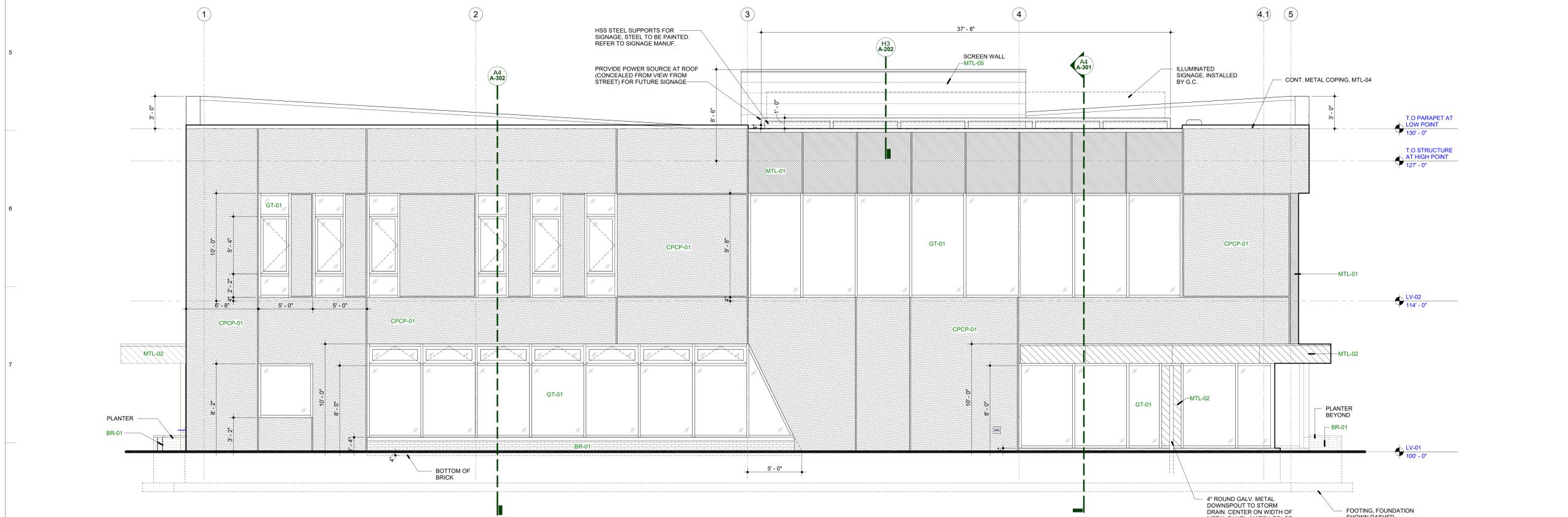


**A4** Elevation - East  
A-201 SCALE: 1/4" = 1'-0"

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



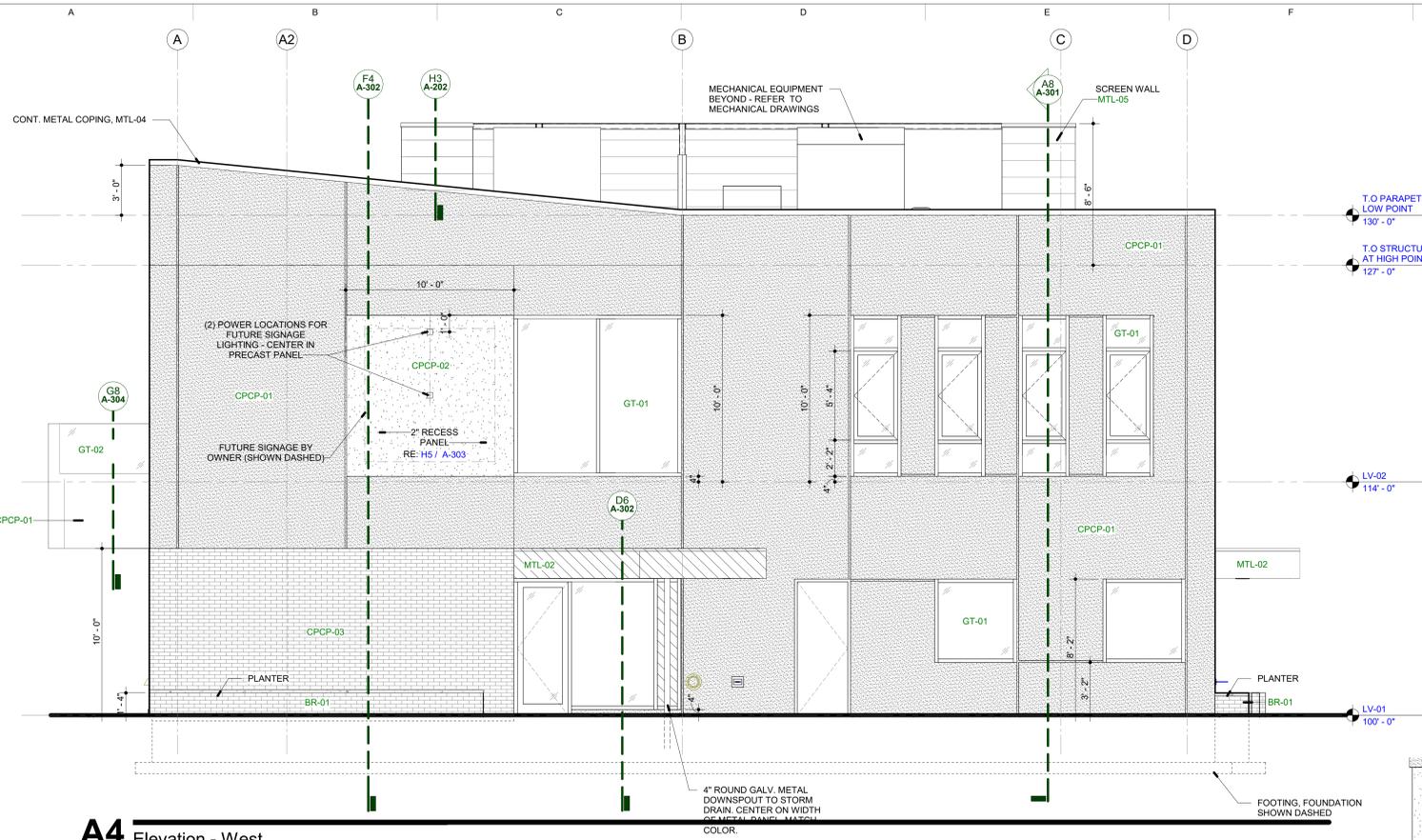
**H4** Enlarged Elevation  
A-201 SCALE: 1 1/2" = 1'-0"



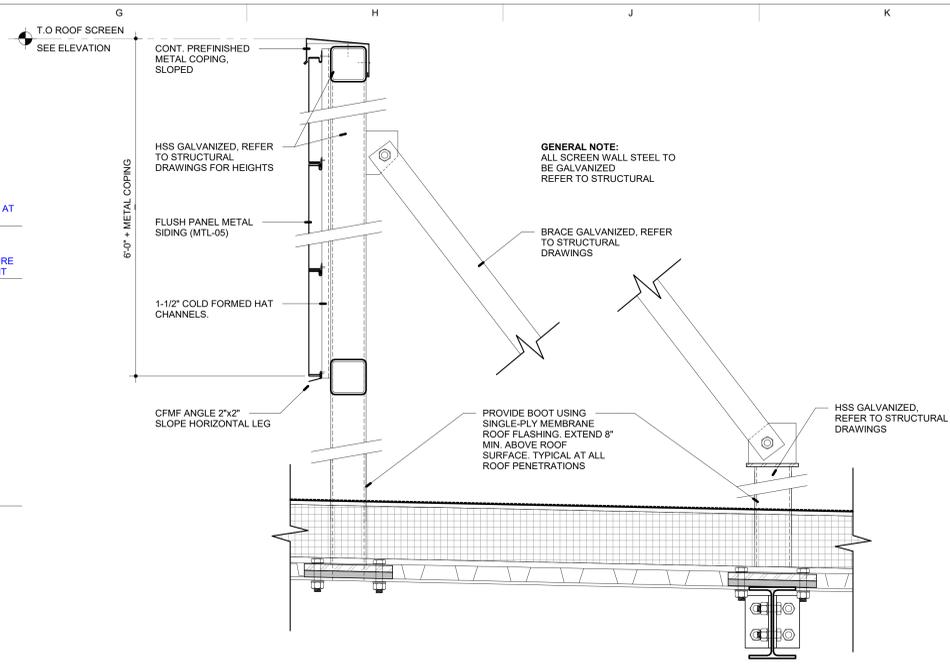
**A8** Elevation - South  
A-201 SCALE: 1/4" = 1'-0"

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2/20/2025 5:10:01 PM

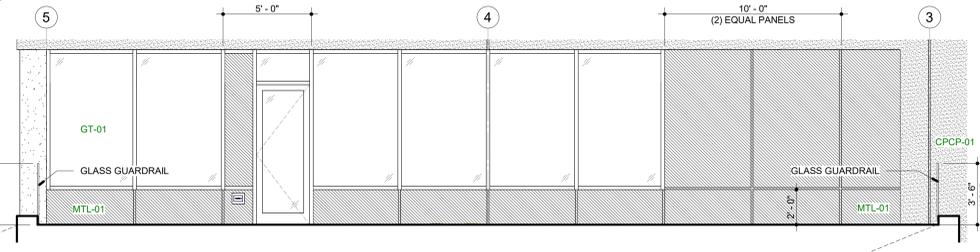
#	DESCRIPTION	DATE
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2	Addendum 1	02/20/2025



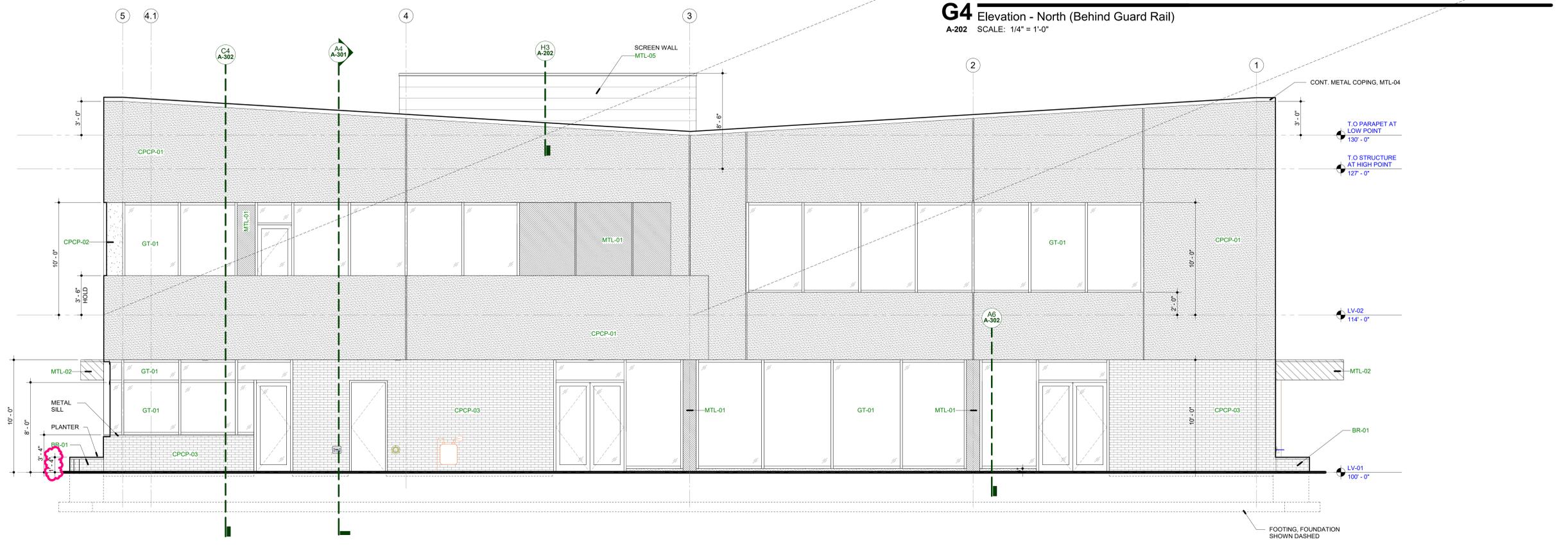
**A4** Elevation - West  
A-202 SCALE: 1/4" = 1'-0"



**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"

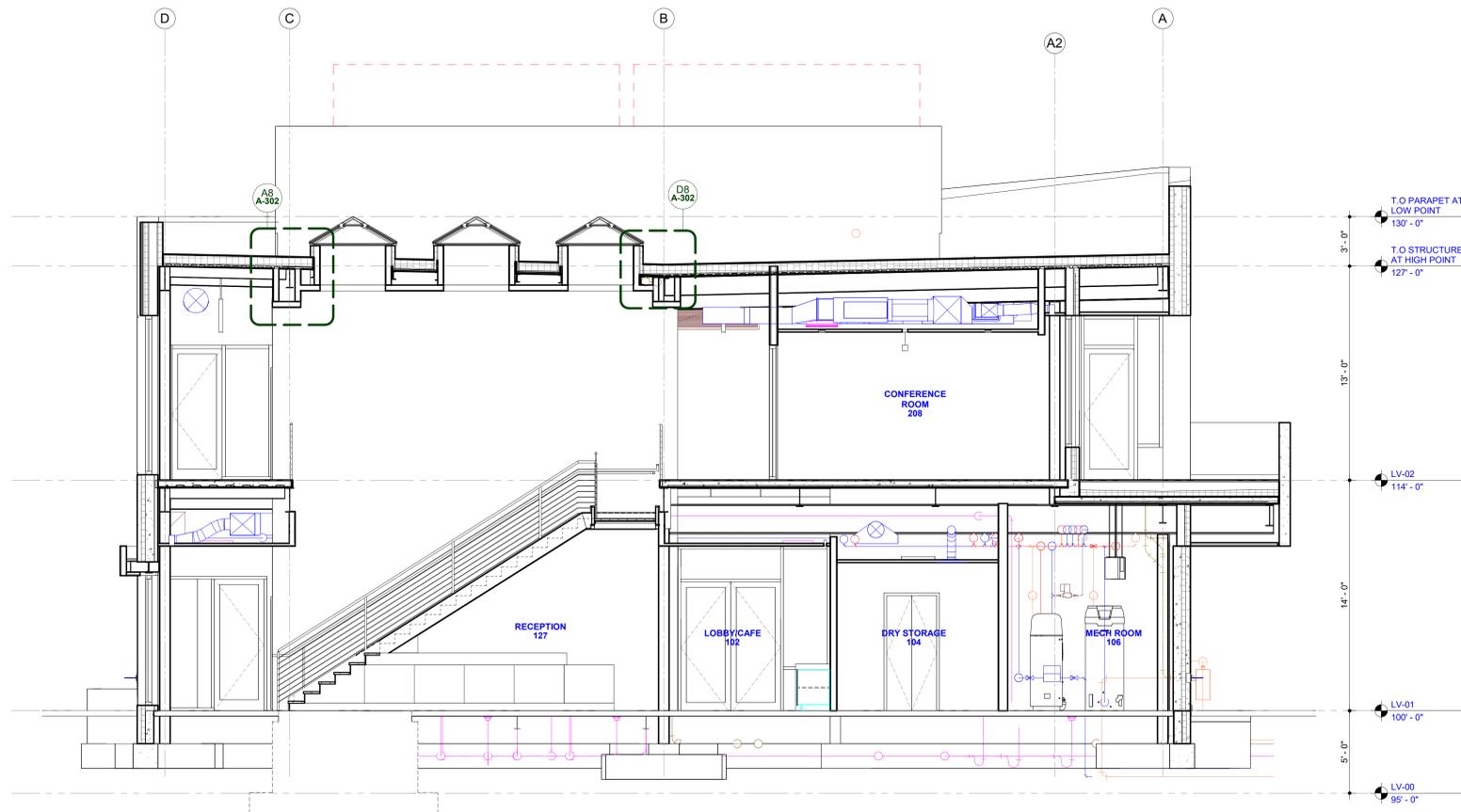
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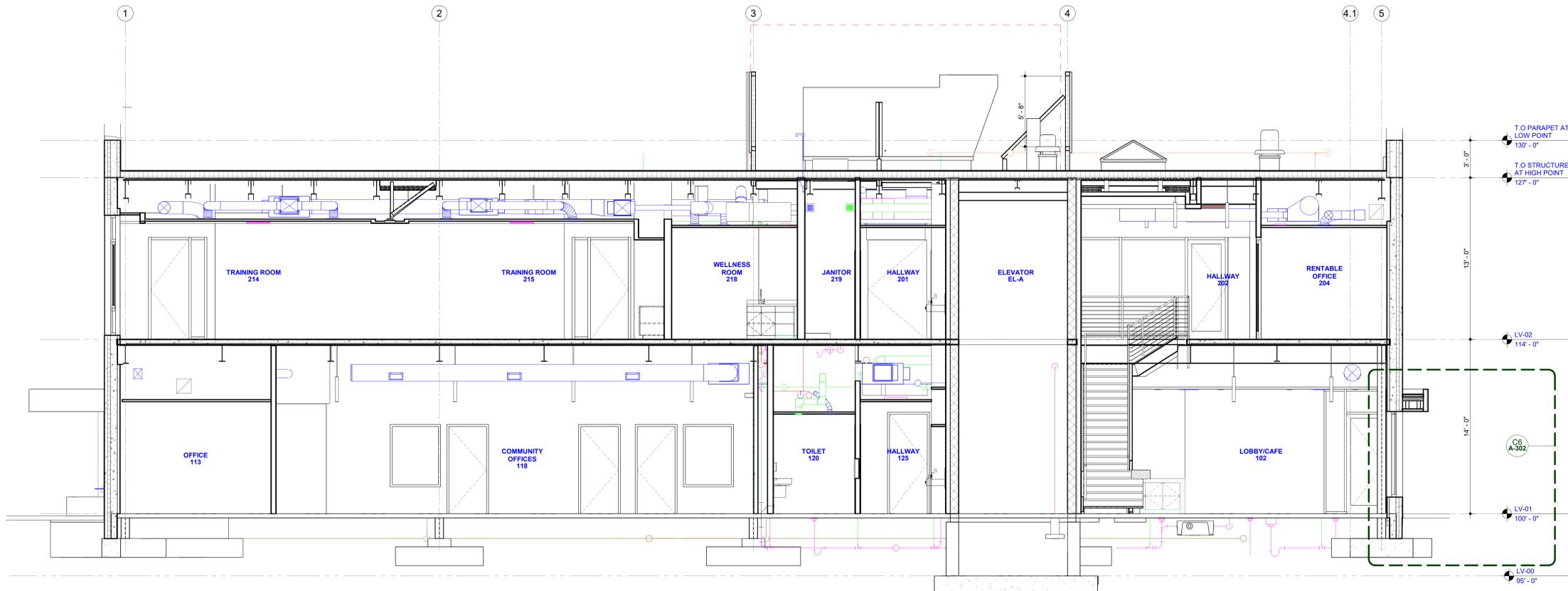
#	DESCRIPTION	DATE
1	Bid Set	02/07/2025
2	Addendum 1	02/20/2025

GRADE CONVERSION

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



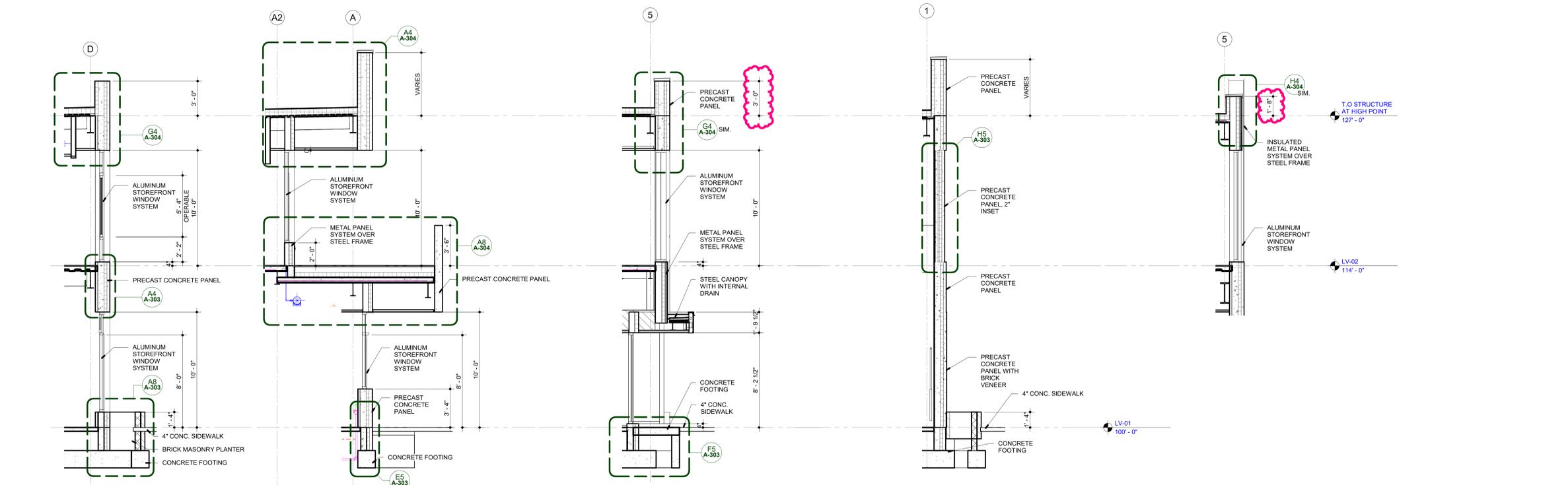
**A4** Building Section - NS  
 A-301 SCALE: 1/4" = 1'-0"



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

0' 16' 32'  
 Scale: 1/16" = 1'-0"

#	DESCRIPTION	DATE
1	Bid Set	02/07/2025
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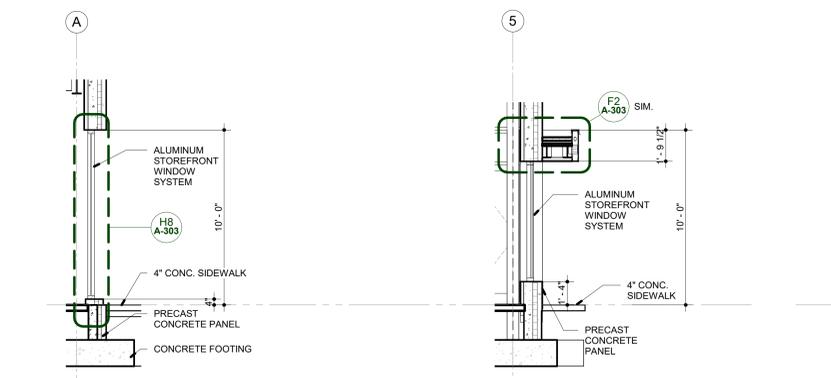
**A4** Typical Wall Section  
A-302 SCALE: 1/4" = 1'-0"

**C4** Wall Section at Balcony  
A-302 SCALE: 1/4" = 1'-0"

**D4** Wall Section at East Entrance  
A-302 SCALE: 1/4" = 1'-0"

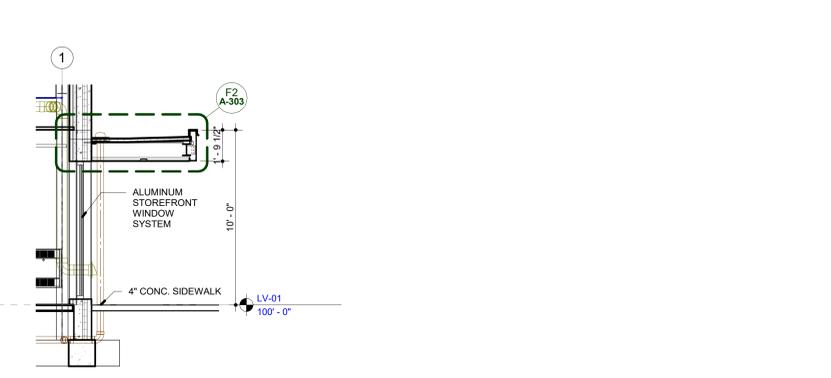
**F4** Typ. Wall Section with Brick  
A-302 SCALE: 1/4" = 1'-0"

**H4** Partial Wall Section Insulated Metal Panel  
A-302 SCALE: 1/4" = 1'-0"

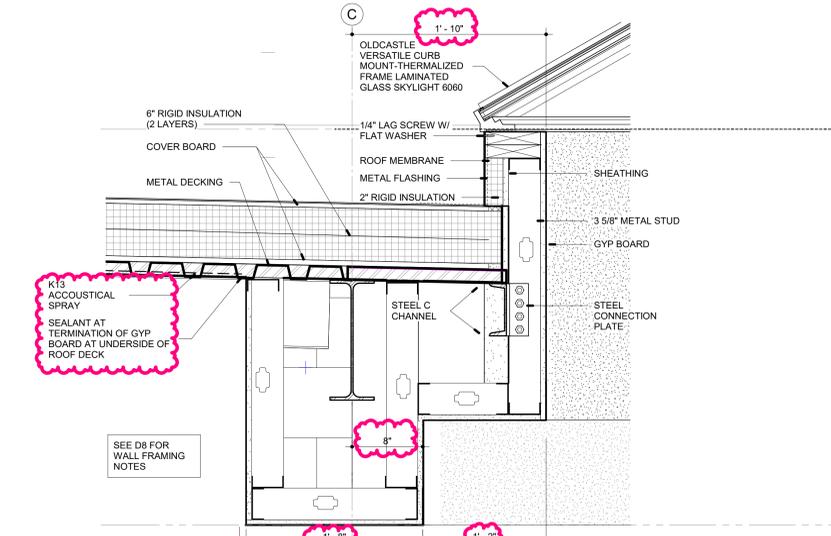


**A6** Partial Wall Section at Event Space  
A-302 SCALE: 1/4" = 1'-0"

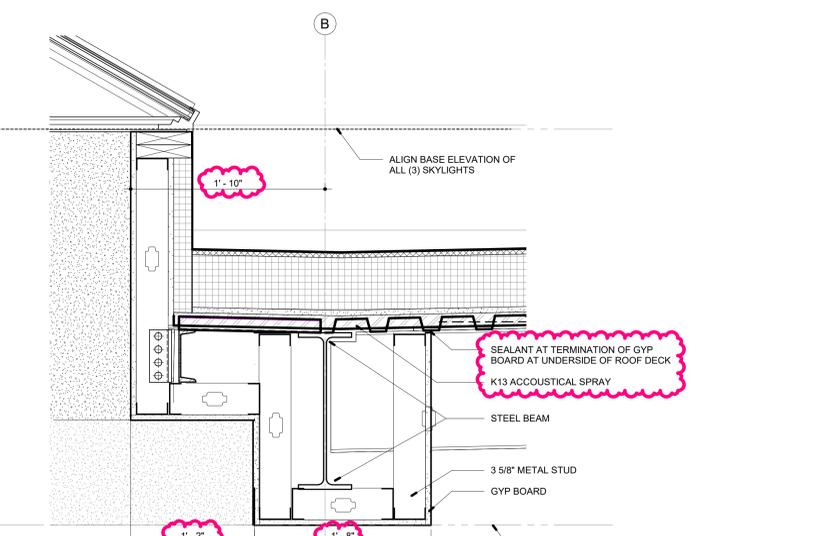
**C6** Partial Wall Section at East Entrance  
A-302 SCALE: 1/4" = 1'-0"



**D6** Partial Wall Elevation at West Entrance  
A-302 SCALE: 1/4" = 1'-0"

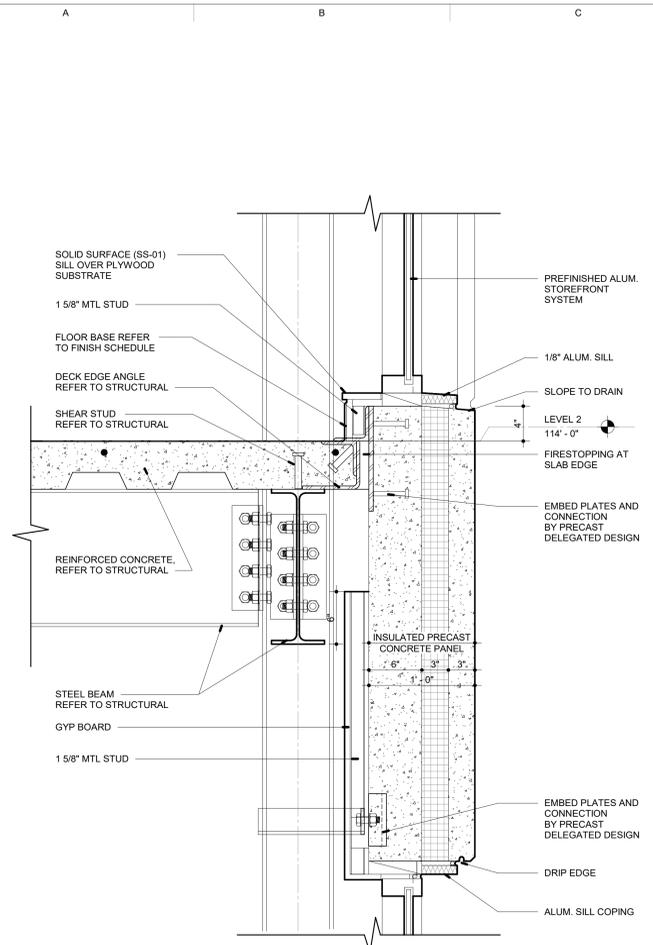


**A8** Section at South Skylight  
A-302 SCALE: 1 1/2" = 1'-0"

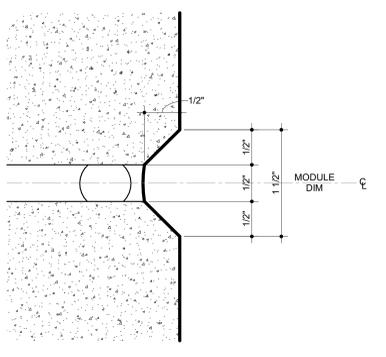


**D8** Section at North Skylight  
A-302 SCALE: 1 1/2" = 1'-0"

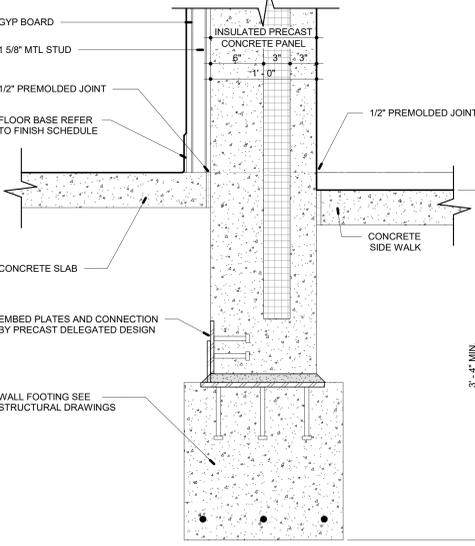
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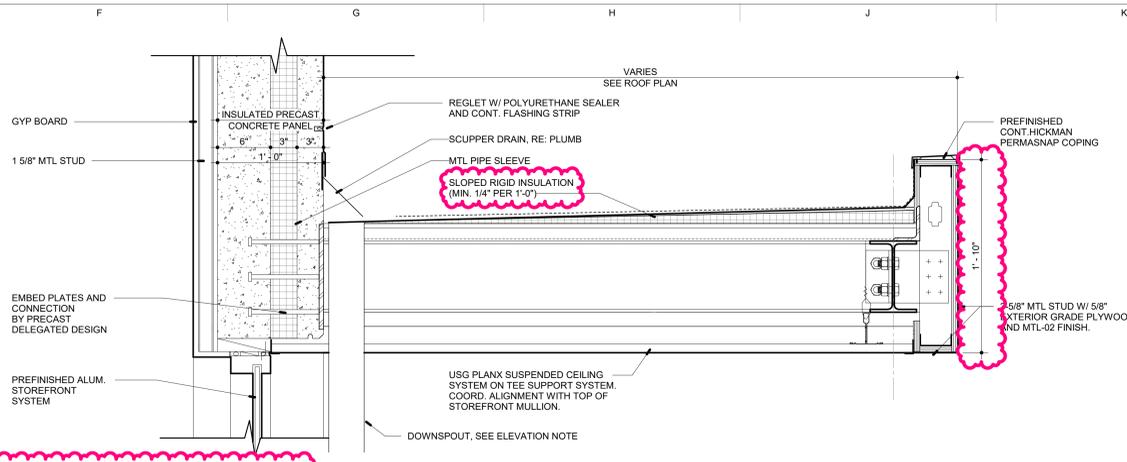
**A4 SECTION - EXTERIOR WALL AT SECOND FLOOR**  
A-303 SCALE: 1 1/2" = 1'-0"



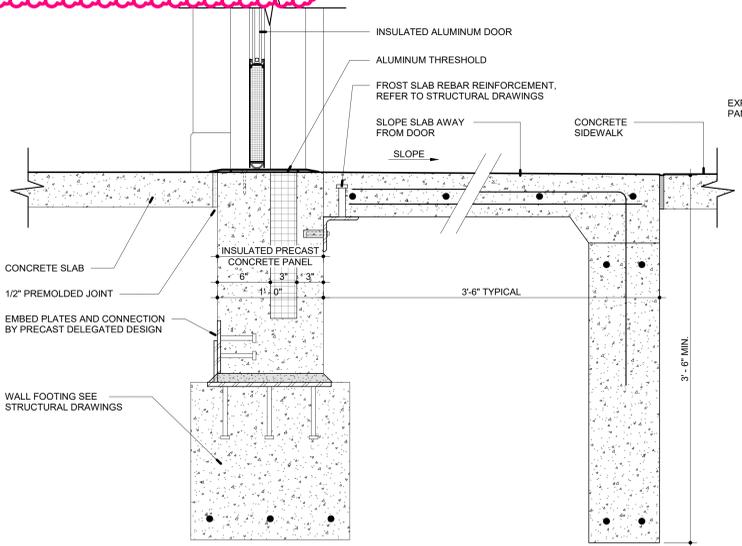
**D2 TYP. PRECAST JOINT PROFILE**  
A-303 SCALE: 12" = 1'-0"



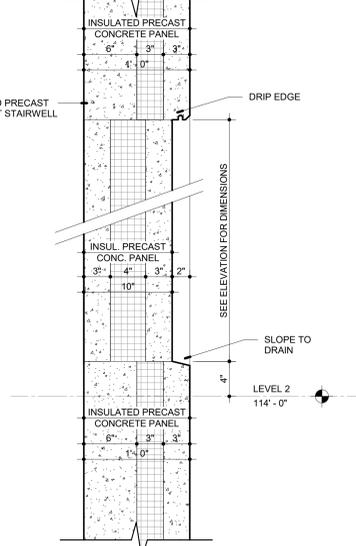
**E5 SECTION - EXTERIOR WALL @ TYP. FOOTING**  
A-303 SCALE: 1 1/2" = 1'-0"



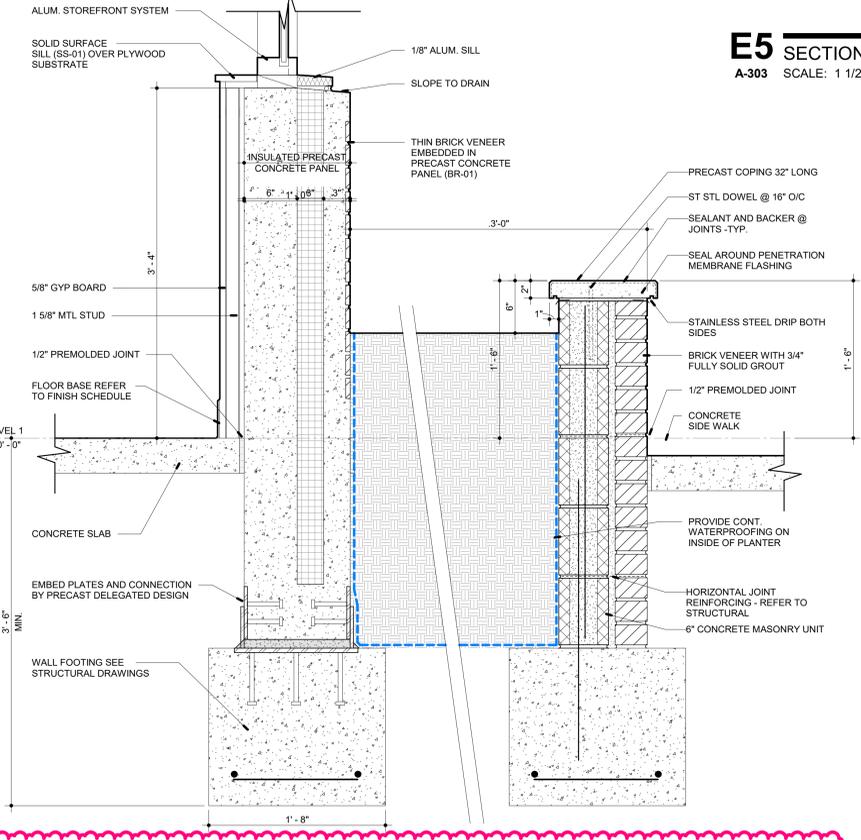
**F2 SECTION - TYP. CANOPY**  
A-303 SCALE: 1 1/2" = 1'-0"



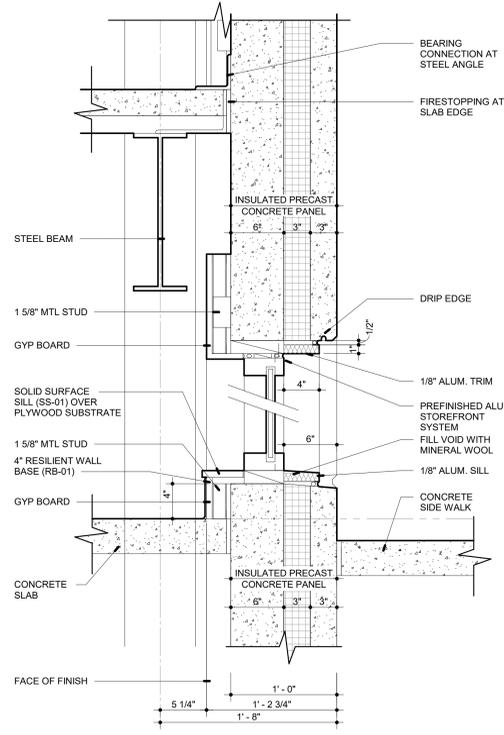
**F5 SECTION - EXTERIOR WALL @ TYP. DOOR SILL / FROST SLAB**  
A-303 SCALE: 1 1/2" = 1'-0"



**H5 SECTION - EXTERIOR WALL @ 2" RECESS**  
A-303 SCALE: 1 1/2" = 1'-0"



**A8 SECTION - EXTERIOR WALL @ PLANTER**  
A-303 SCALE: 1 1/2" = 1'-0"



**H8 SECTION - TYP. STOREFRONT AT EXTERIOR WALL @ GRADE**  
A-303 SCALE: 1 1/2" = 1'-0"

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CONSULTANT

PROFESSIONAL SEAL

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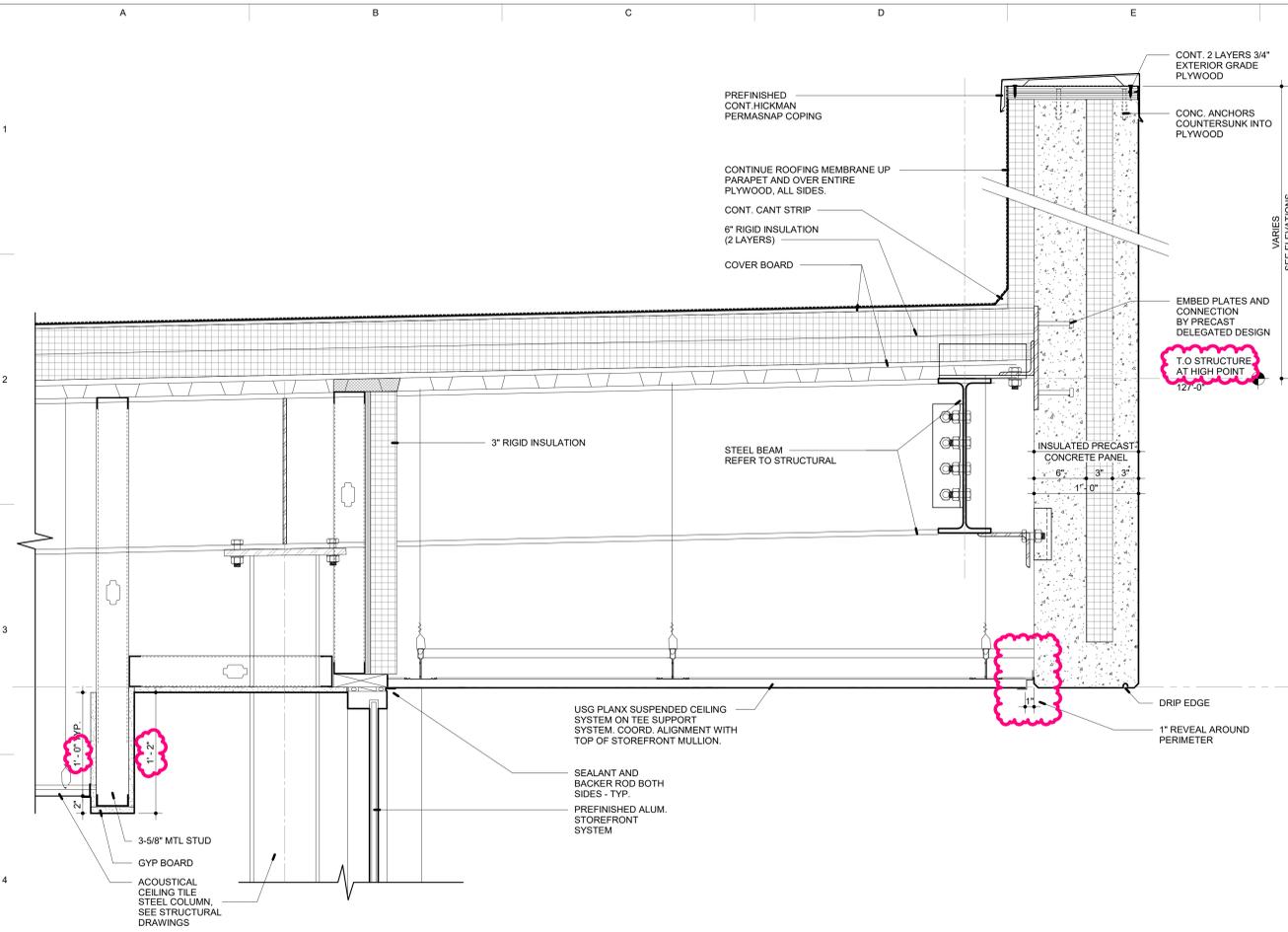
KEY PLAN

SHEET TITLE  
Details

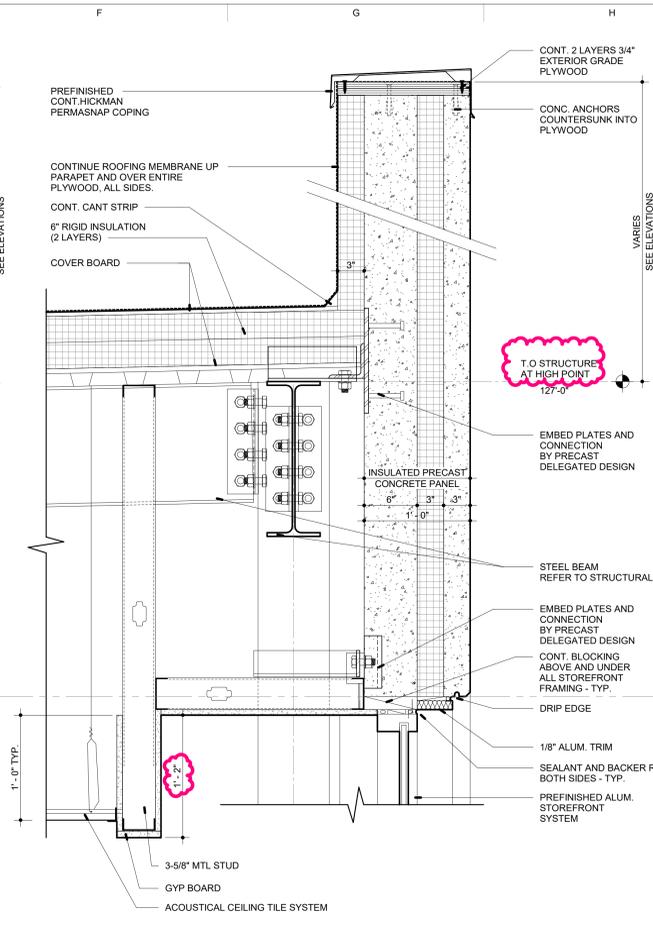
PROJECT #  
2024-010.00

SHEET #

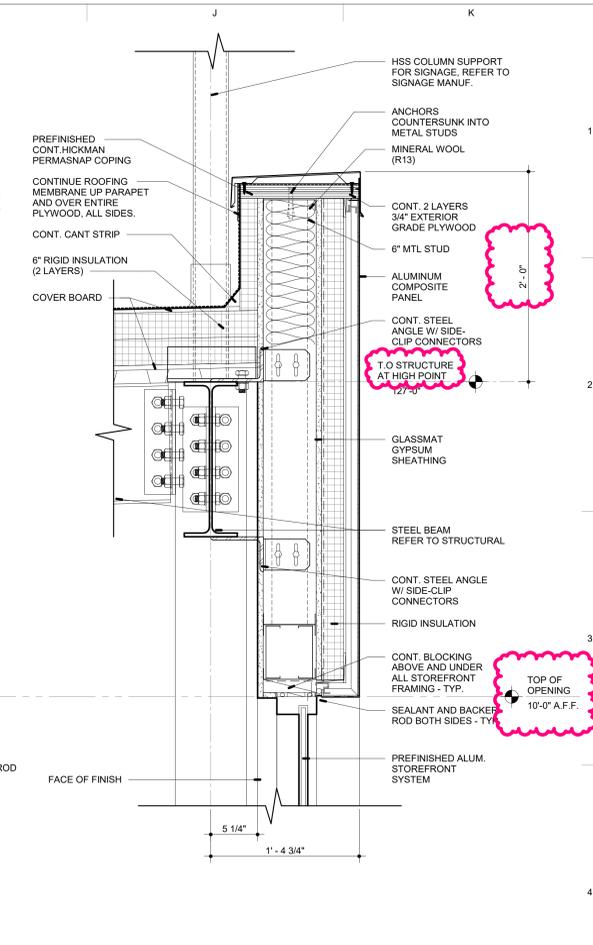
**A-304**



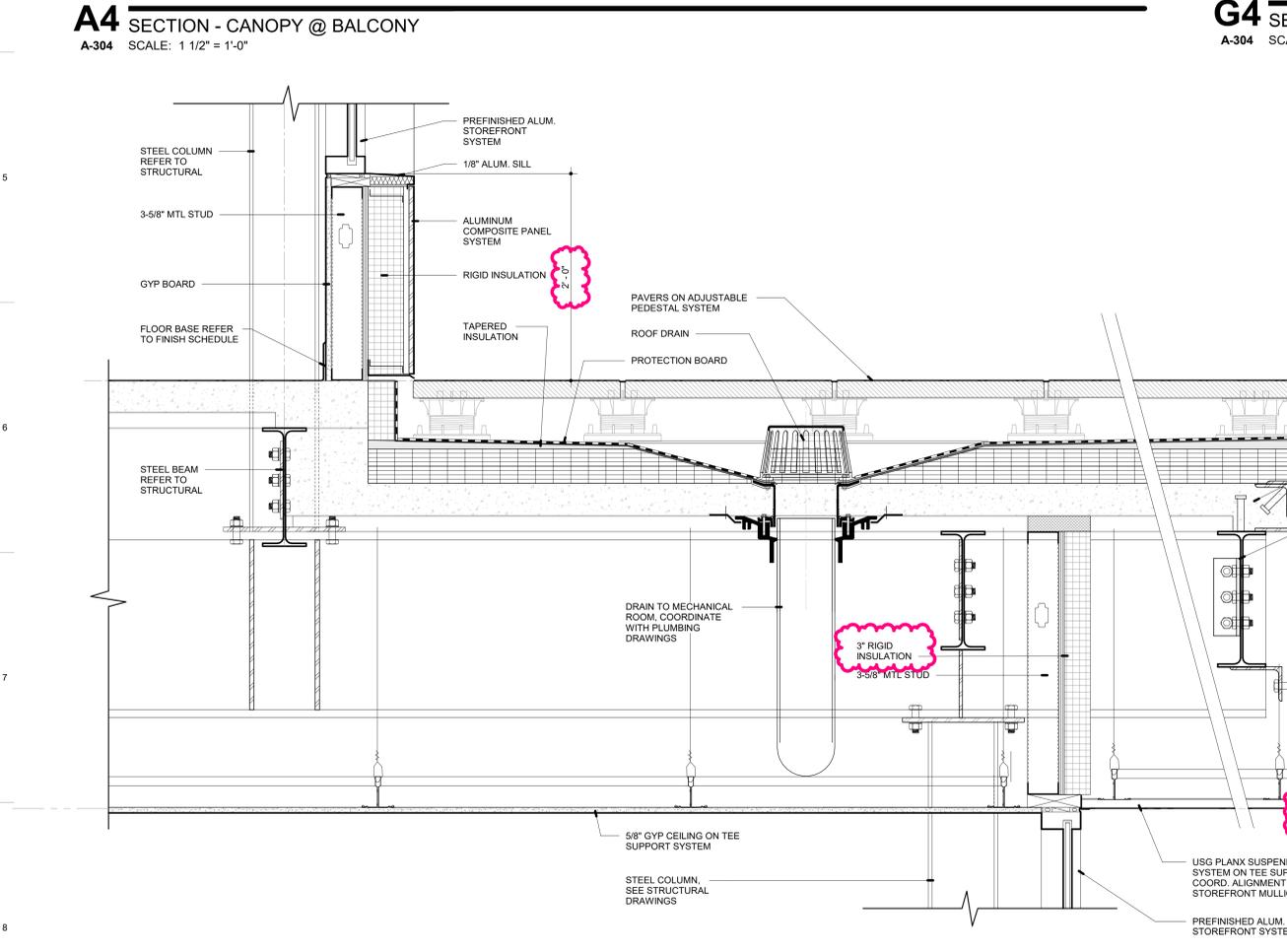
**A4** SECTION - CANOPY @ BALCONY  
A-304 SCALE: 1 1/2" = 1'-0"



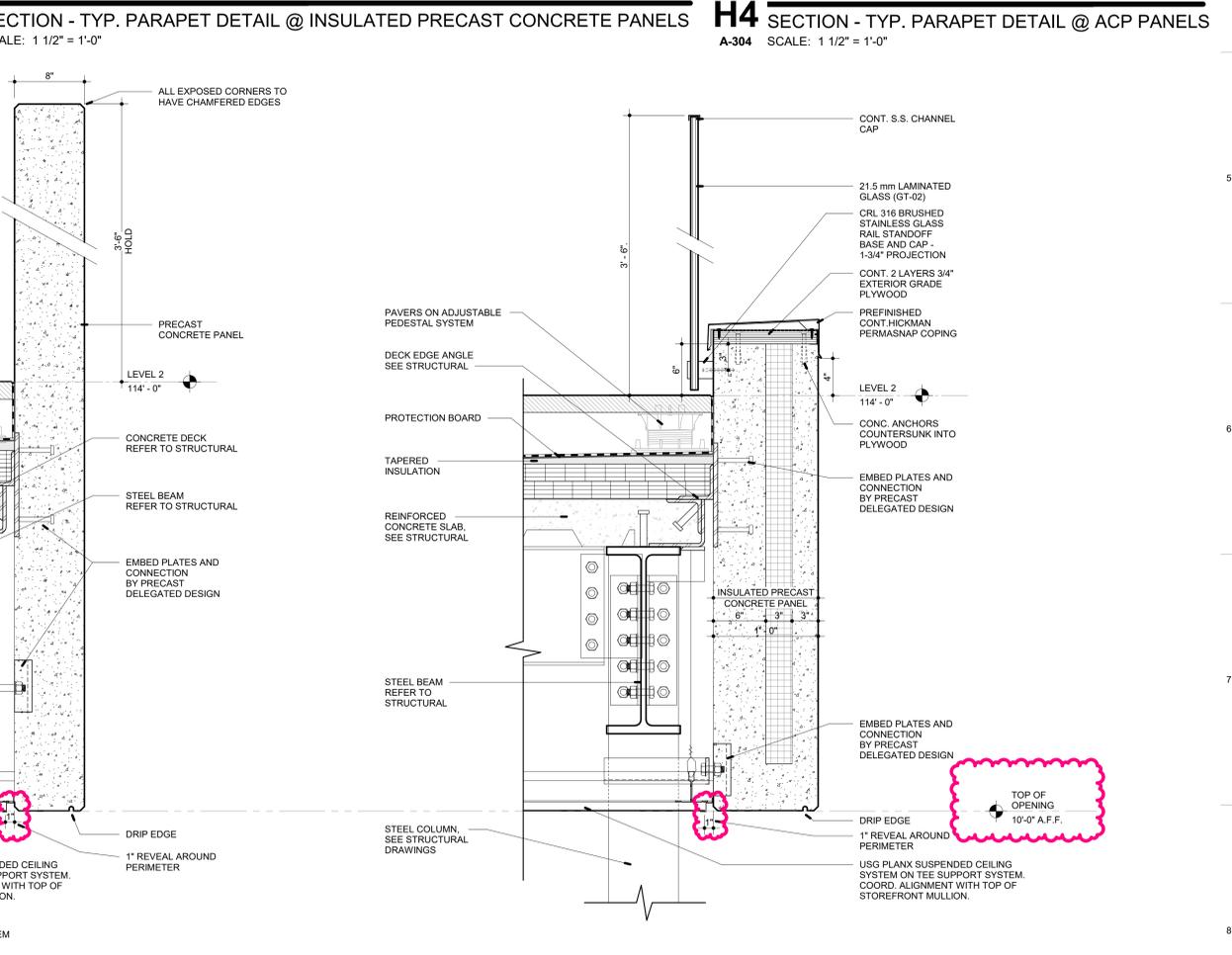
**G4** SECTION - TYP. PARAPET DETAIL @ INSULATED PRECAST CONCRETE PANELS  
A-304 SCALE: 1 1/2" = 1'-0"



**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"

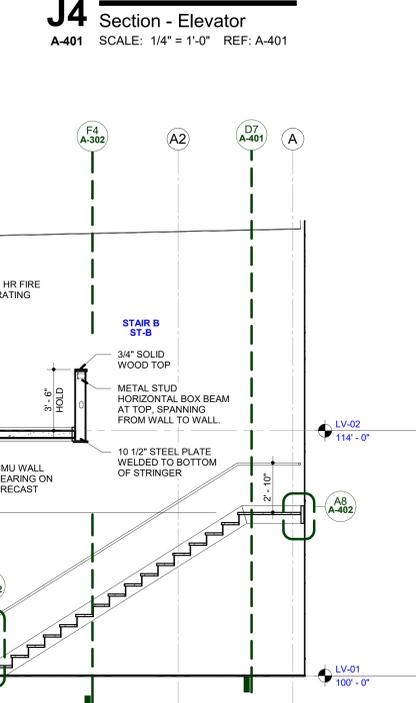
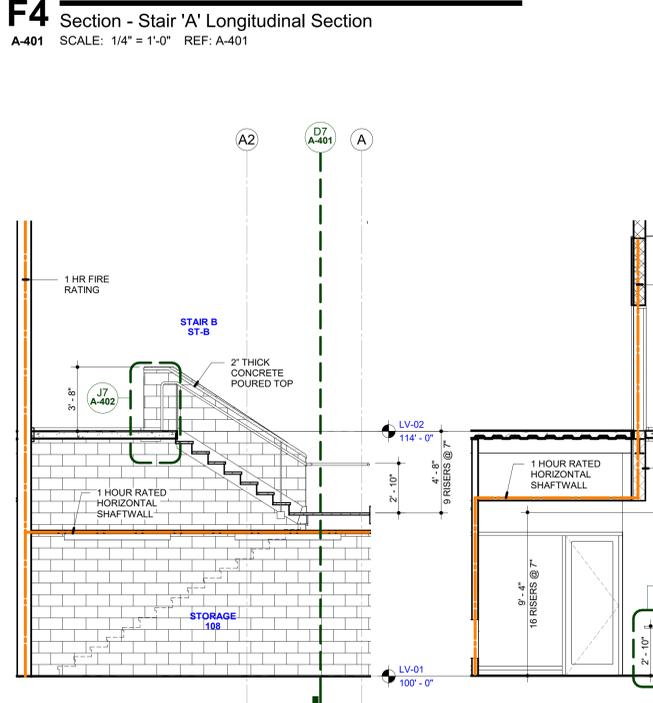
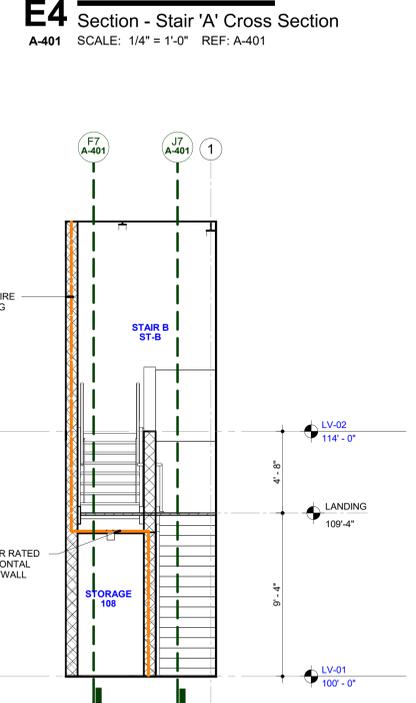
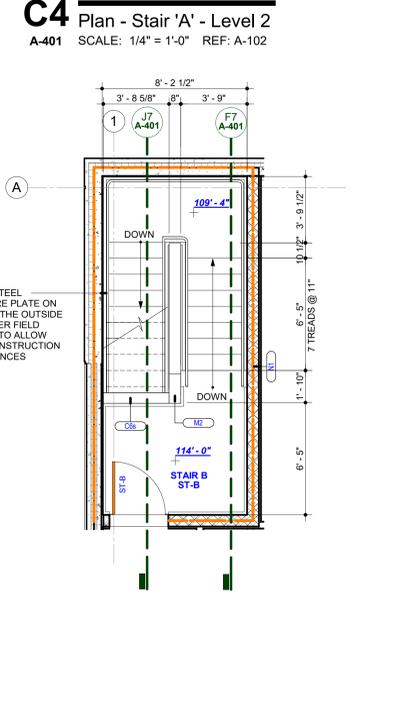
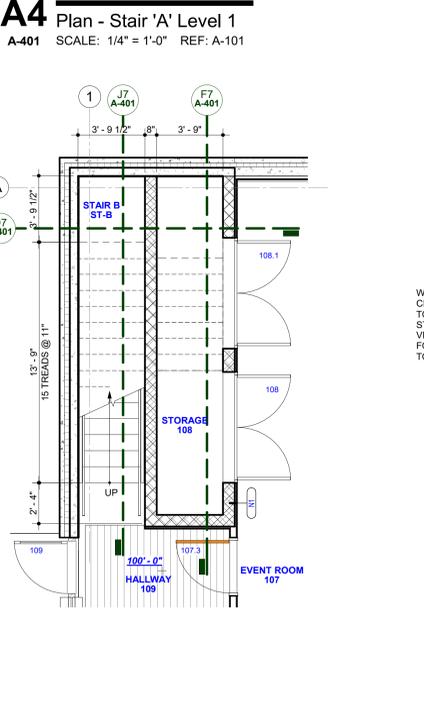
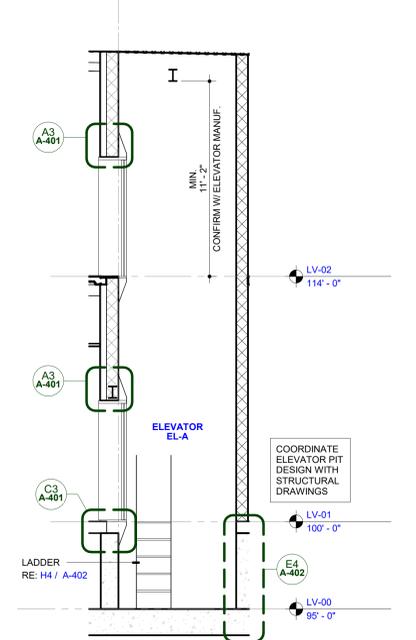
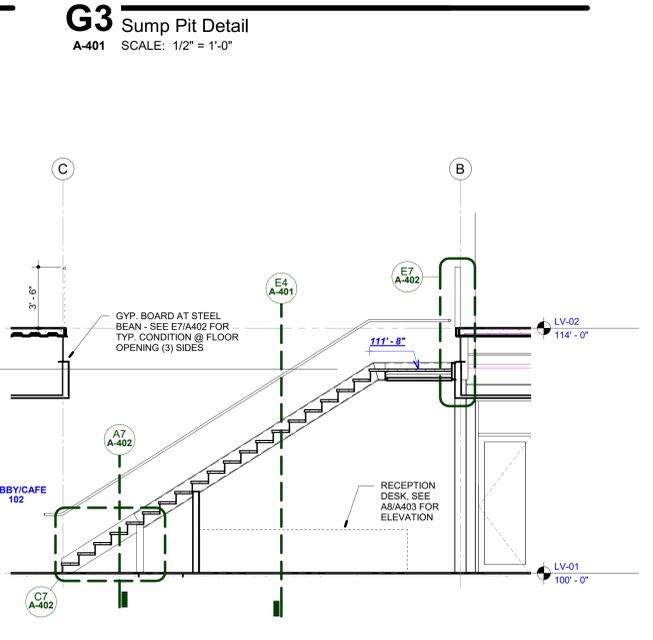
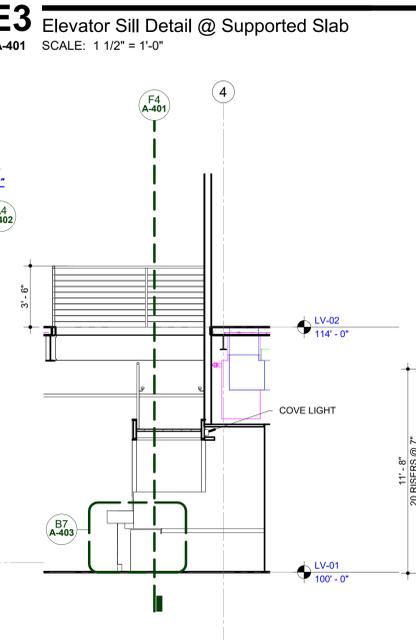
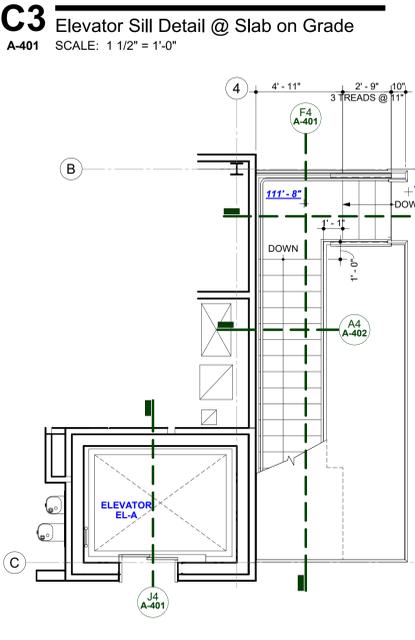
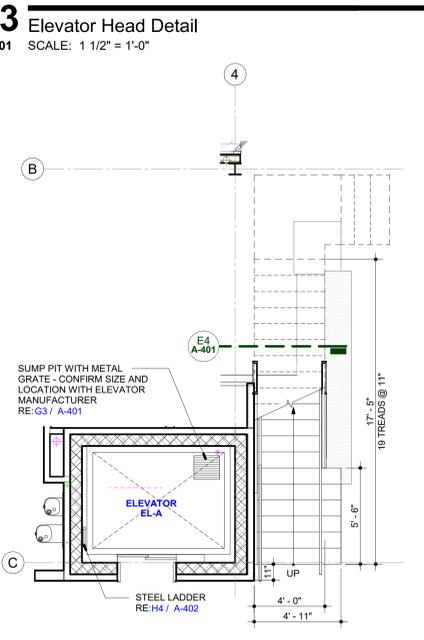
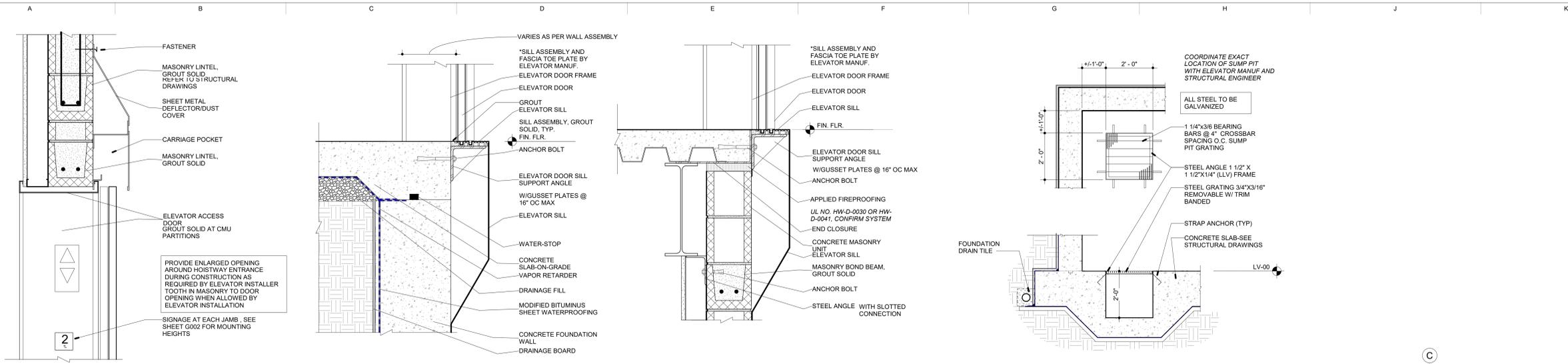


**G8** SECTION - BALCONY @ GLASS RAILING  
A-304 SCALE: 1 1/2" = 1'-0"

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

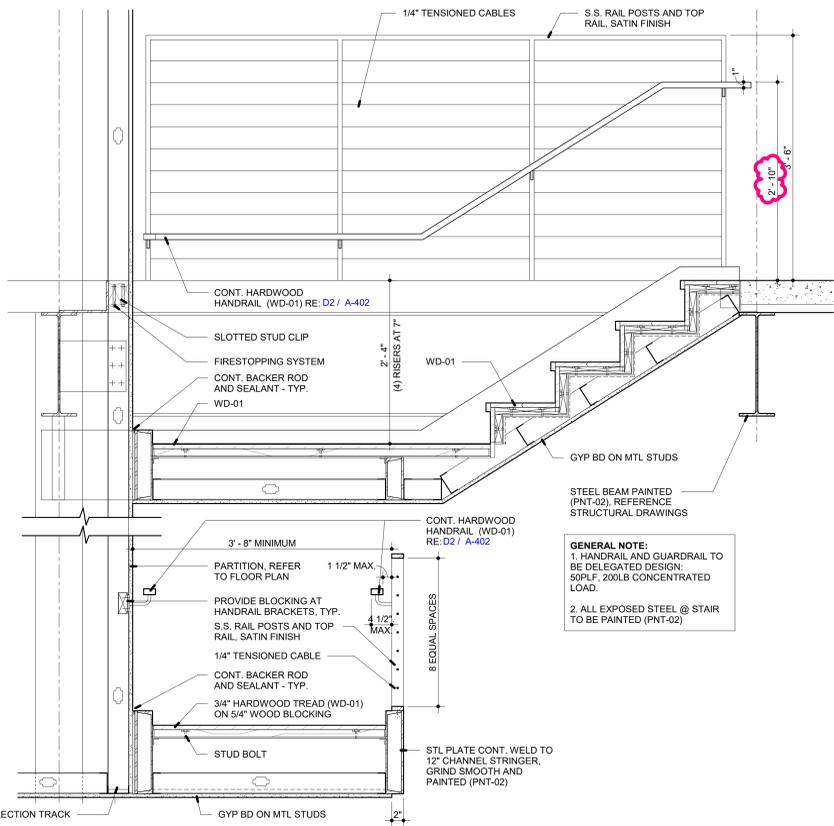
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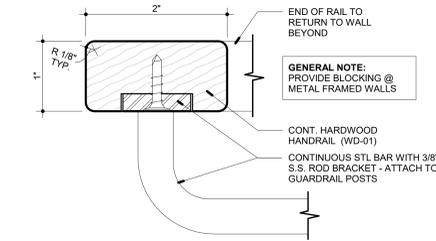


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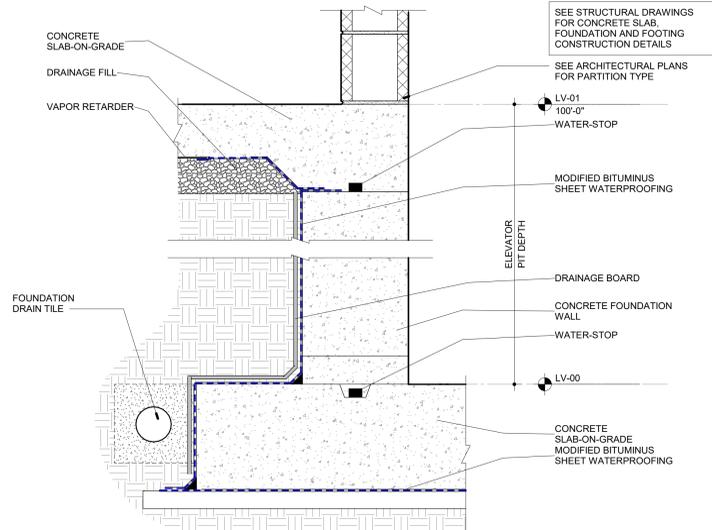
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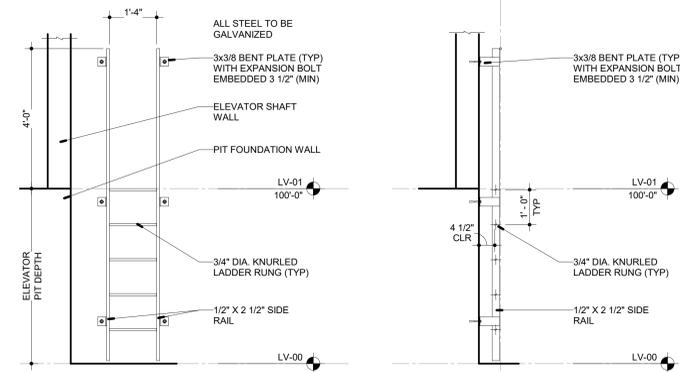
**A4** Section - Stair 'A' Cross Section  
 A-402 SCALE: 1" = 1'-0"



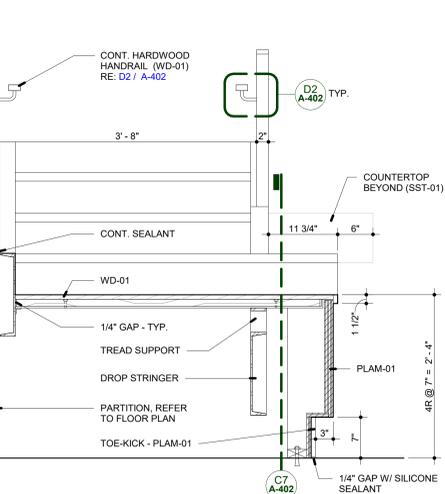
**D2** Section - Typ. Stair 'A' Handrail  
 A-402 SCALE: 12" = 1'-0"



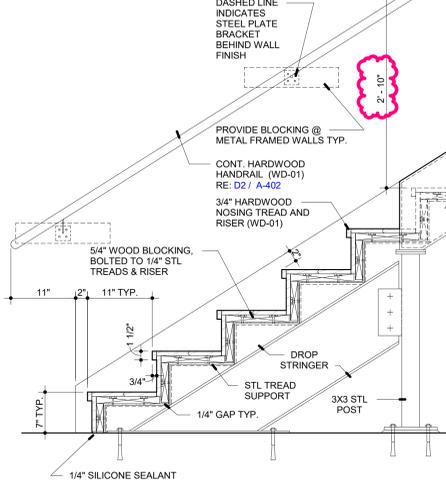
**E4** Section - Elevator Pit Detail  
 A-402 SCALE: 1 1/2" = 1'-0"



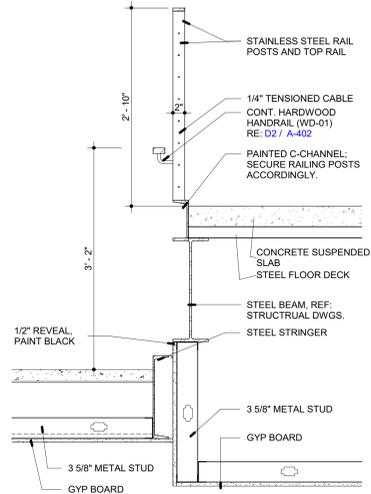
**H4** Elevation / Section - Pit Ladder Detail  
 A-402 SCALE: 1/2" = 1'-0"



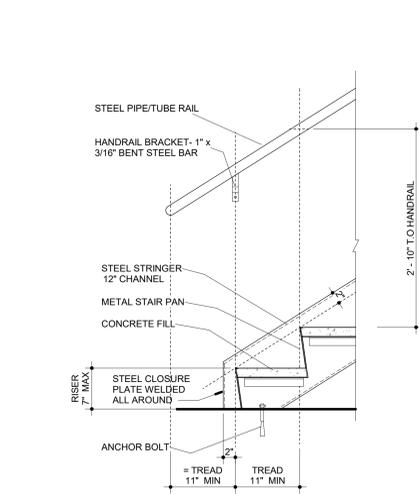
**A7** Section - Stair 'A' Cross Section  
 A-402 SCALE: 1" = 1'-0"



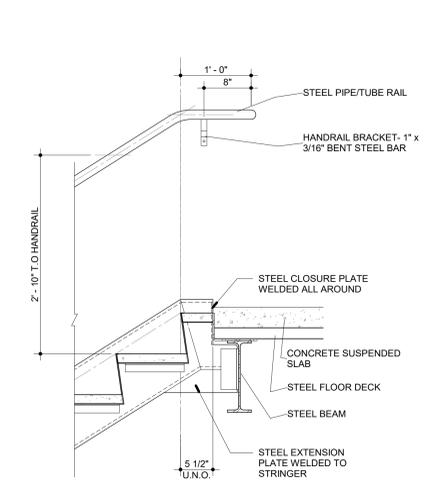
**C7** Section - Stair 'A' Base Detail  
 A-402 SCALE: 1" = 1'-0"



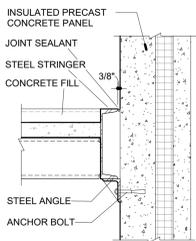
**E7** Section - Stair 'A' Connection to Concrete Slab  
 A-402 SCALE: 1" = 1'-0"



**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"

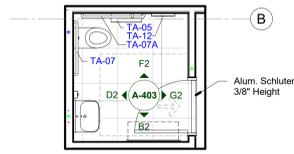


**A8** Section - Stair 'B' Stringer at Interior Walls  
 A-402 SCALE: 1" = 1'-0"

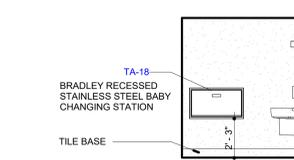
### MATERIAL KEYNOTES

TA-02	SURFACE MOUNTED SOAP DISPENSER
TA-05	SURFACE MOUNTED JUMBO-ROLL TOILET TISSUE DISPENSER
TA-07	36" GRAB BAR - REAR
TA-07A	42" GRAB BAR - SIDE
TA-07C	18" GRAB BAR - VERTICAL
TA-12	SURFACE MOUNTED SEAT COVER DISPENSER
TA-18	DIAPER CHANGING STATION

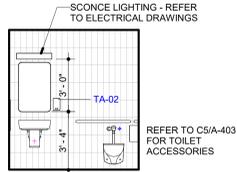
**A2** Detailed Plan - Typ. Restroom  
A-403 SCALE: 1/4" = 1'-0" REF: A-101



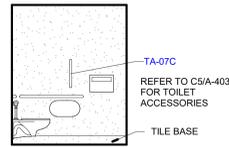
**B2** Interior Elevation - Restroom  
A-403 SCALE: 1/4" = 1'-0" REF: A-403



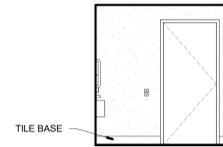
**D2** Interior Elevation - Restroom  
A-403 SCALE: 1/4" = 1'-0" REF: A-403



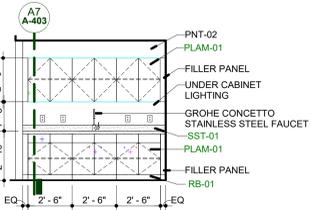
**F2** Interior Elevation - Restroom  
A-403 SCALE: 1/4" = 1'-0" REF: A-403



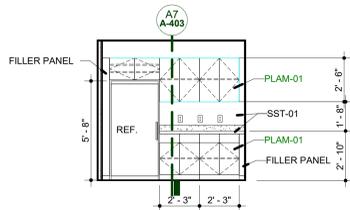
**G2** Interior Elevation - Restroom  
A-403 SCALE: 1/4" = 1'-0" REF: A-403



**A3** Interior Elevation - Kitchenette  
A-403 SCALE: 1/4" = 1'-0"



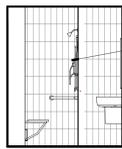
**B3** Interior Elevation - Kitchenette  
A-403 SCALE: 1/4" = 1'-0"



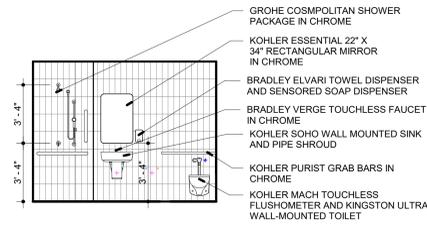
**D3** Detailed Plan - LV-02 Restroom  
A-403 SCALE: 1/4" = 1'-0" REF: A-102



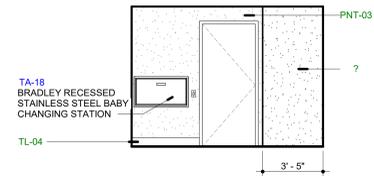
**F3** Interior Elevation - Shower  
A-403 SCALE: 1/4" = 1'-0" REF: A-403



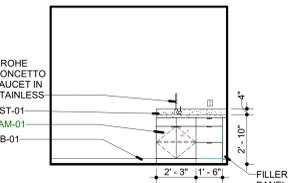
**G3** Interior Elevation - Shower  
A-403 SCALE: 1/4" = 1'-0" REF: A-403



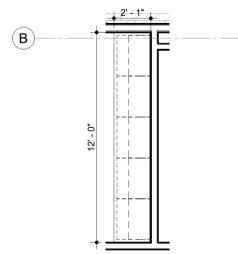
**J3** Interior Elevation - Shower  
A-403 SCALE: 1/4" = 1'-0" REF: A-403



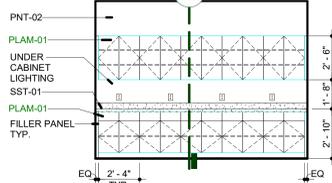
**A5** Interior Elevation - Wellness Room  
A-403 SCALE: 1/4" = 1'-0" REF: A-102



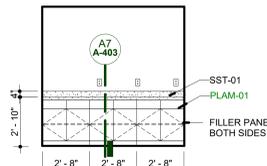
**B5** Detailed Plan - Hallway  
A-403 SCALE: 1/4" = 1'-0" REF: A-101



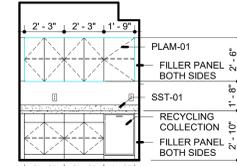
**D5** Interior Elevation - Hallway  
A-403 SCALE: 1/4" = 1'-0" REF: A-101



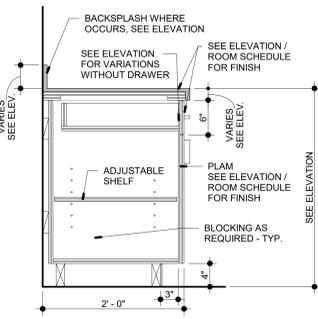
**F5** Interior Elevation - Training Room  
A-403 SCALE: 1/4" = 1'-0" REF: A-102



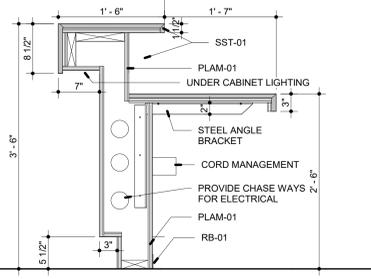
**G5** Interior Elevation - Work Room  
A-403 SCALE: 1/4" = 1'-0" REF: A-102



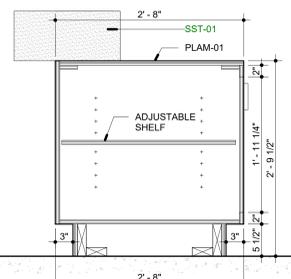
**A7** Millwork - Base Cabinet  
A-403 SCALE: 1" = 1'-0" REF: A-403



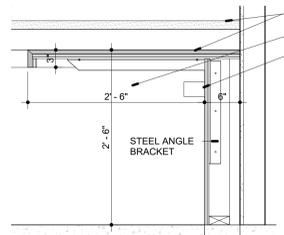
**B7** Millwork Front Desk  
A-403 SCALE: 1" = 1'-0" REF: A-401



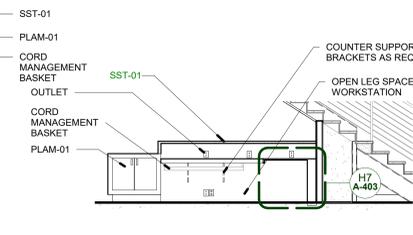
**D7** Millwork - Base Cabinet  
A-403 SCALE: 1" = 1'-0" REF: A-403



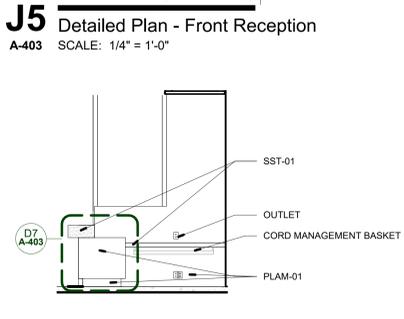
**H7** Millwork - Counter under Stair A  
A-403 SCALE: 1" = 1'-0" REF: A-403



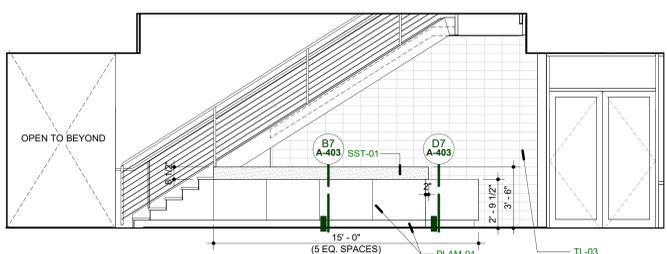
**G7** Interior Elevation - Front Reception Desk  
A-403 SCALE: 1/4" = 1'-0"



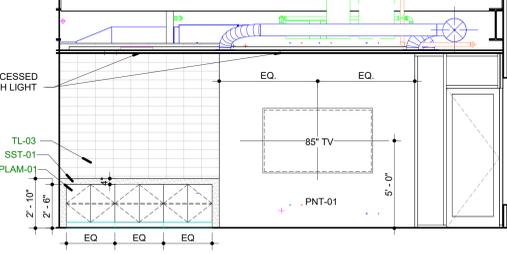
**J7** Interior Elevation - Reception Desk Under Stairs  
A-403 SCALE: 1/4" = 1'-0" REF: A-101



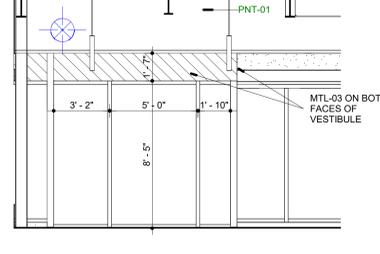
**A8** Interior Elevation - Reception Desk  
A-403 SCALE: 1/4" = 1'-0" REF: A-101



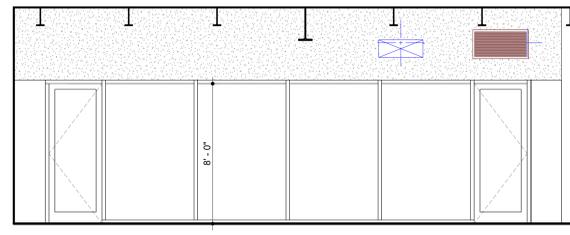
**D8** Interior Elevation - Cafe  
A-403 SCALE: 1/4" = 1'-0" REF: A-101



**F8** Interior Elevation - Lobby  
A-403 SCALE: 1/4" = 1'-0" REF: A-101



**H8** Interior Elevation - Conference Room 206  
A-403 SCALE: 1/4" = 1'-0" REF: A-102



### CONSULTANT

### PROFESSIONAL SEAL

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#	DESCRIPTION	DATE
1	Bid Set	02/07/2025
2	Addendum 1	02/20/2025

### KEY PLAN

### SHEET TITLE Interior Elevations

PROJECT #  
2024-010.00

SHEET #

**A-403**

## 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
2	Addendum 1	02/20/2025

KEY PLAN

SHEET TITLE  
Roof Details

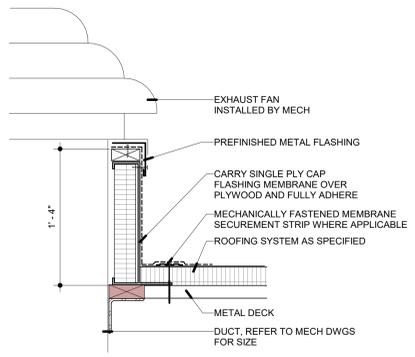
PROJECT #  
2024-010.00

SHEET #

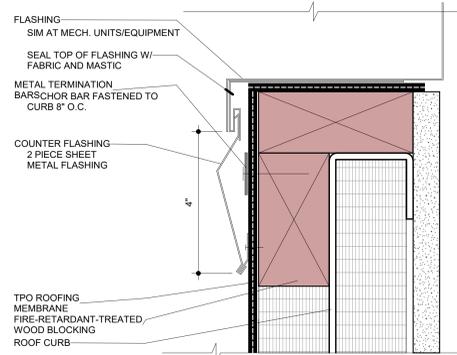
**A-501**

### MATERIAL KEYNOTES

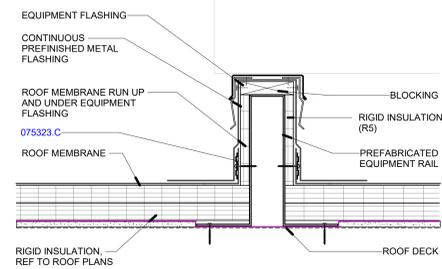
051200.L	STEEL HOLLOW STRUCTURAL SECTION (HSS)
053100.A	STEEL DECKING
053100.B	STEEL ROOF DECK
053100.C	STEEL FLOOR DECK
061000.B	FIRE-RETARDANT-TREATED WOOD BLOCKING
061600.A	GLASS-MAT GYPSUM SHEATHING
075323.B	TPO ROOFING MEMBRANE
075323.C	SHEET FLASHING
075323.D	VAPOR RETARDER
075323.H	METAL TERMINATION 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



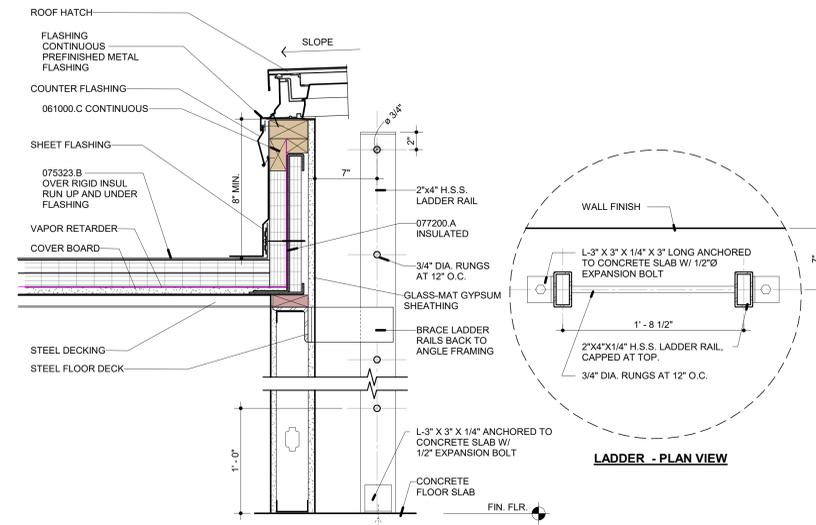
**A3 EXHAUST FAN CURB**  
A-501 SCALE: 1 1/2" = 1'-0"



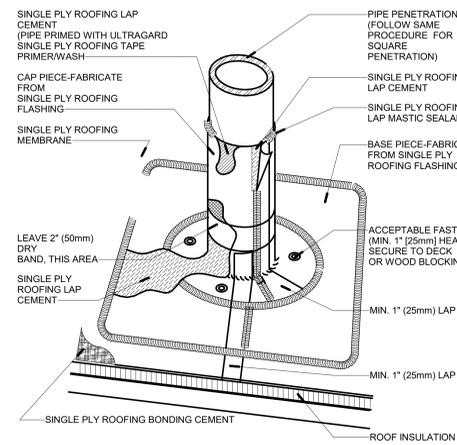
**A5 TYP ROOF CURB ENLARGED DETAIL**  
A-501 SCALE: 6" = 1'-0"



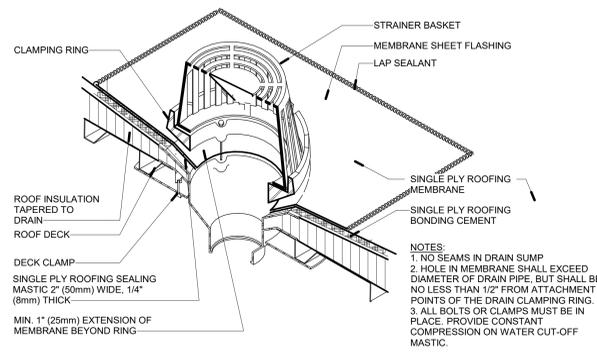
**F5 TYP ROOF EQUIPMENT RAIL DETAIL**  
A-501 SCALE: 1 1/2" = 1'-0"



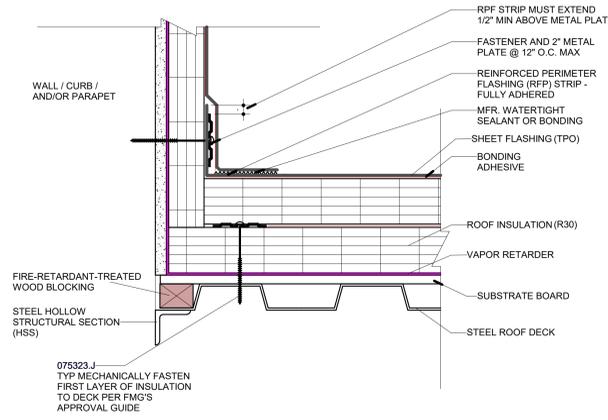
**C5 ROOF HATCH & LADDER DETAIL**  
A-501 SCALE: 1 1/2" = 1'-0"



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

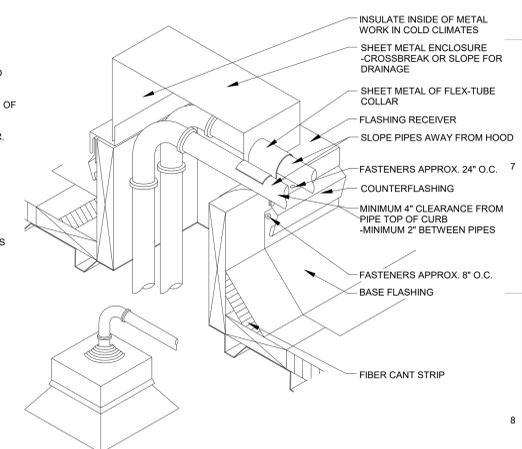


**C8 ROOF DRAIN DETAIL (TPO)**  
A-501 SCALE: 1 1/2" = 1'-0"



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

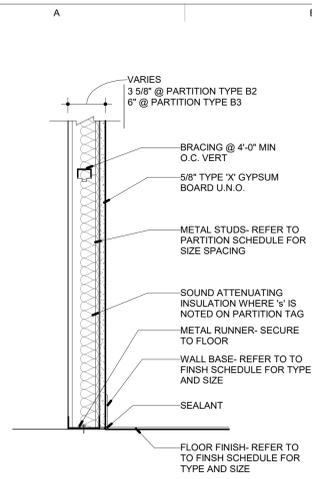
- NOTES:
- REFER TO MFR. STANDARDS FOR PROPER MEMBRANE SPLICE BETWEEN CURED SINGLE PLY ROOFING SECTIONS.
  - LOCATE TERMINATION ABOVE ANTICIPATED WATER LEVEL.
  - WALL FLASHING MUST BE A CONTINUATION OF DECK MEMBRANE.
  - FOR CORNER APPLICATION, REFER TO MFR. STANDARD DETAILS.
  - IN-SEAM SEALANT IS REQUIRED ON ALL VERTICAL SPLICES BETWEEN ADJOINING SECTIONS OF CURED SINGLE PLY ROOFING MEMBRANE.
  - POLYMER SEAM PLATES ARE REQUIRED IN LIEU OF SEAM FASTENING PLATES FOR MECHANICALLY-FASTENED ROOFING SYSTEMS OVER STEEL DECKS.



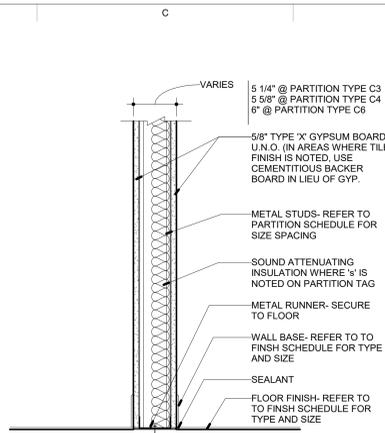
**J8 PIPING/CONDUIT THROUGH ROOF DECK DETAIL**  
A-501 SCALE: 1 1/2" = 1'-0"



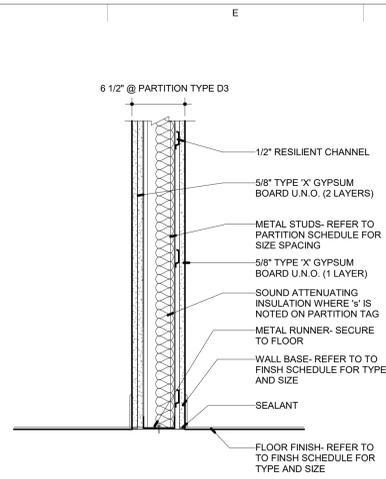
#	DESCRIPTION	DATE
1	Bid Set	02/07/2025
2	Addendum 1	02/20/2025



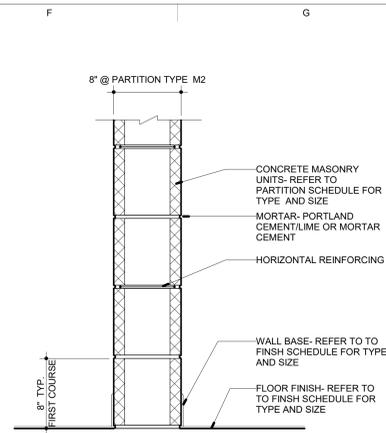
**Partition Type B**  
SCALE: 1 1/2" = 1'-0"



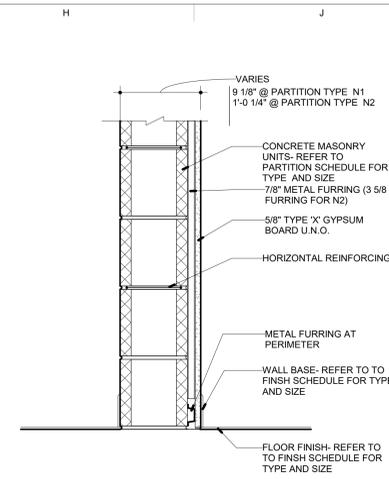
**Partition Type C**  
SCALE: 1 1/2" = 1'-0"



**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 (X or Y) (Z)	UL DESIGN			STC*		REMARKS	
		MODEL	ACTUAL		DEPTH	THICK	SPACING		1Hr	2Hr	Other	W/O	W		
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	<varies>	6 3/4"	A-601	6"	30 MIL	16"	20'-3"	20'-3"	--	--	--	42	44	
C3	1 GYP. BOTH SIDES ON 3 5/8" METAL STUDS	<varies>	4 7/8"	A-601	3 5/8"	30 MIL	16"	13'-6"	14'-11/8"	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 RC ONE SIDE	6"	6 1/8"	A-601	3 5/8"	30 MIL	16"	14'-7"	15'-5"	--	U419	--	48	56	
M2	8" CMU (NORMAL WEIGHT)	8"	7 5/8"	A-601	--	--	--	16'-0"	16'-0"	--	U905	--	45	51	
N1	6" 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 ± 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.
- 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.

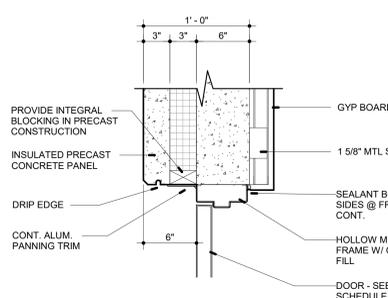
**INTERIOR WALL PARTITION KEY**

**PARTITION GROUPS**

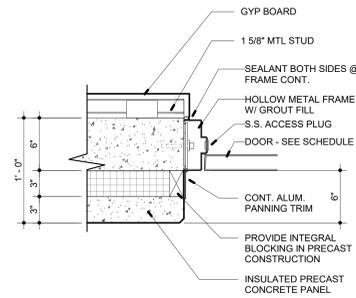
- B = ONE LAYER OF GYPSUM BOARD ON ONE SIDE OF METAL STUDS.
- C = ONE LAYER OF GYPSUM BOARD ON BOTH SIDES OF METAL STUDS.
- D = TWO LAYERS OF GYPSUM BOARD ON BOTH SIDES OF METAL STUDS.
- M = MASONRY WALL.
- N = MASONRY WALL WITH ONE LAYER OF GYPSUM BOARD ON METAL FURRING ON ONE SIDE OF MASONRY.

**TYPICAL ABBREVIATIONS**

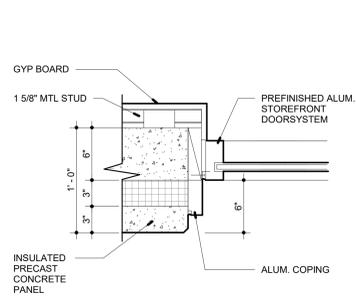
- GYP GYPSUM BOARD
- CMU CONCRETE MASONRY UNIT



**A8 TYP. EXTERIOR H.M. HEAD DETAIL**  
A-602 SCALE: 1 1/2" = 1'-0"



**C8 TYP. EXTERIOR H.M. JAMB DETAIL**  
A-602 SCALE: 1 1/2" = 1'-0"



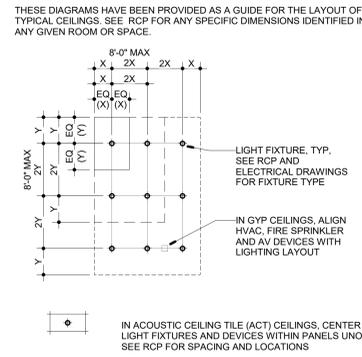
**E8 TYP. EXTERIOR STOREFRONT JAMB DETAIL**  
A-602 SCALE: 1 1/2" = 1'-0"

#	DESCRIPTION	DATE
1	Bid Set	02/07/2025
2	Addendum 1	02/20/2025

**RCP GENERAL NOTES**

- REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
- ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
- CEILING HEIGHTS ARE AS NOTED ON THE REFLECTED CEILING PLAN UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, ETC. SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3" RADIUS CENTERED BETWEEN CEILING GRIDS.
- IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCED IN NOTED. IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR APC WITH MULTIPLE SCORE PATTERNS, COORDINATE LOCATION WITH ARCHITECT.
- PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, ETC. AT ACOUSTICAL PANEL CEILING.
- ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
  - FACE OF FINISHED WALL
  - FACE OF FINISHED BULKHEADS
  - CENTERLINE OF COLUMNS
  - CENTERLINE OF TEES
- IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK, AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN. 4" ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF STRUCTURE.

**LIGHTING LAYOUT DIAGRAM**



**Lighting Schedule**

<b>DL-01</b>	Recessed Can Downlight	Primary NXT	Product: BeveLED 2.2 Finish: White Size: 4.5" aperture Remarks: round, trimless, adjustable downlight, 3000k
<b>RL-01</b>	Recessed Linear Wall Washer	NeoRay	Product: Define Series Finish: Black Size: refer to drawings Remarks: direct lens, flush light
<b>LS-01</b>	Linear Suspension	NeoRay	Product: Define Series Finish: Black Size: refer to drawings Remarks: direct lens, flush light
<b>PL-01</b>	Pendant Light	NanoLED	Product: Recessed J-box downlight Finish: Black Size: 3" diameter, 10" height Remarks: cable suspension
<b>SC-01</b>	Wall Sconce	Pure Edge Lighting	Product: Pipeline 2 with Floating Canopy Finish: Satin Black Size: 30" Length Remarks: orient horizontally

**LIGHTING SYMBOLS**

- RECESSED DOWNLIGHT FIXTURE, DL-01
- RECESSED LIGHT TROFFER FIXTURE
- ⊕ PENDANT LIGHT, PL-01
- SUSPENDED LINEAR LIGHT FIXTURE, LS001
- CONCEALED LINEAR WALL WASHER, RL-01
- WALL SCONCE, SC-01
- EXIT SIGN, SINGLE SIDED

**LOW VOLTAGE SYMBOLS**

- 📷 CAMERA
- 🔊 SPEAKER
- 📶 WIRELESS ACCESS POINT

**MECHANICAL SYMBOLS**

- ☒ DIFFUSER
- ☒ RETURN
- ☒ EXHAUST
- LINEAR DIFFUSER
- SLOT DIFFUSER

**FIRE PROTECTION SYMBOLS**

- AUTOMATIC SPRINKLER HEAD
- ☉ SMOKE DETECTOR

**MISCELLANEOUS SYMBOLS**

- 🚪 ACCESS PANEL/DOOR
- ACT-01 9'-0" CEILING HEIGHT AND TYPE MARK
- 9'-0" INDICATES CEILING HEIGHT ABOVE FINISHED FLOOR
- ☒ GYPSUM BOARD CEILING PAINT PNT-01 (U.N.D.)
- ☒ ACOUSTIC CEILING TILE (REFER TO FINISH LEGEND) (2x2)
- EC-01 EXPOSED CEILING, NO K13
- EC-02 EXPOSED CEILING, WITH LIGHT GREY K13

**GENERAL NOTE:** ALL EXPOSED CONSTRUCTION SHALL BE PAINTED (PNT-02), INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL COLUMNS AND BEAMS, MISCELLANEOUS STEEL, SPRINKLER LINES, MECHANICAL EQUIPMENT, AND DUCTWORK. ANY WIRING CONDUIT ADJACENT TO PAINTED CONSTRUCTION SHALL BE PAINTED (PNT-02) TO MATCH THE ADJACENT SURFACE.



**A8** Reflected Ceiling Plan - Level 1  
 A-701 SCALE: 1/4" = 1'-0" REF: A-201

#	DESCRIPTION	DATE
1	Bid Set	02/07/2025
2	Addendum 1	02/20/2025

### LIGHTING SYMBOLS

- RECESSED DOWNLIGHT FIXTURE, DL-01
- RECESSED LIGHT TROFFER FIXTURE
- ⊕ PENDANT LIGHT, PL-01
- SUSPENDED LINEAR LIGHT FIXTURE, LS001
- CONCEALED LINEAR WALL WASHER, RL-01
- WALL SCONCE, SC-01
- ⊙ EXIT SIGN, SINGLE SIDED

### LOW VOLTAGE SYMBOLS

- ⊞ CAMERA
- ⊙ SPEAKER
- ⊙ WIRELESS ACCESS POINT

### MECHANICAL SYMBOLS

- ⊞ DIFFUSER
- ⊞ RETURN
- ⊞ EXHAUST
- LINEAR DIFFUSER
- SLOT DIFFUSER

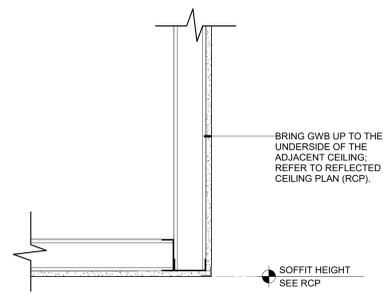
### FIRE PROTECTION SYMBOLS

- AUTOMATIC SPRINKLER HEAD
- ⊞ SMOKE DETECTOR

### MISCELLANEOUS SYMBOLS

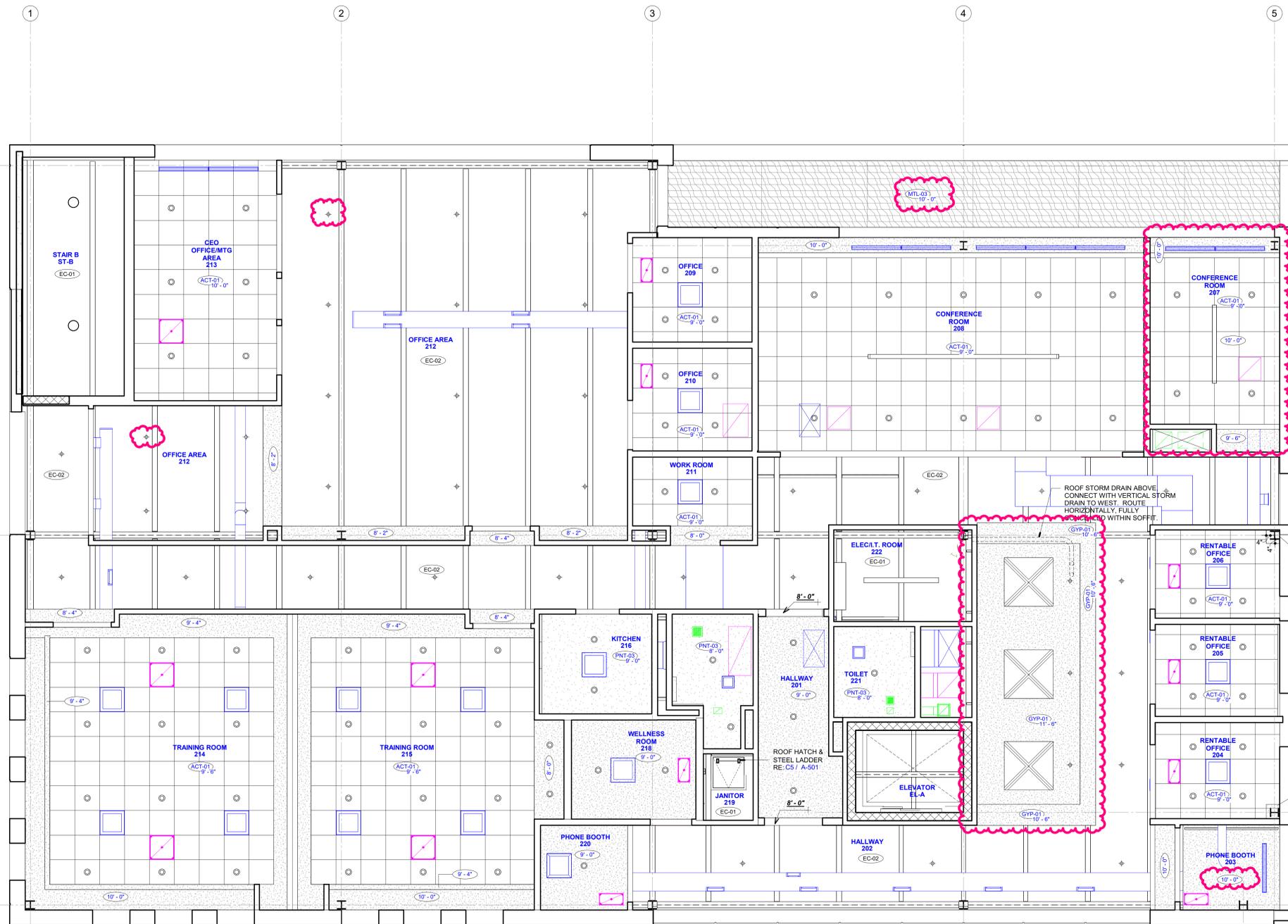
- ⊞ ACCESS PANEL/DOOR
- ⊞ CEILING HEIGHT AND TYPE MARK
- ⊞ INDICATES CEILING HEIGHT ABOVE FINISHED FLOOR
- ⊞ (A2) GYPSUM BOARD CEILING PAINT PNT-01 (U.N.C.)
- ⊞ ACOUSTIC CEILING TILE (REFER TO FINISH LEGEND) (2x2)
- EC-01 EXPOSED CEILING, NO K13
- EC-02 EXPOSED CEILING, WITH 'LIGHT GREY' K13

**GENERAL NOTE:** ALL EXPOSED CONSTRUCTION SHALL BE PAINTED (PNT-02), INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL COLUMNS AND BEAMS, MISCELLANEOUS STEEL, SPRINKLER LINES, MECHANICAL EQUIPMENT, AND DUCTWORK. ANY WIRING CONDUIT ADJACENT TO PAINTED CONSTRUCTION SHALL BE PAINTED (PNT-02) TO MATCH THE ADJACENT SURFACE.



## G2 SECTION - TYP. GYPSUM WALL BOARD SOFFIT

A-702 SCALE: 1 1/2" = 1'-0"



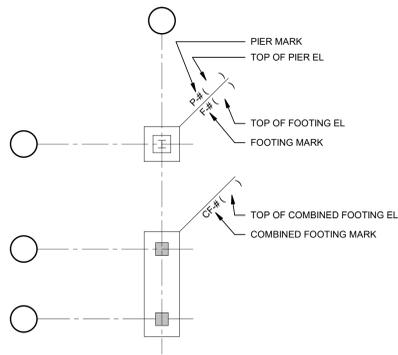
## A8 Reflected Ceiling Plan - Level 2

A-702 SCALE: 1/4" = 1'-0"



#	DESCRIPTION	DATE
5	Bid Set	02/07/2025

### 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)

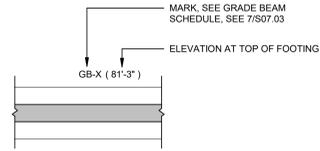
### MISCELLANEOUS SYMBOLS

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

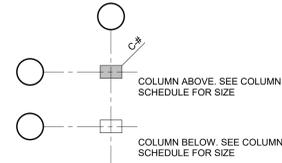
### ELEVATION SYMBOLS

- 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

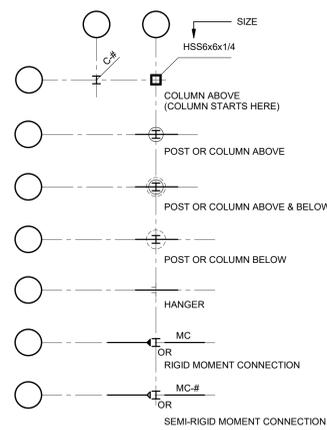
### GRADE BEAM/CONT FOOTING DESIGNATIONS



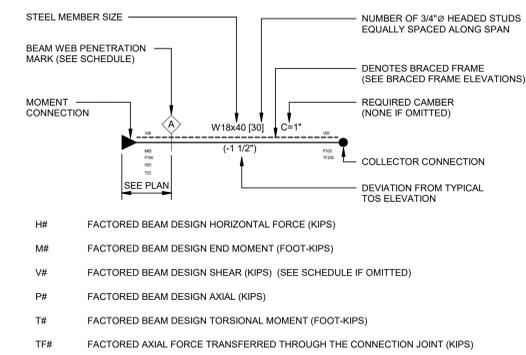
### CONCRETE COLUMN DESIGNATIONS



### STEEL COLUMN DESIGNATIONS



### STEEL BEAM DESIGNATIONS

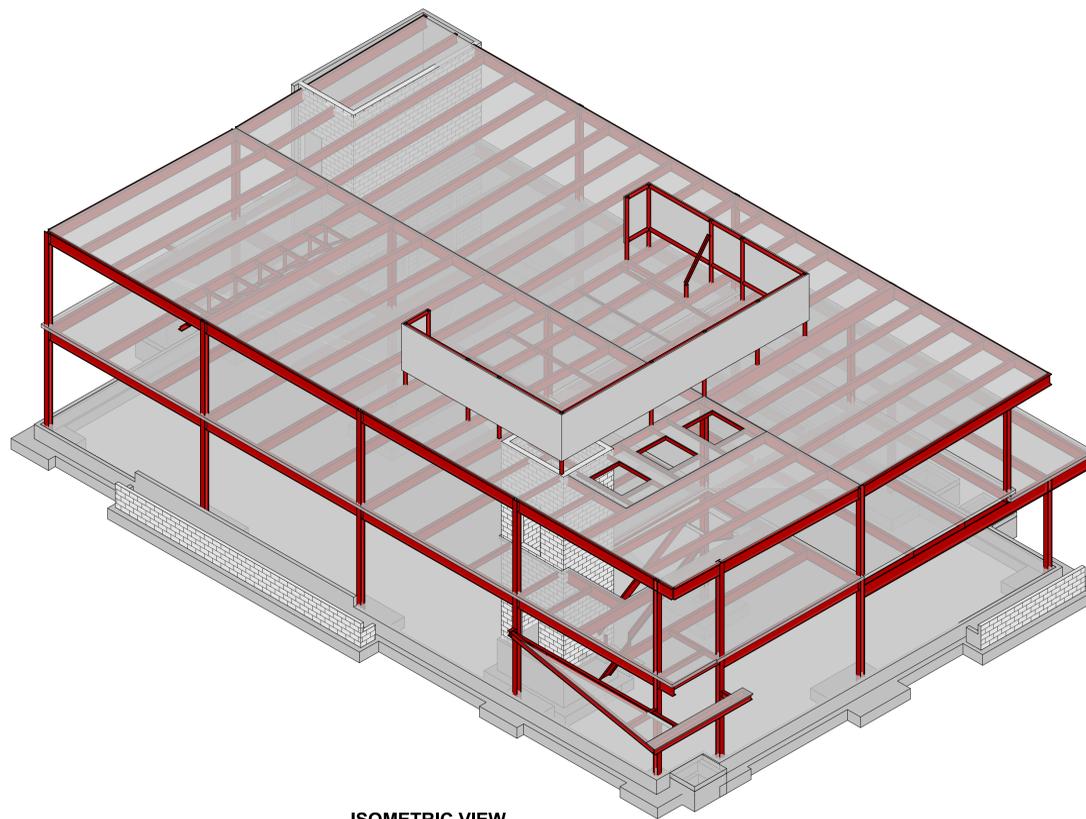


### DECK AND SLAB SYMBOLS

- RD-# THICKNESS IN INCHES; SPAN DIRECTION; ROOF DECK MARK
- CS-# THICKNESS IN INCHES; SPAN DIRECTION; COMPOSITE SLAB MARK
- FS-# THICKNESS IN INCHES; SPAN DIRECTION; 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





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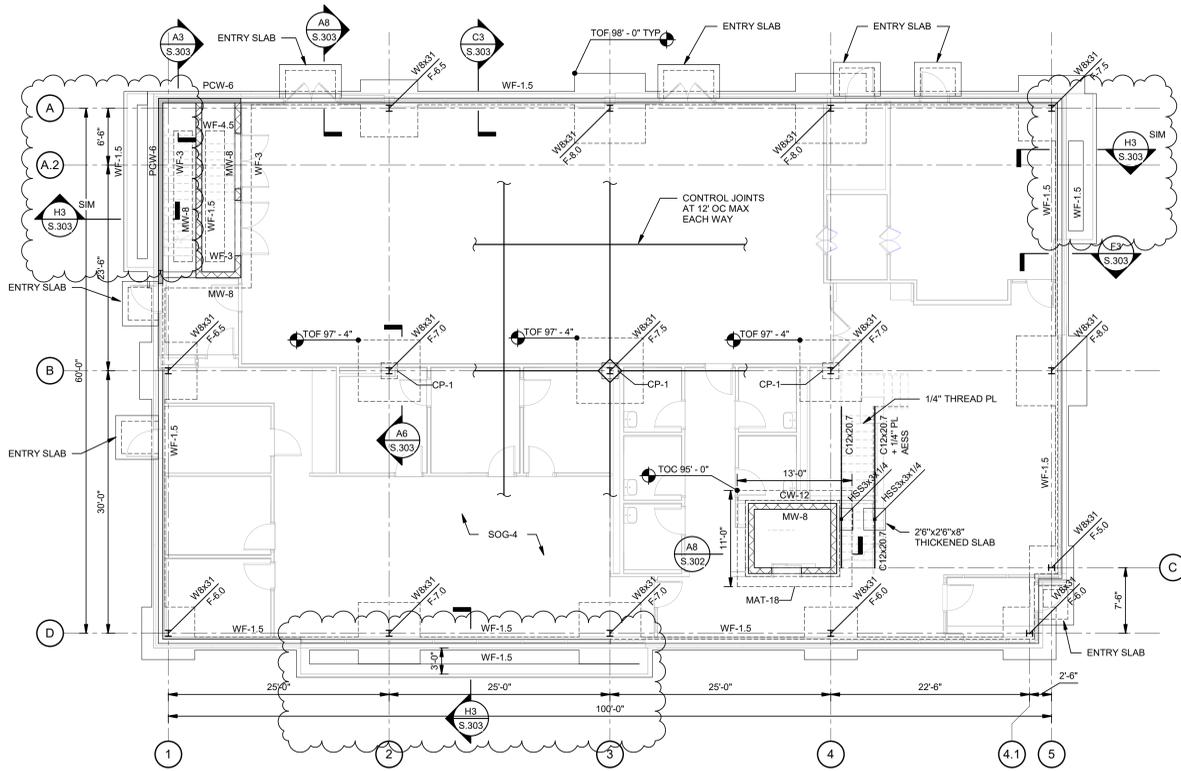
#	DESCRIPTION	DATE
5	Bldg Set	02/07/2025
6	Addendum #1	02/20/2025

KEY PLAN

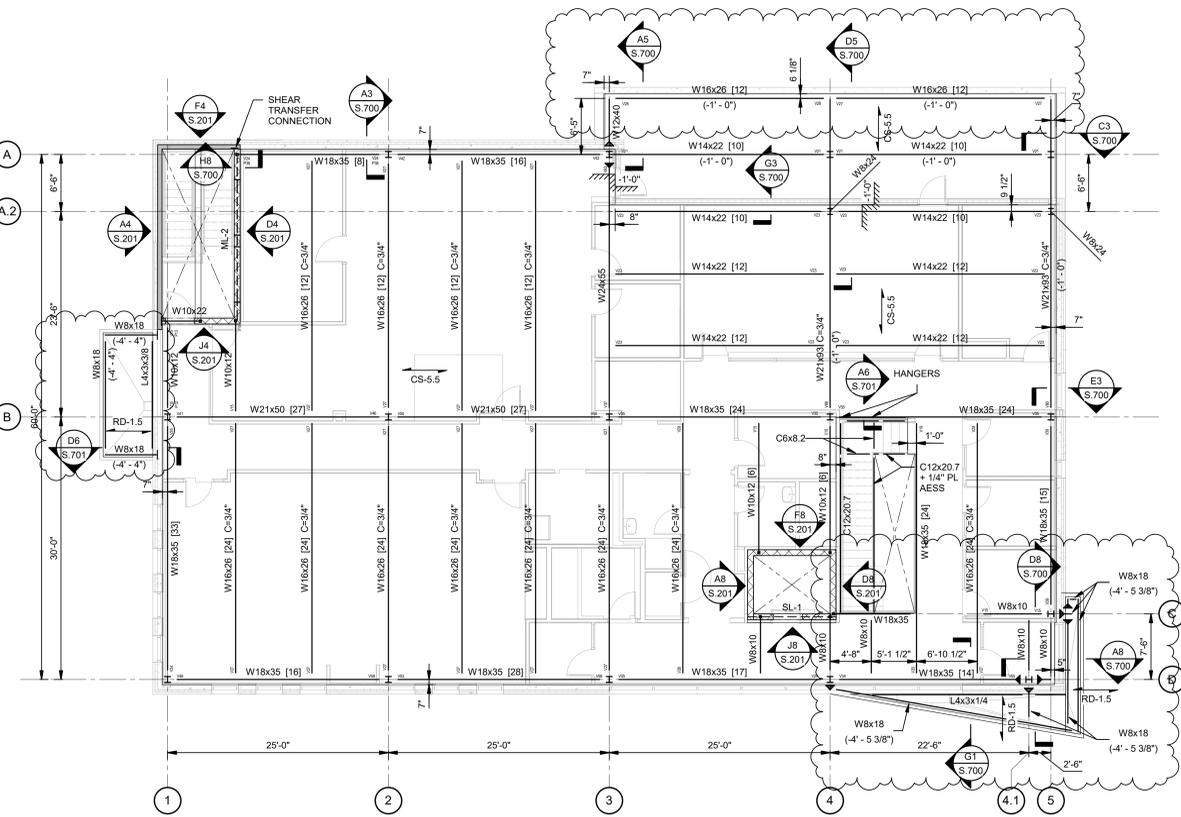
SHEET TITLE  
 FRAMING PLANS

PROJECT #  
 24094

SHEET #  
**S.101**



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



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

FOUNDATION/SLAB ON GRADE NOTES:

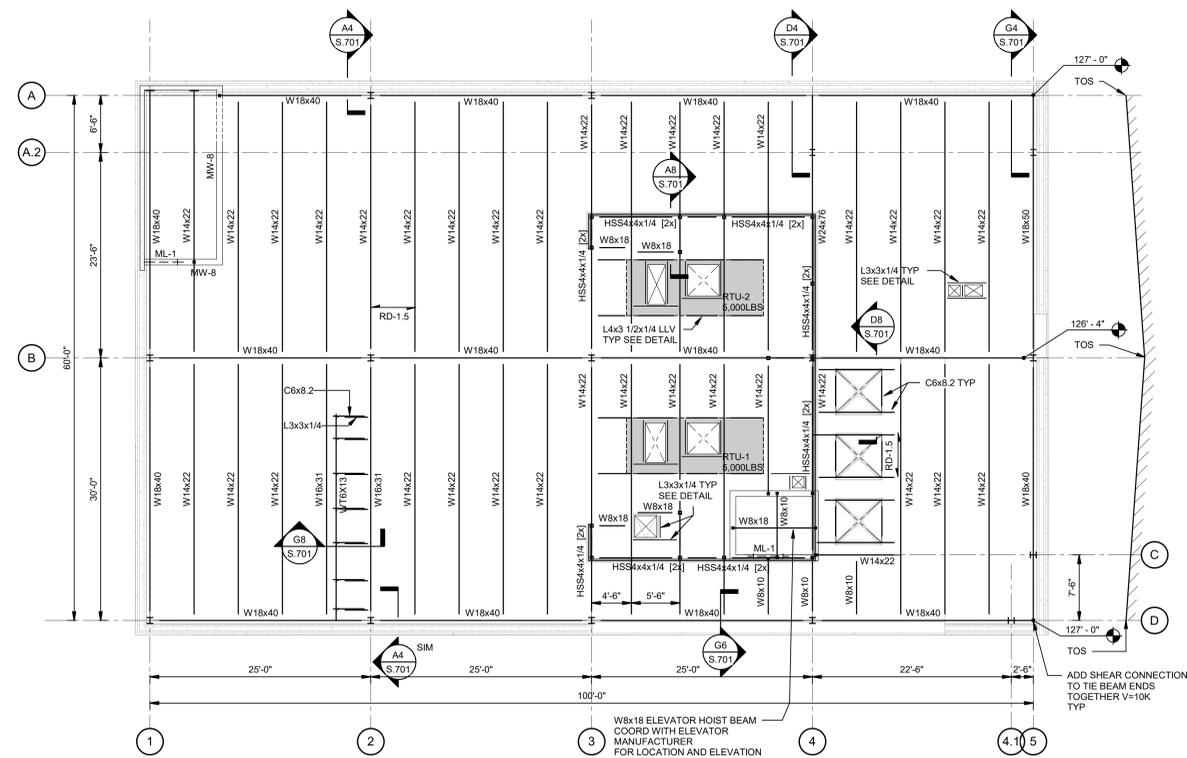
- REFERENCE ELEVATION 100'-0" ESTABLISHED ELEVATIONS: FINISH FIRST FLOOR EL 100'-0" UON, TOP OF FOOTING EL 98'-0" UON.
- SLAB ON GRADE TYPES: SOG-4: 4" CONCRETE SLAB ON GRADE WITH 4x4-W2.9 xW2.9 WWF PLACED 2" FROM TOP, VAPOR RETARDER ON 6" COMPACTED GRANULAR FILL.
- REFER TO THE FOLLOWING FOR ADDITIONAL 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-W2.1xW2.1 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.002 FOR GENERAL NOTES, 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.



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

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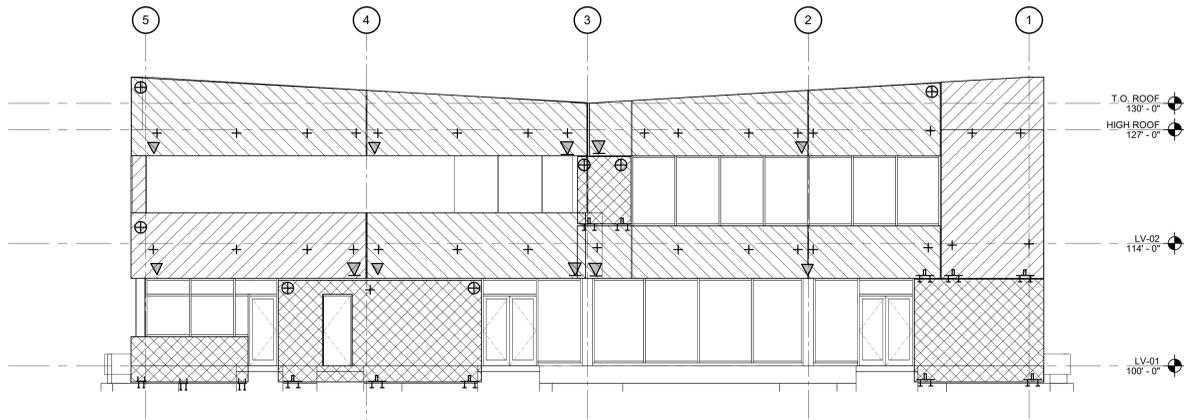
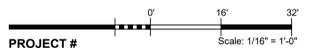
KEY PLAN

SHEET TITLE  
 BUILDING ELEVATIONS

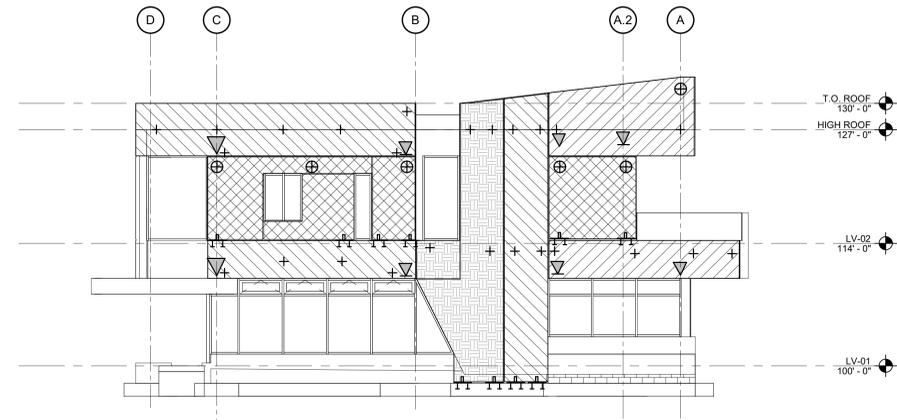
PROJECT #  
 24094

SHEET #

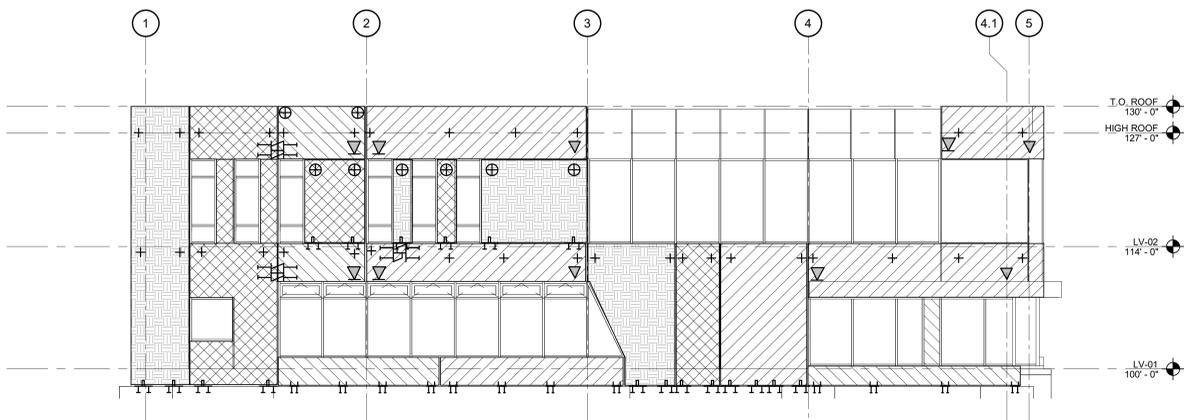
**S.200**



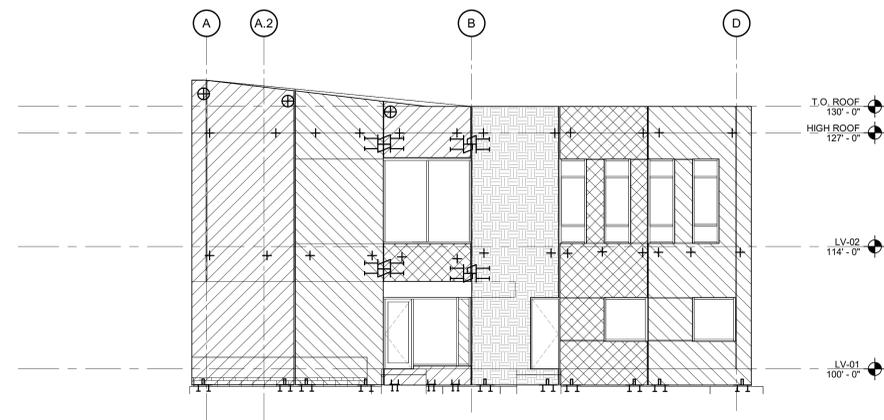
**A3 NORTH ELEVATION**  
 SCALE: 1/8\"/>



**G3 EAST ELEVATION**  
 SCALE: 1/8\"/>



**B7 SOUTH ELEVATION**  
 SCALE: 1/8\"/>



**G7 WEST ELEVATION**  
 SCALE: 1/8\"/>

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

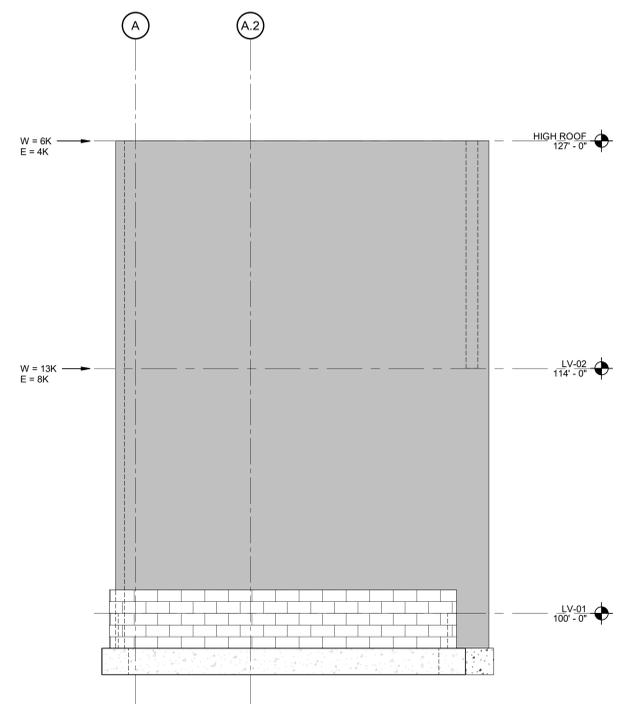
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SHEET #

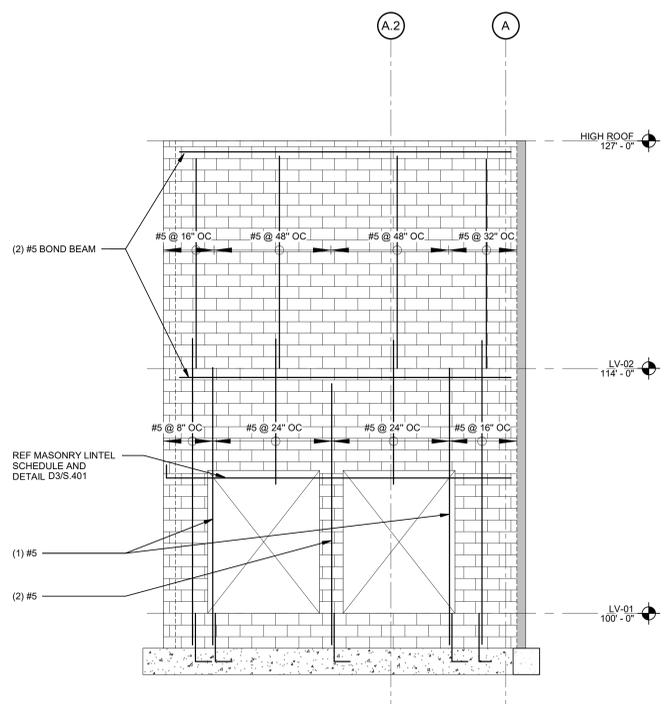
**S.201**

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

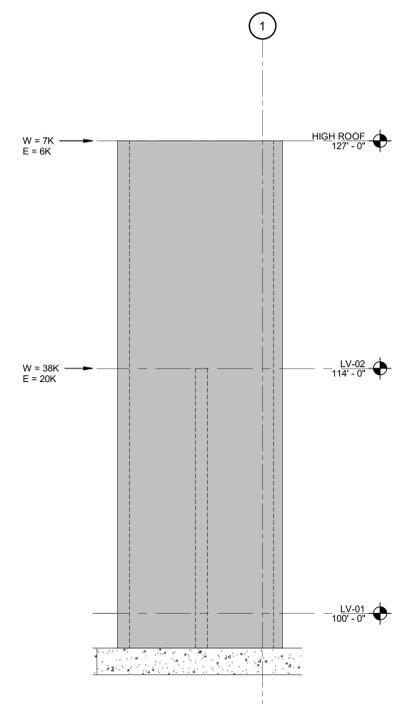
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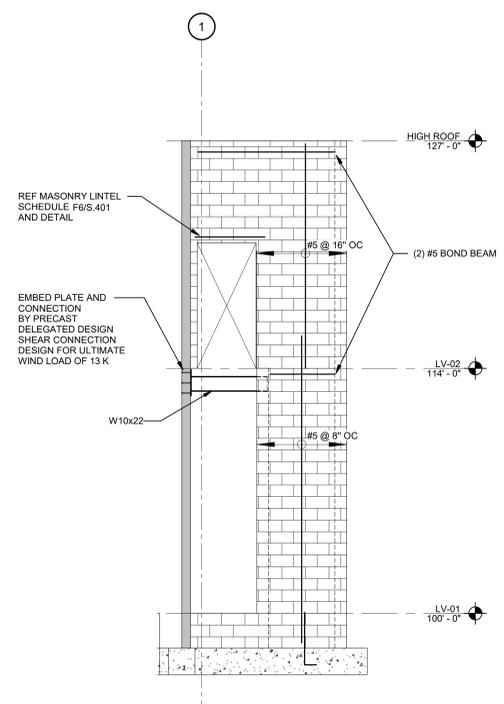
**A4**  
**S.101**  
 WEST WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



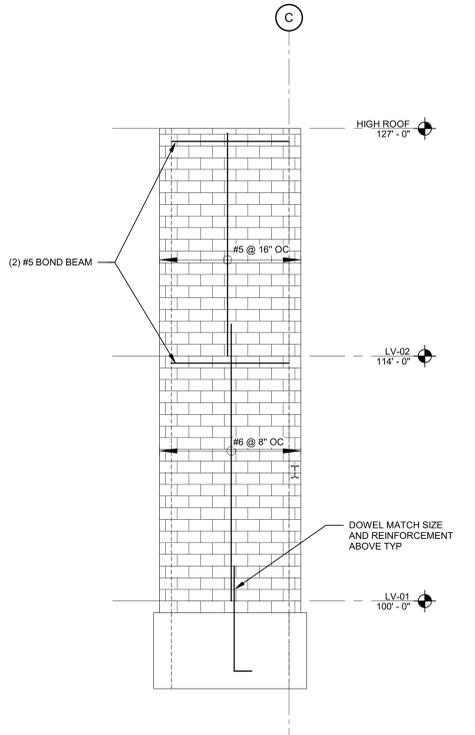
**D4**  
**S.101**  
 EAST WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



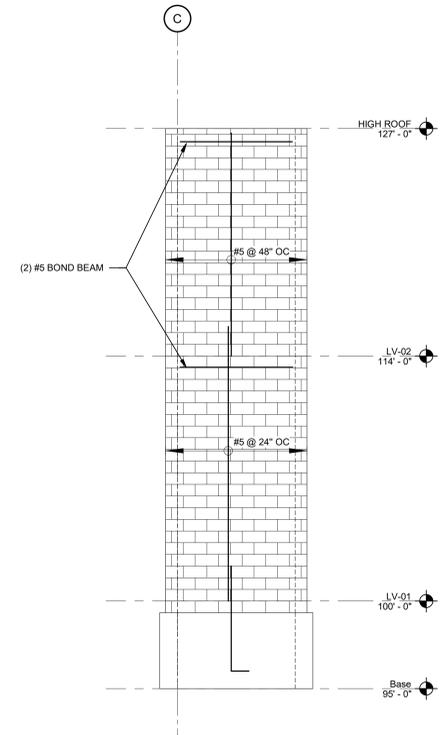
**F4**  
**S.101**  
 NORTH WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



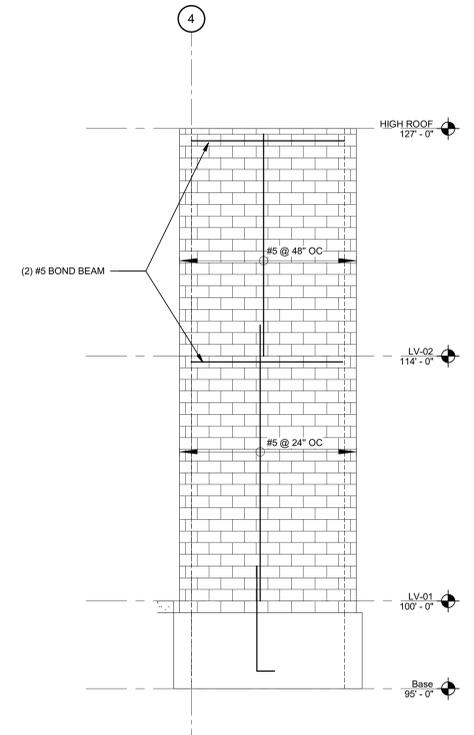
**J4**  
**S.101**  
 SOUTH WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



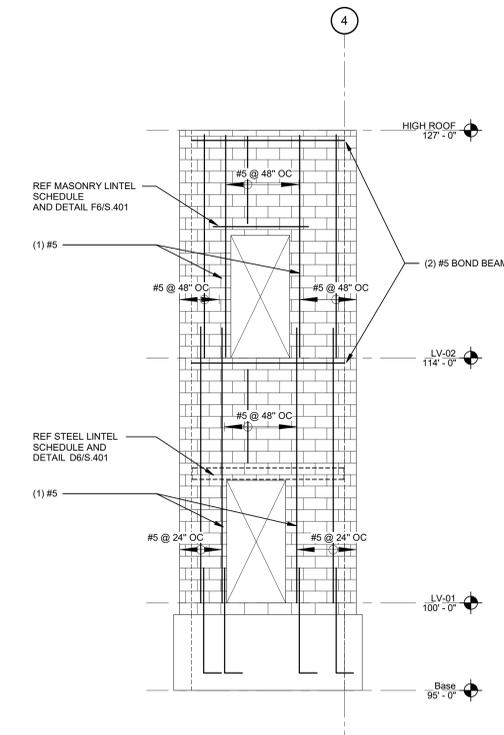
**A8**  
**S.101**  
 ELEVATOR WEST WALL ELEVATION  
 SCALE: 1/4" = 1'-0"



**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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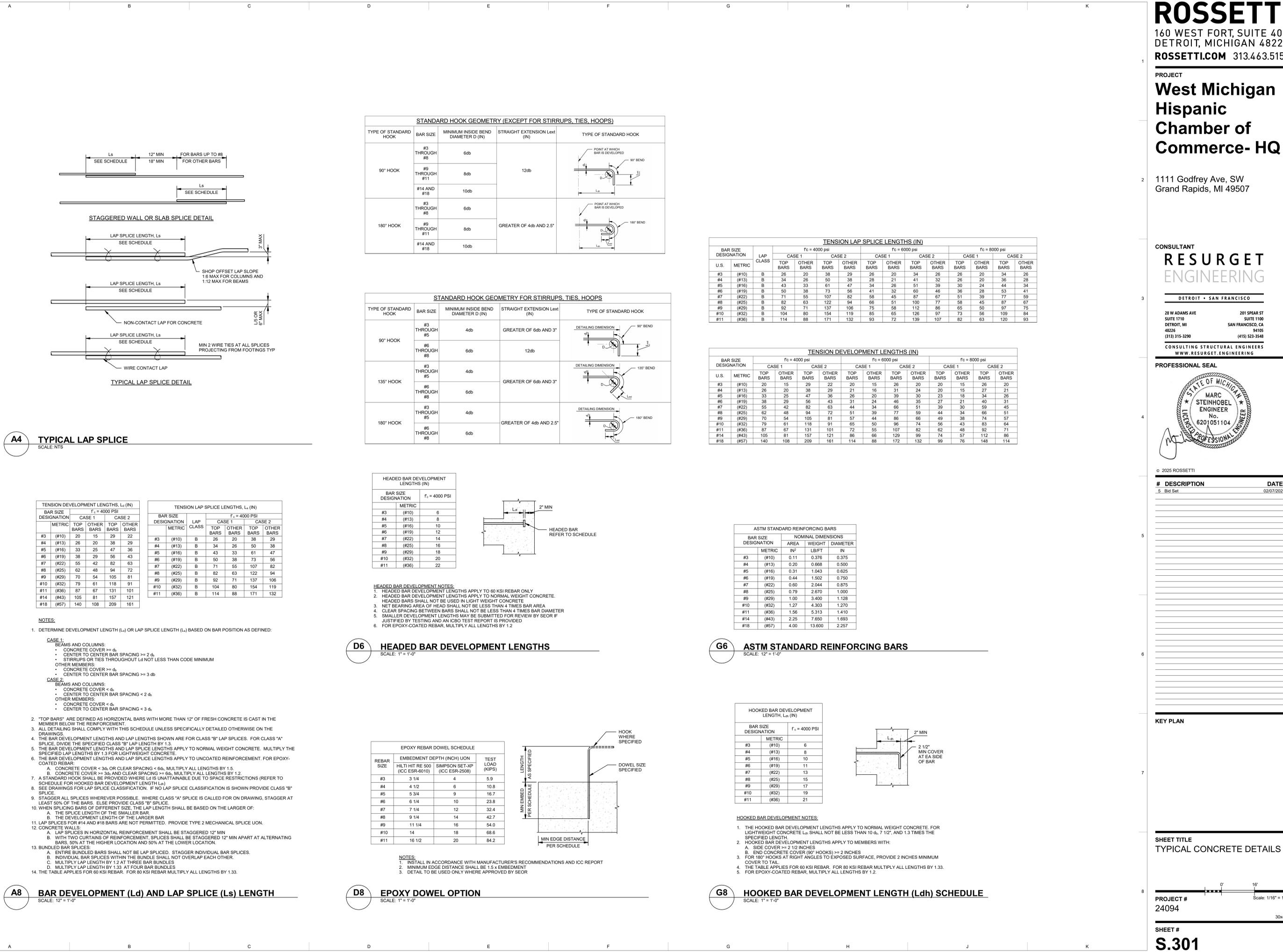
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5 Bid Set 02/07/2025

KEY PLAN

SHEET TITLE  
**TYPICAL CONCRETE DETAILS**

PROJECT #  
**24094**

SHEET #  
**S.301**



**STANDARD HOOK GEOMETRY (EXCEPT FOR STIRRUPS, TIES, HOOPS)**

TYPE OF STANDARD HOOK	BAR SIZE	MINIMUM INSIDE BEND DIAMETER D (IN)	STRAIGHT EXTENSION Lext (IN)	TYPE OF STANDARD HOOK
90° HOOK	#3 THROUGH #8	6db	12db	
	#9 THROUGH #11	8db		
	#14 AND #18	10db		
180° HOOK	#3 THROUGH #8	6db	GREATER OF 4db AND 2.5'	
	#9 THROUGH #11	8db		
	#14 AND #18	10db		

**STANDARD HOOK GEOMETRY FOR STIRRUPS, TIES, HOOPS**

TYPE OF STANDARD HOOK	BAR SIZE	MINIMUM INSIDE BEND DIAMETER D (IN)	STRAIGHT EXTENSION Lext (IN)	TYPE OF STANDARD HOOK
90° HOOK	#3 THROUGH #5	4db	GREATER OF 6db AND 3"	
	#6 THROUGH #8	6db		
	#9 THROUGH #11	8db		
135° HOOK	#3 THROUGH #5	4db	GREATER OF 6db AND 3"	
	#6 THROUGH #8	6db		
	#9 THROUGH #11	8db		
180° HOOK	#3 THROUGH #5	4db	GREATER OF 4db AND 2.5'	
	#6 THROUGH #8	6db		
	#9 THROUGH #11	8db		

**TENSION LAP SPLICE LENGTHS (IN)**

BAR SIZE DESIGNATION	LAP CLASS	f <sub>c</sub> = 4000 psi				f <sub>c</sub> = 6000 psi				f <sub>c</sub> = 8000 psi			
		CASE 1		CASE 2		CASE 1		CASE 2		CASE 1		CASE 2	
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3 (#10)	B	26	20	38	29	26	20	34	26	26	20	34	26
#4 (#13)	B	34	26	50	38	28	21	41	32	28	20	36	28
#5 (#16)	B	43	33	61	47	34	26	51	39	30	24	44	34
#6 (#19)	B	50	38	73	56	41	32	60	46	36	28	53	41
#7 (#22)	B	71	55	107	82	58	45	87	67	51	39	77	59
#8 (#25)	B	82	63	122	94	66	51	100	77	58	45	87	67
#9 (#29)	B	92	71	137	106	75	58	112	86	65	50	97	75
#10 (#32)	B	104	80	154	119	85	65	126	97	73	56	109	84
#11 (#36)	B	114	88	171	132	93	72	139	107	82	63	120	93

**TENSION DEVELOPMENT LENGTHS (IN)**

BAR SIZE DESIGNATION	f <sub>c</sub> = 4000 psi				f <sub>c</sub> = 6000 psi				f <sub>c</sub> = 8000 psi			
	CASE 1		CASE 2		CASE 1		CASE 2		CASE 1		CASE 2	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3 (#10)	20	15	29	22	20	15	26	20	15	26	20	
#4 (#13)	26	20	38	29	21	16	31	24	20	15	27	21
#5 (#16)	33	25	47	36	26	20	39	30	23	18	34	26
#6 (#19)	38	29	56	43	31	24	46	35	27	21	40	31
#7 (#22)	55	42	82	63	44	34	66	51	39	30	59	45
#8 (#25)	62	48	94	72	51	39	77	59	44	34	66	51
#9 (#29)	70	54	105	81	57	44	86	66	49	38	74	57
#10 (#32)	79	61	118	91	65	50	96	74	56	43	83	64
#11 (#36)	87	67	131	101	72	55	107	82	62	48	92	71
#14 (#43)	105	81	157	121	86	66	129	99	74	57	112	86
#18 (#57)	140	108	209	161	114	88	172	132	99	76	148	114

**HEADED BAR DEVELOPMENT LENGTHS (IN)**

BAR SIZE DESIGNATION	METRIC	f <sub>c</sub> = 4000 PSI
#3 (#10)	6	6
#4 (#13)	8	8
#5 (#16)	10	10
#6 (#19)	12	12
#7 (#22)	14	14
#8 (#25)	16	16
#9 (#29)	18	18
#10 (#32)	20	20
#11 (#36)	22	22

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

**ASTM STANDARD REINFORCING BARS**

BAR SIZE DESIGNATION	NOMINAL DIMENSIONS		
	AREA IN <sup>2</sup>	WEIGHT LB/FT	DIAMETER IN
	METRIC	IN	MM
#3 (#10)	0.11	0.378	0.375
#4 (#13)	0.20	0.668	0.500
#5 (#16)	0.31	1.043	0.625
#6 (#19)	0.44	1.502	0.750
#7 (#22)	0.60	2.044	0.875
#8 (#25)	0.79	2.670	1.000
#9 (#29)	1.00	3.400	1.128
#10 (#32)	1.27	4.303	1.270
#11 (#36)	1.56	5.313	1.410
#14 (#43)	2.25	7.650	1.693
#18 (#57)	4.00	13.600	2.257

**ASTM STANDARD REINFORCING BARS**

BAR SIZE DESIGNATION	NOMINAL DIMENSIONS		
	AREA IN <sup>2</sup>	WEIGHT LB/FT	DIAMETER IN
	METRIC	IN	MM
#3 (#10)	0.11	0.378	0.375
#4 (#13)	0.20	0.668	0.500
#5 (#16)	0.31	1.043	0.625
#6 (#19)	0.44	1.502	0.750
#7 (#22)	0.60	2.044	0.875
#8 (#25)	0.79	2.670	1.000
#9 (#29)	1.00	3.400	1.128
#10 (#32)	1.27	4.303	1.270
#11 (#36)	1.56	5.313	1.410
#14 (#43)	2.25	7.650	1.693
#18 (#57)	4.00	13.600	2.257

- HOOKEED BAR DEVELOPMENT NOTES:**
- THE HOOKEED BAR DEVELOPMENT LENGTHS APPLY TO NORMAL WEIGHT CONCRETE, FOR LIGHTWEIGHT CONCRETE L<sub>dh</sub> SHALL NOT BE LESS THAN 10 d<sub>b</sub>, 7 l<sub>12</sub>, AND 1.3 TIMES THE SPECIFIED LENGTH.
  - HOOKEED BAR DEVELOPMENT LENGTHS APPLY TO MEMBERS WITH:
    - SIDE COVER >= 2 1/2 INCHES
    - END CONCRETE COVER (90° HOOKS) >= 2 INCHES
  - FOR 180° HOOKS AT RIGHT ANGLES TO EXPOSED SURFACE, PROVIDE 2 INCHES MINIMUM COVER TO TAIL.
  - THE TABLE APPLIES FOR 60 KSI REBAR. FOR 80 KSI REBAR MULTIPLY ALL LENGTHS BY 1.33.
  - FOR EPOXY-COATED REBAR, MULTIPLY ALL LENGTHS BY 1.2.

**A4 TYPICAL LAP SPLICE**  
SCALE: NTS

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

**G6 ASTM STANDARD REINFORCING BARS**  
SCALE: 1/2" = 1'-0"

**A8 BAR DEVELOPMENT (L<sub>d</sub>) AND LAP SPLICE (L<sub>s</sub>) LENGTH**  
SCALE: 1/2" = 1'-0"

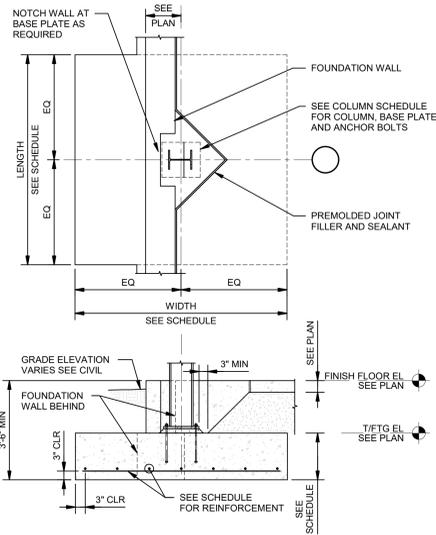
**D8 EPOXY DOWEL OPTION**  
SCALE: 1" = 1'-0"

**G8 HOOKEED BAR DEVELOPMENT LENGTH (L<sub>dh</sub>) SCHEDULE**  
SCALE: 1" = 1'-0"

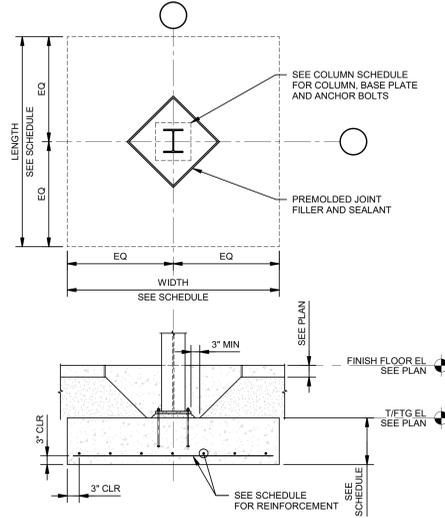
FOOTING SCHEDULE						
MARK	LENGTH	WIDTH	FOUNDATION THICKNESS	REINFORCEMENT EA WAY		COMMENTS
				TOP	BOTTOM	
F-5.0	5'-0"	5'-0"	1'-6"	(5)#5	(5)#5	
F-6.0	6'-0"	6'-0"	1'-6"	(6)#5	(6)#5	
F-6.5	6'-6"	6'-6"	1'-6"	(5)#6	(5)#6	
F-7.0	7'-0"	7'-0"	1'-6"	(9)#5	(9)#5	
F-7.5	7'-6"	7'-6"	1'-6"	(7)#6	(7)#6	
F-8.0	8'-0"	8'-0"	1'-6"	(8)#6	(8)#6	

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 @ 12" OC	

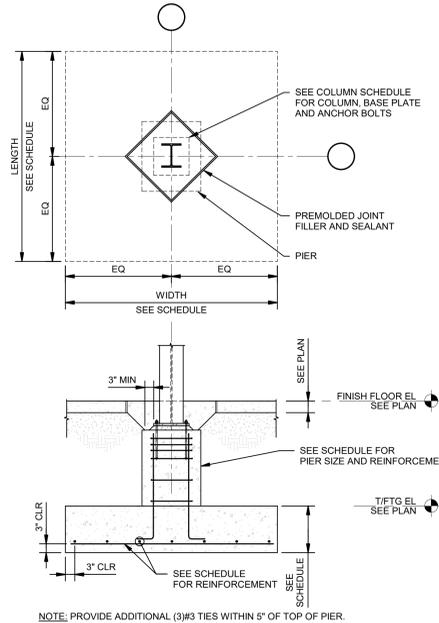
FORMED PIER SCHEDULE					
MARK	LENGTH	WIDTH	REINFORCEMENT		COMMENTS
			TYPE	TIES	
CP-1	1'-10"	1'-10"	C	#3 @ 12	



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

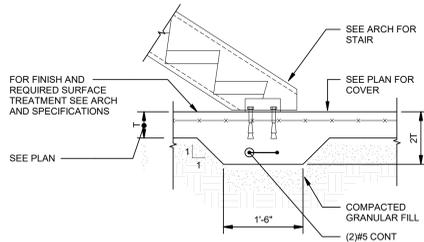


**C4** TYPICAL INTERIOR COLUMN FOOTING WITHOUT PIER  
SCALE: 1/2" = 1'-0"

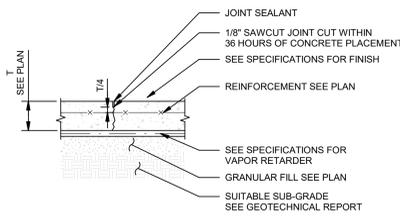


**1** TYPICAL INTERIOR COLUMN FOOTING WITH PIER  
SCALE: 1/2" = 1'-0"

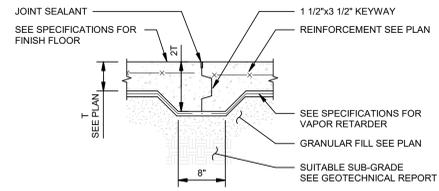
NOTE: PROVIDE ADDITIONAL (3)#3 TIES WITHIN 5" OF TOP OF PIER.



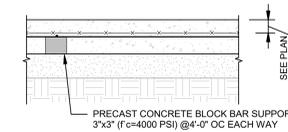
**A6** TYPICAL THICKENED SLAB AT BASE OF STAIRS  
SCALE: 3/4" = 1'-0"



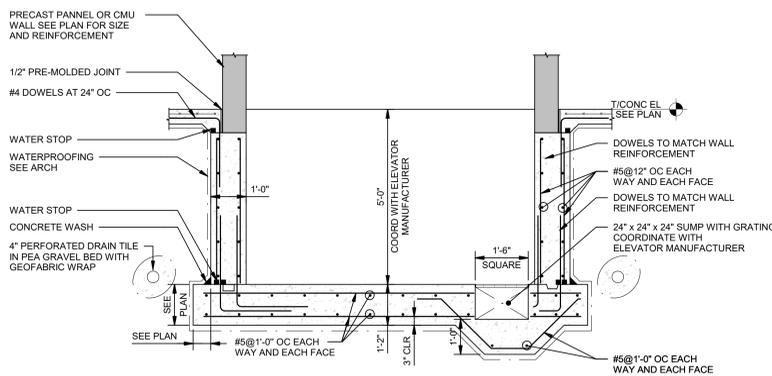
**C6** TYPICAL SLAB CONTROL JOINT  
SCALE: 1" = 1'-0"



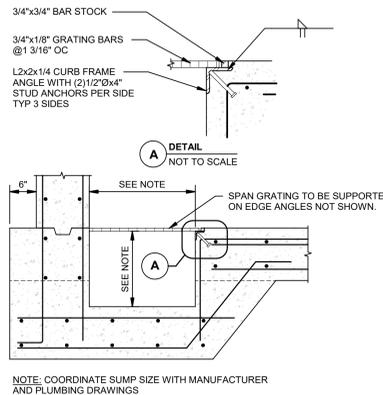
**F6** TYPICAL SLAB CONSTRUCTION JOINT  
SCALE: 1" = 1'-0"



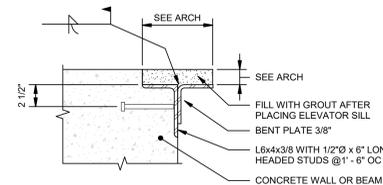
**H6** TYPICAL WWF MESH SUPPORT FOR SLAB ON GRADE  
SCALE: 3/4" = 1'-0"



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

#### SHEET # S.302

30x42

PROJECT

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6	Addendum #1	02/20/2025

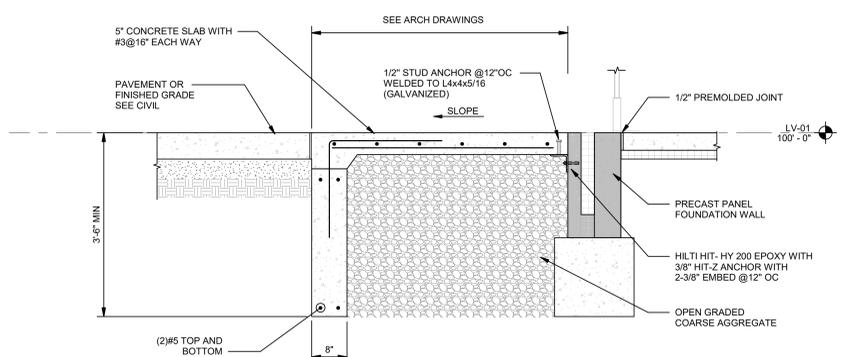
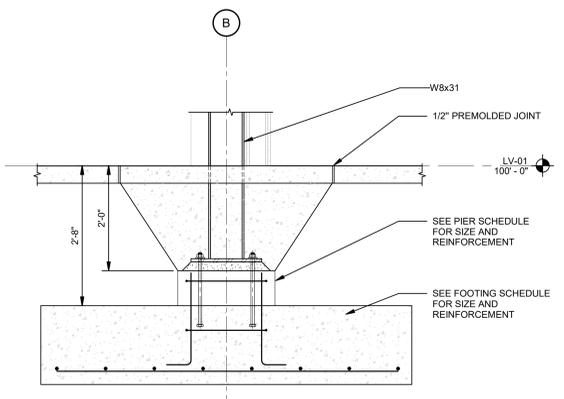
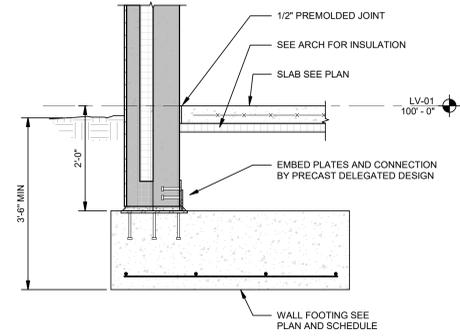
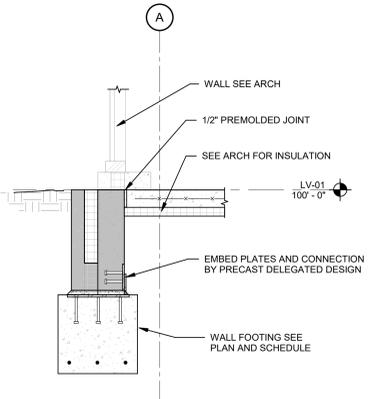
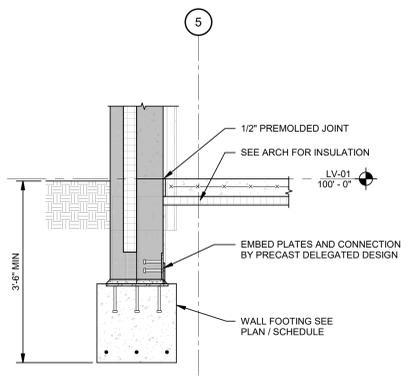
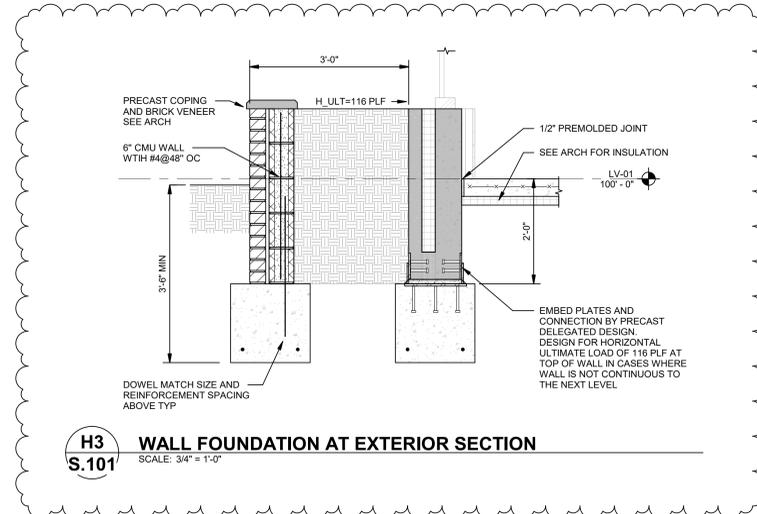
KEY PLAN

SHEET TITLE  
FOUNDATION SECTIONS

PROJECT #  
24094

SHEET #

**S.303**



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

Autodesk Docs://West Mich Hispanic Chamber of Commerce/24094/STRUCT/22-WMH-COC.rvt 2/20/2025 2:21:47 PM

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#### KEY PLAN

#### SHEET TITLE MASONRY SECTIONS AND DETAILS

PROJECT #  
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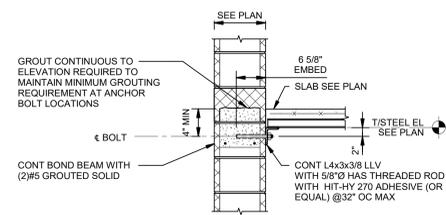
SHEET #

## S.401

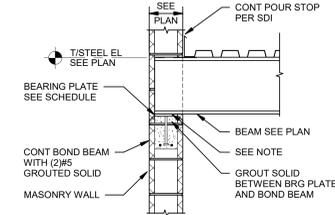
BEAM SIZE	SIZE	NO. OF 1/2"Ø x 6" LONG STUD ACHORS	REMARKS
WB	1/4"x6"x6"	2	-
W10-W12	3/8"x6"x6"	2	-
W16-W18	3/8"x7"x7"	2	-

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

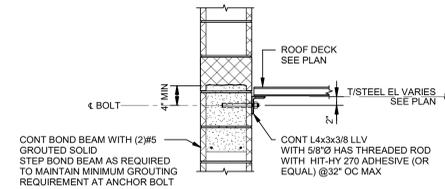
MARK	NOMINAL WALL THICKNESS	FLOOR	HORIZONTAL REINFORCING	MIN VERTICAL REINFORCING	
				1 LAYER	END REINFORCING
MW-8	8"	1ST-2ND	W1.7 LADDER JOINT @ 16" OC	#5 @ 24" OC	(1) # 5 BARS
MW-8	8"	2ND-ROOF	W1.7 LADDER JOINT @ 16" OC	#5 @ 48" OC	(1) # 5 BARS



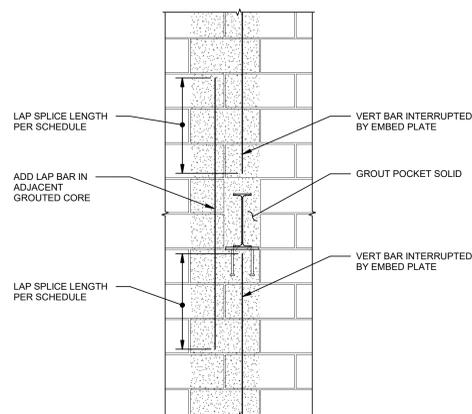
**A3** TYPICAL FLOOR SLAB BEARING ANGLE ON CMU WALL DETAIL  
SCALE: 3/4" = 1'-0"



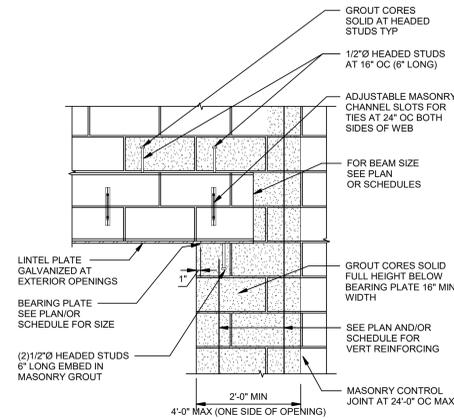
**D3** TYPICAL STEEL BEAM BEARING ON CMU WALL  
SCALE: 3/4" = 1'-0"



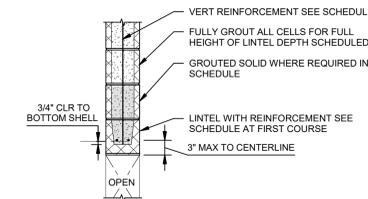
**F3** TYPICAL ROOF DECK BEARING ANGLE ON CMU WALL DETAIL  
SCALE: 3/4" = 1'-0"



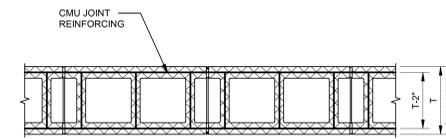
**A6** TYPICAL BEAM BEARING DETAIL  
SCALE: 3/4" = 1'-0"



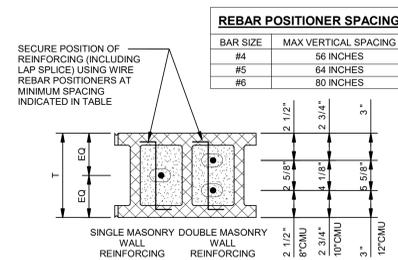
**D6** TYPICAL LINTEL BEARING DETAIL  
SCALE: 3/4" = 1'-0"



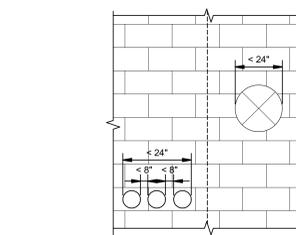
**F6** TYPICAL CMU SILL AND LINTEL DETAIL  
SCALE: 3/4" = 1'-0"



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



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



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

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KEY PLAN

SHEET TITLE  
STEEL SECTIONS AND  
DETAILS

PROJECT #  
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SHEET #

# S.501

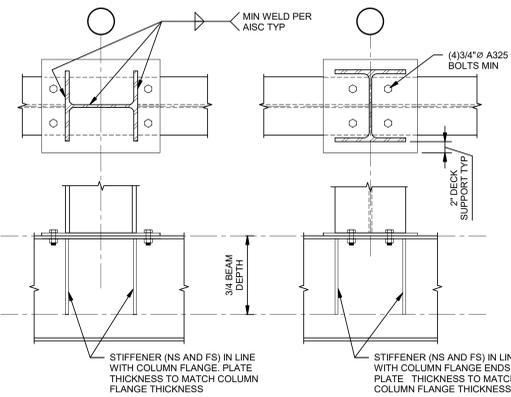
BEAM/GIRDER	PLATE TYPE	EMBED PLATE SIZE			MIN WALL THICKNESS	NUMBER OF STUDS	NUMBER OF ROWS	LRFD CAPACITY (Kips)	
		W (in)	H (in)	T (in)				$\phi_c=3000$ psi	$\phi_c=4000$ psi
W8 THRU W10	A	16	16	1/2	10"	4	2	22	25
W12 THRU W14	A	16	20	1/2	10"	4	2	29	34
W16 THRU W18	B	18	24	1/2	10"	9	3	50	55
W21 THRU 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  $\epsilon$  IS NOT CENTERED WITH PLATE.  
4. MINIMUM EDGE DISTANCES:  
• Laterally from side of plate = 14"  
• Vertically below bottom of plate = 18"

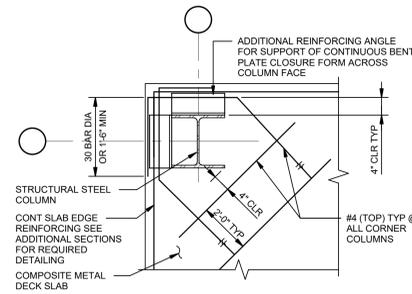
**A3** EMBED PLATES TYPES AND SCHEDULE  
SCALE: 1/2" = 1'-0"

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

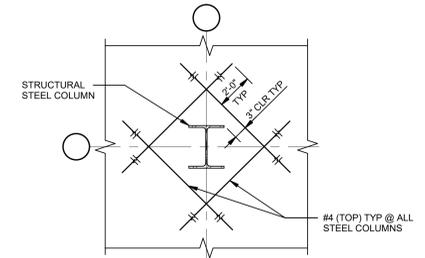
**F3** TYPICAL JOIST TO BEAM CONNECTION  
SCALE: 3/4" = 1'-0"



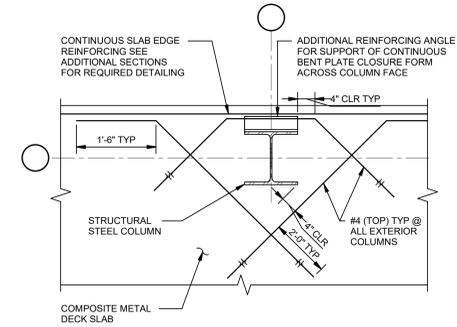
**A5** BASE PLATE DETAIL TYPE - B  
SCALE: 1" = 1'-0"



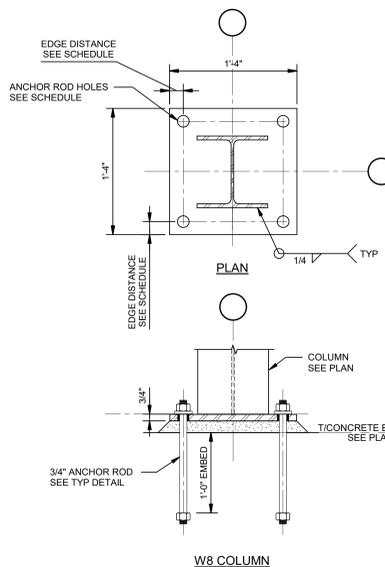
**D5** TYPICAL COMPOSITE SLAB CORNER COLUMN DETAIL  
SCALE: 3/4" = 1'-0"



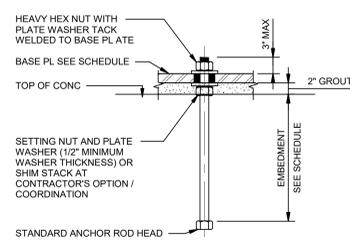
**F5** TYPICAL COMPOSITE SLAB COLUMN DETAIL  
SCALE: 3/4" = 1'-0"



**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"

Column Location	BP TYPE	BP SIZE	AR SIZE	AR EMBED
A-2, A-3, C-5, D-1, D-2, D-3, D-4, D-4-1	A	16x16x3/4	(4) 3/4"	1'-0"
A-4	A	16x16x3/4	(4) 3/4"	1'-0"
A-5	A	16x16x3/4	(4) 3/4"	1'-0"
A-2.4	B	10x16x3/4	(4) 3/4" A325	-
A-2.5	B	10x16x3/4	(4) 3/4" A325	-
B-1, B-2, B-3, B-4, B-5	A	16x16x3/4	(4) 3/4"	1'-0"

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

30x42

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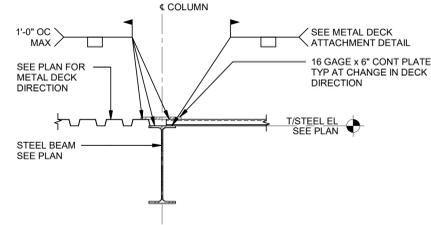
#### KEY PLAN

#### SHEET TITLE STEEL SECTIONS AND DETAILS

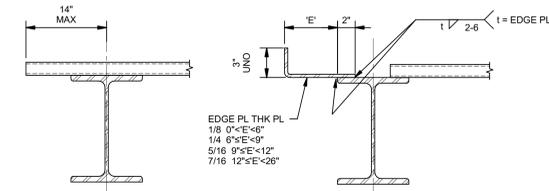
PROJECT #  
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SHEET #

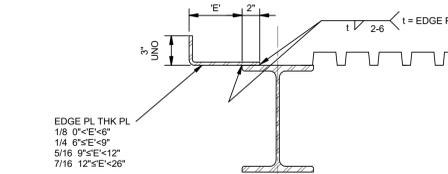
# S.502



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

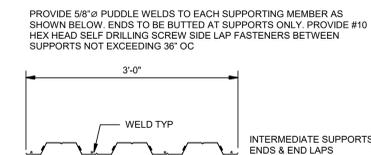


DECK PERPENDICULAR TO BM

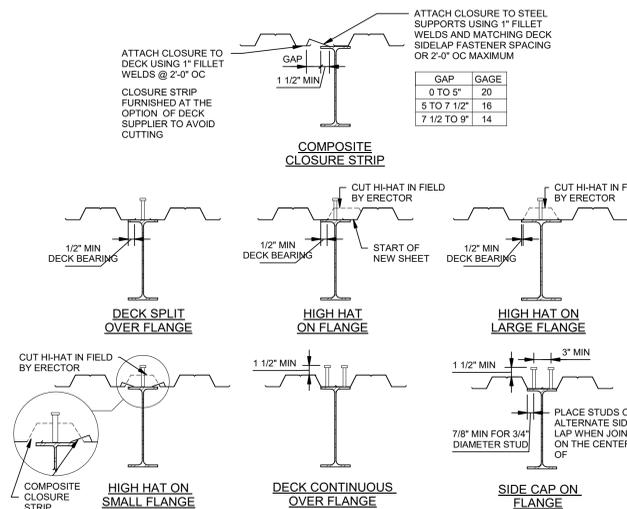


DECK PARALLEL TO BM

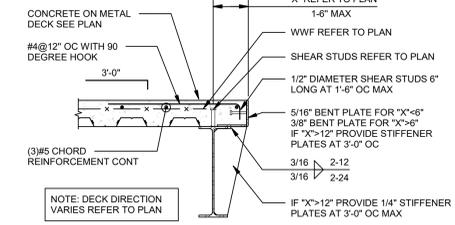
**F4** TYPICAL EDGE W/OUT FILL  
SCALE: 1 1/2" = 1'-0"



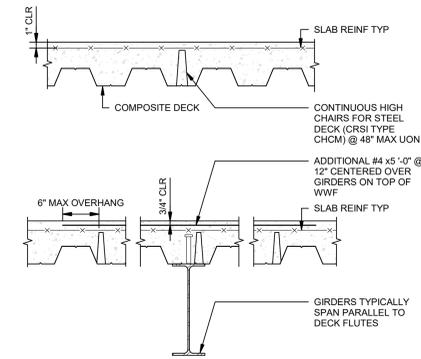
**F6** TYPICAL 2" METAL FLOOR DECK ATTACHMENT DETAIL  
SCALE: 1" = 1'-0"



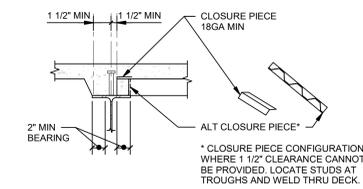
**F8** TYPICAL COMPOSITE DECK DETAILS AT GIRDER  
SCALE: 1" = 1'-0"



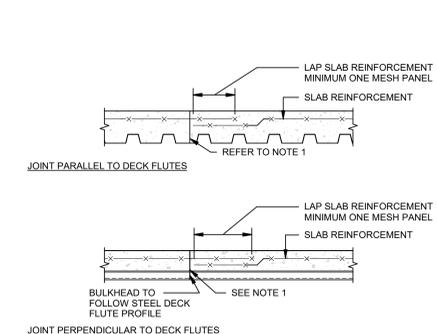
**H2** TYPICAL COMPOSITE SLAB EDGE  
SCALE: 3/4" = 1'-0"



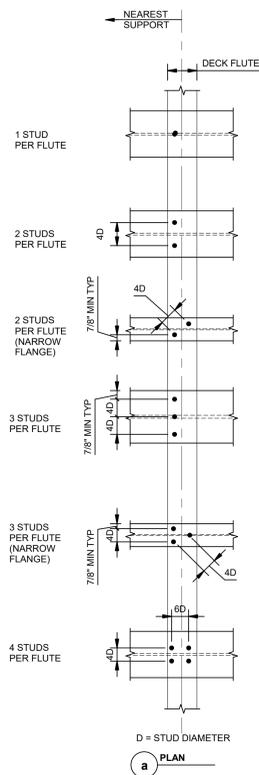
**H4** TYPICAL COMPOSITE SLAB REINFORCEMENT DETAIL  
SCALE: 1" = 1'-0"



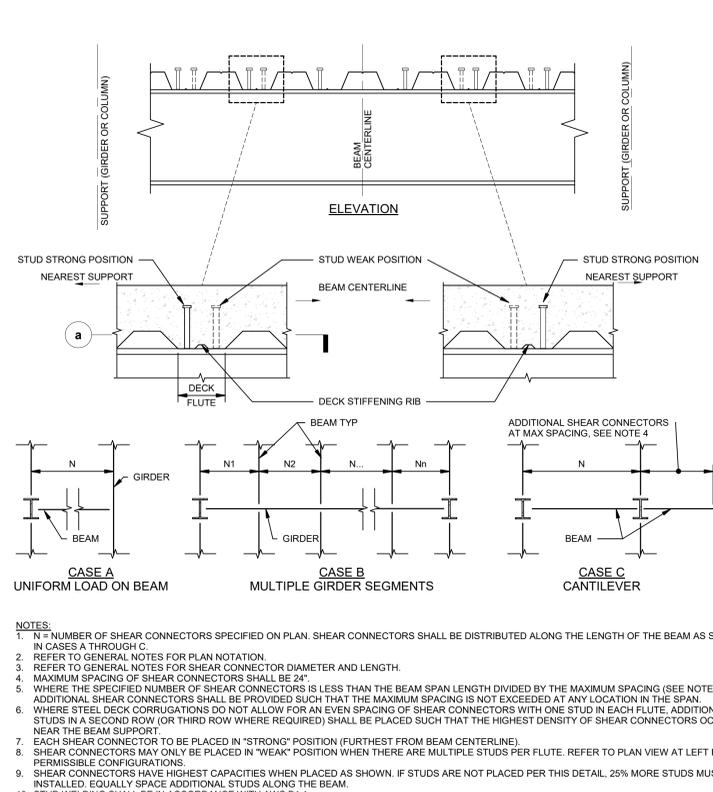
**H6** STUD AT CHANGE OF DECK DIRECTION  
SCALE: 1" = 1'-0"



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



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



- NOTES:**
- N = NUMBER OF SHEAR CONNECTORS SPECIFIED ON PLAN. SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG THE LENGTH OF THE BEAM AS SHOWN IN CASES A THROUGH C.
  - REFER TO GENERAL NOTES FOR PLAN NOTATION.
  - REFER TO GENERAL NOTES FOR SHEAR CONNECTOR DIAMETER AND LENGTH.
  - MAXIMUM SPACING OF SHEAR CONNECTORS SHALL BE 24".
  - WHERE THE SPECIFIED NUMBER OF SHEAR CONNECTORS IS LESS THAN THE MAXIMUM SPACING IS NOT EXCEEDED AT ANY LOCATION IN THE SPAN. ADDITIONAL SHEAR CONNECTORS SHALL BE PROVIDED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
  - WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (OR THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
  - EACH SHEAR CONNECTOR TO BE PLACED IN "STRONG" POSITION (FURTHEST FROM BEAM CENTERLINE).
  - SHEAR CONNECTORS MAY ONLY BE PLACED IN "WEAK" POSITION WHEN THERE ARE MULTIPLE STUDS PER FLUTE. REFER TO PLAN VIEW AT LEFT FOR PERMISSIBLE CONFIGURATIONS.
  - SHEAR CONNECTORS HAVE HIGHEST CAPACITIES WHEN PLACED AS SHOWN. IF STUDS ARE NOT PLACED PER THIS DETAIL, 25% MORE STUDS MUST BE INSTALLED. EQUALLY SPACE ADDITIONAL STUDS ALONG THE BEAM.
  - STUD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1.

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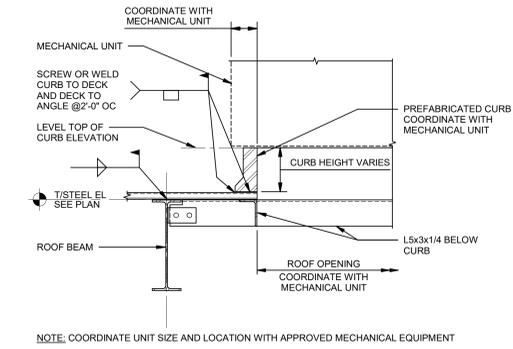
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5	Bid Set	02/07/2025

KEY PLAN

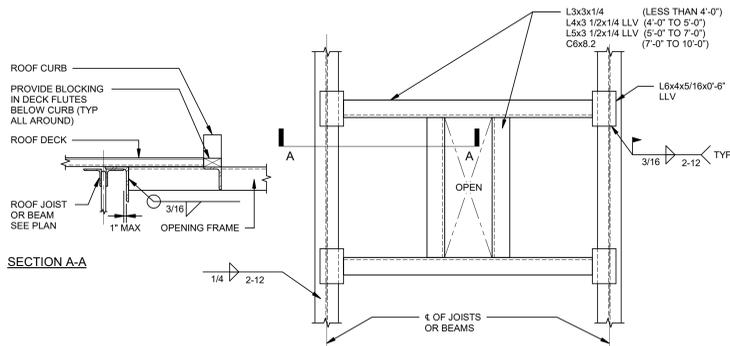
SHEET TITLE  
 STEEL SECTIONS AND  
 DETAILS

PROJECT #  
 24094

SHEET #  
**S.503**



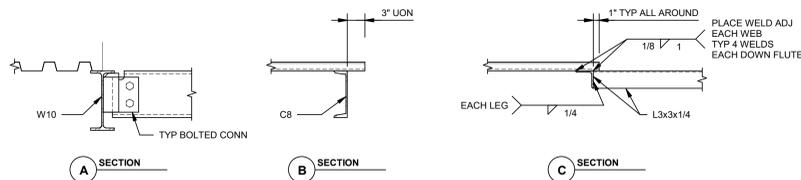
**A2 LIGHT WEIGHT MECHANICAL UNIT PRE-FAB CURB AT BEAM**  
 SCALE: 3/4" = 1'-0"



- 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.

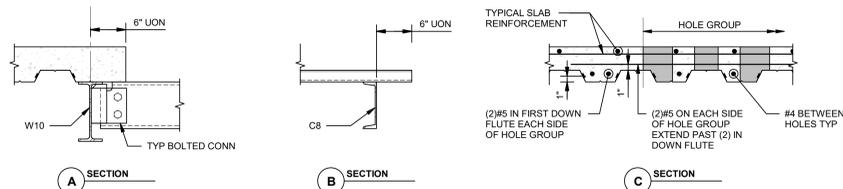
**A4 TYP ROOF OPENING AND RTU SUPPORT FRAME**  
 SCALE: 1" = 1'-0"

- 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.



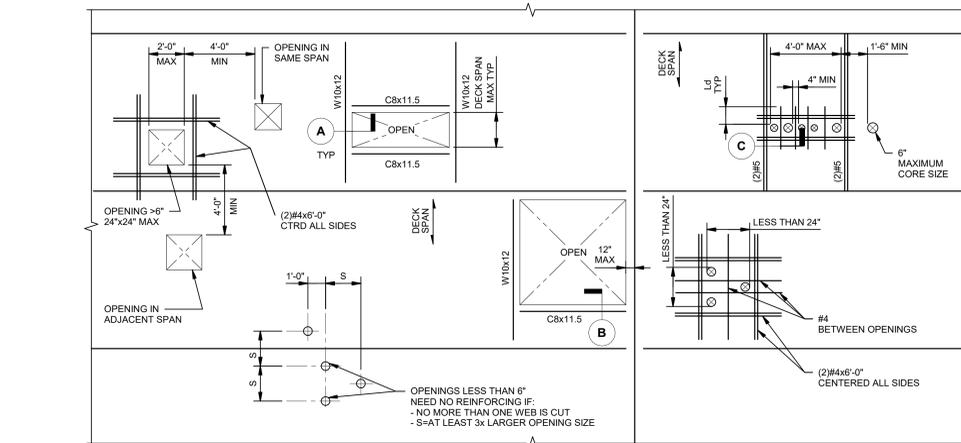
**A6 OPENINGS IN METAL DECK**  
 SCALE: 1" = 1'-0"

- 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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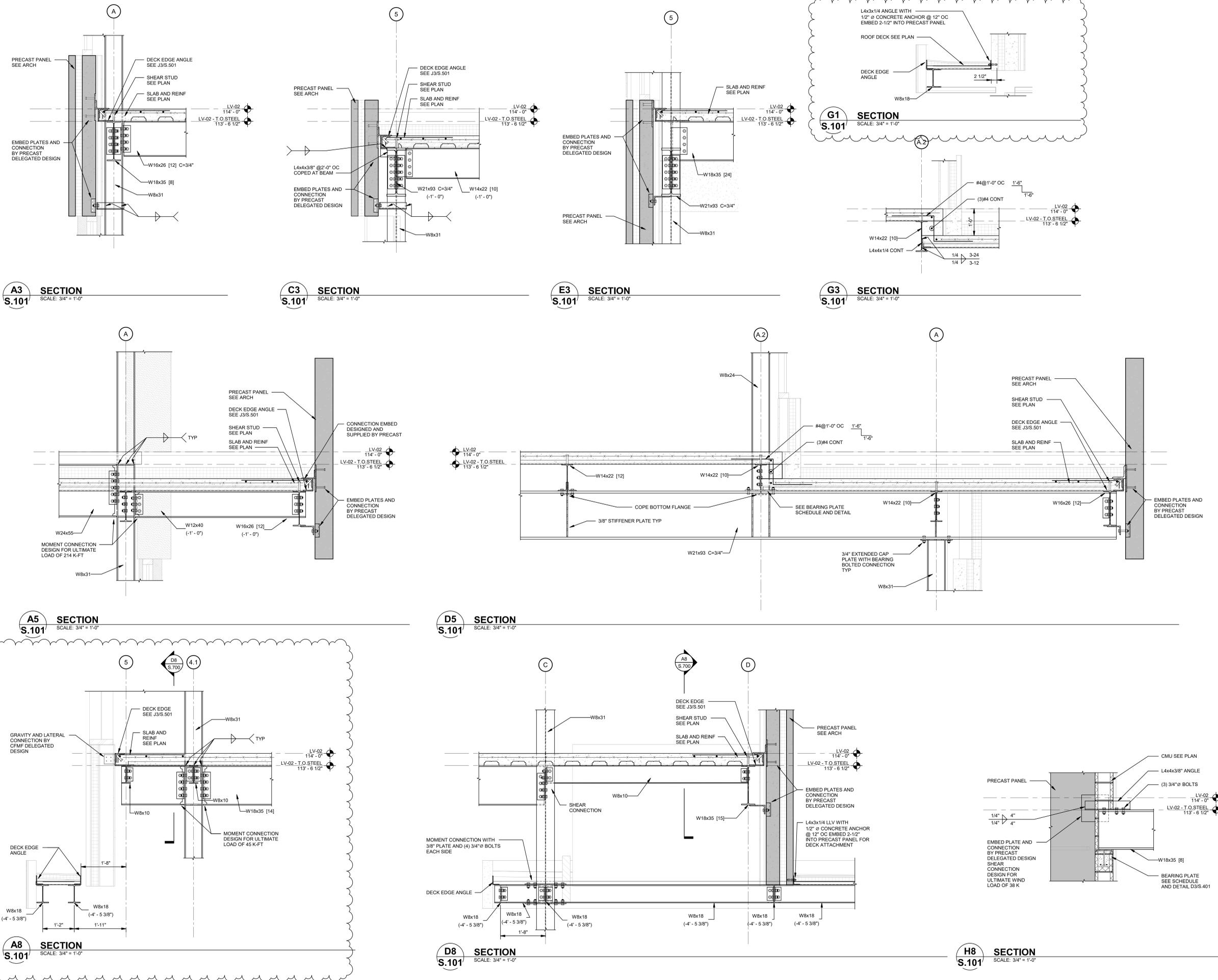
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5	Bld Set	02/07/2025
6	Addendum #1	02/20/2025

KEY PLAN

SHEET TITLE  
SECTIONS AND DETAILS

PROJECT #  
24094

SHEET #  
**S.700**



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6	Addendum #1	02/20/2025

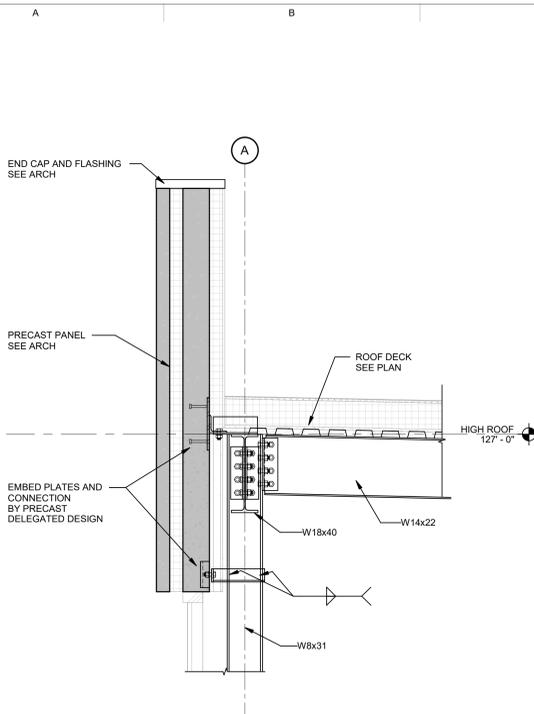
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SHEET TITLE  
SECTIONS AND DETAILS

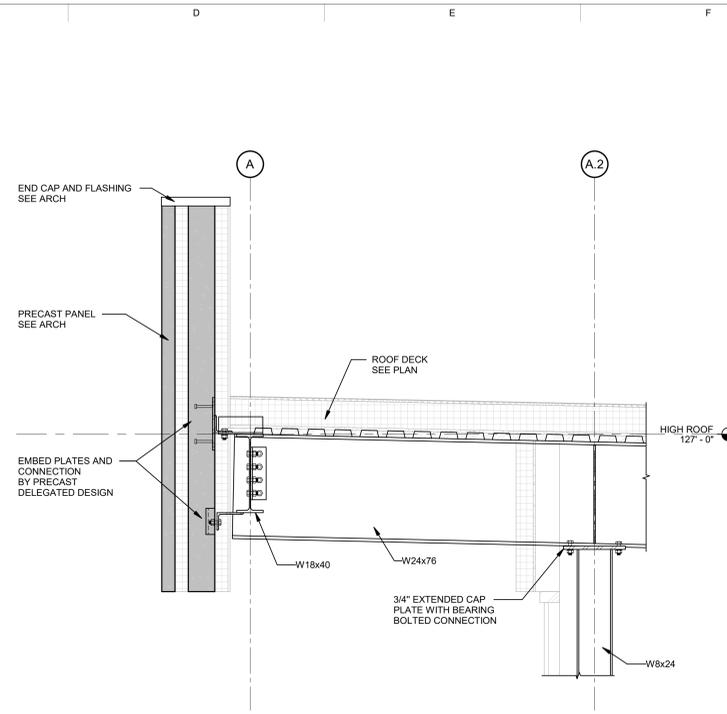
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24094

SHEET #

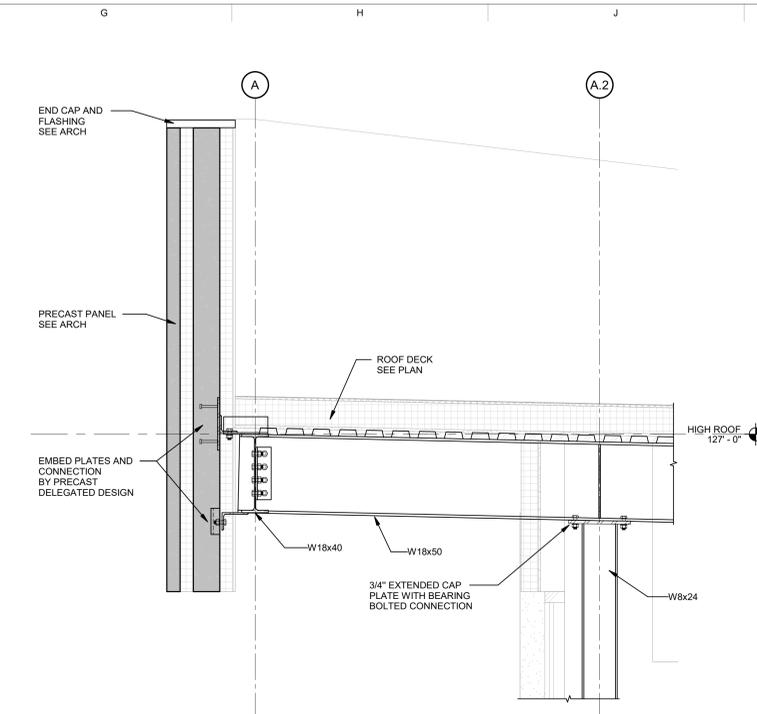
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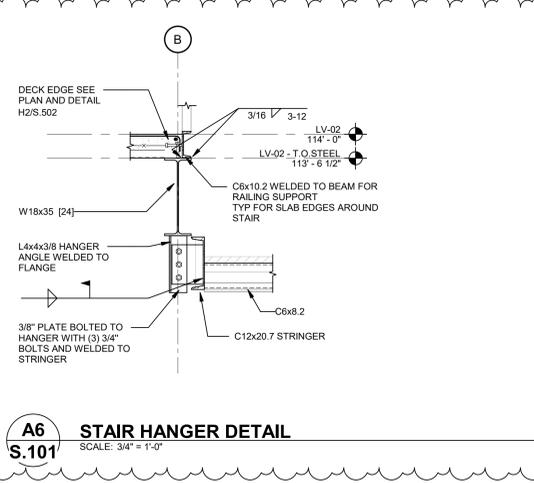
**A4** SECTION  
**S.101** SCALE: 3/4" = 1'-0"



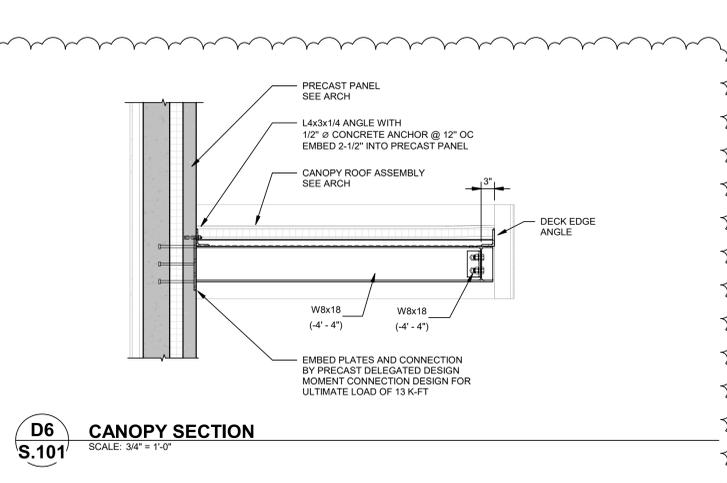
**D4** SECTION  
**S.101** SCALE: 3/4" = 1'-0"



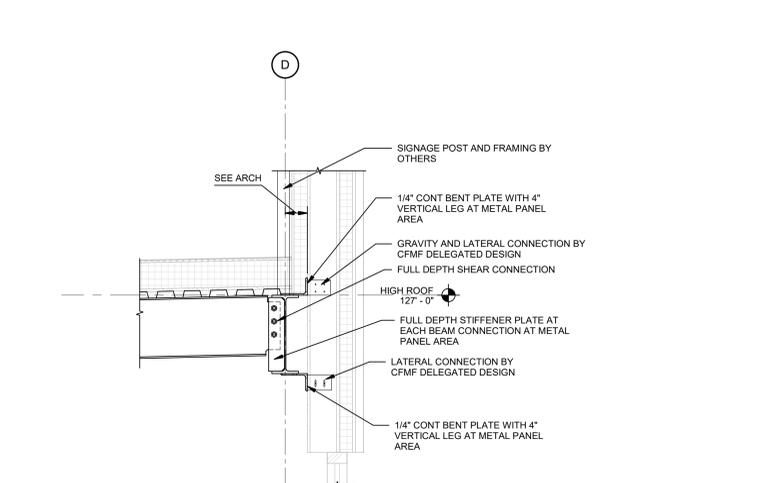
**G4** SECTION  
**S.101** SCALE: 3/4" = 1'-0"



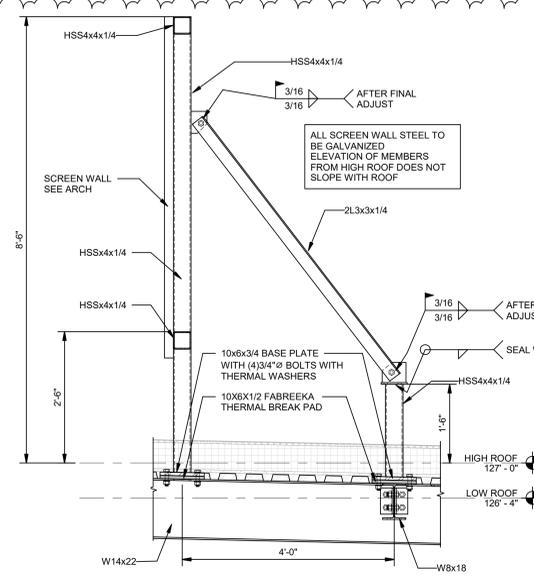
**A6** STAIR HANGER DETAIL  
**S.101** SCALE: 3/4" = 1'-0"



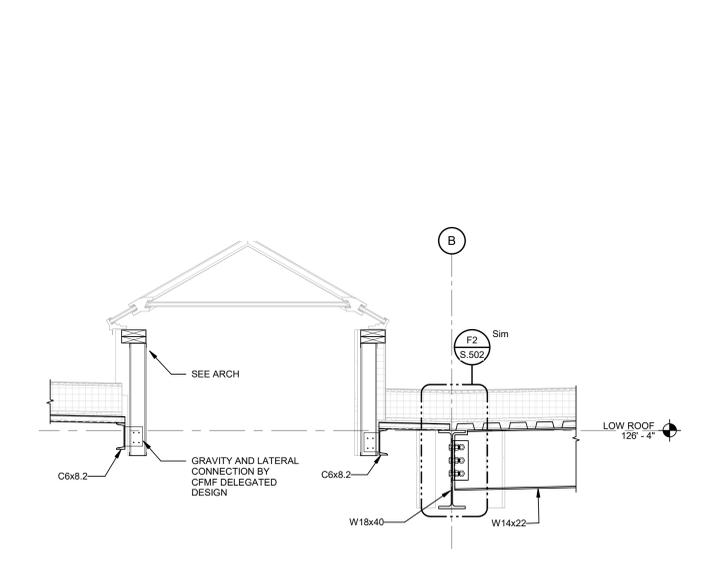
**D6** CANOPY SECTION  
**S.101** SCALE: 3/4" = 1'-0"



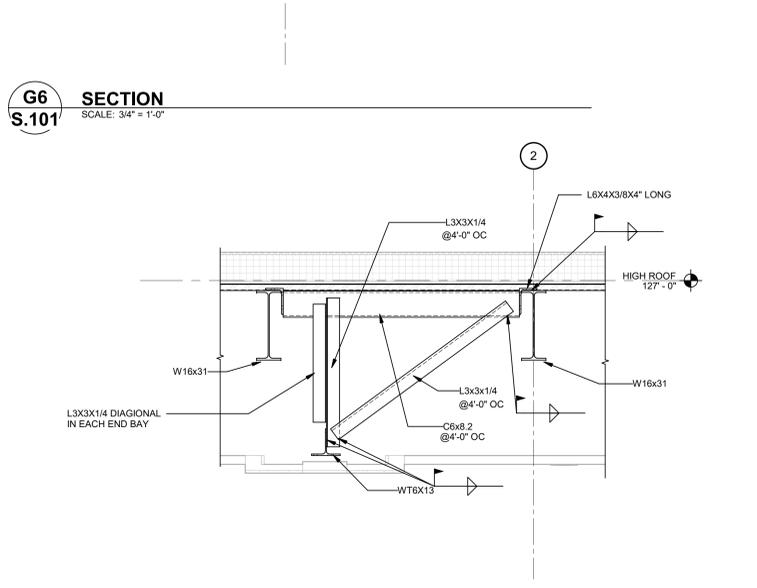
**G6** SECTION  
**S.101** SCALE: 3/4" = 1'-0"



**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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Table with 3 columns: #, DESCRIPTION, DATE. Includes entries for Bid Set (01/24/2025) and Addendum 1 (02/20/2025).

KEY PLAN

SHEET TITLE  
Mechanical Symbols List, Index  
and Notes

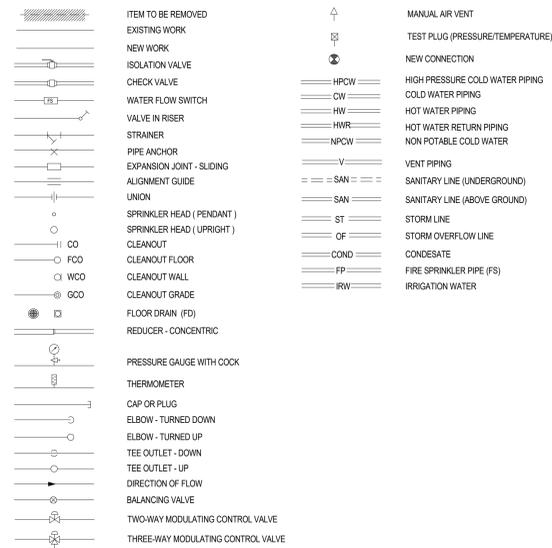
PROJECT #  
2024-010.00  
Scale Varies

SHEET #  
MP-001

ABBREVIATIONS

Table of abbreviations for mechanical components, including ACCU, AD, AFF, AHU, AP, ASR, BTU, CC, CF, CFM, CI, CO, COND, CONT, CUH, CW, CWS, CHR, D6, DB, DDC, DET, DA, DN, DS, DWG, EA, EQH, EF, ELEV, ESP, EUH, EX, EXH, EXST, F, FLR, FFM, FPMH, FSW, FS, FT, GPM, HB, HD, HP, HW, HWR, IN, INL, INV, LAT, LAV, LBSHR, LWT, MAX, MCH, MNL, MISC, NC, NIC, NO, NOM, NFWH, OA, OF, OFD, P, PD, PSI, PRV, RA, RDSP, BAL, RET, RF, RH, RH, RPM, RS, RC, REL, REB, SA, SAN, SD, SF, SG, SP, SP, SPR, SPRSTP, SPS, STX, TP, TYP, UH, UOH, V, VTR, W, WG, WH.

PLUMBING, PIPING & FIRE PROTECTION



MECHANICAL SHEET INDEX

Table with 3 columns: SHEET NO, MECHANICAL SYMBOL LIST INDEX AND NOTES, SHEET TITLE. Lists sheets MP-001 through MP-131 and FP-101 through FP-121.

GENERAL HVAC NOTES:

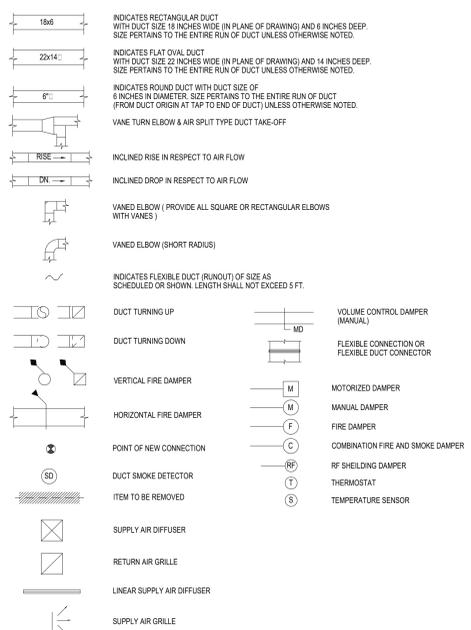
- 1. WHEREVER VOLUME DAMPERS OCCUR ABOVE CEILINGS WITHOUT REMOVABLE TILE AND AN ACCESS PANEL IS NOT FURNISHED, PROVIDE AN EXPOSED DAMPER REGULATOR TO ALLOW DAMPER ADJUSTMENT FROM BELOW CEILING UNIT TO BE EQUAL TO VENTLOCK No. 666 IN 1/2"x3/8" SIZE.
- 2. ALL DIMENSION SHOWN FOR DUCTWORK ARE NET INSIDE DIMENSIONS.
- 3. DIFFUSER AND REGISTER LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- 4. 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.
- 5. DUCT PRESSURE CONSTRUCTION CLASSIFICATION SHALL BE AS SPECIFIED.
- 6. ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE SAME NOMINAL SIZE AS INDICATED ON THE DRAWINGS.
- 7. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASE OR SUSPENDED CEILING.
- 8. 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, FREQUENCIES 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.
- 9. ALL DUCTWORK PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE PROVIDED WITH FIRE DAMPERS AND ACCESS DOOR.

PLUMBING GENERAL NOTES:

- 1. FOR PIPE SIZES TO INDIVIDUAL PLUMBING FIXTURES AND VARIOUS PIECES OF EQUIPMENT REFER TO SPECIFICATIONS.
- 2. 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 CODE).
- 3. REFER TO HVAC GENERAL NOTE 4.
- 4. FOR ADDITION NOTES COMMON TO PLUMBING REFER TO HVAC NOTES.

BUILDING NATURAL GAS LOAD SCHEDULE table with columns EQUIPMENT and TOTAL INPUT CFH. Rows include RTU-1 (600), RTU-2 (600), GWH-1 (76), GWH-2 (199), and TOTAL (1,475 CFH).

HVAC LEGEND & SYMBOLS







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1	Bid Set	01/24/2025
2	Addendum 1	02/20/2025

### KEY PLAN

SHEET TITLE  
Plumbing Floor Plan - Level 1

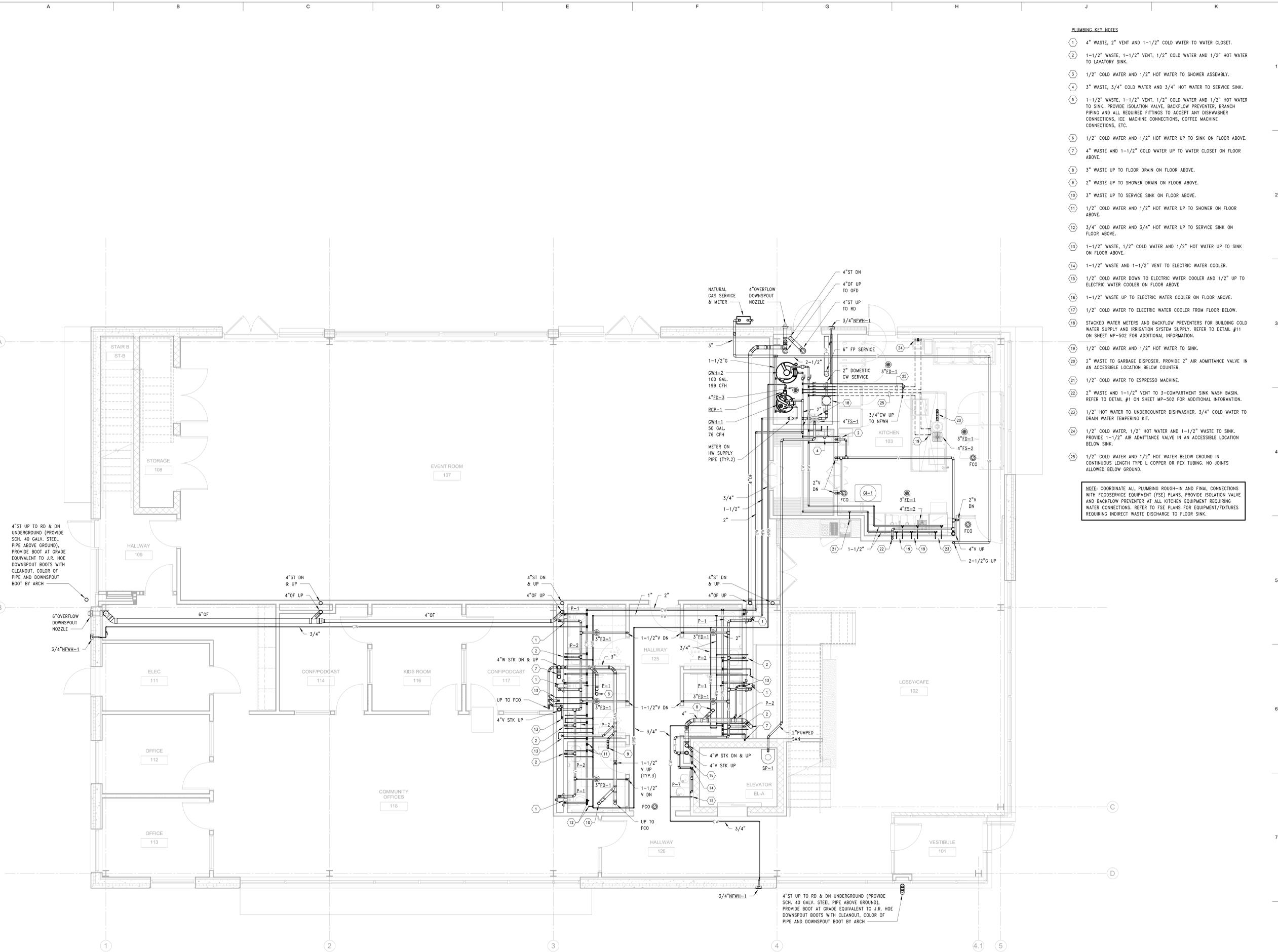
PROJECT #  
2024-010.00  
Scale: 1/4" = 1'-0"

SHEET #  
**P-111**

### PLUMBING KEY NOTES

- 4" WASTE, 2" VENT AND 1-1/2" COLD WATER TO WATER CLOSET.
- 1-1/2" WASTE, 1-1/2" VENT, 1/2" COLD WATER AND 1/2" HOT WATER TO LAVATORY SINK.
- 1/2" COLD WATER AND 1/2" HOT WATER TO SHOWER ASSEMBLY.
- 3" WASTE, 3/4" COLD WATER AND 3/4" HOT WATER TO SERVICE SINK.
- 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.
- 1/2" COLD WATER AND 1/2" HOT WATER UP TO SINK ON FLOOR ABOVE.
- 4" WASTE AND 1-1/2" COLD WATER UP TO WATER CLOSET ON FLOOR ABOVE.
- 3" WASTE UP TO FLOOR DRAIN ON FLOOR ABOVE.
- 2" WASTE UP TO SHOWER DRAIN ON FLOOR ABOVE.
- 3" WASTE UP TO SERVICE SINK ON FLOOR ABOVE.
- 1/2" COLD WATER AND 1/2" HOT WATER UP TO SHOWER ON FLOOR ABOVE.
- 3/4" COLD WATER AND 3/4" HOT WATER UP TO SERVICE SINK ON FLOOR ABOVE.
- 1-1/2" WASTE, 1/2" COLD WATER AND 1/2" HOT WATER UP TO SINK ON FLOOR ABOVE.
- 1-1/2" WASTE AND 1-1/2" VENT TO ELECTRIC WATER COOLER.
- 1/2" COLD WATER DOWN TO ELECTRIC WATER COOLER AND 1/2" UP TO ELECTRIC WATER COOLER ON FLOOR ABOVE.
- 1-1/2" WASTE UP TO ELECTRIC WATER COOLER ON FLOOR ABOVE.
- 1/2" COLD WATER TO ELECTRIC WATER COOLER FROM FLOOR BELOW.
- STACKED WATER METERS AND BACKFLOW PREVENTERS FOR BUILDING COLD WATER SUPPLY AND IRRIGATION SYSTEM SUPPLY. REFER TO DETAIL #11 ON SHEET MP-502 FOR ADDITIONAL INFORMATION.
- 1/2" COLD WATER AND 1/2" HOT WATER TO SINK.
- 2" WASTE TO GARBAGE DISPOSER. PROVIDE 2" AIR ADMITTANCE VALVE IN AN ACCESSIBLE LOCATION BELOW COUNTER.
- 1/2" COLD WATER TO ESPRESSO MACHINE.
- 2" WASTE AND 1-1/2" VENT TO 3-COMPARTMENT SINK WASH BASIN. REFER TO DETAIL #1 ON SHEET MP-502 FOR ADDITIONAL INFORMATION.
- 1/2" HOT WATER TO UNDERCOUNTER DISHWASHER. 3/4" COLD WATER TO DRAIN WATER TEMPERING KIT.
- 1/2" COLD WATER, 1/2" HOT WATER AND 1-1/2" WASTE TO SINK. PROVIDE 1-1/2" AIR ADMITTANCE VALVE IN AN ACCESSIBLE LOCATION BELOW SINK.
- 1/2" COLD WATER AND 1/2" HOT WATER BELOW GROUND IN CONTINUOUS LENGTH TYPE L COPPER OR PEX TUBING. NO JOINTS ALLOWED BELOW GROUND.

NOTE: COORDINATE ALL PLUMBING ROUGH-IN AND FINAL CONNECTIONS WITH FOODSERVICE EQUIPMENT (FSE) PLANS. PROVIDE ISOLATION VALVE AND BACKFLOW PREVENTER AT ALL KITCHEN EQUIPMENT REQUIRING WATER CONNECTIONS. REFER TO FSE PLANS FOR EQUIPMENT/FIXTURES REQUIRING INDIRECT WASTE DISCHARGE TO FLOOR SINK.



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

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1	Bldg Set	01/24/2025
2	Addendum 1	02/20/2025

### KEY PLAN

SHEET TITLE  
Plumbing Floor Plan - Level 2

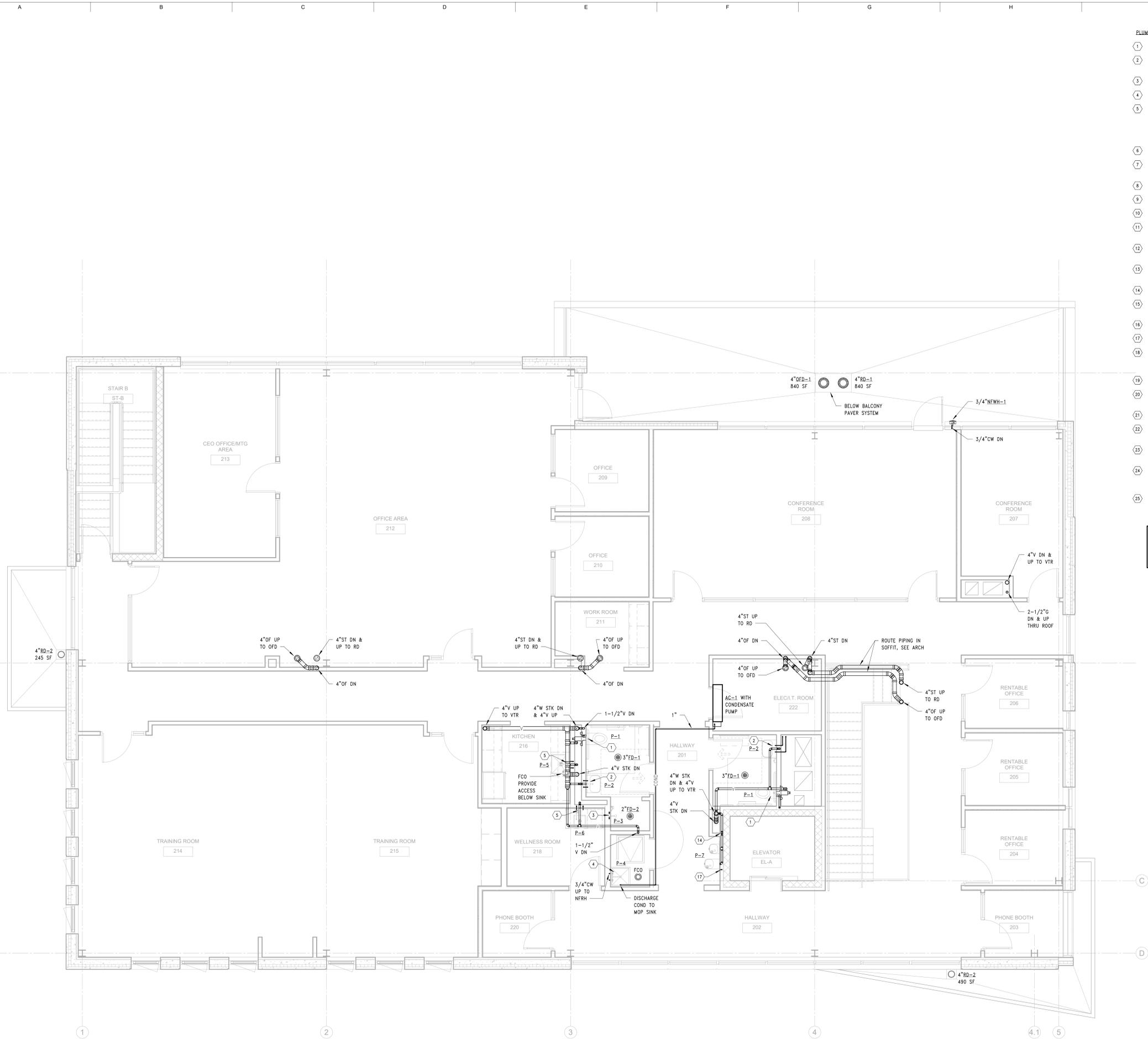
PROJECT #  
2024-010.00

SHEET #  
**P-121**

### 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 AND 1-1/2" VENT TO ELECTRIC WATER COOLER.
- ⑮ 1/2" COLD WATER DOWN TO ELECTRIC WATER COOLER AND 1/2" UP TO ELECTRIC WATER COOLER ON FLOOR ABOVE.
- ⑯ 1-1/2" WASTE UP TO ELECTRIC WATER COOLER ON FLOOR ABOVE.
- ⑰ 1/2" COLD WATER TO ELECTRIC WATER COOLER FROM FLOOR BELOW.
- ⑱ STACKED WATER METERS AND BACKFLOW PREVENTERS FOR BUILDING COLD WATER SUPPLY AND IRRIGATION SYSTEM SUPPLY. REFER TO DETAIL #11 ON SHEET MP-502 FOR ADDITIONAL INFORMATION.
- ⑲ 1/2" COLD WATER AND 1/2" HOT WATER TO SINK.
- ⑳ 2" WASTE TO GARBAGE DISPOSER. PROVIDE 2" AIR ADMITTANCE VALVE IN AN ACCESSIBLE LOCATION BELOW COUNTER.
- ㉑ 1/2" COLD WATER TO ESPRESSO MACHINE.
- ㉒ 2" WASTE AND 1-1/2" VENT TO 3-COMPARTMENT SINK WASH BASIN. REFER TO DETAIL #1 ON SHEET MP-502 FOR ADDITIONAL INFORMATION.
- ㉓ 1/2" HOT WATER TO UNDERCOUNTER DISHWASHER. 3/4" COLD WATER TO DRAIN WATER TEMPERING KIT.
- ㉔ 1/2" COLD WATER, 1/2" HOT WATER AND 1-1/2" WASTE TO SINK. PROVIDE 1-1/2" AIR ADMITTANCE VALVE IN AN ACCESSIBLE LOCATION BELOW SINK.
- ㉕ 1/2" COLD WATER AND 1/2" HOT WATER BELOW GROUND IN CONTINUOUS LENGTH TYPE L COPPER OR PEX TUBING. NO JOINTS ALLOWED BELOW GROUND.

NOTE: COORDINATE ALL PLUMBING ROUGH-IN AND FINAL CONNECTIONS WITH FOODSERVICE EQUIPMENT (FSE) PLANS. PROVIDE ISOLATION VALVE AND BACKFLOW PREVENTER AT ALL KITCHEN EQUIPMENT REQUIRING WATER CONNECTIONS. REFER TO FSE PLANS FOR EQUIPMENT/FIXTURES REQUIRING INDIRECT WASTE DISCHARGE TO FLOOR SINK.



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

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

30x42

## PROJECT West Michigan Hispanic Chamber of Commerce- HQ

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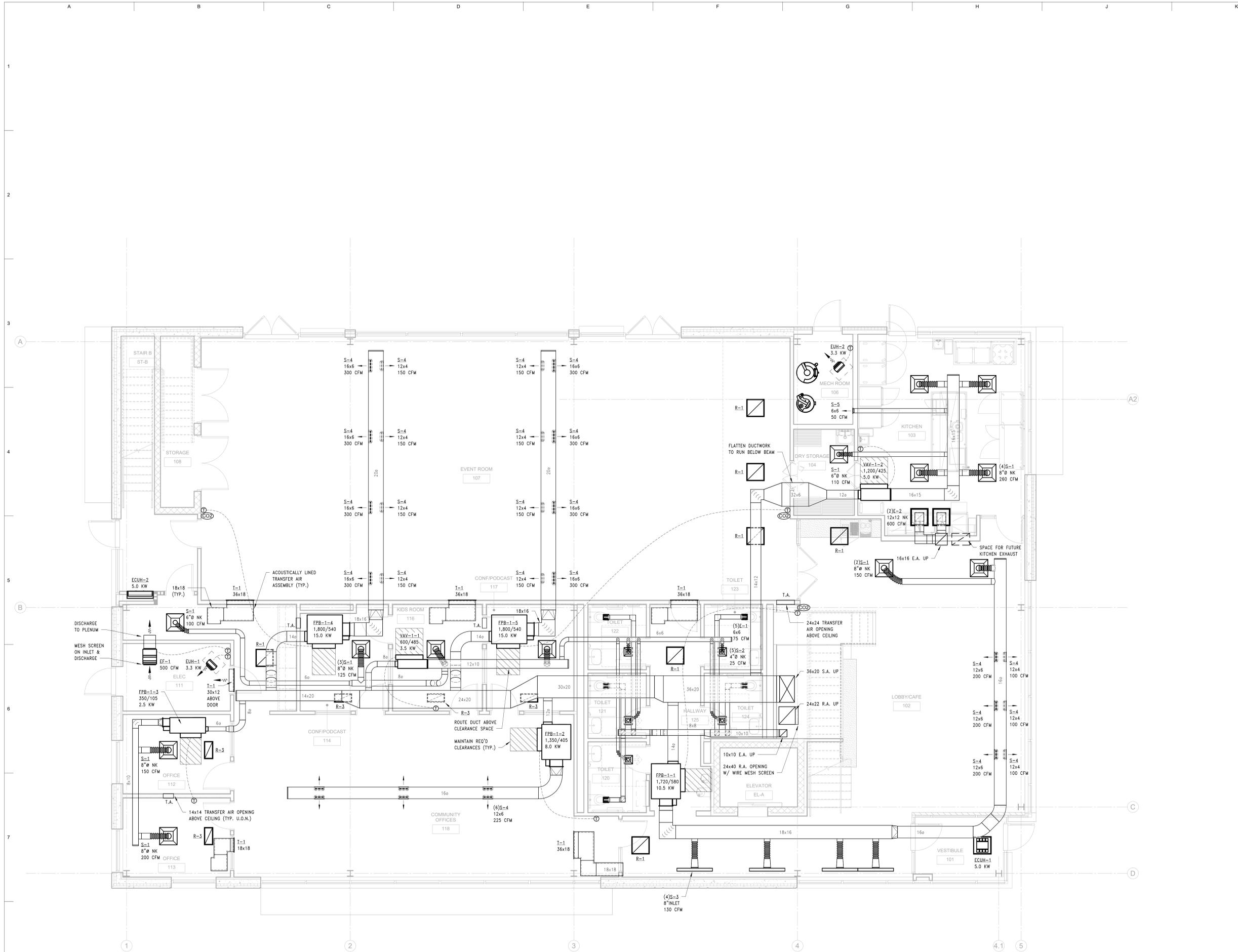
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2	Addendum 1	02/20/2025

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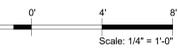
SHEET TITLE  
HVAC Floor Plan - Level 1

PROJECT #  
2024-010.00

SHEET #  
**M-111**



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



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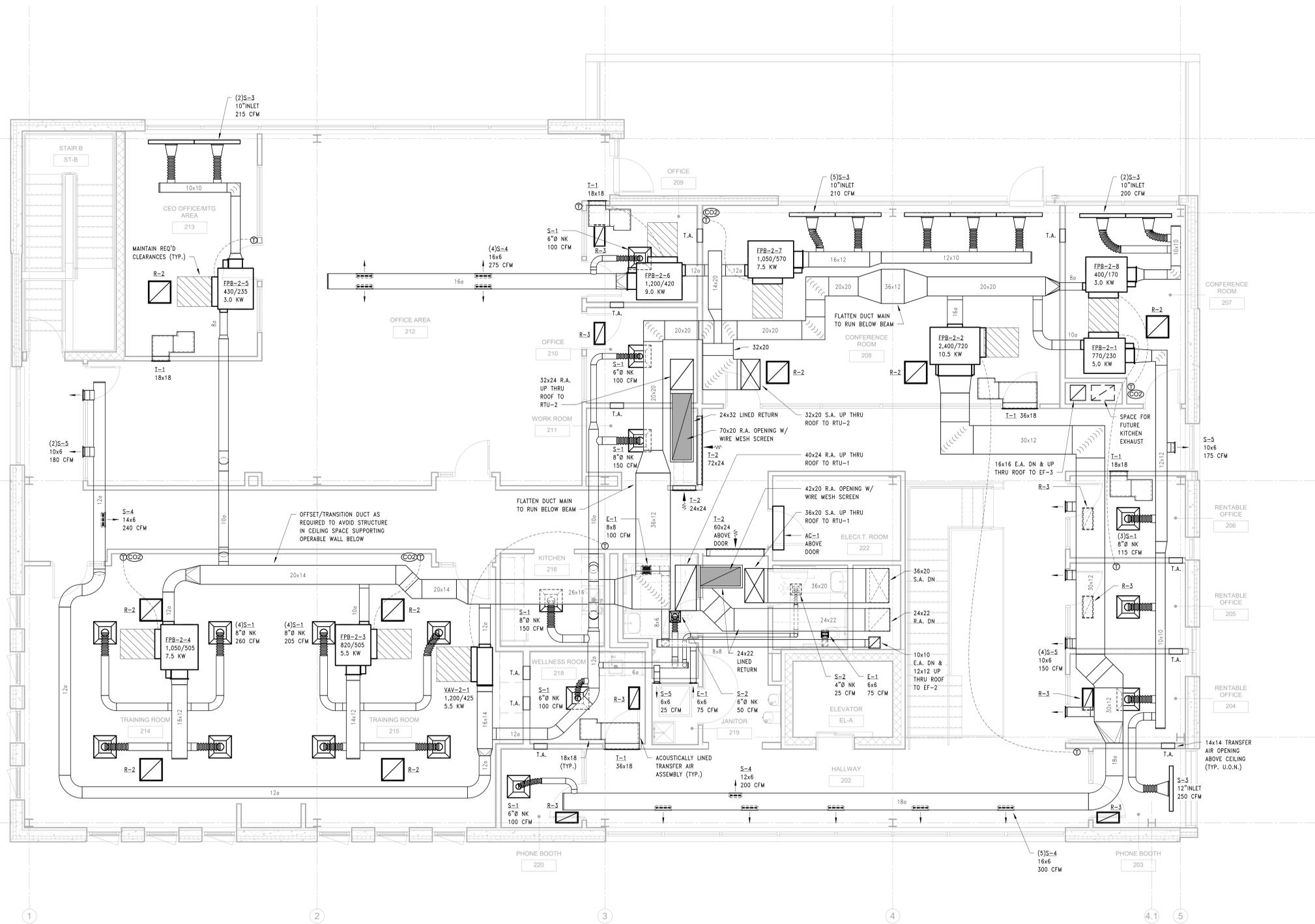
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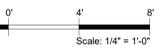
SHEET TITLE  
HVAC Floor Plan - Level 2

PROJECT #  
2024-010.00

SHEET #  
**M-121**



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



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

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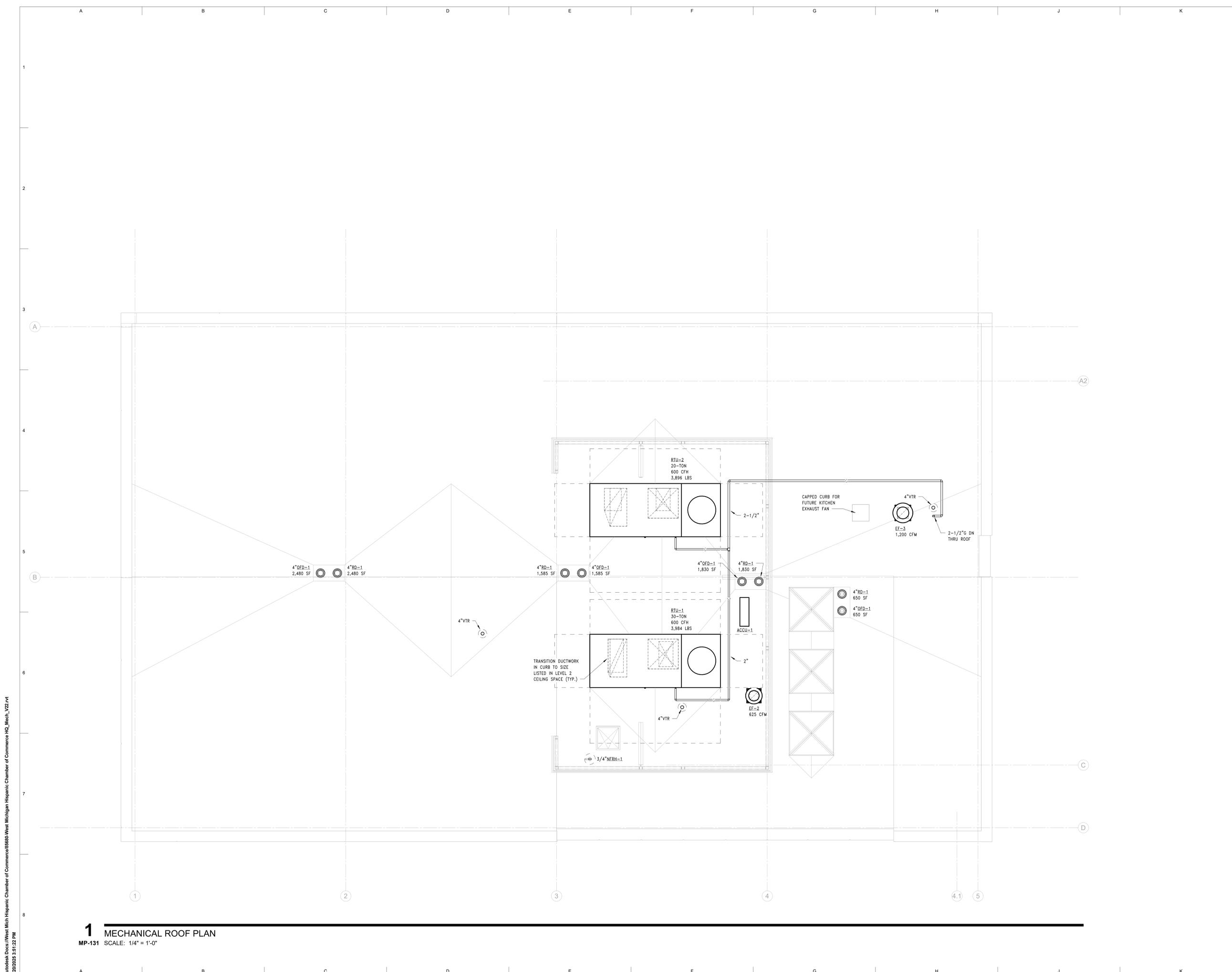
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2	Addendum 1	02/20/2025

KEY PLAN

SHEET TITLE  
Mechanical Roof Plan

PROJECT #  
2024-010.00

SHEET #  
MP-131



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

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**PROJECT**

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1 | 248 | 258 | 1610  
11 | 248 | 258 | 1938

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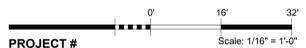
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1	Addendum 1	02/20/2025

**KEY PLAN**

**SHEET TITLE**  
Mechanical Schedules

**PROJECT #**  
2024-010.00

**SHEET #**  
**MP-402**



### PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL#	FINISH	NOTES
P-1	WALL-MOUNTED WATER CLOSET	AMERICAN STANDARD	Z257.101	WHITE VITREOUS CHINA	WALL-MOUNTED, ELONGATED BOWL, 1 1/2" TOP SPUD, 1.28 GPF, ANTIMICROBIAL FINISH, GLAZED TRAPWAY, SPOURJET, BOTTOM DISCHARGE, ADA COMPLIANT. INSTALL IN ACCORDANCE WITH ADA REQUIREMENTS. MOUNTING OF FLUSH VALVE TO BE WITH THE LEVER/OVERRIDE BUTTON ON THE WIDE SIDE OF THE COMPARTMENT. PROVIDE WALL CARRIER, ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD OR KOHLER.
	FLUSH VALVE	AMERICAN STANDARD	6065.721.002	CHROME	1.1 GPF, SENSOR-OPERATED, BATTERY POWERED; 1-1/2" TOP SPUD CONNECTION, LEFT OR HIGH HAND INSTALLATION, MANUAL OVERRIDE BUTTON, ANGLE STOP, VACUUM BREAKER, ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD OR KOHLER.
	TOILET SEAT	AMERICAN STANDARD	5905.100	WHITE	ELONGATED, SOLID INJECTION MOULDED, OPEN FRONT, SELF-SUSTAINING STAINLESS STEEL CHECK HINGE, ANTIMICROBIAL SURFACE, ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD OR KOHLER.
P-2	WALL-HUNG LAVATORY	AMERICAN STANDARD	0321.075	WHITE VITREOUS CHINA	WALL-HUNG, PRE-DRILLED 4" CENTERSET, REAR OVERFLOW, CONCEALED ARMS SUPPORT, ADA COMPLIANT. ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD OR KOHLER.
	FAUCET	AMERICAN STANDARD	6551.204	CHROME	CAST BRASS CONSTRUCTION, SENSOR OPERATED, BATTERY POWERED, 4" CENTERSET, DECK-MOUNTED, 0.35 GPM AERATOR, ADA COMPLIANT. AMERICAN STANDARD, DELTA, KOHLER, ZURN OR ZURN.
	ACCESSORIES				1/2" x 3/8" ANGLE SUPPLIES WITH LOOSE KEY STOPS, FLEXIBLE STAINLESS BRAIDED RISERS AND CHROME-PLATED ESCUTCHEON PLATES, ASSE 10/0 MINDING VALVE, STAINLESS STEEL STRAINER, 1-1/4" CHROME-PLATED CAST BRASS ADJUSTABLE P-TRAP WITH CLEANOUT AND TUBING OUTLET TO WALL, COMPLETE WITH CHROME-PLATED CAST BRASS ESCUTCHEON PLATE. PROVIDE TUBERO ADA-COMPLIANT PIPING/INSULATION KIT FOR EXPOSED PIPING. PROVIDE WALL CARRIER.
P-3	SHOWER BASE	BEST BATH	P46368	WHITE	48" x 36" BARRIER-FREE SHOWER PAN, 3/4" BEVELED THRESHOLD, CENTER DRAIN, ADA COMPLIANT. PROVIDE 2" DRAIN ASSEMBLY WITH STAINLESS STEEL GRID STRAINER.
	SHOWER SURROUND				SHOWER SURROUND, GRAB BARS AND SEAT SPECIFIED BY ARCH.
	VALVE	DELTA	R1000-4NBX	WHITE	SINGLE HANDLE MIXING VALVE, BRASS BODY, ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD, DELTA OR KOHLER.
	TRIM	DELTA	T13432	CHROME	PRESSURE BALANCED SHOWER ASSEMBLY, METAL LEVER HANDLE, REDUCIBLE INDICATOR MARKINGS, SHOWERHEAD WITH DIVERTER, HANDSHOWER WITH 24" STAINLESS STEEL SLIDE BAR, 7/8" FLEXIBLE HOSE, 1.5 GPM, ADA COMPLIANT. ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD, DELTA OR KOHLER.
P-4	SERVICE SINK	FIAT PRODUCTS	MSB2424		ONE-PIECE MOLDED STONE, 10" HIGH WALLS WITH 1" WIDE SHOULDERS, FACTORY INSTALLED STAINLESS STEEL DRAIN BODY WITH DOME STRAINER AND LIFT BASKET. ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD, FIAT PRODUCTS OR KOHLER.
	FAUCET	AMERICAN STANDARD	8354.112		WALL MOUNTED, 8" BODY, VACUUM BREAKER, LEVER HANDLES, 1/4 TURN CERAMIC CARTRIDGES, 3/4" MALE HOSE THREADED OUTLET, PAL HOOK WITH WALL BRACE, ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD OR KOHLER.
	ACCESSORIES	FIAT PRODUCTS			E-17-A-A VINYL BUMPER GUARDS ON ALL SIDES NOT ADJACENT TO WALL, 1/8" DIA STAINLESS STEEL WALL GUARDS, 3/8" DIA HOSE AND HOSE BRACKET, 5/8" DIA SILICONE SEALANT.
P-5	STAINLESS STEEL SINK	ELKAY	ECTSRAD25260	STAINLESS STEEL	DROP-IN INSTALLATION, SINGLE BOWL, 22-1/2" x 16-3/4" x 4" BOWL DIMENSIONS; 35" x 22" x 4" OVERALL DIMENSIONS, SOUND DEADENED 18 GA. 304 STAINLESS STEEL, ADA COMPLIANT. SINK DIMENSIONS SHALL BE CONFIRMED WITH BASE CABINET DRAWINGS. UNIT SHALL BE PRE-DRILLED TO ACCEPT FAUCET. ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD, ELKAY OR KOHLER.
	FAUCET	ELKAY	LKLFH2031	CHROME	SINGLE HOLE TOP MOUNT, SINGLE LEVER, PULL-DOWN SPRAY WITH AERATED FLOW AND SPRAY FUNCTION, SOLID BRASS CONSTRUCTION, SWING SPOUT, 1.5 GPM, ADA COMPLIANT. ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD, ELKAY OR KOHLER.
	ACCESSORIES				1/2" x 3/8" ANGLE SUPPLIES WITH LOOSE KEY STOPS, FLEXIBLE STAINLESS BRAIDED RISERS AND CHROME-PLATED ESCUTCHEON PLATES, DRAIN TO ACCEPT GARBAGE DISPOSAL, 1-1/2" CHROME-PLATED CAST BRASS ADJUSTABLE P-TRAP WITH CLEANOUT AND TUBING OUTLET TO WALL, COMPLETE WITH CHROME-PLATED CAST BRASS ESCUTCHEON PLATE.
	GARBAGE DISPOSAL	INSINKERATOR	EVOLUTION COMPACT		3/4 HP MOTOR, 120V/1PH, 8.1 AMP, CONTINUOUS FEED, STAINLESS STEEL GRIND COMPONENTS, MANUAL RESET OVERLOAD, DISHWASHER DRAIN CONNECTION, PLUG AND CORD.

### PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL#	FINISH	NOTES
P-6	STAINLESS STEEL SINK	ELKAY	LRAD1206PFO	STAINLESS STEEL	DROP-IN INSTALLATION, SINGLE BOWL, 14" x 14" x 6-1/2" BOWL DIMENSIONS, 17" x 20" x 6" OVERALL DIMENSIONS, SOUND DEADENED 18 GA. 304 STAINLESS STEEL, ADA COMPLIANT. SINK DIMENSIONS SHALL BE CONFIRMED WITH BASE CABINET DRAWINGS. UNIT SHALL BE PRE-DRILLED TO ACCEPT FAUCET. ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD, ELKAY OR KOHLER.
	FAUCET	ELKAY	LKLFH2031	CHROME	SINGLE HOLE TOP MOUNT, SINGLE LEVER, PULL-DOWN SPRAY WITH AERATED FLOW AND SPRAY FUNCTION, SOLID BRASS CONSTRUCTION, SWING SPOUT, 1.5 GPM, ADA COMPLIANT. ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD, ELKAY OR KOHLER.
	ACCESSORIES				1/2" x 3/8" ANGLE SUPPLIES WITH LOOSE KEY STOPS, FLEXIBLE STAINLESS BRAIDED RISERS AND CHROME-PLATED ESCUTCHEON PLATES, STAINLESS STEEL BASKET STRAINER, 1-1/2" CHROME-PLATED CAST BRASS ADJUSTABLE P-TRAP WITH CLEANOUT AND TUBING OUTLET TO WALL, COMPLETE WITH CHROME-PLATED CAST BRASS ESCUTCHEON PLATE.
P-7	ELECTRIC WATER COOLER	ELKAY	LZSTL6WSK	STAINLESS STEEL	DUAL LEVEL FOUNTAIN WITH BOTTLE FILLING STATION, SELF-CLOSING PUSHBAR ACTIVATION OF BUBBLERS, ELECTRONIC SENSOR ACTIVATION OF BOTTLE FILLER, FILTER WITH LED STATUS INDICATOR, ANTIMICROBIAL SURFACE COATING, WALL MOUNT INSTALLATION, HERMETICALLY SEALED COMPRESSOR, 120V, 8.0 GPH CAPACITY, BASED ON 80 DEGREES F AMBIENT TEMP AND 80 DEGREES F INLET WATER TEMP, 5 YEAR COMPRESSOR WARRANTY, LEAD-FREE, ADA COMPLIANT, ELKAY, HALSEY TAYLOR, HAVIS, OASIS OR SUNROC.
FD-1	GENERAL FLOOR DRAIN	JAY R. SMITH	2005-A		LIGHT DUTY, ADJUSTABLE NICKEL BRONZE STRAINER, DRAINAGE FLANGE, WEEPHOLES, 3" STRAINER DIAMETER, JAY R. SMITH, MIFAB, WADE, WATTS OR ZURN, PROVIDE "SURE SEAL" DRAIN TRAP SEALER.
FD-2	SHOWER DRAIN				INCLUDED IN P-3 FIXTURE SELECTION.
FD-3	FLOOR DRAIN				SAME AS FD-1 FLOOR DRAIN.
FS-1	HIGH CAPACITY FLOOR SINK	ZURN	1752		12" x 12" x 10" 18 GA. 304 STAINLESS STEEL FLOOR SINK, 2" PIPE SIZE, NO GRATE, DOME STRAINER, JAY R. SMITH, MIFAB, WADE, WATTS OR ZURN, PROVIDE "SURE SEAL" DRAIN TRAP SEALER.
FS-2	FOOD SERVICE FLOOR SINK	ZURN	Z1902		12" x 12" SINK-FLOOR RECEPTOR, 10" SUMP DEPTH, CAST IRON BODY AND SQUARE SLOTTED LIGHT DUTY GRATE WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI SPASH INTERIOR BOTTOM DOME STRAINER, MEMBRANE CLAMP WITH HARDWARE, EXTENSION AS REQUIRED, JAY R. SMITH, MIFAB, WADE, WATTS OR ZURN, PROVIDE "SURE SEAL" DRAIN TRAP SEALER, PROVIDE GRATING WITH PARTIAL OPENINGS AS REQUIRED TO ACCEPT INDIRECT WASTE DRAINS FROM FOOD SERVICE FIXTURES AND EQUIPMENT.
RD-1	ROOF DRAIN	ZURN	Z100F		CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP AND GRAVEL STOP, JAY R. SMITH, MIFAB, WADE, WATTS OR ZURN.
RD-2	ROOF DRAIN	ZURN	Z125		8-3/8" DIA. CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP AND GRAVEL STOP, JAY R. SMITH, MIFAB, WADE, WATTS OR ZURN.
OFD-1	OVERFLOW DRAIN	ZURN	Z100F		SAME AS RD-1. PROVIDE 2" WATER DAM.
NFW-1	NON-FREEZE WALL HYDRANT	JAY R. SMITH	5509-QT		3/4" ENCASED FLUSH ANTI-SIPHON WALL HYDRANT, NON-FREEZE TYPE WITH BRONZE CASING, INTEGRAL VACUUM BREAKERS, ALL BRONZE INTERIOR PARTS AND NON-TURNING OPERATING ROD WITH FREE-FLOATING COMPRESSOR CLOSURE VALVE, BOX FACE AND HINGED COVER SHALL BE NICKEL BRONZE COMPLETE WITH OPERATING KEY LOCK, JAY R. SMITH, MIFAB, WADE, WATTS OR ZURN.
NRF-1	NON-FREEZE ROOF HYDRANT	WOODFORD	SR4		NON-FREEZE TYPE, 3/4" HOSE OUTLET CONNECTION, 3/4" NPT INLET CONNECTION, ASSE 102 LISTED, DUAL CHECK BACKFLOW PREVENTER, VENTURI ACTION DRAINING SYSTEM, UNDER DECK MOUNTING FLANGE.

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

1111 Godfrey  
Grand Rapids, MI 49507

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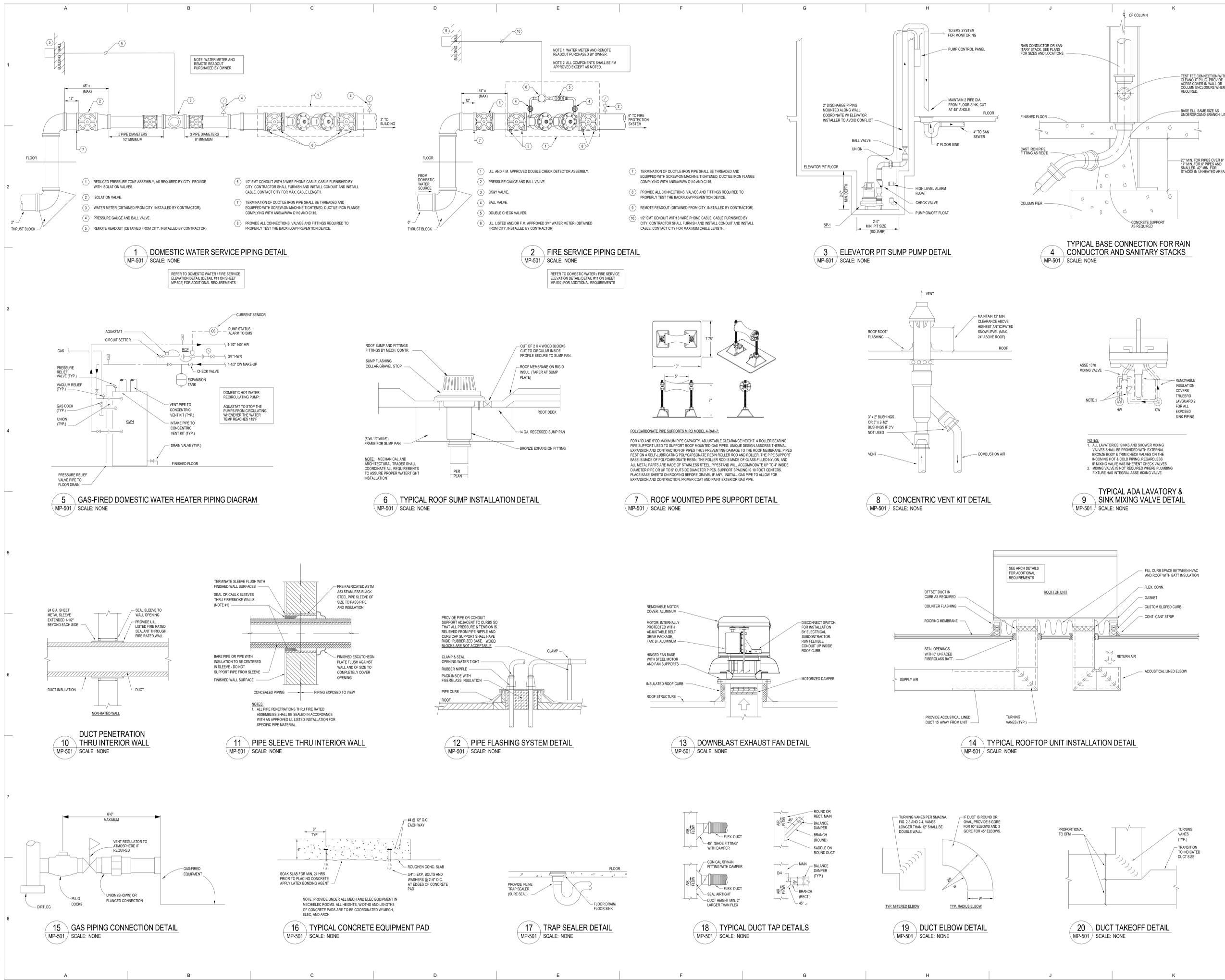
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KEY PLAN

SHEET TITLE  
Mechanical Details

PROJECT #  
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SHEET #  
**MP-501**



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**PROJECT**  
**West Michigan  
 Hispanic  
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 Commerce- HQ**

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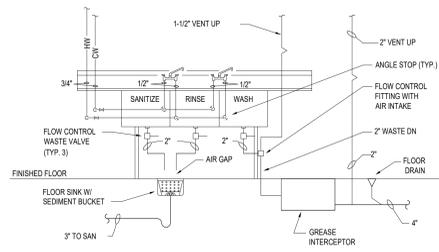
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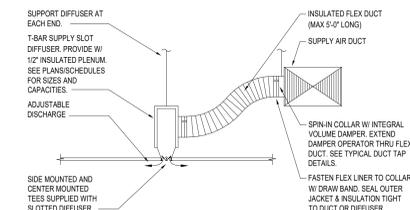
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PROJECT #  
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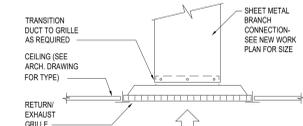
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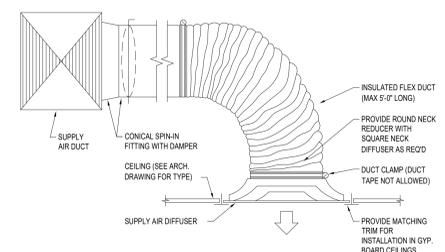
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 MP-502 SCALE: NONE



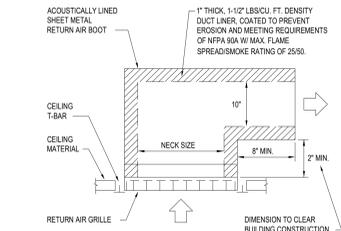
**2 LINEAR SLOT DIFFUSER WITH FLEX DUCT DETAIL**  
 MP-502 SCALE: NONE



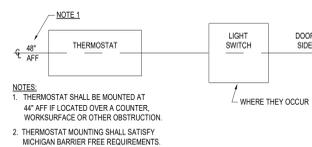
**3 RETURN / EXHAUST AIR GRILLE DETAIL**  
 MP-502 SCALE: NONE



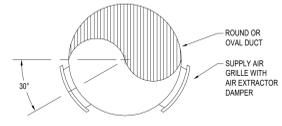
**4 SUPPLY AIR DIFFUSER WITH FLEX DUCT DETAIL**  
 MP-502 SCALE: NONE



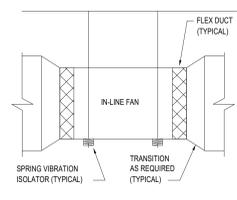
**5 RETURN AIR GRILLE WITH ACOUSTICAL BOOT DETAIL**  
 MP-502 SCALE: NONE



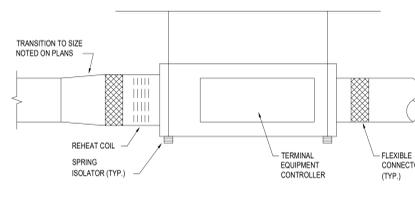
**6 THERMOSTAT MOUNTING DETAIL**  
 MP-502 SCALE: NONE



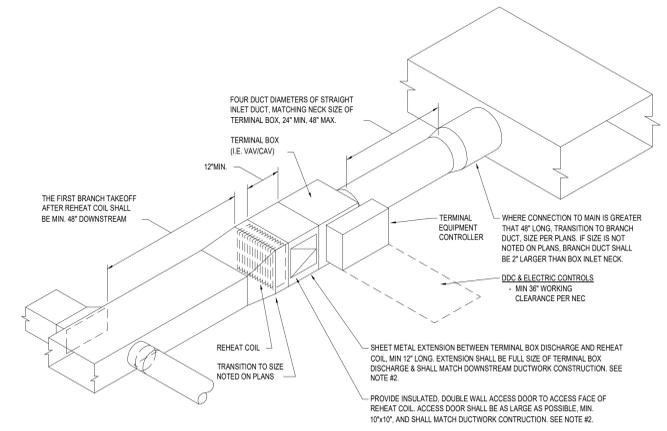
**7 DUCT-MOUNTED SUPPLY GRILLE DETAIL**  
 MP-502 SCALE: NONE



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

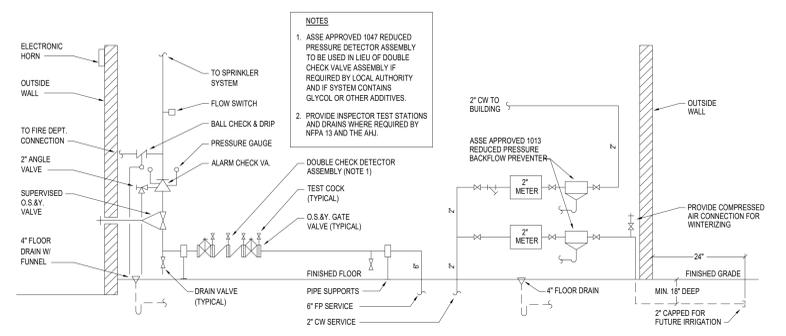


**9 TYPICAL FAN POWERED BOX INSTALLATION DETAIL**  
 MP-502 SCALE: NONE

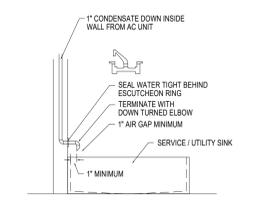


- NOTES:**
- FLEX DUCT IS NOT ALLOWED UPSTREAM OR DOWNSTREAM OF TERMINAL BOXES, EXCEPT IN THE BRANCH CONNECTION DIRECTLY TO DIFFUSER/GRILLES.
  - TERMINAL BOX CONSTRUCTION THAT INCORPORATES A FACTORY PROVIDED ACCESS DOOR IN THE SIDE OF THE BOX CASING ARE ALLOWED TO MOUNT THE REHEAT COIL DIRECTLY TO THE TERMINAL BOX DISCHARGE OPENING AND FOREGO THE SHEET METAL EXTENSION BETWEEN BOX & COIL.
  - 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



**11 DOMESTIC WATER / FIRE SERVICE ELEVATION DETAIL**  
 MP-502 SCALE: NONE



**12 CONDENSATE TO SINK DRAIN DETAIL**  
 MP-502 SCALE: NONE

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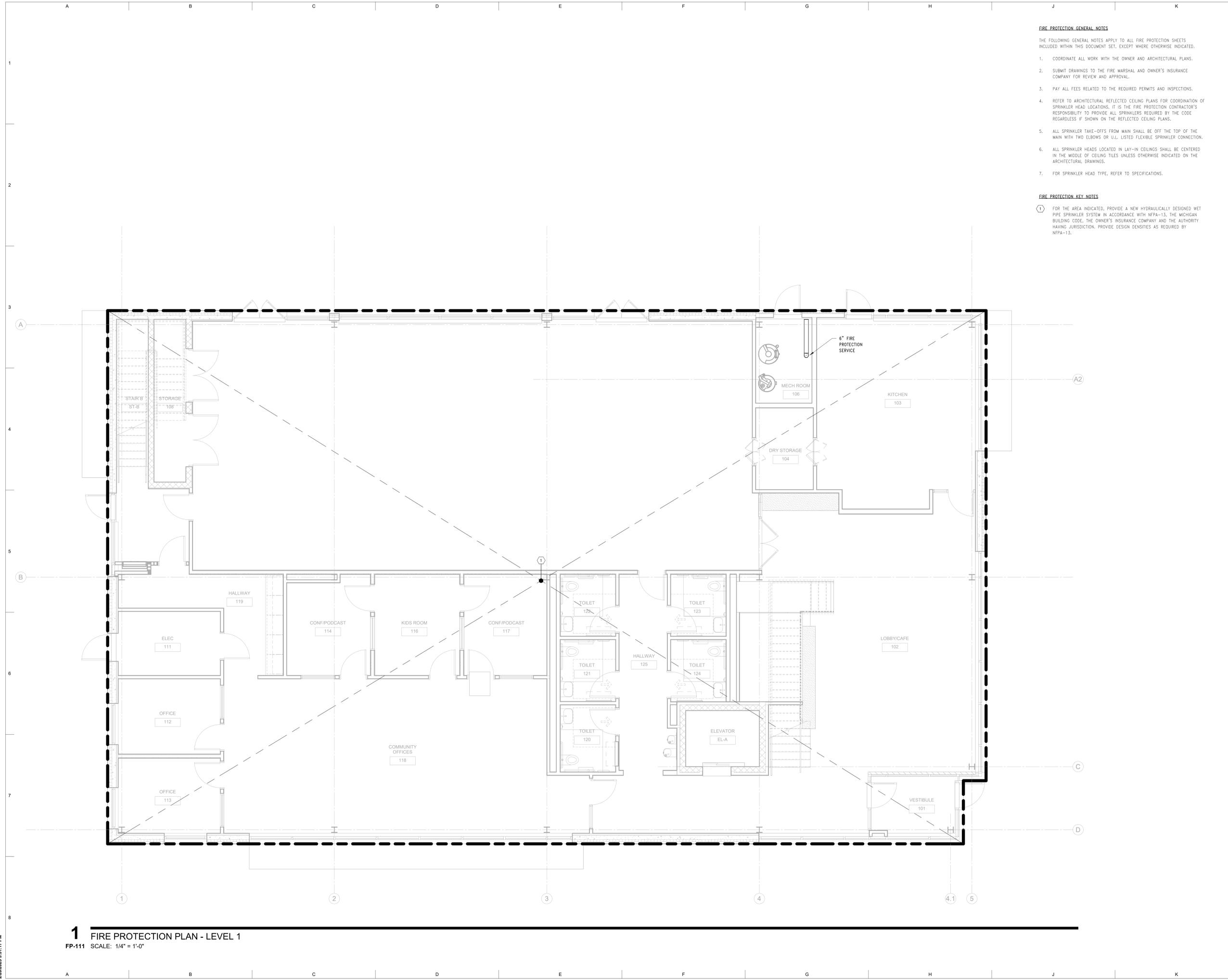
### FIRE PROTECTION GENERAL NOTES

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 1**  
FP-111 SCALE: 1/4" = 1'-0"

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#	DESCRIPTION	DATE
1	Bid Set	01/24/2025
2	Addendum 1	02/20/2025

KEY PLAN

SHEET TITLE  
Fire Protection Plan - Level 1

PROJECT #  
2024-010.00

SHEET #

**FP-111**

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### PROFESSIONAL SEAL

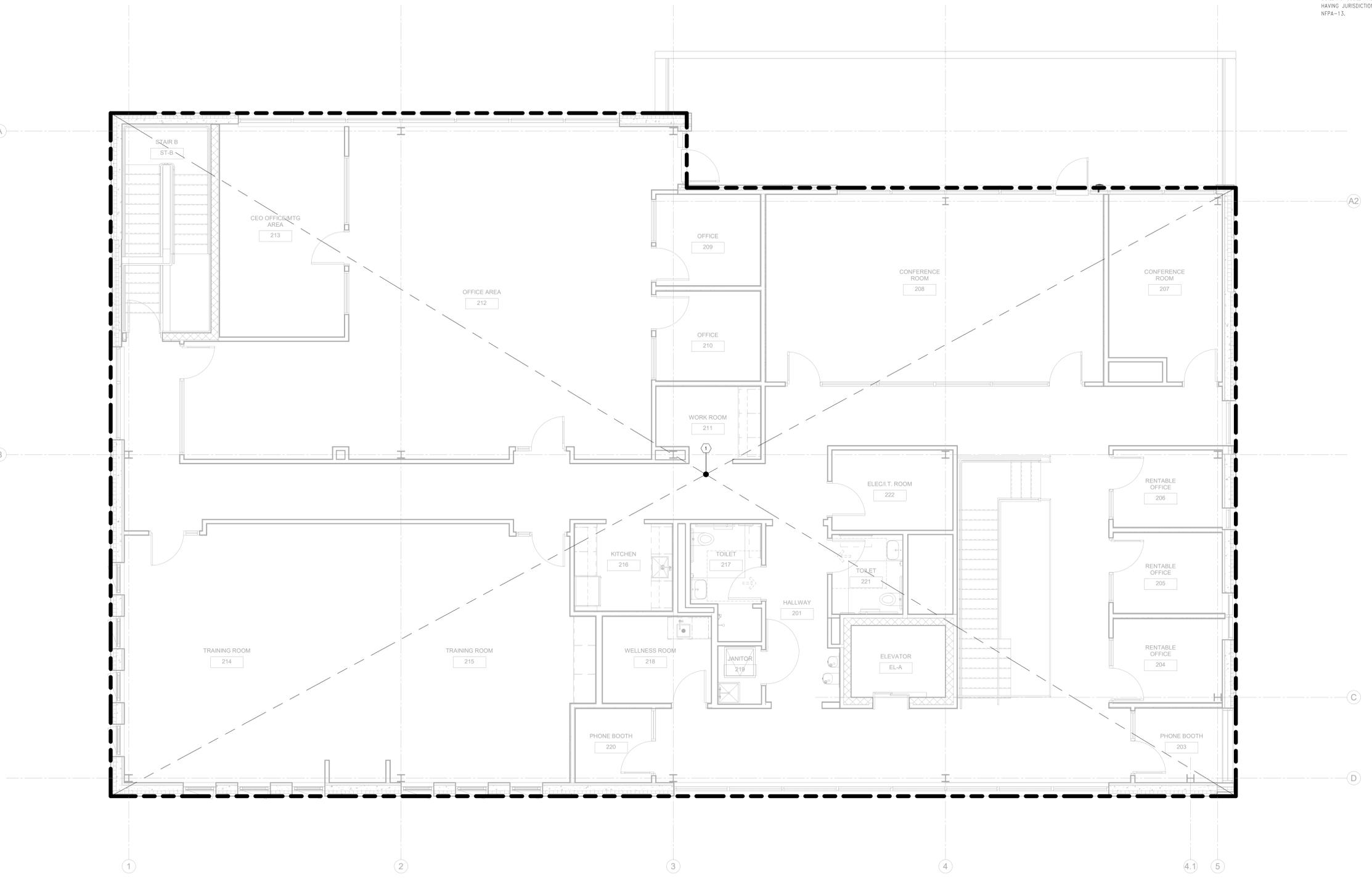
#### FIRE PROTECTION GENERAL NOTES

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
2	Addendum 1	02/20/2025

### KEY PLAN

SHEET TITLE  
Fire Protection Plan - Level 2

PROJECT #  
2024-010.00

SHEET #  
**FP-121**

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## PROJECT

## West Michigan Hispanic Chamber of Commerce-HQ

1111 Godfrey  
Grand Rapids, MI 49507

## CONSULTANT



## PROFESSIONAL SEAL

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#	DESCRIPTION	DATE
1	Bid Set	01/24/2025
2	Addendum 1	02/20/2025

## KEY PLAN

SHEET TITLE  
Electrical Riser DiagramPROJECT #  
2024-010.00SHEET #  
**E-010**

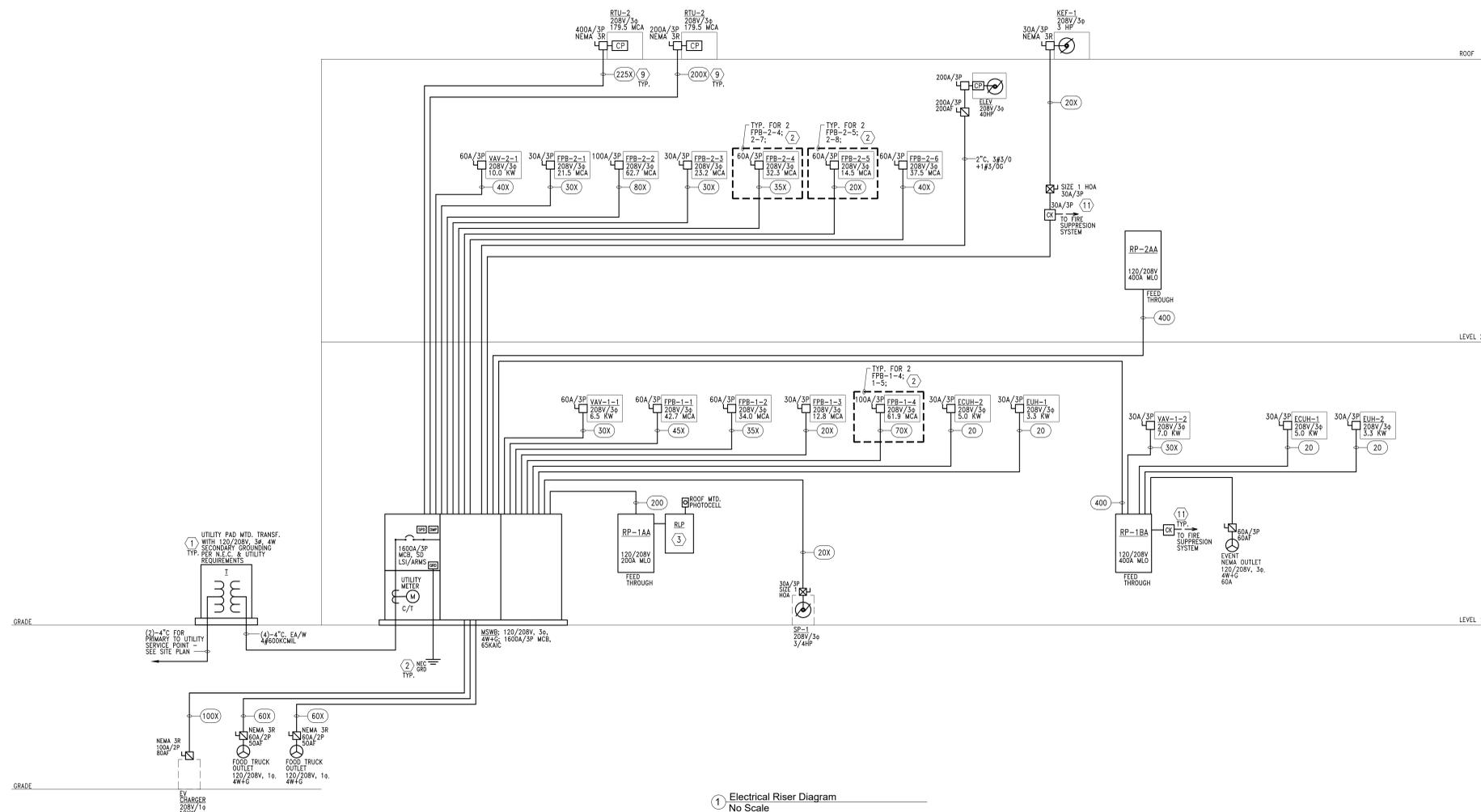
MAIN DISTRIBUTION PANEL MDP						
120/208V, 3PH, 4W+G, 1800A/3P MCB LSI ARMS 65 KAC						
POSITION	SWITCH/FUSE	EQUIPMENT	CONNECTED LOAD (KVA)	DEMAND LOAD (KVA)	FEEDER SIZE (COPPER)	
	SWITCH	FUSE			(SEE RISER FOR ALL)	
01	1200A/3P	1200 A	MAIN SD LSI ARMS			
1	400A/3P	225 A	RTU-1	178.5 A	64.6	51.7
2	400A/3P	400 A	RP-2AA		33.5	25.3
3	200A/3P	175 A	RTU-2		50.5	40.4
4	200A/3P	200 A	RP-1AA		31.5	24.9
5	400A/3P	400 A	RP-1BA		12.3	12.3
6	200A/3P	300 A	ELEVATOR		43.2	34.6
7	200A/3P		SPARE			
8	200A/3P		SPARE			
9	100A/2P	80 A	EV CHARGER		12.0	9.6
10	100A/3P		SPARE			
11	80A/3P		SPARE			
12	80A/3P		SPARE			
13	80A/3P		SPARE			
14	80A/3P	80 A	EVENT POWER		15.0	12.0
15	80A/3P		SPARE			
16	30A/3P	20 A	KEF-1		4.0	3.2
17	60A/3P	45 A	FPB-1-1		42.7 MCA	13.1
18	60A/3P	35 A	FPB-1-2		34.0 MCA	10.4
19	30A/3P	15 A	FPB-1-3		12.8 MCA	3.9
20	100A/3P	70 A	FPB-1-4		81.9 MCA	18.9
21	100A/3P	70 A	FPB-1-5		81.9 MCA	18.9
22	30A/3P	25 A	FPB-2-1		21.5 MCA	6.6
23	100A/3P	80 A	FPB-2-2		62.7 MCA	19.2
24	30A/3P	25 A	FPB-2-3		23.2 MCA	7.1
25	60A/3P	35 A	FPB-2-4		32.3 MCA	9.9
27	30A/3P	15 A	FPB-2-5		14.5 MCA	4.4
28	60A/3P	40 A	FPB-2-6		37.5 MCA	11.5
29	30A/3P	35 A	FPB-2-7		32.3 MCA	9.9
30	30A/3P	15 A	FPB-2-8		14.5 MCA	4.4
31	30A/3P	20 A	ECUW-2		5.0	0.0
32	30A/3P	22 A	EUH-1		3.3	0.0
33	30A/3P	15 A	BP-1		1.3	1.1
34	30A/3P		SPARE			
35	30A/3P		SPARE			
36	60A/3P	50 A	FOOD TRUCK OUTLET		12.0	9.6
37	60A/3P	50 A	FOOD TRUCK OUTLET		12.0	9.6
38	30A/3P	15 A	VAV-1-1		14.5 MCA	4.4
39	30A/3P	15 A	VAV-2-1		19.1 MCA	5.8
40	3P		SPACE			
41	3P		SPACE			
42	3P		SPACE			
TOTAL CALCULATED LOAD:				448 KVA	308 KVA	
				1247 A	857 A	

## GENERAL RISER NOTES:

- REFER TO SHEET E000 FOR ELECTRICAL LEGEND AND GENERAL NOTES, SHEET E020 FOR WIRE SCHEDULES AND SHEET E040 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.
- PROVIDE GROUNDING AND BONDING PER NEC 250.  
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 POUR 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 METES 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 BUSSED 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 AND 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 MAU AND SF FOR KITCHEN HOOD. COORDINATE ALL REQUIREMENTS WITH MECHANICAL AND FIRE SUPPRESSION SYSTEM PROVIDER. REFER TO DETAILS ON SHEET E500.
- EXACT TYPE, QUANTITIES AND LOCATIONS OF EV CHARGING STATIONS TO BE VERIFIED WITH OWNER PRIOR TO ROUGH IN. INFORMATION INDICATED ARE BASED ON RESEARCHER (2)-48A 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 (90 CHARGERS). (30) DUAL EV CHARGING STATIONS TO BE INSTALLED AND (40) ARE FUTURE.

PROJECT #  
2024-010.00SHEET #  
**E-010**





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#	DESCRIPTION	DATE
1	Bid Set	01/24/2025
2	Addendum 1	02/20/2025

KEY PLAN

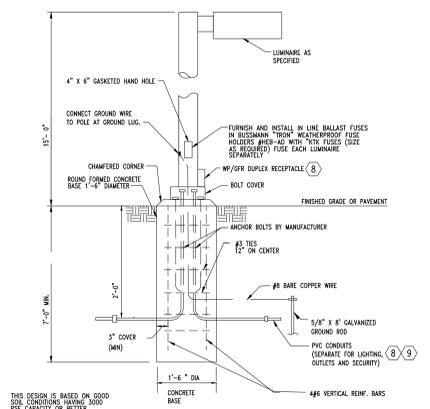
SHEET TITLE  
Site Plan - Electrical

PROJECT #  
2024-010.00

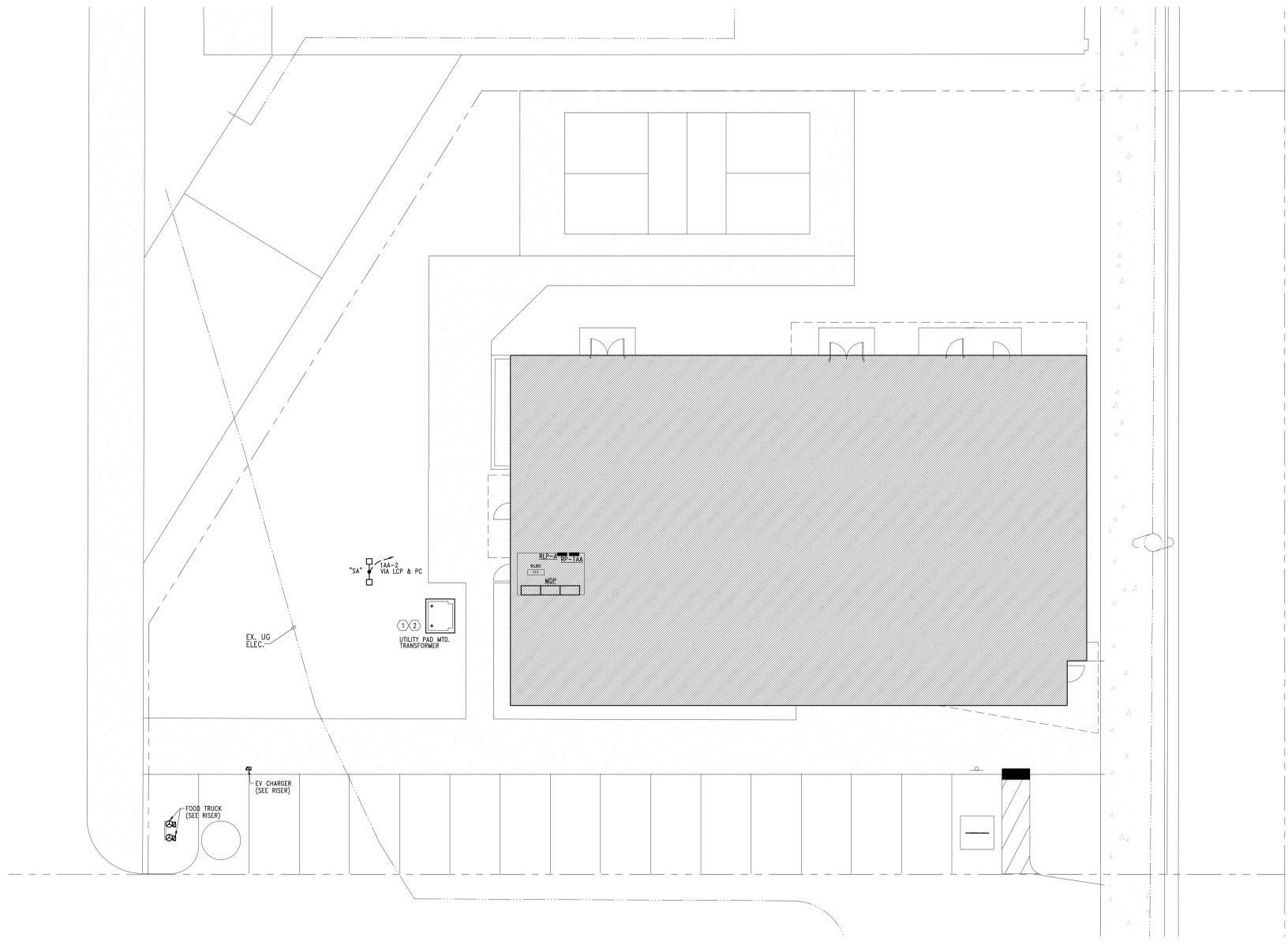
SHEET #  
**E-100**

LIGHTING FIXTURE SCHEDULE						
Label	Manufacturer	Catalog Number	Description	VOLT	LUMENS PER LAMP	WATT
SA	Lithonia Lighting	DS11 LED P3 40K T4LG MVOLT (62/2/0/2)	POLE MOUNTED, TWO LUMINAIRES MOUNTED AT 180DEG, SQUARE STEEL POLE 0-10V DIMMING AND PHOTOCELL FULL LIGHT TO DIM CONTROL	MVOLT 120-277V	12,700LM PER LUMINAIRE	250W

MOUNTING HEIGHT: 20'



- GENERAL SITE PLAN NOTES:**
- REFER TO SHEET E-000 FOR ELECTRICAL LEGEND.
  - LOCATE SITE LIGHTING POLES MIN. 3' BEHIND THE CURB NEXT TO DRIVEWAYS AND PARKING (VEHICLE TRAFFIC AREAS). 8" CONCRETE BASE CAN BE USED THEN, IN LIEU OF THE 3"-Ø SHOWN ON THE SITE LIGHTING POLE DETAIL THIS SHEET, COORDINATE WITH ARCHITECT/OWNER.
- KEYED SITE PLAN NOTES:**
- EXACT REQUIREMENTS FOR THE INSTALLATION OF THE NEW ELECTRICAL SERVICE TO BE VERIFIED WITH THE UTILITY COMPANY, PROVIDE ALL WORK AS DIRECTED BY UTILITY COMPANY.
  - EXACT LOCATION FOR UTILITY TRANSFORMER TO BE VERIFIED WITH UTILITY CO., CIVIL AND ARCHITECT/OWNER. MAINTAIN CODE REQUIRED CLEARANCES AROUND THE EQUIPMENT AND AWAY FROM THE BUILDING.
  - PROVIDE POWER FOR ELECTRIC CAR CHARGING STATION. EXACT LOCATION AND REQUIREMENTS TO BE COORDINATED WITH ARCHITECT/OWNER. PROVIDE COMPLETE INSTALLATION, CONDUITS, WIRING AND CONNECTIONS AS INDICATED ON THE TO INTERIOR DOCUMENTS. INCLUDE 1"Ø FOR DATA CONNECTION FROM CHARGING STATION LOCATION TO INSIDE THE BUILDING. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDER AND OWNER.



**1** Site Plan - Electrical  
SCALE: 1" = 10'-0"





**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	01/24/2025
2	Addendum 1	02/20/2025

**KEY PLAN**

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

**PROJECT #**  
 2024-010.00

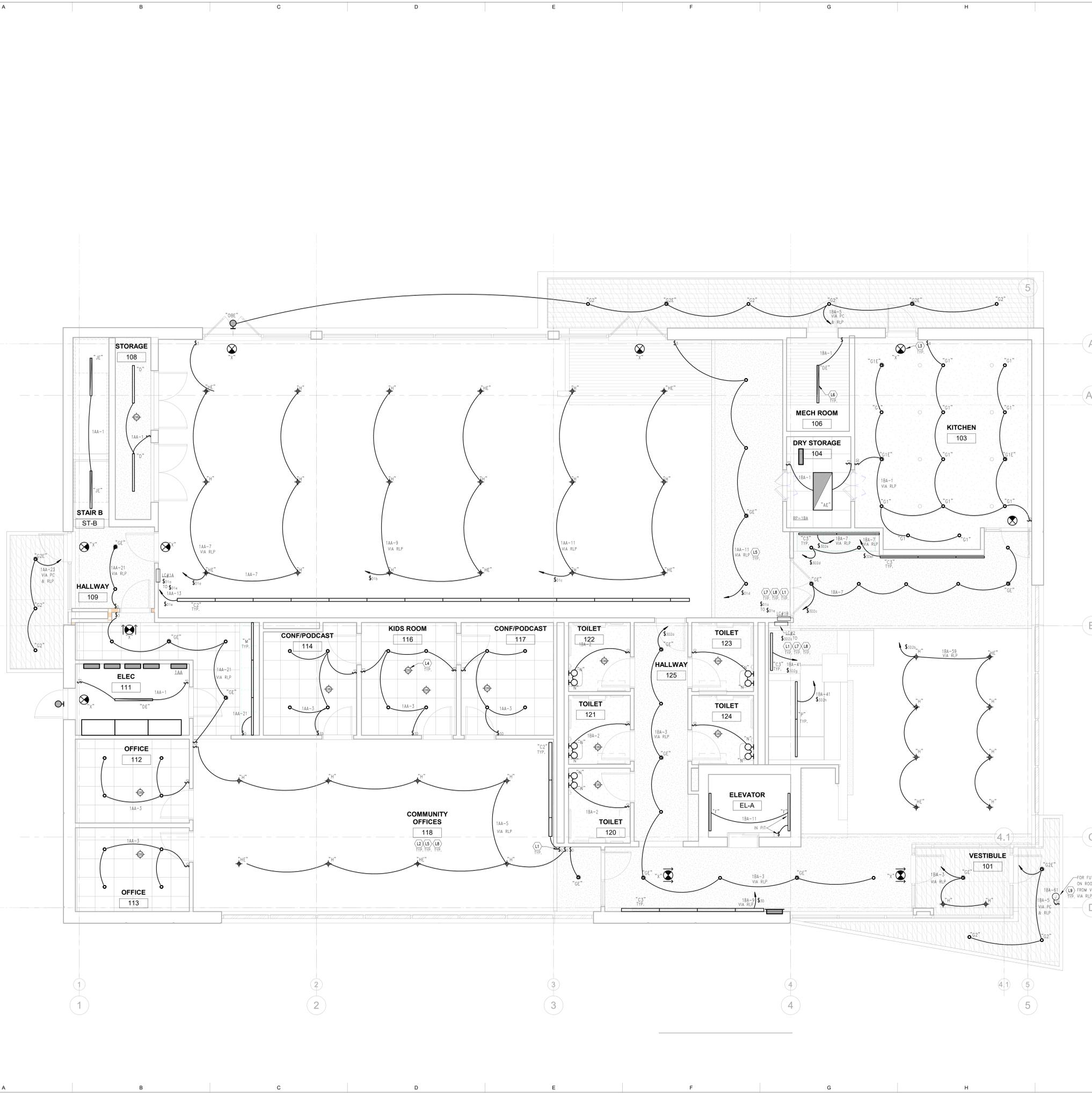
**SHEET #**  
**E-210**

**LIGHTING GENERAL NOTES:**

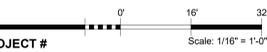
- A. ALL LIGHTING FIXTURES INDICATED ON THESE PLANS ARE TYPE "G1" UNLESS OTHERWISE NOTED.
- B. REFER TO SHEET E-000 FOR ELECTRICAL LEGEND AND SHEET E-020 FOR LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL MATRIX.
- C. REFER TO SPECIFICATIONS FOR ADDITIONAL LAMP AND BALLAST REQUIREMENTS.
- D. REFER TO 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.
- L9 PROVIDE WEATHERPROOF J-BOX AND SWITCH, FOR FUTURE SIGNAGE, REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE WITH ARCHITECT AND SIGN VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS.



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## PROJECT West Michigan Hispanic Chamber of Commerce - HQ

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Grand Rapids, MI 49507



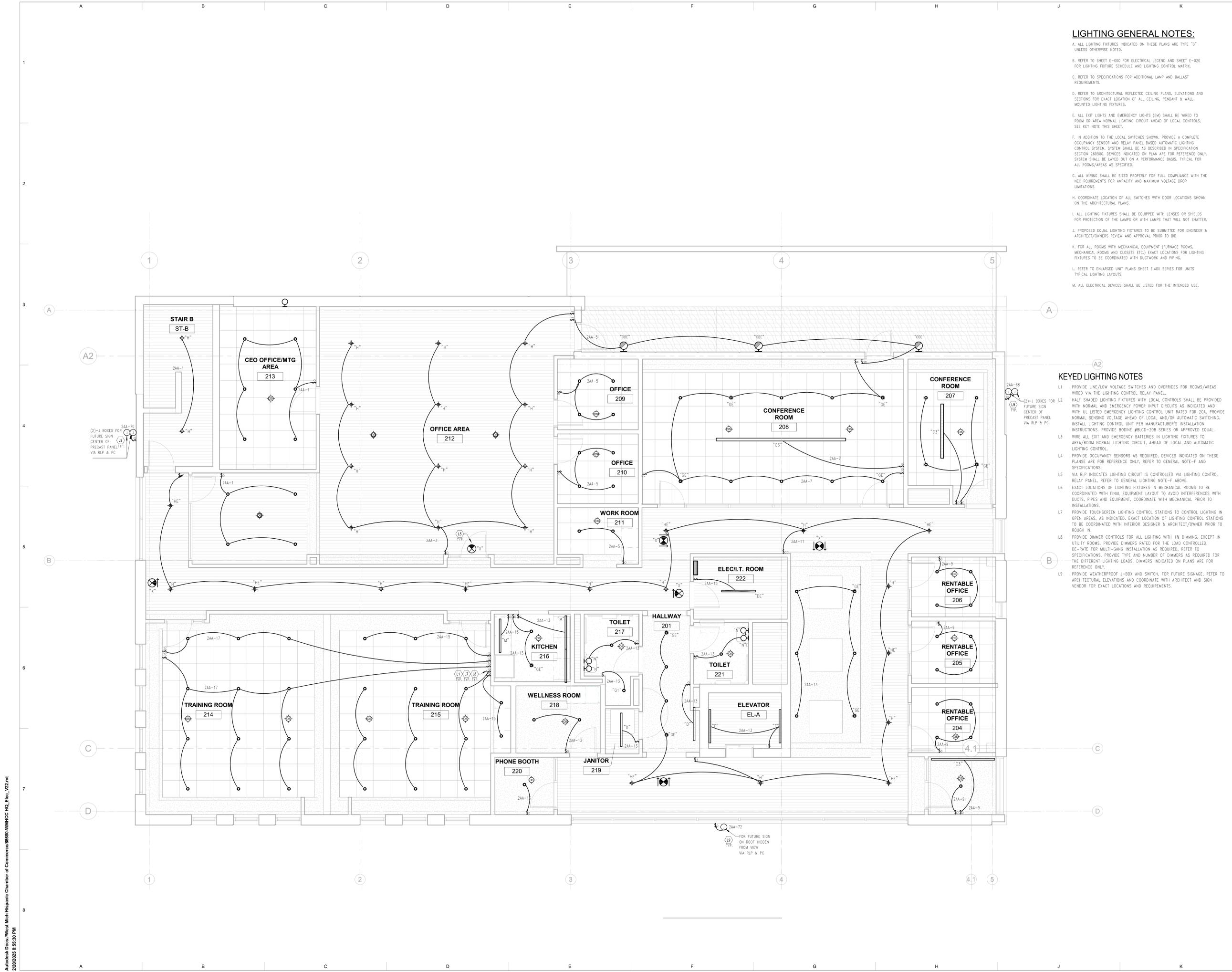
PROFESSIONAL SEAL

### LIGHTING GENERAL NOTES:

- A. ALL LIGHTING FIXTURES INDICATED ON THESE PLANS ARE TYPE "G" 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.
- L9 PROVIDE WEATHERPROOF J-BOX AND SWITCH, FOR FUTURE SIGNAGE, REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE WITH ARCHITECT AND SIGN VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS.



KEY PLAN

SHEET TITLE  
Floor Plan - Level 2 - Lighting

PROJECT #  
2024-010.00

SHEET #  
E-220

PROJECT

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

1111 Godfrey Ave. SW  
Grand Rapids, MI 49507

CONSULTANT



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

PROFESSIONAL SEAL

**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.
- C. PROVIDE BRANCH CIRCUITS, BOXES, CONDUIT STUBS, DEVICES AND EQUIPMENT FOR INTERCOM, SECURITY, LOCK SYSTEM, SOUND SYSTEMS, AND OTHER LOW VOLTAGE SYSTEMS. REFER TO DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- D. PROVIDE FIRE STOPPING SYSTEM WHERE REQUIRED TO MAINTAIN THE FIRE RESISTANCE RATING OF ALL THE ASSEMBLIES.
- E. EXACT LOCATIONS AND REQUIREMENTS FOR ALL EQUIPMENT SHALL BE VERIFIED WITH ARCHITECT/OWNER AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
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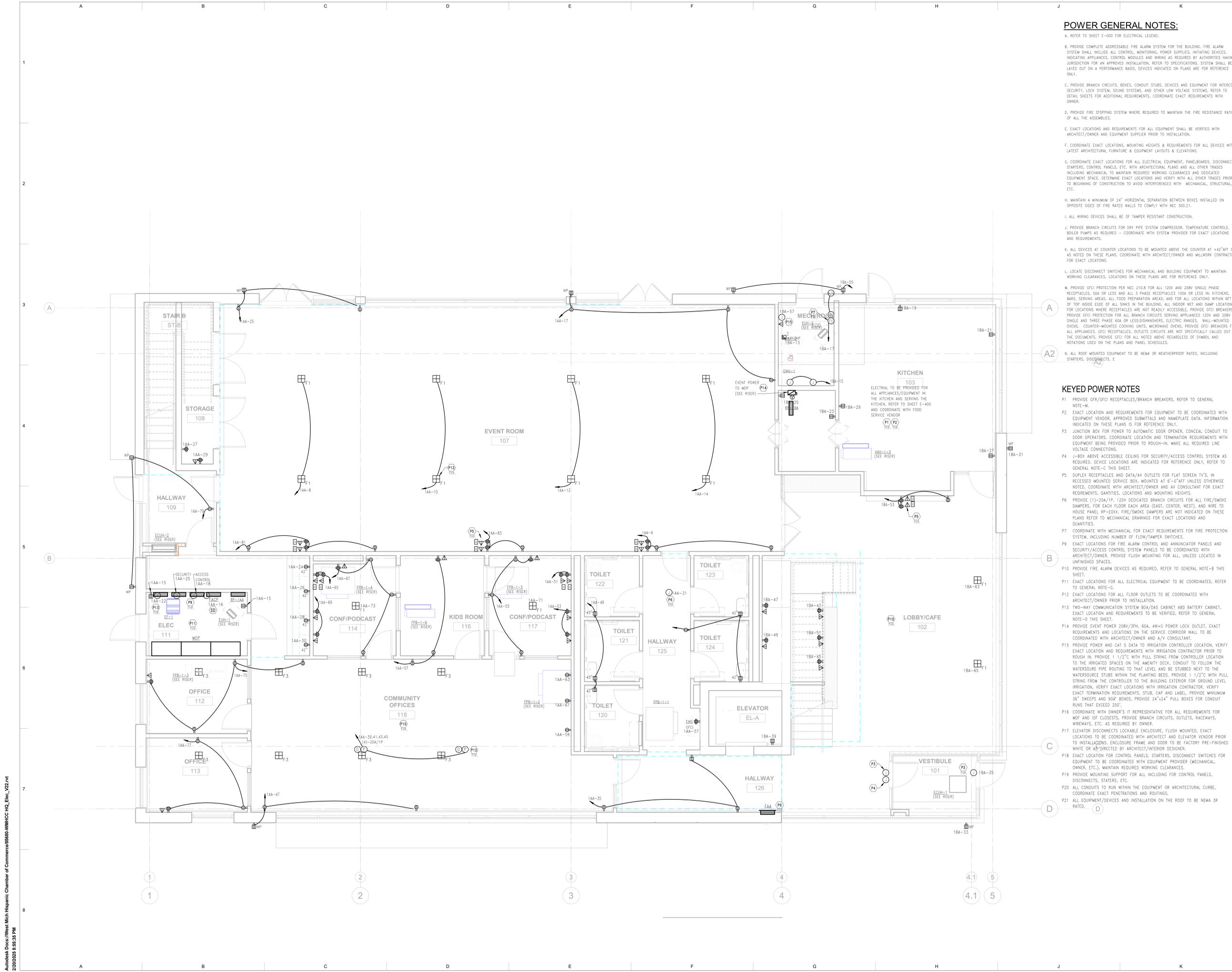
#	DESCRIPTION	DATE
1	Bid Set	01/24/2025
2	Addendum 1	02/20/2025

KEY PLAN

SHEET TITLE  
Floor Plan - Level 1 - Power

PROJECT #  
2024-010.00

SHEET #  
**E-310**



Autodesk Docs/West Mich Hispanic Chamber of Commerce/WHCHC HQ\_Elec\_V02.rvt  
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**PROJECT**

## West Michigan Hispanic Chamber of Commerce - HQ

1111 Godfrey Ave. SW  
Grand Rapids, MI 49507

**CONSULTANT**



180 High Oak Road  
Bloomfield Hills, Michigan 48304

1(248) 258-1160  
1(248) 258-1938

**PROFESSIONAL SEAL**

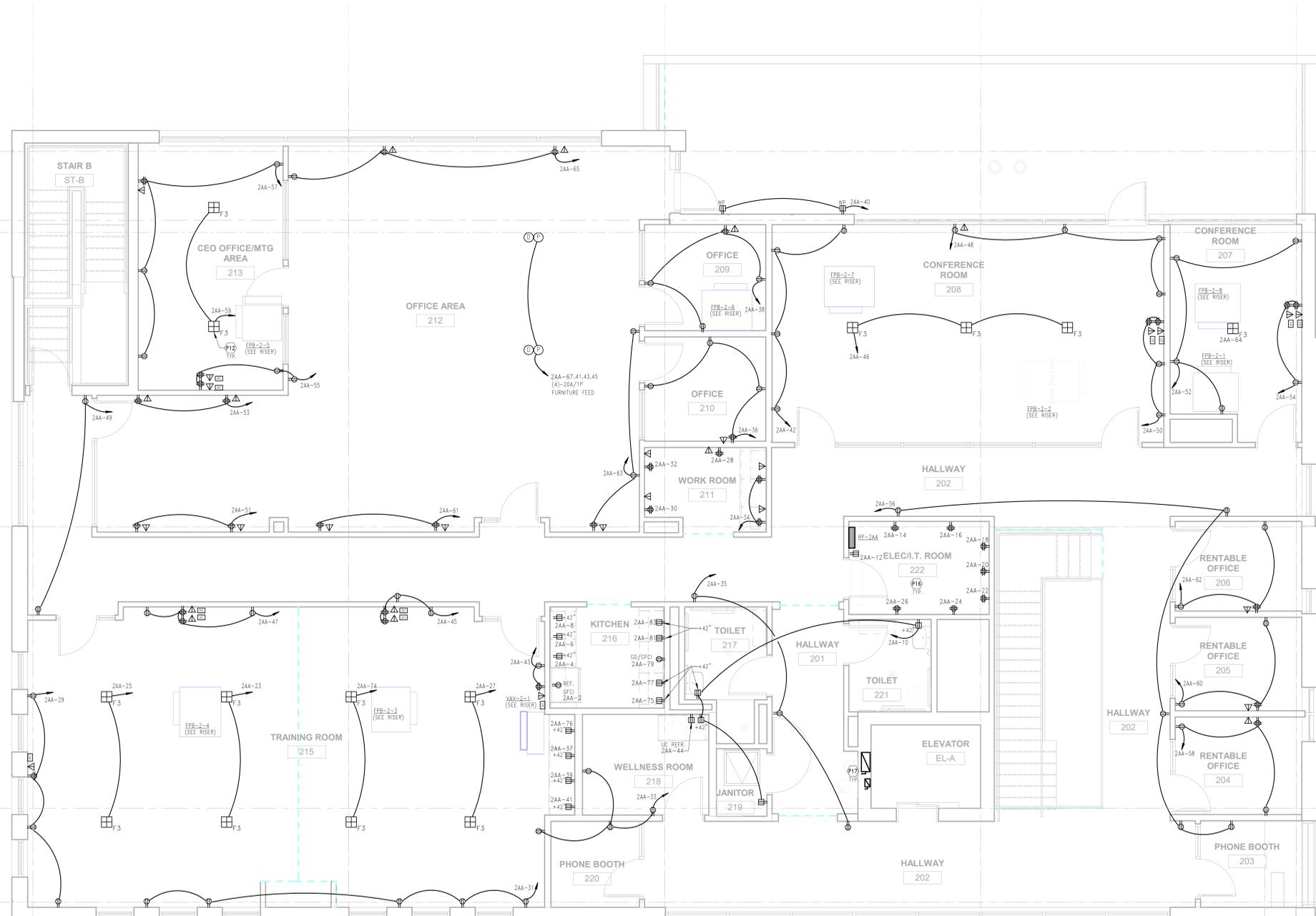
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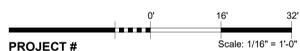
**KEY PLAN**



**SHEET TITLE**  
Floor Plan - Level 2 - Power

**PROJECT #**  
2024-010.00

**SHEET #**  
**E-320**



30x42

**PROJECT**

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

1111 Godfrey Ave. SW  
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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- P20 ALL EQUIPMENT/DEVICES AND INSTALLATION ON THE ROOF TO BE NEMA 3R RATED.

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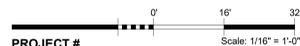
#	DESCRIPTION	DATE
1	Bid Set	01/24/2025
2	Addendum 1	02/20/2025

**KEY PLAN**

**SHEET TITLE**  
Roof Plan - Power

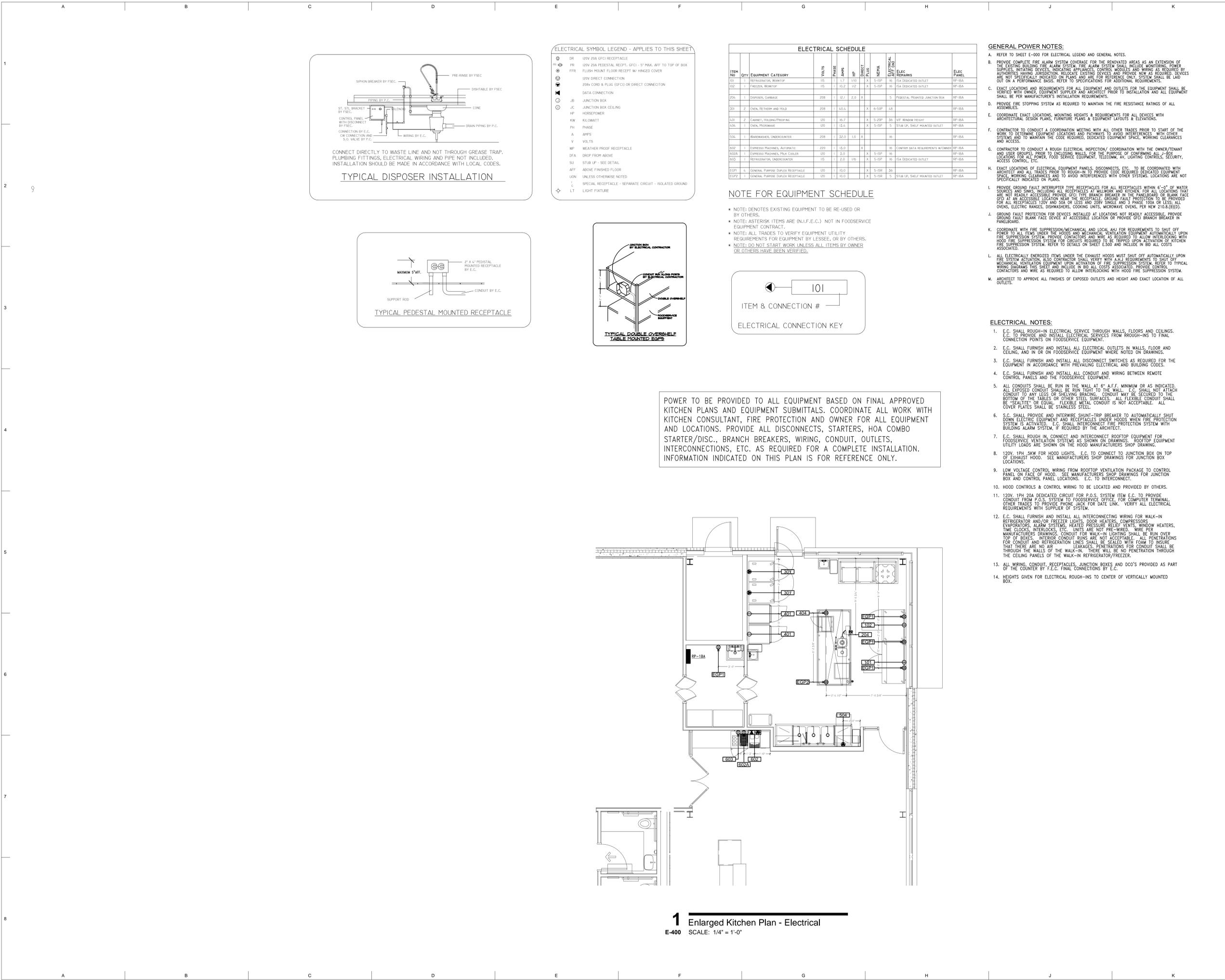
**PROJECT #**  
2024-010.00

**SHEET #**  
**E-330**





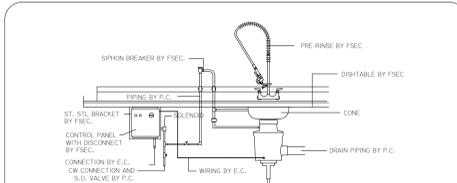
#	DESCRIPTION	DATE
1	1. Bid Set	01/24/2023
2	2. Addendum 1	02/20/2023



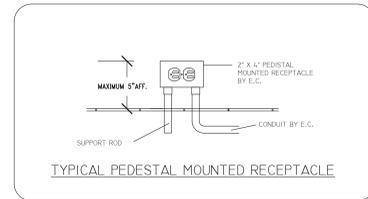
1  
2  
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8

**ELECTRICAL SYMBOL LEGEND - APPLIES TO THIS SHEET**

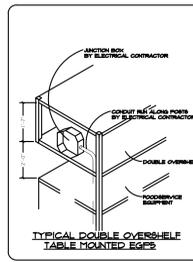
	DR	120V 25A GFCI RECEPTACLE
	FR	120V 25A PEDESTAL RECEPT. GFCI - 5" MAX. AFF TO TOP OF BOX
	FFR	FLUSH MOUNT FLOOR RECEPT W/ HINGED COVER
	DC	120V DIRECT CONNECTION
	DCC	200V CORD & PLUG (GFCI) OR DIRECT CONNECTION
	DCO	DATA CONNECTION
	JB	JUNCTION BOX
	JC	JUNCTION BOX CEILING
	HP	HORSEPOWER
	KW	KILOWATT
	PH	PHASE
	A	AMPS
	V	VOLTS
	WP	WEATHER PROOF RECEPTACLE
	DFA	DROP FROM ABOVE
	SU	STUB UP - SEE DETAIL
	AFF	ABOVE FINISHED FLOOR
	UN	UNLESS OTHERWISE NOTED
	I	SPECIAL RECEPTACLE - SEPARATE CIRCUIT - ISOLATED GROUND
	LT	LIGHT FIXTURE



TYPICAL DISPOSER INSTALLATION



TYPICAL PEDESTAL MOUNTED RECEPTACLE



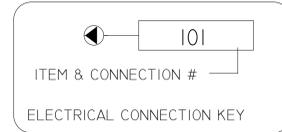
TYPICAL DOUBLE OVERSHELF TABLE MOUNTED EDGE

**ELECTRICAL SCHEDULE**

ITEM NO.	QTY	EQUIPMENT CATEGORY	VOLTS	PHASE	AMPS	HP	DIRECT FLUID	NEHA	ELECTRICAL DATA	ELEC. PANEL	
001		REFRIGERATION, WORKTOP	115	1	1.7	1/10	X	5-15P	10	ISA DEDICATED OUTLET	RP-1BA
002	11	FREEZER, WORKTOP	115	1	10.2	1/2	X	5-15P	10	ISA DEDICATED OUTLET	RP-1BA
204		DISHWASHER, CABINAGE	208	1	12.1	2.0	X		5	PEDESTAL MOUNTED JUNCTION BOX	RP-1BA
301	2	OVEN, BROTHER AND HOLD	208	1	40.4		X	6-30P	45		RP-1BA
401	2	CABINET, HOLDING/PROOF ING	120	1	16.7		X	5-20P	56	W/ WINDOW HEIGHT	RP-1BA
404	1	OVEN, PROOF MAKE	120	1	13.4		X	5-15P	5	STUB UP, SHELF MOUNTED OUTLET	RP-1BA
504	1	WASHER/DISHER, UNDERCOUNTER	208	1	32.0	1.0	X		10		RP-1BA
602	1	EXPRESSO MACHINE, AUTOMATIC	220	1	15.0		X		10	CONFIRM DATA REQUIREMENTS W/ OWNER	RP-1BA
603A		EXPRESSO MACHINE, PINK COLOUR	120	1	3.0		X	5-15P	60		RP-1BA
603	1	REFRIGERATOR, UNDERCOUNTER	115	1	2.0	1/6	X	5-15P	10	ISA DEDICATED OUTLET	RP-1BA
EGFP1	A	GENERAL PURPOSE DUPLEX RECEPTACLE	120	1	15.0		X	5-15P	56	STUB UP, SHELF MOUNTED OUTLET	RP-1BA
EGFP2		GENERAL PURPOSE DUPLEX RECEPTACLE	120	1	15.0		X	5-15P	5	STUB UP, SHELF MOUNTED OUTLET	RP-1BA

**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 OWNERS OR OTHERS HAVE BEEN VERIFIED.

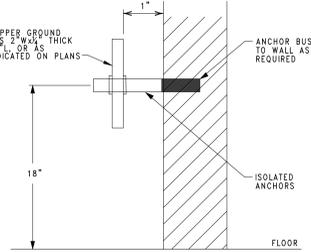


POWER TO BE PROVIDED TO ALL EQUIPMENT BASED ON FINAL APPROVED KITCHEN PLANS AND EQUIPMENT SUBMITTALS. COORDINATE ALL WORK WITH KITCHEN CONSULTANT, FIRE PROTECTION AND OWNER FOR ALL EQUIPMENT AND LOCATIONS. PROVIDE ALL DISCONNECTS, STARTERS, HOA COMBO STARTER/DISC., BRANCH BREAKERS, WIRING, CONDUIT, OUTLETS, INTERCONNECTIONS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. INFORMATION INDICATED ON THIS PLAN IS FOR REFERENCE ONLY.

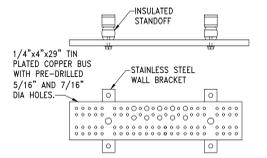
- GENERAL POWER NOTES:**
- REFER TO SHEET E-000 FOR ELECTRICAL LEGEND AND GENERAL NOTES.
  - PROVIDE COMPLETE FIRE ALARM SYSTEM COVERAGE FOR THE RENOVATED AREAS AS AN EXTENSION OF THE EXISTING BUILDING FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL INCLUDE MONITORING, POWER SUPPLIES, INITIATING DEVICES, INDICATING APPLIANCES, CONTROL MODULES AND WIRING AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. RELOCATE EXISTING DEVICES AND PROVIDE NEW AS REQUIRED. DEVICES ARE NOT SPECIFICALLY INDICATED ON PLANS AND ARE FOR REFERENCE ONLY. SYSTEM SHALL BE LAID OUT ON A PERFORMANCE BASIS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - EXACT LOCATIONS AND REQUIREMENTS FOR ALL EQUIPMENT AND OUTLETS FOR THE EQUIPMENT SHALL BE IDENTIFIED WITH OWNER, EQUIPMENT SUPPLIER AND PROTECT PRIOR TO INSTALLATION AND ALL EQUIPMENT SHALL BE PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
  - PROVIDE FIRE STOPPING SYSTEM AS REQUIRED TO MAINTAIN THE FIRE RESISTANCE RATINGS OF ALL ASSEMBLIES.
  - COORDINATE EXACT LOCATIONS, MOUNTING HEIGHTS & REQUIREMENTS FOR ALL DEVICES WITH ARCHITECTURAL DESIGN PLANS, FURNITURE PLANS & EQUIPMENT LAYOUTS & ELEVATIONS.
  - CONTRACTOR TO CONDUCT A COORDINATION MEETING WITH ALL OTHER TRADES PRIOR TO START OF THE WORK TO DETERMINE EQUIPMENT LOCATIONS AND PATHWAYS TO AVOID INTERFERENCES WITH OTHER SYSTEMS AND TO MAINTAIN THE CODE REQUIRED, DEDICATED EQUIPMENT SPACE, WORKING CLEARANCES AND ACCESS.
  - CONTRACTOR TO CONDUCT A ROUGH ELECTRICAL INSPECTION COORDINATION WITH THE OWNER/TEENANT AND USER GROUP(S) PRIOR TO ENCLOSING WALLS. FOR THE PURPOSE OF CONFIRMING ALL J-BOX LOCATIONS FOR ALL POWER, FOOD SERVICE EQUIPMENT, TELECOMM, AV, LIGHTING CONTROLS, SECURITY, ACCESS CONTROL, ETC.
  - EXACT LOCATIONS OF ELECTRICAL EQUIPMENT PANELS, DISCONNECTS, ETC. TO BE COORDINATED WITH ARCHITECT AND ALL TRADES PRIOR TO ROUGH-IN TO PROVIDE CODE REQUIRED DEDICATED EQUIPMENT SPACE, WORKING CLEARANCES AND TO AVOID INTERFERENCES WITH OTHER SYSTEMS. LOCATIONS ARE NOT SPECIFICALLY INDICATED ON PLANS.
  - PROVIDE GROUND FAULT INTERRUPTER TYPE RECEPTACLES FOR ALL RECEPTACLES WITHIN 6'-0" OF WATER SOURCES AND SINKS, INCLUDING ALL RECEPTACLES AT MILLWORK AND KITCHEN. FOR ALL LOCATIONS THAT ARE NOT READILY ACCESSIBLE PROVIDE GFCI TYPE BRANCH BREAKER IN THE PANELBOARD OR BLANK FACE GFCI AT AN ACCESSIBLE LOCATION NEAR THE RECEPTACLE. GROUND FAULT PROTECTION TO BE PROVIDED FOR ALL RECEPTACLES 120V AND 50A OR LESS AND 208V SINGLE AND 3 PHASE 100A OR LESS; ALL OVENS, ELECTRIC RANGES, DISHWASHERS, COOKING UNITS, MICROWAVE OVENS, PER NEC 210.8(B)(3).
  - GROUND FAULT PROTECTION FOR DEVICES INSTALLED AT LOCATIONS NOT READILY ACCESSIBLE, PROVIDE GROUND FAULT BLANK FACE DEVICE AT ACCESSIBLE LOCATION OR PROVIDE GFCI BRANCH BREAKER IN PANELBOARD.
  - COORDINATE WITH FIRE SUPPRESSION/MECHANICAL AND LOCAL AHJ FOR REQUIREMENTS TO SHUT OFF POWER TO ALL ITEMS UNDER THE HOODS AND MECHANICAL VENTILATION EQUIPMENT AUTOMATICALLY UPON FIRE SUPPRESSION SYSTEM ACTIVATION. PROVIDE CONDUITS AND WIRE AS REQUIRED TO ALLOW INTERLOCKING WITH HOOD FIRE SUPPRESSION SYSTEM FOR CIRCUITS REQUIRED TO BE TRIPPED UPON ACTIVATION OF KITCHEN FIRE SUPPRESSION SYSTEM. REFER TO DETAILS ON SHEET E500 AND INCLUDE IN BID ALL COSTS ASSOCIATED.
  - ALL ELECTRICALLY ENERGIZED ITEMS UNDER THE EXHAUST HOODS MUST SHUT OFF AUTOMATICALLY UPON FIRE SUPPRESSION SYSTEM ACTIVATION. ALSO CONTRACTOR SHALL VERIFY WITH AHJ REQUIREMENTS TO SHUT OFF MECHANICAL VENTILATION EQUIPMENT UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM. REFER TO TYPICAL WIRING DIAGRAMS THIS SHEET AND INCLUDE IN BID ALL COSTS ASSOCIATED. PROVIDE CONTROL CONTACTORS AND WIRE AS REQUIRED TO ALLOW INTERLOCKING WITH HOOD FIRE SUPPRESSION SYSTEM.
  - CONTRACTOR TO APPROVE ALL FINISHES OF EXPOSED OUTLETS AND HEIGHT AND EXACT LOCATION OF ALL OUTLETS.

**ELECTRICAL NOTES:**

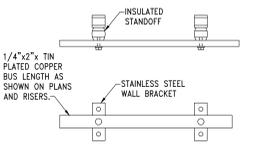
- E.C. SHALL ROUGH-IN ELECTRICAL SERVICE THROUGH WALLS, FLOORS AND CEILING. E.C. TO PROVIDE AND INSTALL ELECTRICAL SERVICES FROM ROUGH-INS TO FINAL CONNECTION POINTS ON FOODSERVICE EQUIPMENT.
- E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL OUTLETS IN WALLS, FLOOR AND CEILING, AND IN OR ON FOODSERVICE EQUIPMENT WHERE NOTED ON DRAWINGS.
- E.C. SHALL FURNISH AND INSTALL ALL DISCONNECT SWITCHES AS REQUIRED FOR THE EQUIPMENT IN ACCORDANCE WITH PREVAILING ELECTRICAL AND BUILDING CODES.
- E.C. SHALL FURNISH AND INSTALL ALL CONDUIT AND WIRING BETWEEN REMOTE CONTROL PANELS AND THE FOODSERVICE EQUIPMENT.
- ALL CONDUITS SHALL BE RUN IN THE WALL AT 6" A.F.F. MINIMUM OR AS INDICATED. ALL EXPOSED CONDUIT SHALL BE RUN RIGHT TO THE WALL. E.C. SHALL NOT ATTACH CONDUIT TO ANY LEGS OR SHELVING BRACING. CONDUIT MAY BE SECURED TO THE BOTTOM OF THE TABLES OR OTHER STEEL SURFACES. ALL FLEXIBLE CONDUIT SHALL BE "SEALTITE" OR EQUAL. FLEXIBLE METAL CONDUIT IS NOT ACCEPTABLE. ALL COVER PLATES SHALL BE STAINLESS STEEL.
- S.C. SHALL PROVIDE AND INTERWIRE SHUNT-TRIP BREAKER TO AUTOMATICALLY SHUT DOWN ELECTRIC EQUIPMENT AND RECEPTACLES UNDER HOODS WHEN FIRE PROTECTION SYSTEM IS ACTIVATED. E.C. SHALL INTERCONNECT FIRE PROTECTION SYSTEM WITH BUILDING ALARM SYSTEM, IF REQUIRED BY THE ARCHITECT.
- E.C. SHALL ROUGH IN, CONNECT AND INTERCONNECT ROOFTOP EQUIPMENT FOR FOODSERVICE VENTILATION SYSTEMS AS SHOWN ON DRAWINGS. ROOFTOP EQUIPMENT UTILITY LOADS ARE SHOWN ON THE HOOD MANUFACTURER'S SHOP DRAWING.
- 120V, 1PH, 3W FOR HOOD LIGHTS. E.C. TO CONNECT TO JUNCTION BOX ON TOP OF EXHAUST HOOD. SEE MANUFACTURER'S SHOP DRAWINGS FOR JUNCTION BOX LOCATIONS.
- LOW VOLTAGE CONTROL WIRING FROM ROOFTOP VENTILATION PACKAGE TO CONTROL PANEL ON FACE OF HOOD. SEE MANUFACTURER'S SHOP DRAWINGS FOR JUNCTION BOX AND CONTROL PANEL LOCATIONS. E.C. TO INTERCONNECT.
- HOOD CONTROLS & CONTROL WIRING TO BE LOCATED AND PROVIDED BY OTHERS.
- 120V, 1PH, 20A DEDICATED CIRCUIT FOR P.O.S. SYSTEM ITEM E.C. TO PROVIDE CONDUIT FROM P.O.S. SYSTEM TO FOODSERVICE OFFICE. FOR COMPUTER TERMINAL OTHER TRADES TO PROVIDE PHONE JACK FOR DATA LINK. VERIFY ALL ELECTRICAL REQUIREMENTS WITH SUPPLIER OF SYSTEM.
- E.C. SHALL FURNISH AND INSTALL ALL INTERCONNECTING WIRING FOR WALK-IN REFRIGERATOR AND/OR FREEZER LIGHTS, DOOR HEATERS, COMPRESSORS, EVAPORATORS, ALARM SYSTEMS, HEATED PRESSURE RELIEF VENTS, WINDOW HEATERS, TIME CLOCKS, INTERLOCKS, ETC. UNITS ARE NOT PRE-WIRED. WIRE PER MANUFACTURER'S DRAWINGS. CONDUIT FOR WALK-IN LIGHTING SHALL BE RUN OVER TOP OF BOXES. INTERIOR CONDUIT RUNS ARE NOT ACCEPTABLE. ALL PENETRATIONS FOR CONDUIT AND REFRIGERATION LINES SHALL BE SEALED WITH FOAM TO INSURE THAT THERE ARE NO AIR LEAKAGES. PENETRATIONS FOR CONDUIT SHALL BE THROUGH THE WALLS OF THE WALK-IN. THERE WILL BE NO PENETRATION THROUGH THE CEILING PANELS OF THE WALK-IN REFRIGERATOR/FREEZER.
- ALL WIRING, CONDUIT, RECEPTACLES, JUNCTION BOXES AND DDO'S PROVIDED AS PART OF THE COUNTER BY F.E.C. FINAL CONNECTIONS BY E.C.
- HEIGHTS GIVEN FOR ELECTRICAL ROUGH-INS TO CENTER OF VERTICALLY MOUNTED BOX.



GROUND BUS DETAIL  
SCALE: NTS

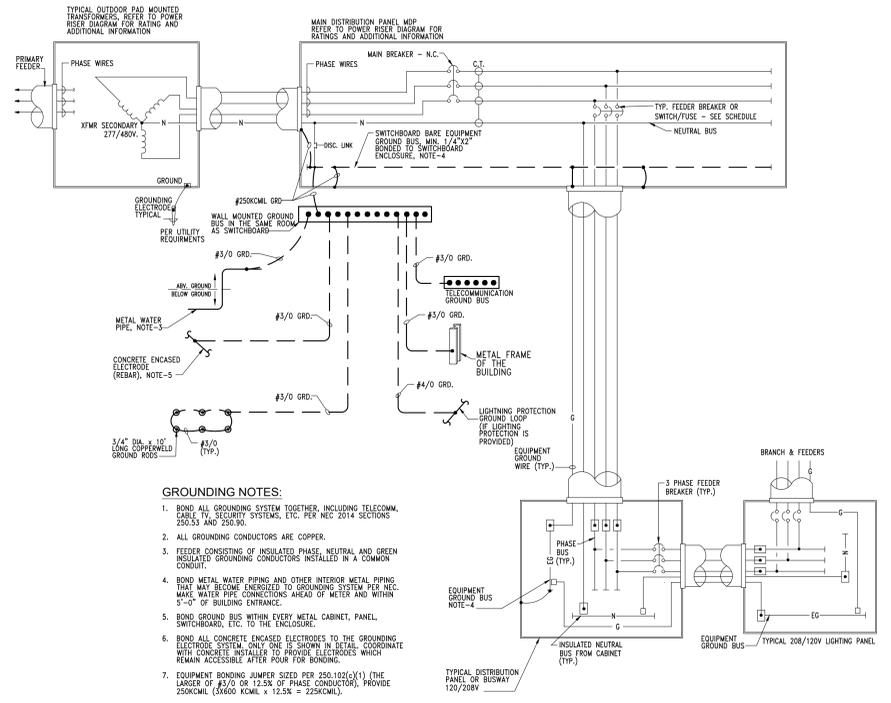


TYPICAL TELECOMMUNICATION ROOM GROUND BUS ASSEMBLY



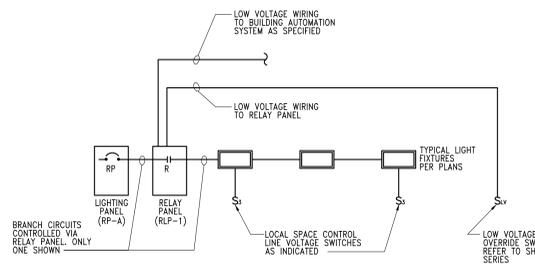
TYPICAL TELECOMMUNICATION ROOM GROUND BUS ASSEMBLY

TYPICAL GROUND BUS ASSEMBLIES  
SCALE: NO SCALE

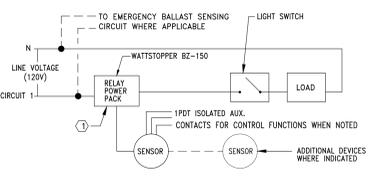


- GROUNDING NOTES:**
1. BOND ALL GROUNDING SYSTEM TOGETHER, INCLUDING TELECOM, CABLES AND SECURITY SYSTEMS, ETC. PER NEC 2014 SECTION 250.28.
  2. ALL GROUNDING CONDUCTORS ARE COPPER.
  3. FEEDER CONSISTING OF INSULATED PHASE, NEUTRAL AND GREEN INSULATED GROUNDING CONDUCTORS INSTALLED IN A COMMON CONDUIT.
  4. 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\"/>
  5. BOND GROUND BUS WITHIN EVERY METAL CABINET, PANEL, SWITCHBOARD, ETC. TO THE ENCLOSURE.
  6. 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.
  7. EQUIPMENT BONDING JUMPER SIZED PER 250.102(1) (THE LARGER OF #3/0 OR 12.5% OF PHASE CONDUCTOR). PROVIDE 250KCMIL (5060 KCMIL x 12.5% = 250KCMIL).

ELECTRICAL SYSTEM GROUNDING SCHEME  
Schematic Only

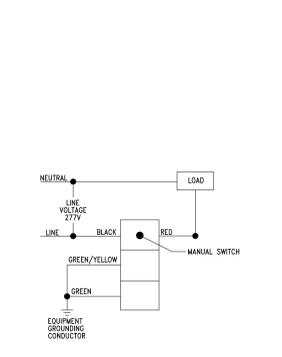


AUTOMATIC LIGHTING CONTROL OVERRIDE SCHEMATIC DIAGRAM  
No Scale

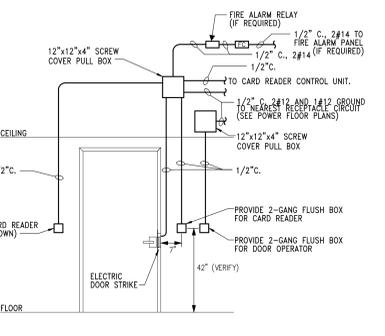


- KEY NOTES:**
1. OCCUPANCY SENSOR MODEL NUMBERS WIRING DIAGRAMS AND CONDUCTOR COLORS ARE BASED ON WATTSTOPPER, EQUAL EQUIPMENT ON THE MSH PREFERRED MANUFACTURERS LIST MAY BE USED. MODIFY DIAGRAMS ACCORDINGLY PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INDICATE ON AS-BUILT DOCUMENTS.

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

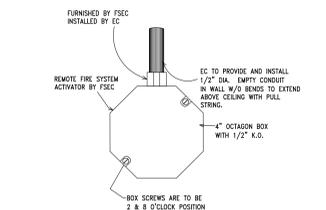


WALL MOUNTED SENSOR  
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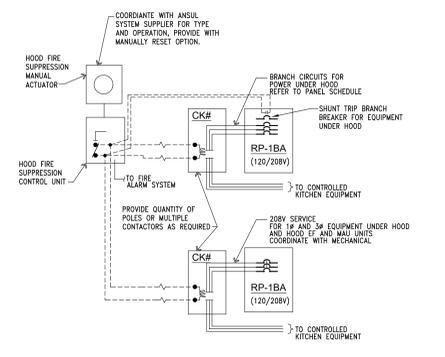


1. ALL WORK SHOWN ON THIS DETAIL IS BY ELECTRICAL CONTRACTOR INCLUDING BUT NOT LIMITED TO: WIRING, CONDUIT, WIRING, CARD READER HARDWARE AND PANEL INSTALLATION IS DONE BY SECURITY CONTRACTOR.
2. PROVIDE INDOOR PULL STRINGS IN ALL CONDUITS FOR LOW VOLTAGE CABLES.

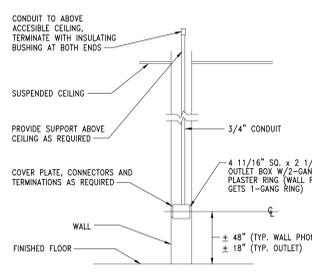
TYPICAL CARD READER DOOR DETAIL  
SCALE: NO SCALE



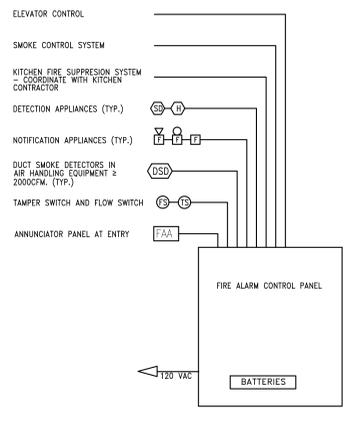
ANSUL FIRE SYSTEM REMOTE PULL STATION DETAIL  
Schematic Only



WIRING SCHEMATIC FOR HOOD FIRE SUPPRESSION SYSTEM  
Schematic Only



TYPICAL TELECOMMUNICATION OUTLET DETAIL  
No Scale



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

FIRE ALARM SYSTEM RISER  
Schematic Only

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#	DESCRIPTION	DATE
1.	Bid Set	01/24/2025
2.	Addendum 1	02/20/2025

KEY PLAN

SHEET TITLE  
Electrical Details

PROJECT #  
2024-010.00

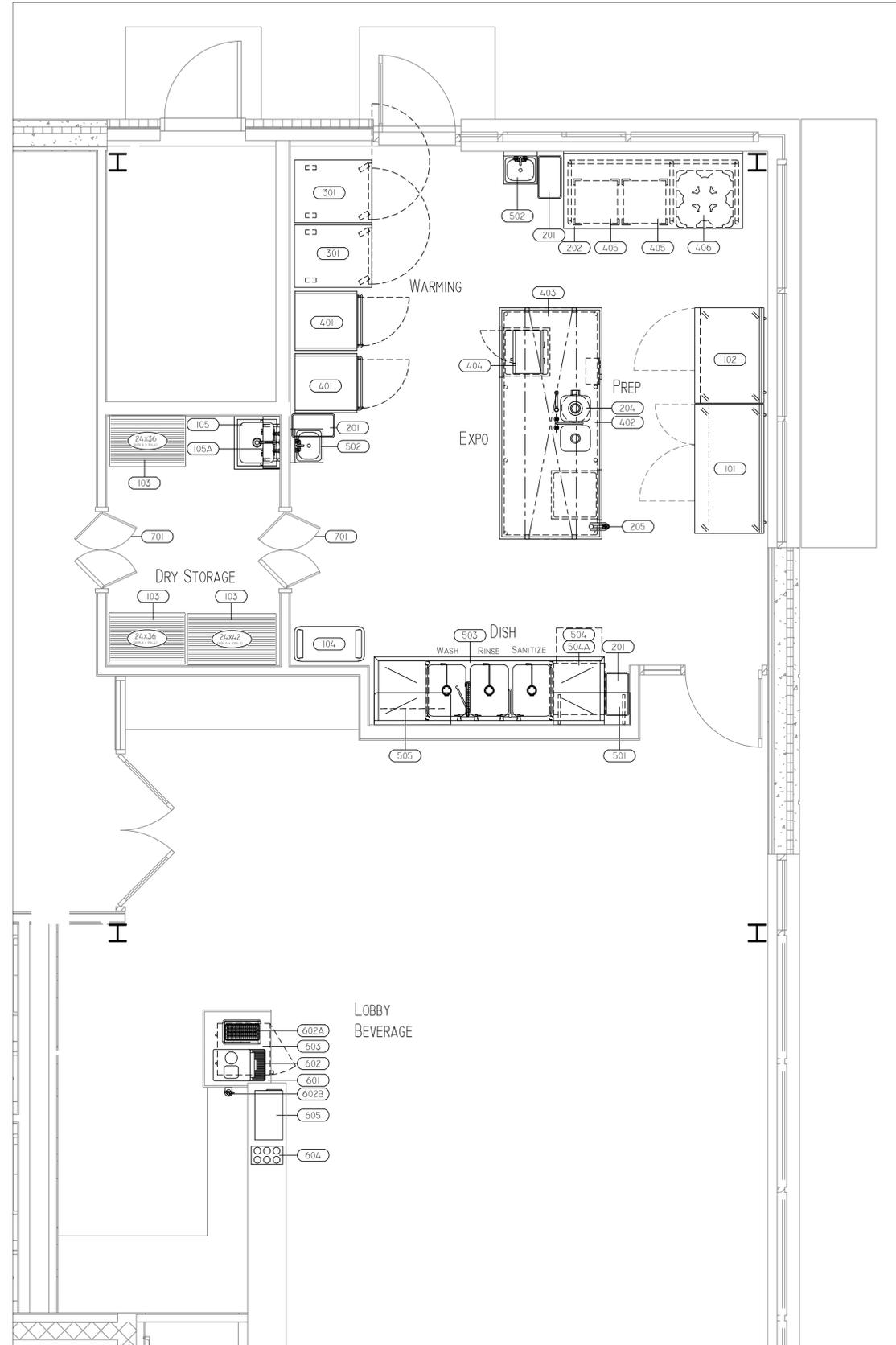
SHEET #  
**E-500**





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-IN 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"

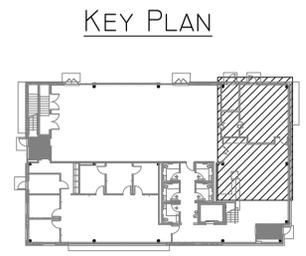
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 DATE: \_\_\_\_\_

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



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, MILK COOLER	
602B	1	FILTER SYSTEM, ESPRESSO MACHINE	
603	1	REFRIGERATOR, UNDERCOUNTER	
604	1	BOTTLE ORGANIZER	
605	1	CUP DISPENSER	
701	2	KITCHEN SWING DOOR	

**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  
 1111 GODFREY AVE  
 GRAND RAPIDS, MI 49507

DOCUMENT ISSUE DATE

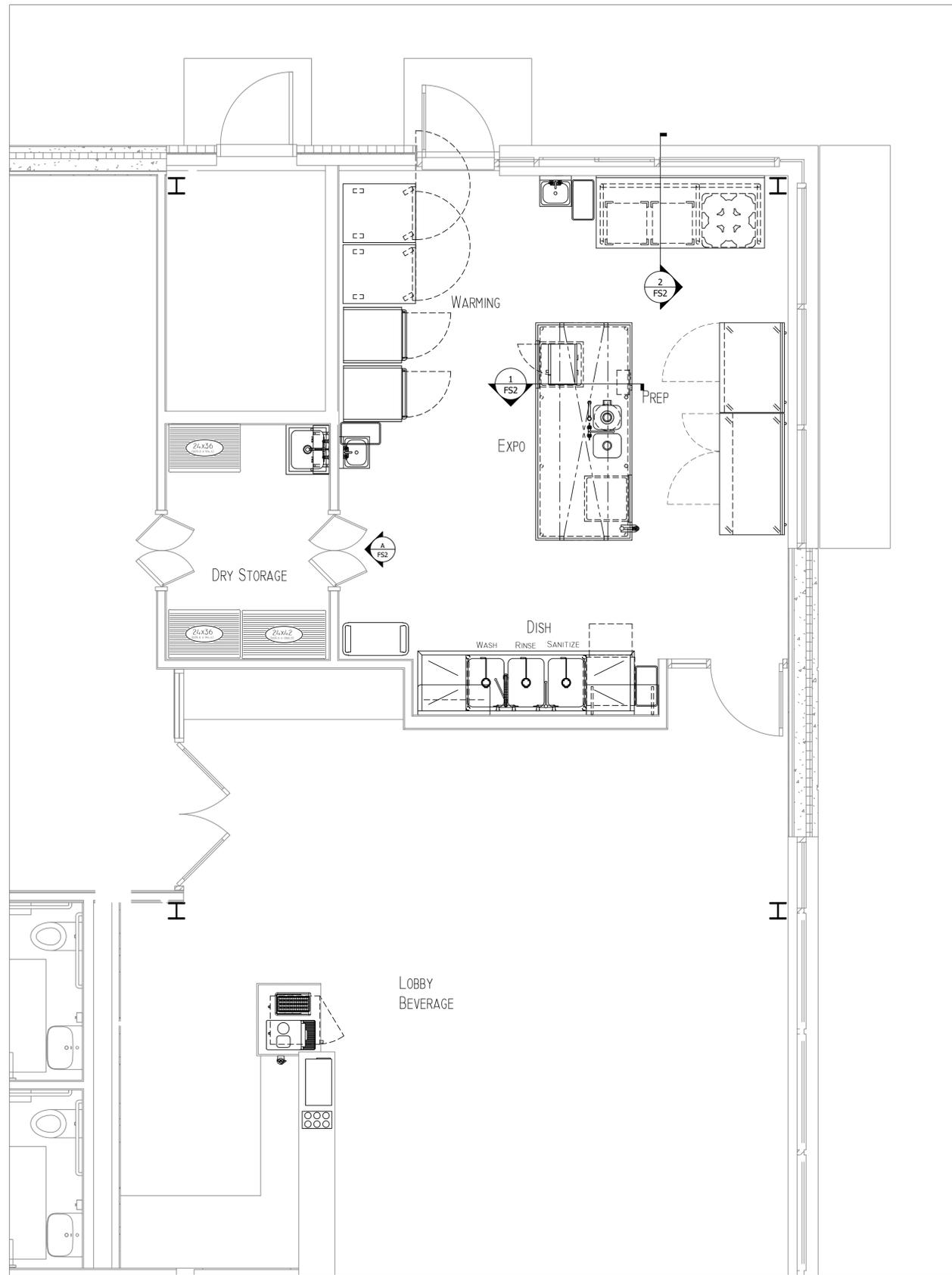
DATE	ISSUE
02/18/2025	SCHEMATIC DESIGN
01/10/2025	SCHEMATIC DESIGN
01/09/2025	SCHEMATIC DESIGN
02/07/2025	DESIGN DEVELOPMENT
02/18/2025	CONSTRUCTION DOCS.

REVISIONS

NO.	DATE	DESCRIPTION
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FLOOR PLAN  
 SCALE: 3/8"=1'  
 SHEET NO.  
 FS-1  
 PROJECT NO.: -  
 DATE: 02/18/2025

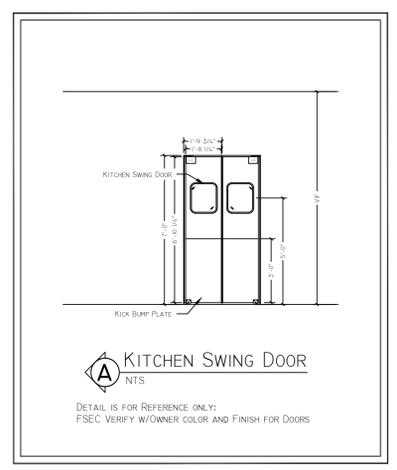
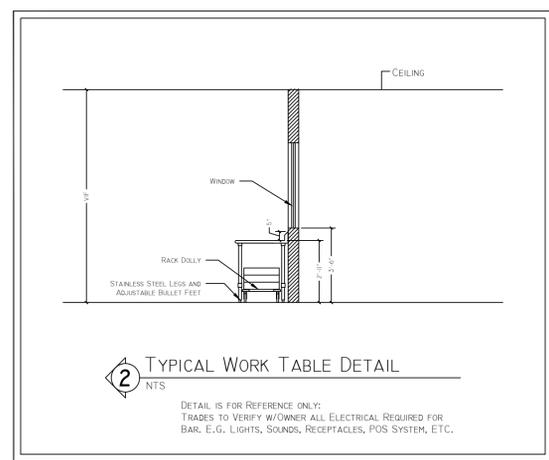
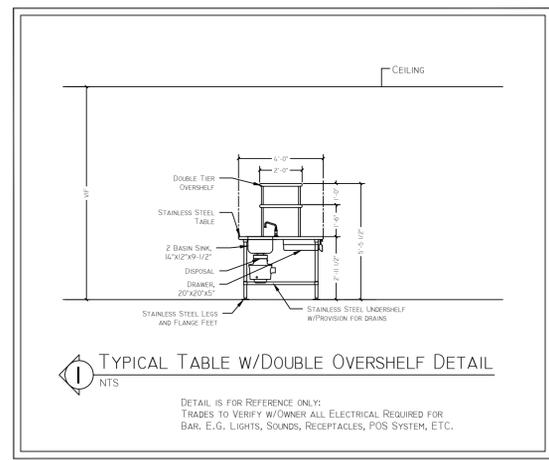


**DETAIL PLAN**  
SCALE: 1/4" = 1'-0"

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WEST MICHIGAN HISPANIC CHAMBER OF COMMERCE  
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DOCUMENT ISSUE DATE

DATE	ISSUE
02/07/2025	Design Development
02/18/2025	Construction Docs

REVISIONS

NO.	DATE	DESCRIPTION
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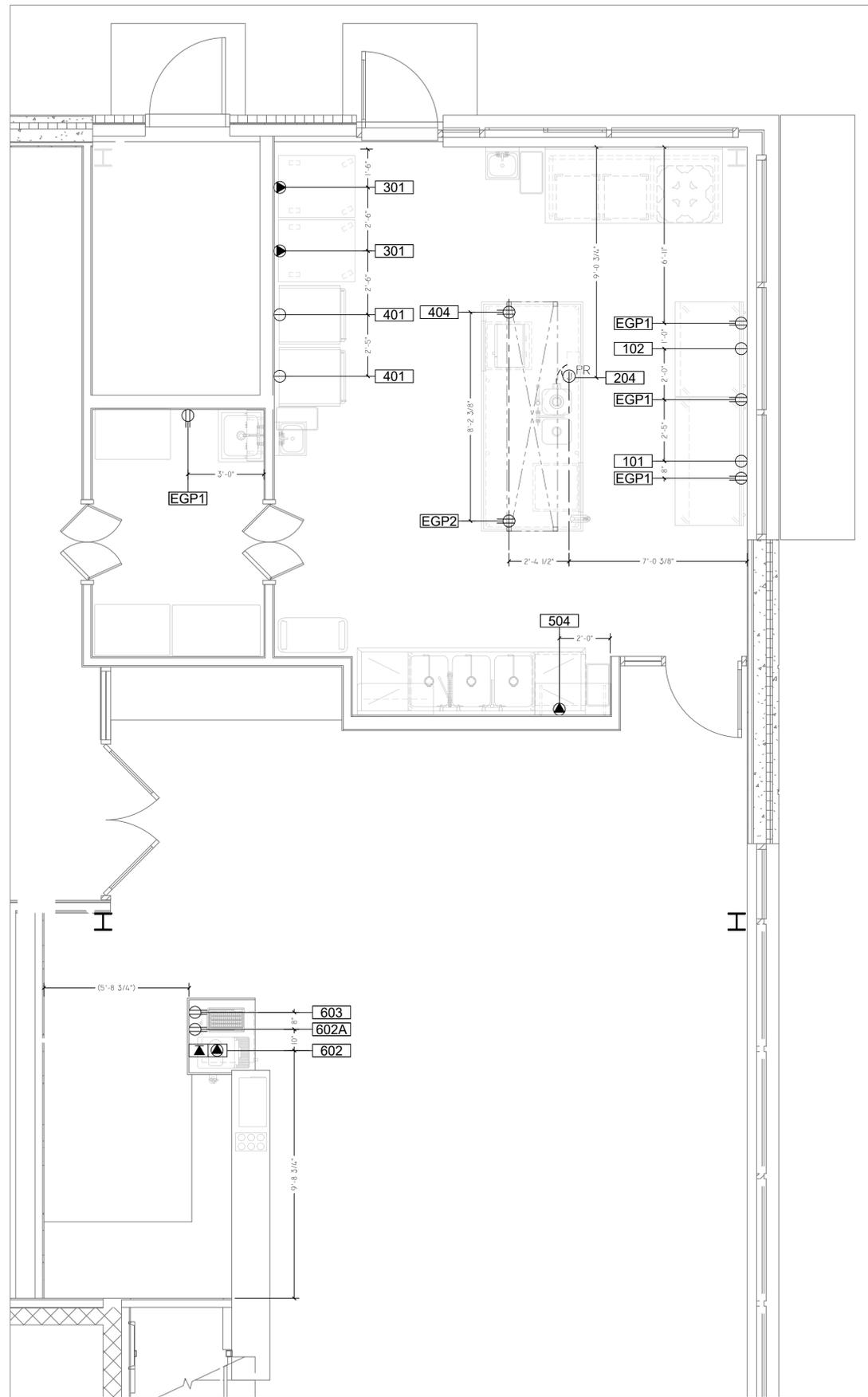
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DETAIL PLAN  
 SCALE: 3/8"=1'  
 SHEET NO.  
 FS-2  
 PROJECT NO. -  
 DATE: 02/18/2025

**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.

ELECTRICAL NOTES:

- E.C. SHALL ROUGH-IN ELECTRICAL SERVICE THROUGH WALLS, FLOORS AND CEILINGS. E.C. TO PROVIDE AND INSTALL ELECTRICAL SERVICES FROM ROUGH-INS TO FINAL CONNECTION POINTS ON FOODSERVICE EQUIPMENT.
  - E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL OUTLETS IN WALLS, FLOOR AND CEILING, AND IN OR ON FOODSERVICE EQUIPMENT WHERE NOTED ON DRAWINGS.
  - E.C. SHALL FURNISH AND INSTALL ALL DISCONNECT SWITCHES AS REQUIRED FOR THE EQUIPMENT IN ACCORDANCE WITH PREVAILING ELECTRICAL AND BUILDING CODES.
  - E.C. SHALL FURNISH AND INSTALL ALL CONDUIT AND WIRING BETWEEN REMOTE CONTROL PANELS AND THE FOODSERVICE EQUIPMENT.
  - ALL CONDUITS SHALL BE RUN IN THE WALL AT 6" A.F.F. MINIMUM OR AS INDICATED. ALL EXPOSED CONDUIT SHALL BE RUN TIGHT TO THE WALL. E.C. SHALL NOT ATTACH CONDUIT TO ANY LEGS OR SHELVING BRACINGS. CONDUIT MAY BE SECURED TO THE BOTTOM OF THE TABLES OR OTHER STEEL SURFACES. ALL FLEXIBLE CONDUIT SHALL BE "SEALTITE" OR EQUAL. FLEXIBLE METAL CONDUIT IS NOT ACCEPTABLE. ALL COVER PLATES SHALL BE STAINLESS STEEL.
  - S.C. SHALL PROVIDE AND INTERWIRE SHUNT-TRIP BREAKER TO AUTOMATICALLY SHUT DOWN ELECTRIC EQUIPMENT AND RECEPTACLES UNDER HOODS WHEN FIRE PROTECTION SYSTEM IS ACTIVATED. E.C. SHALL INTERCONNECT FIRE PROTECTION SYSTEM WITH BUILDING ALARM SYSTEM, IF REQUIRED BY THE ARCHITECT.
  - E.C. SHALL ROUGH IN, CONNECT AND INTERCONNECT ROOFTOP EQUIPMENT FOR FOODSERVICE VENTILATION SYSTEMS AS SHOWN ON DRAWINGS. ROOFTOP EQUIPMENT UTILITY LOADS ARE SHOWN ON THE HOOD MANUFACTURERS SHOP DRAWING.
  - 120V, 1PH .5KW FOR HOOD LIGHTS. E.C. TO CONNECT TO JUNCTION BOX ON TOP OF EXHAUST HOOD. SEE MANUFACTURERS SHOP DRAWINGS FOR JUNCTION BOX LOCATIONS.
  - LOW VOLTAGE CONTROL WIRING FROM ROOFTOP VENTILATION PACKAGE TO CONTROL PANEL ON FACE OF HOOD. SEE MANUFACTURERS SHOP DRAWINGS FOR JUNCTION BOX AND CONTROL PANEL LOCATIONS. E.C. TO INTERCONNECT.
  - HOOD CONTROLS & CONTROL WIRING TO BE LOCATED AND PROVIDED BY OTHERS.
  - 120V, 1PH 20A DEDICATED CIRCUIT FOR P.O.S. SYSTEM ITEM #XX. E.C. TO PROVIDE CONDUIT FROM P.O.S. SYSTEM TO FOODSERVICE OFFICE, FOR COMPUTER TERMINAL. OTHER TRADES TO PROVIDE PHONE JACK FOR DATA LINK. VERIFY ALL ELECTRICAL REQUIREMENTS WITH SUPPLIER OF SYSTEM.
  - E.C. SHALL FURNISH AND INSTALL ALL INTERCONNECTING WIRING FOR WALK-IN REFRIGERATOR AND/OR FREEZER LIGHTS, DOOR HEATERS, COMPRESSORS EVAPORATORS, ALARM SYSTEMS, HEATED PRESSURE RELIEF VENTS, WINDOW HEATERS, TIME CLOCKS, INTERLOCKS, ETC. UNITS ARE NOT PRE-WIRED. WIRE PER MANUFACTURERS DRAWINGS.
- CONDUIT FOR WALK-IN LIGHTING SHALL BE RUN OVER TOP OF BOXES. INTERIOR CONDUIT RUNS ARE NOT ACCEPTABLE. ALL PENETRATIONS FOR CONDUIT AND REFRIGERATION LINES SHALL BE SEALED WITH FOAM TO INSURE THAT THERE ARE NO AIR LEAKAGES.
- PENETRATIONS FOR CONDUIT SHALL BE THROUGH THE WALLS OF THE WALK-IN. THERE WILL BE NO PENETRATION THROUGH THE CEILING PANELS OF THE WALK-IN REFRIGERATOR/FREEZER.
- ALL WIRING, CONDUIT, RECEPTACLES, JUNCTION BOXES AND DCO'S PROVIDED AS PART OF THE COUNTER BY F.E.C. FINAL CONNECTIONS BY E.C.
  - HEIGHTS GIVEN FOR ELECTRICAL ROUGH-INS TO CENTER OF VERTICALLY MOUNTED BOX.



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

**ELECTRICAL NOTE:**  
ROUGH-INS SHOWN ARE FOR FOODSERVICE EQUIPMENT ONLY. REFER TO OTHER PLANS FOR ALL OTHER ELECTRICAL REQUIREMENTS INCLUDING P.O.S. SYSTEMS, PHONE SYSTEMS, ALARM SYSTEMS, SECURITY SYSTEMS, H.V.A.C. SYSTEMS, LIGHTING AND SOUND SYSTEMS, CONVENIENCE OUTLETS AND ALL OTHER REQUIREMENTS.

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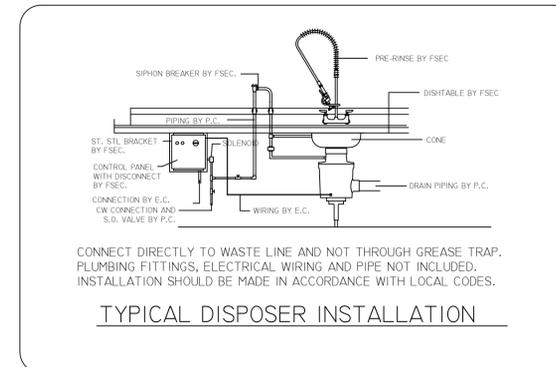
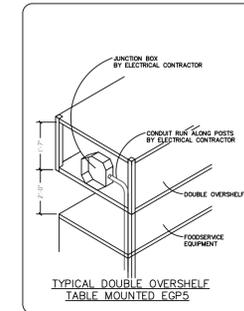
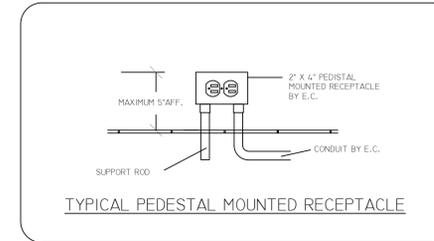
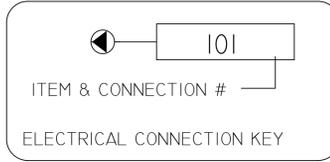
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 GRAND RAPIDS, MI 49507

**ELECTRICAL SCHEDULE**

ITEM No	QTY	EQUIPMENT CATEGORY	VOLTS	PHASE	AMPS	HP	DIRECT PLUG	NEMA	ELECTRICAL AFF. (IN)	ELEC REMARKS
101	1	REFRIGERATOR, WORKTOP	115	1	1.7	1/10	X	5-15P	16	15A DEDICATED OUTLET
102	1	FREEZER, WORKTOP	115	1	10.2	1/2	X	5-15P	16	15A DEDICATED OUTLET
204	1	DISPOSER, GARBAGE	208	1	12.1	2.0	X		5	PEDESTAL MOUNTED JUNCTION BOX
301	2	OVEN, REHEAT AND HOLD	208	1	40.4		X	6-50P	48	
401	2	CABINET, HOLDING/PROOFING	120	1	16.7		X	5-20P	36	VIF WINDOW HEIGHT
404	1	OVEN, MICROWAVE	120	1	13.4		X	5-15P	5	STUB UP, SHELF MOUNTED OUTLET
504	1	WAREWASHER, UNDERCOUNTER	208	1	32.0	1.0	X		16	
602	1	ESPRESSO MACHINES, AUTOMATIC	220	1	13.0		X		16	CONFIRM DATA REQUIREMENTS W/OWNER
602A	1	ESPRESSO MACHINES, MILK COOLER	120	1	3.0		X	5-15P	16	
603	1	REFRIGERATOR, UNDERCOUNTER	115	1	2.0	1/6	X	5-15P	16	15A DEDICATED OUTLET
EGP1	4	GENERAL PURPOSE DUPLEX RECEPTACLE	120	1	10.0		X	5-15R	36	
EGP2	1	GENERAL PURPOSE DUPLEX RECEPTACLE	120	1	10.0		X	5-15R	5	STUB UP, SHELF MOUNTED OUTLET

**NOTE FOR EQUIPMENT SCHEDULE**

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**ELECTRICAL SYMBOL LEGEND**

DR	120V 20A GFI RECEPTACLE
PR	120V 20A PEDESTAL RECEPT. - 5" MAX. AFF TO TOP OF BOX
FFR	FLUSH MOUNT FLOOR RECEPT W/ HINGED COVER
	120V DIRECT CONNECTION
	208V CORD & PLUG OR DIRECT CONNECTION
	DATA CONNECTION
-B	JUNCTION BOX
-JC	JUNCTION BOX CEILING
HP	HORSEPOWER
KW	KILOWATT
PH	PHASE
A	AMPS
V	VOLTS
WP	WEATHER PROOF RECEPTACLE
DFA	DROP FROM ABOVE
SU	STUB UP - SEE DETAIL
AFF	ABOVE FINISHED FLOOR
UN	UNLESS OTHERWISE NOTED
I	SPECIAL RECEPTACLE - SEPARATE CIRCUIT - ISOLATED GROUND
LT	LIGHT FIXTURE

DOCUMENT ISSUE DATE  
 DATE: 02/18/2025  
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 NO. DATE DESCRIPTION

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ELECTRICAL PLAN  
 SCALE: 3/8" = 1'

SHEET NO.  
 FS-3

PROJECT NO. -  
 DATE: 02/18/2025

**PLUMBING NOTES:**

A. ALL GAS EQUIPMENT LOCATED BENEATH VENTILATION HOODS SHALL BE AUTOMATICALLY SHUT OFF WHEN THE FIRE PROTECTION SYSTEM IS ACTIVATED. THE FIRE SUPPRESSION SYSTEM PROVIDER SHALL PROVIDE A SOLENOID ACTIVATED GAS SHUT OFF VALVE FOR INSTALLATION BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION WITH FIRE PROTECTION SYSTEM MANUFACTURER. M.C. TO PROVIDE SEPARATE MANUAL GAS SHUT-OFF VALVE FOR EACH CONNECTION TO GAS-FIRED EQUIPMENT.

B. ALL REQUIRED ROOF OPENINGS, STRUCTURAL SUPPORT, FLASHING, ETC., SHALL BE PERFORMED BY TRADES OTHER THAN MERCHANDISE EQUIPMENT AND SUPPLY.

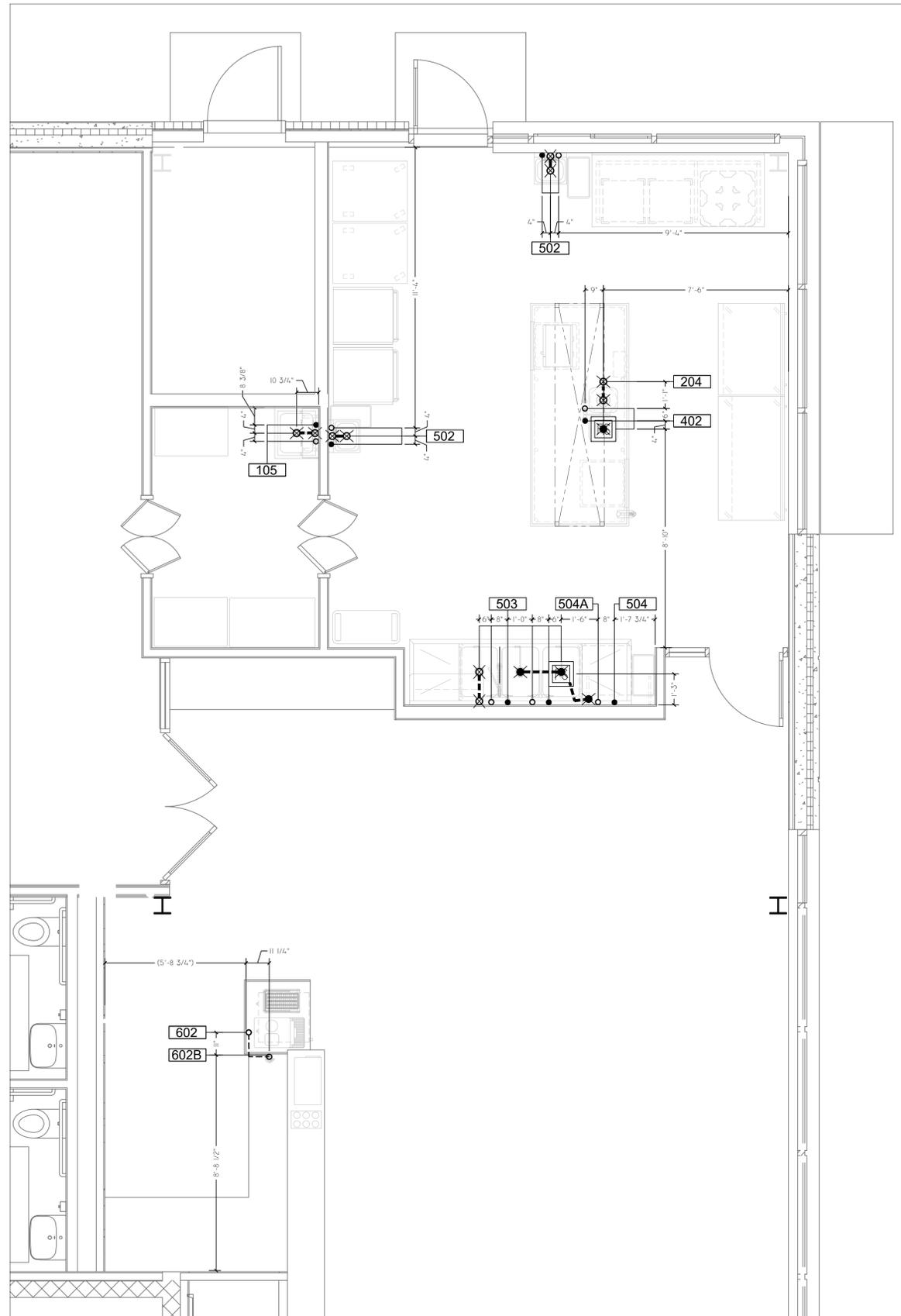
C. M.C. SHALL ROUGH IN UTILITY LINES THROUGH WALLS, FLOORS AND CEILINGS, CONNECT WASTE LINES FROM ROUGH INS AND MAKE ALL CONNECTIONS TO THE FOODSERVICE EQUIPMENT. M.C. TO PROVIDE ALL TRAPS, MANIFOLDS AND PIPING REQUIRED TO INTERCONNECT SINK DRAINS AS SHOWN. M.C. TO PROVIDE ALL TRAPS, VALVES, PIPING, ETC. NEEDED FOR INSTALLATION OF FOODSERVICE EQUIPMENT. ALL EXPOSED PIPING (ABOVE COUNTER HEIGHT OR IN A DIRECT LINE OF SIGHT) SHALL

D. BE STAINLESS STEEL OR CHROME PLATED. INSTALL STAINLESS STEEL OR CHROME PLATED BRASS ESCUTCHEONS OR FLANGES FOR UTILITY LINES WHICH EXTEND THROUGH WALLS AND EQUIPMENT. M.C. SHALL PROVIDE AND INSTALL ALL REQUIRED VACUUM BREAKERS. VACUUM BREAKERS, APPROVED BY THE ADPH.

E. MUST BE PROVIDED ON ALL DISPOSERS, HOSE REELS, PRESSURE WASHERS AND ON ALL BEVERAGE EQUIPMENT REQUIRING A WATER CONNECTION. ALL ATMOSPHERIC VACUUM BREAKERS MUST BE LOCATED DOWNSTREAM OF SHUT OFF VALVES IN ACCORDANCE WITH HEALTH DEPARTMENT CODES.

F. MC SHALL ROUGH IN AND CONNECT GAS PIPING TO ROOFTOP FOODSERVICE VENTILATION SYSTEMS S SHOWN ON DRAWINGS.

G. MC TO INSTALL GAS SHUT OFF VALVE PROVIDED BY THE FIRE SUPPRESSION SYSTEM PROVIDER. SEE NOTE "A".



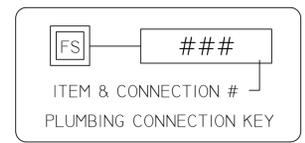
**PLUMBING PLAN**  
SCALE: 3/8" = 1'-0"

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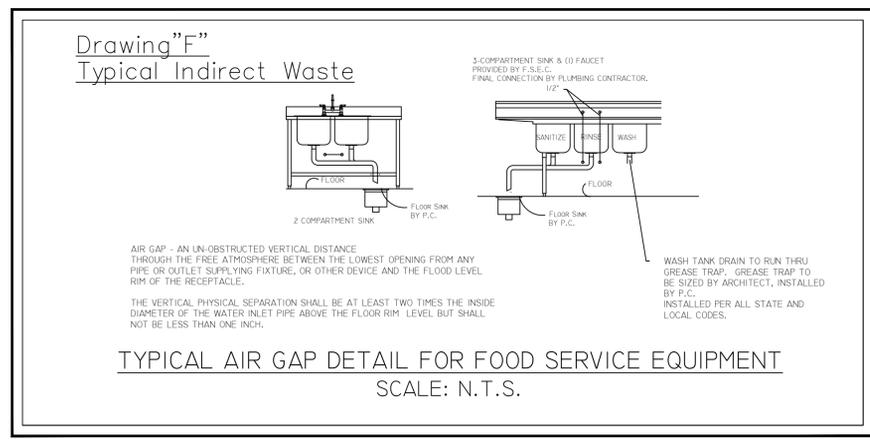
PLUMBING SCHEDULE													
ITEM No	QTY	EQUIPMENT CATEGORY	HOT WATER SIZE (IN)	HOT WATER AFF (IN)	COLD WATER SIZE (IN)	COLD WATER AFF (IN)	INDIR DRAIN SIZE (IN)	DIRECT DRAIN SIZE (IN)	DIRECT DRAIN AFF (IN)	GAS SIZE (IN)	MBTUH	GAS AFF (IN)	PLUMBING REMARKS
105	1	SINK, MOP	1/2	3/8	1/2	3/8		2	FLOOR				
204	1	DISPOSER, GARBAGE						2	FLOOR				
402	1	TABLE, WORK	1/2	5	1/2	5	FL SK						STUB UP
502	2	SINK, HAND, WALL MOUNT	1/2	18	1/2	18		1-1/2	16				
503	1	SINK, SCULLERY, 3 COMPARTMENTS	1/2	16	1/2	16	FL SK	2	12				TRADE PIPE 2" DIRECT WASTE THRU GREASE INTERCEPTOR
504	1	WAREWASHER, UNDERCOUNTER	1/2	10			FL SK						110° MIN. HW CONNECTION 70° RISE BOOSTER
504A	1	DRAIN WATER TEMPERING KIT			3/4	10	FL SK						
602	1	ESPRESSO MACHINES, AUTOMATIC			1/2	24							TRADE PIPE CW THRU FILTER TO ESPRESSO MACHINE
602B	1	FILTER SYSTEM, ESPRESSO MACHINE			1/2	24							TRADE PIPE CW THRU FILTER TO ESPRESSO MACHINE

**NOTE FOR EQUIPMENT SCHEDULE**  
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MECHANICAL SYMBOL LEGEND	
TBD	TO BE DETERMINED
DFA	DROP FROM ABOVE
BTC	BRANCH TO CONNECTION
AFP	ABOVE FINISHED FLOOR
UDN	UNLESS OTHERWISE NOTED
CFM	CUBIC FEET PER MINUTE
SP	STATIC PRESSURE
HW	HOT WATER - 25 PSI
CW	COLD WATER - 25 PSI
G	NATURAL GAS
DW	WASTE DRAIN - DIRECT CONNECTION
DW	WASTE DRAIN - INDIRECT CONNECTION
FD	FLOOR DRAIN
HD	HUB DRAIN
FFD	FUNNEL FLOOR DRAIN
FS	FLOOR SINK 12" SQ. WITH HALF GRATE
FS	FLOOR SINK 8" ROUND
EVC	EXHAUST VENT CONNECTION
MUA	MAKE UP AIR DUCT CONNECTION
BC	BEVERAGE CONDUIT WITH 24" SWEEP ENDS - BY P.T.

NOTE: PC, ARCHITECT, OWNER TO DETERMINE QUANTITY, TYPE AND LOCATION OF ANY FLOOR DRAINS FOR FOODSERVICE AREA.  
 FLOOR DRAINS SHOWN IN DRAWING ARE FOR REFERENCE ONLY.



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PLUMBING PLAN  
 SCALE: 3/8"=1'  
 SHEET NO.  
 FS-4  
 PROJECT NO.: -  
 DATE: 02/18/2025