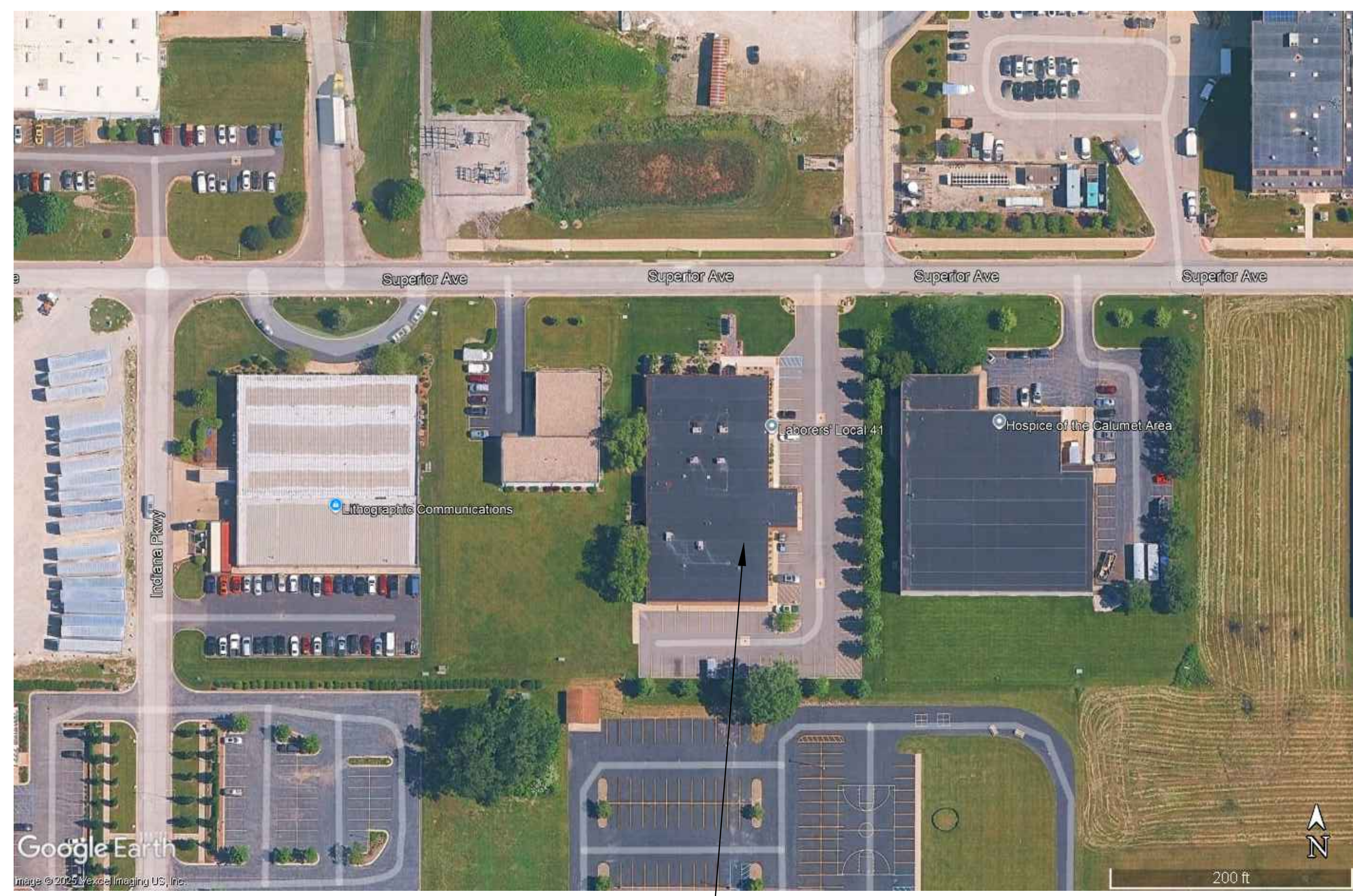


LABORERS' INTERNATIONAL UNION OF NORTH AMERICA - LOCAL 41

UNION HALL RENOVATION - 2025
550 SUPERIOR AVE.,
MUNSTER, IN, 46321

ISSUED FOR: BID 11/05/25



1 SITE LOCATION MAP PROJECT LOCATION Scale: NTS

DRAWING INDEX:

GENERAL DRAWINGS:	A10.1	SCHEDULES & DETAILS
G0.0 COVER SHEET	A10.2	SCHEDULES & DETAILS
	A13.1	STAIR SECTIONS
CIVIL DRAWINGS:	PLUMBING DRAWINGS:	
C2.0 PROPOSED SITE PLAN	P0.0 PLUMBING NOTES & SPECIFICATIONS	
STRUCTURAL DRAWINGS:	PD1.1 FIRST FLOOR PLUMBING DEMO PLAN	
S1.1 FOUNDATION PLAN	P1.1 FIRST FLOOR PLUMBING PLAN	
S1.2 FOUNDATION DETAILS	P1.2 SECOND FLOOR PLUMBING PLAN	
S2.1 FIRST FLOOR ROOF FRAMING PLAN	P2.0 PLUMBING DETAILS & SCHEDULES	
S2.2 SECOND FLOOR FRAMING PLAN		
S2.3 SECOND FLOOR ROOF FRAMING PLAN	MECHANICAL DRAWINGS:	
S3.1 STEEL FRAMING ELEVATIONS	M0.0 HVAC DETAILS & SCHEDULES	
S3.2 STEEL FRAMING ELEVATIONS	MD1.1 FIRST FLOOR HVAC DEMOLITION PLAN	
	M1.1 FIRST FLOOR HVAC PLAN	
	M1.2 SECOND FLOOR HVAC PLAN	
ARCHITECTURAL DRAWINGS:	ELECTRICAL DRAWINGS:	
A0.1 ARCHITECTURAL SPECIFICATIONS	ED1.0 DEMO LIGHTING FIRST FLOOR PLAN	
A0.2 ARCHITECTURAL SPECIFICATIONS	E1.0 LIGHTING FIRST FLOOR PLAN	
A0.3 ARCHITECTURAL SPECIFICATIONS	E1.1 LIGHTING SECOND FLOOR PLAN	
A0.4 ARCHITECTURAL SPECIFICATIONS	E2.0 POWER FIRST FLOOR PLAN	
A0.5 ARCHITECTURAL SPECIFICATIONS	E2.1 POWER SECOND FLOOR PLAN	
A0.6 ARCHITECTURAL SPECIFICATIONS	E3.0 ELECTRICAL SCHEDULES	
A0.7 FIRST FLOOR LIFE SAFETY PLAN	E3.1 ELECTRICAL SPECIFICATIONS	
A0.8 SECOND FLOOR LIFE SAFETY PLAN		
AD1.1 FIRST FLOOR DEMOLITION PLAN		
AD2.1 FIRST FLOOR CEILING DEMOLITION PLAN		
A1.1 FIRST FLOOR PLAN		
A1.2 SECOND FLOOR PLAN		
A2.1 FIRST FLOOR REFLECTED CEILING PLAN		
A2.2 SECOND FLOOR REFLECTED CEILING PLAN		
A3.1 ROOF PLAN		
A4.1 EXTERIOR ELEVATIONS		
A5.1 BUILDING SECTION		
A5.2 BUILDING SECTION		
A6.1 EXTERIOR WALL SECTIONS		
A6.2 EXTERIOR WALL SECTIONS		
A6.3 EXTERIOR WALL SECTIONS		
A6.4 EXTERIOR WALL SECTIONS		

GENERAL NOTES:

- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- SITE & OTHER DEMOLITION SHALL BE CLEAN AND COMPLETE. PATCH OR REPAIR ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO MATCH SURROUNDING SIMILAR CONSTRUCTION.
- CONTRACTOR TO PROVIDE ALL TEMPORARY SHORING, BRACING, BARRIERS, PARTITIONS, FENCING, SILT CONTROL MEASURES OR OTHER TEMPORARY FACILITIES AS REQUIRED.
- MAINTAIN EXISTING CONSTRUCTION OR UTILITIES TO REMAIN IN A SAFE AND WEATHER-TIGHT CONDITION THROUGHOUT CONSTRUCTION.
- DO NOT SCALE DRAWINGS. ALL DIMENSIONS NOTED ARE TO BE VERIFIED IN THE FIELD. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED BUILDING PERMITS AND ANY OTHER REQUIRED APPROVALS.
- ALL CONSTRUCTION AND INSTALLATION SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME AND UNDER MY DIRECT SUPERVISION AND ARE, TO THE BEST OF MY KNOWLEDGE, IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE INDIANA DEPARTMENT OF FIRE PREVENTION AND BUILDING SAFETY

DAVID R. HILL, INDIANA LICENSE #AR10600080

BUILDING CODE MATRIX:				
	REQUIRED:	ACTUAL:	SECTION:	NOTES:
OCCUPANCY (MIXED - SEPARATED)		B / S-2 / A-3	303.4/304.1/311.3	
CONSTRUCTION TYPE		TYPE III-B	TABLE 601	
SPRINKLED		NON-SPRINKLERED		
AREA LIMIT	19,909 SFT / FLR	20,983 SFT / FLR	TABLE 503	NOTE 1
HEIGHT LIMIT	2 STORIES / 55'	2 STORIES / 33'-8"	TABLE 503	NOTE 2
FIRE SEPARATION REQUIREMENTS:				
WEST WALL (10'x30')	1 HOUR	1 HOUR	TABLE 602	
FIRE RESISTANCE REQUIREMENTS:				
STRUCTURAL FRAME	0 HOUR	0 HOUR	TABLE 601	
EXTERIOR BEARING WALLS	2 HOUR	N/A	TABLE 601	
NON-BEARING WALLS (EXTERIOR)	0 HOUR	0 HOUR	TABLE 602	
NON-BEARING WALLS (INTERIOR)	0 HOUR	0 HOUR	TABLE 601	
FLOORS	0 HOUR	0 HOUR	TABLE 601	
ROOFS	0 HOUR	0 HOUR	TABLE 601	
CORRIDORS	1 HOUR	1 HOUR	TABLE 1018.1	
STAIRWAY ENCLOSURES	1 HOUR	1 HOUR	1022.2	
OCCUPANCY SEPARATION:				
HORIZONTAL (BETWEEN B & A-3)	2 HOUR	2 HOUR	420.3/711	
EGRESS REQUIREMENTS:				
OCCUPANT LOAD (FIRST FLOOR)		467 PERSONS	TABLE 1004.1.2	NOTE 3
OCCUPANT LOAD (SECOND FLOOR)		164 PERSONS	TABLE 1004.1.2	NOTE 3
CORRIDOR WIDTH	VARIES	VARIES	1023.2	NOTE 4
TRAVEL DISTANCE	200'	±157'-5" WORST CASE	TABLE 1016.2	NOTE 5
COMMON PATH OF TRAVEL	75'	±43'-5" WORST CASE	TABLE 1014.3	
DEAD END CORRIDOR LENGTH	20'	N/A	1018.4	
EGRESS WIDTH, STAIRS	49.2"	96"	1009.4	NOTE 6
EGRESS WIDTH, DOORS	126.2"	288" TOTAL	1005.3.2	NOTE 7
NUMBER OF EXITS PER STORY	2	6	TABLE 1021.2(2)	
STAIRWAYS:				
MAXIMUM RISER HEIGHT	7" MAX.	6.931"	1009.7	
MINIMUM TREAD WIDTH	11" MAX.	11"	1009.7	
PLUMBING FIXTURES:				
WATER CLOSETS / URINALS	1	19	2902.1	NOTE 8
LAVATORIES	1	12	2902.1	NOTE 8
DRINKING FOUNTAINS	0	1	2902.1	NOTES 8 & 9
SERVICE SINKS	1	1	2902.1	NOTE 8
PORTABLE FIRE EXTINGUISHERS	0	0	906.1	NOTE 10
NOTES:				
1. PER SECTION 508.4.2, THE ALLOWABLE BUILDING AREA PER FLOOR IS CALCULATED ACCORDING TO THE FOLLOWING FIRST FLOOR VALUES:				
1.1. AREA INCREASE FOR FRONTAGE = (640/640'-0.25)x27.07/30 = 0.678				
1.2. A-3 OCCUPANCY: 9,500 SFT ALLOWABLE AREA x 1.678 INCREASE FOR FRONTAGE = 15,941 ALLOWABLE SFT. ACTUAL AREA 5,910 SFT / ALLOWABLE AREA 11,960.5 SFT = 0.37				
1.3. B OCCUPANCY: 19,900 SFT ALLOWABLE AREA x 1.678 INCREASE FOR FRONTAGE = 33,392 ALLOWABLE SFT. ACTUAL AREA 9,946 / ALLOWABLE AREA 25,054.1 SFT = 0.30				
1.4. S-2 OCCUPANCY: 26,000 SFT ALLOWABLE AREA x 1.678 INCREASE FOR FRONTAGE = 43,628 ALLOWABLE SFT. ACTUAL AREA 5,127 SFT / ALLOWABLE AREA 32,734 SFT = 0.12				
2. BASED ON MOST RESTRICTIVE OCCUPANCY WITHOUT INCREASE FOR FRONTAGE.				
3. SEE LIFE SAFETY PLANS FOR OCCUPANT LOAD CALCULATIONS.				
4. SEE LIFE SAFETY PLANS FOR INDIVIDUAL CORRIDOR REQUIREMENTS & DIMENSIONS.				
5. BASED ON MOST RESTRICTIVE OCCUPANCY A-3 & B, NON-SPRINKLERED.				
6. REQUIREMENT BASED ON 164 OCCUPANTS @ 0.3" PER OCCUPANT = 49.2" (SECTION 1005.3.1) OR 44" (SECTION 1009.4) WHICHEVER IS GREATER.				
7. REQUIREMENT BASED ON 631 TOTAL OCCUPANTS @ 0.2" PER OCCUPANT = 126.2" (SECTION 1005.3.2) OR 32" (SECTION 1008.1.1), WHICHEVER IS GREATER.				
8. PLUMBING FIXTURES REQUIRED IS BASED ON THE FOLLOWING CALCULATIONS. ALL OCCUPANCIES REQUIRE 1 SERVICE SINK TOTAL.				
8.1. A-3 OCCUPANCY: 523 OCCUPANTS = 5 WCS/URINALS, 3 LAVATORIES.				
8.2. B OCCUPANCY: 83 OCCUPANTS = 3 WCS/URINALS, 3 LAVATORIES.				
8.3. S-2 OCCUPANCY: 17 OCCUPANTS = 1 WC/URINAL, 1 LAVATORY.				
9. PER INDIANA AMENDMENT TO CHAPTER 29, "WHERE WATER IS SERVED FREE OF CHARGE ... DRINKING FOUNTAINS SHALL NOT BE REQUIRED."				
10. INDIANA AMENDMENTS TO SECTION 906.1 DELETE REQUIREMENT FOR PORTABLE FIRE EXTINGUISHERS EXCEPT WHERE REQUIRED BY TABLE 906.1.				

ENERGY CODE MATRIX:				
ASHRAE STANDARD 90.1 - 2007	NON-RESIDENTIAL	CLIMATE ZONE 5 - FULLY CONDITIONED		
	REQUIRED:	REFERENCE:	ACTUAL:	REFERENCE:
ROOF ASSEMBLY: (INSULATION ENTIRELY ABOVE DECK)	U-0.048 / R-20.0 c.i.	TABLE 5.5-5	U-0.040 / R-25.0 c.i. MIN.	MANUF. RATING & TABLE A2.2
WALLS, ABOVE GRADE: (MASS)	U-0.090 / R11.4 c.i.	TABLE 5.5-5	U-0.077 / R12.99 c.i.	SEE NOTE #1
(STEEL FRAMED)	U-0.064 / R13.0 + R-7.5 c.i.	TABLE 5.5-5	U-0.0476 / R-21.0 c.i. MIN.	MANUF. RATING
FLOORS:				
SLAB ON GRADE FLOORS: (HEATED)	F-0.86 / R-15 for 24"	TABLE 5.5-5		
OPAQUE DOORS: (SWINGING)	U-0.70	TABLE 5.5-5	U-0.091 / R-11.0	MANUF. RATING, SEE NOTE #2
VERTICAL GLAZING (0%-40% OF WALL): (CURTAIN WALL / STOREFRONT)	U-0.45 / SHGC-0.40	TABLE 5.5-5	U-0.36 / SHGC-0.20	MANUF. RATING, SEE NOTE #3
(METAL FRAMING, ALL OTHER)	U-0.55 / SHGC-0.40	TABLE 5.5-5	U-0.38 / SHGC-0.18	MANUF. RATING, SEE NOTE #4
NOTES:				
1. 12" LIGHT-WEIGHT CMU WITH R-3.6/INCH SPRAY IN PLACE POLYURETHANE FOAM INSULATION. (EDIT)				
2. CECO POLYURETHANE INSULATED GALVANIZED STEEL DOOR & FRAME WITH R-VALUE OF 11.0 & U-VALUE OF 0.091.				
3. TOTAL ASSEMBLY VALUES BASED ON KAWNEER 451T THERMALLY BROKEN STORE FRONT SYSTEM WITH VIRAICON 1" INSULATED GLASS UNITS (VUE1-40) WITH A VLT OF 40%, WINTER U-VALUE OF 0.24 & SHGC OF 0.21.				
4. TOTAL ASSEMBLY VALUES BASED ON KAWNEER 8251T THERMALLY BROKEN WINDOW WITH VIRAICON 1" INSULATED GLASS UNITS (VUE1-40) WITH A VLT OF 40%, WINTER U-VALUE OF 0.24 & SHGC OF 0.21.				
5. DOORS OPEN DIRECTLY FROM A SPACE THAT IS LESS THAN 3,000 SFT (X SFT OF ATMOSPHERICALLY CONNECTED SPACE).				

DEFINITIONS

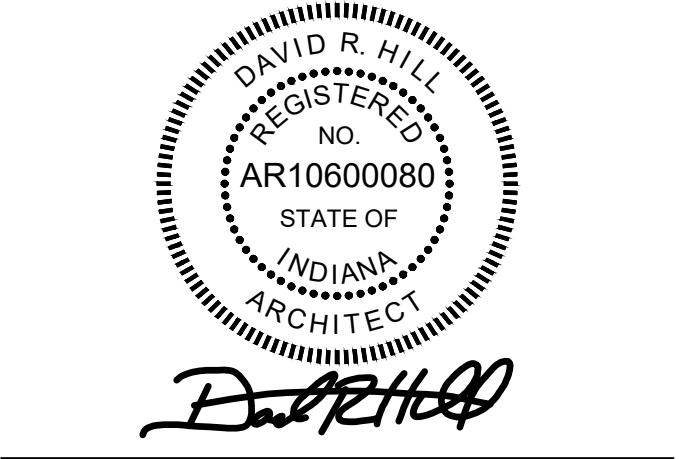
A.B	ANCHOR BOLT	FE	FIRE EXTINGUISHER CABINET	P.LAM	PLASTIC LAMINATE
ABV	ABOVE	FHC	FIRE HOSE CABINET	PLYWD	PLYWOOD
A.F.F.	ABOVE FINISHED FLOOR	FD	FLOOR DRAIN	P.O.R.	PROFESSIONAL OF RECORD
A/C	AIR CONDITIONING	FIN	FINISHED	PROJ	PROJECT
ADA	AMERICANS W/ DISABILITIES ACT	FL	FLOORING	PSF	POUNDS PER SQUARE FOOT
ADJ	ADJUSTABLE	FLUR	FLUORESCENT	PSI	POUNDS PER SQUARE INCH
ALUM	ALUMINUM	F.R.T.	FIRE RETARDANT TREATED	P.T.	PIRE TREATED
A.M.B.	AIR & MOISTURE BARRIER	FT (')	FEET, FOOT	RE	RELOCATE(D)
A.O.R.	ARCHITECT OF RECORD	FUR	FURRED(ING)	RAD	RADIUS
ARCH	ARCHITECT(URAL)	GL	GLASS	REF	REFERENCE
@	AT	GYP	GYPSPUM	REFR	REFRIGERATOR
BD	BOARD	HDW	HARDWARE	REMO	REMOVE(D)ABLE
BLK	BLOCK(ING)	HDWD	HARDWOOD	REQD	REQUIRED
BM	BEAM	HORIZ	HORIZONTAL	RELS	RESILIENT
BOT	BOTTOM	HT/HGT	HEIGHT	REV	REVISION(S), REVISED
B.O.	BOTTOM OF BUILDING	HVAC	HEATING/VENTILATION AIR CONDITIONING	RM	ROOM
BLDG	BUILDING			R.O.	ROUGH OPENING
				RND	ROUND
¢	CENTERLINE			SCH	SCHEDULE
CLG	CEILING	I.D.	INSIDE DIMENSION / DIAMETER	SECT	SECTION
CIRC	CIRCUIT	INCH	INCH	S.F.	SQUARE FOOTAGE
C.F.C.I.	CONTRACTOR FURNISHED & INSTALLED	INSUL	INSULATION	SHT	SHEET
C.J.	CONTROL JOINT	INT	INTERIOR	SHTHG	SHEATHING
CLR	CLEAR			SIM	SIMILAR
C.O.	CLEANOUT	LAM	LAMINATE	SC	SOLID CORE
COL	COLUMN	LBS	POUNDS	SUR	SOLID SURFACE
CONC	CONCRETE	MAX	MAXIMUM	SP	SPACE(S)
CONST	CONSTRUCTION	MFG	MANUFACTURE(R)	SPEC	SPECIFICATION
CONT	CONTINUOUS (OR) CONTINUE	MECH	MECHANICAL	S.S.	STAINLESS STEEL
C/T	CURRENT TRANSFORMER	MIN	MINIMUM	STL	STEEL
CTR	COUNTER	MISC	MISCELLANEOUS	STO	STORAGE
		M.P.	MOISTURE RESISTANT/PROOF	STRUCT	STRUCTURAL
		MTL	METAL	SUSP	SUSPENDED
		M.V.	MILLWORK VENDOR		
(D)	DEMO/DEMOLISHED	N.I.C.	NOT IN CONTRACT	TEL	TELEPHONE
DIA	DIAMETER	NO	NUMBER	TEMP	TEMPERED
DN	DOWN	NOM.	NOMINAL	T.O.	TOP OF
DS	DOWNSPOUT	NTS	NOT TO SCALE	T.O.S.	TOP OF STEEL
DYL	DETAIL			TYP.	TYPICAL
DWR	DRAWER				
DWG	DRAWING				
(E)	EXISTING	O.C.	ON CENTER(S)	U.N.O.	UNLESS NOTED OTHERWISE
EA	EACH	O.D.	OUTSIDE DIMENSION	U/S	UNDERSIDE
ELEV	ELEVATION	O.F.O.I.	OWNER FURNISHED & INSTALLED		
EMER	EMERGENCY	O.F.C.I.	OWNER FURNISHED & CONTRACTOR INSTALLED	V.B.	VAPOR BARRIER
EQ	EQUAL	OPNG	OPENING	V.E.I.F.	VERIFY IN FIELD
EQPT	EQUIPMENT	OPH	OPPOSITE HAND	VCT	VINYL COMPOSITION TILE
EXP	EXPOSED	OPP	OPPOSITE	VERT	VERTICAL
EXT	EXTERIOR	PNT'D	PAINT(ED)	W/	WITH
		PL	PLATE	W/O	WITHOUT
F.P.	FIRE EXTINGUISHER			WD	WOOD
				WDB	WOOD BASE

LABORER'S INTERNATIONAL UNION OF NORTH AMERICA LOCAL #41

UNION HALL RENOVATION - 2025

550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
1	10/23/25	FOR PERMIT
2	11/05/25	FOR BID



COVER SHEET

SCALE: N.T.S. CLIENT: 096
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH
APPRVD: DRH

G0.0
FILE: 096001G-G0.0-CS



Proposed Building Addition, Drainage, and Grading Plan



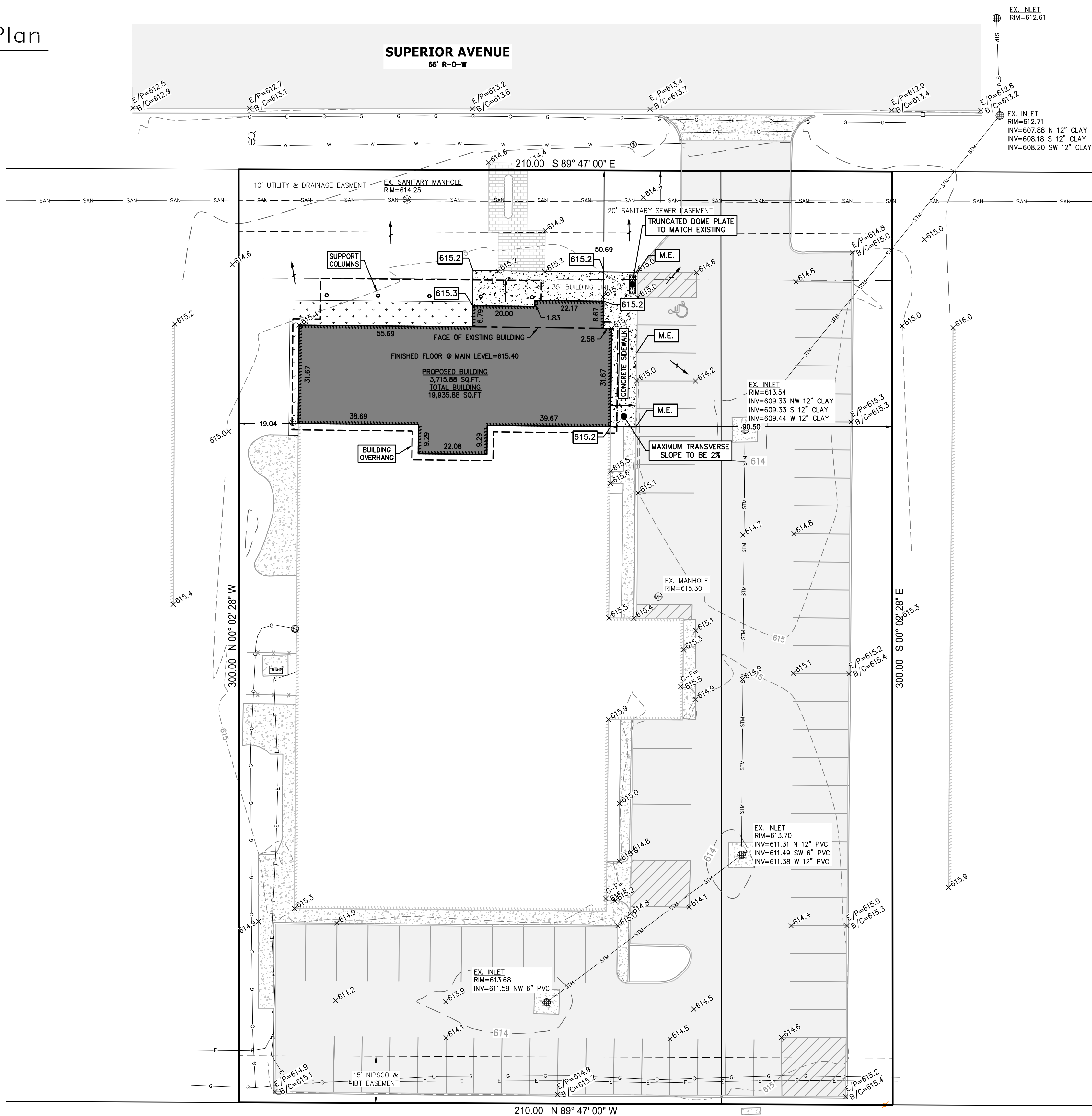
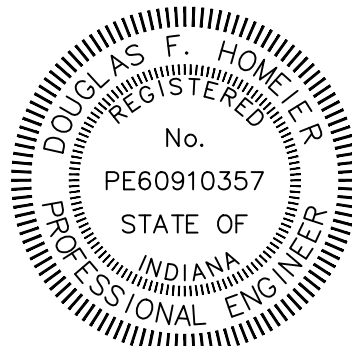
Proposed Commercial Site Notes

- Property Information:
Parcel Number: 45-06-36-202-003.000-027
Total Area: 1.45 Acres
Zoning Class: General Urban - B District (CD-4.B)
Light Manufacturing & Assembly
- Coverage Information
Total Area: 1.45 Acres
Impervious Area: 47,150 sq.ft. (75.2%±)
Green Area: 15,508 sq.ft. (24.8%±)
Building Area: 19,935 sq.ft. (31.8%)
- Lots are currently zoned General Urban - B District (CD-4.B):
Minimum Lot Width: 18 ft.
Maximum Lot Coverage: 70%
Maximum Height: 4 Stories (50 ft.)
Front Setback (Principal): 0 ft. (Min) ; 20 ft. (Max)
Front Setback (Secondary): 0 ft. (Min) ; 20 ft. (Max)
Side Setback: 0 ft. or 6 ft. (Min) per side ; 130 ft. (Max) Combined
Rear Setback: 3 ft. (Min) or 15 ft. from centerline of Rear Lane or Rear Alley
- No exterior utility work to be needed for site improvements.
- Topography and spot grades shown per manual field work performed by McMAHON Associates, Inc completed on August 21, 2025.
- Flood zones shown per FEMA Flood Map Service Center. The accuracy of any flood hazard data shown on this report is subject to map scale uncertainty and to any other uncertainty in location or elevation on the referenced Flood Insurance Rate Map. All of the within described land appears to lie within special flood hazard zone 'X' as said tract plots by scale on community-panel # 18089C0117E of the flood insurance rate maps for the Town of Munster (maps dated January 18, 2012).
- Per U.S. Fish & Wildlife Service National Wetland Inventory Map, no wetlands exist on site.
- All work shall be performed in accordance with all local, state and federal codes.
- The contractor shall obtain all necessary permits for construction.
- Timely notification of necessary governmental agencies regarding the commencement of construction activity is required.
- All work performed on the site shall conform to the site construction plans and specifications. Public improvements (including areas within right-of-way) shall conform to the Town of Munster standards.
- The contractor shall be responsible for maintaining safe traffic control on the site and adjacent public streets, as related to both physical site improvements and the movement of construction traffic.
- All necessary inspections and certifications, as required by ordinance, code, utility companies or government agencies shall be completed before the final connection of services.

Proposed Site Legend

Building	
Catch Basin	
Concrete	
Drainage Flow	
Elevation - Concrete	
Elevation - Match Existing	
Landscaped Area	
Truncated Dome	

Douglas F. Homeier



McMAHON
ENGINEERS-ARCHITECTS

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REVISION

DATE

NO.

550 Superior Avenue, Munster, Indiana 46321
Midwest Central Industriak Park, Unit 1

Proposed Building Addition, Drainage, and Grading Plan

DESIGNED
DFH

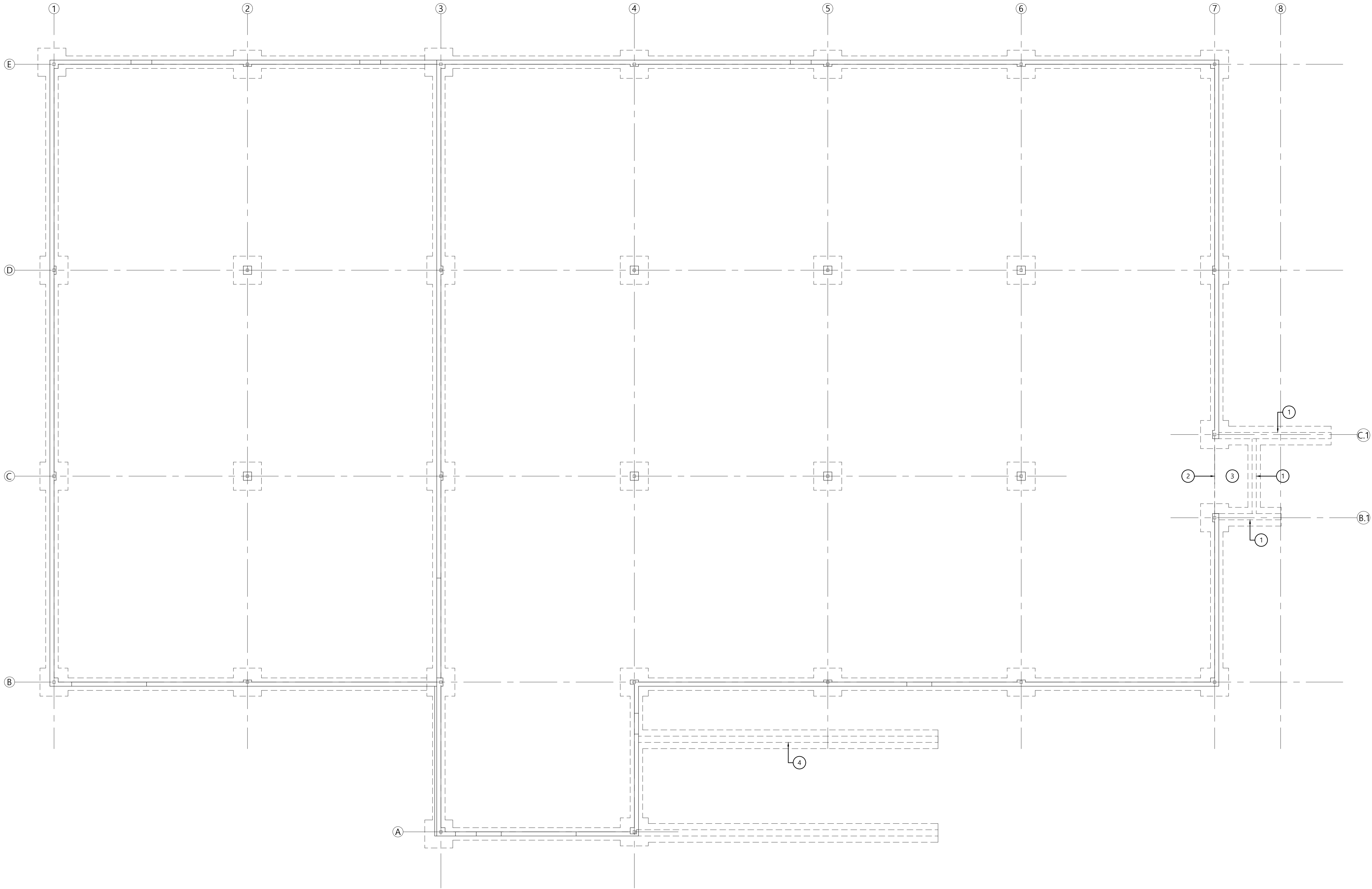
DRAWN
MNR

PROJECT NO.
M0581-05-25-00152.00

DATE
09/19/2025

SHEET NO.

C2.0



FOUNDATION PLAN SYMBOLS:

- ① — COLUMN LINE DESIGNATION
- SECTION CUT SYMBOL
- PLAN DETAIL SYMBOL
- ELEVATION SYMBOL
- ① PLAN NOTE DESIGNATION
- ELEVATION HEIGHT DESIGNATION

DEMOLITION KEYED NOTES:

1. DEMOLISH EXIST. FOUNDATION WALL COMPLETE. EXIST. FOOTINGS TO REMAIN.
2. SAW CUT EXIST. SLAB ON GRADE AT THIS POINT.
3. DEMOLISH EXIST. SLAB ON GRADE IN THIS AREA.
4. SAW-CUT & DEMOLISH UPPER PORTION OF EXIST. CONC. RETAINING WALL TO A LEVEL BELOW ADJACENT PAVING.

1 FOUNDATION PLAN

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

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mcm@mcmgrp-in.com

LiUNA!
Feel the Power

LABORER'S
INTERNATIONAL
UNION OF NORTH
AMERICA LOCAL #41

UNION HALL
RENOVATION - 2025

550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
1	08/28/25	COORDINATION
2	09/11/25	COORDINATION
3	10/23/25	FOR PERMIT



David R. Hill

FOUNDATION
DEMOLITION PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

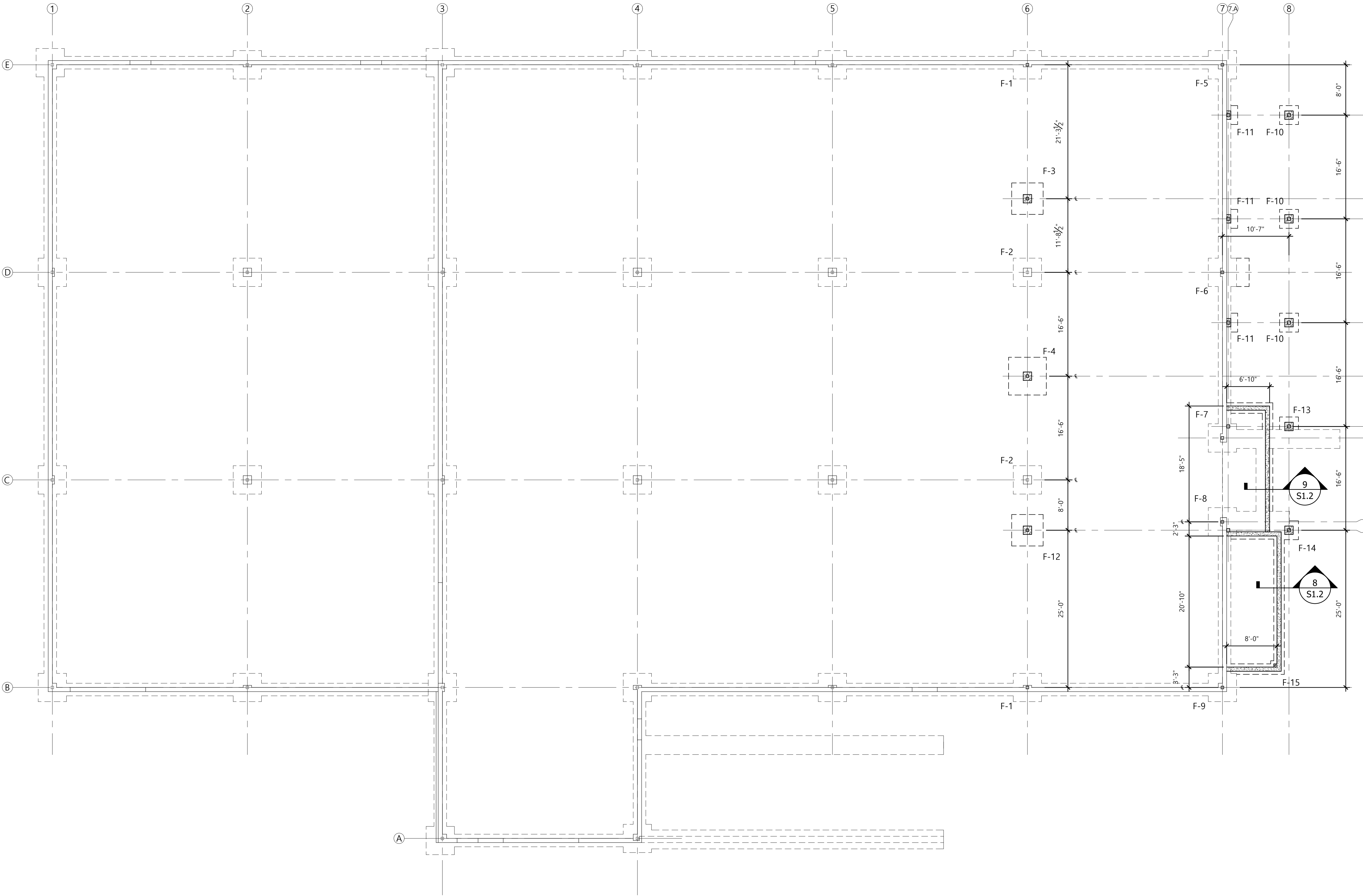
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

SD1.1

FILE: 096001S-SD1.1-FNDPLN-X



1 FOUNDATION PLAN

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

FOUNDATION PLAN SYMBOLS:

- ① COLUMN LINE DESIGNATION
- Y XXX SECTION CUT SYMBOL
- Y XXX PLAN DETAIL SYMBOL
- XXXX ELEVATION SYMBOL
- ① PLAN NOTE DESIGNATION
- 000'-0" T.O.X. ELEVATION HEIGHT DESIGNATION

EXCAVATION NOTES:

1. REMOVE ALL UNSTABLE OR UNSUITABLE SOILS AS REQUIRED.
2. REMOVAL OF UNSUITABLE SOILS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER.
3. PROOF ROLL EXCAVATED AREAS TO DETECT ANY YIELDING SOILS AND REMOVE UNSUITABLE SOILS AS REQUIRED.
5. EXCAVATIONS FOR SLABS ON GRADE TO BE BACKFILLED WITH GRANULAR MATERIALS COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM - 1557).
6. BACKFILL AND COMPACTION TO BE CONDUCTED IN 10" MAXIMUM LIFTS.
7. ONE NUCLEAR DENSITY TEST TO BE PERFORMED PER EACH 100 CUBIC YARDS OF FILL.
8. DESIGN SOIL BEARING CAPACITY IS 3,000 PSF.

FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY AND COORDINATE FOUNDATION AND FOOTING T.O.C. HEIGHTS WITH EXISTING CONDITIONS AND FINAL SITE GRADING.
2. EXISTING FIRST FLOOR SUB-FLOOR REFERENCE ELEVATION TO BE +100'-0".
3. STEP DOWN NEW FOOTINGS AND FOUNDATION WALLS AS REQUIRED TO MAINTAIN A MINIMUM DEPTH OF 3'-0" FROM FINISHED GRADE TO TOP OF FOOTINGS.
4. ALL CONCRETE WORK SHALL CONFORM TO ACI 318, CURRENT EDITION.
5. ALL CONCRETE SHALL BE AIR-ENTRAINED WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
6. CONCRETE SHALL CONTAIN A MIN. OF 5 BAGS OF CEMENT PER CUBIC YARD, A WATER-TO-CEMENT RATIO OF .48 AND A SLUMP OF 3" +/- 1".
7. CONCRETE REINFORCING STEEL SHALL BE DEFORMED BARS OF BILLET STEEL CONFORMING TO ASTM A615, GRADE 60, EXCEPT THAT THE BARS USED IN COLUMN TIES AND BEAM STIRRUPS MAY BE GRADE 40.
8. WELDED WIRE MESH SHALL CONFORM TO ASTM 185.
9. CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED, WETTED AND SLUSHED WITH CEMENT GROUT JUST BEFORE THE PLACING OF NEW CONCRETE.
10. PROVIDE CHAIRS, TIES, SUPPORTS, ETC., AS REQUIRED. MAINTAIN CLEARANCES FROM FACE OF CONCRETE TO REINFORCEMENT AS REQUIRED BY ACI 318. TYPICAL CONCRETE COVERS SHALL BE AS FOLLOWS:
 - 10.1. 3" FOR FOUNDATIONS.
 - 10.2. 2" FOR WALLS.
 - 10.3. 1 1/2" FOR BEAMS & COLUMNS.
 - 10.4. 1 1/2" FROM TOP OF SLABS ON GRADE.

STRUCTURAL DESIGN CRITERIA:

1. FLOOR LIVE LOADS (TABLE 1607.1):
 - 1.1. ASSEMBLY, MOVABLE SEATS: 100 PSF
 - 1.1.1. REDUCED PER SECTION 1607.9.1 TO: 72 PSF
 - 1.2. BALCONIES & DECKS: (SAME AS OCCUPANCY SERVED): 50 PSF
 - 1.3. CORRIDORS, FIRST FLOOR: 100 PSF
 - 1.4. CORRIDORS, OTHER: (SAME AS OCCUPANCY SERVED): 50 PSF
 - 1.5. STAIRS & EXITS, NON-RESIDENTIAL: 100 PSF
 - 1.6. OFFICES: 50 PSF
2. ROOF LIVE LOAD (TABLE 1607.1): 20 PSF
3. SNOW LOAD DATA:
 - 3.1. GROUND SNOW LOAD (P_g) (FIGURE 1608.2): 30 PSF
 - 3.2. FLAT ROOF SNOW LOAD (P_f) (ASCE 7):
 - 3.2.1. $P_f = 0.7C_eC_gP_g$
 - 3.3. SNOW EXPOSURE FACTOR (C_e):
 - 3.3.1. Partially exposed = 1.0 for Exposure B/C, 0.8 for D
 - 3.4. SNOW LOAD IMPORTANCE FACTOR (I_s):
 - 3.4.1. 1.0 for Risk Category II
 - 3.5. THERMAL FACTOR (C_t):
 - 3.5.1. 1.0 for all other
 - 3.6. SNOW DRIFT:
 - 3.6.1. DRIFT SURCHARGE (P_d): +0.43/-0.73
 - 3.6.2. WIDTH OF SNOW DRIFT (w): -0.51/+0.21
4. WIND DESIGN DATA:
 - 4.1. ULTIMATE WIND DESIGN SPEED (V_{ult}) (FIGURE 1609B): 120 MPH
 - 4.2. NOMINAL DESIGN WIND SPEED (V_{nom}) (TABLE 1609.3.1): 93 MPH
 - 4.3. RISK CATEGORY (TABLE 1609.5): III
 - 4.4. SURFACE ROUGHNESS CATEGORY (SECTION 1609.4.2): B
 - 4.5. EXPOSURE CATEGORY & K_z (SECTION 1609.4.3): B
 - 4.6. INTERNAL NET PRESSURE COEFFICIENTS (C_{int}) (TABLE 1609.6.2):
 - 4.6.1. WINDWARD WALL, ENCLOSED, +/-: +0.43/-0.73
 - 4.6.2. LEEWARD WALL, ENCLOSED, +/-: -0.51/+0.21
 - 4.6.3. SIDEWALL, ENCLOSED, +/-: -0.66/+0.35
5. SEISMIC DESIGN DATA:
 - 5.1. RISK CATEGORY (TABLE 1604.5): III
 - 5.2. IMPORTANCE FACTOR (I_p):
 - 5.3. MAPPED SPECTRAL RESPONSE ACCEL (S_s) (FIGURE 1613.3.1(2)): 11.7%g
 - 5.4. MAPPED SPECTRAL RESPONSE ACCEL (S_s) (FIGURE 1613.3.1(2)): 6.3%g
 - 5.5. SITE CLASS:
 - 5.6. DESIGN SPECTRAL RESPONSE ACCELERATION (S_{ds}): 7.8%g
 - 5.6.1. (SECTION 1613.3.4, EQUATION 16-39, $S_{ds}=2/3(S_s)$)
 - 5.7. DESIGN SPECTRAL RESPONSE ACCELERATION (S_{d1}): 4.2%g
 - 5.7.1. (SECTION 1613.3.4, EQUATION 16-40, $S_{d1}=2/3(S_s)$)
 - 5.8. DESIGN BASE SHEAR (V):
 - 5.9. SEISMIC DESIGN CATEGORY (TABLE 1613.3.5(1)&(2): D
 - 5.10. SEISMIC RESPONSE COEFFICIENT (C_s):
 - 5.11. RESPONSE MODIFICATION COEFFICIENT (R):
6. GEOTECHNICAL DATA:
 - 6.1. DESIGN SOIL BEARING PRESSURE: 3,000 psf

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5	08/28/25	COORDINATION
6	09/11/25	COORDINATION
7	10/23/25	FOR PERMIT



David R. Hill

FOUNDATION PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

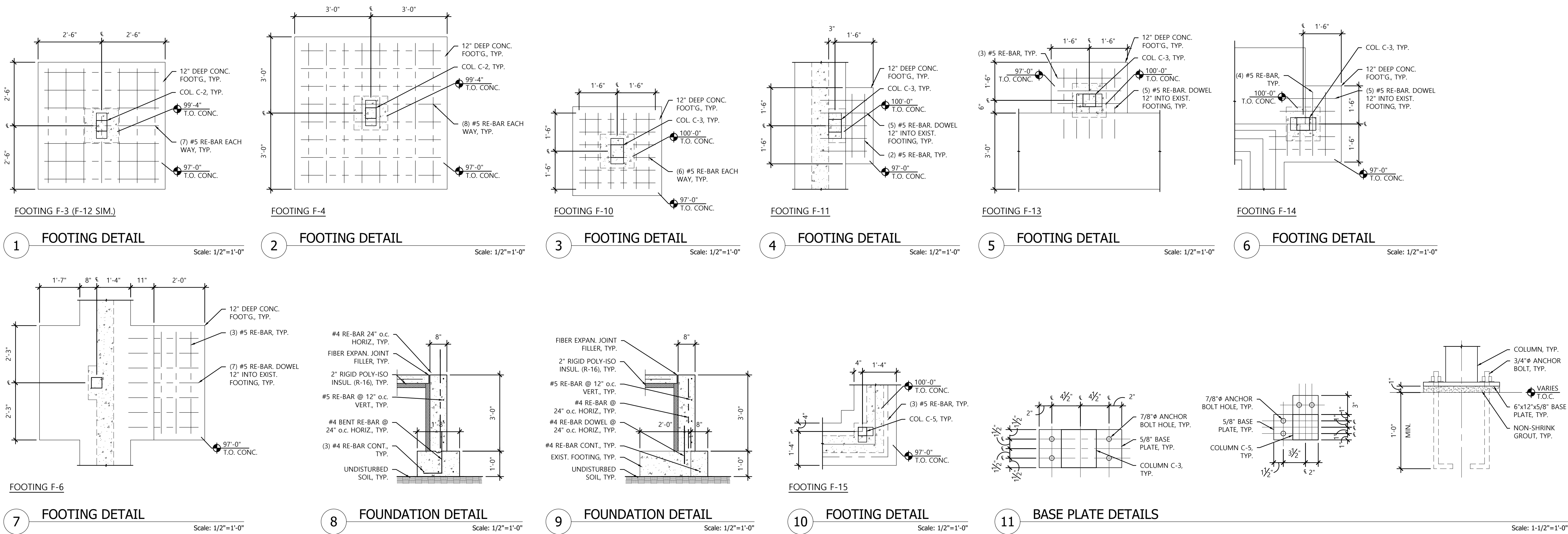
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

S1.1

FILE: 096001S-S1.1-FNDPLAN

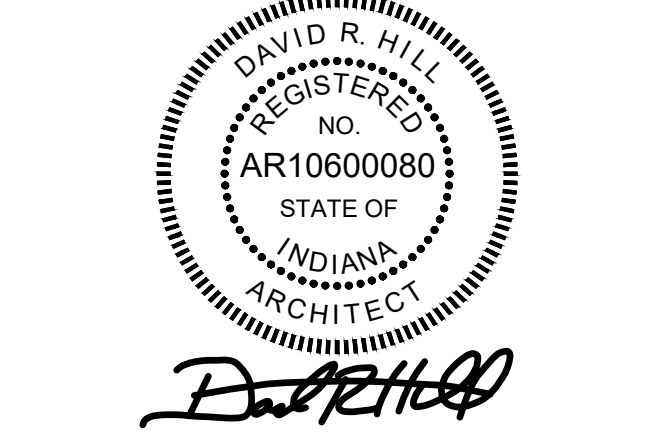


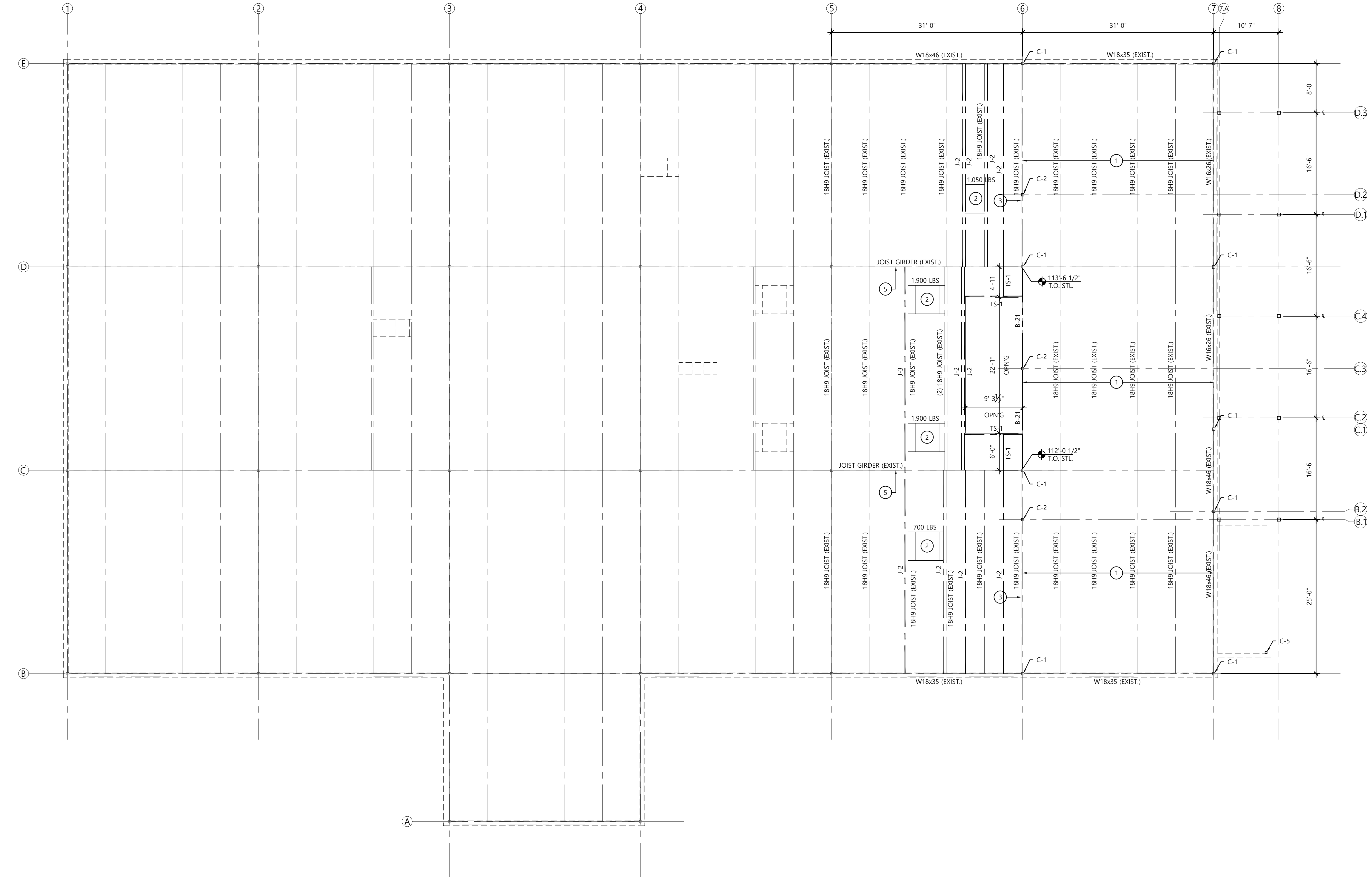
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1 FIRST FLOOR ROOF FRAMING PLAN

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

FRAMING PLAN SYMBOLS:

- COLUMN LINE DESIGNATION
- SECTION CUT SYMBOL
- PLAN DETAIL SYMBOL
- ELEVATION SYMBOL
- PLAN NOTE DESIGNATION
- ELEVATION HGT. DESIGNATION

STRUCTURAL NOTES:

- ALL EXTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF CONCRETE OR SHEATHING UNLESS NOTED OTHERWISE.
- ENGINEERED BAR JOIST MANUFACTURERS TO VERIFY LOADING AND SIZING OF ENGINEERED JOISTS.
- STRUCTURAL STEEL & METAL FABRICATION WORK SHALL COMPLY WITH THE FOLLOWING STANDARDS:
 - GENERAL STANDARDS:
 - AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS
 - AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.
 - RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 FOR BOLTS.
 - 3.1.1. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS
 - 3.1.2. AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.
 - 3.1.3. RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 FOR BOLTS
 - STRUCTURAL STEEL MEMBERS: ASTM A992
 - STRUCTURAL STEEL PY: 36 ksi
 - STEEL ANGLES & LOOSE UNTELS TO BE A992.
 - STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B.
 - BOLTS: ASTM A325, GRADE A OR B.
 - ANCHOR RODS: ASTM F1554.
 - SHEAR CONNECTORS: ASTM A108, I.A.W. AWS D1.1, TYPE B.
 - WELDING MATERIALS: AWS D1.1, TYPE REQ'D FOR MATERIALS BEING WELDED.
 - GROUT: NON-SHRINK TYPE CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING & PLASTICIZING ADDITIVES WITH 7,000 psi 28 DAY COMPRESSIVE STRENGTH MINIMUM. SHOP & TOUCH-UP PRIMER: SSPC PAINT 15, TYPE 1, RED OXIDE.
 - GALVANIZING FOR FASTENERS, CONNECTORS & ANCHORS:
 - 3.12.1. HOT DIPPED GALVANIZING: ASTM 153 / A153M.
 - 3.12.2. MECHANICAL GALVANIZING: ASTM B695, CLASS 50 MINIMUM.
 - PROVIDE HOT DIPPED GALVANIZED COATING AFTER FABRICATION FOR ALL LOOSE UNTELS, BEAMS AND PLATES FOR MASONRY VENEER.

FRAMING PLAN KEY NOTES:

- EXIST. BAR JOISTS, JOIST GIRDERS & MTL. ROOF DECKING TO REMAIN IN THIS AREA.
- PROVIDE NEW L3x3x1/4" FRAMING FOR MECHANICAL UNIT & ROOF CURB TO BE LOCATED IN THIS AREA.
- RELOCATE EXIST. BAR JOIST AS REQUIRED TO ACCOMMODATE NEW COLUMNS.
- X-BRACING THIS BAY. SEE DETAIL 2/S2.3, TYP.
- MODIFY EXIST. JOIST GIRDER IN PLACE. SEE DETAIL 3/S3.2.

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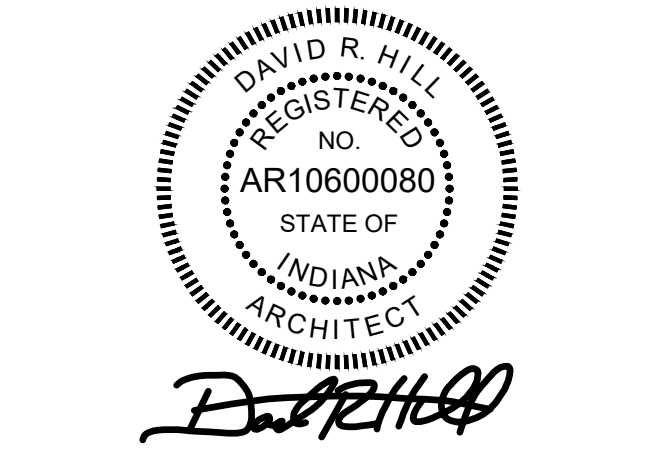
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7	10/14/25	COORDINATION
8	10/23/25	FOR PERMIT
9	11/05/25	FOR BID



FIRST
FLOOR ROOF
FRAMING PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

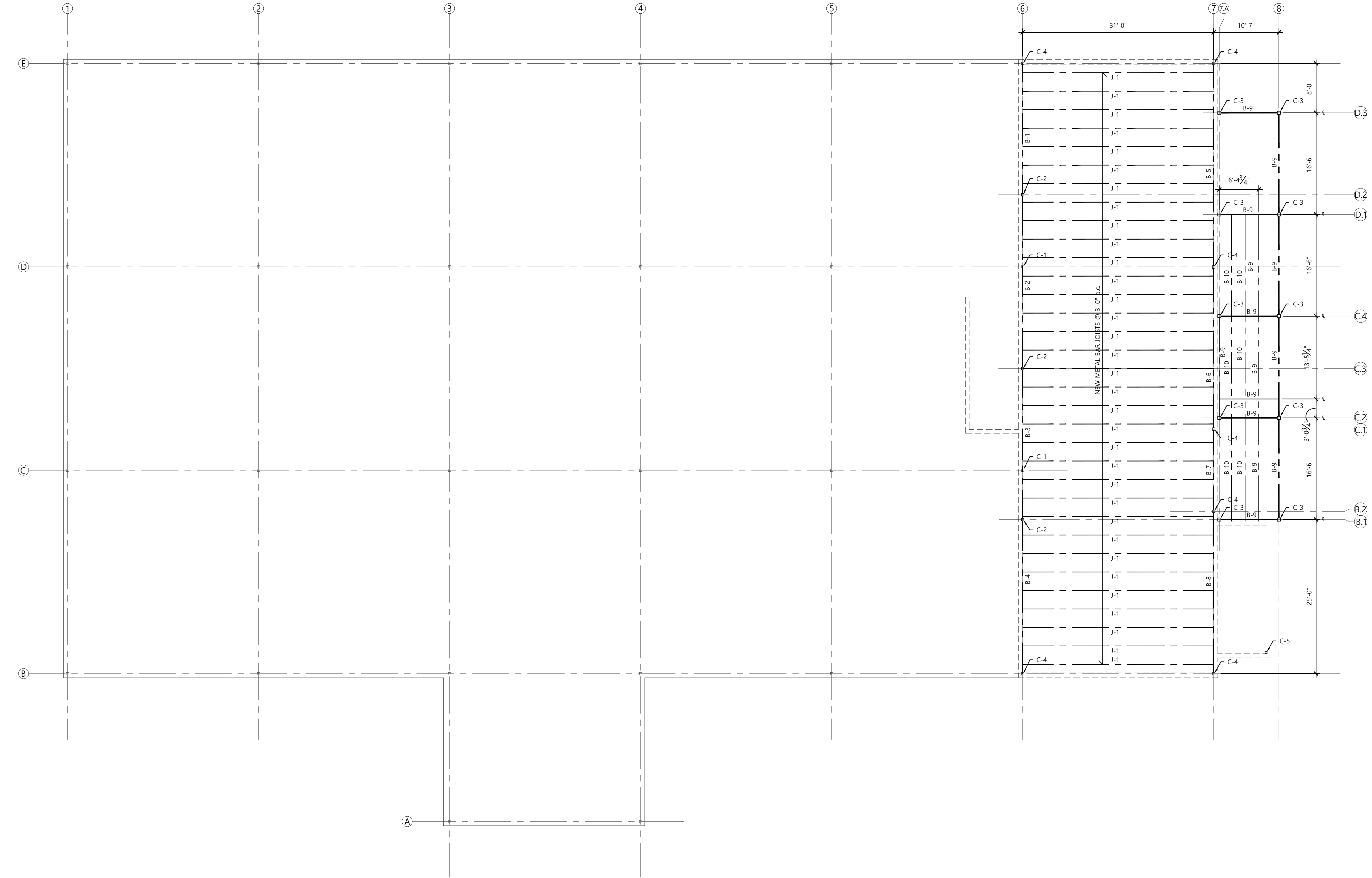
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

S2.1

FILE: 096001S-S2.1-FRML01



FRAMING PLAN SYMBOLS:

- 1 COLUMN LINE DESIGNATION
- X/XXX SECTION CUT SYMBOL
- X/XXX PLAN DETAIL SYMBOL
- AXXX ELEVATION SYMBOL
- 1 PLAN NOTE DESIGNATION
- 0'-0" T.O.X. ELEVATION HGT. DESIGNATION

STRUCTURAL NOTES:

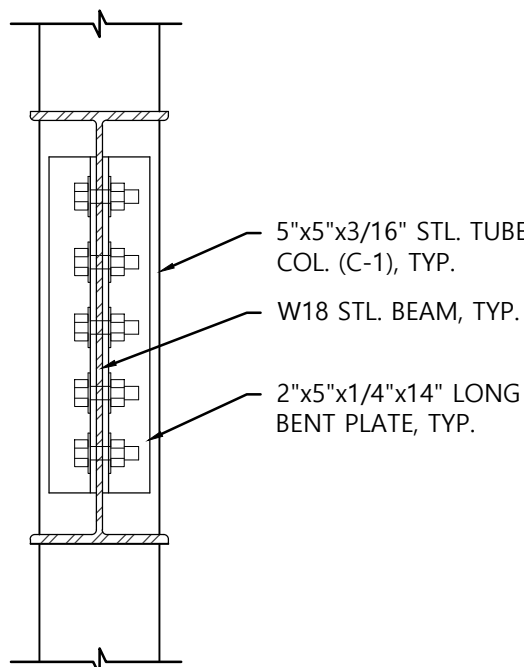
- ALL EXTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF CONCRETE OR SHEATHING UNLESS NOTED OTHERWISE.
- ENGINEERED BAR JOIST MANUFACTURERS TO VERIFY LOADING AND SIZING OF ENGINEERED JOISTS.
- STRUCTURAL STEEL & METAL FABRICATION WORK SHALL COMPLY WITH THE FOLLOWING STANDARDS:
 - GENERAL STANDARDS:
 - AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS
 - AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.
 - RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 FOR BOLTS.
 - 3.1.1. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS
 - 3.1.2. AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.
 - 3.1.3. RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 FOR BOLTS.
 - 3.2. STRUCTURAL STEEL MEMBERS: ASTM A992
 - 3.3. STRUCTURAL STEEL Fy 36 ksi
 - 3.4. STEEL ANGLES & LOOSE LINTELS TO BE A992.
 - 3.5. STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B.
 - 3.6. BOLTS: ASTM A325, GRADE A OR B.
 - 3.7. ANCHOR RODS: ASTM F1554.
 - 3.8. SHEAR CONNECTORS: ASTM A108, I.A.W. AWS D1.1, TYPE B.
 - 3.9. WELDING MATERIALS: AWS D1.1, TYPE REQ'D FOR MATERIALS BEING WELDED.
 - 3.10. GROUT: NON-SHRINK TYPE CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING & PLASTICIZING ADDITIVES WITH 7,000 psi 28 DAY COMPRESSIVE STRENGTH MINIMUM.
 - 3.11. SHOP & TOUCH-UP PRIMER: SSPC PAINT 15, TYPE 1, RED OXIDE.
 - 3.12. GALVANIZING FOR FASTENERS, CONNECTORS & ANCHORS:
 - 3.12.1. HOT DIPPED GALVANIZING: ASTM 153 / A153M.
 - 3.12.2. MECHANICAL GALVANIZING: ASTM B695, CLASS 50 MINIMUM.
 - PROVIDE HOT DIPPED GALVANIZED COATING AFTER FABRICATION FOR ALL LOOSE LINTELS, BEAMS AND PLATES FOR MASONRY VENEER.

FRAMING PLAN KEY NOTES:

- EXIST. BAR JOISTS, JOIST GIRDERS & MTL. ROOF DECKING TO REMAIN IN THIS AREA.
- PROVIDE NEW L3x3x1/4" FRAMING FOR MECHANICAL UNIT & ROOF CURB TO BE LOCATED IN THIS AREA.
- RELOCATE EXIST. BAR JOIST AS REQUIRED TO ACCOMMODATE NEW COLUMNS.
- X-BRACING THIS BAY. SEE DETAIL 2/S2.3, TYP.

1 SECOND FLOOR FRAMING PLAN

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



2 BEAM CLIP DETAIL

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

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7	10/23/25	FOR PERMIT



SECOND
FLOOR
FRAMING PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

DATE: 06/24/25 PROJECT: 096001

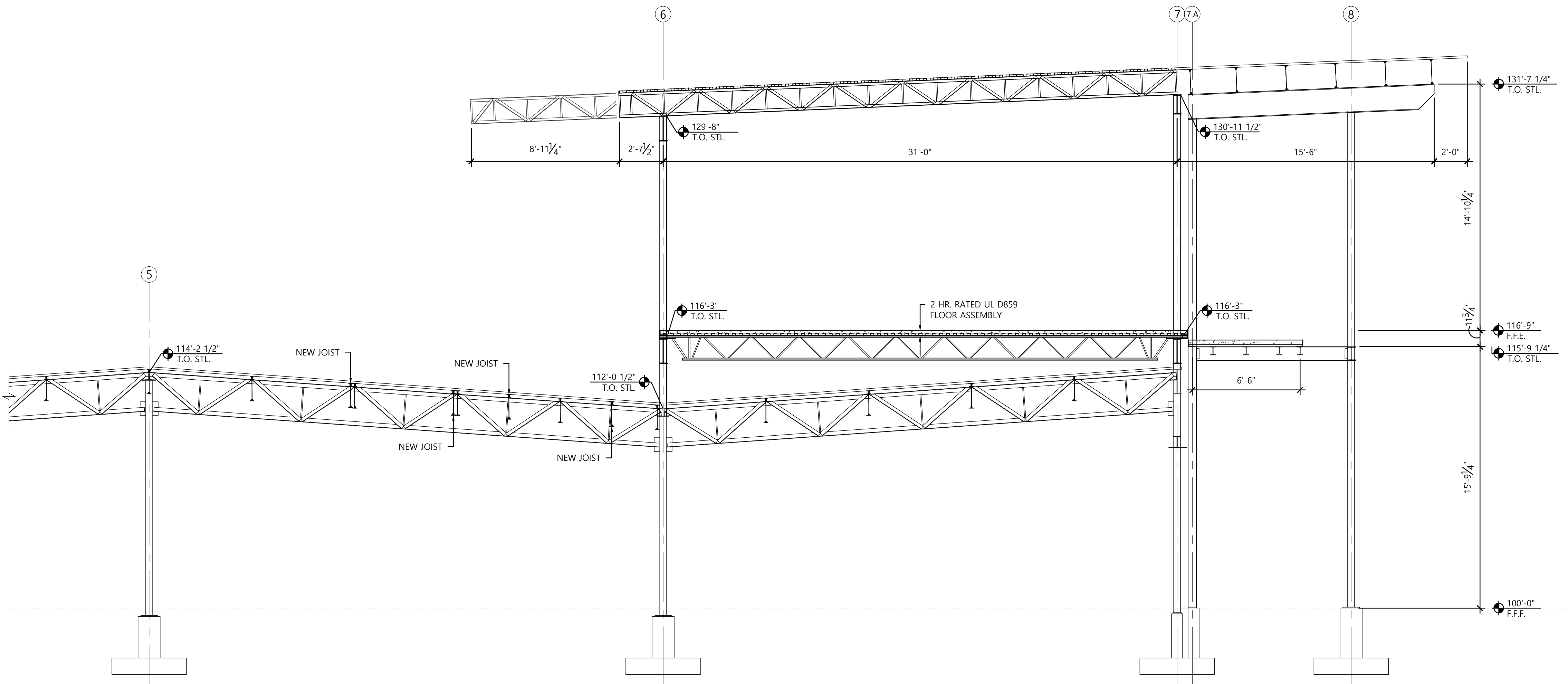
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S2.2

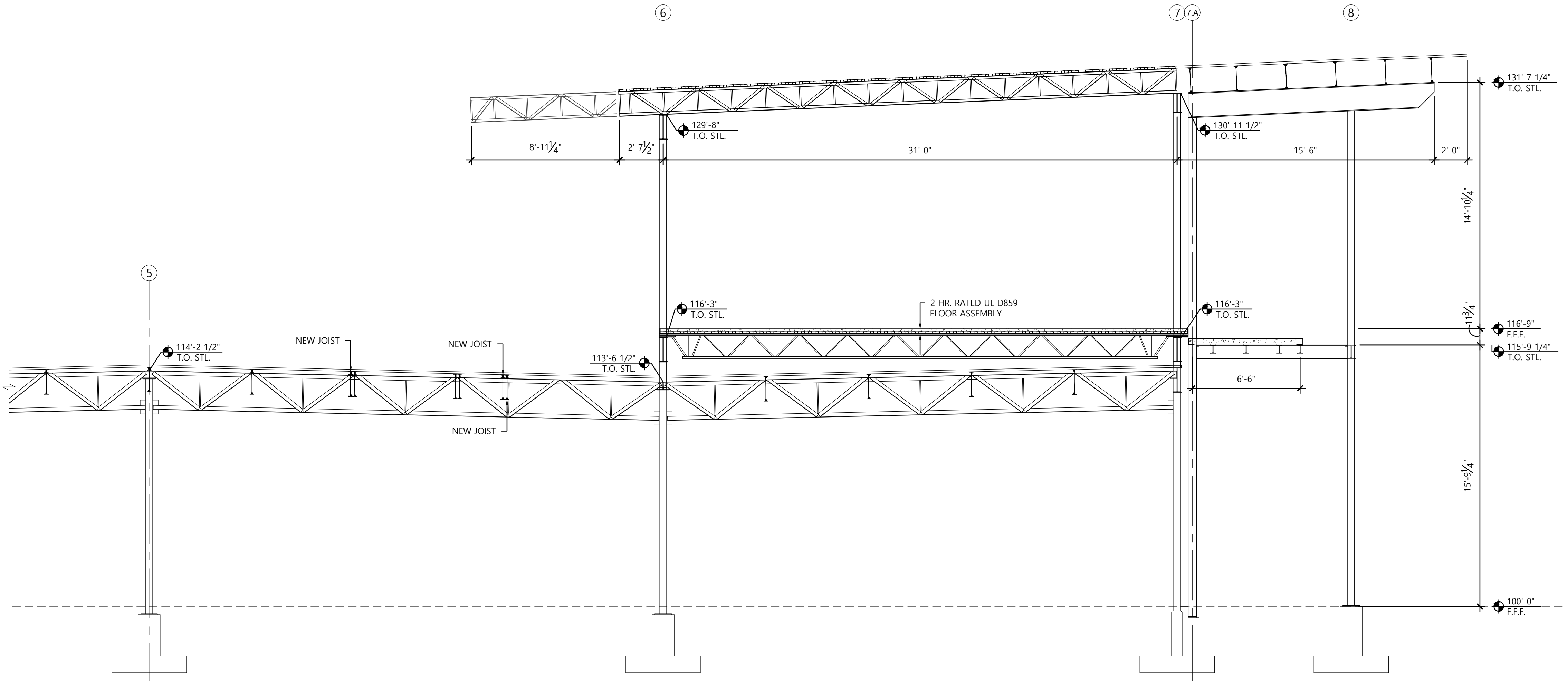
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Scale: 1-1/2"=1'-0"



1 STEEL FRAMING ELEVATION - COLUMN LINE "C"

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



2 STEEL FRAMING ELEVATION - COLUMN LINE "D"

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

STRUCTURAL DESIGN CRITERIA:

1. FLOOR LIVE LOADS (TABLE 1607.1):	
1.1. ASSEMBLY, MOVABLE SEATS:	100 PSF
1.1.1. REDUCED PER SECTION 1607.9.1 TO:	72 PSF
1.2. BALCONIES & DECKS: (SAME AS OCCUPANCY SERVED):	50 PSF
1.3. CORRIDORS, FIRST FLOOR:	100 PSF
1.4. CORRIDORS, OTHER: (SAME AS OCCUPANCY SERVED):	50 PSF
1.5. STAIRS & EXITS, NON-RESIDENTIAL:	100 PSF
1.6. OFFICES:	50 PSF
2. ROOF LIVE LOAD (TABLE 1607.1):	20 PSF
3. SNOW LOAD DATA:	
3.1. GROUND SNOW LOAD (P _g) (FIGURE 1608.2):	30 PSF
3.2. FLAT ROOF SNOW LOAD (P _f) (ASCE 7):	
3.2.1. P _f =0.7C _e C _s P _g	
3.3. SNOW EXPOSURE FACTOR (C _e):	0.8
3.3.1. Partially exposed = 1.0 for Exposure B&C, 0.8 for D	
3.4. SNOW LOAD IMPORTANCE FACTOR (I _s):	1.0
3.4.1. 1.0 for Risk Category II	
3.5. THERMAL FACTOR (C _t):	1.0
3.5.1. 1.0 for all other	
3.6. SNOW DRIFT:	
3.6.1. DRIFT SURCHARGE (Pd):	
3.6.2. WIDTH OF SNOW DRIFT (w):	
4. WIND DESIGN DATA:	
4.1. ULTIMATE WIND DESIGN SPEED (V _{ult}) (FIGURE 1609B):	120 MPH
4.2. NOMINAL DESIGN WIND SPEED (V _{ref}) (TABLE 1609.3.1):	93 MPH
4.3. RISK CATEGORY (TABLE 1604.5):	III
4.4. SURFACE ROUGHNESS CATEGORY (SECTION 1609.4.2):	B
4.5. EXPOSURE CATEGORY & K _z (SECTION 1609.4.3):	B
4.6. INTERNAL NET PRESSURE COEFFICIENTS (C _{int}) (TABLE 1609.6.2):	
4.6.1. WINDWARD WALL, ENCLOSED, +/-:	+0.43/-0.73
4.6.2. LEeward WALL, ENCLOSED, +/-:	-0.51/+0.21
4.6.3. SIDEWALL, ENCLOSED, +/-:	-0.66/+0.35
5. SEISMIC DESIGN DATA:	
5.1. RISK CATEGORY (TABLE 1604.5):	III
5.2. IMPORTANCE FACTOR (I _s):	
5.3. MAPPED SPECTRAL RESPONSE ACCEL (S _s) (FIGURE 1613.3.1(2):	11.7%g
5.4. MAPPED SPECTRAL RESPONSE ACCEL (S _s) (FIGURE 1613.3.1(2):	6.3%g
5.5. SITE CLASS:	
5.6. DESIGN SPECTRAL RESPONSE ACCELERATION (S _{ds}):	7.8%g
5.6.1. (SECTION 1613.3.4, EQUATION 16-39, S _{ds} =2/3(S _s))	
5.7. DESIGN SPECTRAL RESPONSE ACCELERATION (S _{dh}):	4.2%g
5.7.1. (SECTION 1613.3.4, EQUATION 16-40, S _{dh} =2/3(S _s))	
5.8. DESIGN BASE SHEAR (S):	
5.9. SEISMIC DESIGN CATEGORY (TABLE 1613.3.5(1)&(2):	D
5.10. SEISMIC RESPONSE COEFFICIENT (C _s):	
5.11. RESPONSE MODIFICATION COEFFICIENT (R):	
6. GEOTECHNICAL DATA:	
6.1. DESIGN SOIL BEARING PRESSURE:	3,000 psf

STRUCTURAL STEEL SCHEDULE	
STEEL BAR JOISTS:	
J-1	18K10 @ 3'-0" O.C. W/ THREE ROWS OF BRIDGING
J-2	18K5 W/ THREE ROWS OF BRIDGING
J-3	18K5 W/ THREE ROWS OF BRIDGING, MID-SPAN BRIDGING TO BE DIAGONAL W/ BOLTED CONNECTIONS
J-4	CANAM 18KSP200/120 @ 4'-0" O.C. W/ THREE ROWS OF BRIDGING (SEE DETAIL 2/53.2, TYP.)
J-5	CANAM 18KSP200/120 @ 4'-0" O.C. W/ THREE ROWS OF BRIDGING (SEE DETAIL 2/53.2, TYP.)
J-6	CANAM 18KSP200/120 @ 4'-0" O.C. W/ THREE ROWS OF BRIDGING (SEE DETAIL 2/53.2, TYP.)
J-7	CANAM 18KSP200/120 @ 4'-0" O.C. W/ THREE ROWS OF BRIDGING (SEE DETAIL 2/53.2, TYP.)
J-8	CANAM 18KSP200/120 @ 4'-0" O.C. W/ THREE ROWS OF BRIDGING (SEE DETAIL 2/53.2, TYP.)
J-9	12K5 @ 4'-0" O.C. W/ THREE ROWS OF BRIDGING
STEEL DECKING:	
1 1/2" x 22 GA. TYPE "B", 36/5 WELD, 5/8" PUDDLE WELD PATTERN	
STEEL BEAMS & TUBE STEEL:	
B-1	W18x40 W/ WEB STIFFENERS @ 24" o.c.
B-2	W18x65 W/ WEB STIFFENERS @ 24" o.c.
B-3	W18x46 W/ WEB STIFFENERS @ 24" o.c.
B-4	W18x46 W/ WEB STIFFENERS @ 24" o.c.
B-5	W18x97 W/ WEB STIFFENERS @ 24" o.c.
B-6	W18x50 W/ WEB STIFFENERS @ 24" o.c.
B-7	W12x26 W/ WEB STIFFENERS @ 24" o.c.
B-8	W18x50 W/ WEB STIFFENERS @ 24" o.c.
B-9	W10x15 W/ WEB STIFFENERS @ 24" o.c. (COR-TEN)
B-10	W6x15 GIRDER @ 2'-0" o.c. W/ WEB STIFFENERS @ 24" o.c. (COR-TEN)
B-11	W12x35 W/ WEB STIFFENERS @ 24" o.c.
B-12	W18x50 W/ WEB STIFFENERS @ 24" o.c.
B-13	W18x40 W/ WEB STIFFENERS @ 24" o.c.
B-14	W14x43 W/ WEB STIFFENERS @ 24" o.c.
B-15	W12x50 W/ WEB STIFFENERS @ 24" o.c.
B-16	W14x43 W/ WEB STIFFENERS @ 24" o.c.
B-17	W12x26 W/ WEB STIFFENERS @ 24" o.c.
B-18	W14x43 W/ WEB STIFFENERS @ 24" o.c. & 3/8"x10" MASONRY PLATE ON TOP FLANGE.
B-19	W18x35 W/ WEB STIFFENERS @ 24" o.c. (COR-TEN)
B-20	W14x43 W/ WEB STIFFENERS @ 24" o.c.
B-21	W10x19 W/ WEB STIFFENERS @ 24" o.c.
B-22	W18x10 W/ WEB STIFFENERS @ 24" o.c.
TS-1	6"x4"x3/16" TUBE STEEL W/ HANGER ANGLE @ BEARING POINTS ON BAR JOISTS.
STEEL COLUMNS:	
C-1	EXIST. 5"x5"x3/8" STEEL TUBE STEEL
C-2	NEW 5"x5"x3/8" STEEL TUBE W/ 5/8" BASE PLATE & TOP BEARING PLATE & 3/4" ANCHOR BOLTS
C-3	6"x6"x3/8" STEEL TUBE W/ 5/8" BASE PLATE & TOP BEARING PLATE & 3/4" ANCHOR BOLTS (CORE-TEN)
C-4	5"x5"x3/8" STEEL TUBE W/ 5"x12"x5/8" TOP BEARING PLATE WELDED TO C-1 COLUMN BELOW
C-5	5"x5"x3/16" STEEL TUBE W/ 5/8" BASE PLATE & TOP BEARING PLATE & 3/4" ANCHOR BOLTS
LOOSE STEEL UNTELS & SHELF ANGLES:	
LL-1	3"x4"x1/4" S.S. LOOSE STEEL ANGLE
NOTES:	
1. ANY LOADS SUSPENDED FROM BAR JOISTS MUST BE SUPPORTED AT PANEL POINTS AND/OR ENGINEERED ACCORDINGLY.	
2. ALL RE-BAR SPLICES SHALL HAVE A MINIMUM 24x BAR DIAMETER OVERLAP.	
3. PROVIDE 3 1/2"x3 1/2"x1/4" LOOSE ANGLES AT EXHAUST FAN AND CONDENSER LOCATIONS. INSTALL AFTER MECHANICAL EQUIPMENT.	

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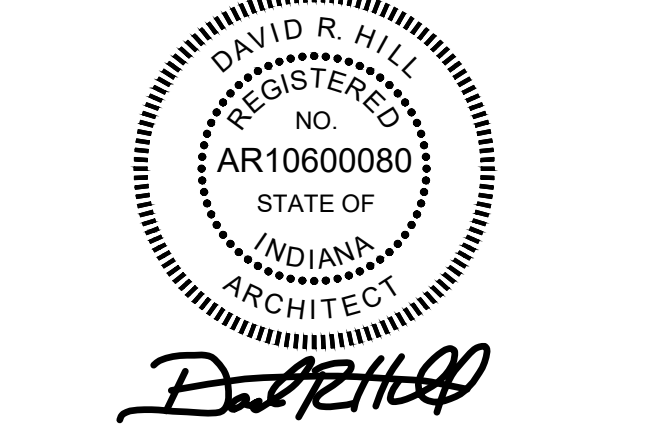
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550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
6	08/13/25	SD APPROVAL
7	08/14/25	PEER REVIEW
8	08/28/25	COORDINATION
9	09/11/25	COORDINATION
10	10/14/25	COORDINATION
11	10/23/25	FOR PERMIT



STEEL
FRAMING
ELEVATIONS

SCALE: 1/4"=1'-0" CLIENT: 096

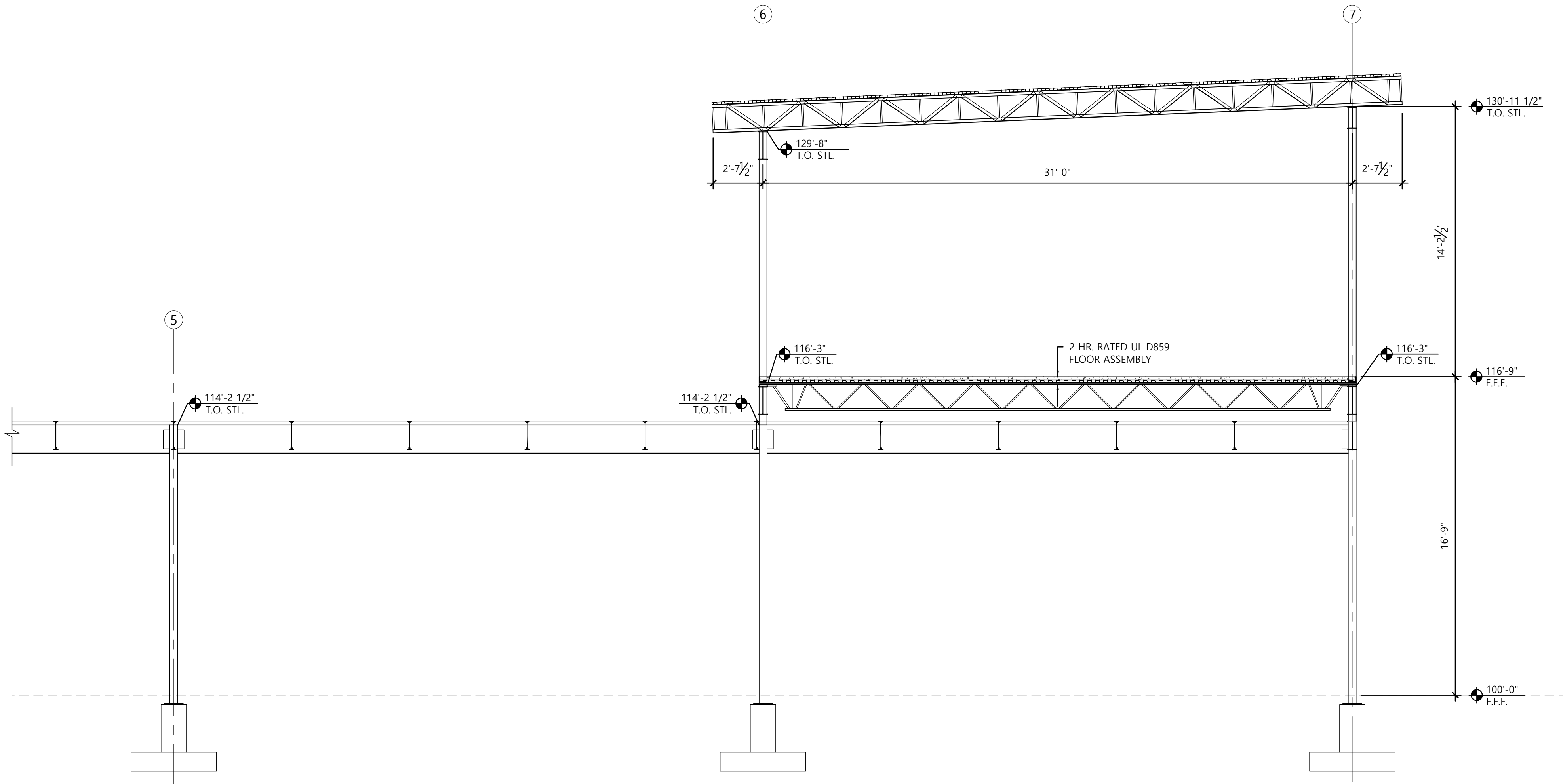
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

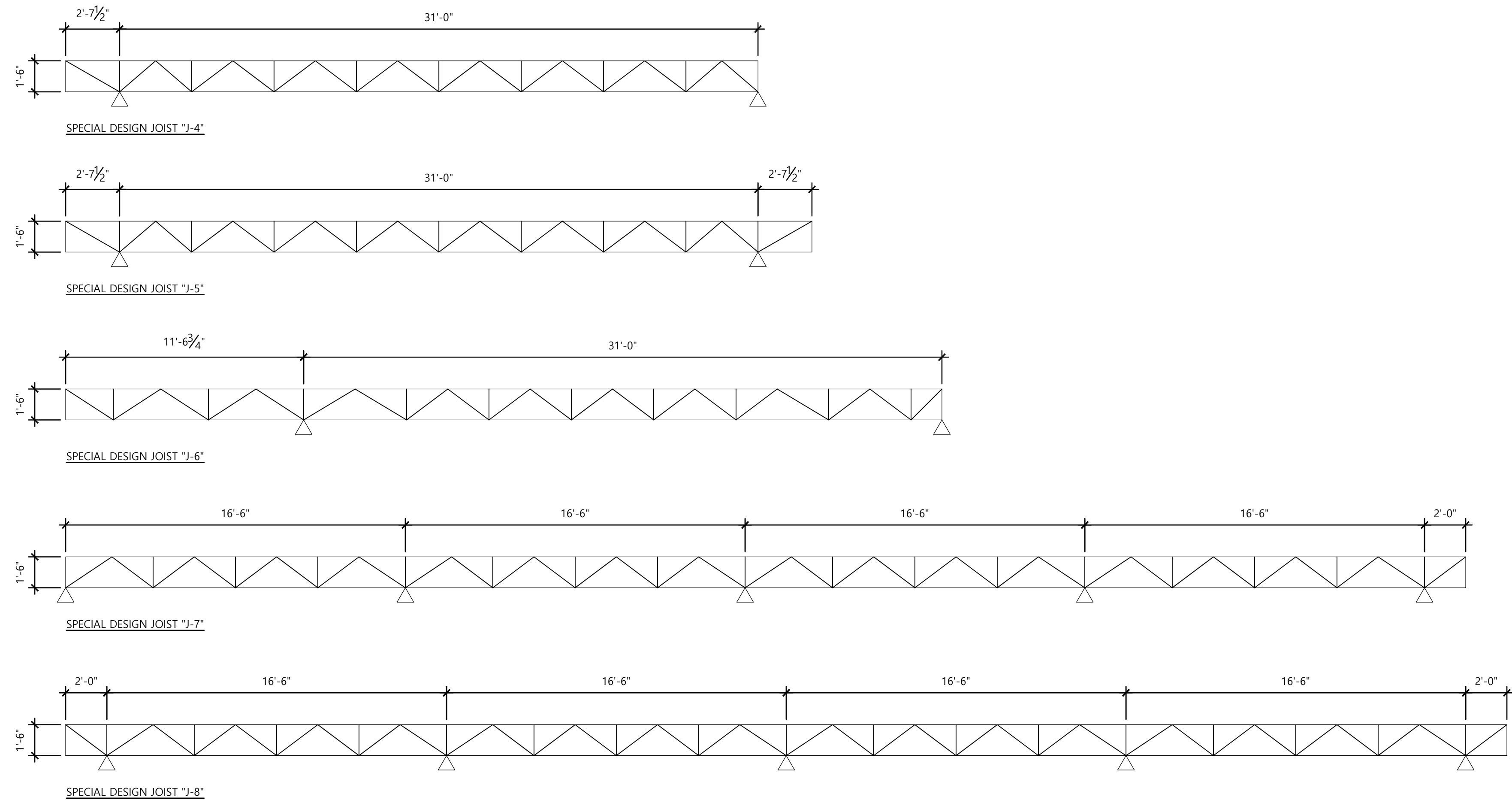
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S3.1

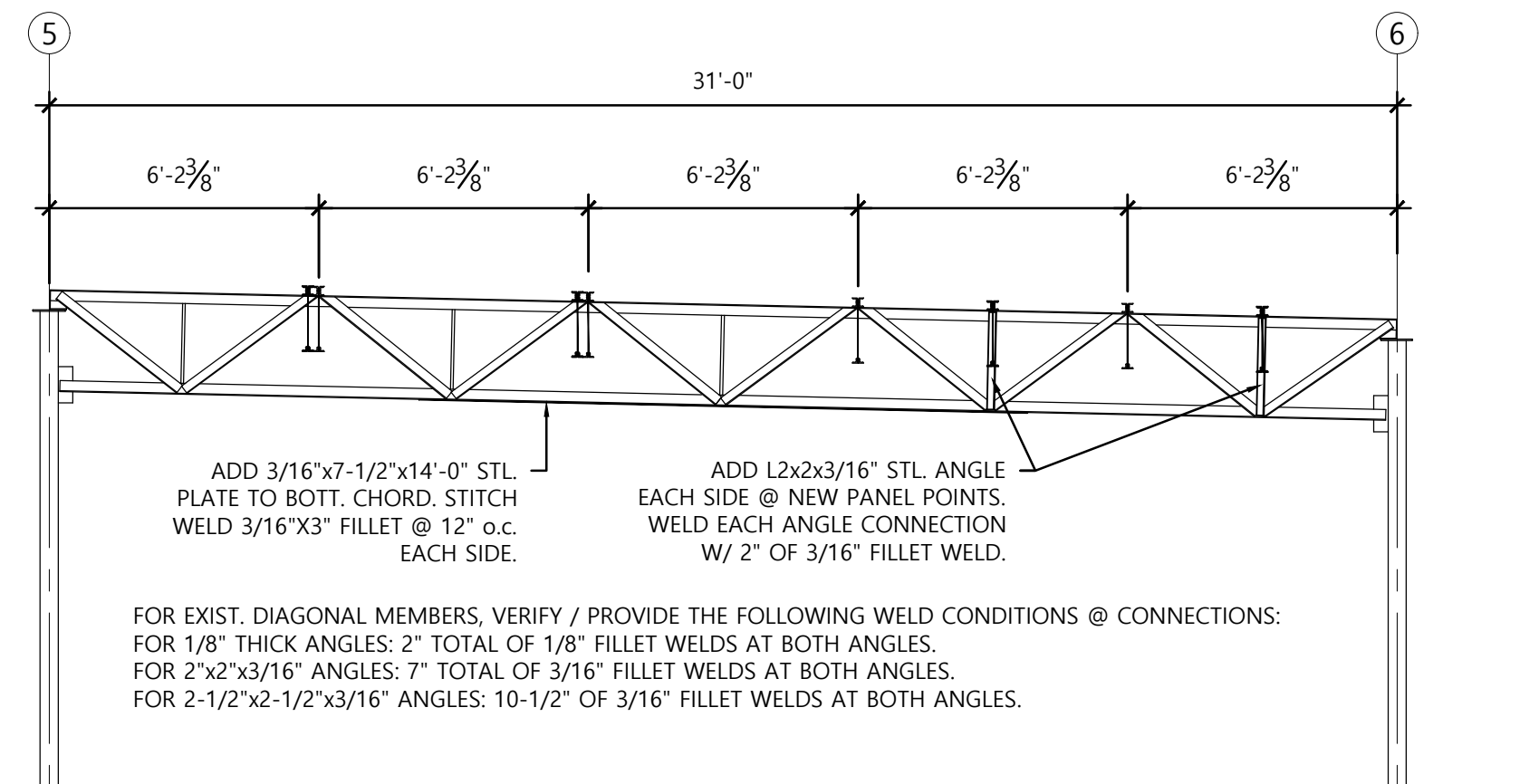
FILE: 096001S-S3.1-STLSECTS



1 PROPOSED STEEL FRAMING ELEVATION - COLUMN LINE "E"
(COLUMN LINE "B" SIM. OPP.)

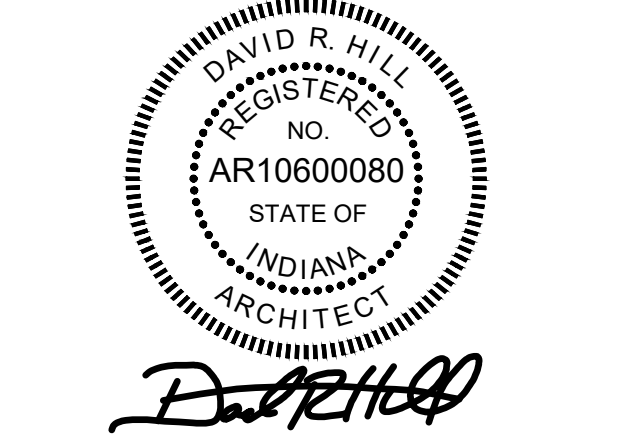


2 SPECIAL DESIGN JOIST DIAGRAMS



3 JOIST GIRDER DETAIL
(AT COLUMN LINE "D". COLUMN LINE "C" SIMILAR)

MARK	DATE	DESCRIPTION
1	07/24/25	OWNER REVIEW
2	08/08/25	PEER REVIEW
3	08/28/25	COORDINATION
4	09/11/25	COORDINATION
5	10/23/25	FOR PERMIT
6	11/05/25	FOR BID



STEEL FRAMING ELEVATIONS

SCALE: 1/4"=1'-0" CLIENT: 096

DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

S3.2

FILE: 096001S-S3.2-STLSECTS

00 00 00 GENERAL:

- A. GENERAL:
 - A. All Work shall be performed in accordance with all applicable codes and regulations.
 - B. All new Work to be installed straight, true and plumb, to the lines and dimensions indicated, and in compliance with all applicable industry standards and practices.
 - C. Contractor is responsible for all required permits.
 - D. Contractor shall field verify all existing conditions. If existing conditions are found to differ from those indicated in the Contract Documents, notify Architect before proceeding with the work.
 - E. Contractor shall provide all general conditions required for the execution of the Work indicated, to include dumpsters, construction fencing and barriers, traffic control measures, storage, site clean-up, boardwalk walk-off mats, dust control and any other temporary construction or protection. Contractor may not use owner's dumpsters or other disposal facilities.
 - F. Upon award of Contract, Contractor to provide Architect with a Submittal Schedule listing all proposed materials and fabrications. Contractor shall return an annotated copy indicated the submittals that will be required.
2. ALTERNATES:
 - A. Alternate #1: All Work associated with the new emergency power generator, to include switch gear, panels, wiring & piping.

SECTION 01 10 00 - SUMMARY

- ART 1 GENERAL**
- 1. SUMMARY**
- A. Section includes:
1. Project information.
 2. Work covered by Contract Documents.
 3. Phased construction.
 4. Work by Owner.
 5. Access to site.
 6. Coordination with occupants.
 7. Work restrictions.
 8. Miscellaneous provisions.
- PROJECT INFORMATION**
- A. Project Identification: Laborers Union Hall, Restoration - 2025
1. Project Location: 550 Superior Ave., Huron, IN 46231
2. Project Address: 550 Superior Ave., Huron, IN 46231
3. Project Location: International Union of North America - Local #41, 550 Superior Avenue, Munster, Indiana, 46321.
- B. Owner's Representative: Kevin Roach, Business Manager
- C. Architect: M&B Design, LLC, 10000 N. Meridian, Monticello, IN, 47960.
- 2. WORK COVERED BY CONTRACT DOCUMENTS**
- A. Type of Contract:
1. Project will be constructed under a single prime contract.
- 3. PHASED CONSTRUCTION**
- A. The work shall be conducted in two phases, with each phase substantially complete as indicated.
1. The completion of all work indicated on the first floor south of Column line 3 work of this phase shall commence on or after February 1, 2026.
 2. Phase 2: The remaining Work shall commence on or after March 1, 2026, and be substantially complete and ready for occupancy at time of Substantial Completion for Phase 2.
- B. Before commencing Work of each phase, submit an updated copy of Contractor's construction schedule showing the sequence, commencement and completion dates for all phases of the Work.
- 4. WORK BY OWNER**
- A. General: Cooperative fully with Owner so work may be carried out smoothly, without interfering with or delaying work under this Contract or work by Owner. Coordinate the Work of this Contract with work by Owner.
- B. Concurrent Work: Owner will perform the following construction operations at Project site. Those operations will be conducted simultaneously with work under this Contract.
1. Low Voltage (Intersect & XIV).
- 5. ACCESS TO SITE**
- A. General: Contractor shall have limited use of Project site for construction operations as indicated on drawings and in the Contract limits and as indicated by requirements of this Section.
- B. Use of Site: Limit use of Project site to work in areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
- C. Driveways, Walkways and Entrances: Keep driveway entrances premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
- D. Check deliveries to minimize use of driveways and entrances by construction operations.
1. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.
 2. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.
- 6. COORDINATION WITH OCCUPANTS**
- A. Partial Owner Occupancy: Owner will occupy the premises during entire construction period, with areas of construction work to be completed in phases. Coordinate with Owner during construction period to minimize conflicts and facilitate Owner's usage. Perform the Work so as not to interfere with Owner's operations.
- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied areas and use facilities.
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and structures to remain.
- C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
- 34. SELECTIVE DEMOLITION, GENERAL**
- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
1. Notify cut openings like holes, plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations.
 4. Remove and salvage equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 5. Dispose of demolished items and materials promptly.
- B. Removed and Salvaged Items**
1. Clean salvaged items.
 2. Pack or crate items after cleaning. Identify contents of containers.
 3. Store items in a secure area.
 4. Transport items into storage area designated by Owner.
 5. Protect items from damage during transport and storage.
- C. Removed and Reinstalled Items**
1. Clean and repair items to functional condition adequate for intended reuse.
 2. Pack or crate items after cleaning and repainting. Identify contents of containers.
 3. Protect items from damage during transport and storage.
 4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
 5. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition.
- 35. DISPOSAL OF DEMOLISHED MATERIALS**
- A. General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them.
1. Do not allow demolished materials to accumulate on-site.
 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 3. Minimize debris from building by cutting, sawing, or other device that will convey debris to grade level in a controlled descent.
 4. Burning: Do not burn demolished materials.
 5. Disposal: Transport demolished materials off Owner's property and legally dispose of them.
- 36. CLEANING**
- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

- close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.

Provide not less than 72 hours notice to Owner of activities that will affect Owner's operations.

Owner Limited Occupancy of Completed Areas of Construction. Owner reserves the right to occupy and use and install equipment in completed portions of the Work, prior to the completion of the Work, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and limited occupancy shall not constitute acceptance of the total Work.

1. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner acceptance of the completed Work.

2. Issue a Certificate of Occupancy from authorities having jurisdiction before limited Owner occupancy.

3. Release all Owner occupancy, mechanical and electrical systems to be fully operational, and maintain tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of Work.

4. The Owner will assume responsibility for maintenance and custodial service for occupied portions of Work.

1.8 WORK RESTRICTIONS

A. Work Restrictions, General: Comply with restrictions on construction operations.

1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.

2. Work Hours: Limit work in the existing building to normal business working hours of 7:00 a.m. to 4:00 p.m., Monday through Friday, unless otherwise indicated.

Coordinate with Owner for weekend and early morning hours, as well as for utility shut-downs and other special circumstances.

3. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing written notice to the following:

a. Notify Owner not less than two days in advance of proposed utility interruptions.

b. Obtain Owner's permission before proceeding with utility interruptions.

4. Noise, Vibration and Other Disturbances: Owner for operations that may result in high levels of noise or vibration, odors, or other disruption to Owner occupancy with Owner.

5. Nonsmoking Building: Smoking not permitted within the building or within 25 feet interiors, operable windows, or outdoor-air intakes.

6. Controlled Substances: Use of tobacco products and other controlled substances within the existing environment is prohibited.

7. Employee Identification: Provide identification tags for Contractor personnel working on Project site.

8. Require personnel to use identification tags at all times.

2. PRODUCTS (Not Used)

EXECUTION (Not Used)

SECTION 024119 - SELECTIVE DEMOLITION

- | | | |
|----|---|---|
| 1. | GENERAL | compressive strength than concrete. |
| 1. | SUMMARY | 2. CONCRETE MATERIALS |
| A. | Section includes: | A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project. |
| 1. | Demolition and removal of selected portions of building or structure. | 1. Portland Cement: ASTM C 150, Type I. Portland cement may be supplemented with the following: |
| 2. | Salvage of existing items to be reused or recycled. | a. Fly Ash: ASTM C 618, Class C. |
| B. | DEFINITIONS | b. Ground Granulated Blast-Fume Slag: ASTM C 989, Grade 100 or 120. |
| A. | Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled. | B. Normal-Weight Aggregates: ASTM C 33, Class 35 coarse aggregate or better, graded. Provide aggregates from the same source. |
| B. | Salvage and Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse. | 1. Maximum Coarse Aggregate Size: 3/4 inch nominal. |
| C. | Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall in place where indicated. | 2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement. |
| D. | Existing to Remain: Existing items of construction that are not to be permanently removed and that are to be salvaged or removed, removed and salvaged, or removed and reinstalled. | C. Lightweight Aggregates: ASTM C 260, 3/8-inch nominal maximum aggregate size. |
| E. | FIELD CONDITIONS | D. Water: ASTM C 94/C 94M. |
| A. | Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct activities in accordance with OSHA 1926.651 and 1926.652. | D. ADMIXTURES |
| B. | Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical. | A. Air-Entraining Admixture: ASTM C 260. |
| C. | Loss of function, fixtures & equipment. | B. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other chemicals and that will not contribute water-soluble chlorides in excess those permitted in concrete. Do not use calcium chloride or admixtures containing calcium chlorides. |
| D. | Notify Architect of discrepancies between existing conditions and Drawings before proceeding with demolition. | C. Water-Reducing Admixture: ASTM C 494M, Type A. |
| E. | Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work. | D. Retarding Admixture: ASTM C 494M, 494M, Type B. |
| F. | Hazardous materials will be removed by Owner before start of the Work. | E. Plasticizing and Retarding Admixtures: ASTM C 1017C, 1017M, Type II. |
| G. | If suspected hazardous materials are encountered, do not disturb. Immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract. | F. FIBER REINFORCEMENT |
| H. | Hazardous materials are not expected to be present in buildings and structures to be selectively demolished. | A. Synthetic, Macro-Fiber Reinforced Polymer (macro-fiber) engineered and designed for use in concrete, complying with ASTM C 1116/C 1116M, Type I, 1 to 2 1/4 inches long. |
| I. | Should hazardous or potentially materials be encountered, notify Owner & Architect immediately. | 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work and that are not limited to the following: |
| J. | Do not disturb hazardous materials or items suspected of containing hazardous materials. | a. 3M [®] Scotchgard Polyethylene Fibers 1" |
| K. | Storage of salvaged or removed items or materials on-site is not permitted. | b. Grace Construction Products, Inc.: Fiberglass 6" Co. Stru 90/40. |
| L. | Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations. | c. Nylon 6/6, Inc. |
| M. | Maintain fire protection building and equipment selective demolition operations. | d. Proplex Concrete Systems Corp.: Fiberglass 6" Co. |
| N. | WARRANTY | e. Sika Corporation: Sika Fiber MS. |
| O. | During Warranty: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties. | VAPOR BARRIER |
| P. | PRODUCTS | A. Sheet Vapor Retarder: Polyethylene sheet, ASTM D 4397, not less than 10 mils thick. |
| Q. | REQUIREMENTS | B. Granular Fill: Clean mixture of crushed stone or crushed or uncrushed gravel; ASTM D 448, Size 57, with 100 percent passing 4.75-mm sieve and 0 to 5 percent passing a No. 8 sieve. |
| A. | Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction. | C. Fine-Grained Granular Material: Clean mixture of crushed stone, crushed gravel, and manufactured or natural sand; ASTM D 448, Size 10, with 100 percent passing a 3/8-inch sieve, 10 to 30 percent passing a No. 100 sieve, and at least 5 percent passing No. 200 sieve; complying with minimum substance limits of ASTM C 33 for fine aggregate. |
| B. | Standards: conform with ANSI/ASCE A10.6 and NFPA 241. | D. FLOOR FLOOR FINISHES |
| C. | EXECUTION | A. Penetrating Liquid Floor Treatment: Clear, chemically reactive, waterborne solution of inorganic silicate or silicate materials and proprietary components; odorless; that penetrates, hardens, and densifies concrete. |
| D. | EXAMINATION | B. RELATED MATERIALS |
| A. | Verify that materials have been disconnected and capped before starting selective demolition operations. | A. Expansion- and Isolation-Joint-Fiber Strips: ASTM D 1751, asphalt-saturated cellulose; fiber or ASTM D 1752, cork beads; expanding cork. |
| B. | Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition. | B. Bonding Agent: ASTM C 1059/C 1059M, Type II, non-redispersible, acrylic emulsion or styrene butadiene. |
| C. | | |

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| Combined Fly Ash and Pozzolan: 25 Percent | A. Bonding compounds for use with grout is specified in Division 03 Section Cast-In-Place Concrete |
| Grout Granulated Blast-Fume Slag: 50 Percent | B. Primer, if required for polymer concrete, is to be provided and installed per the manufacturer's recommendations. |
| Combined Fly Ash or Pozzolan and Grout Granulated Blast-Fume Slag: 50 Percent Portland Cement and silica fume not exceeding 10 Percent | 32. DYPACK (GROUT) |
| Silica Fume: 10 Percent | A. Dypack grout is to be used for built-up surfaces, setting miscellaneous metal items and minor repairs. |
| Combined Fly Ash, Pozzolans, and Silica Fume: 35 Percent with fly ash or pozzolans not exceeding 25 Percent and silica fume not exceeding 10 Percent | B. Surfaces required to be built-up with dypack grout are to be roughened by brushing, cleaned and coated with the bonding compound specified in Division 03 Section Cast-in-Place Concrete before application of grout. |
| Combined Fly Ash or Pozzolans, Grout Granulated Blast-Fume Slag, and Silica Fume: 50 Percent with fly ash or pozzolans not exceeding 25 Percent and silica fume not exceeding 10 Percent | C. The grout is to be applied to the required thickness and cured in accordance with Section Division 03 Section Cast-In-Place Concrete. |
| C. Water-reducing, chloride-ion content in hardened concrete to 0.06 percent by weight of cement. | 33. CEMENT GROUT |
| D. Admixtures: Use admixtures according to manufacturer's written instructions. | A. Cement grout is to be used for filling nonbearing portions of equipment pads to be pressure and grouting. |
| 11. CONCRETE MIXTURES FOR BUILDING ELEMENTS | B. Except for the specialized requirements for pressure grouting, grout is to be mixed and placed in the same manner as cast-in-place concrete. Grout is to be mixed for at least one minute and diluted grout is to be applied until placed. |
| A. Footings: Proportion normal-weight concrete mixture as follows: | 34. NONSHRINK GROUT |
| Minimum Compressive Strength: 4000 psi at 28 days | A. Nonshrink, nonmetallic aggregate grout is to be used under equipment, bearing plates and columns for baseplates. Nondrillmix, metallic aggregate grout is to be used under rotating equipment where lateral strength and fatigue are required. Grout anchor bolts and grout anchor bolts into existing steel. |
| Maximum Water/Cementitious Materials Ratio: 0.50 | B. Grout is to be applied in accordance with manufacturer's recommendations. |
| Slump Limit: 4 inches for concrete with verified slump of 2 to 4 inches before adding high-range water-reducing admixture or polycarboxylate ester or minus 1 inch | C. Holes required for grouting shall be blown clean with compressed air and be free of dust standing water. Horizontal holes for grouting are to be drilled at a slight downward angle and w the inserted dove or bolt batten to match. |
| Air Content: 5.5 percent, plus or minus 1.5 percent at point of delivery for 1-1/2 inch nominal maximum aggregate size. | |
| B. Foundation Walls: Proportion normal-weight concrete mixture as follows: | |
| Minimum Compressive Strength: 4000 psi at 28 days | |
| Maximum Water/Cementitious Materials Ratio: 0.50 | |
| Slump Limit: 4 inches for concrete with verified slump of 2 to 4 inches before adding high-range water-reducing admixture or polycarboxylate ester or minus 1 inch | |
| Air Content: 5.5 percent, plus or minus 1.5 percent at point of delivery for 1-1/2 inch nominal maximum aggregate size. | |
| C. Slabs-on-Grade: Proportion normal-weight concrete mixture as follows: | |
| Minimum Compressive Strength: 3000 psi at 28 days | |

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SECTION SECTION 03 60 00 - - GROUTING

1. GENERAL
- A. SUMMARY
1. Section includes work for glue used other than masonry.
2. QUALITY ASSURANCE
- A. Conformance with the specified requirements will be demonstrated by testing performed by an independent testing laboratory retained by the Owner.
2. PRODUCTS
- A. MATERIALS
1. Cement: Portland cement shall be ASTM C150 Type I or Type V, containing less than 0.6 percent alkali.
2. Aggregate
- a. Cement-Aggregate shall be non-reactive and shall be washed before use. When sources of aggregate are changed, test reports shall be provided for the material from the new source prior to commencing work.
- b. Fine Aggregate: fine aggregate shall be sand or crushed stone conforming to ASTM C33 as modified herein. When tested in accordance with ASTM C136, gradation shall be such that 100 percent by weight is standard No. 8 sieve and not less than 45 percent by weight pass a standard No. 40 sieve. Variation from the specified gradation in individual tests will be accepted if the average of three consecutive tests is within the following variation:
- | | |
|----------------------------------|-----------------------|
| Standard Sieve No. 20 or Coarser | 0.5 percent by weight |
| Standard Sieve No. 40 or Finer | 0.2 percent by weight |
3. Admixtures
- a. General: Admixtures shall be compatible with the grout and shall comply with the manufacturer's recommendations. Admixtures shall be added to the grout mix separately.
- b. Water-reducing: Water-reducing admixture comply with ASTM C494. Type D and shall be Master Builders Pozzolith 300-A, Sika Corporation Plastomix or approved equal.
- c. Lubricant: Lubricant additive for cement pressure grouting shall be Intusion Prepack Intrusion Aid, Chemplast N-1, or approved equal.
- D. Water
1. Water for washing aggregate, for mixing and for curing shall be potable, shall not contain more than 1000 mg/l of sulfates at 1% or more than 1300 mg/l of sulfates as SO₄ and shall not contain impurities which may change the setting time by more than 25 percent or a reduction of more than 5 percent of the compressive strength of the grout at 14 days when compared to the results for grout made with distilled water.
3. GROUT
- A. DRYPACK GROUT
1. Drypack grout shall be a mixture of approximately one part cement, 1-1/2 parts sand, water reducing admixture and sufficient water to make a stiff workable mix.
- B. Cement Grout
1. Cement grout shall be a mixture of one part cement, two parts sand proportioned by volume admixtures for pressure grouting and sufficient water to form a workable mix.
- C. Nonshrink Grout
1. Metallic aggregate nonshrink grout shall be:
- a. Master Builders Emcrete 636
 - b. Burke Company Metacrete 600
 - c. Sarnoborn Ferrofill C Redmix
 - d. Or equal
2. Nonmetallic aggregate nonshrink grout shall be:
- a. U.S. GROUT Fire Star grout
 - b. Master Builders Mortarless 713
 - c. Burke Company Non-Ferrous, Non-Shrink Grout
 - d. Or equal
- D. Adhesive Resin for Dowe! Anchoring
1. ICC approved, structural epoxy; prepackaged in cartridges for manually or pneumatically operated icc gun and automatically mixed at nozzle.
2. Subject to compliance with current ICC evaluation report provide one of the following:
- a. HIT-HY850 Adhesive Anchoring System, Hilti, Inc. (ICC ESR-2322)
 - b. HIT-HY950 MAX-SD Adhesive Anchoring System, Hilti, Inc. (ICC ESR-3013)
 - c. SET-XP Adhesive Anchoring Systems, Simpson Strong-Tie Co. (ICC ESR-2508).
4. EXECUTION
- A. GENERAL
1. Apply to 35 percent, formulated from neoprene.
2. Preformed Control Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Design N20A-895 and designed to fit standard sub block and to maintain lateral stability in masonry wall; size and configuration as indicated.
3. Bond Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).
4. Weep/Vent Products: Use the following unless otherwise indicated:
1. Mesh Weep/Vent: Free-draining mesh, made from polyethylene strands, full height and width of the head and depth 1/8 inch less than depth of outer wythe; in color selected from manufacturer's standard.
- a. Product: Subject to compliance with requirements, available products that incorporated into the wall shall be used, but are not limited to the following:
- 1. Mortar Net USA, Ltd.: Mortar Net Weep Vents
2. Cavity Drainage Material: Free-draining mesh, made from polymer strands that will not degrade within the wall cavity.
- b. Products: Subject to compliance with requirements, available products that may be incorporated in the Work include, but are not limited to, the following:
- 1. Advanced Building Products Inc.: Mortar Break
 - 2. Atchafalayas, Inc.: Cx/Clear Masonry Mat.
 - 3. Dayton Superior Corporation: 1/2" Wide Division, Polyfibre MortarStop
 - 4. Mortar Net USA, Ltd.: Mortar Net
5. Provide one of the following configurations:
- a. Steps, full-depth of cavity and 10 inches high, with dovetail shaped notches 7 inches deep
2. MORTAR AND JOINTS
- A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures, unless otherwise indicated.
- B. Prebested: Dry Mix Mortar: Furnish mortar ingredients in form of a prebested dry mix in quantities to be used. Mortar should be prepared in accordance with the manufacturer's instructions. Mortar should be brought to ensure adequate proportions, and thoroughly mixed ingredients before delivering to Project site.
- C. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specification.
- D. Colored-Aggregate Mortar: Produce required mortar color by using colored aggregates and natural color or white cement as necessary to produce required mortar color.
- E. Grout for Unit Masonry: Comply with ASTM C 476.
3. EXECUTION
- A. INSTALLATION, GENERAL
1. Use full-size units without cutting if possible.
2. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures.
- B. LAYING MASONRY WALLS
1. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thickness and for accurate location of openings, movement joints, returns, and offsets.
2. Lay out walls in advance for surface joints, particularly at corners, jumbs, and where possible, at other locations.
3. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond.
4. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill solidly with masonry around built-in items.
5. Lay in place between steel frames and masonry solidly with mortar unless otherwise indicated.
6. Fill cores in hollow CMUs with grout 2-4 inches under bearing plates, beams, lulls, posts, and similar items unless otherwise indicated.
5. MORTAR BEDDING AND JOINTING
- A. Lay hollow brick and CMUs as follows:
1. With face and side beds laid in mortar and with head joints of depth equal to bed joints.
2. Lay solid masonry walls with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slash head joint surfaces.
3. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.
4. Cut joints furish for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.
6. MASONRY JOINT REPAIRS

- | | |
|--|--|
| <p>4. General Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch on exterior side of walls, 1/2 inch elsewhere. Lap reinforcement a minimum of 6 inches.</p> <p>5. Intersect joint reinforcement at control and expansion joints unless otherwise indicated.</p> <p>3.5. ANCHORING MASONRY VENEERS</p> <p>4. Anchor masonry veneers to wall framing and concrete and masonry backup with masonry-veneer anchors to comply with the following requirements:</p> <ol style="list-style-type: none"> Fasten screw-attached anchors through sheathing to wall framing and to concrete and masonry backup with metal fasteners of type indicated. Use two fasteners unless anchor design only uses one fastener. Locate anchor sections to allow maximum vertical differential movement of ties up and down. Space anchors as indicated, but not more than 16 inches o.c. vertically and 32 inches o.c. horizontally. <p>3.6. FLASHING, WEED HOPES, CAVITY DRAINAGE, AND VENTS</p> <p>4. General Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, or other obstructions to downward flow of water in wall, and where indicated.</p> <p>5. Install weep holes in head joints in exterior wythes of first course of masonry immediately above embedded weep holes.</p> <ol style="list-style-type: none"> Space weep holes 24 inches o.c. unless otherwise indicated. Cover cavity side of weep holes with plastic insect screening at cavities insulated with loose-fill insulation. Place cavity drainage material in cavities to comply with configuration requirements for cavity drainage material in "Miscellaneous Masonry Accessories" Article. Install vents in head joints in exterior wythes at spacing indicated. | <p>5. Install and connect bridging concurrently with joint erection, before construction loads are applied. Anchor ends of bridging on top and bottom chords if terminating at walls or beams.</p> <p>SECTION 053100 - STEEL DECKING</p> <p>PART 1 - GENERAL</p> <p>1.1 SUMMARY</p> <p>A. Section Includes:</p> <ol style="list-style-type: none"> 1. Roof deck. 2. Composite floor deck. <p>B. ACTION SUBROUTALS</p> <ol style="list-style-type: none"> 1. Shop Drawings: <ol style="list-style-type: none"> 1. Include layout and types of deck panels; anchorage details, reinforcing channels, pans, cut deck openings, special jointings, accessories, and attachments to other construction. <p>PART 2 - PRODUCTS</p> <p>2.1 PERFORMANCE REQUIREMENTS</p> <p>A. AISI Specifications: Specify with calculated structural characteristics of steel deck according to AISI 1001 "American Specification for the Design of Cold-Formed Steel Structural Members"</p> <p>2.2 ROOF DECK</p> <p>A. Manufacturers: Subject to compliance with requirements, allow manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:</p> <ol style="list-style-type: none"> 1. American Inland Steel Company |
|--|--|

SECTION 051200 - STRUCTURAL STEEL FRAMING

- 11.1 GENERAL
- A. Section Includes:
1. Structural steel.
 2. Grou.
 2. SUBMITTALS
 - A. Shop Drawings: Show fabrication of structural-steel components.
- PART 2 - PRODUCTS
1. PERFORMANCE REQUIREMENTS
- A. Connections: Provide details of simple shear connections required by the Contract Documents to be selected or completed by structural steel fabricator to withstand loads indicated and comply with design criteria and restrictions indicated.
 - B. Moment Connections: Type RF, fully restrained.
 - C. Construction: As indicated on the Drawings.
2. STRUCTURAL-STEEL MATERIALS
- A. W-Shapes: ASTM A 992/A 992M, ASTM A 572/A 572M, Grade 50 (345).
 - B. Channels, Angles, M or S-Shapes: ASTM A 36/A 36M, ASTM A 572/A 572M, Grade 50 (345).
 - C. Plate and Bar: ASTM A 36/A 36M, Grade 50 (345).
 - D. Cold-Formed Hollow Structural Sections: ASTM A 500/A 500M, Grade B, structural tubing.
 - E. Steel Pipe: ASTM A 53/A 53M, Type E or Type S, Grade 60.
 - F. Welding Electrodes: Comply with AISC requirements.
3. BOLTS, CONNECTORS, AND ANCHORS
- A. High-Strength Bolts, Nuts, and Washers: ASTM A 325 (ASTM A 325M), Type 1, heavy-heavy steel structural bolts; ASTM A 563, Grade C, ASTM A 563M, Class 85, heavy carbon-steel nuts; ASTM F 436 (ASTM F 436M), Type 1, hardened carbon-steel washers, all with plain finish.
 - B. Zinc-Coated High-Strength Bolts, Nuts, and Washers: ASTM A 325 (ASTM A 325M), Type 1, heavy-heavy steel structural bolts; ASTM A 563, Grade DH (ASTM A 563M, Class 105) heavy-heavy carbon-steel nuts; and ASTM F 436 (ASTM F 436M), Type 1, hardened carbon-steel washers.
 1. Finish: Hot-dip or mechanically deposited zinc coating.
 - C. Shear Connections: ASTM A 108, Grades 1015 through 1020, headed-steel type, cold-finished carbon steel. AWS D1.1/D1.1M, Type 3.
 - D. Unheated Anchor Rods: ASTM F 1554, Grade 36.
 1. Configuration: Hooked.
 2. Finish: Hot-dip zinc coating, ASTM A 153/A 153M, Class C.
 - E. Heated Anchor Rods: ASTM F 1554, Grade 36, straight.
 - F. Threaded Rods: ASTM A 153/A 153M, Class C.
 - G. Threaded Rods: ASTM A 36/A 36M.
 1. Finish: Hot-dip zinc coating, ASTM A 153/A 153M, Class C.
4. PRIMER
- A. Primer: Fabricator's standard lead- and chromate-free, nonasphalitic, rust-inhibiting primer complying with MFPA7 and compatible with topcoat.
5. GROUT
- A. Nonmetallized, Shrinkage-Resistant Grout: ASTM C 1107/C 1107M, factory-packaged, nonmetallized aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.
6. FABRICATION
- A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to the "Code of Standard Practice for Steel Buildings and Bridges" and to AISC 360.
 - B. Steel Connections: Prepare steel surfaces as recommended by manufacturer of shear connectors. Use automatic end welding of headed-steel shear connectors according to AWS D1.1/D1.1M and fabricator's written instructions.
7. SHOP CONNECTIONS
- A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting weld joint.
8. SHOP PRIMING
- A. Shop prime steel surfaces to the greatest extent possible.
 - B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits.
 - C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
- PART 3 - EXECUTION
- 3.1 EXAMINATION
- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchors, bearing plates, and other embedments for compliance with requirements.
- 3.2 ERECTION
- A. Set structural steel accurately in locations and to elevations indicated according to AISC 303 and AISC 360.
 - B. Basplate, Bearing Plates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
- 3.3 HIGH-STRENGTH BOLTS
- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting weld joint.
- 3.4 SHOP PRIMING
- A. Shop prime steel surfaces to the greatest extent possible.
 - B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits.
 - C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
- 3.5 ERECTION
- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchors, bearing plates, and other embedments for compliance with requirements.
 - B. Basplate, Bearing Plates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
- 3.6 HIGH-STRENGTH BOLTS
- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting weld joint.
- 3.7 SHOP PRIMING
- A. Shop prime steel surfaces to the greatest extent possible.
 - B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits.
 - C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
- 3.8 ERECTION
- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchors, bearing plates, and other embedments for compliance with requirements.
 - B. Basplate, Bearing Plates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
- 3.9 HIGH-STRENGTH BOLTS
- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting weld joint.
- 3.10 SHOP PRIMING
- A. Shop prime steel surfaces to the greatest extent possible.
 - B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits.
 - C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
- 3.11 ERECTION
- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchors, bearing plates, and other embedments for compliance with requirements.
 - B. Basplate, Bearing Plates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
- 3.12 HIGH-STRENGTH BOLTS
- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting weld joint.
- 3.13 SHOP PRIMING
- A. Shop prime steel surfaces to the greatest extent possible.
 - B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits.
 - C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
- 3.14 ERECTION
- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchors, bearing plates, and other embedments for compliance with requirements.
 - B. Basplate, Bearing Plates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
- 3.15 HIGH-STRENGTH BOLTS
- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting weld joint.
- 3.16 SHOP PRIMING
- A. Shop prime steel surfaces to the greatest extent possible.
 - B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits.
 - C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
- 3.17 ERECTION
- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchors, bearing plates, and other embedments for compliance with requirements.
 - B. Basplate, Bearing Plates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
- 3.18 HIGH-STRENGTH BOLTS
- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting weld joint.
- 3.19 SHOP PRIMING
- A. Shop prime steel surfaces to the greatest extent possible.
 - B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits.
 - C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
- 3.20 ERECTION
- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchors, bearing plates, and other embedments for compliance with requirements.
 - B. Basplate, Bearing Plates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
- 3.21 HIGH-STRENGTH BOLTS
- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
 - B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting weld joint.
- 3.22 SHOP PRIMING
- A. Shop prime steel surfaces to the greatest extent possible.
 - B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits.
 - C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
- 3.23 ERECTION
- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchors, bearing plates, and other embedments for compliance with requirements.
 - B. Basplate, Bearing Plates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
- 3.24 HIGH-STRENGTH

SECTION 052100 - STEEL JOIST FRAMING

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INTERNATIONAL
UNION OF NORTH
AMERICA LOCAL #41

UNION HALL
RENOVATION - 2025

550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
1	10/23/25	FOR PERMIT

DAVID R. HILL
REGISTERED
NO.
AR10600080
STATE OF
INDIANA
ARCHITECT

David R. Hill

ARCHITECTURAL
SPECIFICATIONS

SCALE: N.T.S. CLIENT: 096

DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

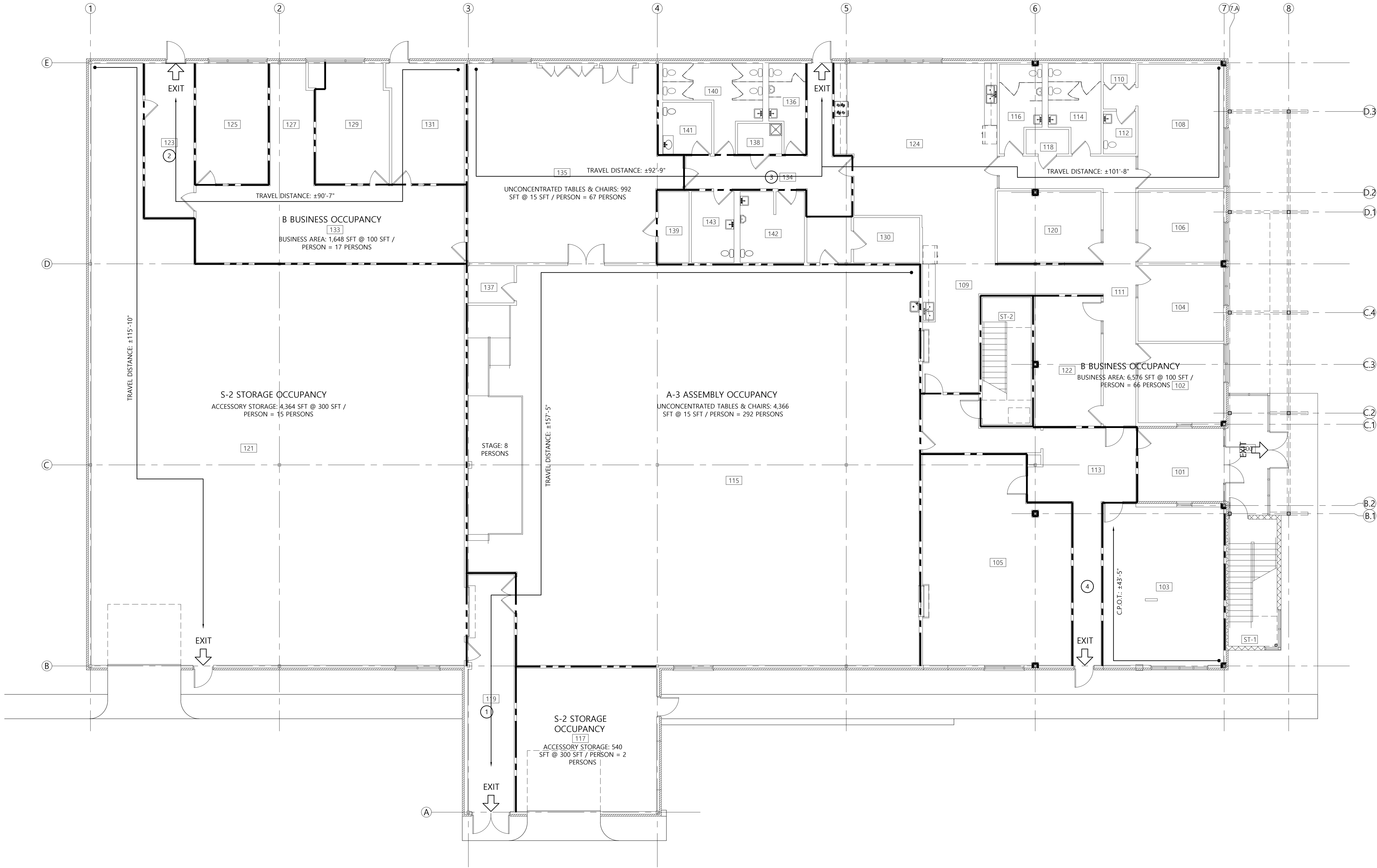
APPRVD: DRH

A0.1

SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES

- 1.1. GENERAL
- A. Section Includes hollow-metal work.
- 1.2. ACTION SUBMITTALS
- a. Product Data: For each type of product.
- b. Schedule: Provide a schedule of hollow-metal work prepared by or under the supervision of supplier, showing schedule numbers for details and openings as those on Drawings. Coordinate with final Door Hardware Schedule.
- 2.1. MANUFACTURERS
- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
- Ceco Door Products or Anso Alloy Group company.
 - Currys Company, an Anso Alloy Group company.
 - Dwyer.
 - DSS Steel Door & Frame Sys. Inc.
 - Hollow Metal Express.
 - Intersteel, an Ingersoll-Rand Company.
- B. Source Limitations: Obtain hollow-metal work from single source from single manufacturer.
- 2.2. REGULATORY REQUIREMENTS
- A. Fire-Rated Assemblies: Complying with NFPA 80 and listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction for fire-protection ratings and temperature-rise limits indicated based on testing at positive pressure according to NFPA 252 or UL 10C.
- B. Smoke and Draft-Control Assemblies: Provide an assembly with gaskets listed and labeled for smoke and draft control by a qualified testing agency acceptable to authorities having jurisdiction, based on testing according to UL 1784 and installed in compliance with NFPA 105.
- 2.3. INTERIOR DOORS AND FRAMES
- A. Standard-Utility Interior Doors and Frames: SDA A250.8, Level 1: At locations indicated in the Door and Frame Schedule.
- B. Physical Performance: Level C according to SDA A250.4.
- 2.4. DOORS
- a. Type: As indicated in the Door and Frame Schedule.
- b. Thickness: 1-3/4 inches.
- c. Face: Uncoated, cold-rolled steel sheet, minimum thickness of 0.032 inch.
- d. Edge Construction: Model 1, Full Flush.
- e. Core: Kraft-paper honeycomb.
- f. Frames:
- Materials: Uncoated, cold-rolled steel sheet, minimum thickness of 0.042 inch.
 - Construction: Full profile welded.
 - Exposed Finish: Prime.
- 2.5. EXTERIOR HOLLOW-METAL DOORS AND FRAMES
- A. Heavy-Duty Doors and Frames: SDA A250.8, Level 2: At locations indicated in the Door and Frame Schedule.
- B. Physical Performance: Level B according to SDA A250.4.
- 2.6. DOORS
- a. Type: As indicated in the Door and Frame Schedule.
- b. Thickness: 1-3/4 inches.
- c. Face: Metallic-coated steel sheet, minimum thickness of 0.042 inch, with minimum A40 (2720) coating.
- d. Edge Construction: Model 1, Full Flush.
- e. Core: Polycycanurate.
- f. Frames:
- Materials: Metallic-coated steel sheet, minimum thickness of 0.053 inch, with minimum A40 (2720) coating.
 - Construction: Full profile welded.
 - Exposed Finish: Prime.
- 2.7. FRAME ANCHORS
- A. Jamb Anchors:
- Masonry Type: Adjustable strap-and-stop or T-shaped anchors to set frame size, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
 - Stud-Wall Type: Designed to engage stud, welded to back of frame; not less than 0.042 inch thick.
 - Compression Type: For Drywall Slip-on Frames: Adjustable compression anchors.
 - Posttensioned Expansion Type: For in-Place Concrete or Masonry: Minimum 3/8-inch diameter bolts with expansion shields or inserts. Provide size spacer sleeve between frame to wall, with three reinforcement plate, welded to frame at each anchor location.
- B. Floor Anchors: Formed from same material as frames, minimum thickness of 0.042 inch, and as follows:
- Monolithic Concrete Slabs: Clip-type anchors, with two holes to receive fasteners.
 - Separate Topping Concrete Slabs: Adjustable-type anchors with extension clips, allowing not less than 2-inch height adjustment. Terminate bottom of frames at finish floor surface.
- 2.8. MATERIALS
- A. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M.
- B. GROUT: ASTM C 476, except with a maximum slump of 4 inches, as measured according to ASTM C 143/C 143M.
- C. Mineral-Fiber Insulation: ASTM C 665, Type 1 (blankets without membrane facing); consisting of fibers manufactured from slag or rock wool with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, passing ASTM E 136 for combustion characteristics.
- 2.9. GLAZING
- Comply with requirements in Section 08800 "Glazing".
- 2.10. FABRICATION
- A. Fabricate hollow-metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for metal thickness. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.
- B. Hollow-Metal Doors:
- Steel-Stiffened Door Cores: Provide minimum thickness 0.026 inch, steel vertical stiffeners of same material as face sheets extending full-door height, with vertical webs spaced not more than 6 inches apart. Spot weld to face sheets no more than 5 inches o.c. Fill spaces between stiffeners with glass or mineral-fiber insulation.
 - Fire Door Cores: As required to provide fire-protection ratings and tests.
 - Vertical Edges for Single-Acting Doors: Bevel edges 1/8 inch in 2 inches.
 - Top Edge Closures: Close top edges of doors with inverted closures, except provide flush closures at exterior doors of same material as face sheets.
 - Bottom Edge Closures: Close bottom edges of doors with inverted closures for attachment of weather stripping with end closures or channels of same material as face sheets.
 - Exterior Doors: Provide weep-hole openings in bottoms of exterior doors to permit moisture to escape. Seal joints in top edges of doors against water penetration.
 - Astragals: Provide overlapping astragal on one leaf of pairs of doors with required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted or as required to comply with published listing of qualified testing agency.
- C. Hollow-Metal Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment joints or angles at each joint, fabricated from same thickness metal as frames.
- D. Sidelight Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame members at crossings and be joined by butt welding.
- E. Provide countersunk, flat, or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
- F. GROUT: Guards: Weld guards to frame at back of frame and mortises in frames to be grouted.
- G. Floor Anchors: Weld anchors to bottoms of jambs with at least four spot welds per anchor; however, for slip-on drywall frames, provide anchor clips or countersunk holes at bottoms of jambs.
- H. Jamb Anchors: Provide number and spacing of anchors as follows:
- Masonry Type: Locate anchors not more than 16 inches from top and bottom of frame. Space anchors not more than 32 inches o.c., to match coursing, and as follows:
 - Two anchors per jamb up to 60 inches high.
 - Three anchors per jamb from 60 to 90 inches high.
 - Four anchors per jamb from 90 to 120 inches high.
 - Four anchors per jamb plus one additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.
- I. Stud-Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
- Three anchors per jamb up to 60 inches high.
 - Four anchors per jamb from 60 to 90 inches high.
 - Five anchors per jamb from 90 to 96 inches high.
 - Five anchors per jamb plus one additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
- J. Posttensioned Expansion Type: Locate anchors not more than 6 inches from top and bottom of frame. Space anchors not more than 26 inches o.c.
- K. Head Anchors: Two anchors per head for frames more than 42 inches wide and mounted in metal-stud partitions.
- L. Section: Obtain on weather-stripped frames, drill stops to receive door sleners as follows: keep holes clear during construction.
- M. Single-Door Frames: Drill stop in strike jamb to receive three door sleners.
- N. Double-Door Frames: Drill stop in head jamb to receive two door sleners.
- O. Terminated Stops: Terminate stops 6 inches above finish floor with a 45-degree angle cut, and close open end of stop with steel sheet closure. Cover opening in extension of frame with welded-steel filler plate, with welds ground smooth and flush with frame.
- P. Fabricate concealed stiffeners and edge channels from cold- or hot-rolled steel sheet.
- Q. Hardware Preparation: Factory prepare hollow-metal work to receive templated mortised hardware: include cutouts, reinforcement, mortising, drilling and tapping according to SDA A250.6, the Door Hardware Schedule, and templates.
- 2.11. STOPS AND MOLDINGS: Provide stops and moldings around glazed lites and louvers where indicated. Form corners of stops and moldings with mitered hairline joints.
- 2.12. STEEL FINISHES
- A. Prime Finish: Clean, pretreat, and apply manufacturer's standard prime.
- B. Factory Finish: Clean, pretreat, and apply manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat, complying with SDA A250.1.
1. Color and Gloss: As selected by Architect from manufacturer's full range.
- 2.13. INSTALLATION
- A. General: Install hollow-metal work plumb, rigid, properly aligned, and securely fastened in place. Comply with Drawings and manufacturer's written instructions.
- B. Hollow-Metal Frames: Install hollow-metal frames of size and profile indicated. Comply with SDA A250.11 or NAAMM-HMMA 840 as required by standards specified.
1. Set frames accurately in position; plumb, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary bracing, leaving surfaces smooth and undamaged.
2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with posttensioned expansion anchors.
3. Metal-Stud Partitions: Solidly pack mineral-fiber insulation inside frames.
4. Masonry Wall: Coordinate installation of frames to allow for sloping filling space between frames and masonry with grout.
5. Installation Tolerances: Adjust hollow-metal door frames for squariness, alignment, twist, and plumb to the following tolerances:
- Squariness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from frame perpendicular to frame head.
 - Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
 - Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 - Plumbness: Plus or minus 1/16 inch, measured at jambs at floor.
- C. Hollow-Metal Doors: Fit hollow-metal doors accurately in frames, within clearances specified below. Shim as necessary.
- Non-Fire-Rated Steel Doors:
 - Between Door and Frame Jambs and Head: 1/8 inch plus or minus 1/32 inch.
 - At Bottom of Door: 3/4 inch plus or minus 1/32 inch.
 - Between Door Face and Stop: 1/16 inch to 1/8 inch plus or minus 1/32 inch.
 - Between Door and Frame Jambs and Head: 1/8 inch plus or minus 1/32 inch.
 - Smoke-Control Doors: Install doors and gaskets according to NFPA 80.
 - Glazing: Comply with installation requirements in Section 08800 "Glazing" and with hollow-metal manufacturer's written instructions.
 - Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.
- 2.2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- 2.1. GENERAL
- 1.1. SUMMARY
- A. Section Includes:
- Access doors and frames for walls and ceilings.
- 2.1.2. PRODUCTS
1. PERFORMANCE REQUIREMENTS
- A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics according to the following test method and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- NFPA 252 or UL 10B for fire-rated access door assemblies installed vertically.
 - NFPA 288 for fire-rated access door assemblies installed horizontally.
2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
- Jerren Industries, Div. of Iron-Nutone, LLC.
 - J.L. Industries, Inc. Div. of Activar Construction Products Group.
 - Larsen's Manufacturing Company.
 - Maxon Metal Products Limited.
 - Milcor Inc.
- B. Source Limitations: Obtain each type of access door and frame from single source from single manufacturer.
- C. Flush Access Doors with Exposed Frames:
- Assemblies: Subject to compliance with requirements, available manufacturers offering products standard with exposed frame, proportional to door size.
 - Uncoated Steel Sheet for Door: Nominal 0.060 inch, 16 gauge.
 - Finish: Factory finish.
 - Frame Material: Same material, thickness, and finish as door.
 - Hinges: Manufacturer's standard.
 - Hardware: Lock.
- D. Hardware:
- Latch: Cam latch operated by flush key.
 - Lock Cylinder.
- 2.3. MATERIALS
- A. Steel Plates, Sheets, and Bars: ASTM A 36/A 36M.
- B. Steel Sheet: Uncoated, cold-rolled steel sheet, minimum thickness of 0.032 inch, with cold-rolled steel sheet substrate complying with ASTM A 1008/A 1008M, Commercial Steel (CS), exposed.
- C. Frame Anchors: Same type as door face.
- D. Inserts, Bolts, and Fasteners: Hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
- 2.4. FABRICATION
- A. General: Fabricate access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Finish attachment devices and fasteners of type required to secure access doors to types of supports indicated.
- Provide mounting holes in frames for attachment of metal or wood framing.
- D. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.
- E. Finishes
- A. Comply with NAAMM's "Metal Finishes: Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Steel and Metallic-Coated-Steel Finishes:
- Factory Prime: Apply manufacturer's standard, fast-curing, lead- and chrome-free, universal primer immediately after surface preparation and pretreatment.
 - Between Edges of Pairs of Doors: 1/8 inch to 1/4 inch plus or minus 1/32 inch.
 - At Bottom of Door: 3/4 inch plus or minus 1/32 inch.
 - Between Door Face and Stop: 1/16 inch to 1/8 inch plus or minus 1/32 inch.
 - Smoke-Control Doors: Install doors and gaskets according to NFPA 80.
 - Glazing: Comply with installation requirements in Section 08800 "Glazing" and with hollow-metal manufacturer's written instructions.
 - Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.
- 2.2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- 2.1. GENERAL
- 1.1. SUMMARY
- A. Section Includes:
- Access doors and frames for walls and ceilings.
- 2.1.2. PRODUCTS
1. PERFORMANCE REQUIREMENTS
- A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics according to the following test method and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- NFPA 252 or UL 10B for fire-rated access door assemblies installed vertically.
 - NFPA 288 for fire-rated access door assemblies installed horizontally.
2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
- Jerren Industries, Div. of Iron-Nutone, LLC.
 - J.L. Industries, Inc. Div. of Activar Construction Products Group.
 - Larsen's Manufacturing Company.
 - Maxon Metal Products Limited.
 - Milcor Inc.
- B. Source Limitations: Obtain each type of access door and frame from single source from single manufacturer.
- C. Flush Access Doors with Exposed Frames:
- Assemblies: Subject to compliance with requirements, available manufacturers offering products standard with exposed frame, proportional to door size.
 - Uncoated Steel Sheet for Door: Nominal 0.060 inch, 16 gauge.
 - Finish: Factory finish.
 - Frame Material: Same material, thickness, and finish as door.
 - Hinges: Manufacturer's standard.
 - Hardware: Lock.
- D. Hardware:
- Latch: Cam latch operated by flush key.
 - Lock Cylinder.
- 2.3. MATERIALS
- A. Steel Plates, Sheets, and Bars: ASTM A 36/A 36M.
- B. Steel Sheet: Uncoated, cold-rolled steel sheet, minimum thickness of 0.032 inch, with cold-rolled steel sheet substrate complying with ASTM A 1008/A 1008M, Commercial Steel (CS), exposed.
- C. Frame Anchors: Same type as door face.
- D. Inserts, Bolts, and Fasteners: Hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
- 2.4. FABRICATION
- A. General: Fabricate access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Finish attachment devices and fasteners of type required to secure access doors to types of supports indicated.
- Provide mounting holes in frames for attachment of metal or wood framing.
- D. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.
- E. Finishes
- A. Comply with NAAMM's "Metal Finishes: Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Steel and Metallic-Coated-Steel Finishes:
- Factory Prime: Apply manufacturer's standard, fast-curing, lead- and chrome-free, universal primer immediately after surface preparation and pretreatment.
 - Between Edges of Pairs of Doors: 1/8 inch to 1/4 inch plus or minus 1/32 inch.
 - At Bottom of Door: 3/4 inch plus or minus 1/32 inch.
 - Between Door Face and Stop: 1/16 inch to 1/8 inch plus or minus 1/32 inch.
 - Smoke-Control Doors: Install doors and gaskets according to NFPA 80.
 - Glazing: Comply with installation requirements in Section 08800 "Glazing" and with hollow-metal manufacturer's written instructions.
 - Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.
- 2.2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- 2.1. GENERAL
- 1.1. SUMMARY
- A. Section Includes:
- Access doors and frames for walls and ceilings.
- 2.1.2. PRODUCTS
1. PERFORMANCE REQUIREMENTS
- A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics according to the following test method and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- NFPA 252 or UL 10B for fire-rated access door assemblies installed vertically.
 - NFPA 288 for fire-rated access door assemblies installed horizontally.
2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
- Jerren Industries, Div. of Iron-Nutone, LLC.
 - J.L. Industries, Inc. Div. of Activar Construction Products Group.
 - Larsen's Manufacturing Company.
 - Maxon Metal Products Limited.
 - Milcor Inc.
- B. Source Limitations: Obtain each type of access door and frame from single source from single manufacturer.
- C. Flush Access Doors with Exposed Frames:
- Assemblies: Subject to compliance with requirements, available manufacturers offering products standard with exposed frame, proportional to door size.
 - Uncoated Steel Sheet for Door: Nominal 0.060 inch, 16 gauge.
 - Finish: Factory finish.
 - Frame Material: Same material, thickness, and finish as door.
 - Hinges: Manufacturer's standard.
 - Hardware: Lock.
- D. Hardware:
- Latch: Cam latch operated by flush key.
 - Lock Cylinder.
- 2.3. MATERIALS
- A. Steel Plates, Sheets, and Bars: ASTM A 36/A 36M.
- B. Steel Sheet: Uncoated, cold-rolled steel sheet, minimum thickness of 0.032 inch, with cold-rolled steel sheet substrate complying with ASTM A 1008/A 1008M, Commercial Steel (CS), exposed.
- C. Frame Anchors: Same type as door face.
- D. Inserts, Bolts, and Fasteners: Hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
- 2.4. FABRICATION
- A. General: Fabricate access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Finish attachment devices and fasteners of type required to secure access doors to types of supports indicated.
- Provide mounting holes in frames for attachment of metal or wood framing.
- D. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.
- E. Finishes
- A. Comply with NAAMM's "Metal Finishes: Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Steel and Metallic-Coated-Steel Finishes:
- Factory Prime: Apply manufacturer's standard, fast-curing, lead- and chrome-free, universal primer immediately after surface preparation and pretreatment.
 - Between Edges of Pairs of Doors: 1/8 inch to 1/4 inch plus or minus 1/32 inch.
 - At Bottom of Door: 3/4 inch plus or minus 1/32 inch.
 - Between Door Face and Stop: 1/16 inch to 1/8 inch plus or minus 1/32 inch.
 - Smoke-Control Doors: Install doors and gaskets according to NFPA 80.
 - Glazing: Comply with installation requirements in Section 08800 "Glazing" and with hollow-metal manufacturer's written instructions.
 - Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.
- 2.2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- 2.1. GENERAL
- 1.1. SUMMARY
- A. Section Includes:
- Access doors and frames for walls and ceilings.
- 2.1.2. PRODUCTS
1. PERFORMANCE REQUIREMENTS
- A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics according to the following test method and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- NFPA 252 or UL 10B for fire-rated access door assemblies installed vertically.
 - NFPA 288 for fire-rated access door assemblies installed horizontally.
2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
- Jerren Industries, Div. of Iron-Nutone, LLC.
 - J.L. Industries, Inc. Div. of Activar Construction Products Group.
 - Larsen's Manufacturing Company.
 - Maxon Metal Products Limited.
 - Milcor Inc.
- B. Source Limitations: Obtain each type of access door and frame from single source from single manufacturer.
- C. Flush Access Doors with Exposed Frames:
- Assemblies: Subject to compliance with requirements, available manufacturers offering products standard with exposed frame, proportional to door size.
 - Uncoated Steel Sheet for Door: Nominal 0.060 inch, 16 gauge.
 - Finish: Factory finish.
 - Frame Material: Same material, thickness, and finish as door.
 - Hinges: Manufacturer's standard.
 - Hardware: Lock.
- D. Hardware:
- Latch: Cam latch operated by flush key.
 - Lock Cylinder.
- 2.3. MATERIALS
- A. Steel Plates, Sheets, and Bars: ASTM A 36/A 36M.
- B. Steel Sheet: Uncoated, cold-rolled steel sheet, minimum thickness of 0.032 inch, with cold-rolled steel sheet substrate complying with ASTM A 1008/A 1008M, Commercial Steel (CS), exposed.
- C. Frame Anchors: Same type as door face.
- D. Inserts, Bolts, and Fasteners: Hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
- 2.4. FABRICATION
- A. General: Fabricate access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Finish attachment devices and fasteners of type required to secure access doors to types of supports indicated.
- Provide mounting holes in frames for attachment of metal or wood framing.
- D. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.
- E. Finishes
- A. Comply with NAAMM's "Metal Finishes: Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Steel and Metallic-Coated-Steel Finishes:
- Factory Prime: Apply manufacturer's standard, fast-curing, lead- and chrome-free, universal primer immediately after surface preparation and pretreatment.
 - Between Edges of Pairs of Doors: 1/8 inch to 1/4 inch plus or minus 1/32 inch.
 - At Bottom of Door: 3/4 inch plus or minus 1/32 inch.
 - Between Door Face and Stop: 1/16 inch to 1/8 inch plus or minus 1/32 inch.
 - Smoke-Control Doors: Install doors and gaskets according to NFPA 80.
 - Glazing: Comply with installation requirements in Section 08800 "Glazing" and with hollow-metal manufacturer's written instructions.
 - Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.
- 2.2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- 2.1. GENERAL
- 1.1. SUMMARY
- A. Section Includes:
- Access doors and frames for walls and ceilings.
- 2.1.2. PRODUCTS
1. PERFORMANCE REQUIREMENTS
- A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics according to the following test method and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- NFPA 252 or UL 10B for fire-rated access door assemblies installed vertically.
 - NFPA 288 for fire-rated access door assemblies installed horizontally.
2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
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 - J.L. Industries, Inc. Div. of Activar Construction Products Group.
 - Larsen's Manufacturing Company.
 - Maxon Metal Products Limited.
 - Milcor Inc.
- B. Source Limitations: Obtain each type of access door and frame from single source from single manufacturer.
- C. Flush Access Doors with Exposed Frames:
- Assemblies: Subject to compliance with requirements, available manufacturers offering products standard with exposed frame, proportional to door size.
 - Uncoated Steel Sheet for Door: Nominal 0.060 inch, 16 gauge.
 - Finish: Factory finish.
 - Frame Material: Same material, thickness, and finish as door.
 - Hinges: Manufacturer's standard.
 - Hardware: Lock.
- D. Hardware:
- Latch: Cam latch operated by flush key.
 - Lock Cylinder.
- 2.3. MATERIALS
- A. Steel Plates, Sheets, and Bars: ASTM A 36/A 36M.
- B. Steel Sheet: Uncoated, cold-rolled steel sheet, minimum thickness of 0.032 inch, with cold-rolled steel sheet substrate complying with ASTM A 1008/A 1008M, Commercial Steel (CS), exposed.
- C. Frame Anchors: Same type as door face.
- D. Inserts, Bolts, and Fasteners: Hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
- 2.4. FABRICATION
- A. General: Fabricate access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Finish attachment devices and fasteners of type required to secure access doors to types of supports indicated.
- Provide mounting holes in frames for attachment of metal or wood framing.
- D. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.
- E. Finishes
- A. Comply with NAAMM's "Metal Finishes: Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Steel and Metallic-Coated-Steel Finishes:
- Factory Prime: Apply manufacturer's standard, fast-curing, lead- and chrome-free, universal primer immediately after surface preparation and pretreatment.
 - Between Edges of Pairs of Doors: 1/8 inch to 1/4 inch plus or minus 1/32 inch.
 - At Bottom of Door: 3/4 inch plus or minus 1/32 inch.
 - Between Door Face and Stop: 1/16 inch to 1/8 inch plus or minus 1/32 inch.
 - Smoke-Control Doors: Install doors and gaskets according to NFPA 80.
 - Glazing: Comply with installation requirements in Section 08800 "Glazing" and with hollow-metal manufacturer's written instructions.
 - Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.
- 2.2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- 2.1. GENERAL
- 1.1. SUMMARY
- A. Section Includes:
- Access doors and frames for walls and ceilings.
- 2.1.2. PRODUCTS
1. PERFORMANCE REQUIREMENTS
- A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics according to the following test method and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- NFPA 252 or UL 10B for fire-rated access door assemblies installed vertically.
 - NFPA 288 for fire-rated access door assemblies installed horizontally.
2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
- Jerren Industries, Div. of Iron-Nutone, LLC.
 - J.L. Industries, Inc. Div. of Activar Construction Products Group.
 - Larsen's Manufacturing Company.
 - Maxon Metal Products Limited.
 - Milcor Inc.
- B. Source Limitations: Obtain each type of access door and frame from single source from single manufacturer.
- C. Flush Access Doors with Exposed Frames:
- Assemblies: Subject to compliance with requirements, available manufacturers offering products standard with exposed frame, proportional to door size.
 - Uncoated Steel Sheet for Door: Nominal 0.060 inch, 16 gauge.
 - Finish: Factory finish.
 - Frame Material: Same material, thickness, and finish as door.
 - Hinges: Manufacturer's standard.
 - Hardware: Lock.
- D. Hardware:
- Latch: Cam latch operated by flush key.
 - Lock Cylinder.
- 2.3. MATERIALS
- A. Steel Plates, Sheets, and Bars: ASTM A 36/A 36M.
- B. Steel Sheet: Uncoated, cold-rolled steel sheet, minimum thickness of 0.032 inch, with cold-rolled steel sheet substrate complying with ASTM A 1008/A 1008M, Commercial Steel (CS), exposed.
- C. Frame Anchors: Same type as door face.
- D. Inserts, Bolts, and Fasteners: Hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
- 2.4. FABRICATION
- A. General: Fabricate access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Finish attachment devices and fasteners of type required to secure access doors to types of supports indicated.
- Provide mounting holes in frames for attachment of metal or wood framing.
- D. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.
- E. Finishes
- A. Comply with NAAMM's "Metal Finishes: Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Steel and Metallic-Coated-Steel Finishes:
- Factory Prime: Apply manufacturer's standard, fast-curing, lead- and chrome-free, universal primer immediately after surface preparation and pretreatment.
 - Between Edges of Pairs of Doors: 1/8 inch to 1/4 inch plus or minus 1/32 inch.
 - At Bottom of Door: 3/4 inch plus or minus 1/32 inch.
 - Between Door Face and Stop: 1/16 inch to 1/8 inch plus or minus 1/32 inch.
 - Smoke-Control Doors: Install doors and gaskets according to NFPA 80.
 - Glazing: Comply with installation requirements in Section 08800 "Glazing" and with hollow-metal manufacturer's written instructions.
 - Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.
- 2.2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- 2.1. GENERAL
- 1.1. SUMMARY
- A. Section Includes:
- Access doors and frames for walls and ceilings.
- 2.1.2. PRODUCTS
1. PERFORMANCE REQUIREMENTS
- A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics according to the following test method and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- NFPA 252 or UL 10B for fire-rated access door assemblies installed vertically.
 - NFPA 288 for fire-rated access door assemblies installed horizontally.
2. ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
- Jerren Industries, Div. of Iron-Nutone, LLC.
 - J.L. Industries, Inc. Div. of Activar Construction Products Group.
 - Larsen's Manufacturing Company.
 - Maxon Metal Products Limited.
 - Milcor Inc.
- B. Source Limitations: Obtain each type of access door and frame from single source from single manufacturer.
- C. Flush Access Doors with Exposed Frames:
- Assemblies: Subject to compliance with requirements, available manufacturers offering products standard with exposed frame, proportional to door size.
 - Uncoated Steel Sheet for Door: Nominal 0.060 inch, 16 gauge.
 - Finish: Factory finish.
 - Frame Material: Same material, thickness, and finish as door.
 - Hinges: Manufacturer's standard.
 - Hardware: Lock.
- D. Hardware:
- Latch: Cam latch operated by flush key.
 - Lock Cylinder.
- 2.3. MATERIALS
- A. Steel Plates, Sheets, and Bars: ASTM A 36/A 36M.
- B. Steel Sheet: Uncoated, cold-rolled steel sheet, minimum thickness of 0.032 inch, with cold-rolled steel sheet substrate complying with ASTM A 1008/A 1008M, Commercial Steel (CS), exposed.
- C. Frame Anchors: Same type as door face.
- D. Inserts, Bolts, and Fasteners: Hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.
- 2.4. FABRICATION
- A. General: Fabricate access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Finish attachment devices and fasteners of type required to secure access doors to types of supports indicated.
- Provide mounting holes in frames for attachment of metal or wood framing.
- D. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.
- E. Finishes
- A. Comply with NAAMM's "Metal Finishes: Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Steel and Metallic-Coated-Steel Finishes:
- Factory Prime: Apply manufacturer's standard, fast-curing, lead- and chrome-free, universal primer immediately after surface preparation and pretreatment.
 - Between Edges of Pairs of Doors: 1/8 inch to 1/4 inch plus or minus 1/32 inch.
 - At Bottom of Door: 3/4 inch plus or minus 1/32 inch.
 - Between Door Face and Stop: 1/16 inch to 1/8 inch plus or minus 1/32 inch.
 - Smoke-Control Doors: Install doors and gaskets according to NFPA 80.
 - Glazing: Comply with installation requirements in Section 08800 "Glazing" and with hollow-metal manufacturer's written instructions.
 - Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.
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SECTION 08 80 00 - GLAZING	compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.	F. Installation Techniques: Install suspension systems that are level to within 1/8 inch in 12 feet measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.	Other characteristics indicated.
1. GENERAL	H. Apply cap bead of elastomeric sealant over exposed edge of tape.	ANSI Standards for The Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in the installation schedules, and other requirements specified.	1. General
1.1. SUMMARY	A. Section Includes:	C. Factory Blending: For the exhibiting color variations within brenns, blend tile in factory and package so the units taken from one package show same range in colors as those taken from other packages and match appropriate color.	1.1. SUMMARY
A. Section includes:	1. Gaskets for windows, doors, interior borrowed lites and storefront framing.	D. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer's unless otherwise indicated.	A. Section Includes:
2. ACTION SUBMITTALS	A. Gazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.	E. Tile Products:	1. Interior gypsum board.
A. Gazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.	B. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blimiesh exceeding those allowed by referenced laminated-glass standard.	2. Tile backing panels.	2. Tile backing panels.
B. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	C. Warranty Period: Five years from date of Substantial Completion.	3. Tile products.	3. Tile products.
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AE. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AF. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	32. Tile products.	32. Tile products.
AF. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AG. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	33. Tile products.	33. Tile products.
AG. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AH. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	34. Tile products.	34. Tile products.
AH. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AI. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	35. Tile products.	35. Tile products.
AI. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AJ. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	36. Tile products.	36. Tile products.
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AK. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AL. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	38. Tile products.	38. Tile products.
AL. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AM. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	39. Tile products.	39. Tile products.
AM. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AN. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	40. Tile products.	40. Tile products.
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AO. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AP. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	42. Tile products.	42. Tile products.
AP. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AQ. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	43. Tile products.	43. Tile products.
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AR. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AS. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	45. Tile products.	45. Tile products.
AS. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AT. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	46. Tile products.	46. Tile products.
AT. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AU. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	47. Tile products.	47. Tile products.
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AV. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AW. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	49. Tile products.	49. Tile products.
AW. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AX. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	50. Tile products.	50. Tile products.
AX. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AY. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	51. Tile products.	51. Tile products.
AY. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	AZ. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	52. Tile products.	52. Tile products.
AZ. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	BA. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	53. Tile products.	53. Tile products.
BA. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	BB. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	54. Tile products.	54. Tile products.
BB. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	BC. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use or attributed to glass breakage or to maintaining and cleaning ins		



PLAN SYMBOLS:

- ① COLUMN LINE DESIGNATION
- ① PLAN NOTE DESIGNATION
- ±0.00'-0" T.O.X. ELEVATION HEIGHT DESIGNATION
- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION
- 1 HOUR RATED PARTITION
- 2 HOUR RATED PARTITION
- 3 HOUR RATED PARTITION

GENERAL LIFE SAFETY NOTES:

1. APPLICABLE CODES:
 - 1.1. INDIANA BUILDING CODE, 2014 EDITION (IBC, 2012 EDITION & ANSI A17.1-2009 AS AMENDED)
 - 1.2. INDIANA PLUMBING CODE, 2012 EDITION (IPC, 2006 EDITION AS AMENDED)
 - 1.3. INDIANA ELECTRICAL CODE, 2009 EDITION (NFPA 70-2008 AS AMENDED)
 - 1.4. INDIANA MECHANICAL CODE, 2014 EDITION (IMC, 2012 EDITION AS AMENDED)
 - 1.5. INDIANA ENERGY CONSERVATION CODE (ASHRAE 90.1, 2007 EDITION AS AMENDED)
 - 1.6. INDIANA FIRE CODE (IFC, 2012 EDITION AS AMENDED)
 - 1.7. INDIANA ELEVATOR SAFETY CODE (ANSI/ASME A17.1, 2007 EDITION AS AMENDED)
 - 1.8. NFPA 10-2010 PORTABLE FIRE EXTINGUISHERS
 - 1.9. NFPA 13-2010 INSTALLATION OF SPRINKLER SYSTEMS
 - 1.10. NFPA 70-2008 NATIONAL ELECTRICAL CODE
 - 1.11. NFPA 72-2010 NATIONAL FIRE ALARM CODE
2. REFER TO CODE MATRIX FOR ADDITIONAL CODE INFORMATION.

KEYED PLAN NOTES:

1. CORRIDOR SERVES OCCUPANT LOAD OF 292 PERSONS FOR A REQUIRED WIDTH OF 58.4' @ 0.2" PER OCCUPANT. ACTUAL CORRIDOR WIDTH = 91".
2. CORRIDOR SERVES OCCUPANT LOAD OF 84 PERSONS FOR A REQUIRED WIDTH OF 16.8' @ 0.2" PER OCCUPANT (44" MIN.). ACTUAL CORRIDOR WIDTH = 96".
3. CORRIDOR SERVES OCCUPANT LOAD OF 133 PERSONS FOR A REQUIRED WIDTH OF 26.6' @ 0.2" PER OCCUPANT (44" MIN.). ACTUAL CORRIDOR WIDTH = 48".
4. CORRIDOR SERVES OCCUPANT LOAD OF 230 PERSONS FOR A REQUIRED WIDTH OF 46' @ 0.2" PER OCCUPANT. ACTUAL CORRIDOR WIDTH = 54".

1 FIRST FLOOR LIFE SAFETY PLAN

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

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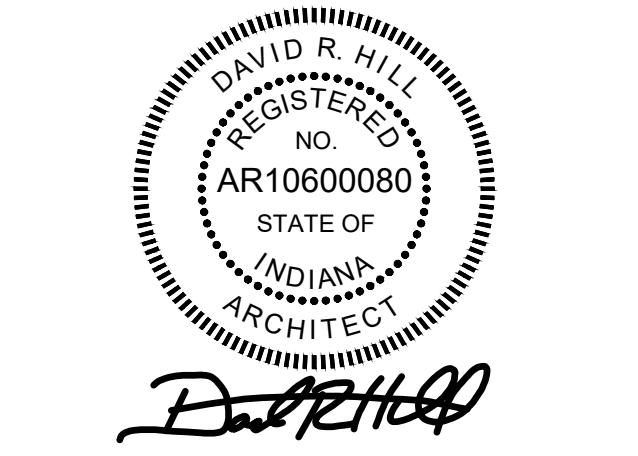
LiUNA!
Feel the Power

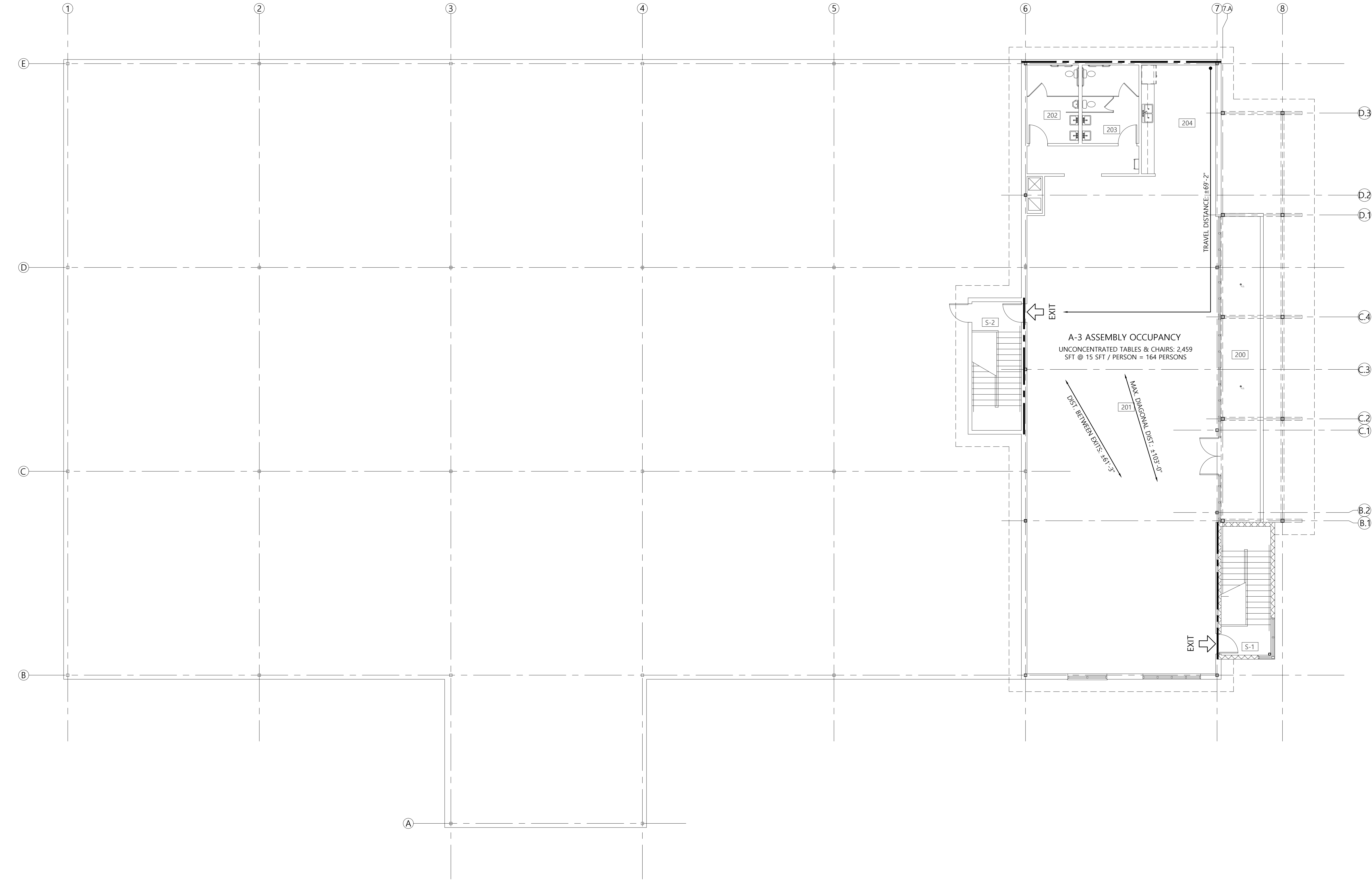
LABORER'S
INTERNATIONAL
UNION OF NORTH
AMERICA LOCAL #41

UNION HALL
RENOVATION - 2025

550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
1	10/23/25	FOR PERMIT





PLAN SYMBOLS:

- ① COLUMN LINE DESIGNATION
- ① PLAN NOTE DESIGNATION
- 0'-0" T.O.X. ELEVATION HEIGHT DESIGNATION
- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION
- 1 HOUR RATED PARTITION
- 2 HOUR RATED PARTITION
- 3 HOUR RATED PARTITION

GENERAL LIFE SAFETY NOTES:

1. APPLICABLE CODES:
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2. REFER TO CODE MATRIX FOR ADDITIONAL CODE INFORMATION.

KEYED PLAN NOTES:

1. CORRIDOR SERVES OCCUPANT LOAD OF 292 PERSONS FOR A REQUIRED WIDTH OF 58.4' @ 0.2' PER OCCUPANT. ACTUAL CORRIDOR WIDTH = 91'.
2. CORRIDOR SERVES OCCUPANT LOAD OF 84 PERSONS FOR A REQUIRED WIDTH OF 16.8' @ 0.2' PER OCCUPANT (44' MIN.). ACTUAL CORRIDOR WIDTH = 96'.
3. CORRIDOR SERVES OCCUPANT LOAD OF 133 PERSONS FOR A REQUIRED WIDTH OF 26.6' @ 0.2' PER OCCUPANT (44' MIN.). ACTUAL CORRIDOR WIDTH = 48'.
4. CORRIDOR SERVES OCCUPANT LOAD OF 230 PERSONS FOR A REQUIRED WIDTH OF 46' @ 0.2' PER OCCUPANT. ACTUAL CORRIDOR WIDTH = 54'.

1 SECOND FLOOR LIFE SAFETY PLAN

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

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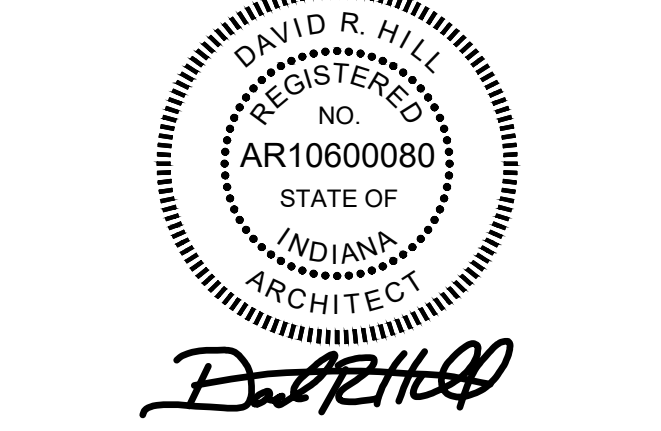
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Feel the Power

LABORER'S
INTERNATIONAL
UNION OF NORTH
AMERICA LOCAL #41

UNION HALL
RENOVATION - 2025

550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
1	10/23/25	FOR PERMIT

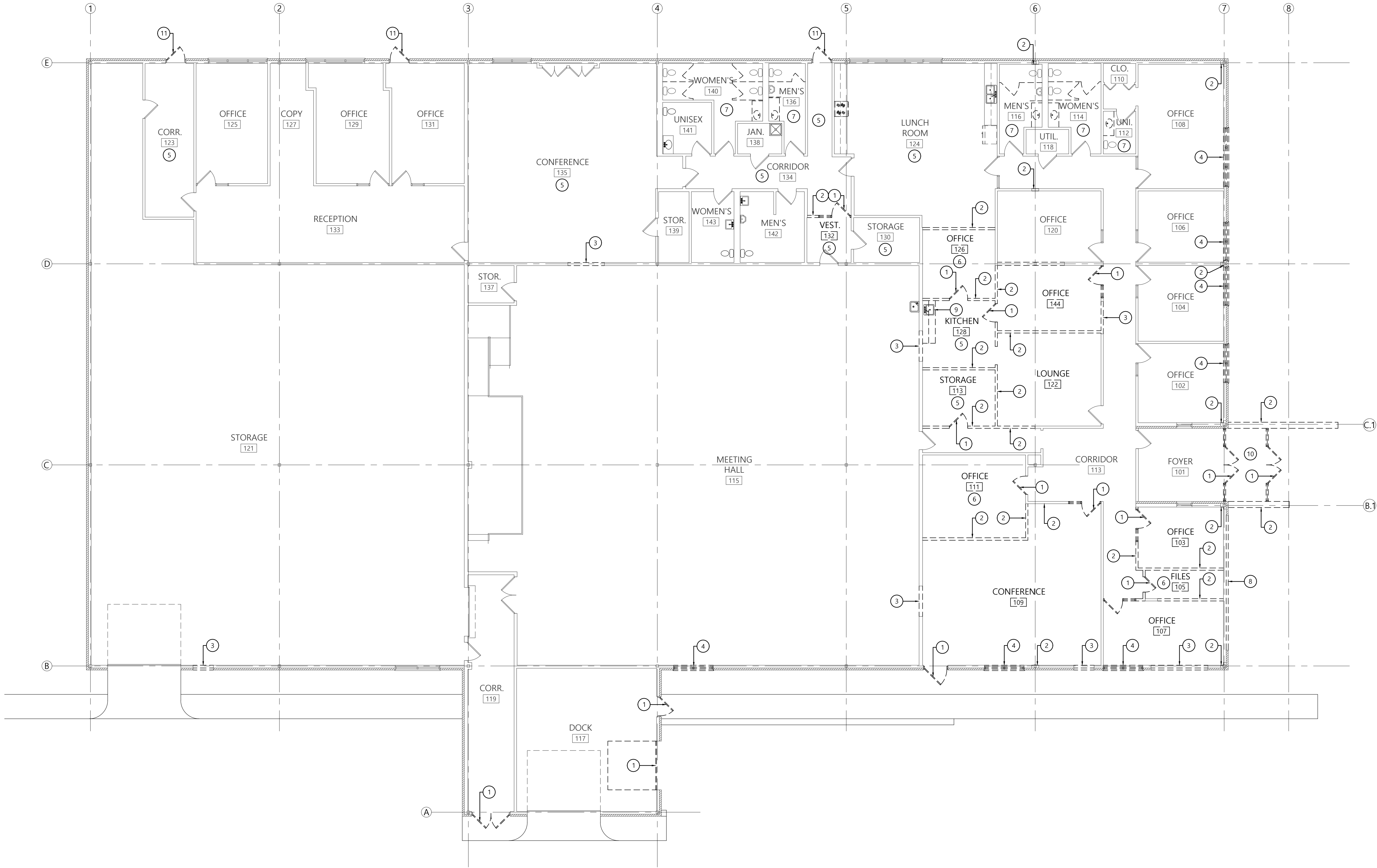


**SECOND FLOOR
LIFE SAFETY PLAN**

SCALE: 1/8"=1'-0" CLIENT: 096
DATE: 06/24/25 PROJECT: 096001
DRAWN: DRH
APPRVD: DRH

A0.8

FILE: 096001A-A0.8-LSP02



PLAN SYMBOLS:

- 1 COLUMN LINE DESIGNATION
- 1 101 INTERIOR ELEVATION SYMBOL
- 1 101 PLAN DETAIL SYMBOL
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING MASONRY CONSTRUCTION TO REMAIN
- 1 PLAN NOTE DESIGNATION

GENERAL DEMOLITION NOTES:

- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- DEMOLITION SHALL BE CLEAN AND COMPLETE. PATCH OR REPAIR ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO MATCH SURROUNDING SIMILAR CONSTRUCTION.
- CONTRACTOR TO PROVIDE ALL TEMPORARY SHORING, BRACING, BARRIERS, PARTITIONS, FENCING, SILT CONTROL MEASURES OR OTHER TEMPORARY FACILITIES AS REQUIRED.
- MAINTAIN EXISTING CONSTRUCTION TO REMAIN IN A SAFE AND WEATHER-TIGHT CONDITION THROUGHOUT CONSTRUCTION.
- MAINTAIN ALL EXISTING UTILITY, MECHANICAL, ELECTRICAL AND PLUMBING SERVICES TO ALL EXISTING AREAS INDICATED TO REMAIN. RE-ROUTE OR RE-WORK EXISTING SERVICES AS REQUIRED.
- ALL ITEMS NOTED TO BE DEMOLISHED SHALL BE DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS AND POLICIES.
- VERIFY WITH OWNER PRIOR TO DISPOSING OF ANY ITEMS NOTED TO BE DEMOLISHED.
- WHERE EXISTING WALL, ROOF OR FLOOR CONSTRUCTION IS INDICATED TO BE DEMOLISHED, DEMOLISH ALL ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES, DEVICES, CONDUIT, WIRING, DUCTWORK OR PIPING LOCATED IN SUCH CONSTRUCTION COMPLETE UNLESS NOTED OTHERWISE.

DEMOLITION KEYED NOTES:

- DEMOLISH EXIST. DOOR, FRAME AND HARDWARE COMPLETE.
- DEMOLISH EXIST. WALL CONSTRUCTION COMPLETE.
- DEMOLISH PORTION OF EXIST. WALL CONSTRUCTION AS REQUIRED TO CREATE ROUGH OPENING FOR NEW DOOR OR WINDOW.
- DEMOLISH EXISTING WINDOW UNIT COMPLETE.
- DEMOLISH EXIST. VCT FLOORING & WALL BASE THROUGHOUT THIS ROOM OR SPACE.
- DEMOLISH EXIST. CARPET FLOORING & WALL BASE THROUGHOUT THIS ROOM OR SPACE.
- BATHROOM DEMOLITION SCOPE:
 - DEMOLISH EXIST. CERAMIC TILE FLOORING & WALL BASE COMPLETE.
 - DEMOLISH EXIST. CERAMIC TILE WAINSCOT COMPLETE.
 - DEMOLISH EXIST. TOILET PARTITIONS & TOILET ACCESSORIES COMPLETE.
 - DEMOLISH EXIST. VANITY SINKS, FAUCETS & FITTINGS.
 - DEMOLISH EXIST. CASEWORK COMPLETE.
- DEMOLISH EXIST. BRICK VENEER IN THIS AREA TO ACCOMMODATE NEW STAIRWELL CONSTRUCTION.
- DEMOLISH EXIST. SINK & CASEWORK COMPLETE.
- DEMOLISH EXIST. CERAMIC TILE FLOOR FINISH COMPLETE IN THIS AREA.
- DEMOLISH EXIST. DOOR SLAB & HARDWARE. EXIST. FRAME TO REMAIN.

1 FIRST FLOOR DEMOLITION PLAN

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

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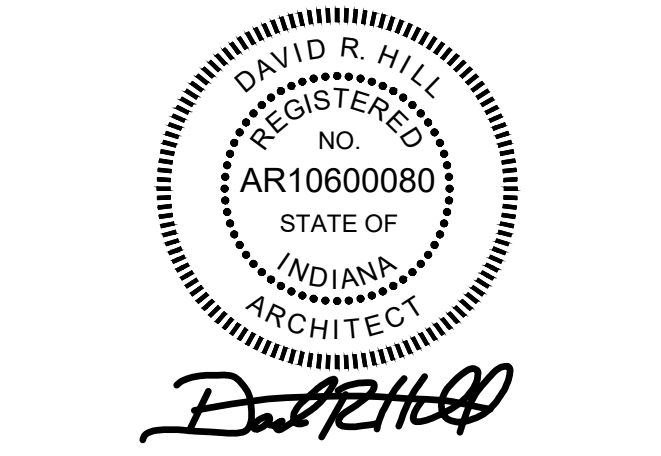
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UNION HALL
RENOVATION - 2025

550 SUPERIOR AVE.,
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MARK	DATE	DESCRIPTION
1	07/30/25	OWNER REVIEW
2	08/13/25	SD APPROVAL
3	08/28/25	COORDINATION
4	10/23/25	FOR PERMIT



FIRST FLOOR
DEMOLITION PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

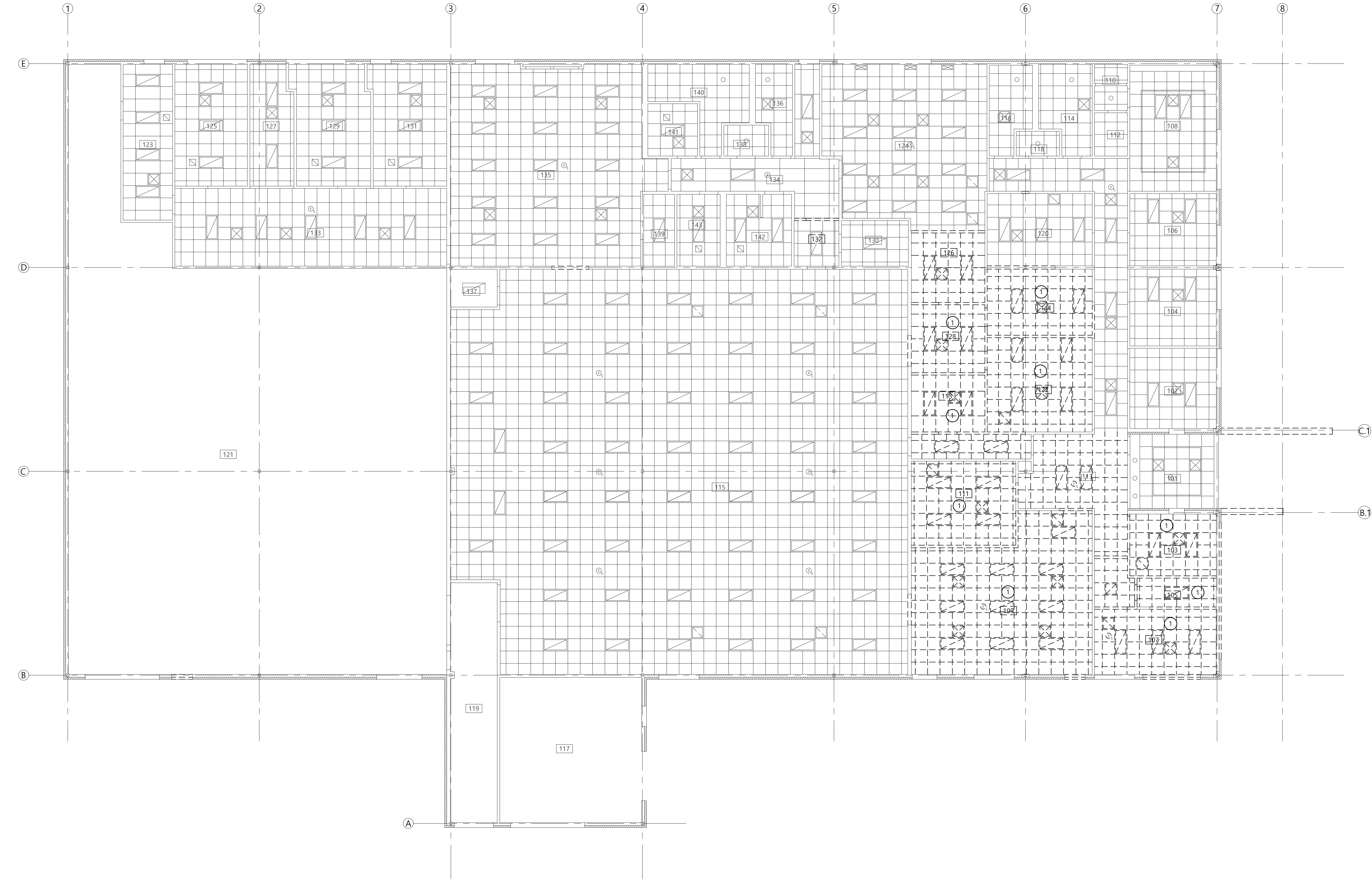
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

AD1.1

FILE: 096001A-AD1.1-XP01



1 PARTIAL FIRST FLOOR CEILING DEMOLITION PLAN

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

CEILING PLAN SYMBOLS:

- ① COLUMN LINE DESIGNATION
- X XXX SECTION CUT SYMBOL
- AXXX INTERIOR ELEVATION SYMBOL
- ① PLAN NOTE DESIGNATION
- 0'-0" 0'-0" F.O.X. ELEVATION HEIGHT DESIGNATION
- EXISTING SAP CEILING TO REMAIN
- EXISTING SAP CEILING TO BE DEMOLISHED
- EXISTING GYP. BD. SOFFIT OR CEILING TO REMAIN

GENERAL DEMO NOTES:

- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- DEMOLITION SHALL BE CLEAN AND COMPLETE. PATCH OR REPAIR ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO MATCH SURROUNDING SIMILAR CONSTRUCTION.
- CONTRACTOR TO PROVIDE ALL TEMPORARY SHORING, BRACING, BARRIERS, PARTITIONS OR OTHER TEMPORARY FACILITIES AS REQUIRED.
- ALL ITEMS NOTED TO BE DEMOLISHED SHALL BE DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS AND POLICIES.
- VERIFY WITH OWNER PRIOR TO DISPOSING OF ANY ITEMS NOTED TO BE DEMOLISHED.
- WHERE ELECTRICAL DEVICES ARE SHOWN TO BE DEMOLISHED, MAINTAIN CONTINUITY OF EXISTING CIRCUITS FOR ANY EXISTING DEVICES TO REMAIN.
- REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR MORE INFORMATION ON TYPES & PLACEMENT OF ELECTRICAL AND MECHANICAL ITEMS.
- PROTECT EXISTING SMOKE DETECTORS AND FIRE ALARM DEVICES DURING CONSTRUCTION.
- WHERE CEILING MOUNTED DEVICES ARE FIXTURES ARE SHOWN TO BE DEMOLISHED IN EXISTING CEILINGS SHOWN TO REMAIN, PROVIDE NEW REPLACEMENT CEILING TILES IN THOSE LOCATIONS TO MATCH EXISTING ADJACENT TILES.

CEILING DEMO KEYED NOTES:

- DEMOLISH SUSPENDED ACOUSTIC CEILING GRID, SUSPENSION SYSTEM, HANGERS AND ACCESSORIES IN THIS ROOM OR SPACE. EXISTING HANGERS MAY BE RE-USED FOR NEW CEILING SYSTEM WHERE POSSIBLE. SALVAGE EXIST. CEILING TILE, LIGHT FIXTURES, DIFFUSERS AND SMOKE DETECTORS FOR RE-USE.

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1	08/13/25	SD APPROVAL
2	08/28/25	COORDINATION
3	10/23/25	FOR PERMIT

DAVID R. HILL
REGISTERED
NO.
AR10600080
STATE OF
INDIANA
ARCHITECT
D. R. Hill

FIRST FLOOR
CEILING
DEMOLITION PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

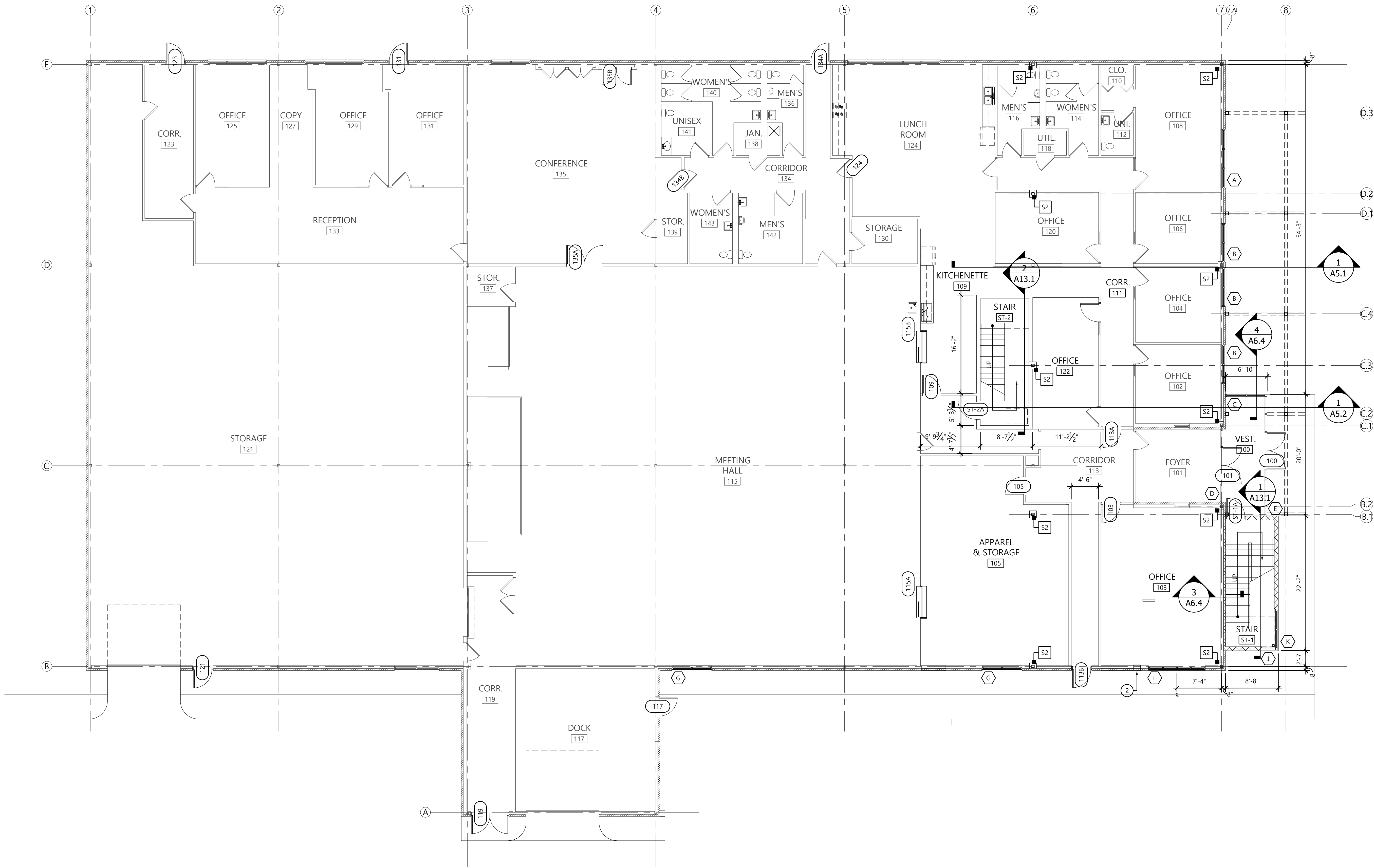
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

AD2.1

FILE: 096001A-AD2.1-RCPX01



PLAN SYMBOLS:

- 1 COLUMN LINE DESIGNATION
- X XXX SECTION CUT SYMBOL
- X XXX PLAN DETAIL SYMBOL
- AXXX INTERIOR ELEVATION SYMBOL
- 1 PLAN NOTE DESIGNATION
- 1 EQUIPMENT SCHEDULE DESIGNATION
- 1 ACCESSORY SCHEDULE DESIGNATION
- 1 WINDOW SCHEDULE DESIGNATION
- 000 DOOR SCHEDULE DESIGNATION
- W3 WALL TYPE DESIGNATION
- 0'-0" T.O.X. ELEVATION HEIGHT DESIGNATION
- EXISTING CONSTRUCTION TO REMAIN
- NEW FRAME WALL
- NEW MASONRY WALL
- 1 HOUR RATED PARTITION
- 2 HOUR RATED PARTITION

GENERAL PLAN NOTES:

- DO NOT SCALE PLANS. ENLARGED PLAN DIMENSIONS TAKE PRECEDENCE OVER SMALLER SCALE PLAN DIMENSIONS.
- ALL EXTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF CONCRETE, MASONRY OR EXTERIOR SHEATHING UNLESS NOTED OTHERWISE.
- ALL INTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF MASONRY, CONCRETE OR FINISHED WALL SURFACE UNLESS NOTED OTHERWISE.
- ALL INTERIOR FRAME WALLS ARE TO BE WALL TYPE B3 UNLESS NOTED OTHERWISE. REFER TO SHEET A10.1 FOR INTERIOR WALL TYPES.
- THE HINGE SIDE FACE OF ALL INTERIOR DOOR FRAMES TO BE SET 4 1/2" FROM THE FINISHED FACE OF THE ADJACENT PERPENDICULAR WALL UNLESS NOTED OTHERWISE.
- PROVIDE SOLID WOOD BLOCKING AT ALL WALL MOUNTED DEVICES AND FIXTURES.
- REFER TO STRUCTURAL & MEP DRAWINGS FOR ADDITIONAL INFORMATION AND ITEMS TO BE COORDINATED WITH GENERAL CONSTRUCTION.
- PATCH, CLEAN, ADJUST & REPAIR ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO PROVIDE A NEW AND COMPLETE INSTALLATION.

KEYED PLAN NOTES:

- ALIGN FINISHED SURFACES.
- THROUGH WALL NIGHT DROP BOX.
- WALL MOUNTED SHIP'S LADDER TO ROOF HATCH.

1 FIRST FLOOR PLAN

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

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MARK	DATE	DESCRIPTION
5	08/28/25	COORDINATION
6	09/11/25	COORDINATION
7	10/23/25	FOR PERMIT



FIRST FLOOR PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

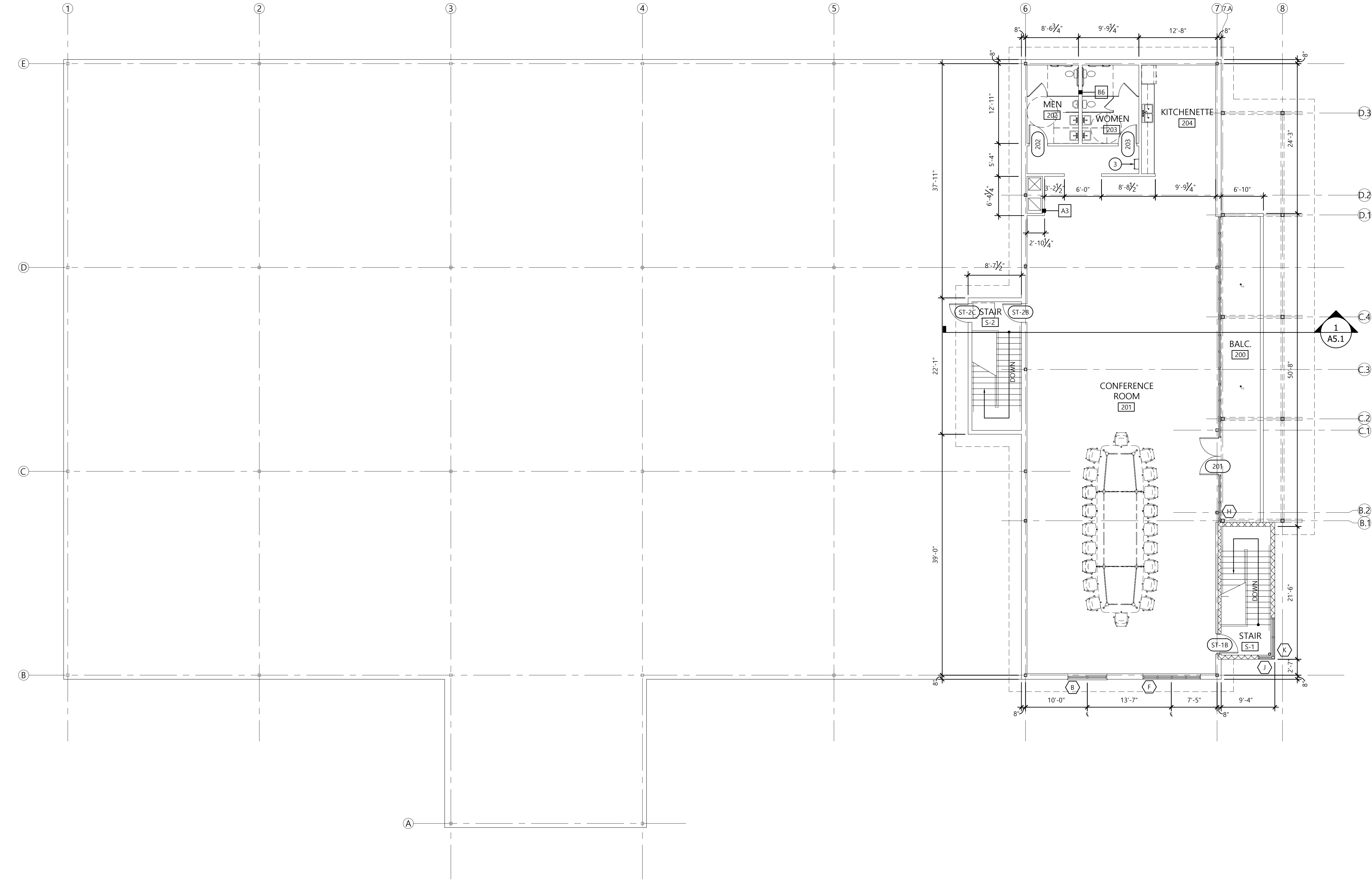
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

A1.1

FILE: 096001A-A1.1-FP01



1 SECOND FLOOR PLAN

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

PLAN SYMBOLS:

- COLUMN LINE DESIGNATION
- SECTION CUT SYMBOL
- PLAN DETAIL SYMBOL
- INTERIOR ELEVATION SYMBOL
- PLAN NOTE DESIGNATION
- EQUIPMENT SCHEDULE DESIGNATION
- ACCESSORY SCHEDULE DESIGNATION
- WINDOW SCHEDULE DESIGNATION
- DOOR SCHEDULE DESIGNATION
- WALL TYPE DESIGNATION
- ELEVATION HEIGHT DESIGNATION
- EXISTING CONSTRUCTION TO REMAIN
- NEW FRAME WALL
- NEW MASONRY WALL
- 1 HOUR RATED PARTITION
- 2 HOUR RATED PARTITION

GENERAL PLAN NOTES:

- DO NOT SCALE PLANS. ENLARGED PLAN DIMENSIONS TAKE PRECEDENCE OVER SMALLER SCALE PLAN DIMENSIONS.
- ALL EXTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF CONCRETE, MASONRY OR EXTERIOR SHEATHING UNLESS NOTED OTHERWISE.
- ALL INTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF MASONRY, CONCRETE OR FINISHED WALL SURFACE UNLESS NOTED OTHERWISE.
- ALL INTERIOR FRAME WALLS ARE TO BE WALL TYPE B3 UNLESS NOTED OTHERWISE. REFER TO SHEET A10.1 FOR INTERIOR WALL TYPES.
- THE HINGE SIDE FACE OF ALL INTERIOR DOOR FRAMES TO BE SET 4 1/2" FROM THE FINISHED FACE OF THE ADJACENT PERPENDICULAR WALL UNLESS NOTED OTHERWISE.
- PROVIDE SOLID WOOD BLOCKING AT ALL WALL MOUNTED DEVICES AND FIXTURES.
- REFER TO STRUCTURAL & MEP DRAWINGS FOR ADDITIONAL INFORMATION AND ITEMS TO BE COORDINATED WITH GENERAL CONSTRUCTION.
- PATCH, CLEAN, ADJUST & REPAIR ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO PROVIDE A NEW AND COMPLETE INSTALLATION.

KEYED PLAN NOTES:

- ALIGN FINISHED SURFACES.
- THROUGH WALL NIGHT DROP BOX.
- WALL MOUNTED SHIP'S LADDER TO ROOF HATCH.

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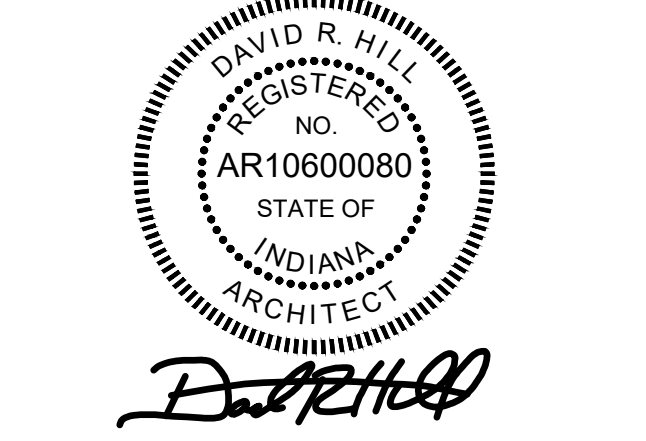
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MARK	DATE	DESCRIPTION
4	08/13/25	SD APPROVAL
5	08/28/25	COORDINATION
6	09/11/25	COORDINATION
7	10/23/25	FOR PERMIT



SECOND FLOOR PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

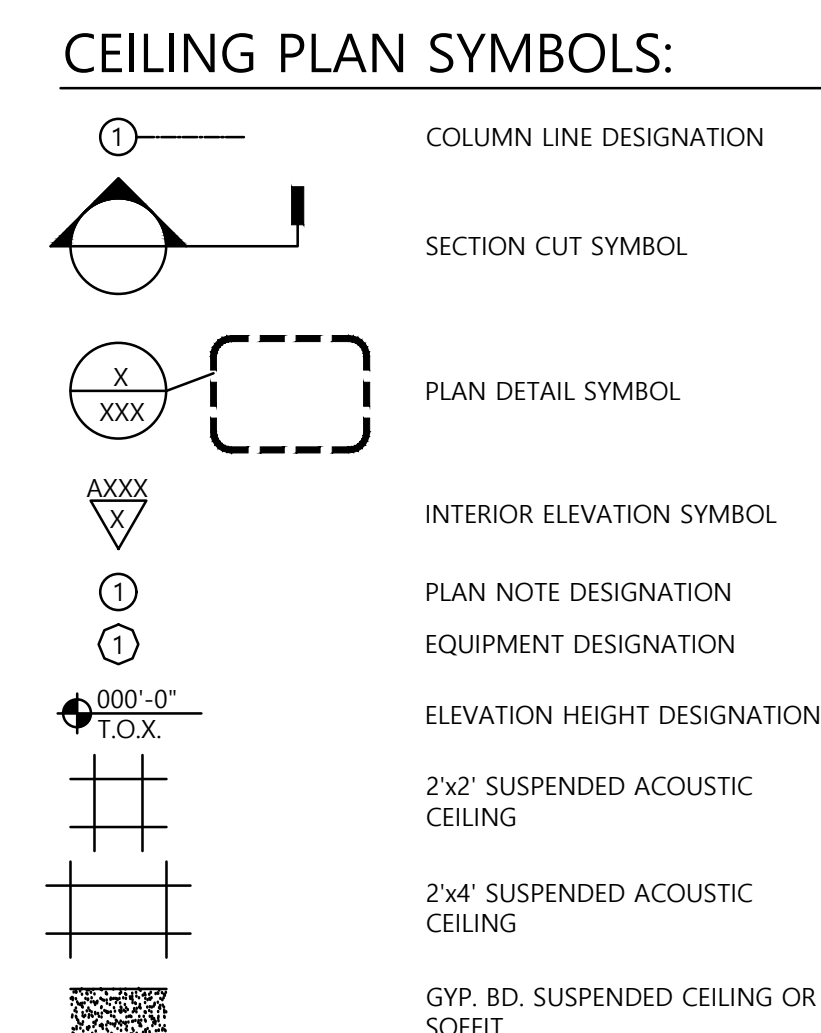
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

A1.2

FILE: 096001A-A1.2-FP02



1. DO NOT SCALE PLANS, ENLARGED PLAN DIMENSIONS TAKE PRECEDENCE OVER SMALLER SCALE PLAN DIMENSIONS.
2. ALL INTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF MASONRY OR FINISHED WALL SURFACE UNLESS NOTED OTHERWISE.
3. CEILING MATE AT CEILING MOUNTED DEVICES, FIXTURES AND EQUIPMENT WITH APPLICABLE MECHANICAL AND ELECTRICAL DRAWINGS.
4. PROVIDE SUSPENDED ACOUSTIC PANEL OR SUSPENDED GYPSUM BOARD CEILINGS IN AREAS INDICATED.
5. ALL OTHER AREAS TO BE EXPOSED TO STRUCTURE.
6. ALL ACOUSTICAL CEILING TILE TO BE ACT-1 UNLESS NOTED OTHERWISE.
7. ACOUSTIC PANEL FINISHED CEILING HEIGHTS TO BE 8'-0" A.F.F. UNLESS NOTED OTHERWISE.

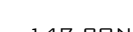
1. PROVIDE NEW CEILING GRID IN THIS ROOM OR SPACE. REINSTALL SALVAGED CEILING TILE, LIGHT FIXTURES & DIFFUSERS. SEE MECHANICAL & ELECTRICAL DRAWINGS FOR MORE INFORMATION. TYP

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2	08/28/25	COORDINATION
3	10/23/25	FOR PERMIT



FIRST FLOOR
CEILING PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

DATE: 06/24/25 PROJECT: 096001

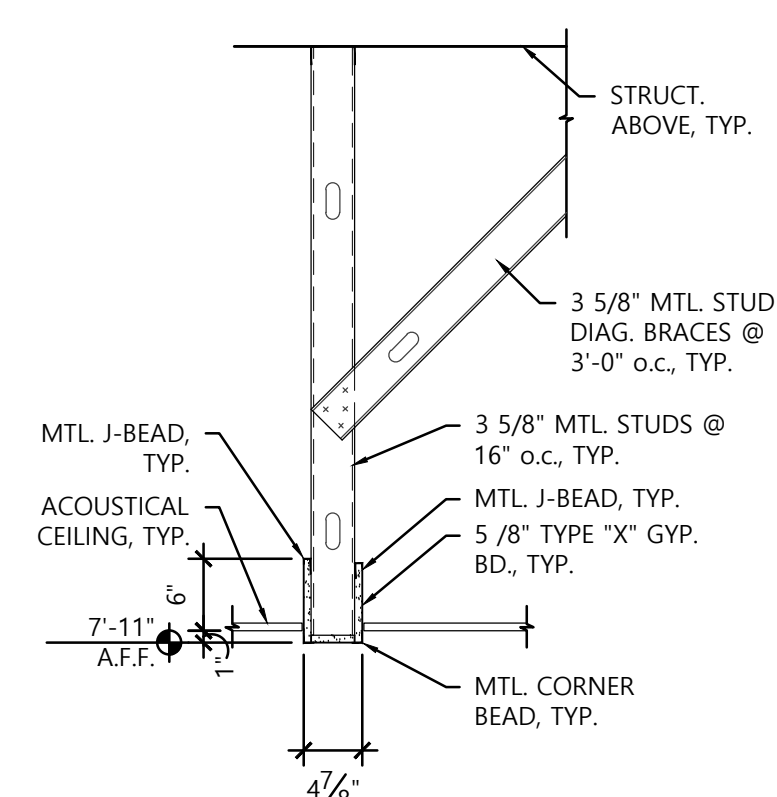
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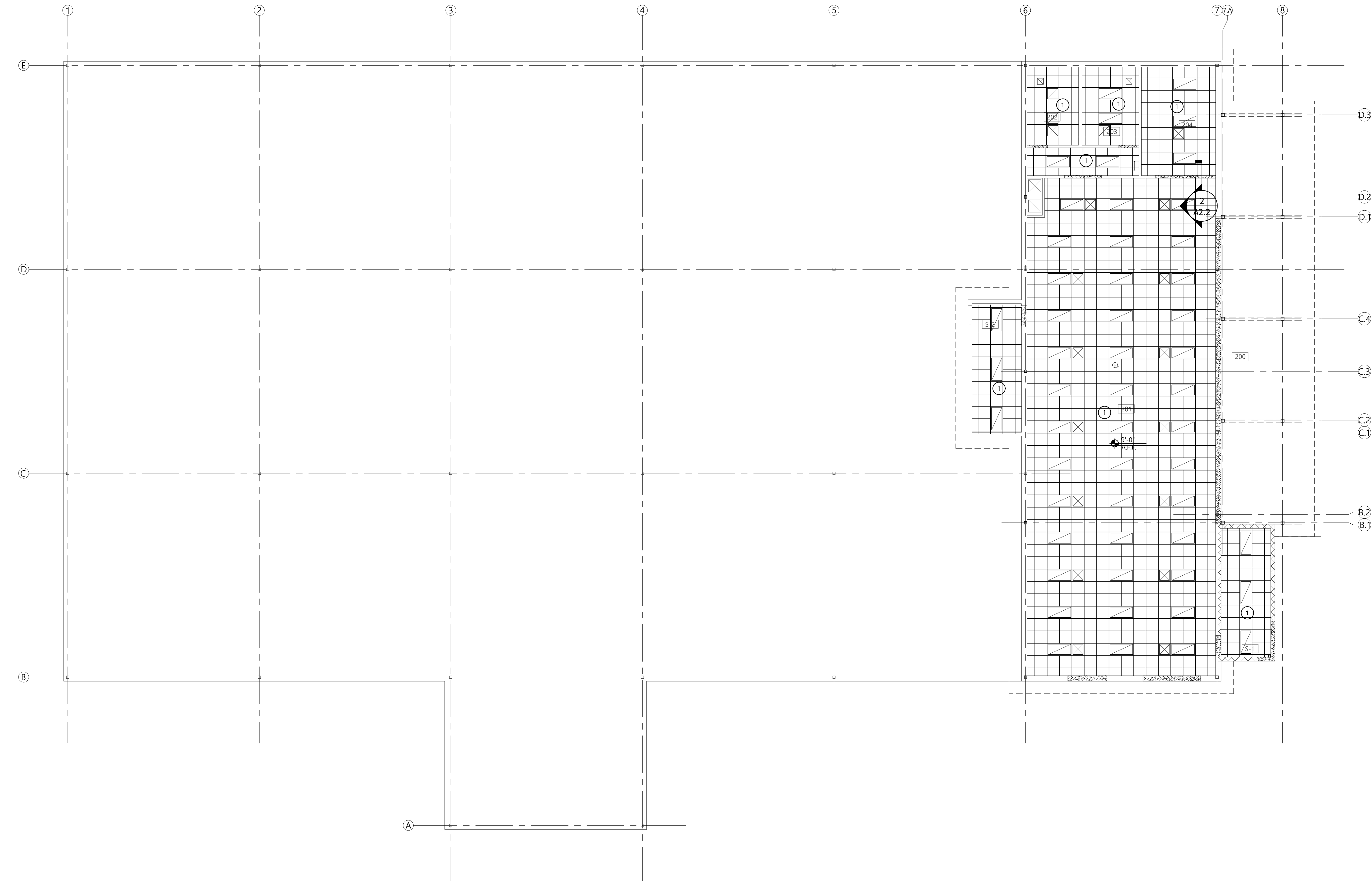
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Scale: 1/16"=1'-0"

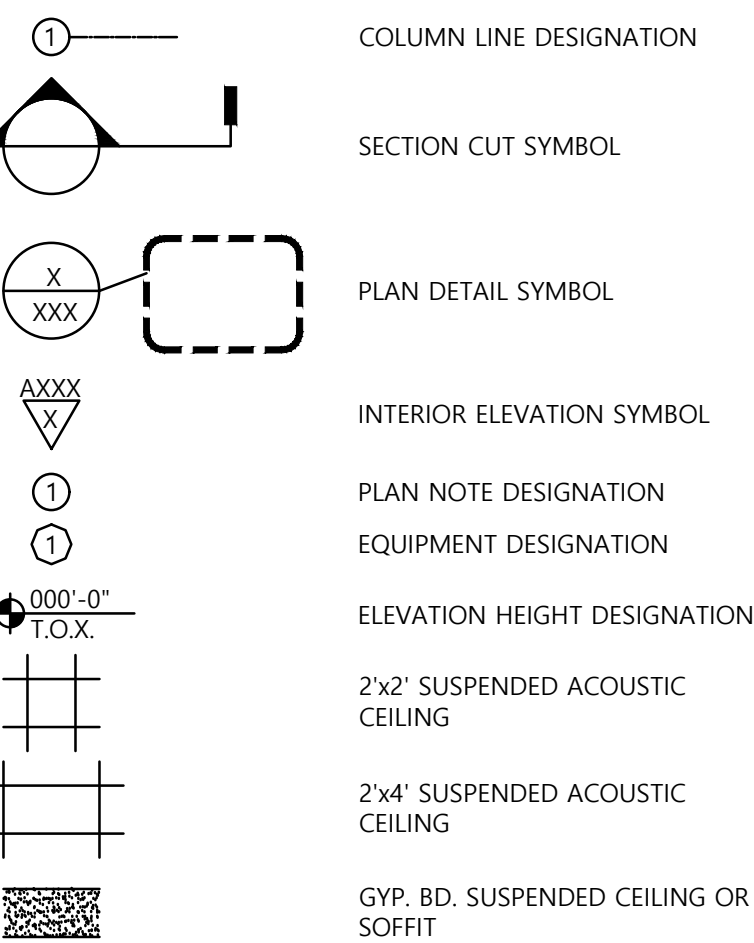


2 BULKHEAD DETAIL

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



CEILING PLAN SYMBOLS:



GENERAL CEILING NOTES:

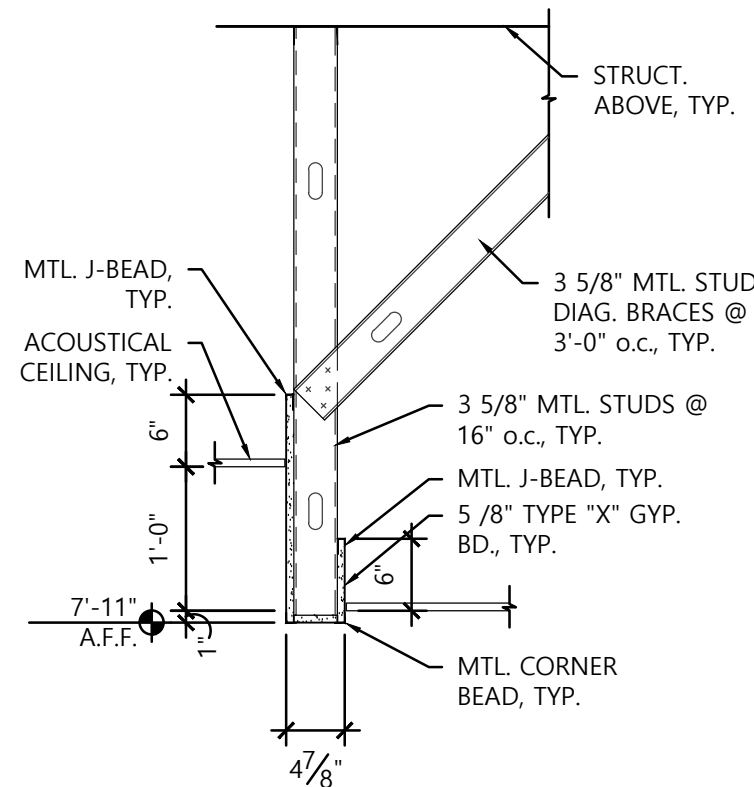
1. DO NOT SCALE PLANS. ENLARGED PLAN DIMENSIONS TAKE PRECEDENCE OVER SMALLER SCALE PLAN DIMENSIONS.
2. ALL INTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF MASONRY OR FINISHED WALL SURFACE UNLESS NOTED OTHERWISE.
3. COORDINATE ALL CEILING MOUNTED DEVICES, FIXTURES AND EQUIPMENT WITH APPLICABLE MECHANICAL AND ELECTRICAL DRAWINGS.
4. PROVIDE SUSPENDED ACOUSTIC PANEL OR SUSPENDED GYPSUM BOARD CEILINGS IN AREAS INDICATED.
5. ALL OTHER AREAS TO BE EXPOSED TO STRUCTURE.
6. ALL ACOUSTICAL CEILING TILE TO BE ACT-1 UNLESS NOTED OTHERWISE.
7. ACOUSTIC PANEL FINISHED CEILING HEIGHTS TO BE 8'-0" A.F.F. UNLESS NOTED OTHERWISE.

KEYED CEILING PLAN NOTES:

1. PROVIDE NEW CEILING GRID IN THIS ROOM OR SPACE. REINSTALL SALVAGED CEILING TILE, LIGHT FIXTURES & DIFFUSERS. SEE MECHANICAL & ELECTRICAL DRAWINGS FOR MORE INFORMATION, TYP.

1 SECOND FLOOR CEILING PLAN

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



2 BULKHEAD DETAIL

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

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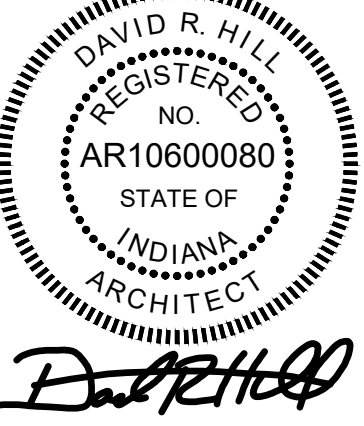
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3	10/23/25	FOR PERMIT



SECOND FLOOR
CEILING PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

DATE: 06/24/25 PROJECT: 096001

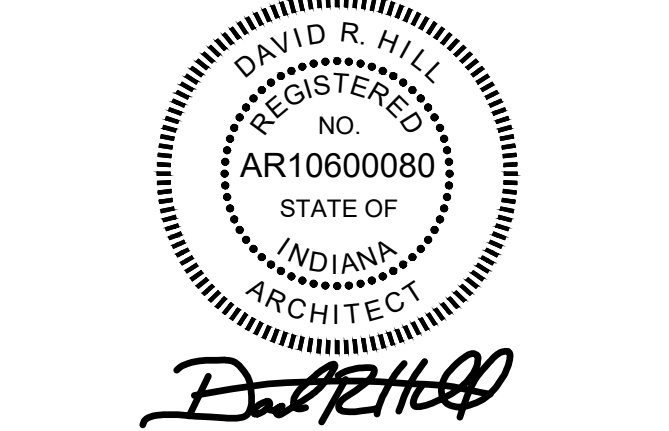
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APPRVD: DRH

A2.2

FILE: 096001A-A2.2-RCP02

MARK	DATE	DESCRIPTION
1	09/05/25	COORDINATION
2	09/11/25	COORDINATION
3	10/23/25	FOR PERMIT



ROOF PLAN

SCALE: 1/8"=1'-0" CLIENT: 096

DATE: 06/24/25 PROJECT: 096001

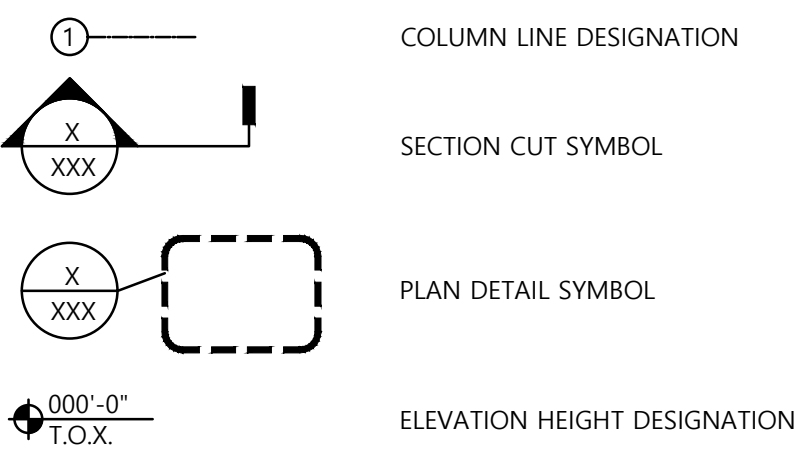
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APPRVD: DRH

A3.1

FILE: 096001A-A3.1-RFP

PLAN SYMBOLS:

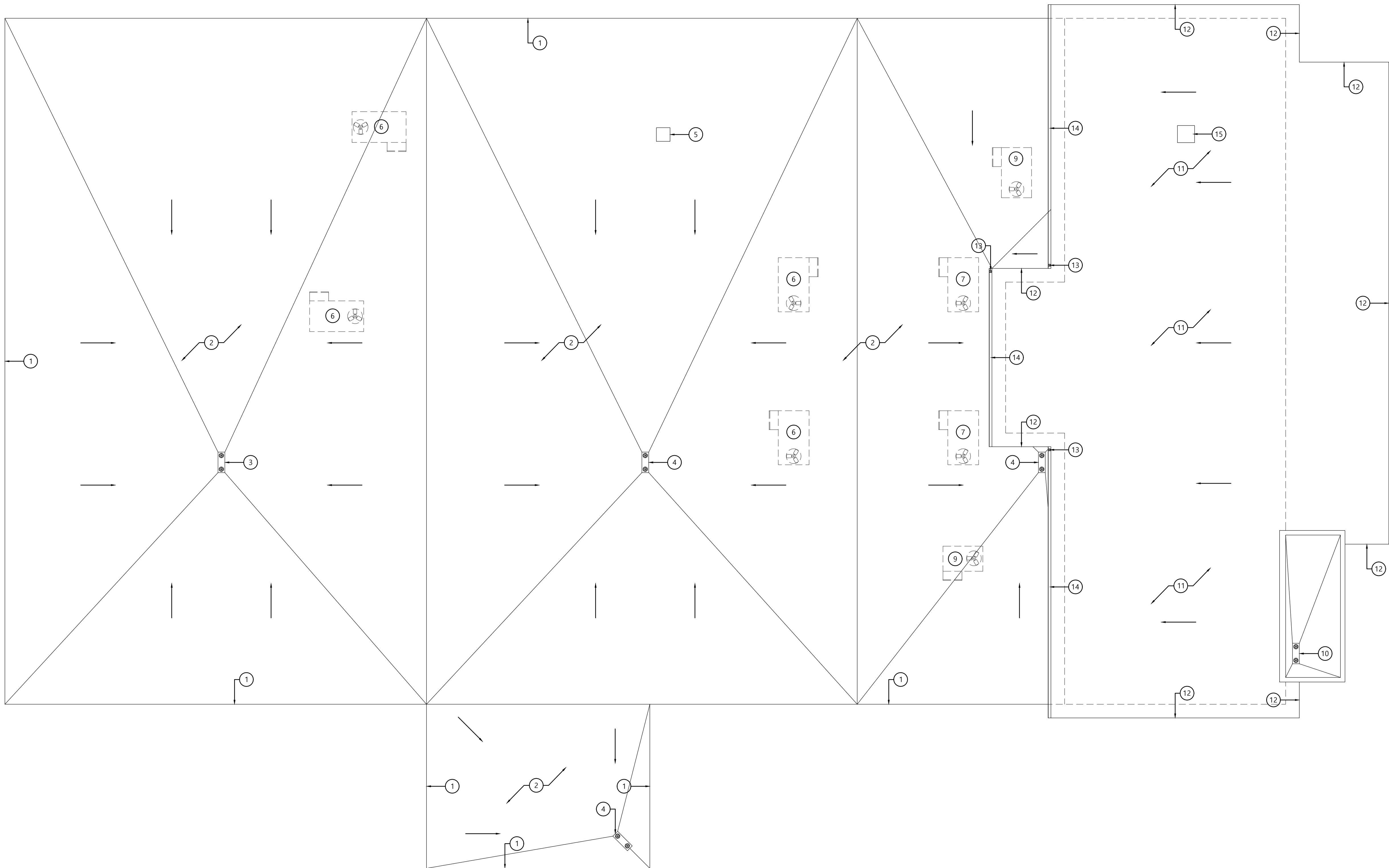


GENERAL ROOF PLAN NOTES:

- DO NOT SCALE PLANS. ENLARGED PLAN DIMENSIONS TAKE PRECEDENCE OVER SMALLER SCALE PLAN DIMENSIONS.
- ALL EXTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF CONCRETE, MASONRY OR EXTERIOR SHEATHING UNLESS NOTED OTHERWISE.
- PROVIDE NEW POLY-ISO ROOF INSULATION THROUGHOUT FLAT ROOF AS REQUIRED TO MEET MINIMUM THICKNESS AND SLOPE REQUIREMENTS.
- THE INSTALLATION OF NEW ROOFING, FLASHING, ACCESSORIES AND OTHER NEW WORK SHALL BE PERFORMED IN A MANNER CONSISTENT WITH ROOF MEMBRANE MANUFACTURER'S RECOMMENDATIONS AND SO AS TO PROVIDE A FULLY WARRANTED ROOF SYSTEM.
- REFER TO MECHANICAL DRAWINGS FOR CURB DETAILS AT NEW MECHANICAL PENETRATIONS & EQUIPMENT.
- PROVIDE NEW WHITE EPDM ROOF MEMBRANE, SUBSTRATES, FLASHING AND ACCESSORIES THROUGHOUT FLAT ROOF AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION. FLASH TO NEW ROOF PENETRATIONS & CURBS AS REQUIRED.
- NOT ALL NEW ROOF PENETRATIONS MAY BE SHOWN ON THIS PLAN. REFER TO MEP DRAWINGS FOR FULL EXTENT OF NEW ROOF PENETRATIONS.
- NOTE: VERIFY FINAL LOCATION, SIZE AND ROOF CURB SIZES FOR ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

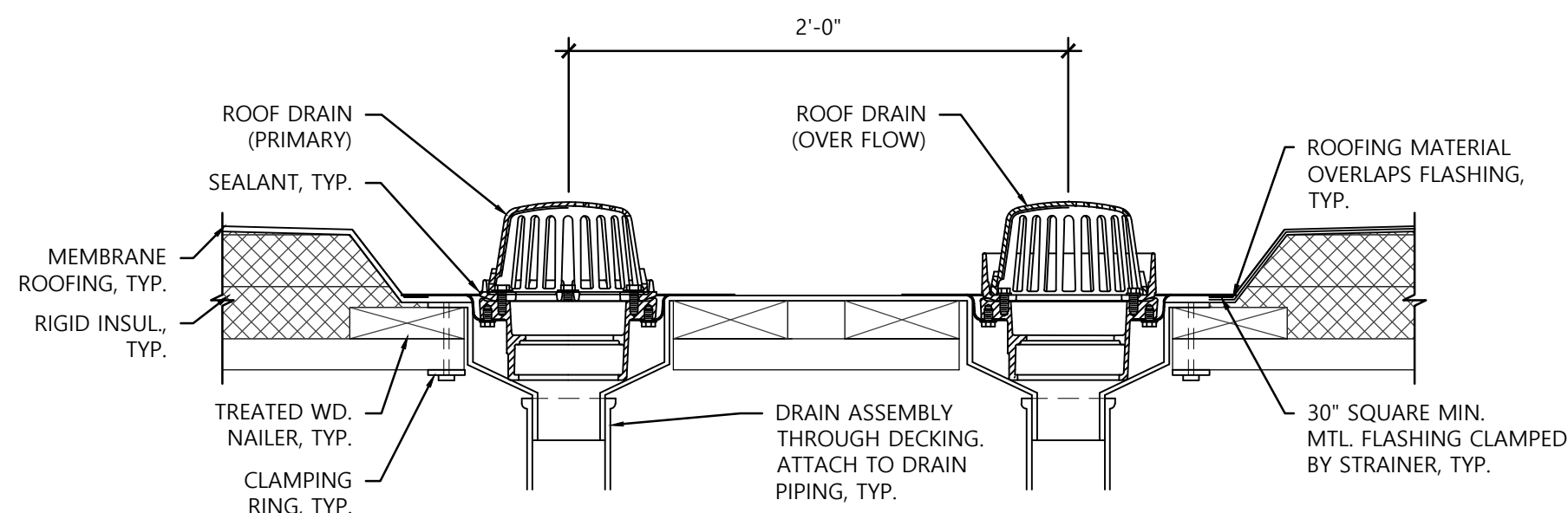
KEYED ROOF PLAN NOTES:

- NEW MTL. GRAVEL STOP W/ KYNAR FINISH. SEE DETAIL 5/A3.1, TYP.
- NEW 60 mil WHITE E.P.D.M. ROOF MEMBRANE THROUGHOUT THIS AREA. TO INCLUDE NEW FLASHING & ROOF ACCESSORIES AS REQUIRED. TYP. EXIST. ROOF INSULATION MAY BE REUSED.
- EXIST. ROOF DRAIN ASSEMBLY TO REMAIN. TYP.
- PROVIDE NEW ROOF ROOF DRAIN ASSEMBLY & CONNECT TO EXIST. DRAIN PIPING. SEE DETAIL 2/A3.1, TYP.
- EXIST. ROOF SCUTTLE TO REMAIN.
- EXIST. MECHANICAL UNIT, CURB & CRICKET TO REMAIN. TYP.
- EXIST. MECHANICAL UNIT RELOCATED TO THIS LOCATION. PROVIDE NEW ROOF CURB & CRICKET, TYP.
- PLUMBING VENT, SEE DETAIL 4/A3.1 AND PLUMBING DRAWINGS FOR MORE INFORMATION. TYP.
- NEW ROOFTOP MECHANICAL UNIT ON 12' TALL CURB. SEE DETAIL 3/A3.1 AND MECHANICAL DRAWINGS FOR DETAILS. TYP.
- NEW ROOF DRAIN ASSEMBLY & PIPING. TYP. PROVIDE OVERFLOW DRAIN SPOUT IN SIDE WALL. SEE EXTERIOR ELEVATIONS FOR MORE INFORMATION.
- NEW WHITE 60 mil E.P.D.M. ROOF MEMBRANE. SEE EXTERIOR WALL SECTIONS FOR MORE DETAILS. TYP.
- NEW MTL. GRAVEL STOP W/ KYNAR FINISH. SEE EXTERIOR WALL SECTIONS FOR MORE DETAILS. TYP.
- 5"ø ALUM. DOWNSPOUT, TYP.
- 6" ALUM. B-STYLE GUTTER, TYP.
- 30"x30" ACCESS HATCH.



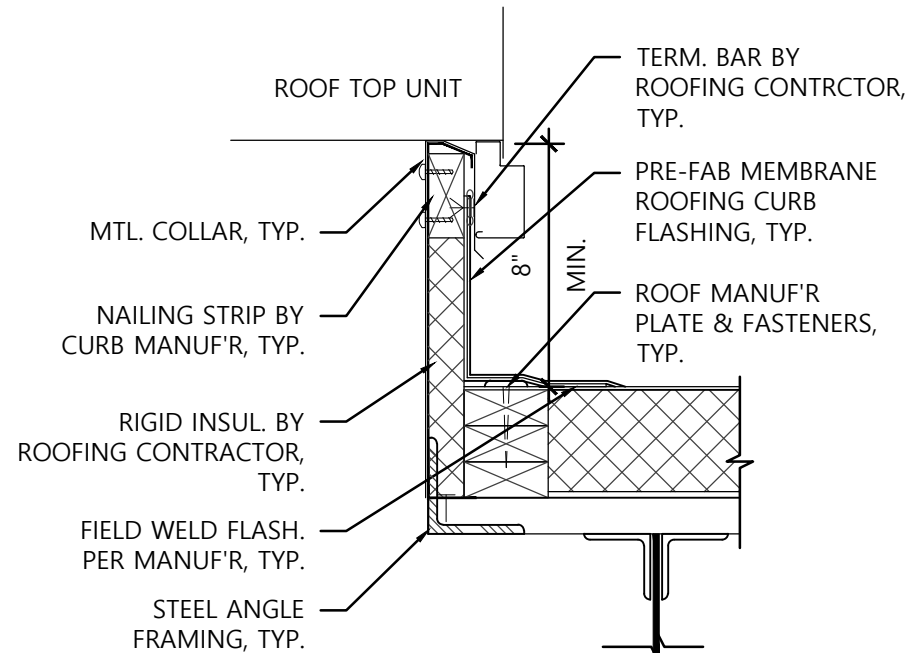
1 ROOF PLAN

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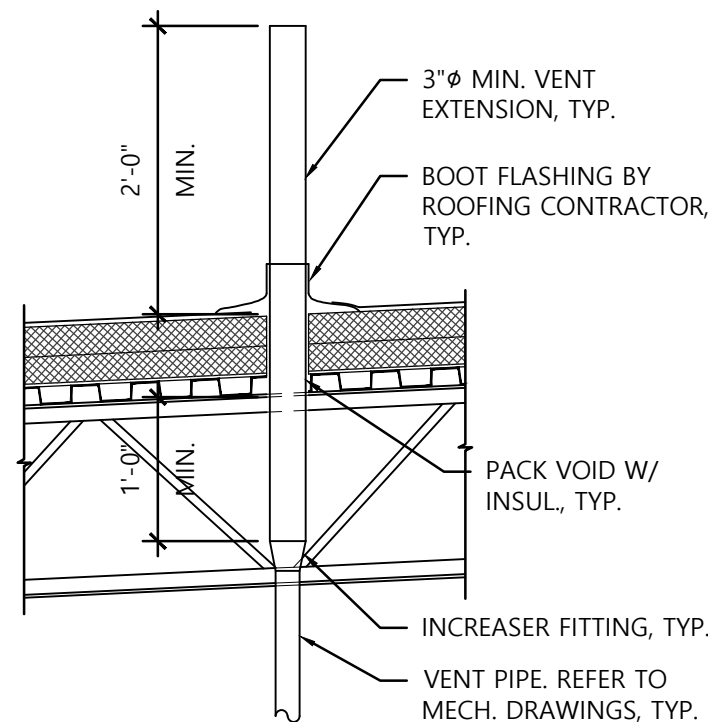
2 ROOF DRAIN ASSEMBLY DETAIL

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



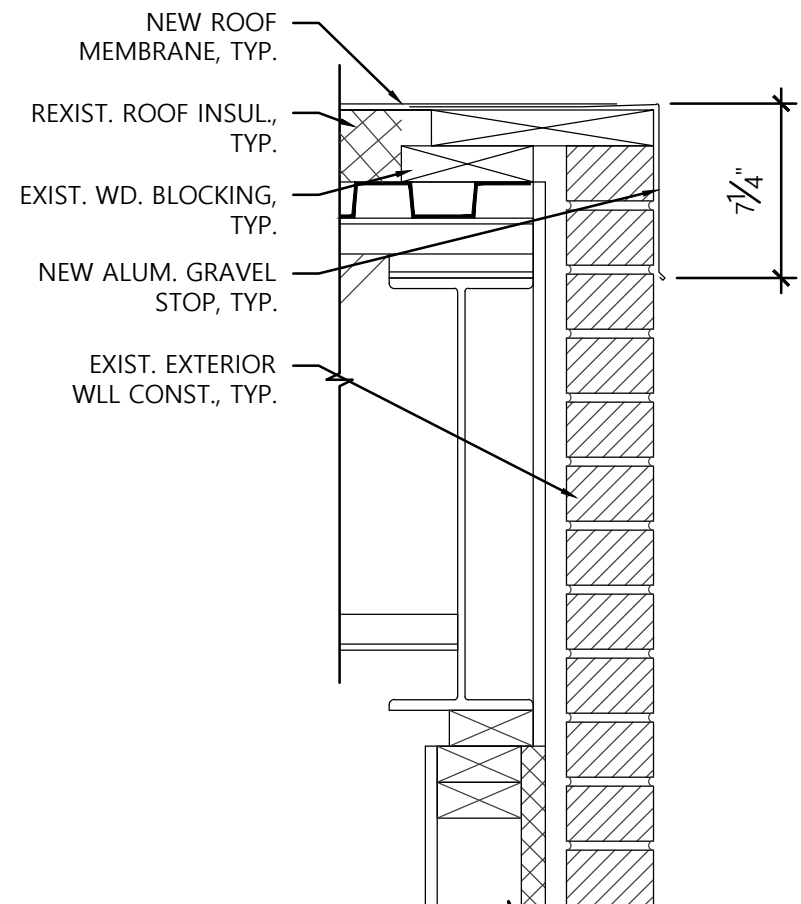
3 ROOF CURB DETAIL

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



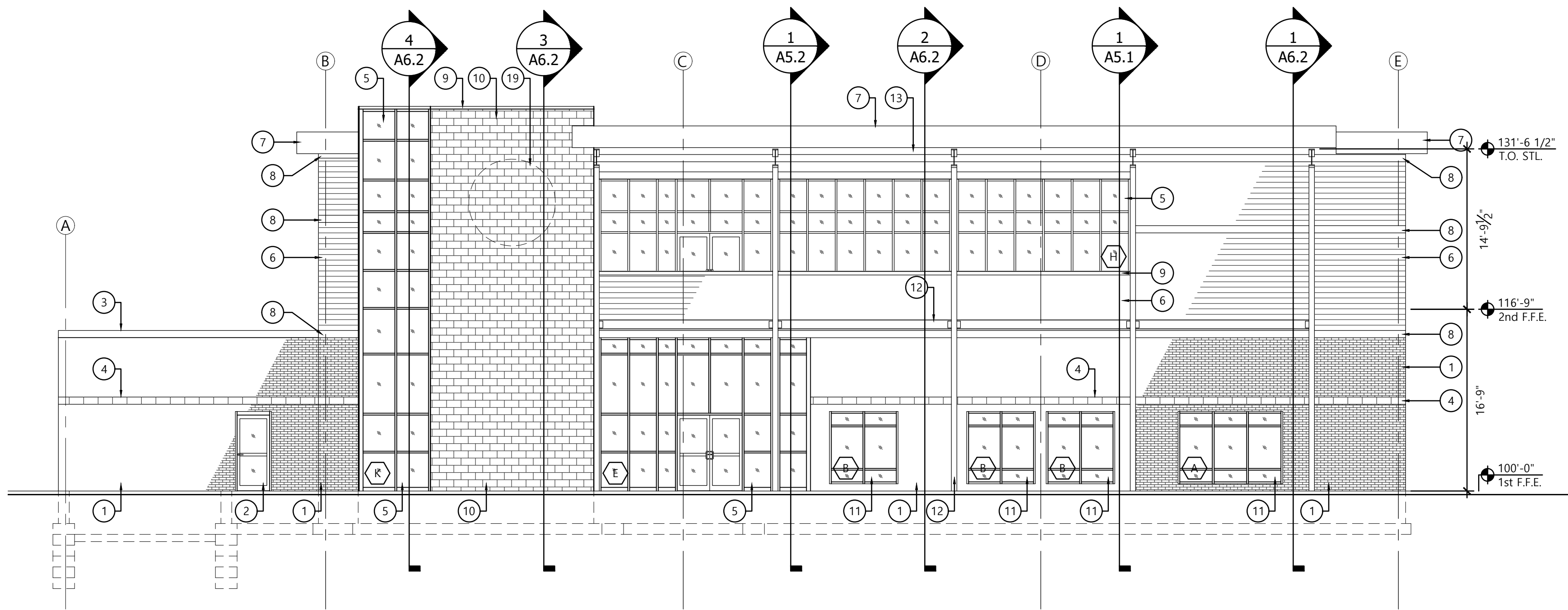
4 PLUMBING VENT DETAIL

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



5 GRAVEL STOP DETAIL

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



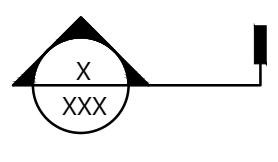
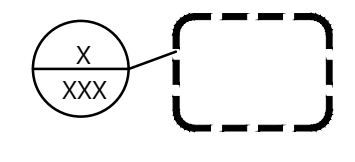
1 NORTH ELEVATION

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

EXTERIOR FINISH SCHEDULE						
ITEM:	TAG:	MANUF- COMPANY	DESCRIPTION / SIZE:	FINISH / COLOR:	PREFINISHED	REMARKS:
CMU BLOCK	CMU-1	ELGIN BUTLER	STRUCTURAL GLAZED TILE (3'-5/8" x 7'-5/8" x 15'-5/8")	#200 "CLASSIC BROWN"		
CMU BLOCK	CMU-2	YORK BUILDING PRODUCTS	RUSTIC FACE (SHOT BLASTED), LIGHTWEIGHT (7'-5/8" x 7'-5/8" x 15'-5/8")	"SAHARA"		
COMPOSITE WOOD SIDING	WS-1	SIERRA F.P.	SF8006060144 RESYSTA SIDING (5/8" x 6" x 12" SIDING)	"DARK BURMA"	Y	W/ "H" CHANNEL AT BUTT JOINTS
ACM PANEL	ACM-1	ALPOLIC	ALPOLIC HD ACM PANEL	MED. BRONZE ANODIZED	Y	
GRAVEL STOP			TWO PIECE ALUM. W/ COLOR ANODIZED FINISH COLORED TO MATCH STONE OR BLOCK	MED. BRONZE ANODIZED	Y	
MORTAR						
COPING	CP-1	FIRESTONE	ALUM. W/ COLOR ANODIZED FINISH	MED. BRONZE ANODIZED	Y	
SOFFIT PANEL	SFP-1	PAC-CLAD	UNVENTED ALUM. W/ COLOR ANODIZED FINISH	"SANDSTONE"	Y	
ROOFING		FIRESTONE	60 mil E.P.D.M.	"WHITE"	Y	
GUTTER			5"ø ALUM. W/ COLOR ANODIZED FINISH	MED. BRONZE ANODIZED	Y	
DOWNSPOUTS			6" B-STYLE ALUM. W/ COLOR ANODIZED FINISH	MED. BRONZE ANODIZED	Y	

NOTES:
1. PAINT EXTERIOR EXPOSED STEEL LINTELS.
2. SEE EXTERIOR ELEVATIONS & WALL SECTIONS FOR FINISH LOCATIONS AND MORE INFORMATION.
3. ITEMS IN QUOTATION MARKS INDICATE MANUFACTURER'S STYLE OR COLOR NAME.

ELEVATION SYMBOLS:

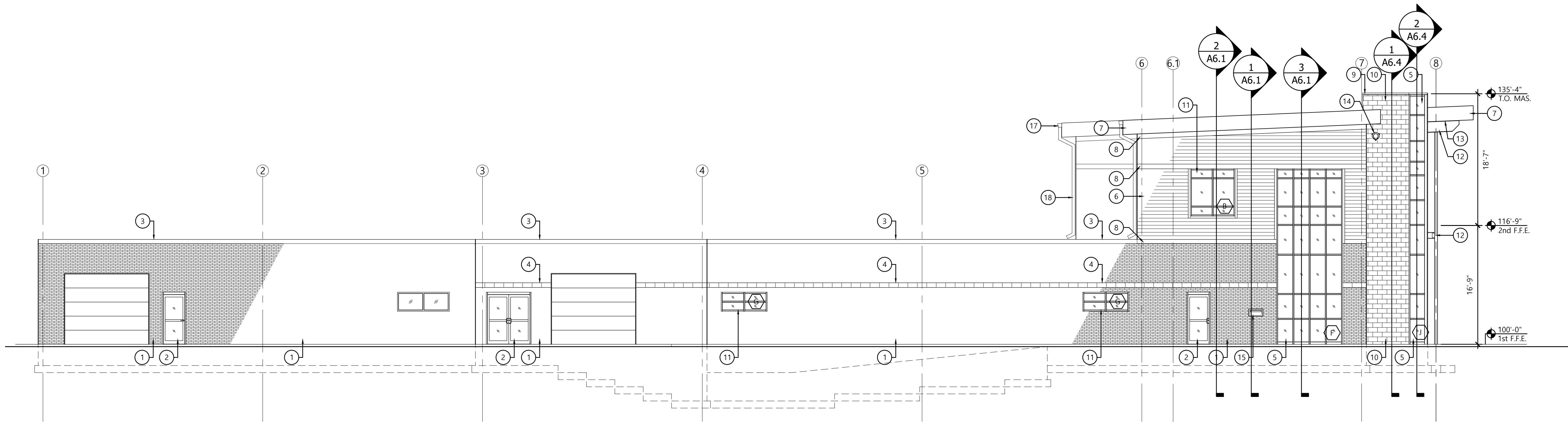
- ① ——— COLUMN LINE DESIGNATION
-  SECTION CUT SYMBOL
-  PLAN DETAIL SYMBOL
- ① ——— PLAN NOTE DESIGNATION
- ① WINDOW SCHEDULE DESIGNATION
- 000'-0" T.O.X. ELEVATION HEIGHT DESIGNATION

GENERAL ELEVATION NOTES:

- DO NOT SCALE PLANS. ENLARGED PLAN DIMENSIONS TAKE PRECEDENCE OVER SMALLER SCALE PLAN DIMENSIONS.
- ALL EXTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF CONCRETE, EXTERIOR SHEATHING OR FRAMING UNLESS NOTED OTHERWISE.
- ALL FLOOR LEVEL DIMENSIONS ARE TAKEN FROM THE FACE OF SUB-FLOORING UNLESS NOTED OTHERWISE.
- ALL HEAD HEIGHTS ARE TAKEN FROM THE ADJACENT FLOOR LEVEL UNLESS NOTED OTHERWISE.
- REFER TO TYPICAL EXTERIOR WALL SECTIONS AND FRAMING SECTIONS FOR ADDITIONAL DETAIL.
- ALL BEDROOM WINDOWS SHALL MEET MINIMUM RESCUE OPENING REQUIREMENTS.
- ALL FIRST FLOOR WINDOWS TO HAVE A 7'-0" HEAD HEIGHT UNLESS NOTED OTHERWISE.
- ALL SECOND FLOOR OR CLERESTORY WINDOWS TO HAVE A 6'-8" HEAD HEIGHT UNLESS NOTED OTHERWISE.
- REFER TO DOOR & WINDOW SCHEDULES FOR DOOR & WINDOW TYPES AND SIZES.

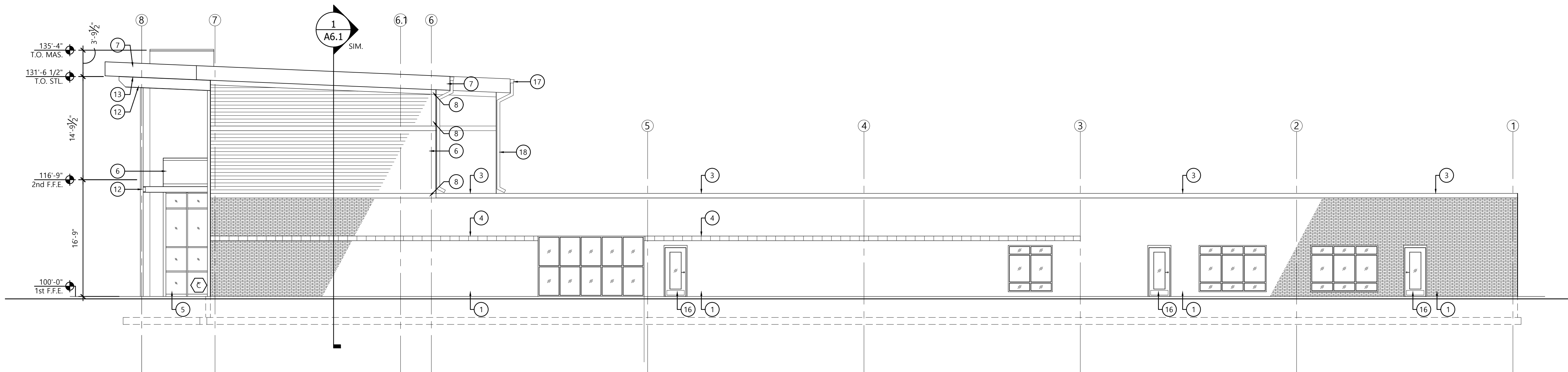
ELEVATION KEYED NOTES:

- EXIST. FACE BRICK VENER TO REMAIN, TYP.
- NEW EXTERIOR ALUM. ENTRY DOOR & FRAME. SEE DOOR SCHEDULE FOR MORE INFORMATION.
- NEW ALUM. GRAVEL STOP W/ KYMAR FINISH, TYP.
- DEMOLISH EXIST. RED GLAZED TILE & BACKER BLOCK. INSTALL NEW 4" NOM. GLAZED CMU (CMU-1), TYP.
- NEW ALUM. STOREFRONT SYSTEM. SEE WINDOW SCHEDULE FOR MORE INFORMATION.
- NEW COMPOSITE WOOD SIDING (WS-1), TYP.
- NEW ALUM. ACM FASCIA PANEL (ACM-1), TYP.
- NEW LP SMARTSIDE TRIM BOARD. SEE EXTERIOR WALL SECTIONS FOR MORE INFORMATION, TYP.
- CONT. METAL COPING WITH KYMAR FINISH (CP-1), TYP.
- NEW 8" NOM. CMU MASONRY (CMU-2), TYP.
- NEW ALUM. WINDOW UNIT. SEE WINDOW SCHEDULE FOR MORE INFORMATION, TYP.
- NEW STRUCTURAL STEEL BEAM OR COLUMN. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION, TYP.
- NEW ALUM. UNVENTED SOFFIT PANEL, TYP.
- NEW OVERFLOW ROOF DRAIN SPOUT.
- NEW THROUGH WALL NIGHT DROP BOX.
- NEW H.M. EXTERIOR DOOR & FRAME. SEE DOOR SCHEDULE FOR MORE DETAILS, TYP.
- 6" ALUM. B-STYLE GUTTER, TYP.
- 5"ø ALUM. DOWNSPOUT, TYP.
- NEW ILLUMINATED SIGNAGE BY VENDOR. COORDINATE WITH OWNER FOR SIZE & LOCATION.



2 EAST ELEVATION

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



3 WEST ELEVATION

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

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mcm@mcmgrp-in.com

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LABORER'S
INTERNATIONAL
UNION OF NORTH
AMERICA LOCAL #41

UNION HALL
RENOVATION - 2025

550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
2	08/13/25	SD APPROVAL
3	08/28/25	COORDINATION
4	09/11/25	COORDINATION
5	10/23/25	FOR PERMIT



EXTERIOR ELEVATIONS

SCALE: 1/8"=1'-0" CLIENT: 096

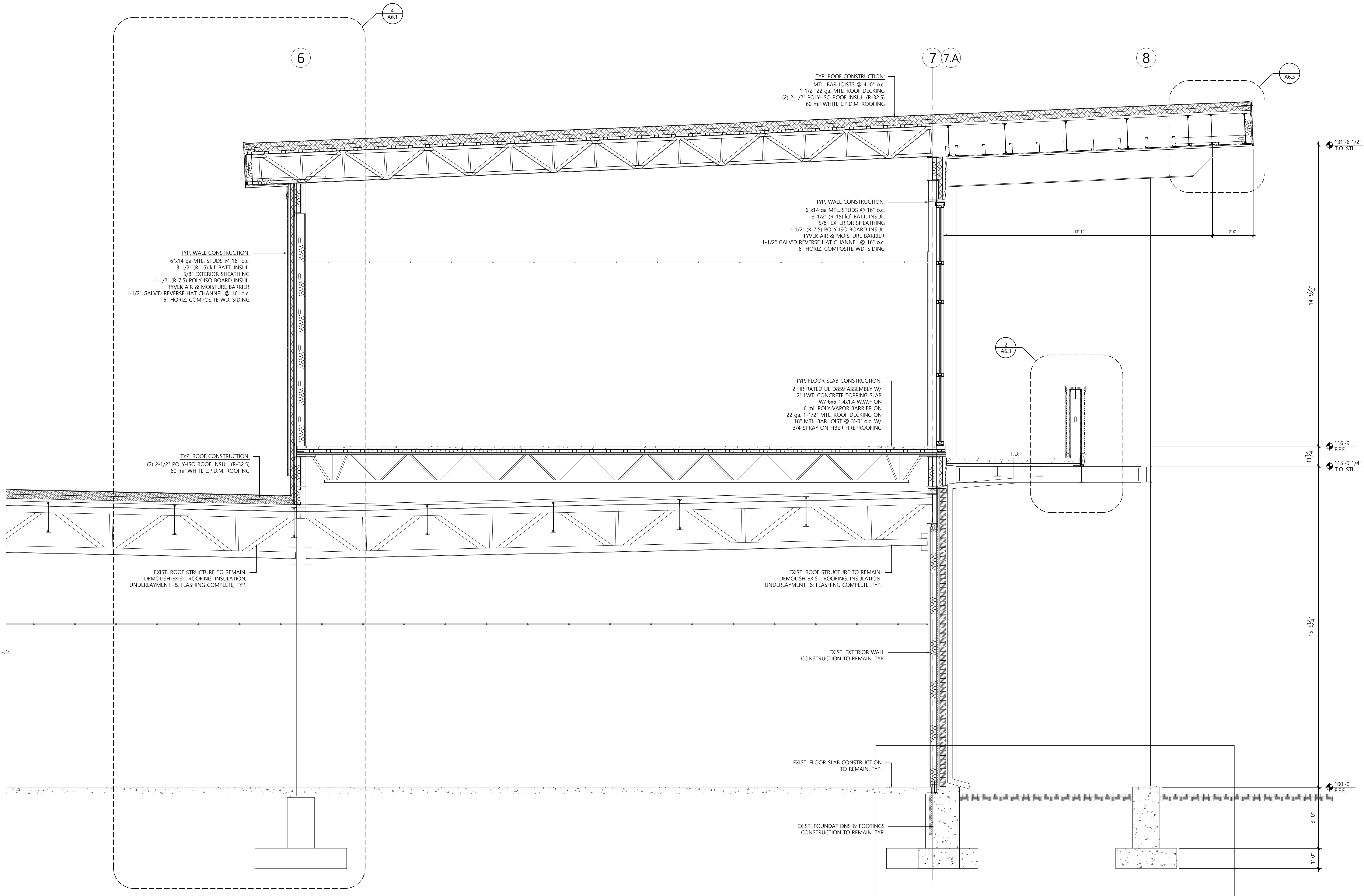
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

A4.1

FILE: 096001A-A4.1-XElevs



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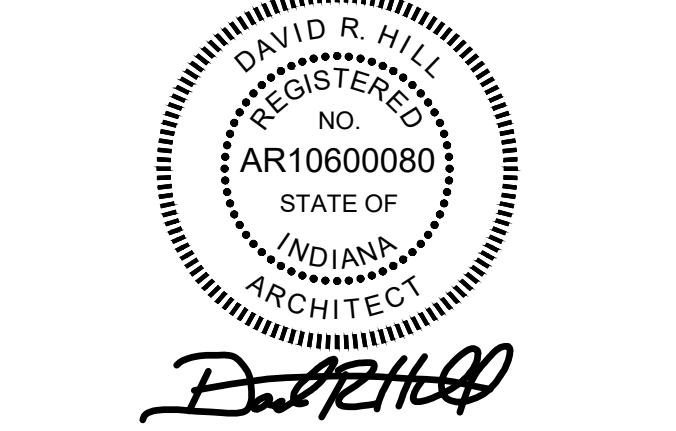
Scale: 1/2"=1'-0"

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AMERICA LOCAL #41

UNION HALL
RENOVATION - 2025

550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
1	08/14/25	PEER REVIEW
2	08/28/25	COORDINATION
3	09/11/25	COORDINATION
4	10/23/25	FOR PERMIT



PARTIAL
BUILDING SECTION

SCALE: 1/2"=1'-0" CLIENT: 096

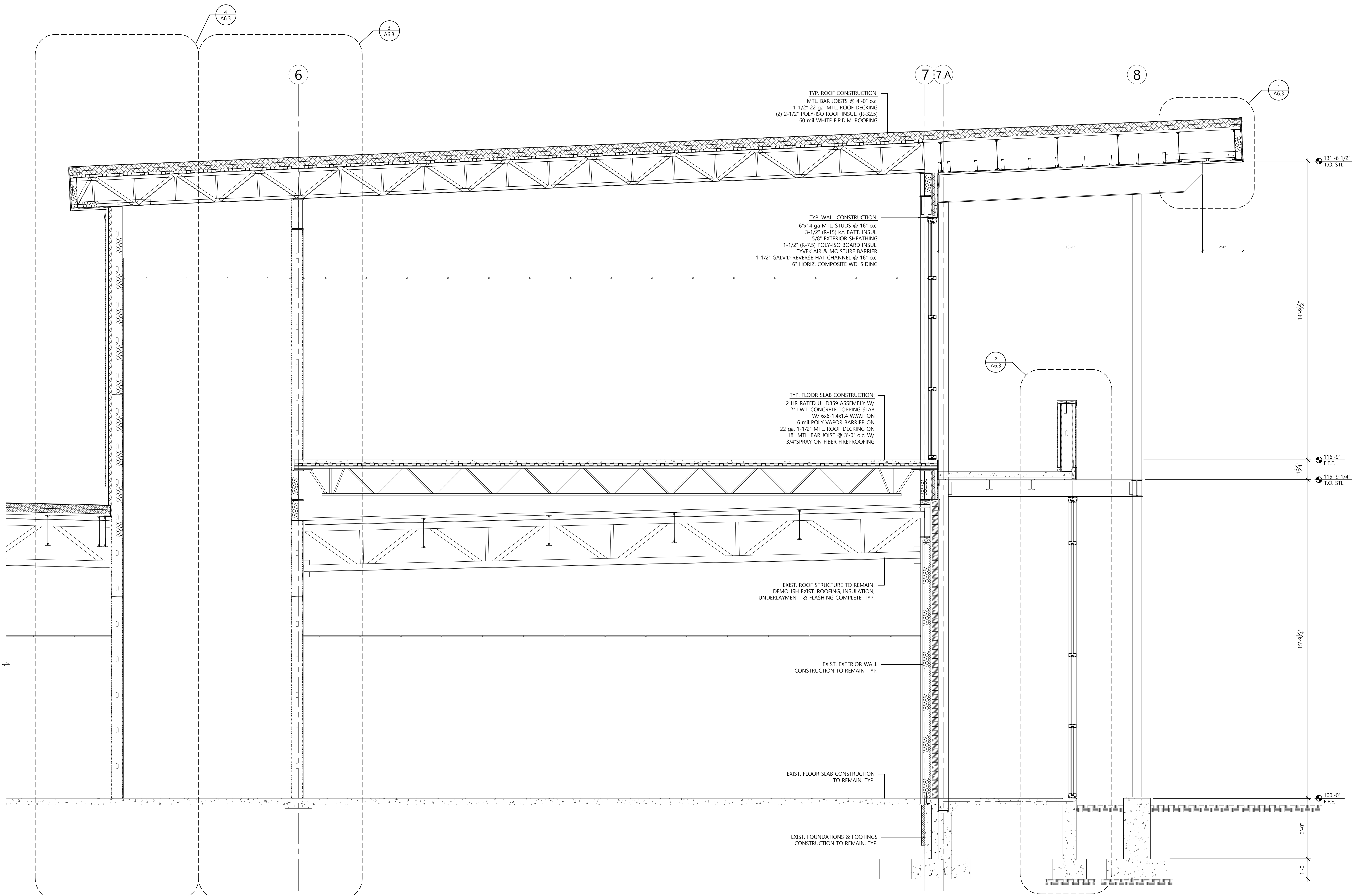
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APPRVD: DRH

A5.1

FILE: 096001A-A5.1-BSECT



1 PARTIAL BUILDING SECTION

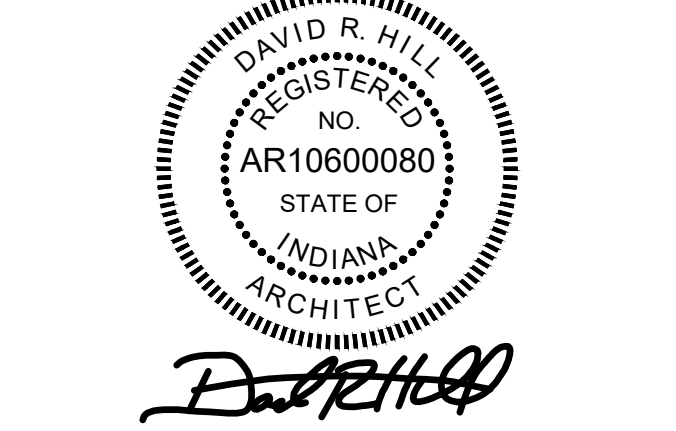
Scale: 1/2"=1'-0"

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3	09/11/25	COORDINATION
4	10/23/25	FOR PERMIT



PARTIAL
BUILDING SECTION

SCALE: 1/2"=1'-0" CLIENT: 096

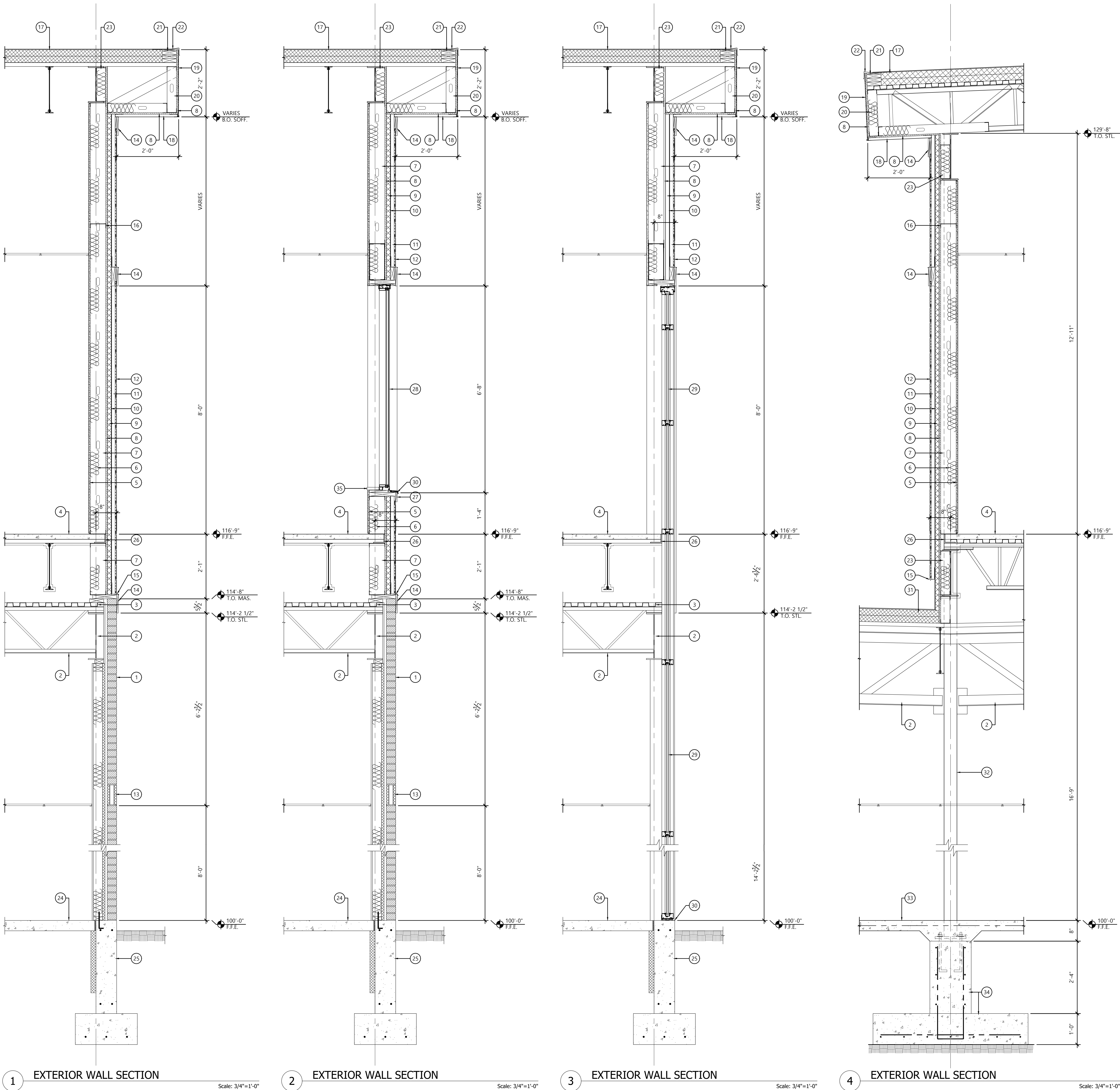
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

APPRVD: DRH

A5.2

FILE: 096001A-A5.2-BSECT



SECTION SYMBOLS:

- ① COLUMN LINE DESIGNATION
- SECTION CUT SYMBOL
- PLAN DETAIL SYMBOL
- ① PLAN NOTE DESIGNATION
- 000'-0" T.O.X. ELEVATION HEIGHT DESIGNATION

GENERAL SECTION NOTES:

- DO NOT SCALE PLANS. ENLARGED PLAN DIMENSIONS TAKE PRECEDENCE OVER SMALLER SCALE PLAN DIMENSIONS.
- ALL EXTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF CONCRETE, EXTERIOR SHEATHING OR FRAMING UNLESS NOTED OTHERWISE.
- ALL FLOOR LEVEL DIMENSIONS ARE TAKEN FROM THE FACE OF SUB-FLOORING UNLESS NOTED OTHERWISE.

SECTION KEYED NOTES:

- EXIST. WALL CONSTRUCT TO REMAIN BELOW. SEE BUILDING SECTION FOR MORE INFORMATION.
- EXIST. STEEL BEAM AND/OR BAR JOISTS TO REMAIN. SEE BUILDING SECTION FOR MORE INFORMATION.
- EXIST. MTL. ROOF DECKING TO REMAIN. SEE BUILDING SECTION FOR MORE INFORMATION.
- NEW UL 859 2 HR RATED FLOOR ASSEMBLY, CONSISTING OF:
 - MTL. BAR JOISTS (SEE STRUCTURAL DRAWINGS FOR SIZE & SPACING).
 - 3/4" SPRAY-ON FIBER FIREPROOFING ON UNDERSIDE OF DECKING.
 - 1-1/2" x 22ga. MTL. DECKING.
 - 6 mil POLY VAPOR BARRIER.
 - LT. WT. CONC. FLOOR SLAB W/ 2" COVER.
 - 5/8" TYPE "X" GYP. BOARD, TYP.
 - 3 1/2" KRAFT FACED BATT INSUL. (R-15), TYP.
 - 6" x 16 ga. MTL. STUDS @ 16" o.c., TYP.
 - 5/8" OSB SHEATHING, TYP.
 - 1-1/2" RIGID POLY-ISO INSUL. (R7.5), TYP.
 - TYVEK AIR & MOISTURE BARRIER, TYP.
 - REVERSE 1-1/2" GALV'D HAT CHANNEL @ 16" o.c., TYP.
 - COMPOSITE WD. SIDING (WS-1), TYP.
 - NEW 4" NOM. GLAZED CMU (CMU-1), TYP.
 - LP SMARTSIDE SERIES 440 7.21" SMOOTH COMPOSITE WD. TRIM, TYP.
 - COMP. RUBBERIZED ASPHALT FLASHING, TYP.
 - FIRE BLOCKING @ 10'-0" o.c. VERT., TYP.
 - NEW ROOF CONSTRUCTION, CONSISTING OF:
 - MTL. BAR JOISTS @ 4'-0" o.c., TYP.
 - 1 1/2" MTL. ROOF DECKING, TYP.
 - (2) 2 1/2" POLY-ISO ROOF INSUL. (R-32.5), TYP.
 - 6 mil WHITE E.P.D.M. ROOFING, TYP.
 - UN-VENTED ALUM. SOFFIT PANEL, TYP.
 - ACM ALUM. FASCIA PANEL, TYP.
 - 3-5/8" x 18 ga. MTL. FRAMING @ 16" o.c., TYP.
 - P.T. WD. BLOCKING, TYP.
 - METAL GRAVEL STOP WITH KYNAR FINISH, TYP.
 - MTL. STUD CRIPPLE FRAMING, TYP.
 - EXIST. FIRST FLOOR SLAB TO REMAIN, TYP.
 - EXIST. FOOTINGS & FOUNDATION TO REMAIN, TYP.
 - STEEL PERIMETER ANGLE. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION, TYP.
 - LP SMARTSIDE SERIES 440 3.50" SMOOTH COMPOSITE WD. TRIM, TYP.
 - KAWNEER 8400TL ALUM. WINDOW, TYP.
 - KAWNEER 451T ANODIZED ALUM. STOREFRONT, TYP.
 - BASE FLASHING PER STOREFRONT OR WINDOW MANUFACTURER'S INSTRUCTIONS, TYP.
 - NEW ROOFING SYSTEM ON EXIST. MTL. DECKING, CONSISTING OF:
 - (2) 2 1/2" POLY-ISO ROOF INSUL. (R-32.5), TYP.
 - 6 mil WHITE E.P.D.M. ROOFING, TYP.
 - NEW STL. COLUMN. SEE STRUCTURAL DRAWINGS FOR DETAILS, TYP.
 - NEW FLOOR SLAB ON GRADE, CONSISTING OF:
 - 4" CONC. SLAB W/
 - 6x6 1.4x1.4 W.W.F. ON
 - 6 mil POLY VAPOR BARRIER ON
 - COMPACTED GRANULAR FILL
 - NEW REINFORCED CONC. FOOTING, FOUNDATION AND/OR PIER. SEE STRUCTURAL DRAWINGS FOR DETAILS, TYP.
 - SOLID SURFACE SILL, TYP.
 - 6" x 18 ga. MTL. STUDS @ 16" o.c., TYP.
 - NEW BALCONY FLOOR CONSTRUCTION, CONSISTING OF:
 - 3-1/4" LT. WT. CONC. SLAB W/
 - 6x6 1.4x1.4 W.W.F. ON
 - 1-1/2" x 22 ga MTL. DECKING ON
 - STRUCTURAL STEEL FRAMING.
 - 3/8" CONT. STL. PLATE WELDED TO EDGE ANGLES, TYP.
 - ANCHOR BOLTS @ 24" o.c., TYP.
 - CONTINUOUS METAL COPING WITH KYNAR FINISH, TYP.
 - EXTEND ROOFING MEMBRANE UP AND OVER WALL, TYP.
 - 8" NOM. CMU BOND BEAM W/ (2) #4 REBAR HORIZ. CONT., TYP.
 - 14 ga MTL. STUD BOX HEADER, TYP.
 - 8" NOM. CMU MASONRY (CMU-2), TYP.
 - GROUT SOLID CELLS WITH REBAR, TYP.
 - FILL UNGROUTED CELLS W/ PEARLITE INSULATION, TYP.
 - HORIZONTAL LADDER REINFORCING @ 16" o.c. VERT., TYP.
 - #4 REBAR VERT. @ 24" o.c. HORIZ., TYP.
 - PAN FLASHING W/ TYP.
 - POLY MESH DRAINAGE MAT, TYP.
 - SIDEWALK. REFER TO SITE PLANS, TYP.
 - TUBE STEEL SUPPORT ANCHORED TO CONC. SLAB & TOP TRACK. SEE DETAIL X/AXX FOR MORE INFORMATION.
 - 1-1/2" GALV'D HAT CHANNEL @ 16" o.c., TYP.
 - DRYWALL CONTROL JOINT, TYP.
 - 2" RIGID POLY-ISO INSUL. (R-16) FOR 36" HORIZ. CMU SOAP, TYP.
 - 4" NOM. CMU (CMU-3), TYP.
 - 1-5/8" x 16 ga. MTL. STUDS @ 16" o.c., TYP.
 - 3-5/8" x 16 ga. MTL. STUDS @ 16" o.c., TYP.
 - 4" NOM. CMU (CMU-3) BOND BEAM W/ (1) #5 REBAR CONT., TYP.
 - ADJUSTABLE MASONRY TIES @ 16" o.c. EACH WAY, TYP.

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**UNION HALL
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MUNSTER, IN, 46321**

MARK	DATE	DESCRIPTION
1	08/28/25	COORDINATION
2	09/11/25	COORDINATION
3	10/23/25	FOR PERMIT

DAVID R. HILL
REGISTERED
NO.
AR10600080
STATE OF
INDIANA
ARCHITECT
David Hill

**EXTERIOR
WALL SECTIONS
& DETAILS**

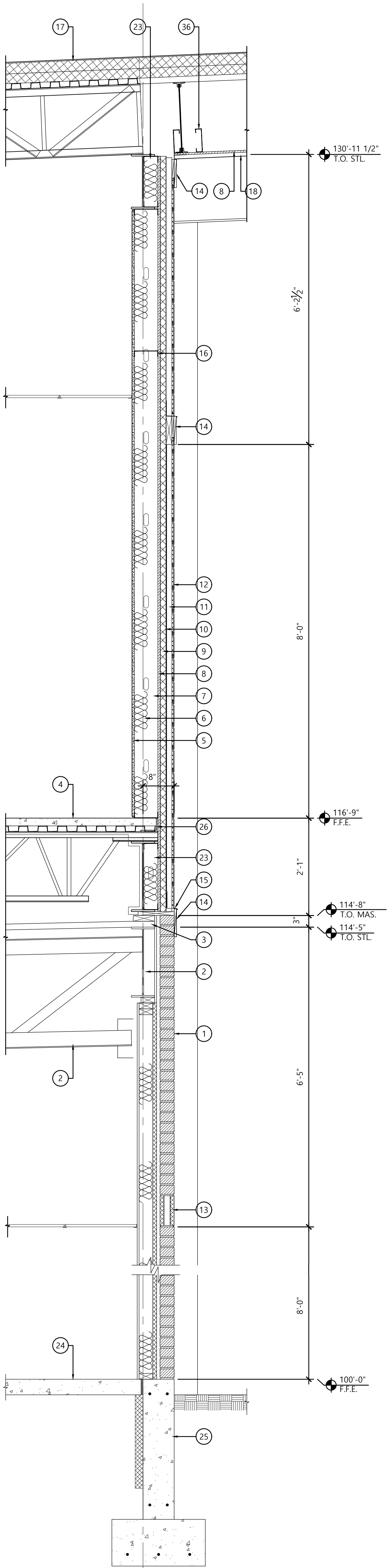
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DATE: 06/24/25 PROJECT: 096001

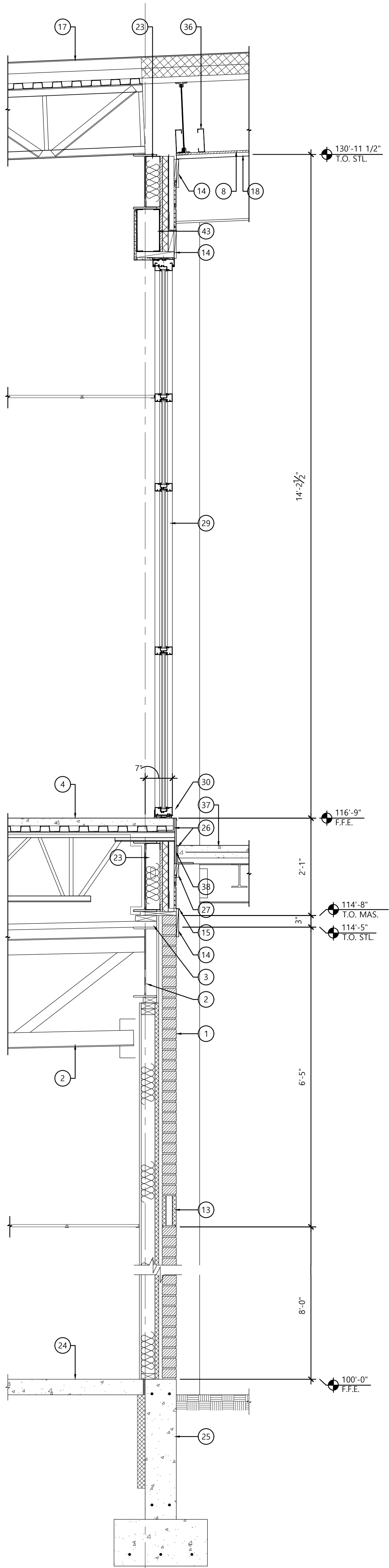
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APPRVD: DRH

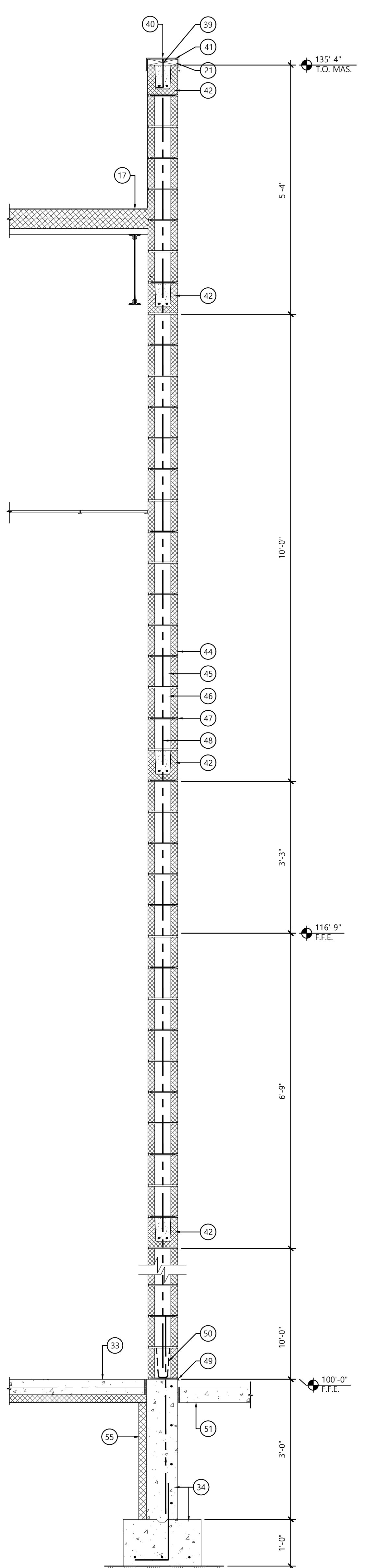
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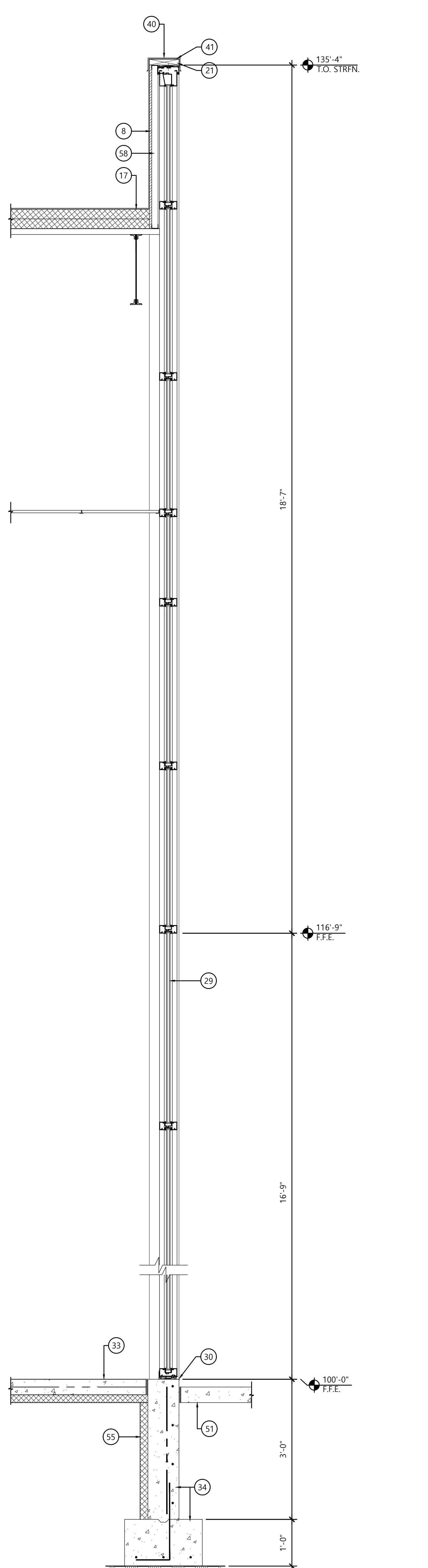
1 EXTERIOR WALL SECTION
Scale: 3/4"=1'-0"



2 EXTERIOR WALL SECTION
Scale: 3/4"=1'-0"



3 EXTERIOR WALL SECTION
Scale: 3/4"=1'-0"



4 EXTERIOR WALL SECTION
Scale: 3/4"=1'-0"

SECTION SYMBOLS:

- 1 COLUMN LINE DESIGNATION
- X XXX SECTION CUT SYMBOL
- X XXX PLAN DETAIL SYMBOL
- 1 PLAN NOTE DESIGNATION
- 000'-0" T.O.X. ELEVATION HEIGHT DESIGNATION

GENERAL SECTION NOTES:

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- ALL FLOOR LEVEL DIMENSIONS ARE TAKEN FROM THE FACE OF SUB-FLOORING UNLESS NOTED OTHERWISE.

SECTION KEYED NOTES:

- EXIST. WALL CONSTRUCT TO REMAIN BELOW. SEE BUILDING SECTION FOR MORE INFORMATION.
- EXIST. STEEL BEAM AND/OR BAR JOISTS TO REMAIN. SEE BUILDING SECTION FOR MORE INFORMATION.
- EXIST. MTL. ROOF DECKING TO REMAIN. SEE BUILDING SECTION FOR MORE INFORMATION.
- NEW UL 859 2 HR RATED FLOOR ASSEMBLY, CONSISTING OF:
 - MTL. BAR JOISTS (SEE STRUCTURAL DRAWINGS FOR SIZE & SPACING).
 - 3/4" SPRAY-ON FIBER FIREPROOFING ON UNDERSIDE OF DECKING.
 - 1-1/2" x 22ga MTL. DECKING.
 - 6 mil POLY VAPOR BARRIER.
 - LT. WT. CONC. FLOOR SLAB W/ 2" COVER.
 - 5/8" TYPE "X" GYP. BOARD, TYP.
 - 3 1/2" KRAFT FACED BATT INSUL. (R-15), TYP.
 - 6" x 16 ga. MTL. STUDS @ 16" o.c., TYP.
 - 5/8" OSB SHEATHING, TYP.
 - 1-1/2" RIGID POLY-ISO INSUL. (R7.5), TYP.
 - TYVEK AIR & MOISTURE BARRIER, TYP.
 - REVERSE 1-1/2" GALV'D HAT CHANNEL @ 16" o.c., TYP.
 - COMPOSITE WD. SIDING (WS-1), TYP.
 - NEW 4" NOM. GLAZED CMU (CMU-1), TYP.
 - LP SMARTSIDE SERIES 440 7.21" SMOOTH COMPOSITE WD. TRIM, TYP.
 - COMP. RUBBERIZED ASPHALT FLASHING, TYP.
 - FIRE BLOCKING @ 10'-0" o.c. VERT., TYP.
 - NEW ROOF CONSTRUCTION, CONSISTING OF:
 - MTL. BAR JOISTS @ 4'-0" o.c., TYP.
 - 1 1/2" MTL. ROOF DECKING, TYP.
 - 2 1/2" POLY-ISO ROOF INSUL. (R-32.5), TYP.
 - 6 mil WHITE E.P.D.M. ROOFING, TYP.
 - UN-VENTED ALUM. SOFFIT PANLE, TYP.
 - ACM ALUM. FASCIA PANEL, TYP.
 - 3-5/8" x 18 ga. MTL. FRAMING @ 16" o.c., TYP.
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 - KAWNEER 451T ANODIZED ALUM. STOREFRONT, TYP.
 - BASE FLASHING PER STOREFRONT OR WINDOW MANUFACTURER'S INSTRUCTIONS, TYP.
 - NEW ROOFING SYSTEM ON EXIST. MTL. DECKING, CONSISTING OF:
 - 2 1/2" POLY-ISO ROOF INSUL. (R-32.5), TYP.
 - 6 mil WHITE E.P.D.M. ROOFING, TYP.
 - NEW STL. COLUMN. SEE STRUCTURAL DRAWINGS FOR DETAILS, TYP.
 - NEW FLOOR SLAB ON GRADE, CONSISTING OF:
 - 4" CONC. SLAB W/
 - 6x6 1-4x1-4 W.W.F. ON
 - 6 mil POLY VAPOR BARRIER ON
 - COMPACTED GRANULAR FILL
 - NEW REINFORCED CONC. FOOTING FOUNDATION AND/OR PIER. SEE STRUCTURAL DRAWINGS FOR DETAILS, TYP.
 - SOLID SURFACE SILL, TYP.
 - 6" x 18 ga. MTL. STUDS @ 16" o.c., TYP.
 - NEW BALCONY FLOOR CONSTRUCTION, CONSISTING OF:
 - 3-1/4" LT. WT. CONC. SLAB W/
 - 6x6 1-4x1-4 W.W.F. ON
 - 1-1/2" x 22 ga MTL DECKING ON
 - STRUCTURAL STEEL FRAMING.
 - 3/8" CONT. STL. PLATE WELDED TO EDGE ANGLES, TYP.
 - ANCHOR BOLTS @ 24" o.c., TYP.
 - CONTINUOUS METAL COPING WITH KYNAR FINISH, TYP.
 - EXTEND ROOFING MEMBRANE UP AND OVER WALL, TYP.
 - 8" NOM. CMU BOND BEAM W/ (2) #4 REBAR HORIZ. CONT., TYP.
 - 14 ga MTL. STUD BOX HEADER, TYP.
 - 8" NOM. CMU MASONRY (CMU-3), TYP.
 - GROUT SOLID CELLS WITH REBAR, TYP.
 - FILL UNGROUTED CELLS W/ PEARLITE INSULATION, TYP.
 - HORIZONTAL LADDER REINFORCING @ 16" o.c. VERT., TYP.
 - #4 REBAR VERT. @ 24" o.c. HORIZ., TYP.
 - PAN FLASHING W/ TYP.
 - POLY MESH DRAINAGE MAT, TYP.
 - SIDEWALK. REFER TO SITE PLANS, TYP.
 - TUBE STEEL SUPPORT ANCHORED TO CONC. SLAB & TOP TRACK. SEE DETAIL X/AXX FOR MORE INFORMATION.
 - 1-1/2" GALV'D HAT CHANNEL @ 16" o.c., TYP.
 - DRYWALL CONTROL JOINT, TYP.
 - 2" RIGID POLY-ISO INSUL. (R-16) FOR 36" HORIZ. CMU SOAP, TYP.
 - 4" NOM. CMU (CMU-3), TYP.
 - 1-5/8" x 16 ga. MTL. STUDS @ 16" o.c., TYP.
 - 3-5/8" x 16 ga. MTL. STUDS @ 16" o.c., TYP.
 - 4" NOM. CMU (CMU-3) BOND BEAM W/ (1) #5 REBAR CONT., TYP.
 - ADJUSTABLE MASONRY TIES @ 16" o.c. EACH WAY, TYP.

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(574) 261-4635

VETTA ENGINEERING
147 CONEFLOWER DRIVE, DYER, IN 46311
219-808-6910

McMAHON ENGINEERS ARCHITECTS
352 South State Road 2
Valparaiso, Indiana, 46385
Tel: (219) 462-7743 Fax: (219) 464-8248
mcm@mcmgrp-in.com

LiUNA!
Feel the Power

LABORER'S INTERNATIONAL UNION OF NORTH AMERICA LOCAL #41

UNION HALL RENOVATION - 2025

550 SUPERIOR AVE., MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
1	08/28/25	COORDINATION
2	09/11/25	COORDINATION
3	10/23/25	FOR PERMIT

DAVID R. HILL REGISTERED ARCHITECT
NO. AR10600080
STATE OF INDIANA
David Hill

EXTERIOR WALL SECTIONS & DETAILS

SCALE: 3/4"=1'-0" CLIENT: 096

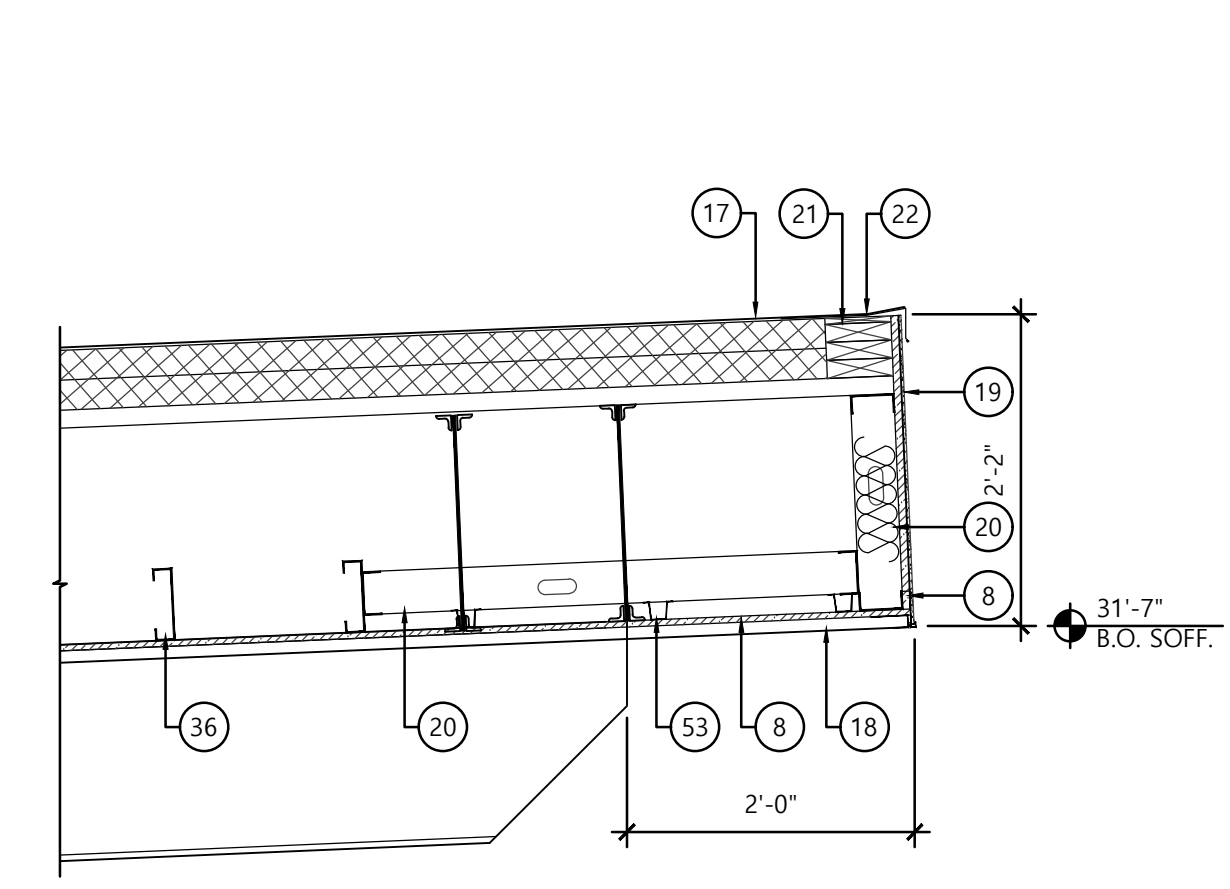
DATE: 06/24/25 PROJECT: 096001

DRAWN: DRH

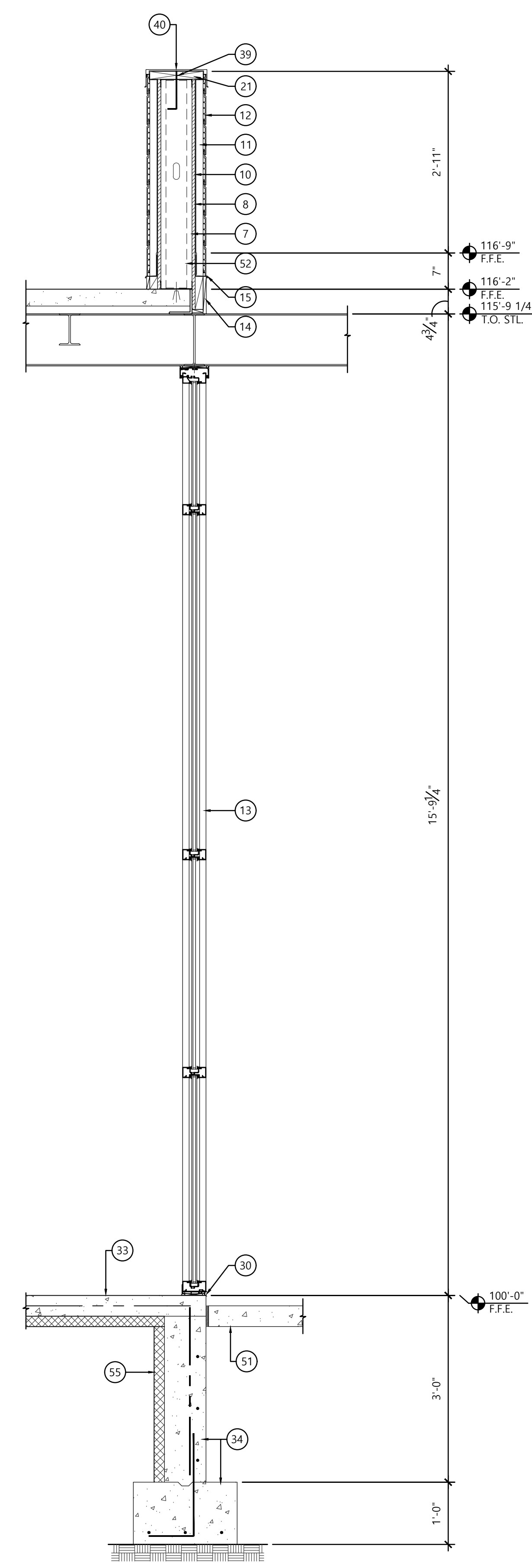
APPRVD: DRH

A6.2

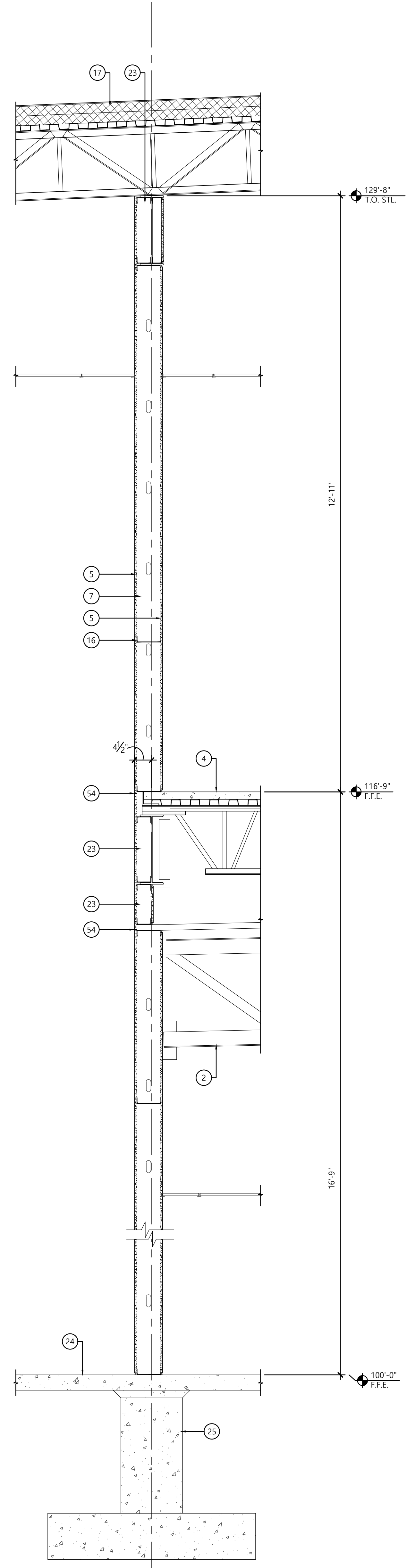
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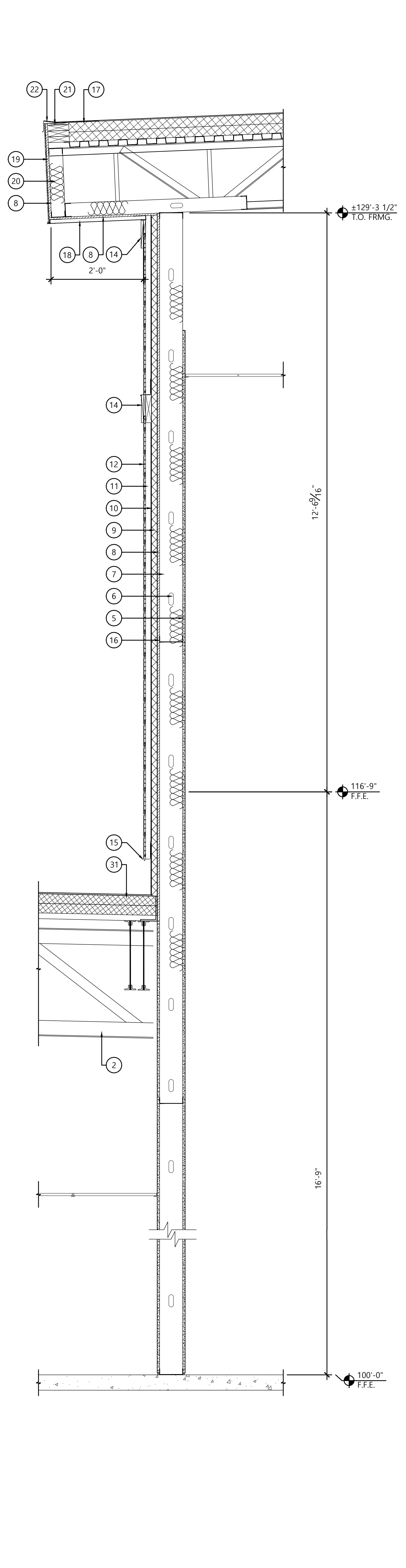
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Scale: 3/4"=1'-0"



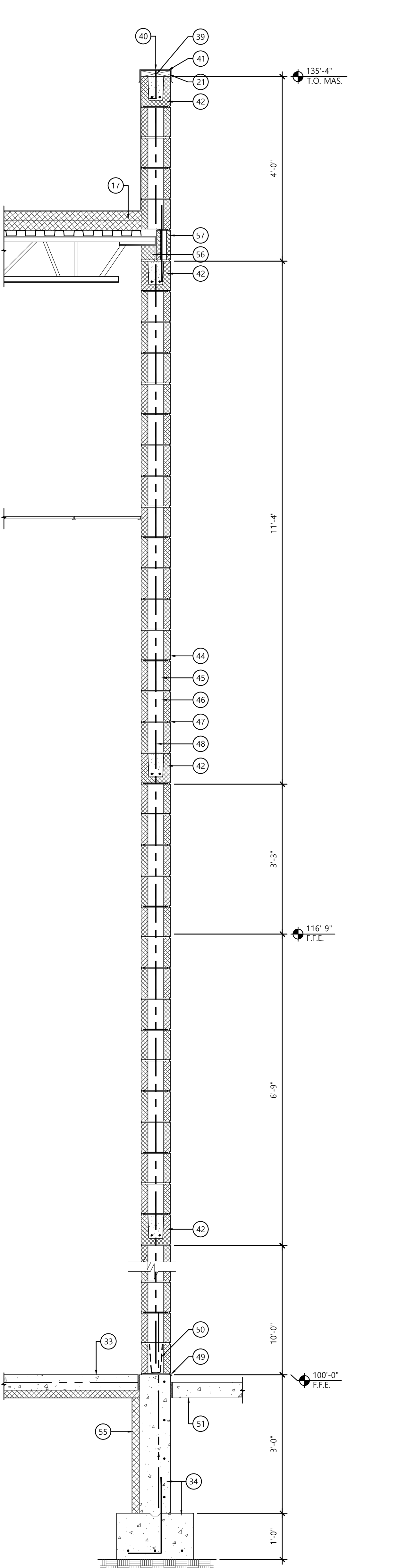
2 EXTERIOR WALL SECTION
Scale: 3/4"=1'-0"



3 EXTERIOR WALL SECTION
Scale: 3/4"=1'-0"

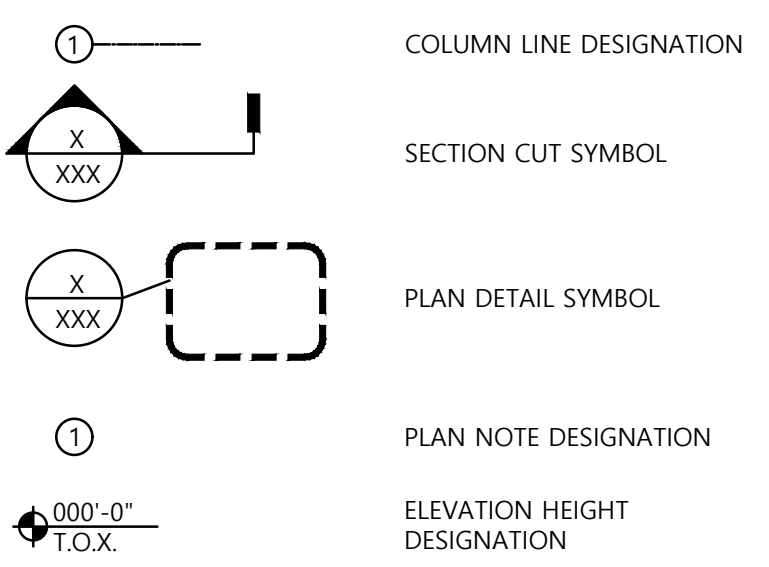


4 EXTERIOR WALL SECTION
Scale: 3/4"=1'-0"



5 EXTERIOR WALL SECTION
Scale: 3/4"=1'-0"

SECTION SYMBOLS:



GENERAL SECTION NOTES:

- DO NOT SCALE PLANS. ENLARGED PLAN DIMENSIONS TAKE PRECEDENCE OVER SMALLER SCALE PLAN DIMENSIONS.
- ALL EXTERIOR DIMENSIONS ARE TAKEN FROM THE FACE OF CONCRETE, EXTERIOR SHEATHING OR FRAMING UNLESS NOTED OTHERWISE.
- ALL FLOOR LEVEL DIMENSIONS ARE TAKEN FROM THE FACE OF SUB-FLOORING UNLESS NOTED OTHERWISE.

SECTION KEYED NOTES:

- EXIST. WALL CONSTRUCT TO REMAIN BELOW. SEE BUILDING SECTION FOR MORE INFORMATION.
- EXIST. STEEL BEAM AND/OR BAR JOISTS TO REMAIN. SEE BUILDING SECTION FOR MORE INFORMATION.
- EXIST. MTL. ROOF DECKING TO REMAIN. SEE BUILDING SECTION FOR MORE INFORMATION.
- NEW UL 859 2 HR RATED FLOOR ASSEMBLY, CONSISTING OF:
 - MTL. BAR JOISTS (SEE STRUCTURAL DRAWINGS FOR SIZE & SPACING).
 - 3/4" SPRAY-ON FIBER FIREPROOFING ON UNDERSIDE OF DECKING.
 - 1-1/2" x 22ga MTL. DECKING.
 - 6 mil POLY VAPOR BARRIER.
 - LT. WT. CONC. FLOOR SLAB W/ 2" COVER.
 - 5/8" TYPE "X" GYP. BOARD, TYP.
 - 3 1/2" KRAFT FACED BATT INSUL. (R-15), TYP.
 - 6" x 16 ga. MTL. STUDS @ 16" o.c., TYP.
 - 5/8" OSB SHEATHING, TYP.
 - 1-1/2" RIGID POLY-ISO INSUL. (R7.5), TYP.
 - TYVEK AIR & MOISTURE BARRIER, TYP.
 - REVERSE 1-1/2" GALV'D HAT CHANNEL @ 16" o.c., TYP.
 - COMPOSITE WD. SIDING (WS-1), TYP.
 - NEW 4" NOM. GLAZED CMU (CMU-1), TYP.
 - LP SMARTSIDE SERIES 440 7.21" SMOOTH COMPOSITE WD. TRIM, TYP.
 - COMP. RUBBERIZED ASPHALT FLASHING, TYP.
 - FIRE BLOCKING @ 10'-0" o.c. VERT., TYP.
 - NEW ROOF CONSTRUCTION, CONSISTING OF:
 - MTL. BAR JOISTS @ 4'-0" o.c., TYP.
 - 1 1/2" MTL. ROOF DECKING, TYP.
 - 2 1/2" POLY-ISO ROOF INSUL. (R-32.5), TYP.
 - 6 mil WHITE E.P.D.M. ROOFING, TYP.
 - UN-VENTED ALUM. SOFFIT PANLE, TYP.
 - ACM ALUM. FASCIA PANEL, TYP.
 - 3-5/8" x 18 ga. MTL. FRAMING @ 16" o.c., TYP.
 - P.T. WD. BLOCKING, TYP.
 - METAL GRAVEL STOP WITH KYNAR FINISH, TYP.
 - MTL. STUD CRIPPLE FRAMING, TYP.
 - EXIST. FIRST FLOOR SLAB TO REMAIN, TYP.
 - EXIST. FOOTINGS & FOUNDATION TO REMAIN, TYP.
 - STEEL PERIMETER ANGLE. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION, TYP.
 - LP SMARTSIDE SERIES 440 3.50" SMOOTH COMPOSITE WD. TRIM, TYP.
 - KAWNEER 8400TL ALUM. WINDOW, TYP.
 - KAWNEER 451T ANODIZED ALUM. STOREFRONT, TYP.
 - BASE FLASHING PER STOREFRONT OR WINDOW MANUFACTURER'S INSTRUCTIONS, TYP.
 - NEW ROOFING SYSTEM ON EXIST. MTL. DECKING, CONSISTING OF:
 - 2 1/2" POLY-ISO ROOF INSUL. (R-32.5), TYP.
 - 6 mil WHITE E.P.D.M. ROOFING, TYP.
 - NEW STL. COLUMN. SEE STRUCTURAL DRAWINGS FOR DETAILS, TYP.
 - NEW FLOOR SLAB ON GRADE, CONSISTING OF:
 - 4" CONC. SLAB W/
 - 6x6 1-4x1-4 W.W.F. ON
 - 6 mil POLY VAPOR BARRIER ON
 - COMPACTED GRANULAR FILL
 - NEW REINFORCED CONC. FOOTING FOUNDATION AND/OR PIER. SEE STRUCTURAL DRAWINGS FOR DETAILS, TYP.
 - SOLID SURFACE SILL, TYP.
 - 6" x 18 ga. MTL. STUDS @ 16" o.c., TYP.
 - NEW BALCONY FLOOR CONSTRUCTION, CONSISTING OF:
 - 3-1/4" LT. WT. CONC. SLAB W/
 - 6x6 1-4x1-4 W.W.F. ON
 - 1-1/2" x 22 ga MTL. DECKING ON
 - STRUCTURAL STEEL FRAMING.
 - 3/8" CONT. STL. PLATE WELDED TO EDGE ANGLES, TYP.
 - ANCHOR BOLTS @ 24" o.c., TYP.
 - CONTINUOUS METAL COPING WITH KYNAR FINISH, TYP.
 - EXTEND ROOFING MEMBRANE UP AND OVER WALL, TYP.
 - 8" NOM. CMU BOND BEAM W/ (2) #4 REBAR HORIZ. CONT., TYP.
 - 14 ga MTL. STUD BOX HEADER, TYP.
 - 8" NOM. CMU MASONRY (CMU-3), TYP.
 - GROUT SOLID CELLS WITH REBAR, TYP.
 - FILL UNGROUTED CELLS W/ PEARLITE INSULATION, TYP.
 - HORIZONTAL LADDER REINFORCING @ 16" o.c. VERT., TYP.
 - #4 REBAR VERT. @ 24" o.c. HORIZ., TYP.
 - PAN FLASHING W/ TYP.
 - POLY MESH DRAINAGE MAT, TYP.
 - SIDEWALK. REFER TO SITE PLANS, TYP.
 - TUBE STEEL SUPPORT ANCHORED TO CONC. SLAB & TOP TRACK. SEE DETAIL X/AXX FOR MORE INFORMATION.
 - 1-1/2" GALV'D HAT CHANNEL @ 16" o.c., TYP.
 - DRYWALL CONTROL JOINT, TYP.
 - 2" RIGID POLY-ISO INSUL. (R-16) FOR 36" HORIZ. CMU SOAP, TYP.
 - 4" NOM. CMU (CMU-3), TYP.
 - 1-5/8" x 16 ga. MTL. STUDS @ 16" o.c., TYP.
 - 3-5/8" x 16 ga. MTL. STUDS @ 16" o.c., TYP.
 - 4" NOM. CMU (CMU-3) BOND BEAM W/ (1) #5 REBAR CONT., TYP.
 - ADJUSTABLE MASONRY TIES @ 16" o.c. EACH WAY, TYP.

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AMERICA LOCAL #41

UNION HALL
RENOVATION - 2025

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MARK	DATE	DESCRIPTION
1	08/28/25	COORDINATION
2	09/11/25	COORDINATION
3	10/23/25	FOR PERMIT

DAVID R. HILL
REGISTERED
NO.
AR10600080
STATE OF
INDIANA
ARCHITECT
D. R. Hill

EXTERIOR
WALL SECTIONS
& DETAILS

SCALE: 3/4"=1'-0" CLIENT: 096

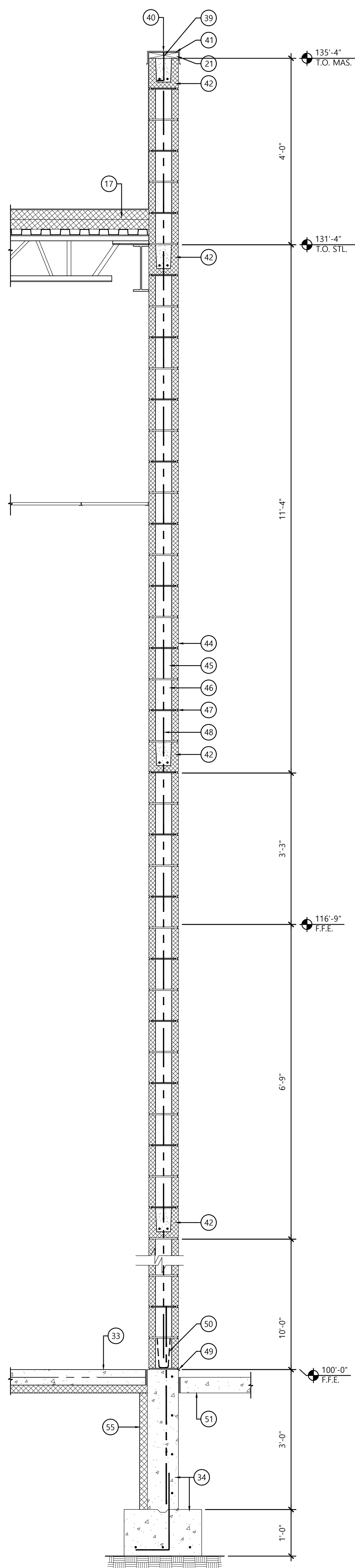
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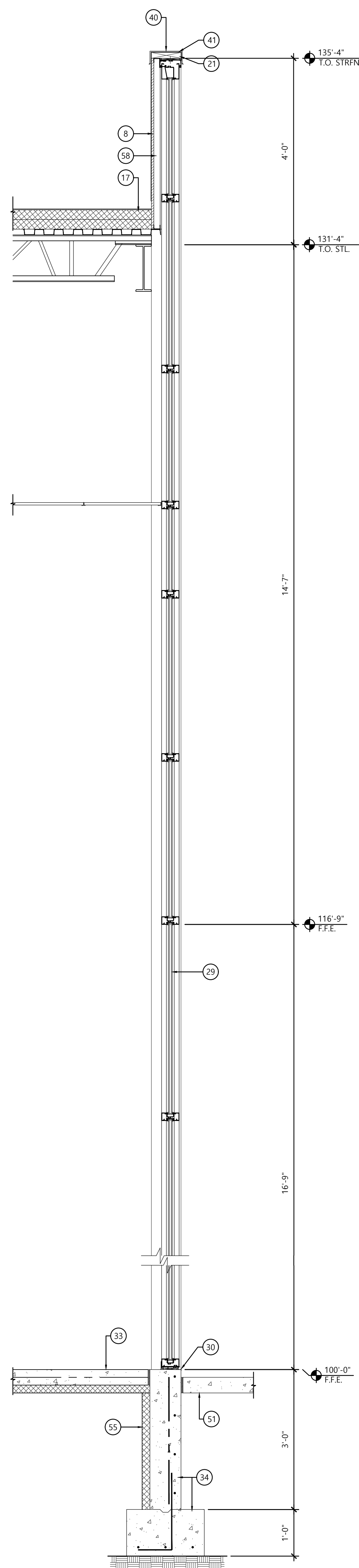
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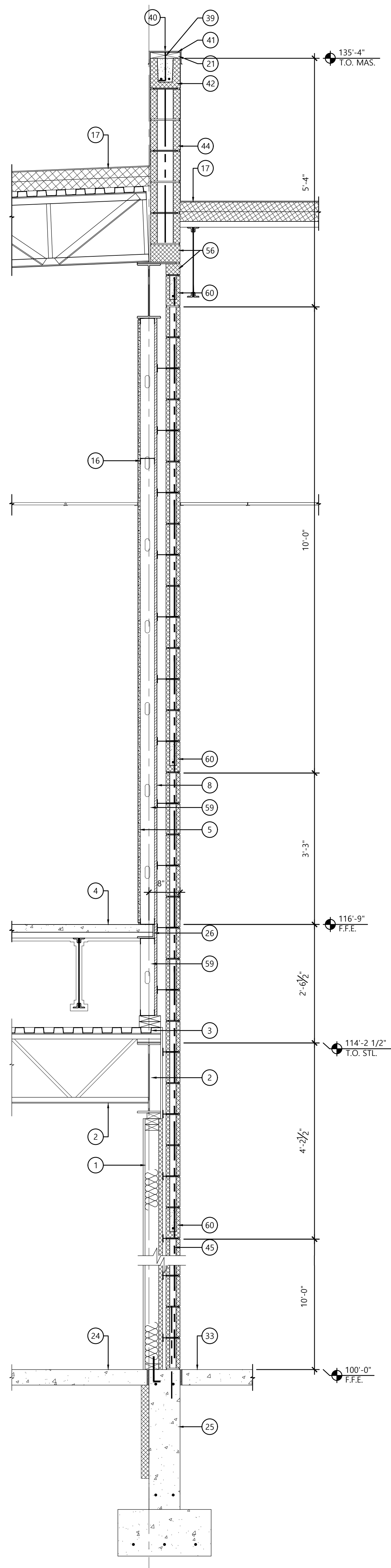
EXTERIOR WALL SECTION

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



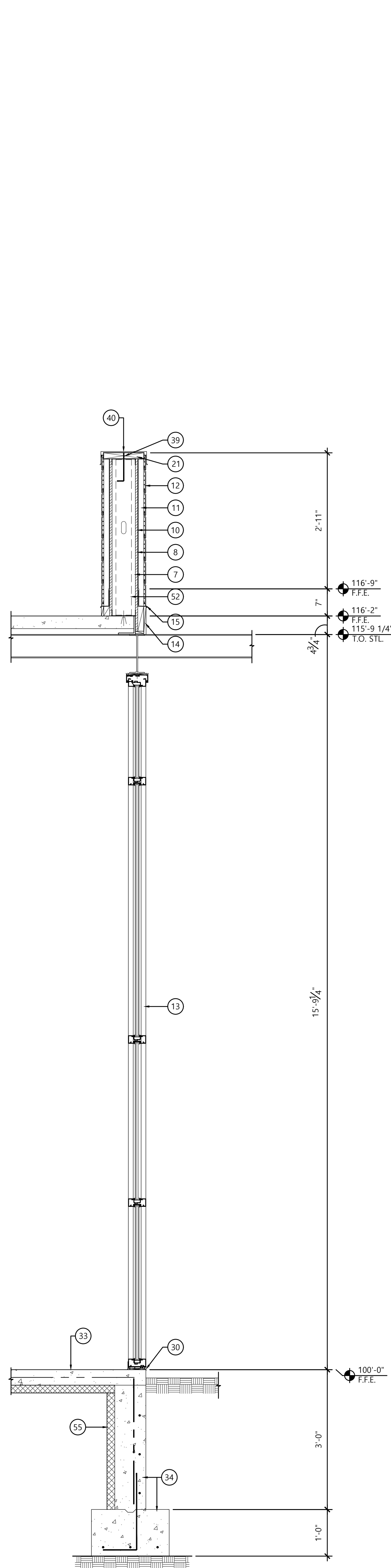
EXTERIOR WALL SECTION

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



EXTERIOR WALL SECTION

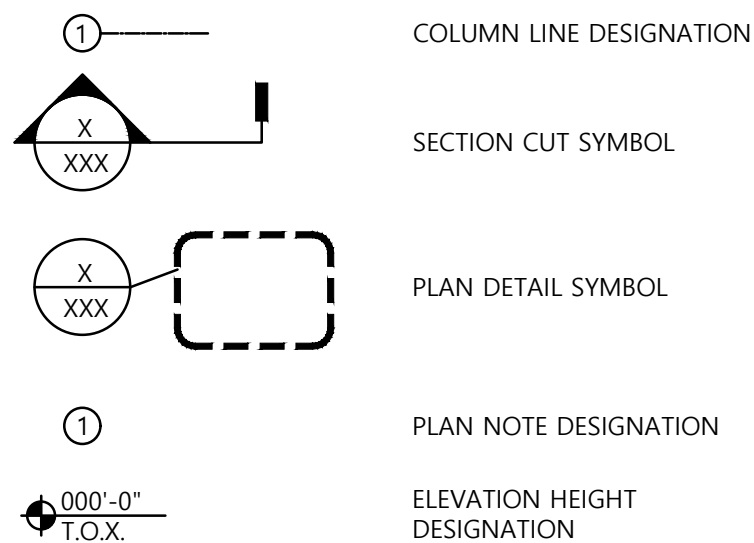
$3/4"=1'-0"$



EXTERIOR WALL SECTION

$$3/4^m = 1' - 0^m$$

SECTION SYMBOLS:



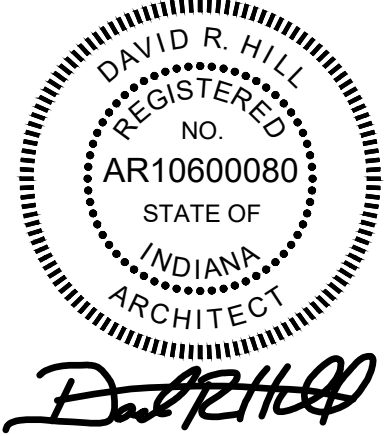
GENERAL SECTION NOTES:

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3. ALL FLOOR LEVEL DIMENSIONS ARE TAKEN FROM THE FACE OF SUB-FLOORING UNLESS NOTED OTHERWISE.

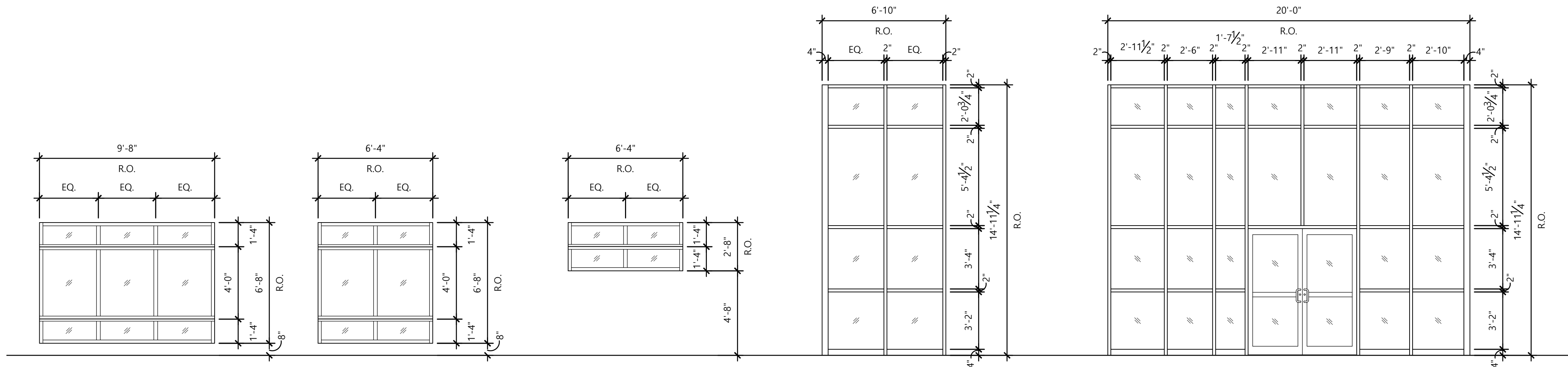
SECTION KEYED NOTES:

- EXIST. WALL CONSTRUCT TO REMAIN BELOW, SEE BUILDING SECTION FOR MORE INFORMATION.
2. EXIST. STEEL BEAM AND/OR BAR JOISTS TO REMAIN, SEE BUILDING SECTION FOR MORE INFORMATION.
3. EXIST. MTL. ROOF DECKING TO REMAIN, SEE BUILDING SECTION FOR MORE INFORMATION.
4. NEW UL 899 2 HR RATED FLOOR ASSEMBLY, CONSISTING OF:
41. MTL. BAR JOISTS (SEE STRUCTURAL DRAWINGS FOR SIZE & SPACING).
42. 3/4" SPRAY-ON FIBER FIREPROOFING ON UNDERSIDE OF DECKING.
43. 1-1/2" x 22ga MTL. DECKING.
44. 6 mil POLY VAPOR BARRIER.
45. LT. WT. CONC. FLOOR SLAB W/ 2" COVER.
5. 5/8" TYP. 2" GRC BOARD, TYP.
6. 3-1/2" KRAFT FACED BATT INSUL. (R-15), TYP.
7. 6" x 16 ga MTL. STUDS @ 16" o.c., TYP.
8. 5/8" OSB SHEATHING, TYP.
9. 1-1/2" RIGID POLY-ISO INSUL. (R7.5), TYP.
10. REVERSE AIR & MOISTURE BARRIER, TYP.
11. TYVEK 1-1/2" GALV'D HT CHANNEL @ 16" o.c., TYP.
12. COMPOSITE WD. SIDING (WS-1), TYP.
13. NEW 4" NOM. GLAZED CMU (CMU-1), TYP.
14. LP SMARTSIDE SERIES 440 7.21" SMOOTH COMPOSITE WD. TRIM, TYP.
15. COMP. RUBBERIZED ASPHALT FLASHING, TYP.
16. FIRE BLOCKING @ 10'-0" o.c. VERT., TYP.
17. NEW ROOF CONSTRUCTION, CONSISTING OF:
- 17.1. MTL. BAR JOISTS @ 4'-0" o.c., TYP.
- 17.2. 1 1/2" MTL. ROOF DECKING, TYP.
- 17.3. (2) 1 1/2" POLY-ISO ROOF INSUL. (R-32.5), TYP.
- 17.4. 6 mil WHITE E.P.D.M. ROOFING, TYP.
18. UN-VENTED ALUM. SOFFIT PANEL, TYP.
19. ACM ALUM. 24GA PANEL, TYP.
20. 3-5/8" x 18 ga MTL. STUDS @ 16" o.c., TYP.
21. P.T. WD. BLOCKING, TYP.
22. METAL GRAVEL STOP WITH KYNAR FINISH, TYP.
23. MTL. STUD CRIPPLE FRAMING, TYP.
24. EXIST. FIRST FLOOR SLAB TO REMAIN, TYP.
25. EXIST. FOOTINGS & FOUNDATION TO REMAIN, TYP.
26. STEEL PERIMETER ANGLE, SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION, TYP.
27. LP SMARTSIDE SERIES 440 3.50" SMOOTH COMPOSITE WD. TRIM, TYP.
28. KAWNEER 8400LT ALUM. WINDOW, TYP.
29. KAWNEER 451T ANODIZED ALUM. STOREFRONT, TYP.
30. BASE FLASHING PER STOREFRONT OR WINDOW MANUFACTURER'S INSTRUCTIONS, TYP.
31. NEW ROOFING SYSTEM ON EXIST. MTL. DECKING, CONSISTING OF:
- 31.1. (2) 2 1/2" POLY-ISO ROOF INSUL. (R-32.5), TYP.
- 31.2. 6 mil WHITE E.P.D.M. ROOFING, TYP.
32. 12" DIA. STL. COLUMN, SEE STRUCTURAL DRAWINGS FOR DETAILS, TYP.
33. NEW FLOOR SLAB ON GRADE, CONSISTING OF:
- 33.1. 4" CONC. SLAB W/
- 33.2. 6w6 14x14 W.W.F. ON
- 33.3. 6 mil POLY VAPOR BARRIER ON
- 33.4. COMPACTED GRANULAR FILL
34. NEW REINFORCED CONC. FOOTING, FOUNDATION AND/OR PIER, SEE STRUCTURAL DRAWINGS FOR DETAILS, TYP.
35. SLOD SURFACE SILL, TYP.
36. 6" x 18 ga MTL. STUDS @ 16" o.c., TYP.
37. NEW BALCONY FLOOR CONSTRUCTION, CONSISTING OF:
- 37.1. 3-1/4" LT. WT. CONC. SLAB W/
- 37.2. 6w6 14x14 W.W.F. ON
- 37.3. 1-1/2" x 22 ga MTL. DECKING ON
- 37.4. STRUCTURAL STEEL FRAMING.
38. 3/4" THK. PLATE WELDED TO EDGE ANGLES, TYP.
39. ANCHOR BOLTS
40. CONTINUOUS METAL COPING WITH KYNAR FINISH, TYP.
41. EXTEND ROOFING MEMBRANE UP AND OVER WALL, TYP.
42. 8" NOM. CMU BOND BEAM W/ (2) #4 REBAR HORIZ. CONT., TYP.
43. 14 ga MTL. STUD BOX HEADER, TYP.
44. 8" NOM. CMU MASONRY (CMU-2), TYP.
45. GROUT SLOD CELLS WITH REBAR, TYP.
46. FILL UNGROUTED CELLS W/ PEARLITE INSULATION, TYP.
47. HORIZONTAL LADDER REINFORCING @ 16" o.c. VERT., TYP.
48. #4 REBAR VERT. @ 24" o.c. HORIZ., TYP.
49. PAN FLASHING W/
50. POLY MESH DRAINAGE MAT, TYP.
51. SIDEWALK, REFER TO SITE PLANS, TYP.
52. TUBE STEEL SUPPORT ANCHORED TO CONC. SLAB & TOP TRACK, SEE DETAIL X/XXX FOR MORE INFORMATION.
53. 1-1/2" GALV'D HT CHANNEL @ 16" o.c., TYP.
54. DRYWALL CONTROL JUNG, TYP.
55. 2" RIGID POLY-ISO INSUL. (R-16) FOR 36" HORIZ. CMU SOAP, TYP.
57. 4" NOM. CMU (CMU-3), TYP.
58. 1-5/8" x 16 ga MTL. STUDS @ 16" o.c., TYP.
59. 3-5/8" x 16 ga MTL. STUDS @ 16" o.c., TYP.
60. 4" NOM. CMU (CMU-3) BOND BEAM W/ (1) #5 REBAR CONT., TYP.
61. ADJUSTABLE MASONRY TIES @ 16" o.c. EACH WAY, TYP.

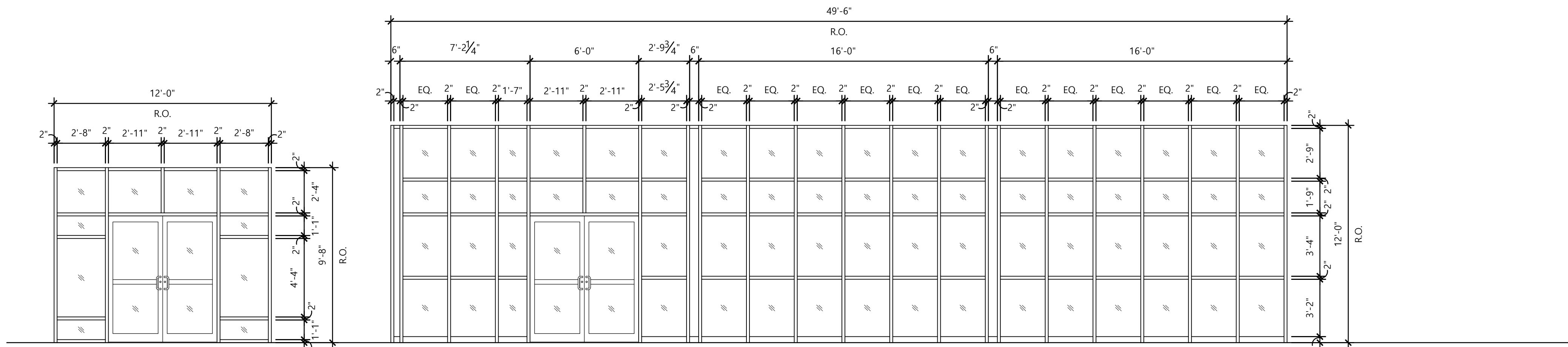
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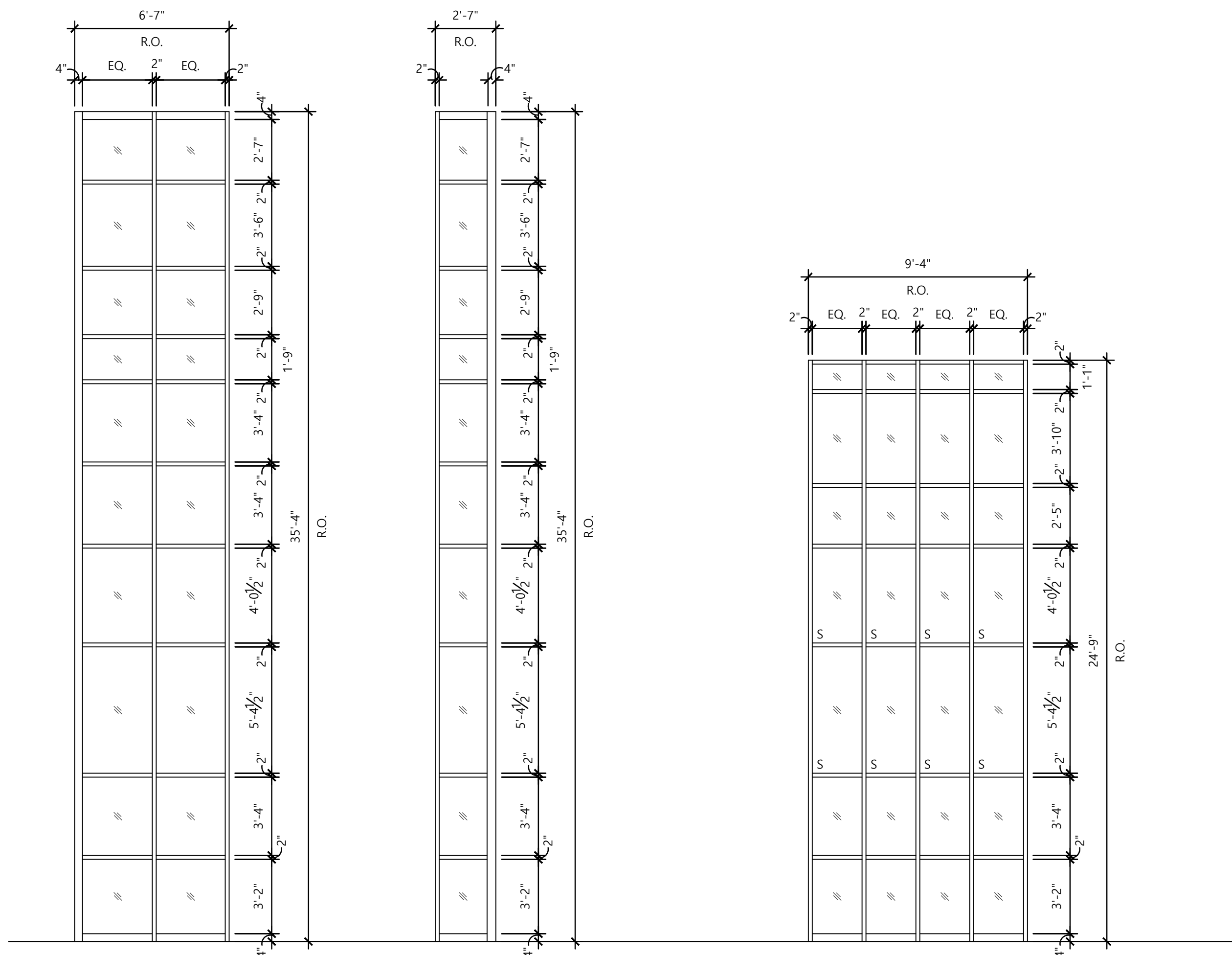
EXTERIOR WALL SECTIONS & DETAILS



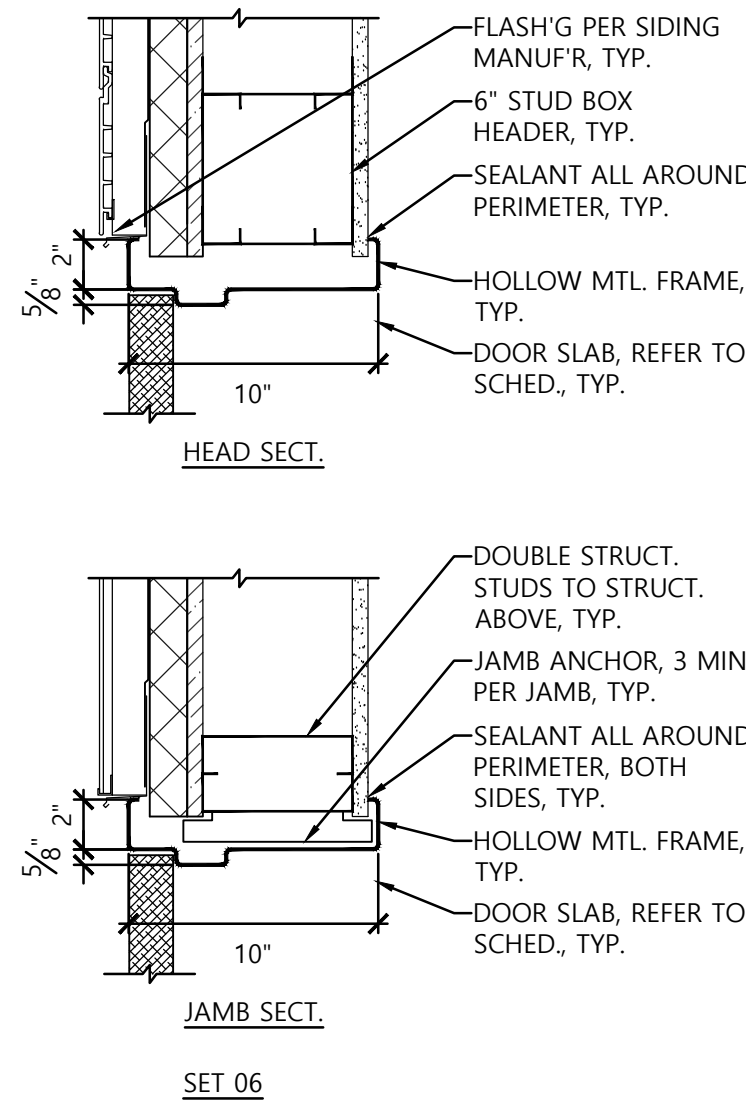
1 WINDOW ELEV. "A" Scale: 1/4" = 1'-0"
2 WINDOW ELEV. "B" Scale: 1/4" = 1'-0"
3 WINDOW ELEV. "G" Scale: 1/4" = 1'-0"
4 STOREFRONT ELEV. "C" Scale: 1/4" = 1'-0"
5 STOREFRONT ELEVATION "E" Scale: 1/4" = 1'-0"



6 STOREFRONT ELEV. "D" Scale: 1/4" = 1'-0"
7 STOREFRONT ELEVATION "H" Scale: 1/4" = 1'-0"



8 STOREFRONT ELEV. "K" Scale: 1/4" = 1'-0"
9 STRFNT. ELEV. "J" Scale: 1/4" = 1'-0"
10 STOREFRONT ELEV. "F" Scale: 1/4" = 1'-0"



11 HEAD & JAMB DETAIL SETS Scale: 1 1/2" = 1'-0"

WINDOW SCHEDULE										
SYMBOL	MANUF.	CAT./MOD. NO.	ELEV.	STYLE	MATERIAL	FINISH	ROUGH/MASONRY OPENING (WxH)	GLAZING	REMARKS	
A	KAWNEER	8225TL WINDOW	1/A10.2	FIXED	ALUM.	ANOD.	9'-8" x 6'-8"	1" INSUL.	HORIZ. STACKED	
B	KAWNEER	8225TL WINDOW	2/A10.2	FIXED	ALUM.	ANOD.	6'-4" x 6'-8"	1" INSUL.	HORIZ. STACKED	
C	KAWNEER	4511 STOREFRONT	4/A10.2	SCR.SP.	ALUM.	ANOD.	6'-10" x 14'-11 1/4"	1" INSUL.		
D	KAWNEER	4511 STOREFRONT	6/A10.2	SCR.SP.	ALUM.	ANOD.	12'-0" x 9'-8"	1" INSUL.		
E	KAWNEER	4511 STOREFRONT	5/A10.2	SCR.SP.	ALUM.	ANOD.	20'-0" x 14'-11 1/4"	1" INSUL.		
F	KAWNEER	4511 STOREFRONT	10/A10.2	SCR.SP.	ALUM.	ANOD.	9'-4" x 24'-9"	1" INSUL.		
G	KAWNEER	8225TL WINDOW	3/A10.2	FIXED	ALUM.	ANOD.	6'-4" x 2'-8"	1" INSUL.	HORIZ. STACKED	
H	KAWNEER	4511 STOREFRONT	7/A10.2	SCR.SP.	ALUM.	ANOD.	49'-6" x 12'-0"	1" INSUL.		
J	KAWNEER	4511 STOREFRONT	9/A10.2	SCR.SP.	ALUM.	ANOD.	2'-7" x 35'-4"	1" INSUL.		
K	KAWNEER	4511 STOREFRONT	8/A10.2	SCR.SP.	ALUM.	ANOD.	6'-7" x 35'-4"	1" INSUL.		
NOTES:										
1. KAWNEER 4511 SCREW SPLINE STOREFRONT FRAMING SYSTEM TO HAVE #40 DARK BRONZE ANODIZED FINISH.										
2. KAWNEER 8225TL WINDOWS TO HAVE #40 DARK BRONZE ANODIZED FINISH.										
3. INSULATED GLASS UNITS TO BE VIRAON 1" INSULATED GLASS ARGON FILLED UNITS (VUE1-30) WITH A VLT OF 31%, SUMMER U-VALUE OF 0.20 & SHGC OF 0.17.										
4. PROVIDE TEMPERED FLOAT GLASS PANES WHERE REQUIRED BY CODE.										
5. "S" INDICATES SPANDREL GLASS UNIT.										
6. VERIFY ALL ROUGH OPENINGS IN THE FIELD PRIOR TO WINDOW FABRICATION.										

ROOM FINISH SCHEDULE										
NO.	ROOM	CEILING	WALL	FLOOR	DOORS	OTHER	REMARKS			
		HGT	BASE		FRAMES	DOORS				
100	VESTIBULE	E.T.S. 15'-9"	P-1	WB-1	PCT-1	ALUM.	ALUM.			NOTE #3
103	OFFICE	ACT-1 8'-0"	P-1	WB-1	CPT-1	P-2	WS-1			
105	APPAREL & STORAGE	ACT-1 8'-0"	P-1	WB-1	CPT-1	P-2	WS-1			
109	KITCHETTE	ACT-1 8'-0"	P-1	WB-1	RF-1	P-2	WS-1			
111	CORRIDOR	ACT-1 8'-0"	P-1	WB-1	CPT-1	P-2	WS-1			NOTE #2
112	UNISEX	E.T.R. 8'-0"	CT-1	PCT-1	PCT-1	E.T.R.	TP-1			NOTE #4
113	CORRIDOR	ACT-1 8'-0"	P-1	WB-1	CPT-1	P-2	WS-1			NOTE #2
114	WOMEN'S	E.T.R. 8'-0"	CT-1	PCT-1	PCT-1	E.T.R.	TP-1			NOTE #4
116	MEN'S	E.T.R. 8'-0"	CT-1	PCT-1	PCT-1	E.T.R.	TP-1			NOTE #4
122	OFFICE	ACT-1 8'-0"	P-1	WB-1	CPT-1	P-2	WS-1			
123	CORRIDOR	E.T.R. 8'-0"	E.T.R.	WB-1	RF-1	E.T.R.	E.T.R.			
124	LUNCH ROOM	E.T.R. 8'-0"	E.T.R.	WB-1	RF-1	E.T.R.	E.T.R.			
130	STORAGE	E.T.R. 8'-0"	E.T.R.	WB-1	RF-1	E.T.R.	E.T.R.			
134	CORRIDOR	E.T.R. 8'-0"	E.T.R.	WB-1	RF-1	E.T.R.	E.T.R.			
135	CONFERENCE ROOM	E.T.R. 8'-0"	E.T.R.	WB-1	RF-1	E.T.R.	E.T.R.			
136	MEN'S	E.T.R. 8'-0"	CT-1	PCT-1	PCT-1	E.T.R.	TP-1			NOTE #4
140	WOMEN'S	E.T.R. 8'-0"	CT-1	PCT-1	PCT-1	E.T.R.	TP-1			NOTE #4
S-1	STAIR	ACT-2 25'-9"	P-1	WB-1	RF-1	P-2	P-2			
S-2	STAIR	ACT-2 24'-9"	P-1	WB-1	RF-1	P-2	P-2			
200	BALCONY	E.T.S. 15'-9"	N/A	N/A	CONC.	ALUM.	ALUM.			
201	CONFERENCE ROOM	ACT-2 9'-0"	P-1	WB-1	CPT-2	P-2	WS-1			
202	MEN'S	ACT-2 8'-0"	CT-1	PCT-1	PCT-1	P-2	WS-1			
203	WOMEN'S	ACT-2 8'-0"	CT-1	PCT-1	PCT-1	P-2	WS-1			
204	KITCHENETTE	ACT-2 8'-0"	P-1	WB-1	RF-1	P-2	WS-1			
NOTES:										
1. FINISHES IN ROOMS NOT SCHEDULED ARE EXISTING TO REMAIN.										
2. REFER TO REFLECTED CEILING PLAN FOR EXTENT OF NEW CEILING WORK.										
3. MATCH EXIST. FLOOR TILE IN FOYER 101										
4. NEW CERAMIC WALL TILE WAINSCOT TO MATCH HEIGHT OF DEMOLISHED TILE WAINSCOT. P-1 FINISH ABOVE.										
5. E.T.R.: EXISTING FINISH TO REMAIN - NO NEW WORK.										
6. E.T.S.: EXPOSED TO STRUCTURE.										
7. P-1: SHERWIN WILLIAMS, COLOR TO BE SELECTED, EGGSHELL FINISH.										
8. P-2: SHERWIN WILLIAMS, COLOR TO BE SELECTED, SEMI-GLOSS FINISH.										
9. WS-1: PRE-FINISHED WOOD STAIN FINISH, COLOR TO BE SELECTED.										
10. ACT-1: REINSTALL SALVAGED CEILING & OWNER'S ATTIC STOCK. PROVIDE NEW PRELUDE XL 15/16" WHITE GRID.										
11. ACT-2: ARMSTRONG PLAIN FISSURED, 2'x2' ACOUSTIC CEILING TILE, STYLE & COLOR TO BE SELECTED, WITH PRELUDE XL 15/16" WHITE GRID.										
12. CPT-1: PATCH / INFILL EXIST. CARPET TILE USING OWNER'S ATTIC STOCK.										
13. CPT-2: CARPET TILE, COLOR & PATTERN TO BE SELECTED.										
14. PCT-1: PORCELAIN CERAMIC FLOOR TILE, COLOR & PATTERN TO BE SELECTED.										
15. CT-1: GLAZED CERAMIC WALL TILE, COLOR & PATTERN TO BE SELECTED.										
16. RF-1: EPOXY TERRAZZO FLOORING, MATCH COLOR & PATTERN OF EXISTING.										
17. WB-1: JOHNSONITE 4" COVE BASE, COLOR TO BE SELECTED.										
18. TP-1: OVERHEAD BRACED COLOR-THRU PHENOLIC TOILET PARTITIONS & SCREENS, COLOR & PATTERN TO BE SELECTED.										
19. COORDINATE WITH OWNER FOR ACCENT COLOR LOCATIONS.										
20. DRAWN DOWNS REQUIRED FOR ALL PAINT COLORS.										

MARK	DATE	DESCRIPTION
1	08/28/25	COORDINATION
2	10/23/25	FOR PERMIT

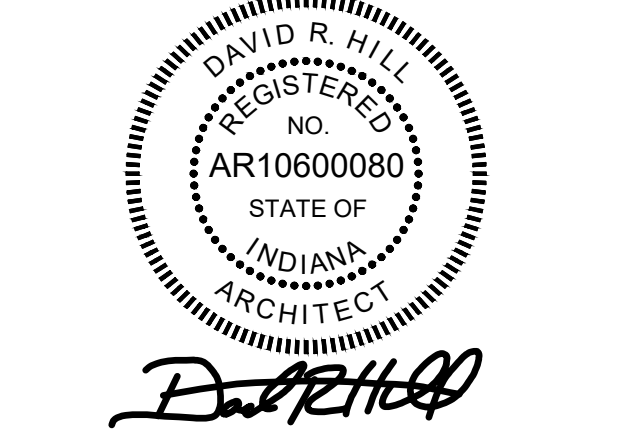


LABORER'S
INTERNATIONAL
UNION OF NORTH
AMERICA LOCAL #41

UNION HALL
RENOVATION - 2025

550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
1	07/30/25	OWNER REVIEW
2	08/13/25	SD APPROVAL
3	08/28/25	COORDINATION
4	10/23/25	FOR PERMIT



STAIR
DETAILS

SCALE: 1/2"=1'-0" CLIENT: 096

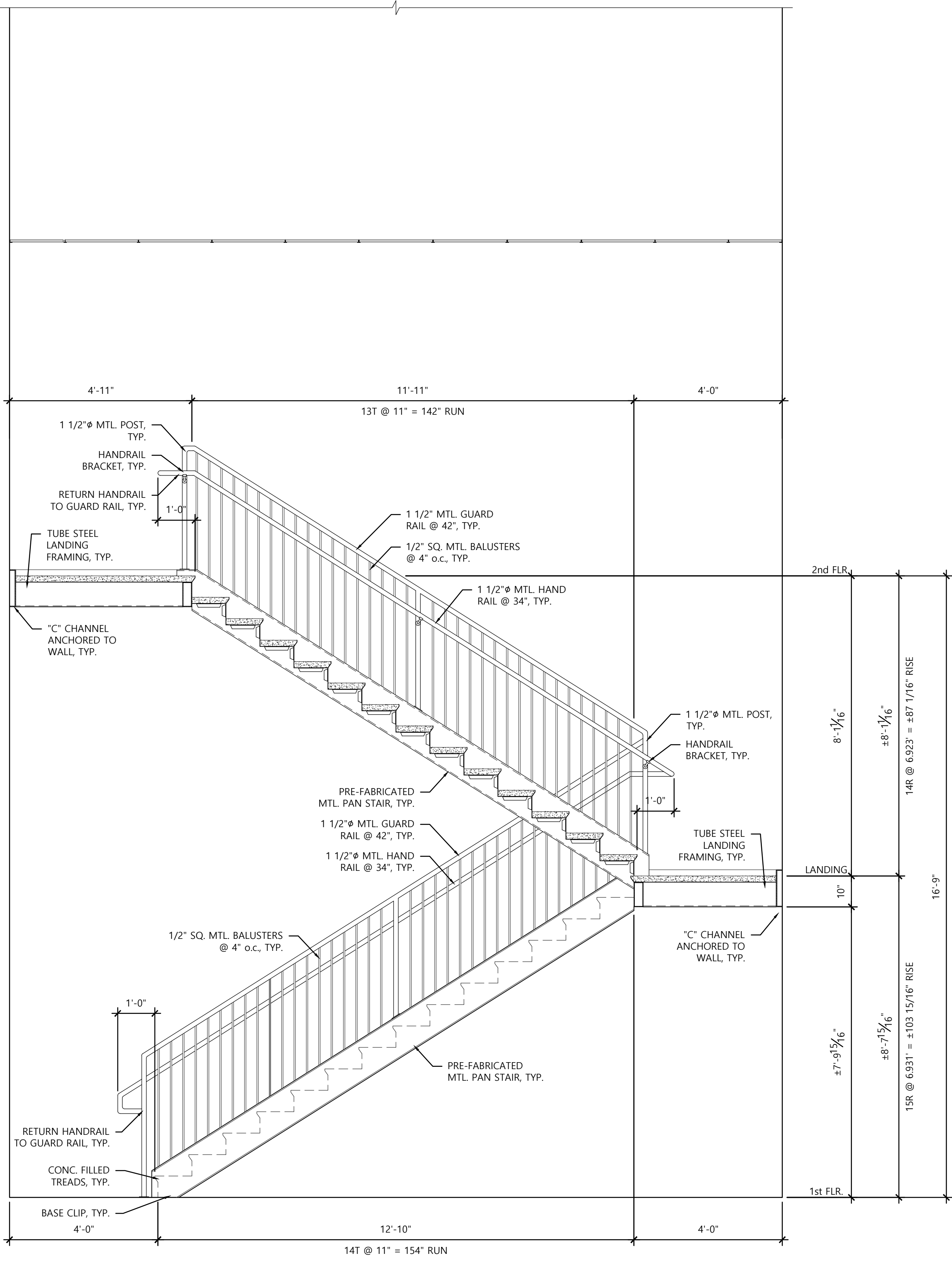
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DRAWN: DRH

APPRVD: DRH

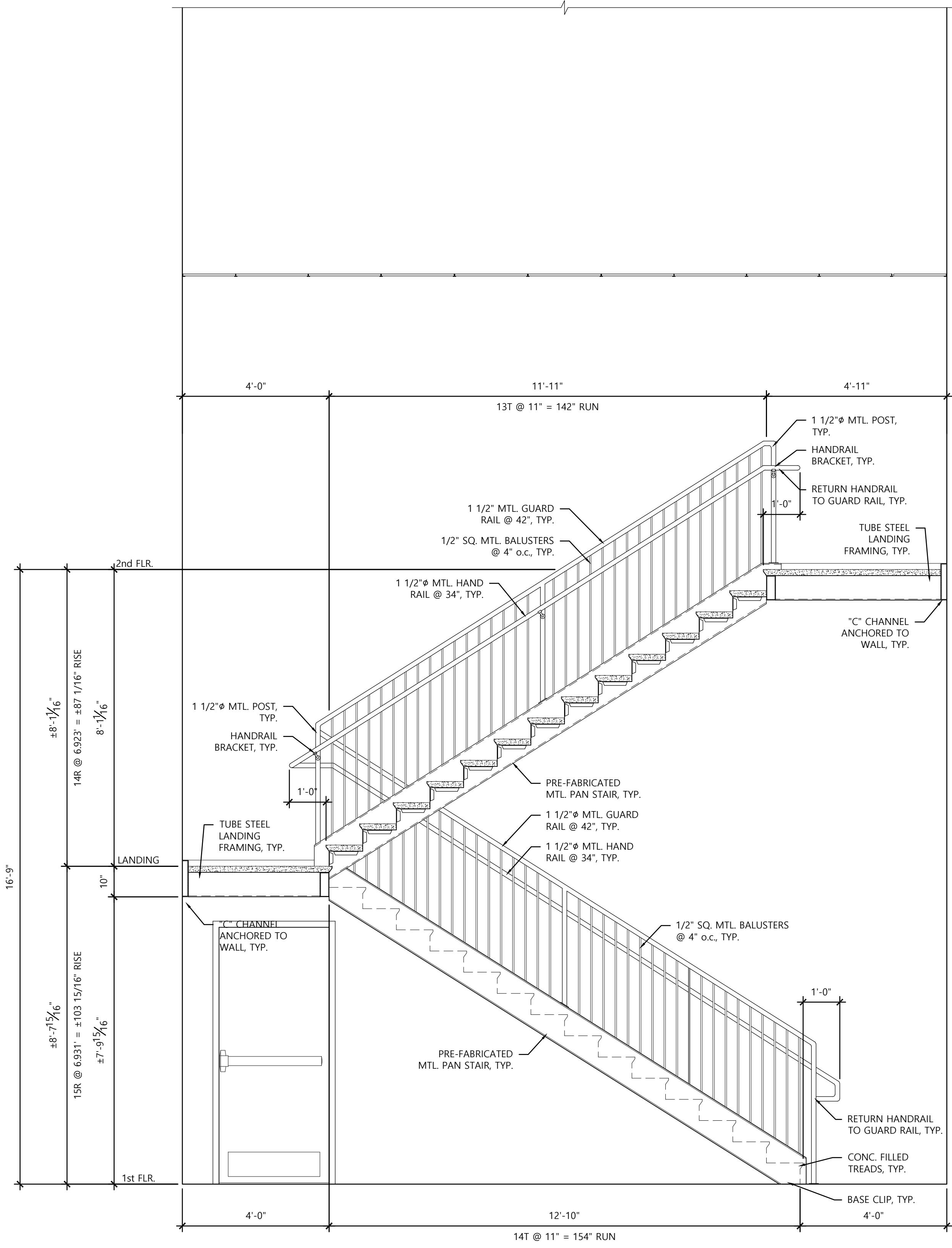
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1 STAIR SECTION - STAIR ST-1

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



2 STAIR SECTION - STAIR ST-2

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

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MARK	DATE	DESCRIPTION
	10/23/25	FOR PERMIT



FIRST FLOOR PLMG
DEMOLITION PLAN

SCALE: CLIENT: 096

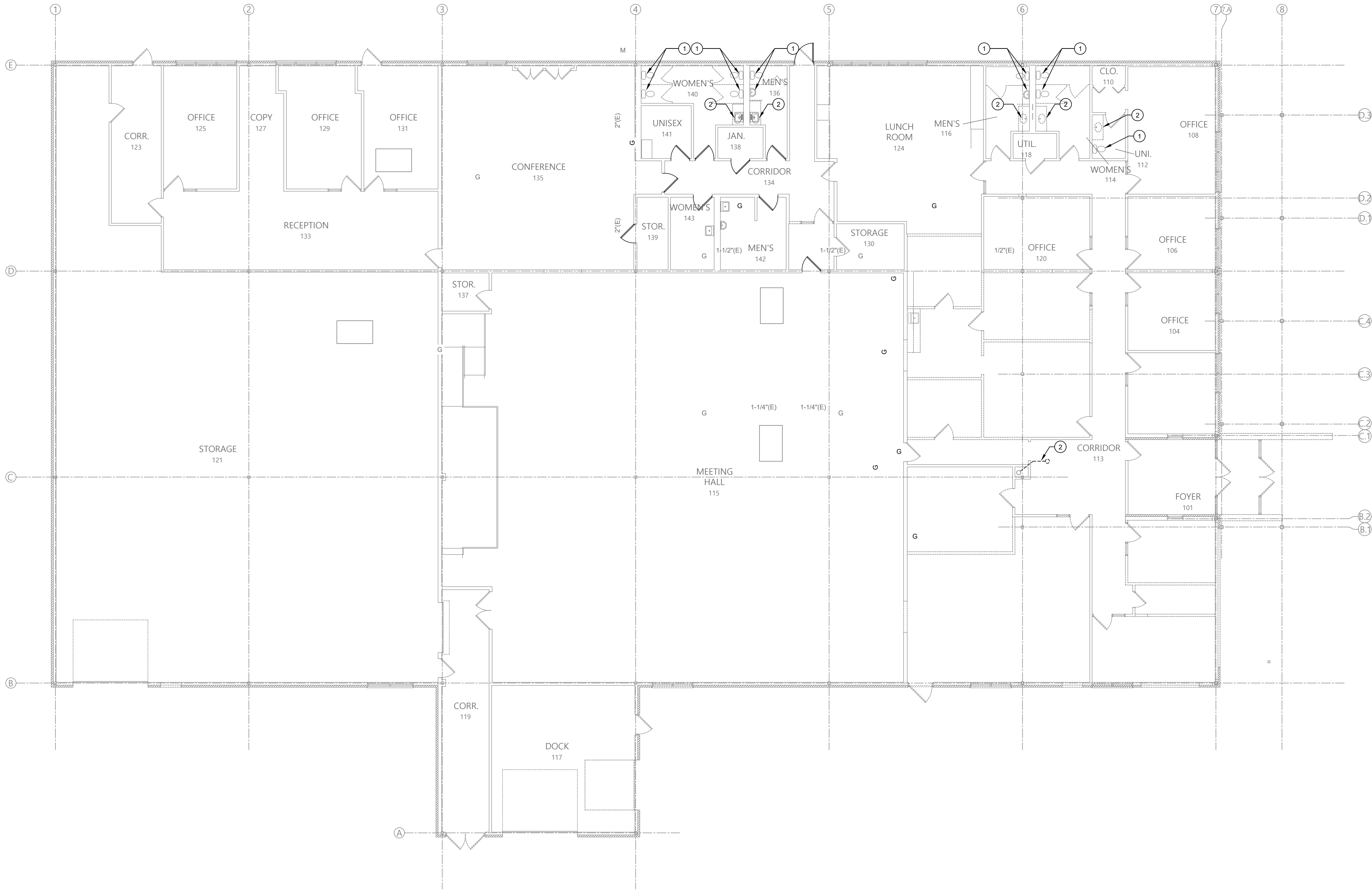
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DRAWN:

APPRVD: PD1.1

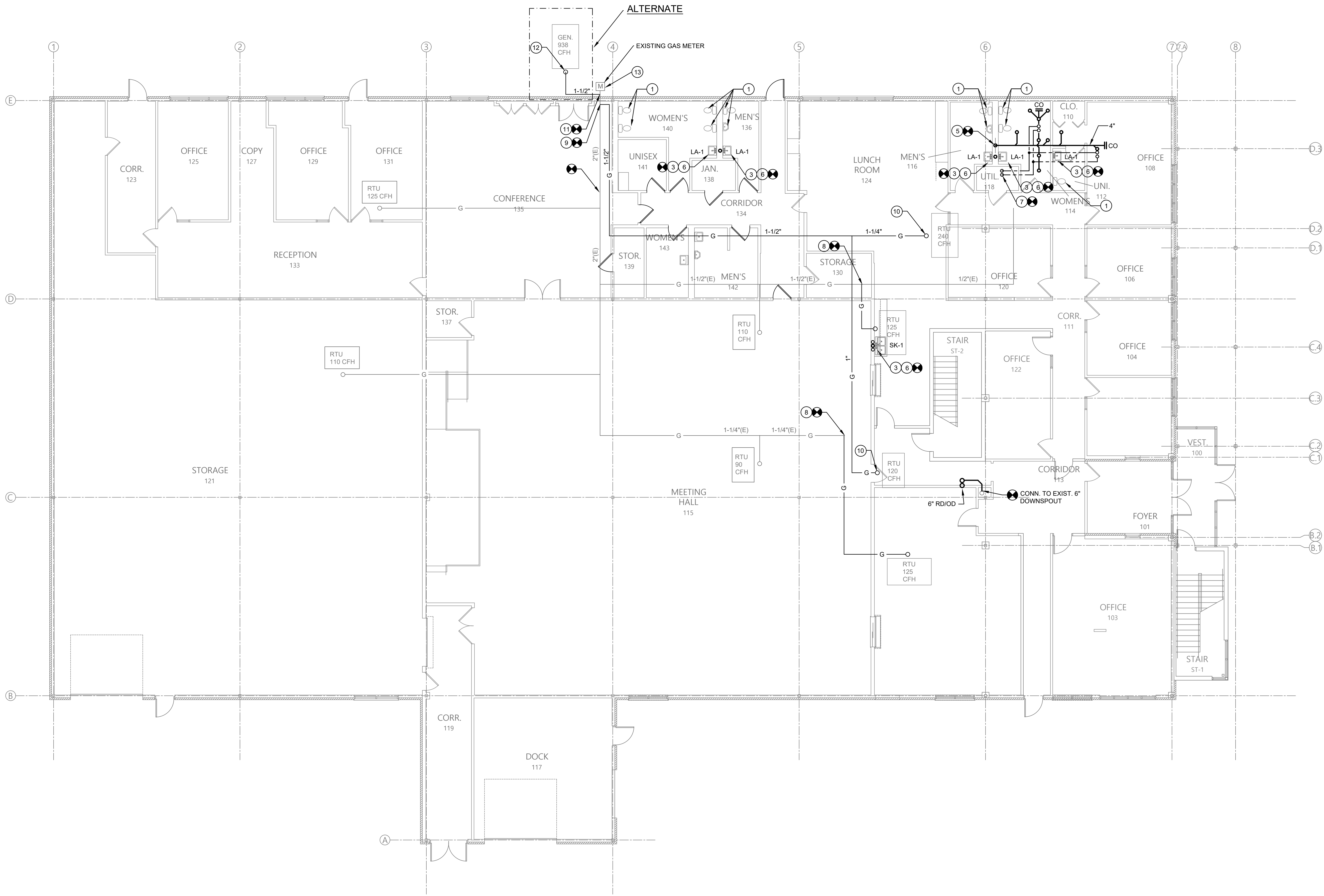
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- PLUMBING DEMOLITION PLAN
KEYNOTES:
1. REMOVE EXISTING PLUMBING FIXTURE AND TRIM AS REQUIRED FOR NEW ROOM FINISHES. SALVAGE FOR REINSTALLATION.
 2. REMOVE EXISTING LAVATORY, SUPPORT, AND TRIM IN ITS ENTIRETY.
 3. REMOVE EXISTING LAVATORY, SUPPORT, AND TRIM IN ITS ENTIRETY.
 4. DISCONNECT AND REMOVE EXISTING ROOF DRAIN. PREPARE PIPING FOR RECONNECTION TO NEW ROOF DRAIN.



1 FIRST FLOOR PLUMBING PLAN

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



- PLUMBING PLAN KEYNOTES:
1. REINSTALL EXISTING PLUMBING FIXTURE AND RELATED SUPPORT AND TRIM.
 2. 3" W. & 2" V., 1-1/4" CW TO WC.
 3. 1-1/2" W. & V., 1/2" CW & HW TO LAV/SK.
 4. 2" W., 1-1/2" V., 3/4" CW TO UR.
 5. CONNECT NEW 4" WASTE TO EXISTING 4" WASTE BELOW FIRST FLOOR SLAB. FIELD VERIFY LOCATION.
 6. CONNECT NEW LA TO EXISTING WASTE AND SUPPLY PIPING IN WALL.
 7. CONNECT NEW 3/4" CW & HW TO EXISTING 1" CW AND 1" HW IN UTILITY CLOSET.
 8. RECONNECT TO EXISTING 1" (FIELD VERIFY) GAS PIPING AT RELOCATED ROOFTOP UNIT.
 9. CONNECT TO EXISTING 2" GAS AT BUILDING ENTRY.
 10. CONNECT GAS PIPING TO NEW ROOFTOP UNIT WITH UNION, SHUT-OFF VALVE, AND DIRT LEG.
 11. CONNECT TO EXISTING 2" GAS PIPING OUTSIDE AT GAS METER. ROUTE 1-1/2" PIPING TO NEW GENERATOR.
 12. CONNECT TO NEW GENERATOR WITH SHUT-OFF, UNION, DIRT LEG, AND AS REQUIRED BY THE GENERATOR MANUFACTURER.
 13. COORDINATE NEW GAS LOAD REQUIREMENTS WITH LOCAL UTILITY COMPANY.
NEW LOAD: 1045 CFH AT 7" W.C.
NEW LOAD WITH ALTERNATE: 1973 CFH AT 7" W.C.

1 FIRST FLOOR PLUMBING PLAN

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

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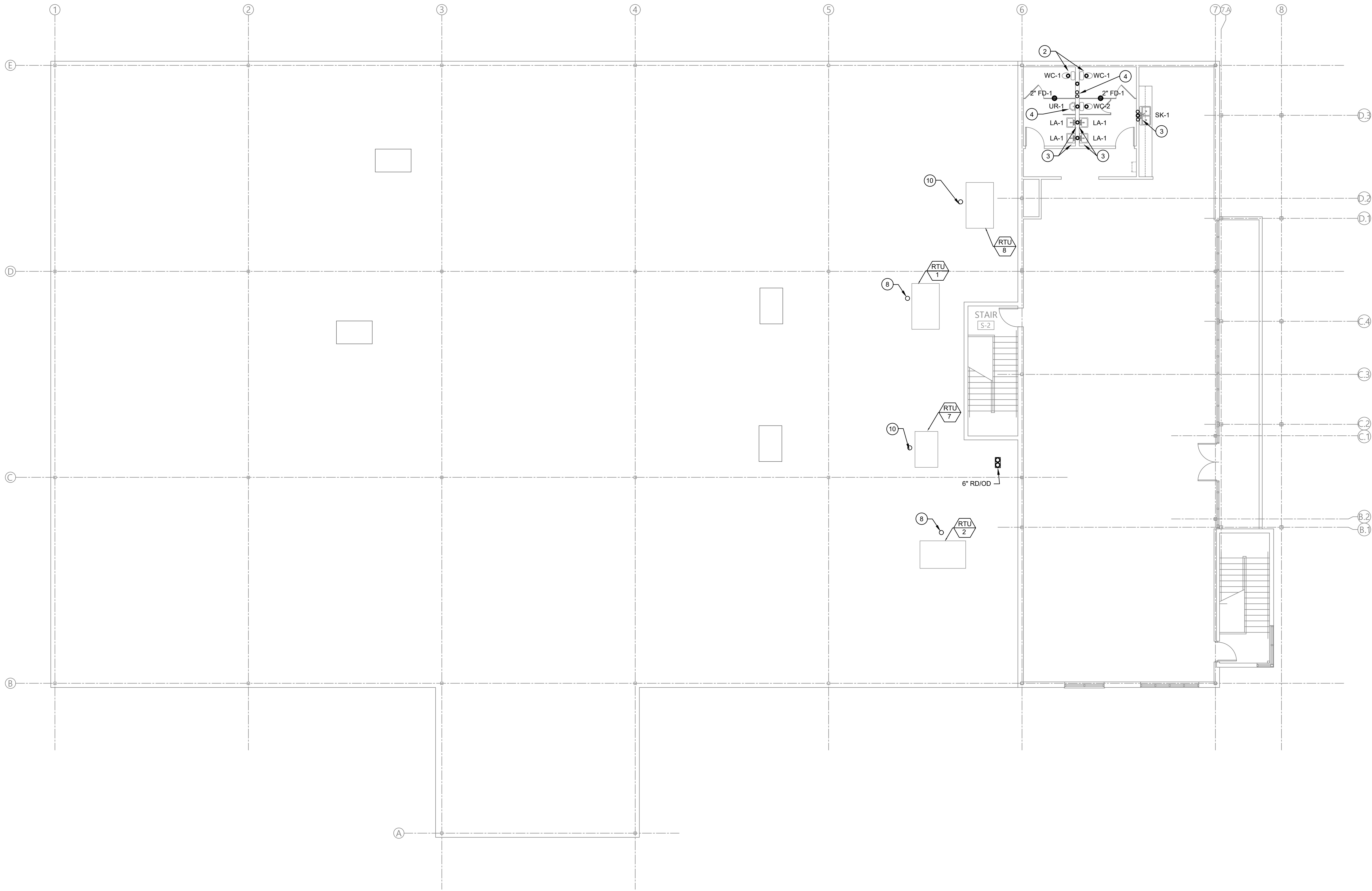
UNION HALL
RENOVATION - 2025

550 SUPERIOR AVE.,
MUNSTER, IN, 46321

MARK	DATE	DESCRIPTION
	10/23/25	FOR PERMIT



FIRST FLOOR
PLUMBING PLAN



○ PLUMBING PLAN KEYNOTES:

1. REINSTALL EXISTING PLUMBING FIXTURE AND RELATED SUPPORT AND TRIM.
2. 3" W. & 2" V., 1-1/4" CW TO WC.
3. 1-1/2" W. & V., 1/2" CW & HW TO LAV/SK.
4. 2" W., 1-1/2" V., 3/4" CW TO UR.
5. CONNECT NEW 4" WASTE TO EXISTING 4" WASTE BELOW FIRST FLOOR SLAB. FIELD VERIFY LOCATION.
6. CONNECT NEW LA TO EXISTING WASTE AND SUPPLY PIPING IN WALL.
7. CONNECT NEW 3/4" CW & HW TO EXISTING 1" CW AND 1" HW IN UTILITY CLOSET.
8. RECONNECT TO EXISTING 1" (FIELD VERIFY) GAS PIPING AT RELOCATED ROOFTOP UNIT.
9. CONNECT TO EXISTING 2" GAS AT BUILDING ENTRY.
10. CONNECT GAS PIPING TO NEW ROOFTOP UNIT WITH UNION, SHUT-OFF VALVE, AND DIRT LEG.

ALTERNATE

11. CONNECT TO EXISTING 2" GAS PIPING OUTSIDE AT GAS METER. ROUTE 1-1/2" PIPING TO NEW GENERATOR.
12. CONNECT TO NEW GENERATOR WITH SHUT-OFF, UNION, DIRT LEG, AND AS REQUIRED BY THE GENERATOR MANUFACTURER.
13. COORDINATE NEW GAS LOAD REQUIREMENTS WITH LOCAL UTILITY COMPANY.
NEW LOAD: 1045 CFH AT 7" W.C.
NEW LOAD WITH ALTERNATE: 1973 CFH AT 7" W.C.

1 SECOND FLOOR PLUMBING PLAN

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

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UNION HALL
RENOVATION - 2025

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MARK	DATE	DESCRIPTION
	10/23/25	FOR PERMIT



SECOND FLOOR
PLUMBING PLAN

SCALE: CLIENT: 096

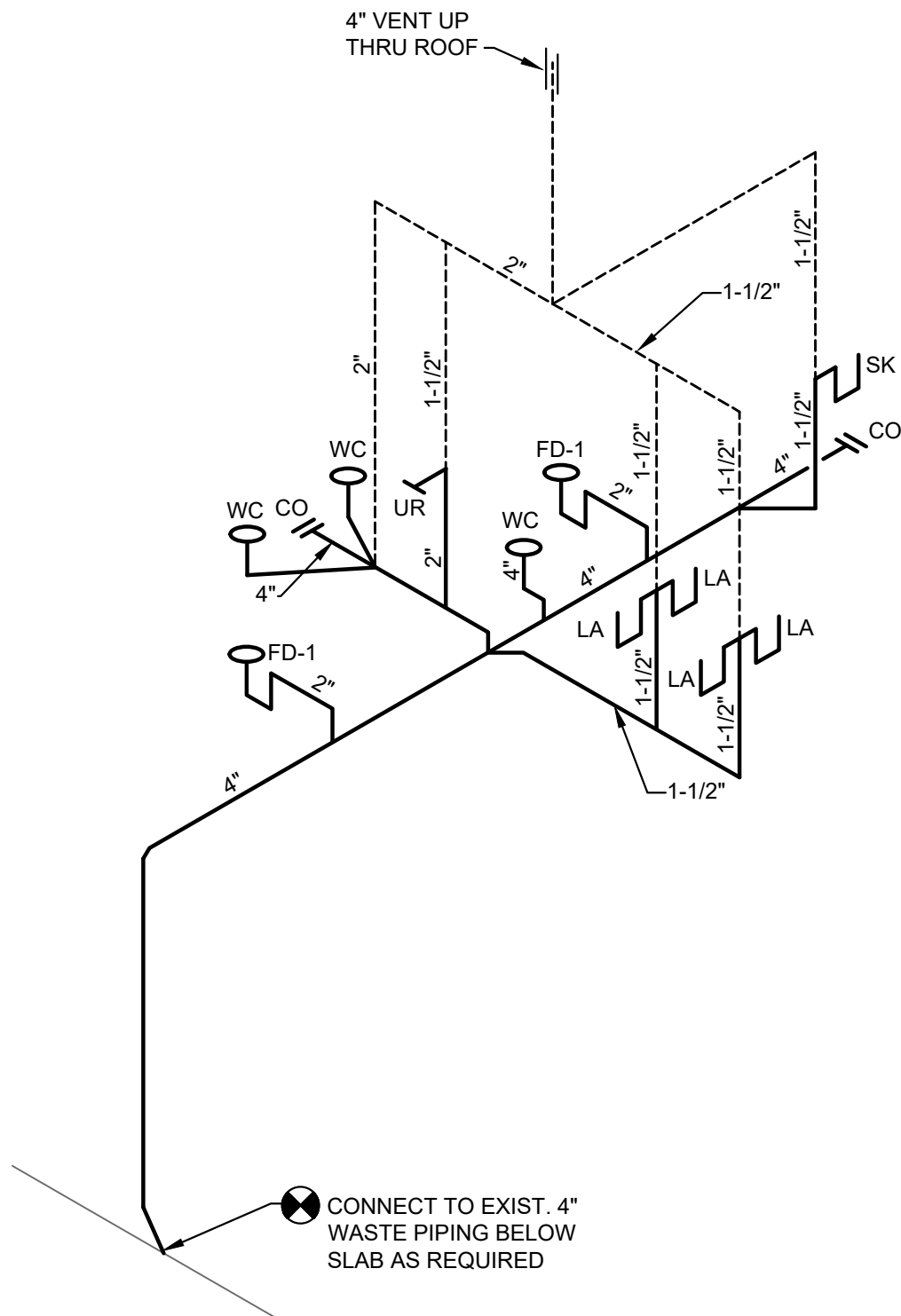
DATE: 06/24/25 PROJECT: 096001

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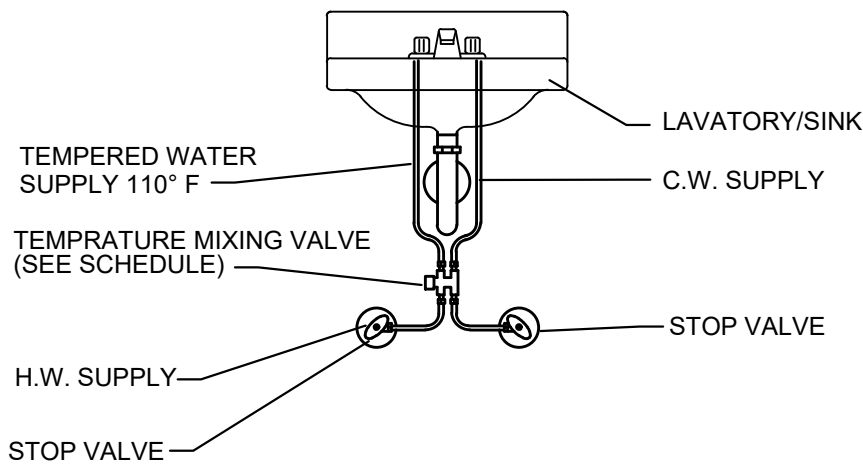


SANITARY SCHEMATICS
NOT TO SCALE

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE			
ITEM NO.	FIXTURE	MANUFACTURER AND MODEL	DESCRIPTION AND TRIM / ACCESSORIES
WC-1	WATER CLOSET (ADA)	AMERICAN STANDARD "CADET" MODEL 215AA	FLUSH TANK, FLOOR MOUNT, VITREOUS CHINA, PRESSURE ASSISTED, ELONGATED BOWL, 1.6 GPF, COLOR MATCHED OPEN FRONT SEAT WITHOUT LID, BRAIDED CLOSET SUPPLY, ANGLE STOP, ESCUTCHEON. COLOR WHITE. 16-1/2" RIM HEIGHT.
WC-2	WATER CLOSET	AMERICAN STANDARD "CADET PRO" MODEL 215CA.004	FLUSH TANK, FLOOR MOUNT, VITREOUS CHINA, PRESSURE ASSISTED, ELONGATED BOWL, 1.6 GPF, COLOR MATCHED OPEN FRONT SEAT WITH LID, BRAIDED CLOSET SUPPLY, ANGLE STOP, ESCUTCHEON. COLOR WHITE. STANDARD 15" RIM HEIGHT.
LA-1	LAVATORY (ADA)	AMERICAN STANDARD "LUCERNE" MODEL 0355, 7385.004, WATTS LFUSG-B-M2	WALL HUNG, VITREOUS CHINA, NOMINAL 21"x18", SELF-RIMMING, FRONT OVERFLOW, 4" FAUCET CENTERS, SINGLE LEVER FAUCET WITH 4" CENTERS, GRID DRAIN, SUPPLY FITTINGS AND STOPS, WALL CARRIER, AND PROFLO LAVGUARD PIPE INSULATION KIT. UNDER LAVATORY THERMOSTATIC MIXING VALVE.
UR-1	URINAL (ADA)	AMERICAN STANDARD "WASHBROOK FLOWISE" MODEL 6590.011, SLOAN G2 8186-1.0	FLUSH VALVE, WALL HUNG, VITREOUS CHINA, WHITE, 0.125 - 1.0 GPF, TOP SPUD, ULTRA HIGH EFFICIENCY, MANUAL OPERATED FLUSH VALVE, COLOR WHITE. 15" RIM HEIGHT.
SK-1	DOUBLE BOWL S.S. SINK	DAYTON D13322, DELTA 100-DST LF	DOUBLE BOWL, 22 GA. STAINLESS STEEL DROP IN SINK, NOMINAL 33"x22"x6.5". PROVIDE WITH COUNTER MTD. FAUCET WITH SINGLE LEVER HANDLE AND 9" SWING SPOUT, 8" CENTERS, 1.0 GPM AERATOR, STRAINER, DRAIN ASSEMBLY, SUPPLY FITTINGS AND STOPS.
FD-1	FLOOR DRAIN	SIOUX CHIEF 832 SERIES	PLASTIC ROUND FLOOR DRAIN, ADJUSTABLE TOP, NICKEL BRONZE VENEER TOP, INTEGRAL P-TRAP AND CLEANOUT, WITH "SURESEAL" TRAP SEALER.
RD/OD	ROOF DRAIN / OVERFLOW DRAIN	SIOUX CHIEF 867 SERIES	NO-HUB, CAST IRON, COMBINATION ROOF DRAIN WITH OVERFLOW, 2" WATER DAM ON OVERFLOW, ENAMEL COATED CAST IRON DOME AND GRAVEL GUARD.
TMV	THERMOSTATIC MIXING VALVE	WATTS LFUSG-B-M2	SINGLE FIXTURE, UNDER SINK MIXING VALVE, 0.25 GPM TO 2.25 GPM @ MIN. 30 PSI, LEAD FREE BRASS BODY, ASSE 1070 AND WPMO CUP LISTED AND APPROVED WITH DUAL CHECKS AND SHUT-OFF VALVES, 3/8" INLET AND OUTLET CONNECTIONS. INSTALL AT EACH SINK AND LAVATORY.

- PLUMBING FIXTURE INSTALLATION NOTES:
1. VERIFY WALLS AND FLOOR FINISHES ARE PREPARED AND READY FOR INSTALLATION OF FIXTURES.
 2. ROUGH-IN FIXTURE PIPING CONNECTIONS IN ACCORDANCE WITH MINIMUM SIZES INDICATED IN FIXTURE ROUGH-IN SCHEDULE FOR PARTICULAR FIXTURES.
 3. INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICING AND CLEANING.
 4. INSTALL COMPONENTS LEVEL AND PLUMB.
 5. INSTALL AND SECURE FIXTURES IN PLACE WITH WALL CARRIERS AND BOLTS.
 6. SEAL FIXTURES TO WALL AND FLOOR SURFACES WITH SEALANT, COLOR TO MATCH FIXTURE.
 7. SOLIDLY ATTACH WATER CLOSETS TO FLOOR WITH LAG SCREWS.
 8. FOR ADA ACCESSIBLE WATER CLOSETS, INSTALL FLUSH VALVE WITH HANDLE TO WIDE SIDE OF STALL.

TYPICAL PLUMBING FIXTURE CONNECTION SCHEDULE						
MARK	DESCRIPTION	WASTE	VENT	CW	HW (120°F)	HW (140°F)
WC	WATER CLOSET (FLUSH TANK)	3"	2"	1/2"	N/A	N/A
UR	URINAL	2"	1-1/2"	1/2"	N/A	N/A
LA	LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"	N/A
SK	SINK	1-1/2"	1-1/2"	1/2"	1/2"	N/A
MSB	MOP SERVICE BASIN	3"	1-1/2"	1/2"	1/2"	N/A



TEMPERATURE MIXING VALVE DETAIL
NOT TO SCALE

MARK	DATE	DESCRIPTION
	10/23/25	FOR PERMIT



PACKAGED ROOFTOP UNIT SCHEDULE																
MARK	AREA SERVED	CFM	MIN. OA (CFM)	DX COOLING COIL	GAS HEAT		ELECTRICAL							E.E.R. S.E.E.R.	MANUFACTURER MODEL	NOTES
				NOMINAL TOTAL MBH	MBH INPUT	MBH OUTPUT	SA FAN E.S.P.	SA FAN BHP	SA FAN MOTOR HP	EA FAN E.S.P.	EA FAN MOTOR HP	MCA	MOP	PHASE-VOLT		
RTU-1	WEST EXTERIOR (EXISTING RELOCATED)	1,900	190	60.0	125	100	1.00"	---	1.0	---	---	27.5	35	3-208	YORK ZF060N10	6
RTU-2	EAST EXTERIOR (EXISTING RELOCATED)	1,900	190	60.0	125	100	1.00"	---	1.0	---	---	27.5	35	3-208	YORK ZF060H12	6
RTU-7	INTERIOR	1,100	110	36.0	120	97	1.00"	---	0.75	---	---	25	35	3-208	TRANE "PRECEDENT" YSK036	1 THRU 10
RTU-8	SECOND FLOOR	4,000	780	120.0	240	194	1.00"	---	3.0	---	---	60	80	3-208	TRANE "PRECEDENT" YHK120	1 THRU 11

RTU-7&8 NOTES:

1. PROVIDE 2" THICK, MERV 8 THROWAWAY FILTERS.
2. DIRECT VARIABLE SPEED FAN.
3. HIGH GAS HEAT, STAGED.
4. COMP. ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF.
5. R-454B REFRIGERANT.
6. COOLING CAPACITIES BASED ON 80°F EDB/67°F EWB AND 95°F OUTSIDE DESIGN TEMPERATURE.
7. CONVERTIBLE DISCHARGE AND RETURN.
8. 7-DAY PROGRAMMABLE THERMOSTAT, WI-FI CAPABLE.
9. 14" HIGH ROOF CURB.
10. WITH HOT-GAS REHEAT.
11. WITH RETURN AIR SMOKE DETECTOR.

GRILLE AND DIFFUSER SCHEDULE					
TAG	MODEL	TYPE	FACE SIZE	NECK SIZE	NOTES
A	TMS	SUPPLY	24" X 24"	SEE PLAN	LOUVER FACE
B	TMS	SUPPLY	12" X 12"	SEE PLAN	LOUVER FACE
C	50F	RETURN/ EXHAUST	SEE PLAN	SEE PLAN	EGG CRATE, FOR DUCTED INSTALLATION
D	S300FL	SUPPLY	SEE PLAN	-	SPIRAL DUCT MOUNTED WITH EXTRACTOR 60" DISCHARGE
E					EXIST. TO REMAIN
F	300RL	SUPPLY	SEE PLAN	-	WALL MOUNTED STEEL CONSTRUCTION
G	350RL	RETURN	SEE PLAN	-	WALL / DUCT MOUNTED STEEL CONSTRUCTION

NOTES:

1. MODEL BASED ON TITUS.
2. COORDINATE DIFFUSER TRIM/FRAME WITH CEILING MATERIALS AND CONSTRUCTION.
3. PROVIDE ALL GRILLES AND DIFFUSERS INSTALLED IN HARD, NON-ACCESSIBLE CEILINGS, WITH VOLUME DAMPERS AND PLENUMS AS REQUIRED.
4. DIFFUSERS "D" AND "G": SEE TYPICAL ROUND DUCT DIFFUSER DETAIL.



MINI-SPLIT INDOOR UNIT SCHEDULE														MINI-SPLIT OUTDOOR UNIT SCHEDULE													
UNIT NO.	LOCATION	MODEL	QTY	CFM (ON HIGH)	EXT. S.P.	DX COOLING COIL	HEATING CAPACITY			ELECTRICAL			REMARKS	UNIT NO.	MODEL	QTY.	COOLING CAPACITY		ELECTRICAL			REFRIG. LIQUID	SEER	REFRIG. SUCTION	REMARKS		
						NOMINAL TOTAL MBH	(MBH AT 47° F)	HSPF	MCA	MPS	MOTOR PHASE F.L.A.	VOLT					NOMINAL TONS	INDOOR UNIT	MCA	MOP	PHASE VOLT						
MSI-1	STAIR 1	SLZ-KF12NA	1	317	0.10"	12.0	13.0	11.4	0.3	--	0.24	1-115	CEILING CASSETTE	MSO-1	SUZ-KA12NA2	1	1.0	MSI-1	9.0	16	1-208	R-410A	22	1/4"	3/8"		
NOTES: UNIT SELECTION BASED ON MITSUBISHI MSY SERIES SYSTEM. REGARDING ALL UNITS: 1. COOLING CAPACITIES BASED ON 80°F EDB/67°F EWB AND 45°F ENT. SATURATION TEMPERATURE. 2. PROVIDE MWK-1 WIRELESS REMOTE CONTROLLER. 3. PROVIDE WITH INTEGRAL CONDENSATE PUMP. PUMP CONDENSATE TO MOP BASIN AT UTILITY ROOM. 4. PROVIDE WITH ALL REQUIRED REFRIGERATION SPECIALTIES AND LINE SETS.														HEAT PUMP UNIT NOTES: REGARDING ALL UNITS: 1. PROVIDE WITH REFRIGERANT LINE SET. 2. INSTALL UNIT ON EQUIPMENT CURBS ON ROOF. 3. PROVIDE WITH LOW AMBIENT KIT.													

HVAC GENERAL NOTES

- A. THE INTENT OF THESE DRAWINGS ARE FOR THE CONTRACTOR TO PROVIDE A COMPLETE MECHANICAL INSTALLATION. SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS INCLUDING OPERATIONAL, ADJUSTED, TESTED, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- B. CONTRACTOR SHALL REVIEW ALL DOCUMENTS, AND VISIT SITE, PRIOR TO SUBMITTING BID.
- C. INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS.
- D. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS AND RELATED FEES, INSPECTION, ETC. AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- F. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO INDICATE EVERY ELBOW, REDUCER, FITTING, ETC. THE DOCUMENT INDICATES THE GENERAL INTENT OF SYSTEM DESIGN AND WORK INCLUDED IN CONTRACT.
- G. COORDINATE LOCATIONS OF PIPING, EQUIPMENT, DUCTWORK, SUPPORT, WITH ALL BUILDING COMPONENTS AND RELATED TRADES.
- H. BEFORE INSTALLATION, COORDINATE CONNECTIONS TO AND REQUIREMENTS OF OWNER PROVIDED EQUIPMENT.
- I. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID LAYOUTS TO COORDINATE LOCATION OF ALL CEILING AIR DEVICES.
- J. THE ELECTRICAL CONTRACTOR SHALL RUN ALL POWER WIRING FOR MECHANICAL AND PLUMBING EQUIPMENT. CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- K. PROVIDE FACTORY AUTHORIZED START-UP OF ALL MAJOR EQUIPMENT, INCLUDING BUT NOT LIMITED TO, AIR HANDLING UNITS, PACKAGED ROOFTOP HEATING/COOLING UNITS, BOILERS, CHILLERS, PUMPS, ETC.
- L. WHERE APPLICABLE, CONTRACTOR SHALL PROVIDE NOTICE TO THE OWNER, SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY SHUT-DOWN OF EXISTING BUILDING SYSTEMS.
- M. CONTRACTOR SHALL, AT THE COMPLETION OF THE PROJECT, PROVIDE OWNER WITH "AS-BUILT" FLOOR PLANS AS WELL AS THREE (3) COPIES OF EQUIPMENT INSTALLATION, OPERATING, AND MAINTENANCE MANUALS.

HVAC AIR DISTRIBUTION NOTES

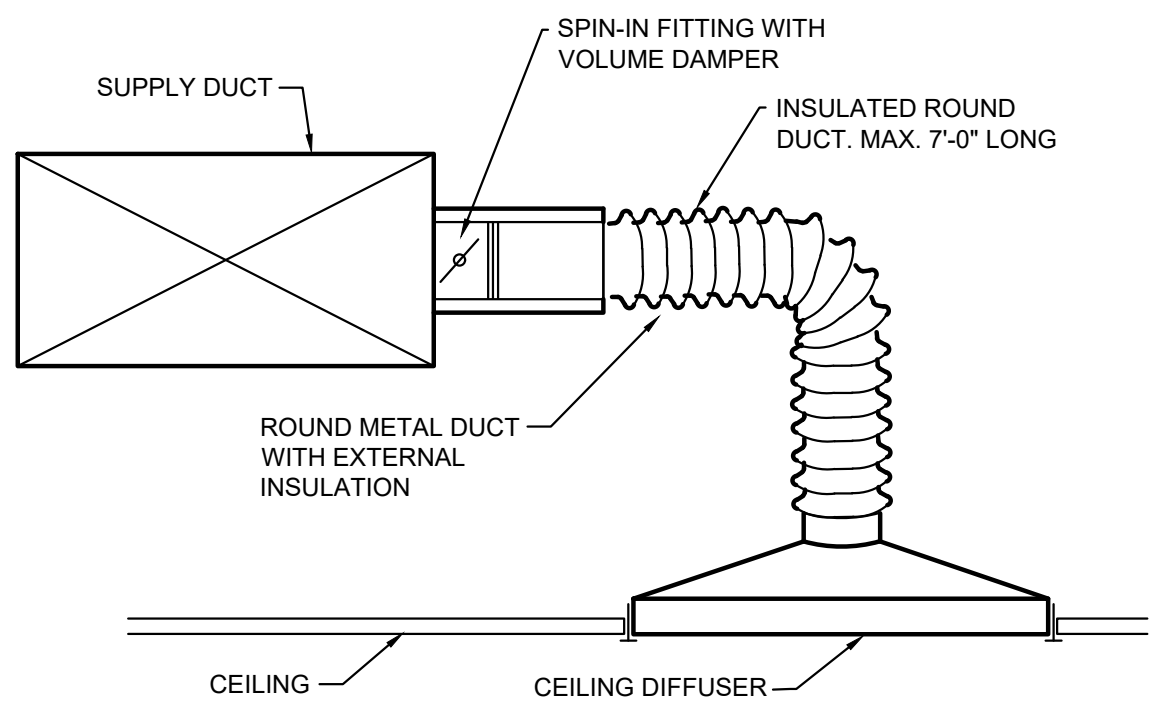
- A. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE. ALL EXHAUST DUCT SHALL BE GALVANIZED STEEL FOR 2.0 INCHES NEGATIVE PRESSURE. SA DUCT MAINS SHALL BE GALVANIZED STEEL CONSTRUCTED FOR 2.0 INCH POSITIVE PRESSURE. FLEX DUCT SHALL BE LISTED AND TESTED IN ACCORDANCE WITH UL181 AND RATED FOR THE SMACNA PRESSURE CLASSIFICATION IN WHICH IT IS APPLIED.
- B. CONSTRUCT T'S, ELBOWS, AND BENDS WITH MINIMUM 1.5 TIMES CENTERLINE DUCT WIDTH, WHERE NOT POSSIBLE AND WHERE RECTANGULAR ELBOWS ARE USED, PROVIDE AIRFLOW TURNING VANES. WHERE ACOUSTICAL LINING IS INDICATED, FURNISH TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION.
- C. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. MAXIMUM 30 DEGREES DIVERGENCE UPSTREAM OF EQUIPMENT AND 45 DEGREES CONVERGENCE DOWNSTREAM.
- D. FLEXIBLE DUCTWORK SHALL BE BLACK POLYMER FILM SUPPORTED BY HELICAL-WOUND SPRING STEEL WIRE; FIBERGLASS INSULATION; ALUMINIZED VAPOR BARRIER FILM. PRESSURE RATING: 4 INCHES WG POSITIVE AND 0.5 INCHES WG NEGATIVE. MAXIMUM VELOCITY: 4000 FPM. TEMPERATURE RANGE: -20 DEGREES F TO 175 DEGREES F. THERMAL RESISTANCE: 4.2 SQUARE FEET-HOUR-DEGREE F PER BTU. FLEXIBLE DUCTWORK SHALL NOT EXCEED SEVEN FEET IN LENGTH.
- E. ALL JOINTS AND SEAMS SHALL BE SEALED WITH A UL LISTED DUCT SEALANT.
- F. DURING CONSTRUCTION, INSTALL TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM.
- G. UNLESS NOTED OTHERWISE SUPPLY DUCTWORK SHALL BE INSULATED WITH 1.5 INCHES OF FIBERGLASS DUCTWRAP WITH FOIL FACED KRAFT PAPER VAPOR SEAL JACKET WITH A "K" FACTOR OF 0.30 AT 75°F MEAN TEMPERATURE..
- H. BRANCH DUCT TAKEOFFS FROM MAINS SHALL BE 45 DEGREE OR CONICAL TYPE, STRAIGHT, OR "X" COLLARS.
- I. WHEN NOTED, HVAC DUCTWORK SHALL BE INTERNALLY INSULATED FOR PROTECTIVE OR ACOUSTICAL CONSIDERATIONS WITH 1" THICK FIBERGLASS DUCT LINER INSULATION FACED WITH A BLACK FIRE RESISTANT COATING AGAINST THE AIRSTREAM. DUCTWORK THAT IS NOTED (L) IS INTERNALLY INSULATED AND DIMENSIONS LISTED ARE THE ACTUAL OUTSIDE DIMENSIONS OF THE DUCT.
- J. WHERE APPLICABLE, HVAC DUCTWORK EXPOSED TO THE WEATHER AND ELEMENTS SHALL BE EXTERNALLY INSULATED WITH 2" THICK RIGID FIBERGLASS DUCT INSULATION FACED WITH ALUMINUM VAPOR RETARDER INSULATION JACKET USING LONGITUDINAL SLIP JOINTS WITH 2" LAPS, AND METAL JACKET BANDS.
- K. WHERE APPLICABLE, DUCTWORK PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE MADE WITH UL 555C LABELED FIRE DAMPERS (FD). DAMPER RATING SHALL BE 1-1/2 HOURS FOR 1 AND 2 HOUR RATED ASSEMBLIES AND 3 HOURS FOR 3 HOUR RATED ASSEMBLIES. DUCT ACCESS DOORS A MIN OF 24"x24" SHALL BE INSTALLED FOR ACCESS TO FUSIBLE LINK REPAIR FOR EACH FIRE DAMPER.
- L. WHERE APPLICABLE, DUCTWORK PENETRATIONS THROUGH CORRIDORS/SMOKE BARRIERS, SHALL BE MADE WITH UL 555&555S LABELED COMBINATION FIRE/ SMOKE DAMPERS (SD/FD). DAMPER RATING SHALL BE 1-1/2 HOURS FOR 1 AND 2 HOUR RATED ASSEMBLIES AND 3 HOURS FOR 3 HOUR RATED ASSEMBLIES. DAMPER SHALL BE CLASS 1 TYPE WITH GALVANIZED STEEL OPPOSED BLADES, SILICONE BLADE EDGE SEALS AND STAINLESS STEEL JAMBS, AND 24 VOLT TWO-POSITION/FAIL CLOSED ACTUATOR. DUCT ACCESS DOORS A MIN OF 24"x24" SHALL BE INSTALLED FOR ACCESS TO FUSIBLE LINK REPAIR FOR EACH FIRE DAMPER. COORDINATE CONTROL OF SMOKE DAMPER WITH INSTALLATION OF BUILDING SMOKE ALARM SYSTEM.
- M. AIR DISTRIBUTIONS SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH AABC OR NEBB STANDARDS. ALL BALANCING SHALL BE PERFORMED AND DOCUMENTED PRIOR TO HARD CEILING INSTALLATION. ALL QUADRANT LOCKS SHALL BE SECURED AFTER BALANCING IS PERFORMED AND SPECIFICATIONS ARE MET. PROVIDE OWNER WITH WRITTEN BALANCE REPORT.

HVAC EQUIPMENT SYMBOLS

	EQUIPMENT TAG
	SQUARE SUPPLY AIR DIFFUSER
	DAMPER (FD= FIRE DAMPER, SD= SMOKE DAMPER, RD=RADIATION DAMPER)
	RETURN GRILLE
	EXHAUST GRILLE
	SIDEWALL SUPPLY DIFFUSER
	SIDEWALL RETURN/EXHAUST GRILLE
	GRILLE/DIFFUSER TAG: (TYPE, CFM, INLET SIZE)
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	FLEXIBLE DUCT RUNOUT WITH SPIN-IN FITTING AND VOL DAMPER
	SUPPLY DUCTWORK (INDICATED SINGLE LINE)
	RETURN OR EXHAUST DUCTWORK (INDICATED SINGLE LINE)
	SUPPLY DUCTWORK (INDICATED SINGLE LINE WITH ACOUSTICAL LINER)
	ROOF MOUNTED EXHAUST FAN
	THERMOSTAT/TEMPERATURE SENSOR MOUNTED 48" A.F.F.
	NITROUS DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	HORN/STROBE DEVICE
	POINT OF NEW CONNECTION

HVAC PIPING LEGEND

	HEATING WATER SUPPLY
	HEATING WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSATE DRAIN PIPING
	REFRIGERANT LIQUID PIPING
	REFRIGERANT SUCTION PIPING
	EXISTING PIPING
	PIPING TO BE REMOVED
	BALL VALVE
	BUTTERFLY VALVE
	BALANCE VALVE
	CHECK VALVE
	RELIEF VALVE
	AIR VENT
	PRESSURE GAUGE
	THERMOMETER
	TEST PLUG
	UNION
	CONTROL VALVE (THREE WAY)
	CONTROL VALVE (TWO WAY)



TYPICAL CEILING DIFFUSER CONNECTION DETAIL
NOT TO SCALE

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HVAC DETAILS
AND SCHEDULES

SCALE: CLIENT: 096

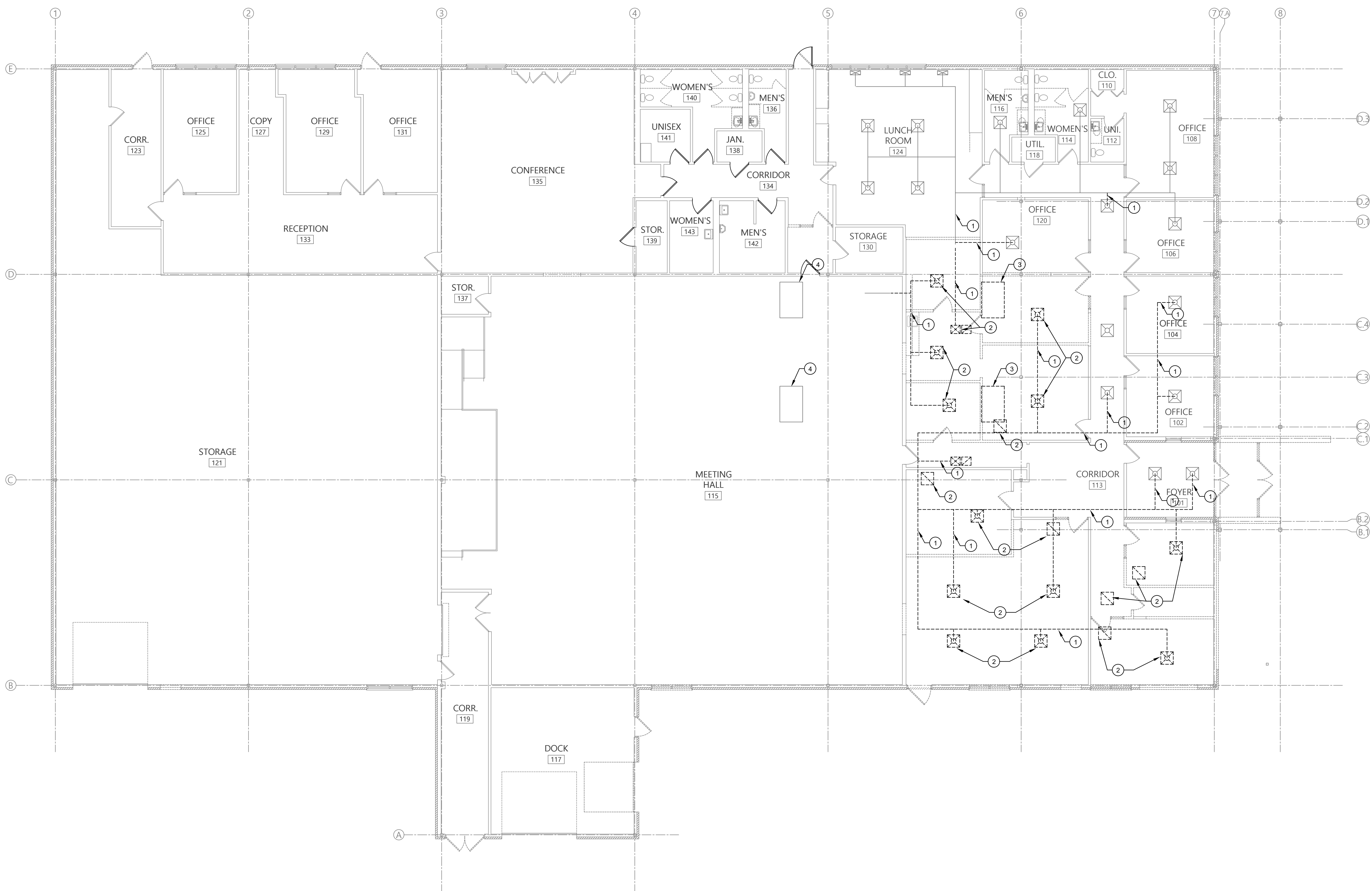
DATE: 06/24/25 PROJECT: 096001

DRAWN:

APPRVD:

FILE:

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1 FIRST FLOOR HVAC PLAN

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

- HVAC DEMOLITION PLAN
KEYNOTES:
1. REMOVE EXISTING DUCTWORK AND SUPPORT.
 2. REMOVE EXISTING GRILLE/DIFFUSER.
 3. DISCONNECT AND REMOVE EXISTING ROOFTOP UNIT, CURB, AND RELATED APPURTENANCES. SALVAGE FOR RELOCATION.
 4. EXISTING ROOFTOP UNIT TO REMAIN.

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FIRST FLOOR HVAC
DEMOLITION PLAN

SCALE: CLIENT: 096

DATE: 06/24/25 PROJECT: 096001

DRAWN:

APPRVD: MD1.1

FILE:

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FIRST FLOOR
HVAC PLAN

SCALE: CLIENT: 096

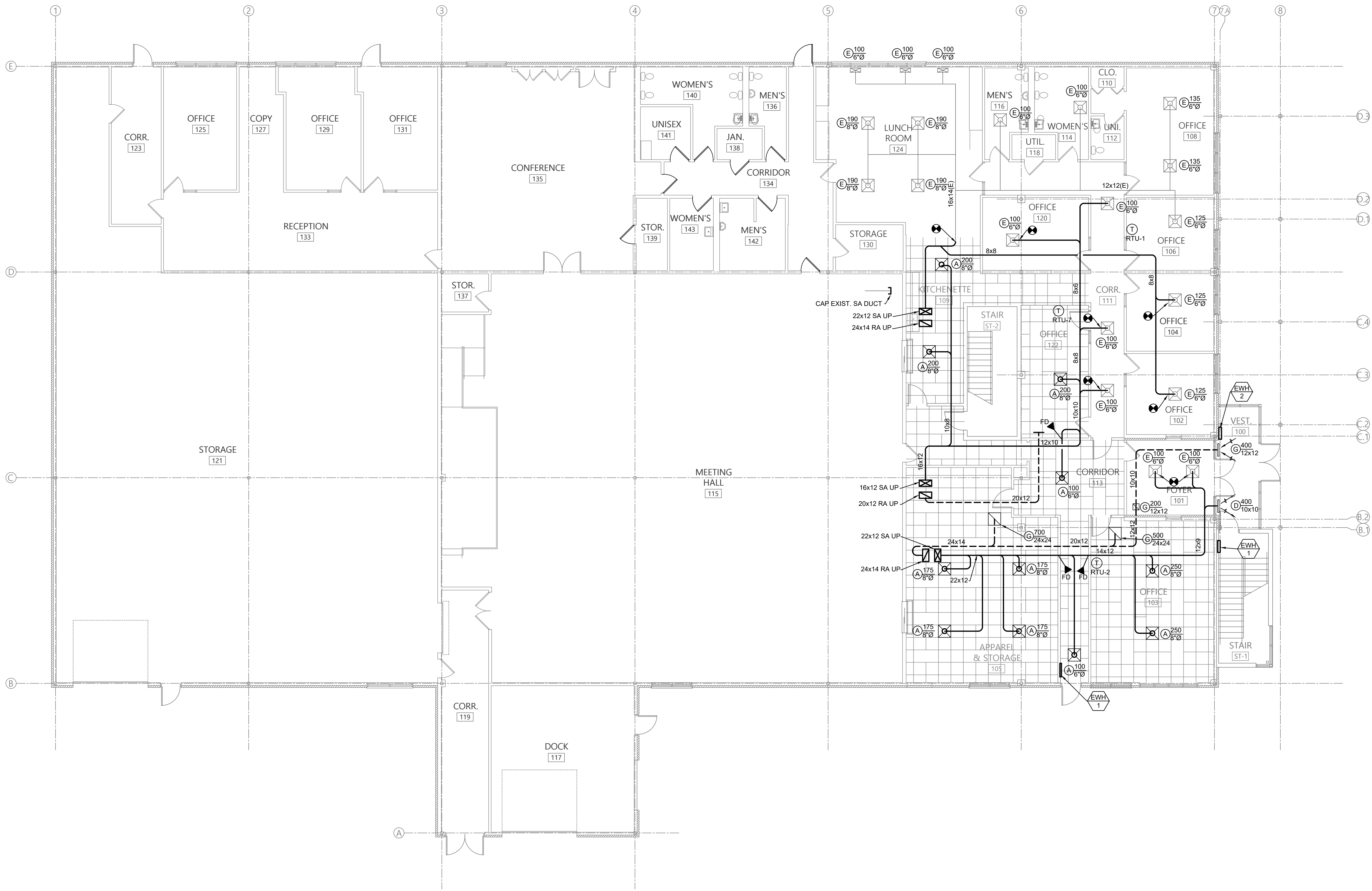
DATE: 06/24/25 PROJECT: 096001

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APPRVD:

FILE:

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1 FIRST FLOOR HVAC PLAN

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

AMERICA LOCAL #41

RENOVATION - 2025

MARK	DATE	DESCRIPTION
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[illegible]

H.V.A.C. PLAN

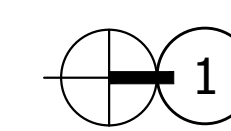
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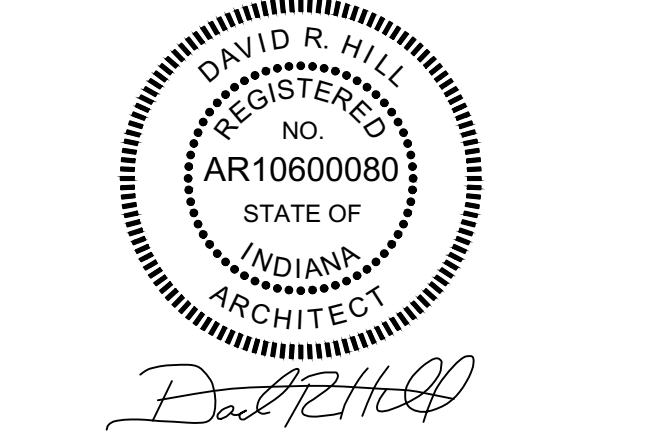
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FILE:



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

MARK	DATE	DESCRIPTION
	10-23-25	FOR PERMIT



SHEET NOTES

- EXISTING 100A PANELBOARD TO REMAIN IN SERVICE, IF NEEDED. IT APPEARS THAT MOST OF THE LOADS HAVE BEEN REMOVED. DURING DEMOLITION, CONFIRM IF THERE ARE ANY EXISTING CIRCUITS WHICH ARE TO REMAIN. IF NO CIRCUITS ARE TO REMAIN, REMOVED PANELBOARD, CONDUIT AND WIRING BACK TO THE ORIGINAL POINT OF ORIGIN.
- EXISTING ROOFTOP UNIT TO BE RELOCATED. EXISTING ROOFTOP UNIT DISCONNECT, CONDUIT, WIRING, ETC. TO BE DISCONNECTED AND DEMO'D BACK TO PANEL F. COORDINATE WITH MECHANICAL CONTRACTOR REGARDING THE EXACT LOCATION OF THE EXISTING ROOFTOP UNIT WHICH IS TO BE RELOCATED. THE LOCATION SHOWN ON THIS DEMO PLAN IS NOT ACCURATE. SEE SHEET E-2.1 FOR ROOFTOP UNIT RELOCATION AND NEW ELECTRICAL CONNECTION TO GENERATOR PANELBOARD G.

GENERAL NOTES

- A. IF EXISTING 2X4 LIGHTS IN THE AREA OF DEMOLITION, ARE IN GOOD WORKING ORDER, REMOVE AND PROTECT THEM DURING DEMOLITION AND REUSE THEM IN THE REMODELED FIRST FLOOR SPACE. OWNER APPROVAL IS REQUIRED TO REUSE LIGHT FIXTURES.

LEGEND:

ALL ELECTRICAL EQUIPMENT, PANELS, LIGHTING FIXTURES, DEVICES, ETC., AND ASSOCIATED CONDUIT AND WIRE IN HATCHED AREA SHALL BE REMOVED UNLESS NOTED OTHERWISE. NOT ALL LIGHTING FIXTURES, DEVICES, CONDUIT, WIRE, ETC. TO BE REMOVED ARE SHOWN. FIELD VERIFY. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.



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SHEET NOTES

1. ALTERNATE - EXISTING LIGHTING IN THIS ROOM TO REMAIN. INTERCEPT LIGHTING CIRCUITS AND REROUT AS REQUIRED TO POWER FROM GENERATOR PANELBOARD G. REUSE EXISTING SWITCHING.
2. VERIFY MOUNTING HEIGHT OF WALLPACK WITH OWNER. CONTROL VIA TIMER F.
3. PROVIDE POWER CONNECTION FOR SIGNAGE. COORDINATE WITH OWNER ON POWER REQUIREMENTS FOR SIGNAGE. VERIFY MOUNTING HEIGHT.
4. VERIFY MOUNTING HEIGHT OF MANDOOK WALLPACK WITH OWNER. MOUNT OVER DOOR. CONTROL VIA TIMER F.
5. CONTROL VIA TIMER F.

GENERAL NOTES

- A. IF EXISTING 2X4 LIGHTS IN THE AREA OF DEMO ARE IN GOOD WORKING ORDER, THEY MAY BE USED IN PLACE OF FIXTURE TYPE AB ON THE FIRST FLOOR. VERIFY QUANTITY OF FIXTURES IN THE FIELD. FIXTURES MAY BE USED SO LONG AS THERE ARE ENOUGH FIXTURES TO REPLACE ALL TYPE AB LIGHTS IN AN ENTIRE ROOM. NO MIXING OF FIXTURE TYPES. VERIFY WITH OWNER PRIOR TO BIDDING-OWNER APPROVAL IS REQUIRED TO REUSE LIGHT FIXTURES.
- B. ADJUST WIRE SIZING FOR ALL BRANCH CIRCUITS TO ACCOUNT FOR VOLTAGE DROP.



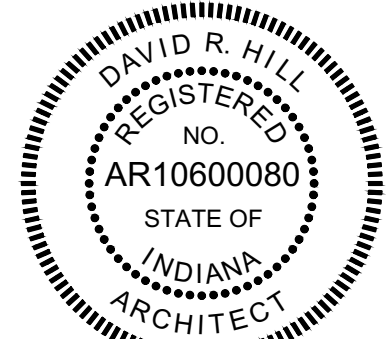
NORTH
FIRST FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

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David R. Hill

LIGHTING FIRST
FLOOR PLAN

SCALE: CLIENT: 096

DATE: 06/24/25 PROJECT: 096001

DRAWN:

APPRVD:

E1.0

FILE:

GENERAL NOTES
A. ADJUST WIRE SIZING FOR ALL BRANCH
CIRCUITS TO ACCOUNT FOR VOLTAGE
DROP.

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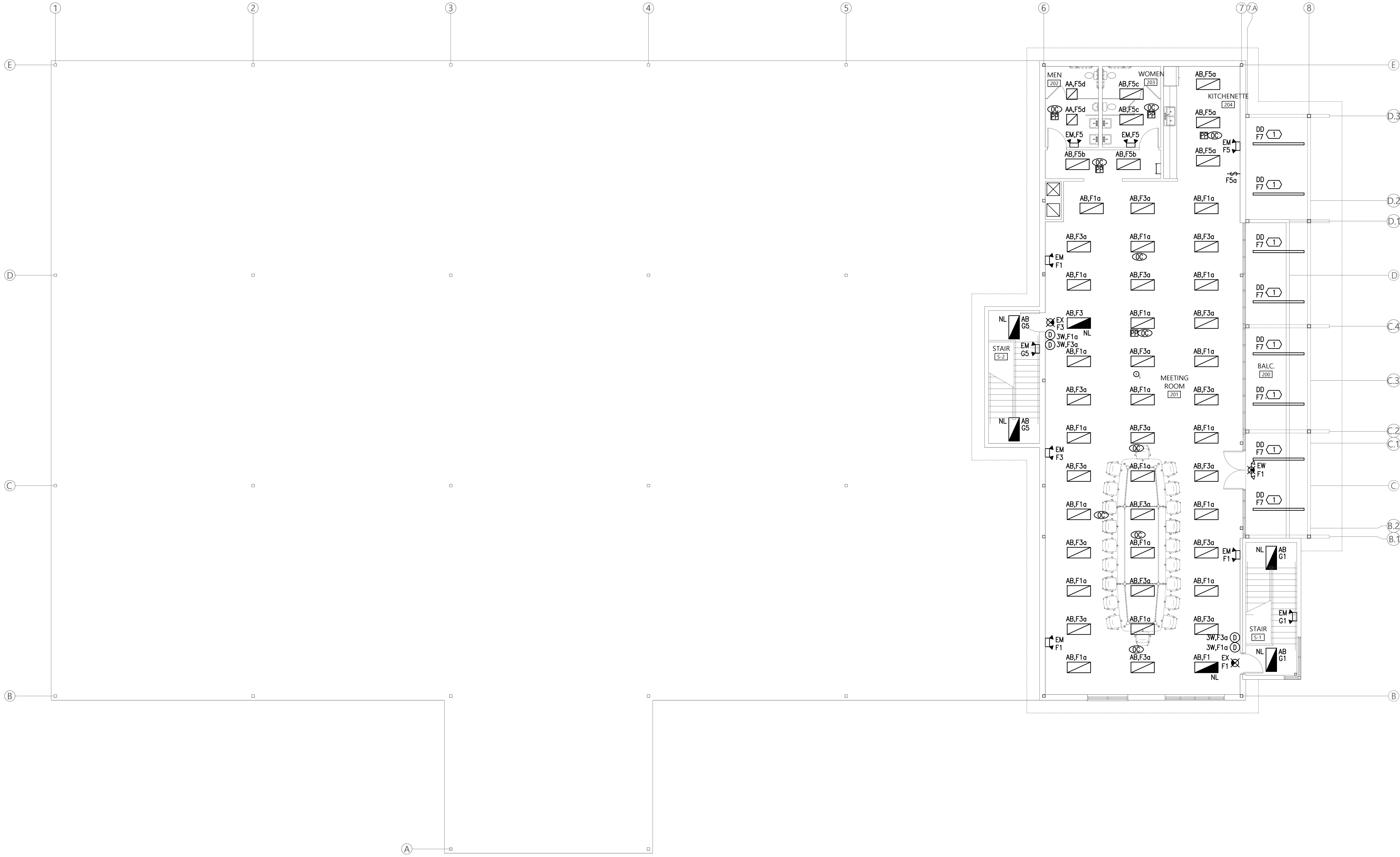
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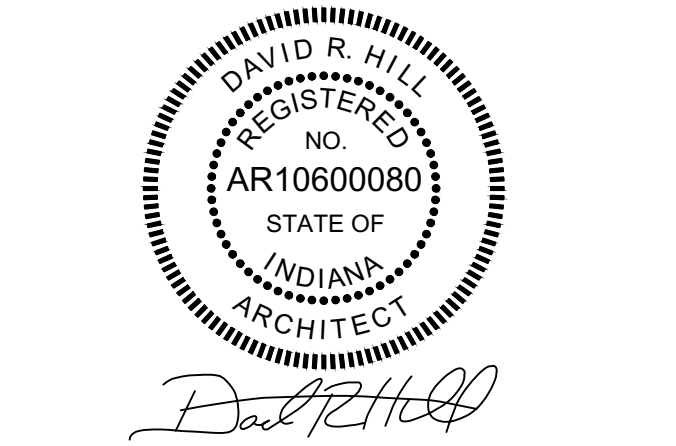
LIGHTING SECOND
FLOOR PLAN

SCALE: CLIENT: 096
DATE: 06/24/25 PROJECT: 096001
DRAWN:
APPRVD:
FILE:



NORTH
SECOND FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

MARK	DATE	DESCRIPTION
	10-23-25	FOR PERMIT

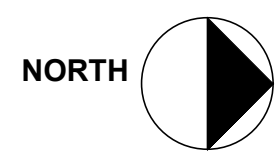
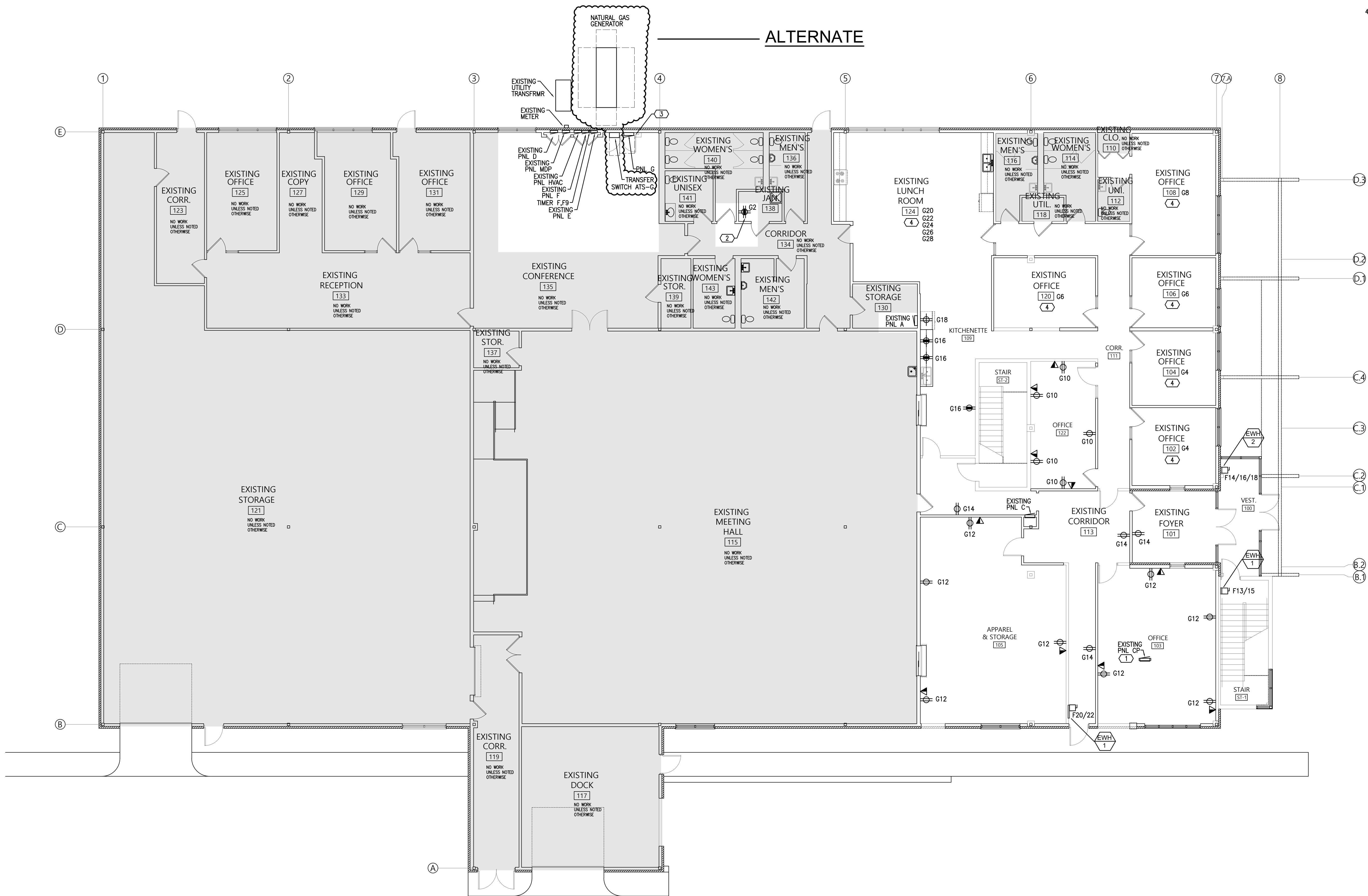


SHEET NOTES

- EXISTING 100A PANELBOARD TO REMAIN IN SERVICE IF NEEDED. IT APPEARS THAT MOST OF THE LOADS HAVE BEEN REMOVED. DURING DEMOLITION, CONFIRM IF THERE ARE ANY EXISTING CIRCUITS WHICH ARE TO REMAIN. IF ALL CIRCUITS ARE DEMO'D, THEN REMOVED PANELBOARD, CONDUIT AND WIRING BACK TO THE ORIGINAL POINT OF ORIGIN.
- PROVIDE DEDICATED IT RECEPTACLE FOR OWNERS IT EQUIPMENT. CONNECT TO GENERATOR POWER AS SHOWN.
- COORDINATE ACTUAL PHYSICAL SIZE OF ELECTRICAL CLOSET WITH ACTUAL PHYSICAL DIMENSIONS OF EQUIPMENT ORDERED. ENSURE CLOSET IS LARGE ENOUGH TO PROVIDE ALL CLEARANCE REQUIREMENTS.
- EXISTING RECEPTACLES IN THIS ROOM SHALL BE INTERCEPTED AND CONNECTED TO NEW GENERATOR. PANELBOARD G. FIELD VERIFY ALL EXISTING CONDITIONS. CONNECT TO CIRCUIT SHOWN.

GENERAL NOTES

- ADJUST WIRE SIZING FOR ALL BRANCH CIRCUITS TO ACCOUNT FOR VOLTAGE DROP.
- SEE MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS AND LOCATIONS.
- COORDINATE GRAP LOCATION WITH OWNER.



FIRST FLOOR PLAN - POWER

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

SHEET NOTES (1)

1. PROVIDE POWER FOR MOTORIZED SCREEN. VERIFY LOCATION WITH OWNER.
2. PROVIDE POWER FOR PROJECTOR. VERIFY LOCATION WITH OWNER.
3. FIELD WIRED CONVENIENCE RECEPTACLE.
4. EXHAUST FAN SHALL BE CONTROLLED WITH LIGHTING IN THIS ROOM VIA OCC SENSOR.
5. PROVIDE DEDICATED POWER FOR MICROWAVE.
6. PROVIDE DEDICATED POWER FOR REFRIGERATOR.

GENERAL NOTES

- A. ADJUST WIRE SIZING FOR ALL BRANCH CIRCUITS TO ACCOUNT FOR VOLTAGE DROP.
- B. SEE MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS AND LOCATIONS.

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POWER SECOND
FLOOR PLAN

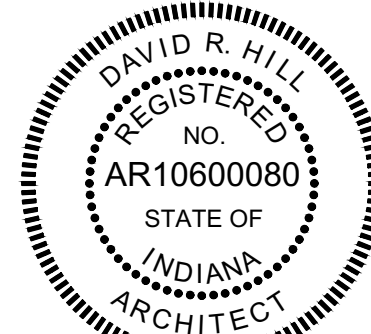
SCALE: CLIENT: 096
DATE: 06/24/25 PROJECT: 096001

DRAWN:
APPRVD: **E2.1**

FILE:

SECOND FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

MARK	DATE	DESCRIPTION
	10-23-25	FOR PERMIT



LIGHTING FIXTURES

TYPE AA 2' X 2' LAY-IN LED BASKET FIXTURE WITH ACRYLIC DIFFUSER, 120V, 23W, 3300 LUMENS, DIMMABLE, COLOR LP835 3500K. COLOR TEMP SHALL MATCH EXISTING BUILDING LIGHT FIXTURES. LITHONIA #28TL2 33L ADP MVOLT E21 LP835
TYPE AB 2' X 4' LAY-IN LED BASKET FIXTURE WITH ACRYLIC DIFFUSER, 120V, 32.1W, 4000 LUMENS, DIMMABLE, COLOR LP835 3500K. COLOR TEMP SHALL MATCH EXISTING BUILDING LIGHT FIXTURES. LITHONIA #28TL4 40L ADP MVOLT E21 LP835
TYPE BB 4' WALL MOUNT DIRECT/INDIRECT, DIRECT-800 LUMENS PER FOOT AND 6.33 WATTS PER FOOT, INDIRECT-400 LUMENS PER FOOT AND 2.55 WATTS PER FOOT, 120V, COLOR TEMP 3500K, FLUSH LENS. LITHONIA #3QMD 4FT MSL4 80CR 35K 800LMF 180CR 135K 400LMF
TYPE DD 8' SURFACE MOUNT LINEAR, EXTERIOR WET LOCATION RATED, VERIFY FINISH, 500 LUMENS PER FOOT, 33.5 WATTS, VERIFY MOUNTING STARTER LIGHTING AMERICA #SAQUAD 8FT 500LPT SD 35K 80CRI FINISH MOUNTING U 1C
TYPE EM DUAL HEAD BATTERY PACK. LITHONIA #ELM2L SORT
TYPE ER REMOTE HEADS, TWO LAMPS, WEATHER PROOF-WET LOCATION, SEALED AND GASKETED, COLOR AS SELECTED BY ARCHITECT LITHONIA #ELMRW LP220L COLOR T
TYPE EW LED GREEN EXIT SIGN, EXTERIOR LOCATION COLD WEATHER LISTED, BATTERY BACK-UP. LITHONIA #MLTC S W G SW
TYPE EX LED GREEN EXIT SIGN, UNIVERSAL, BATTERY BACK-UP. LITHONIA #LQW S W RG MVOLT EL SD
TYPE FY LED GREEN EXIT SIGN EMERGENCY LIGHT COMBO, HIGH OUTPUT BATTERY TO POWER REMOTE HEADS, UNIVERSAL, BATTERY BACK-UP. LITHONIA #LHQW S W RG MVOLT HO
TYPE WA WALL LED FIXTURE, 32.0W, 3147 LUMENS, LED, 3500K, FINISH AS SELECTED BY ARCHITECT. VERIFY MOUNTING HEIGHT WITH OWNER. LITHONIA #WDGEZ LED P3 35K 80CRI TFTM MVOLT FINISH
TYPE WB WALL LED MANDOR FIXTURE, 10.0W, 1200 LUMENS, LED, 3500K, FINISH AS SELECTED BY ARCHITECT. MOUNT DIRECTLY OVER MAN DOOR. VERIFY MOUNTING HEIGHT WITH OWNER. LITHONIA #WDGEZ LED P1 35K 80CRI VF MVOLT FINISH
*VERIFY COLOR TEMP OF ALL FIXTURES WITH OWNER. COORDINATE COLOR TEMP WITH EXISTING LIGHT FIXTURES.

EXISTING PANELBOARD: HVAC

VOLTAGE: 208/120V, 3 PHASE, 4 WIRE
EXISTING MAINS: 200A MCB
FEEDER: EXISTING

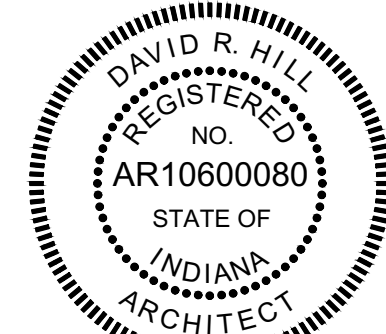
Ckt No.	LOAD DESCRIPTION	C/B	A	B	C
1	EXISTING EXHAUST FAN	EXIST. 20A/1P	-	-	-
3	EXISTING RTU	EXIST. 50A/3P	-	-	-
5					
7					
9	EXISTING RTU 4 MIDDLE WEST	EXIST. 50A/3P	-	-	-
11					
13					
15	EXISTING	EXIST. 20A/1P	-	-	-
17	SPACE				
19	SPACE				
21	SPACE				
23	SPACE				
25	SPACE				
27	SPACE				
29	SPACE				
31	EXISTING EXHAUST FAN	EXIST. 20A/1P	-	-	-
33	EXISTING RTU	EXIST. 50A/3P	-	-	-
35					
37					
39					
41	EXISTING RTU 6 SOUTHWEST	EXIST. 40A/3P	-	-	-
43					
45					
47	EXISTING	EXIST. 70A/2P	-	-	-
49					
51	RTU-8	80A/3P	7200	7200	7200
53					

G

PANELBOARD:
VOLTAGE: 208/120V, 3 PHASE, 4 WIRE
MAIN: 200A MCB
AIC RATING SHALL MATCH EXISTING
MOUNTING SURFACE
FEEDER: SEE RISER DIAGRAM

Ckt No.	LOAD DESCRIPTION	C/B	A	B	C
1	LIGHTING	20A/1P	1000		
3	EXISTING LIGHTING	20A/1P		1000	
5	LIGHTING	20A/1P			1000
7	SPARE	20A/1P	-	-	-
9	SPARE	20A/1P	-	-	-
11	SPARE	20A/1P	-	-	-
13	SPARE	20A/1P	-	-	-
15	SPARE	20A/1P	-	-	-
17	SPARE	20A/1P	-	-	-
19	SPARE	20A/1P	-	-	-
21	SPARE	20A/1P	-	-	-
23	SPARE	20A/1P	-	-	-
25	RTU-2 (EXISTING RELOCATED)	35A/3P	3300		
27				3300	
29					3300
31	SPARE	20A/1P	-	-	-
33	BATTERY CHARGER/HRT GMRTR	20A/1P		500	
35	JACKET HEATER GENERATOR	20A/1P			500
37	RTU-1 (EXISTING RELOCATED)	35A/3P	3300		
39					3300
41					3300
43	RECEPTACLE - IT CLOSET	20A/1P	360		
45	RECEPT-EXIST OFF 102/104	20A/1P		1440	
47	RECEPT-EXIST OFF 106/120	20A/1P			1440
49	RECEPT-EXIST OFF 108	20A/1P	900		
51	RECEPT-OFFICE 122	20A/1P		1080	
53	RECEPT-OFFICE 103-APPRL	20A/1P			1440
55	RECEPT-CORRIDOR & FRYS	20A/1P	720		
57	RECEPT-KITCHENETTE	20A/1P		540	
59	RECEPT-KITCHENETTE FRIDGE	20A/1P			600
61	RECEPT-EXISTING KITCHEN	20A/1P	600		
63	RECEPT-EXISTING KITCHEN	20A/1P		600	
65	RECEPT-EXISTING KITCHEN	20A/1P			600
67	RECEPT-EXISTING KITCHEN	20A/1P	600		
69	RECEPT-EXISTING KITCHEN	20A/1P		600	
71	RECEPT-EXISTING KITCHEN	20A/1P			600
73	RECEPT-EXISTING KITCHEN	20A/1P			600
75	RECEPT-EXISTING KITCHEN	20A/1P			600
77	RECEPT-EXISTING KITCHEN	20A/1P			600
79	RECEPT-EXISTING KITCHEN	20A/1P			600
81	RECEPT-EXISTING KITCHEN	20A/1P			600
83	RECEPT-EXISTING KITCHEN	20A/1P			600
85	RECEPT-EXISTING KITCHEN	20A/1P			600
87	RECEPT-EXISTING KITCHEN	20A/1P			600
89	RECEPT-EXISTING KITCHEN	20A/1P			600
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MARK	DATE	DESCRIPTION
	10-23-25	FOR PERMIT



David R. Hill

ELECTRICAL SPECIFICATION

SCALE: CLIENT: 096

DATE: 06/24/25 PROJECT: 096001

DRAWN:

APPRVD:

E3.1

FILE:

SPECIFICATIONS

GENERAL

1. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF THE SYSTEMS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS.

2. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND COMPLY WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES AND ORDINANCES AND THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY. ALL EQUIPMENT SHALL BE U.L. (OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY) LISTED.

3. ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL INSTALL SYSTEMS TO MEET FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE ALL WORK WITH RESPECTIVE TRADES, AND VERIFY LOCATIONS FROM THE ARCHITECTURAL DRAWINGS, SUPPLIER DRAWINGS, AND FIELD DIMENSIONS.

4. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF THE WORK AND THE WORKING CONDITIONS.

5. THE DRAWINGS AND SPECIFICATIONS HAVE BEEN DEVELOPED FOR ONE (1) PRIME CONTRACTOR. THEY ARE NOT INTENDED TO DIVIDE THE WORK BETWEEN CONTRACTORS. COORDINATE INTERFACES WITH GENERAL CONTRACTOR.

6. ARRANGE AND PAY FOR ALL COST CHARGEABLE TO THE OWNER BY UTILITY COMPANIES FOR ELECTRICAL SERVICES FOR THE PROJECT INCLUDING TELEPHONE AND ELECTRICAL SERVICE.

7. CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS FOR THE FOLLOWING EQUIPMENT WITH THE ASSOCIATED JURISDICTION (AHJ) PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN:

A. MECHANICAL EQUIPMENT
B. PLUMBING EQUIPMENT
C. EXISTING EQUIPMENT

PERMITS
OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS FOR ALL WORK COVERED BY THIS CONTRACT. ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.

CONSTRUCTION POWER
PROVIDE TEMPORARY POWER AND LIGHTING FOR THE JOB SITE DURING CONSTRUCTION.

ELECTRICAL TIE-INS
COORDINATE WITH THE BUILDING OWNER FOR THE FURNISHING OF ELECTRICAL POWER FOR THE PROJECT

OPENINGS

1. PROVIDE ALL REQUIRED OPENINGS THROUGH WALLS, CEILINGS AND FLOORS. ALL DISTURBED SURFACES OR FINISHES MUST BE REPLACED OR REPAIRED TO THE ARCHITECT'S SATISFACTION

2. FIRE SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS.

CONDUIT

1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN A METAL CONDUIT SYSTEM, INCLUDING LOW VOLTAGE WIRING.

2. SERVICE ENTRANCE CONDUIT, EXTERIOR CONDUIT AND CONDUIT EXPOSED TO WEATHER AND SHALL BE RIGID GALVANIZED STEEL

3. CONDUIT IN WET LOCATIONS SHALL BE RIGID GALVANIZED STEEL

4. UNDERGROUND FEEDER AND UNDERGROUND BRANCH CONDUITS SHALL BE RIGID GALVANIZED STEEL OR SCHEDULE 40 PVC AS PERMITTED BY CODE. RIGID GALVANIZED STEEL CONDUIT SHALL BE USED FOR MAKING FINAL TURNS OUT OF EQUIPMENT PADS AND FINISHED FLOOR. EXTERIOR UNDERGROUND CONDUITS SHALL BE INSTALLED 36" BELOW GRADE. CONDUIT BELOW CONCRETE FLOOR SLAB SHALL BE A MINIMUM OF 6" BELOW BOTTOM OF SLAB.

5. ALL CONDUIT IN DRY LOCATIONS SHALL BE EMT.

6. MINIMUM SIZE CONDUIT ABOVE GRADE SHALL BE 1/2".

7. MINIMUM SIZE CONDUIT BELOW GRADE SHALL BE 3/4".

8. ALL CONDUITS SHALL BE INDEPENDENTLY SUPPORTED. CONDUITS SHALL NOT BE SUPPORTED FROM MECHANICAL SYSTEMS OR CEILING SUSPENSION WIRES.

9. ALL CONDUITS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE. WHERE EXPOSED, CONDUITS SHALL BE RUN IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO BUILDING CONSTRUCTION.

10. FOUR 3/4" SPARE CONDUITS SHALL BE INSTALLED FROM EACH FLUSH MOUNTED PANELBOARD AND BE EXTENDED UP INTO THE DROP CEILING SPACE. END OF CONDUIT SHALL BE CAPPED.

SURFACE RACEWAY:

1. WHERE RACEWAYS MUST BE ADDED TO EXISTING WALLS OR CEILINGS, AND RECESSING IS IMPRACTICAL, CONTRACTOR SHALL INSTALL SURFACE RACEWAYS.

2. SURFACE RACEWAYS SHALL BE ONE PIECE STEEL CONSTRUCTION, NOMINAL DIMENSIONS OF 3/4"W BY 1/2"D. ALL SURFACE FITTINGS AND BOXES SHALL BE SPECIFICALLY DESIGNED AND MANUFACTURED BY THE SURFACE RACEWAY SYSTEM VENDOR.

3. FACTORY FINISHED COLOR FOR THIS PROJECT SHALL BE AS SELECTED BY THE ARCHITECT.

4. SYSTEM SHALL BE INSTALLED PER MFR'S RECOMMENDATIONS.

5. SYSTEM SHALL BE WIREMOLD V500 OR APPROVED EQUAL.

POKE-THROUGH ASSEMBLIES

1. FACTORY-FABRICATED AND -PREWIRED ASSEMBLY OF BELOW-FLOOR JUNCTION BOX WITH MULTICHANNELLED, THROUGH-FLOOR RACEWAY/FIRESTOP UNIT AND DETACHABLE MATCHING FLOOR SERVICE OUTLET ASSEMBLY.

2. FLUSH TYPE WITH DEVICES AS SHOWN ON DRAWINGS.

3. UNIT SHALL BE LISTED AND LABELED FOR FIRE RATING OF FLOOR-CEILING ASSEMBLY.

4. ARRANGED TO CLOSE UNUSED CORED OPENINGS AND REESTABLISH FIRE RATING OF FLOOR.

5. SIZED FOR A MINIMUM OF FOUR NO. 12 AWG CONDUCTORS AND A MINIMUM OF FOUR 4-PAIR CATEGORY 6 UTP COMMUNICATION CABLES.

6. VERIFY EXACT LOCATION OF POKE THROUGH WITH OWNER BEFORE INSTALLATION. LOCATION ON PLANS ARE PRELIMINARY FOR ESTIMATING PURPOSES ONLY.

7. POKE-THROUGH ASSEMBLIES SHALL BE AS MANUFACTURED BY HUBBELL, PASS & SEYMOUR/LEGAND, OR WIREMOLD.

WIRE (120V AND ABOVE):

1. ALL WIRE SHALL BE COPPER WITH 600V INSULATION. CONDUCTORS SHALL BE STRANDED FOR SIZES NO. 8 AWG AND LARGER, SOLID FOR SIZES NO. 10 AWG AND SMALLER.

2. TYPE THWN SHALL BE USED INDOORS NOT INCLUDING SERVICES.

3. TYPE XHHW SHALL BE USED BELOW SLABS, SERVICE ENTRANCES AND EXTERIOR UNDERGROUND WORK, INCLUDING SITE LIGHTING.

4. MINIMUM SIZE SHALL BE #12. RUNS OVER 75' SHALL BE MINIMUM #10 UNLESS NOTED OTHERWISE.

SPLICES AND TERMINATIONS

1. ALL SPLICES AND PIGTAIL CONNECTIONS FOR INDOOR AND DRY LOCATIONS FOR CABLE SIZES NUMBER 10 AWG AND SMALLER SHALL BE MADE UP WITH PREINSULATED SPRING CONNECTORS, 3M COMPANY "SCOTCHLOCK," IDEAL INDUSTRIES, INC., WIRENUTS, OR APPROVED EQUAL.

2. SPLICES FOR CABLE SIZES NUMBER 8 AWG AND LARGER SHALL BE BUTT SPLICE TYPE CONSISTING OF LONG BARREL COPPER ONLY TYPE COMPRESSION CONNECTOR. SPLICE SHALL BE COVERED WITH EITHER A COLD SHRINK CONNECTOR INSULATOR OR HEAT SHRINK CONNECTOR INSULATOR.

3. ALL SPLICES OUTDOORS, ABOVE GRADE, SUCH AS IN LIGHT POLES, SHALL BE A WATERPROOF TWIST CONNECTOR. IDEAL WEATHERPROOF OR EQUAL.

4. ALL SPLICES OUTDOORS BELOW GRADE, SUCH AS IN UNDERGROUND PULL BOXES, SHALL BE MADE USING MOISTURE RESISTANT GEL ENCAPSULATED SPLICE KIT, ACCEPTABLE MANUFACTURERS SHALL BE NSI EASY SPLICE GEL TAP SPLICE OR RAYCHEM GTAP OR GHFC. WATERPROOF WIRE NUT CONNECTORS ARE NOT ACCEPTABLE.

BRANCH WIRING:

1. CONDUITS AND BOXES SHALL BE CONCEALED WHEREVER POSSIBLE.

2. CONNECT EQUIPMENT AND DEVICES TO THE CIRCUITS AND SWITCH LEGS SHOWN.

3. ARCS SHOWN ON DRAWINGS REPRESENT SWITCH ARRANGEMENT ONLY, AND ARE NOT INTENDED TO SHOW CONDUIT ROUTINGS.

4. EACH CIRCUIT SHALL HAVE AN INDEPENDENT NEUTRAL.

5. AMPACITIES OF CONDUCTORS WHEN MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE PLACED IN A RACEWAY SHALL BE DERATED PER CODE.

6. WHERE WIRE SIZES MUST BE INCREASED TO LIMIT VOLTAGE DROP, CONTRACTOR SHALL COORDINATE TERMINAL SIZES AT TERMINATIONS.

WIRING DEVICES:

1. WIRING DEVICES SHALL BE 20 AMPERE UL/FED SPEC LISTED, BACK AND SIDE WIRED, WITH COLOR AS SELECTED AND APPROVED BY THE ARCHITECT. RECEPTACLES CONNECTED TO GENERATOR SHALL BE RED IN COLOR.

2. COVER PLATES IN FINISHED AREAS SHALL BE NYLON WITH COLOR AS SELECTED AND APPROVED BY THE ARCHITECT. COVER PLATES FOR RECEPTACLES FED FROM GENERATOR SHALL BE RED IN COLOR. PROVIDE COMMON COVER PLATE FOR GANGED DEVICES. COVERS FOR SURFACE MOUNTED BOXES SHALL BE APPROPRIATE FOR THE BOX TYPE.

3. FOR RECEPTACLES IN EXTERIOR LOCATIONS, PROVIDE CAST ALUMINUM WHILE-IN-USE WEATHERPROOF COVERS, HUBBELL #WP2SE.

4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS: RECEPTACLES 18" AFF, SWITCHES 48" AFF, TELEPHONE OUTLETS 18" AFF, RECEPTACLES ALONG COUNTER TOP 6" ABOVE COUNTER. VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECT & LATEST ADA REQUIREMENTS PRIOR TO INSTALLATION.

5. CONDUCTORS SHALL BE ATTACHED TO DEVICES BY MEANS OF SCREW TERMINALS OR SCREW CLAMPS.

6. WIRING DEVICES SHALL BE HUBBELL OR PASS & SEYMOUR CONSTRUCTION SERIES

7. IN AREAS WHERE SNAP SWITCHES AND DIMMERS ARE SHOWN IN THE SAME LOCATION, PROVIDE A SEPARATE GANGED BACKBOX FOR THE SWITCH(ES) AND A SEPARATE BOX FOR THE DIMMER(S).

LIGHTING CONTROLS:

1. ALL LIGHTING CONTROL EQUIPMENT INCLUDING ALL OCCUPANCY SENSORS, POWER PACKS, LOW VOLTAGE WALL STATIONS, DIMMERS, ETC. SHALL BE BY A SINGLE MANUFACTURER. ACCEPTABLE MANUFACTURERS SHALL BE ACUITY, LUTRON, WATSTOPPER, OR SENSOR SWITCH.

2. OCCUPANCY SENSORS SHALL UTILIZE ULTRASONIC AND PASSIVE INFRARED DUAL TECHNOLOGY FOR OCCUPANCY DETECTION.

3. OCCUPANCY SENSOR COVERAGE SHALL BE BASED ON THE SENSORS MINOR MOTION RATED COVERAGE.

4. OCCUPANCY SENSORS SHALL BE SET TO 20 MINUTES OR AS REQUIRED BY CODE. CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE OCCUPANCY SENSORS TO OWNER'S SATISFACTION.

5. DIMMERS SHALL BE RATED FOR THE CONNECTED LOAD. WHEN GANGED, DIMMERS SHALL BE DERATED PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT DIMMER TYPE WITH LIGHT FIXTURE DRIVER.

6. FURNISH, INSTALL AND TEST ALL LIGHTING CONTROLS AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS. PROVIDE ALL REQUIRED EQUIPMENT, CONDUIT, BOXES, WIRING, CONNECTORS, HARDWARE, SUPPORTS, ACCESSORIES, PROGRAMMING, ETC. AS NECESSARY FOR A COMPLETE OPERATING SYSTEM THAT PROVIDES THE CONTROL INTENT INDICATED.

MECHANICAL EQUIPMENT, BUILT-IN EQUIPMENT AND CASEWORK:
COORDINATE WITH MECHANICAL CONTRACTOR ALL CONNECTION REQUIREMENTS PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN. THIS SHALL INCLUDE LOCATION, VOLTAGE, CIRCUIT BREAKER, FUSE AND WIRE SIZE, PHASE, CONTROL, MOUNTING HEIGHT, ETC.

LIGHTING FIXTURES:

1. FURNISH FIXTURES AND LAMPS AS SPECIFIED IN THE FIXTURE SCHEDULE.

2. PROVIDE ADEQUATE SUPPORT FOR ALL FIXTURES.

3. EXIT SIGNS SHALL NOT BE SUPPORTED FROM CEILING TILES. SUPPORT FROM STRUCTURE.

4. VERIFY MOUNTING HEIGHT OF ALL WALL MOUNTED FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

EXIT AND EMERGENCY LIGHTS:

1. EXIT AND EMERGENCY FIXTURES SHALL BE UNIT EQUIPMENT TYPE, CONNECTED AS REQUIRED BY CODE. BATTERIES SHALL BE OF SUITABLE RATING AND CAPACITY TO SUPPLY AND MAINTAIN THE TOTAL LOAD FOR A PERIOD OF 1.5 HOURS MINIMUM, WITHOUT THE VOLTAGE APPLIED TO THE LOAD FALLING BELOW 87.5 % OF NOMINAL.

2. ALL EXIT AND EMERGENCY FIXTURES SHALL BE UL LISTED, AND COMPLY WITH NFPA, NEC, LIFE SAFETY CODE, OSHA, AND LOCAL CODES.

3. THE BRANCH CIRCUIT THAT FEEDS UNIT EQUIPMENT SHALL BE CLEARLY IDENTIFIED AT THE DISTRIBUTION PANEL.

TIMER:

1. TIMER SHALL BE ELECTRONIC ASTRONOMIC, FULL YEAR, WITH NUMBER OF CHANNELS AND VOLTAGE RATINGS AS INDICATED ON THE DRAWINGS.

2. TIMER SHALL BE ENCLOSED IN A LOCKABLE NEMA 1 ENCLOSURE FOR INDOOR APPLICATIONS AND NEMA 3R ENCLOSURE FOR OUTDOOR APPLICATIONS.

3. TIMER SHALL BE TORK DZS, DLC, K SERIES OR EQUAL.

SIGN OUTLETS:

VERIFY CONNECTION REQUIREMENTS AND LOCATION WITH SIGN VENDOR AND ARCHITECT.

DISCONNECT SWITCHES:

1. DISCONNECT SWITCHES SHALL BE UL LISTED, HEAVY DUTY, HORSEPOWER RATED, FUSIBLE OR NON-FUSIBLE AS INDICATED ON THE DRAWINGS.

2. DISCONNECT SWITCHES SHALL BE RATED AT 600 VOLTS FOR 480 VOLTS AC CIRCUITS AND 240 VOLTS AC FOR 208 VOLTS AC AND 120 VOLTS AC CIRCUITS.

3. DISCONNECT SWITCHES SHALL HAVE A SHORT-CIRCUIT RATING OF 100,000 AMPERES RMS.

4. DISCONNECT SWITCHES SHALL HAVE THE PROPER NEMA RATING FOR THE AREA IN WHICH THEY ARE INSTALLED.

5. EACH DISCONNECT SWITCH SHALL HAVE AN EXTERNAL HANDLE THAT CAN BE PADLOCKABLE IN THE "OFF" POSITION. THE HANDLE OPERATION SHALL BE NON-FEASIBLE, QUICK MAKE-QUICK BREAK.

6. ALL CURRENT CARRYING PARTS SHALL BE COPPER. LUGS SHALL BE UL LISTED, MECHANICAL WITH SADDLES, CAST COPPER.

7. MANUFACTURED BY GE "TH" SERIES, SQUARE D "H" SERIES, OR SIEMENS "VB-2" SERIES.

PANELBOARDS:

1. ALL BUSES SHALL BE COPPER.

2. BRANCH BREAKERS SHALL BE "PLUG-IN TYPE, OR BOLT-ON IF REQUIRED BY LOCAL CODES.

3. PANELBOARDS SHALL BE SERVICE ENTRANCE RATED WHERE REQUIRED.

4. PROVIDE NAMEPLATE FOR PANEL AND TYPEWRITTEN DIRECTORY FOR EACH PANELBOARD.

5. PANELBOARDS SHALL BE MANUFACTURED BY, EATON, SIEMENS, OR SQUARE D. LOAD CENTERS ARE NOT ACCEPTABLE.

HOUSEKEEPING PADS:
ALL FLOOR MOUNTED EQUIPMENT (MDP, XFMR, ETC.) SHALL HAVE A 3.5" HIGH CONCRETE HOUSEKEEPING PAD. PAD SHALL EXTEND 2" BEYOND EQUIPMENT BASE, AND HAVE BEVELED EDGES.

MOTOR CONTROLS:

1. FURNISH AND INSTALL ALL DISCONNECT SWITCHES, CONTROLLERS, STARTERS, RELAYS, CONTROL TRANSFORMERS AND CONTROLS AS REQUIRED FOR A COMPLETE SYSTEM(S).

2. PROVIDE CONTROL AND INTERLOCK WIRING, EXCEPT WHERE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR.

3. LUBRICATION SHALL BE PROVIDED FOR EACH AND EVERY PIECE OF MOTORIZED EQUIPMENT WHERE NOT SPECIFIED AS PROVIDED BY OTHERS WITH ASSOCIATED EQUIPMENT.

4. HORSEPOWER RATED SWITCHES SHALL BE PROVIDED WITH INTEGRAL OVERLOAD PROTECTION IF MOTOR DOES NOT CONTAIN INTERNAL OVERLOAD PROTECTION.

GROUNDING:

1. GROUNDING SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL INSPECTION AUTHORITY.

2. PROVIDE A SEPARATE, INSULATED GROUNDING CONDUCTOR IN EACH FEEDER AND BRANCH CONDUIT, BONDED AT EACH TERMINATION.

WATER METER CONDUIT:
PROVIDE EMPTY CONDUIT FROM WATER METER TO REMOTE READOUT AS DIRECTED BY LOCAL UTILITY COMPANY.

TELEPHONE/DATA RACEWAY SYSTEM:

1. OUTLET SHALL CONSIST OF RECESSED 4 11/16" X 4 11/16" X 2-1/8" OUTLET BOX AND SINGLE DEVICE COVER WITH ONE (1) 1" EMT CONDUIT EXTENDING UP INTO THE DROPPED CEILING SPACE. IN AREAS WITH DRY WALL CEILING, CONDUIT SHALL BE STUBBED TO THE NEAREST CONDUIT ABOVE THE DROP CEILING OR TO THE NEAREST ACCESSIBLE CEILING SPACE.

2. FOR DEVICES LOCATED IN FREE STANDING HALF HEIGHT WALLS, RUN CONDUIT DOWN FROM BOX , UNDER FLOOR, TO NEAREST FULL HEIGHT WALL AND UP INTO THE DROPPED CEILING SPACE.

3. END OF CONDUIT ABOVE CEILING SPACE SHALL HAVE PLASTIC BUSHING. PROVIDE NYLON PULL CORD IN EACH CONDUIT.

SPECIAL SYSTEMS (FIRE ALARM, SOUND, INTERCOM, DATA, VOICE, VIDEO ETC.)

1. PROVIDE FULLY FUNCTIONAL AND OPERATIONAL SYSTEMS. SYSTEMS SHALL MEET ALL APPLICABLE CODES AND STANDARDS, AND APPROVAL OF THE AUTHORITIES HAVING JURISDICTION.

2. DRAWINGS SHOW GENERAL DESIGN CONCEPT ONLY. CONTRACTOR SHALL INCLUDE ALL EQUIPMENT AND WIRING NEEDED FOR COMPLETE SYSTEMS.

3. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.

RESCUE ASSISTANCE SYSTEM (IF REQUIRED)

1. PROVIDE A COMPLETE RESCUE ASSISTANCE SYSTEM, WITH ANNUNCIATOR PANEL (RAAP) AND CALL STATIONS, TOGETHER WITH ALL MISCELLANEOUS ITEMS OF LABOR, ENGINEERING, DESIGN AND MATERIALS NECESSARY FOR PROPER OPERATION, TESTING AND CONTROL OF A COMPLETE OPERABLE SYSTEM.

2. SYSTEM SHALL BE AUDIO VISUAL TYPE.

3. VERIFY LOCATION OF RAAP AND CALL STATIONS WITH AHJ.

4. PROVIDE OPTIONAL BATTERY BACK-UP AND TELEPHONE ACCESS KIT IF REQUIRED BY AHJ.

5. SYSTEM SHALL BE CORNELL 4200 OR APPROVED EQUAL.

RENOVATION/DEMOLITION:

1. EXISTING GROUNDING SYSTEM SHALL BE TESTED AND THE NECESSARY CORRECTIONS SHALL BE MADE TO BRING THE GROUNDING SYSTEM INTO CODE COMPLIANCE.

2. ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES AND JUNCTION BOXES BEING REMOVED MUST BE DEACTIVATED AND THE WIRING SHALL BE REMOVED BACK TO THE NEAREST DEVICE THAT IS CONNECTED TO THE SAME CIRCUIT THAT IS TO REMAIN.

3. ALL EXISTING CONDUIT MUST BE REMOVED FROM THE DEVICE BEING REMOVED TO THE NEAREST DEVICE NOT BEING REMOVED OR BACK TO A POINT WHERE THE CONDUIT ENTERS A WALL, FLOOR OR CEILING NOT BEING REMOVED.

4. REMOVE INDICATED EXISTING ELECTRICAL DEVICES AS SHOWN AND PROVIDE COVER PLATES.

5. THE EXISTING EQUIPMENT MUST REMAIN IN OPERATION DURING CONSTRUCTION. RECONNECT OR TEMPORARILY FEED EXISTING EQUIPMENT.

6. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR TO REFEED OR RECONNECT EXISTING CIRCUITS DISRUPTED BY NEW DEMOLITION WORK THAT ARE REQUIRED TO REMAIN IN OPERATION DURING AND/OR AFTER CONSTRUCTION. THE OWNER MUST APPROVE ANY REQUIRED OUTAGES TO UPGRADE SERVICE OR TO INSTALL EQUIPMENT.

7. ALL NEW WORK SHALL BE CONCEALED IN EXISTING WALLS EXCEPT WHERE SPECIFICALLY NOTED TO BE SURFACE MOUNTED ON EXISTING WALLS.

8. WHERE RACEWAYS MUST BE ADDED TO EXISTING WALLS OR CEILINGS, AND RECESSING IS IMPRACTICAL, CONTRACTOR SHALL INSTALL SURFACE RACEWAYS.

9. SURFACE RACEWAYS SHALL BE ONE PIECE STEEL CONSTRUCTION, NOMINAL DIMENSIONS OF 3/4"W BY 1/2"D. ALL SURFACE FITTINGS AND BOXES SHALL BE SPECIFICALLY DESIGNED AND MANUFACTURED BY THE SURFACE RACEWAY SYSTEM VENDOR.

10. SYSTEM SHALL BE INSTALLED PER MFR'S RECOMMENDATIONS.

11. SYSTEM SHALL BE WIREMOLD V500 OR APPROVED EQUAL.

IDENTIFICATION

1. THE CONTRACTOR SHALL LABEL EQUIPMENT WITH 1/2" DRYM TAPE.

2. ALL MAJOR ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED WHICH SHALL INCLUDE MDP, PANELBOARDS, MOTOR STARTERS, DISCONNECT SWITCHES, SWITCHES, ETC.

3. PROTECTIVE DEVICES IN MDP'S SHALL BE LABELLED WITH THE LOAD SERVED.

4. PROVIDE PANEL AND CIRCUIT NUMBER IDENTIFICATION ON ALL JUNCTION AND PULL BOXES.

5. APPLY THE FACTORY SUPPLIED ARC FLASH WARNING LABELS TO ALL SWITCHBOARDS AND PANELS AS REQUIRED PER NEC 110.16.

6. SERVICE EQUIPMENT SHALL BE LABELED LISTING AVAILABLE FAULT CURRENT.

7. PROVIDE CIRCUIT IDENTIFICATION ON COVER PLATES.

8. PROVIDE NEW TYPEWRITTEN SCHEDULES FOR PANELBOARDS.

AS-BUILT DRAWINGS:

1. PROVIDE AS-BUILT DRAWINGS

TESTS:

1. UPON COMPLETION OF WORK, TEST EACH SYSTEM TO BE FREE OF GROUNDS AND/OR FAULTS. TEST FOR PROPER OPERATION. IF ANY DEFECTS ARE FOUND, TAKE IMMEDIATE ACTION TO REMEDY.

2. CHECK ALL FIXTURES FOR BURNT OUT OR DAMAGED LAMPS AND REPLACE.

GUARANTEE:
CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT AND WIRING TO BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE.

SHOP DRAWINGS
SUBMIT SHOP DRAWINGS FOR THE FOLLOWING EQUIPMENT FOR APPROVAL BY THE ENGINEER:

1. PANELBOARDS
2. WIRING DEVICES
3. LIGHT FIXTURES
4. LIGHTING DIMMING CONTROLS
5. EXTERIOR LIGHTING CONTROLLER
6. GENERATOR – ALTERNATE
7. AUTOMATIC TRANSFER SWITCH –ALTERNATE
8. FIRE ALARM SYSTEM
9. RESCUE ASSISTANCE SYSTEM (IF REQUIRED)

GENERATOR – ALTERNATE:

1. NATURAL GAS LIQUID COOLED ENGINE GENERATOR

2. CONTINUOUS STANDBY RATING OF 70 KW WITH 130KW ALTERNATOR, AT 208/120V, 3 PHASE, 4 WIRE, 60 HZ, 0.8PF. WITH MAIN LINE CIRCUIT BREAKER(S).

3. EQUIPMENT BASE, AND HAVE BEVELED EDGES.

4. GENERATOR SHALL BE 4 POLE. ROTATING FIELD WITH CLASS H INSULATED ROTOR AND STATOR. VOLTAGE REGULATION NO LOAD TO FULL LOAD SHALL BE +/- 2%.. BRUSHLESS EXCITATION WITH PLUS/MINUS 1% REGULATION. ENGINE SHALL BE NATURALLY ASPIRATED, PRESSURIZED CLOSED RECOVERY COOLING SYSTEM. ELECTRONIC GOVERNOR WITH FREQUENCY REGULATION, NO-LOAD TO FULL-LOAD = 0.5%. STEADY STATE REGULATION = PLUS/MINUS 0.5%.

5. SOUND ATTENUATION.

6. GENERATOR FUEL SYSTEM SHALL BE CONFIGURED TO ACCOMMODATE A 7"-11" H2O FUEL PRESSURE. BATTERY TRAY, CHARGER, CABLES, AND 12V, 90AH BATTERIES

7. THERMOSTATICALLY CONTROLLED WATER JACKET HEATER.

8. HOUSING SHALL BE WEATHER PROTECTIVE, LOCKING TYPE WITH MUFFLER AND RAIN CAP. MUFFLER SHALL BE LOCATED WITHIN ENCLOSURE.

9. CONTROL PANEL.

10. EMERGENCY STOP BUTTON.

11. DESIGNED FOR USE WITH GENERATOR REMOTE ANNUNCIATOR PANEL.

12. SYSTEM SHALL BE INSTALLED PER MFR'S RECOMMENDATIONS.

13. PROVIDE CONCRETE PAD. PAD SHALL EXTEND 6" BEYOND EQUIPMENT BASE, AND HAVE BEVELED EDGES.

14. GENERATOR SHALL MEET NFPA 110.

15. THE GENERATOR SET SHALL BE SUBJECTED TO A FOUR HOUR LOAD TEST UTILIZING PORTABLE RESISTIVE LOAD BANKS. TWO CONTINUOUS HOURS OF THIS SHALL BE AT FULL RATED OUTPUT. RECORD VOLTS, AMPS, FREQUENCY, KW, COOLANT TEMPERATURE, OIL PRESSURE AND AMBIENT TEMPERATURE EACH 15 MINUTES DURING THE TEST. LOAD BANKS SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER WITH CABLEING BY THE INSTALLING CONTRACTOR.

16. PERFORM OPERATIONAL TEST UTILIZING BUILDING LOAD. CHECK AUTOMATIC TRANSFER SWITCHES FOR PROPER OPERATION. VERIFY LOADS CONNECTED TO GENERATOR SYSTEM ARE FUNCTIONING.

17. SHALL BE MANUFACTURED BY GENERAC.

AUTOMATIC TRANSFER SWITCH FOR GENERATOR – ALTERNATE:

1. AUTOMATIC TRANSFER SWITCH SHALL BE 200A, 250V (MIN) 3 POLE, SOLID NEUTRAL, ELECTRICALLY OPERATED AND MECHANICALLY HELD. DESIGNED FOR USE WITH GENERATOR REMOTE ANNUNCIATOR PANEL.

2. WEEKLY EXERCISER

3. INDICATING LIGHTS FOR SWITCH POSITION – NORMAL, EMERGENCY AND STANDBY OPERATING

4. NEMA 1 ENCLOSURE

5. PROVIDE AUXILIARY CONTACTS TO INDICATE SWITCH POSITION. TWO CONTACTS FOR NORMAL POSITION AND TWO CONTACTS FOR EMERGENCY POSITION.

6. THREE-POSITION SWITCH – FAST TEST, AUTO, NORMAL TEST

7. SYSTEM SHALL BE INSTALLED PER MFR'S RECOMMENDATIONS.

8. ASCO, CUMMINS, OR GENERAC.

GENERATOR REMOTE ANNUNCIATOR PANEL (GRAP) – ALTERNATE:

1. GRAP SHALL INCLUDE ALARM HORN, ALARM SILENCE SWITCH AND LAMP TEST SWITCH

2. GRAP SHALL INCLUDE THE FOLLOWING INDICATORS: PREALARM HIGH ENGINE TEMP, PREALARM LOW OIL PRESSURE, LOW WATER TEMP, LOW FUEL, HIGH ENGINE TEMP, LOW OIL PRESSURE, EMERGENCY STOP, OVERSPEED, BATTERY CHARGER FAULT, LOW BATTERY VOLTAGE, AUXILIARY FAULT, OVERCRANK, LINE POWER, GENERATOR POWER, SYSTEM READY AND GENERATOR SWITCH NOT IN AUTO.

3. GRAP SHALL BE (FLUSH) SURFACE MOUNT.

ALTERNATE