

Autodesk Docs\343100600-Lodi Warehouse IT Office Addition\343100600-A-USD-WHS-IT-OFFICE-ADD.rvt 1/29/2025 9:29:13 AM

LODI UNIFIED SCHOOL DISTRICT WAREHOUSE IT OFFICE ADDITION

851 GUILD AVENUE, LODI, CA 95240

GENERAL NOTES

- CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
- PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
- VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS; INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS. SECTIONS OR DETAILS ON THE DRAWINGS.
- DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED, REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
- PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
- ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR).
- THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC. WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURRING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTORS DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE USA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
- CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) AND APPROVED BY AHJ. A CITY INSPECTOR SHALL PROVIDE INSPECTION OF WORK AS REQUIRED BY THE CBC AND AHJ.
- A TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, AND THE CITY INSPECTOR.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CITY LODI APPROVED CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY AHJ BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT) (SCH NO. 2002071120) INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT, NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.

CODES

PARTIAL LIST OF APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2021	INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2022 CALIFORNIA AMENDMENTS
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2020	NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2021	UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS
2022	CALIFORNIA HISTORICAL BUILDING CODE (CHBC), PART 8, TITLE 24 C.C.R.
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
2021	INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS
2022	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
2021	INTERNATIONAL EXISTING CODE AND 2022 CALIFORNIA AMENDMENTS
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022	CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19	C.C.R., PUBLIC SAFETY, STATE FIRE DEPARTMENT REGULATIONS, AND INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT.
2019	ASME A17.1/BA44-19 SAFETY CODE FOR ELEVATORS AND ESCALATORS.
2020	ASME 18.1 - SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIR LIFTS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED)	2022 ED.
NFPA 14	STANDARD FOR STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2019 ED.
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 20	STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION	2019 ED.
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 ED.
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2019 ED.
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2022 ED.
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 ED.
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2018 ED.
UL 300	STANDARD FOR FIRE TESTING OF BUILDING ASSEMBLIES (R2014)	
UL 464	AUDIBLE SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING MEASURES INCLUDING ACCESSORIES	2003 ED.
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ED. (R2005)
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED. (R2018)
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESOPING SEATING AND GRANDSTANDS	2017 ED.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 36 AND CALIFORNIA FIRE CODE CHAPTER 80.

PROJECT DATA

- PROJECT ADDRESS: 851 S GUILD (Industrial Way) AVE, LODI, CA
- PARCEL #: 04031027
- PROPERTY OWNER: Lodi Unified School District

BUILDING DATA

- DESCRIPTION OF USE: Existing, District Warehouse; remodel portion to office space
- OCCUPANCY GROUP(S): Existing, assumed S-2; remodel Group B, separated occupancies
- TYPE OF CONSTRUCTION: Existing, assumed SB
- SPRINKLERS: Existing, yes
- STORIES: Existing, 1
- FLOOR AREA: Existing, approx 50,000 SF; 720 SF REMODEL
- OCCUPANT LOAD: Existing, approx 100 (warehouse OLF=500); 5 (Business OLF=150); 3 ADDITIONAL

SEPARATE APPROVALS

- ALTERATIONS TO THE EXISTING FIRE SPRINKLER SYSTEM ARE REQUIRED AND SHALL BE SUBMITTED UNDER A SEPARATE PERMIT AND COVER TO THE BUILDING DEPARTMENT BY A C016 LICENSED CONTRACTOR.

SHEET INDEX

NUMBER	NAME
GENERAL SHEET	
G0.10	COVER SHEET
1	
ARCHITECTURE	
A1.10	PROJECT SITE PLAN
A2.10	OVERALL FLOOR PLAN
A2.11	PARTIAL DEMOLITION FLOOR PLAN
A2.12	PARTIAL IMPROVEMENT AND FINISH FLOOR PLAN
A3.11	PARTIAL REFLECTED CEILING PLAN
A4.11	ROOF PLAN
A6.11	PARTIAL BUILDING SECTIONS
A8.11	INTERIOR ELEVATIONS
A9.11	DOOR, WINDOW AND AIA MATERIALS PLEDGE SCHEDULE
A10.11	TYPICAL WALL AND WALL OPENING DETAILS
A10.31	TYPICAL CEILING DETAILS
A10.71	TYPICAL ACCESSORY ITEM TYPES AND MOUNTING HEIGHTS
12	
STRUCTURAL*	
S0.01	TYPICAL STRUCTURAL NOTES
S0.02	TYPICAL METAL STUD FRAMING & MISCELLANEOUS DETAILS
S2.11	FOUNDATION & CEILING FRAMING PLANS SECTION & WALL FRAMING ELEVATIONS DETAILS
S4.11	
4	
FIRE PROTECTION*	
FP.0.1	FIRE SPRINKLERPLAN
MECHANICAL*	
M.0	MECHANICAL SCHEDULES, DETAILS, & GEN. NOTES
M.1.1	MECHANICAL IMPROVEMENT PLAN
2	
ELECTRICAL*	
E0.0	ELECTRICAL ONE-LINE DIAGRAM, DETAILS, & GEN. NOTES
E0.1	ELECTRICAL SCHEDULES
E1.0	ELECTRICAL OVERALL PLAN
E1.1	ELECTRICAL IMPROVEMENT PLAN POWER & SIGNAL
E1.2	ELECTRICAL IMPROVEMENT PLAN LIGHTING
5	
ENERGY*	
EN0.0	ENERGY COMPLIANCE
EN0.1	ENERGY COMPLIANCE
2	
Grand total:	27

SYMBOL LEGEND

NORTH ARROW

TICK INDICATES PLAN NORTH
ARROW INDICATES TRUE NORTH

ELEVATION CALLOUT
(TYPICAL FOR EXTERIOR)

LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT
(TYPICAL FOR INTERIOR)

LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT - ALT.
(TYPICAL FOR INTERIOR)

LOCATION & SHEET WHERE ELEVATION IS DRAWN

SECTION CALLOUT

INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT

INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT

NAME OF ELEVATION (IF APPLICABLE)
ELEVATION ABOVE FINISHED FLOOR

GRID BUBBLE

EXISTING BUILDING GRID SYMBOL
GRID NUMBER
NEW BUILDING GRID SYMBOL

DOOR CALLOUT

DOOR NUMBER

INTERIOR FINISH CALLOUT

MATERIAL FINISH TYPE
(SEE FINISH SCHEDULE)

WINDOW CALLOUT

WINDOW NUMBER
(SEE WINDOW SCHEDULE)

WALL TYPE CALLOUT

WALL TYPE MARK - SEE A10.11
WALL STC RATING
WALL FIRE RATING TYPE

MATCHLINE REFERENCE

LOCATION ON SHEET
SHEET WHERE PLAN IS DRAWN

KEYNOTE

KEYNOTE NUMBER (SEE LEGEND ON SHEET)

ROOM EXISTING INFORMATION

AREA (SQ FT)
OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR)
OCCUPANT LOAD FACTOR (REFER TO TABLE 1004.5)
OCCUPANCY TYPE
NUMBER OF EXITS REQUIRED (REFER TO TABLE 1006.2.1)

WIC CASEWORK TAG

MANUFACTURER REFERENCE AND MODEL NUMBER

MATERIAL TAG

MATERIAL SUBSTRATE
COLOR NUMBER - SEE FINISH SCHEDULE
MATERIAL - SEE FINISH SCHEDULE

DISCIPLINE	SHEET TYPE	BUILDING LETTER, SEGMENT, (USER DEFINED)
G GENERAL	0 CODE ANALYSIS, NOTES	
C CIVIL	1 SITE PLAN	
L LANDSCAPE	2 FLOOR PLAN	
A ARCHITECTURE	3 CEILING PLAN	USED ONLY IF REQUIRED
I INTERIORS	4 ROOF PLAN	IF NOT COLLISION IS
Q EQUIPMENT	5 EXTERIOR ELEVATIONS	OMITTED.
S STRUCTURAL	6 SECTIONS	
P PLUMBING	7 DIMENSIONED PLANS	
M MECHANICAL	8 INTERIOR ELEVATIONS	
E ELECTRICAL	9 SCHEDULES	
FA FIRE ALARM	10 DETAILS	
T TELECOM		
K KITCHEN		
FP FIRE PROTECTION		

DISCIPLINE	SHEET TYPE	SERIES / ORDER	USER DEFINED (IF APPLICABLE)
A	A	1	1
A	A	1	1
A	A	1	1

BUILDING LETTER (IF APPLICABLE) FLOOR LEVEL OR SEQUENTIAL ORDER SEGMENT (IF APPLICABLE)

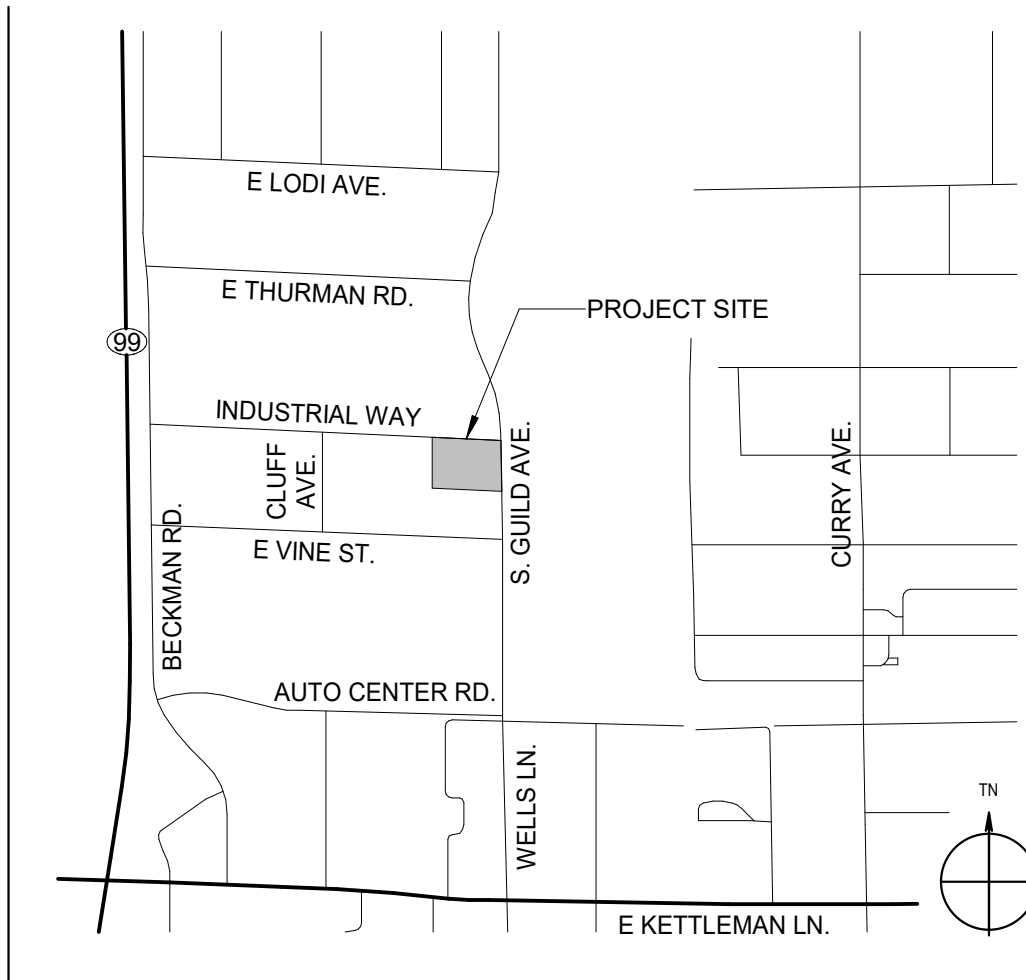
ABBREVIATIONS

(E) EXISTING	FRP FIBERGLASS REINFORCED PLASTIC	PTC POST TENSIONED CONCRETE
AB ANCHOR BOLT	FRT FIRE RETARDANT TREATED	PTD PAPER TOWEL DISPENSER
AC PAVING	FS FINISH SURFACE	PTN PARTITION
ACC ACCESSIBLE	FTG FOOTING	PVC PNEUMATIC TUBE STATION / SYSTEM
ACP ACoustical CEILING PANEL	GB GRAB BAR	PVT POLYVINYL CHLORIDE
ACT ACoustical CEILING TILE	GFR GLASS FIBER REINFORCED CONCRETE	PVMT PAVEMENT
ADJ ADJACENT/ADJUSTABLE	GL GLUE LAMINATED BEAM	QT QUARRY TILE
AFF ABOVE FINISH FLOOR	GYP BD GYPSUM BOARD	R RADIUS, RISER
AGG AGGREGATE	GYP PLAS GYPSUM PLASTIC	RB RESILIENT BASE
AHU AIR HANDLING UNIT	HDR HEADER	RD ROOF DRAIN
ARCH ARCHITECTURAL	HD HOSE BIBB	RECEPT RECEPTACLE
ATT ATTENUATION	HDV HEAVY DUTY	REF REFERENCE
AUTO AUTOMATIC	HDR HARDWARE	REFL REFLECTED, (IVE)
BD BOARD	HGT HEIGHT	REFL REFLECTED, (IVE)
BLCG BLOCKING	HIM HOLLOW METAL	REFR REFRIGERATOR
BUR BUILT UP ROOFING	HSS HOLLOW STEEL SECTION	REIN REINFORCE/REINFORCED/ REINFORCEMENT
CABT CABINET	INT INTERIOR	REM REMOVE
HP HOLLOW METAL	INV INVERT	RH ROUND HEAD
CFC CUBIC FEET	LANDS LANDSCAPE	RHS ROUND HEAD SCREW
CF CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	LAV LAVATORY	RO ROUGH OPENING
CFOI CONTRACTOR FURNISHED, OWNER INSTALLED	LLH LONG LEG HORIZONTAL	ROW RIGHT OF WAY
CG CORNER GUARD	LLV LONG LEG VERTICAL	SCH SCHEDULE (FOR PIPE)
CJ CONTROL JOINT	LP LOW POINT	SCHED SCHEDULE / SCHEDULING
CL CENTER LINE	LT WT LIGHT WEIGHT	SD STORM DRAIN / SOAP DISPENSER
CLF CHAIN LINK FENCE	MACH MACHINE	SECT SECTION
CLR CLEAR	MB MACHINE BOLT	SG SAFETY GLASS
CMU CONCRETE MASONRY UNIT	MDF MEDIUM DENSITY FIBERBOARD	SHT SHEET
CO CLEANOUT	MDO MEDIUM DENSITY OVERLAY	SHTG SHEATHING
COLL COLLIM	MECH MECHANICAL	SMS SHEET METAL SCREW
COMP COMPRESSION / COMPOSITE	MED MEDIUM	SND SANITARY WAPN DISPOSAL
CF CUBIC FEET	MEMB MEMBRANE	SOV SHUT OFF VALVE
COORD COORDINATE	MFR MANUFACTURER	SPEC SPECIFICATIONS
CORR CORRUGATED	MH MANHOLE	SS STAINLESS STEEL
CTSK CERAMIC TILE	MO MOUNTED	STC SOUND TRANSMISSION CLASS
CW COUNTER SKUNK	MTA METAL	STL STEEL
DEPR DEPRESSED / DEPRESSION	MTD MOUNTED	STMS SELF TAPPING SHEET METAL
DF DRINKING FOUNTAIN	NIC NOT IN CONTRACT	SUSP SUSPENDED
DIM DIMENSION	NR NON RATED	SV SHEET VINYL
DISP DISPENSER	NTS NOISE REDUCTION COEFFICIENT	SYM SYMMETRICAL
DTL DETAIL	O/ OVER	T TREAD
DW DISHWASHER	OIA OVERALL	T&B TOP AND BOTTOM
E/W EACH WAY	OC ON CENTER	TO TOP OF
EIFS EXTERIOR INSULATION FINISH	OD OUTSIDE DIAMETER	TOC TOP OF CURB / CONCRETE
SYSTEM	OFICI OWNER FURNISHED, CONTRACTOR INSTALLED	TOP TOP OF PARAPET
EJ EXPANSION JOINT	OFVI OWNER FURNISHED, VENDOR INSTALLED	TOS TOP OF STEEL
ELEC ELECTRICAL	OH OPPOSITE HAND	TOW TOP OF WALL
ELEV ELEVATION / ELEVATOR	OPER OPERABLE	TPO TOILET PAPER DISPENSER
ENCL ENCLOSE / ENCLOSURE	OPNG OPENING	TS TACKABLE SURFACE
EOS EDGE OF SLAB	ORD OVERFLOW ROOF DRAIN	UIC UNDER CABINET (OR COUNTER UNLESS NOTED OTHERWISE)
EP ELECTRICAL PANEL	PA PUBLIC ADDRESS	UR URINAL
EQ EQUAL	PAP POWDER ACTUATED FASTENER	VAC VACUUM
ESC EXCUT/CHON	PCC PORTLAND CEMENT CONCRETE	VB VAPOR BARRIER
EW ELECTRIC WATER COOLER	PED PEDESTRIAN	VCT VINYL COMPOSITION TILE
EXP EXPOSED	PERF PERFORATED	VIF VERIFY IN FIELD
FA FIRE ALARM	PERIM PERIMETER	VRD VENT THROUGH ROOF
FDC FIRE DEPARTMENT CONNECTION	PH PANIC HARDWARE	VWC VINYL WALL COVERING
FEC FIRE EXTINGUISHER W/ CABINET	PIV POST INDICATOR VALVE	W WITH
FF FINISH FLOOR	PL PLATE	WB WOOD BASE
FG FINISH GRADE	PLAM PLASTIC LAMINATE	WC WOOD CLOSET
FH FIRE HYDRANT	PLAS PLASTIC	WDW WINDOW
FHC FIRE HOSE CABINET	PLUMB PLUMBING	WGT WEIGHT
FSH FLAT HEAD SCREW	PNL PANEL	WH WATER HEATER
FIN FINISH	PNT PAINT / PAINTED	WP WATERPROOFING/WALL PROTECTION
FLR FLOOR	POC POINT OF CONNECTION	WR WATER RESISTANT
FOC FACE OF CONCRETE	PREFIN PREFINISHED	WRGB WATER RESISTANT GYPSUM BOARD
FOF FACE OF FINISH	PREP / PREPARATION	WS WOOD SCREW
FOM FACE OF MASONRY		WSC WAINSCOT
FOS FACE OF STUD		WWF WELDED WIRE FABRIC
FP FIREPROOFING		
FRG FIRE RATED		
FRG FIRE RATED GLASS		

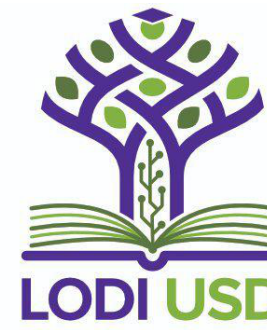
PROJECT DESCRIPTION

- CONSTRUCTION OF AN IT OFFICE WITHIN THE EXISTING DISTRICT WAREHOUSE INCLUDING MECHANICAL, ELECTRICAL, AND OTHER ITEMS SHOWN WITHIN THE PROJECT DOCUMENTS.

VICINITY MAP



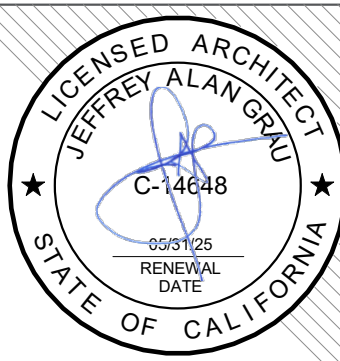
AGENCY APPROVAL:



HMC Architects

3431006000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA 95816
(916) 368 7990 / www.hmcarchitects.com



PROJECT TEAM

OWNER
LODI UNIFIED SCHOOL DISTRICT

1305 E VINE ST., LODI, CA 95240
(209) 331-7000

ARCHITECT
HMC ARCHITECTS

2101 CAPITOL AVE, SUITE 100, SACRAMENTO, CA 95816
(916) 368-7990

STRUCTURAL
RW CONSULTING ENGINEERS INC.

1450 HARBOR BLVD, SUITE F, WEST SACRAMENTO, CA 95691
(916) 229-8345

MECHANICAL, ELECTRICAL & FIRE SPRINKLERS
OPTIMIZED ENERGY & FACILITIES CONSULTING

5734 LONETREE BLVD, ROCKLIN, CA 95765
(916) 226-5518

FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
COVER SHEET

CONSTRUCTION DOCUMENTS

DATE: 2024.06.21

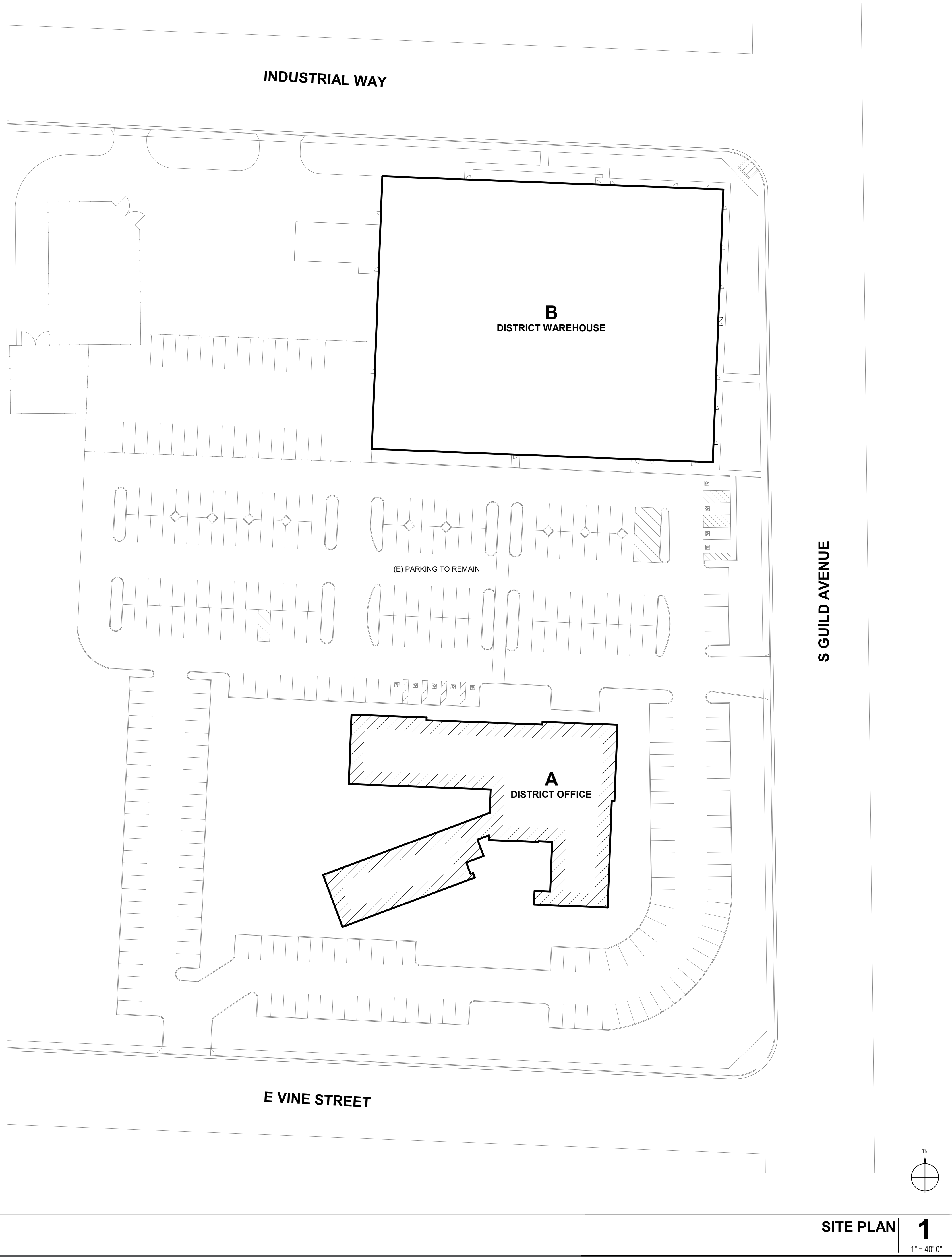
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SHEET:

G0.10

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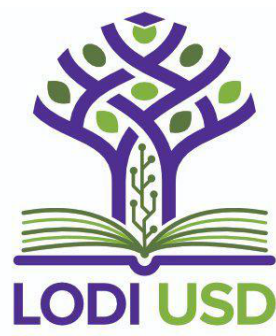


LEGEND

EXISTING BUILDINGS

EXISTING BUILDINGS (NOT IN SCOPE)

AGENCY
APPROVAL:



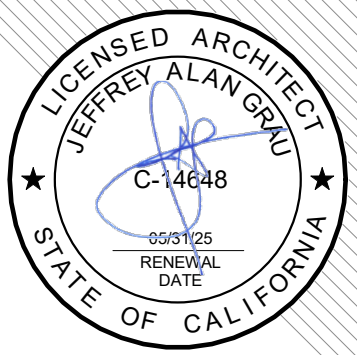
HMC Architects

3431006000

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SACRAMENTO, CA. 95816
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ISSUE

DESCRIPTION	DATE
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FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
PROJECT SITE PLAN

CONSTRUCTION DOCUMENTS

DATE: xxx.xxx.xx CLIENT PROJ NO:

SHEET:

SITE PLAN **1**
1" = 40'-0"

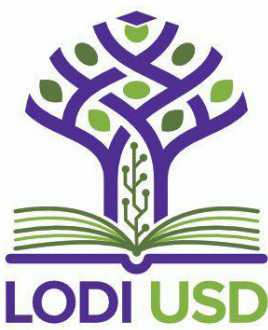
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THIS LINE SHOWS AN OVERALL FLOOR PLAN
SHEET'S ORIGINAL PAGE SIZE

LEGEND - OVERALL PLANS

- EXISTING ELEMENT TO REMAIN
NON-RATED PARTITION
1 HR FIRE BARRIER

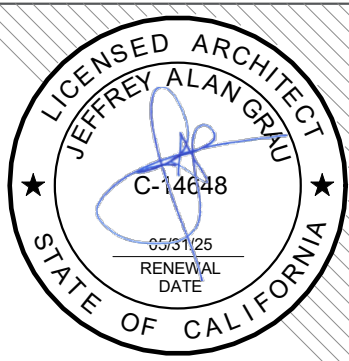
AGENCY
APPROVAL:



HMC Architects

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SACRAMENTO, CA, 95816
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ISSUE

DESCRIPTION	DATE
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GENERAL NOTES

- REFER TO SHEET G0.10 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
- REFER TO G-SERIES SHEETS FOR ADDITIONAL INFORMATION AND CODE REQUIREMENTS.
- FOR ADDITIONAL ELEVATION CALLOUTS, SEE ENLARGED PLANS.
- REFER TO PARTIAL PLANS FOR MORE INFORMATION. OVERALL PLANS ARE INTENDED TO PROVIDE CONTEXT FOR PARTIAL PLANS.

SHEET NOTES

SN.01 (E) WALK-IN COOLER/FREEZER
SN.02 NO SCOPE

FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
OVERALL FLOOR PLAN

CONSTRUCTION DOCUMENTS

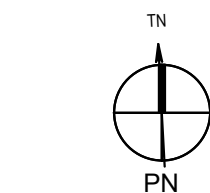
DATE: 2024.06.21
CLIENT PROJ NO:

SHEET:

OVERALL FLOOR PLAN

1

1/16" = 1'-0"



PLEASE RECYCLE

A2.10

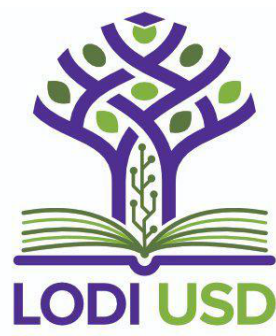
Autodesk Docs:13431006000-Lodi USD Warehouse IT Office Addition3431006000-A-USD-WH51T-OFFICE-ADD-V1
1/29/2025 9:28:01 AM

THE LINE SHOWN ABOVE THE
EXISTING CHAIN LINK FENCE
SHOULD BE MAINTAINED
SHEET: DRAWING PAGE SIZE

LEGEND - DEMOLITION PLANS

EXISTING ELEMENT TO REMAIN
EXISTING ELEMENT TO BE DEMOLISHED

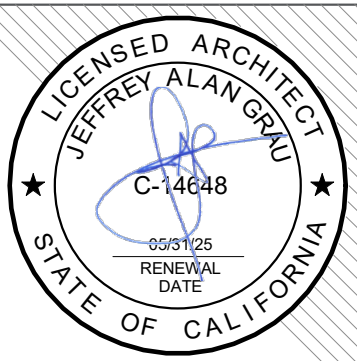
AGENCY
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GENERAL DEMOLITION NOTES

- PROTECT ALL ADJACENT SURFACES, ITEMS, AND FINISHES NOT NOTED TO BE DEMOLISHED.
- EQUIPMENT NOTED AS "EXISTING TO BE REINSTALLED" SHALL BE REMOVED AND STORED BY THE CONTRACTOR PRIOR TO START OF DEMOLITION. CONTRACTOR SHALL NOTIFY OWNER PRIOR TO EQUIPMENT DISCONNECT AND TEST EQUIPMENT. FUNCTION, CONDITIONS, AND WORKABILITY WITH THE OWNER'S REPRESENTATIVE PRIOR TO DISCONNECT AND STORAGE. THIS EQUIPMENT SHALL BE REINSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT.
- REMOVE ALL ITEMS SCHEDULED TO BE REMOVED INCLUDING MOUNTING HARDWARE, ABANDONED SWITCHES, WIRING AND SURFACE MOUNTED CONDUIT. SURFACES SHALL BE CLEANED AND PREPARED TO RECEIVE NEW WORK. WHERE EXISTING FINISHES ARE TO REMAIN, INSTALL BLANK COVER PLATES OVER ABANDONED OUTLET BOXES AND PATCH EXISTING FINISHES AS REQUIRED.
- REMOVE OR MODIFY ALL ITEMS REQUIRED TO INSTALLED NEW WORK WHETHER OR NOT SPECIFICALLY SHOWN TO BE REMOVED OR MODIFIED.

DEMOLITION NOTES

- DN.01 REMOVE EXISTING CHAIN LINK FENCE IN ITS ENTIRETY. PATCH AND REPAIR FINISHES AT POINTS OF ANCHORAGE.
- DN.02 REMOVE EXISTING PALLET RACK AND RETURN TO OWNER. PATCH AND REPAIR FINISHES AT POINTS OF ANCHORAGE.
- DN.03 REMOVE ALL WALL-MOUNTED ELECTRICAL EQUIPMENT (IDF CABINET, ELECTRICAL PANEL, ETC.) AND SALVAGE FOR REINSTALLATION. STORE AND PROTECT ALL ITEMS. PATCH AND REPAIR WALL, AND PREPARE TO RECEIVE NEW WORK. SEE ELECTRICAL DRAWINGS FOR SPECIFICS.
- DN.04 REMOVE EXISTING MARKERBOARD AND RETURN TO OWNER. PATCH AND REPAIR FINISHES AT POINTS OF ANCHORAGE.

FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
PARTIAL DEMOLITION FLOOR PLAN

CONSTRUCTION DOCUMENTS

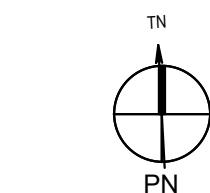
DATE: 2024.06.21
CLIENT PROJ NO:

SHEET:

PARTIAL DEMOLITION FLOOR PLAN

1

1/8" = 1'-0"



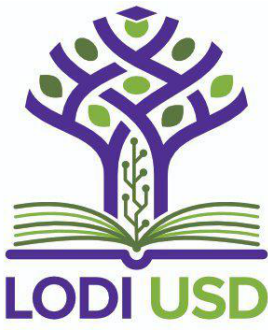
PLEASE RECYCLE

A2.11

Autodesk Docs:13431006000-Lodi USD Warehouse IT Office Addition13431006000-A-USD-WHS-IT OFFICE-ADD-V1
1/29/2025 9:28:02 AM

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EXISTING ELEMENT TO REMAIN
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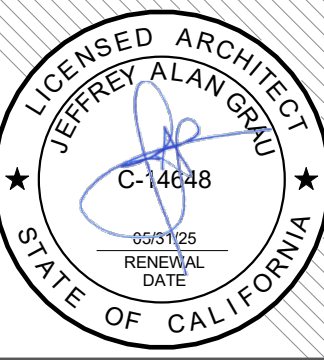
AGENCY
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ISSUE

Δ	DESCRIPTION	DATE
1	CITY BACKCHECK #1	12-10-2024
2	CITY BACKCHECK #2	01-28-2025

GENERAL NOTES

- ALL DIMENSIONS ARE TO CENTER OF STUD U.O.N.
- REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- REFER TO WINDOW SCHEDULE FOR ADDITIONAL INFORMATION.
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING FINISHES AND HEIGHTS.
- REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.
- THE BASE AT LOWER CABINETS IS TO MATCH THE WALL BASE OF THE ROOM IN WHICH THEY OCCUR U.O.N.
- ALL EXPOSED PIPING, LOUVERS, GRILLES, REGISTERS, AND CONDUITS TO BE PAINTED TO MATCH ADJACENT WALL SURFACES. U.O.N.
- REFER TO SHEET A9.11 FOR FINISH SCHEDULE.

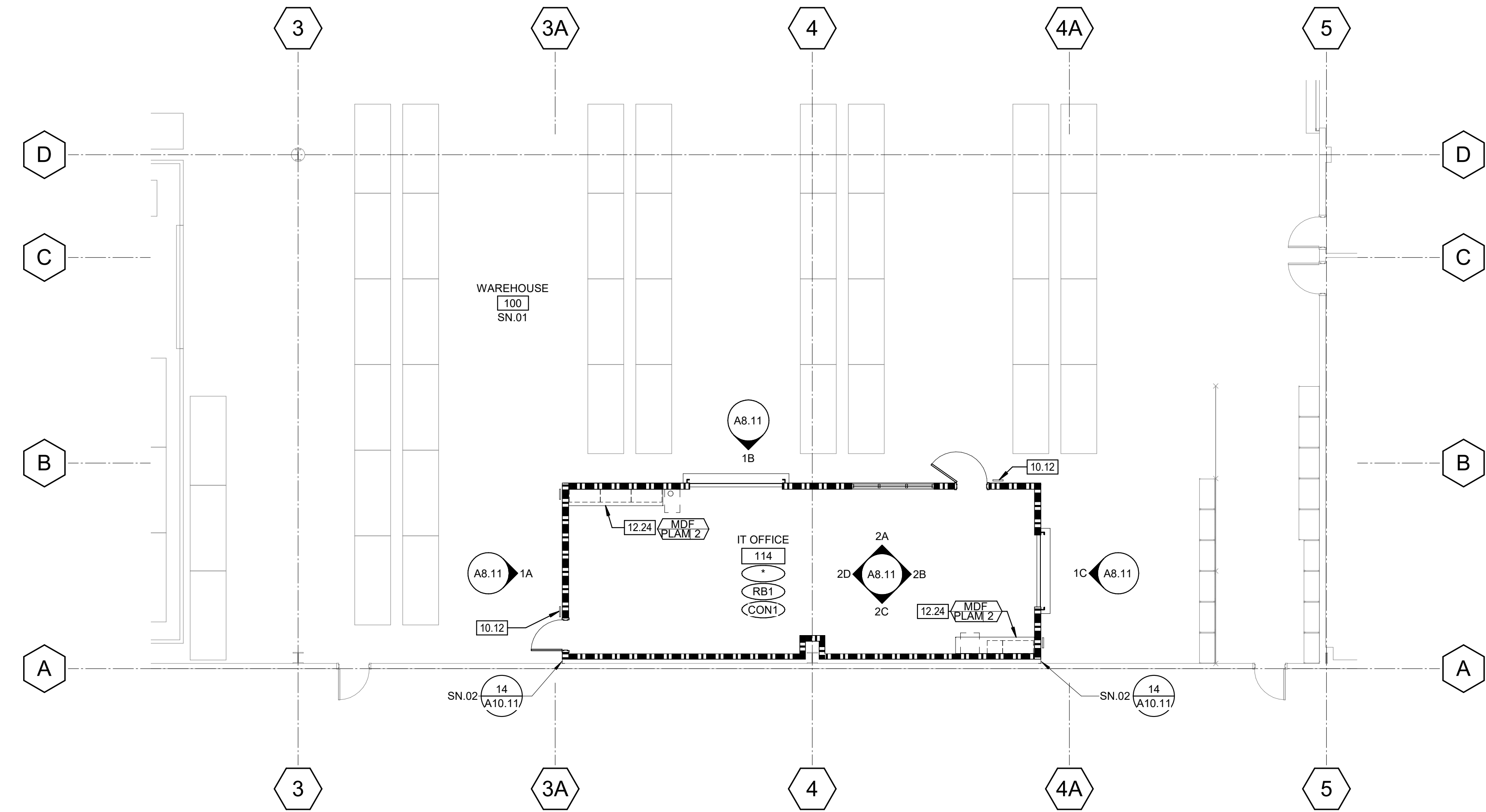
KEYNOTES

- 08.21 OVERHEAD COILING DOORS (MOTOR OPERATED)
10.12 ROOM IDENTIFICATION SIGN
10.83 SURFACE MOUNTED FIRE EXTINGUISHER
12.24 PLASTIC LAMINATE CLAD COUNTERTOP

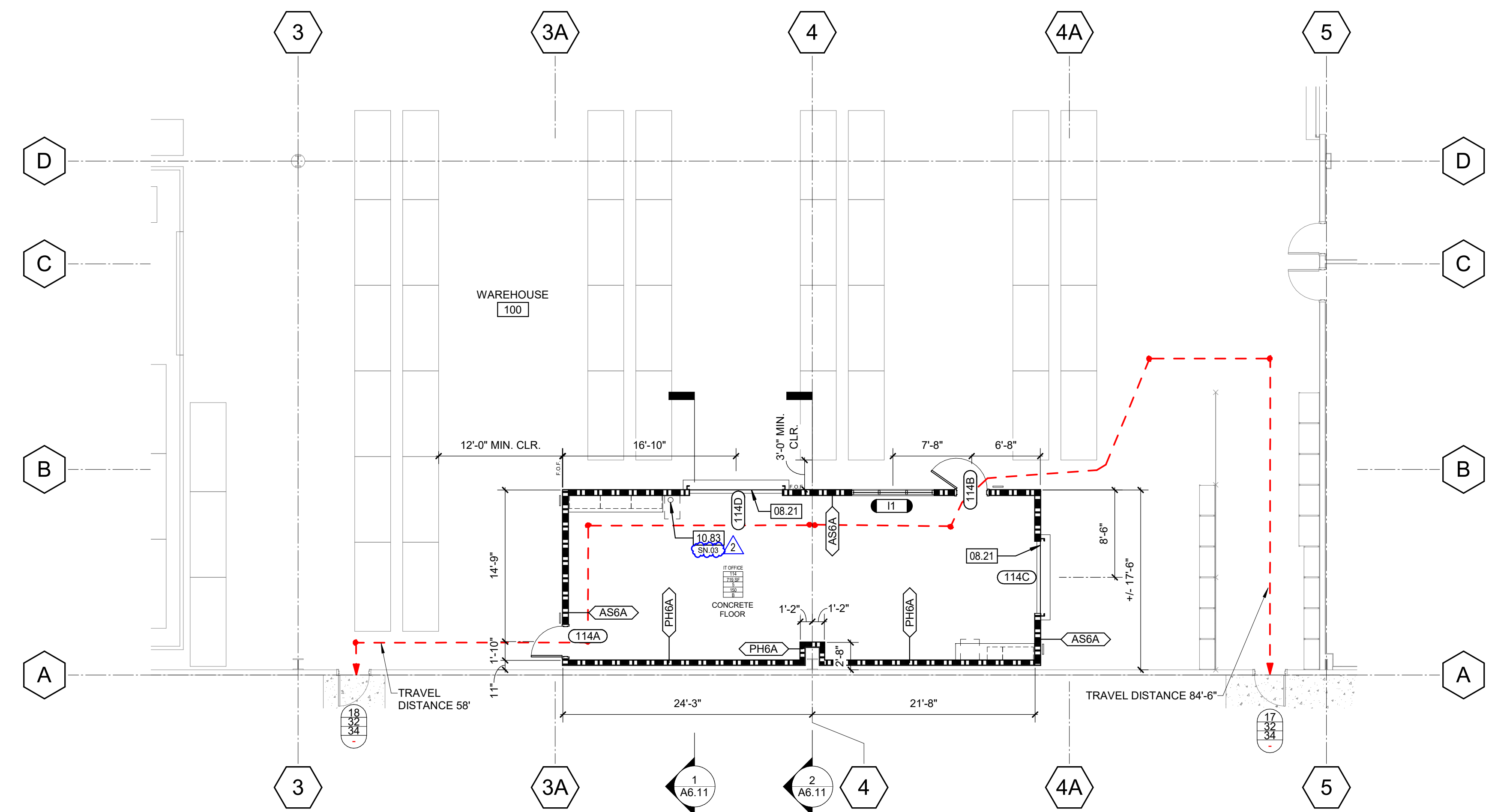
SHEET NOTES

- SN.01 NO FINISH SCOPE. PATCH AND REPAIR EXISTING FINISHES AS NECESSARY FROM DEMOLITION AND IMPROVEMENT SCOPE.

SN.02 METAL COVER
SN.03 TYPE 2A-08-C



PARTIAL FINISH AND SIGNAGE PLAN 2
1/8" = 1'-0"



PARTIAL IMPROVEMENT FLOOR PLAN 1
1/8" = 1'-0"

FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
PARTIAL IMPROVEMENT AND FINISH FLOOR PLAN

CONSTRUCTION DOCUMENTS

DATE: 2024.06.21
CLIENT PROJ NO:

SHEET:

A2.12

PLEASE RECYCLE

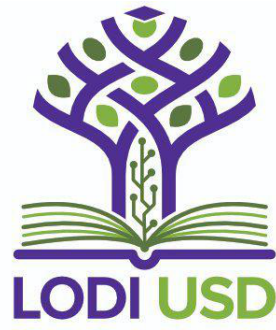
Autodesk Docs: \\3431006000-Lodi USD Warehouse IT Office Addition\\3431006000-A-USD-WH5-IT-OFFICE-ADD.rvt 1/29/2025 9:29:03 AM

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LEGEND - REFLECTED CEILING PLANS

- EXISTING PARTITION TO REMAIN
- PARTITION
- GYP SUM BOARD
REF: CEILING TAGS
- 24"x48" ACOUSTIC PANEL CEILING SYSTEM
REF: CEILING TAGS AND SPECIFICATIONS
- RECESSED LIGHT FIXTURE
- FIRE SPRINKLER
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- HEIGHT ABOVE FINISH FLOOR
- CEILING FINISH
- CEILING TYPE

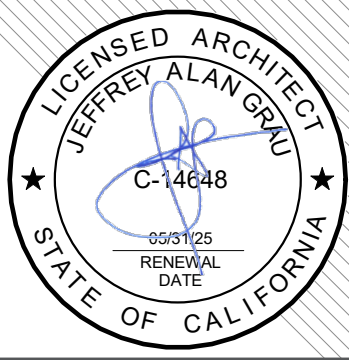
AGENCY
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DESCRIPTION	DATE
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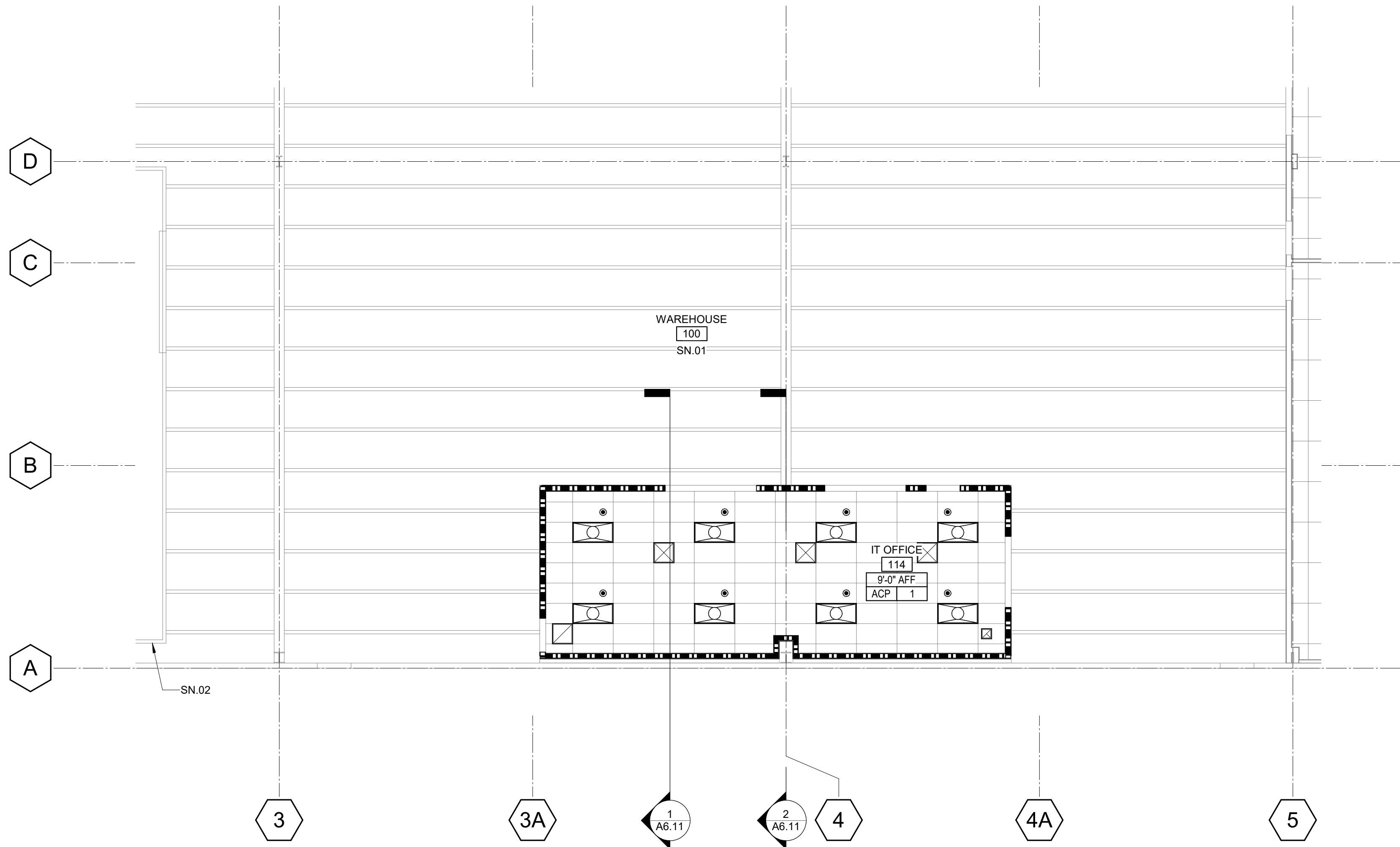
KEYNOTES

NOTES

- LAYOUT ACOUSTIC CEILING PANEL GRID FROM CENTER OF ROOMS, BOTH DIRECTIONS, U.N.O.
- SEE A10.3 SERIES SHEETS FOR TYPICAL CEILING DETAILS.
- LIGHT FIXTURES AND MECHANICAL REGISTERS ARE SHOWN FOR LOCATION PURPOSES ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- CENTER ALL LIGHTING FIXTURES IN ROOMS AS SHOWN, U.N.O.

SHEET NOTES

- SN 01 (E) WALK-IN COOLER/FREEZER
SN 02 NO SCOPE



PARTIAL REFLECTED CEILING PLAN

1

1/8" = 1'-0"

PLEASE RECYCLE

FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
PARTIAL REFLECTED CEILING PLAN

CONSTRUCTION DOCUMENTS

DATE: 2024.06.21
CLIENT PROJ NO:

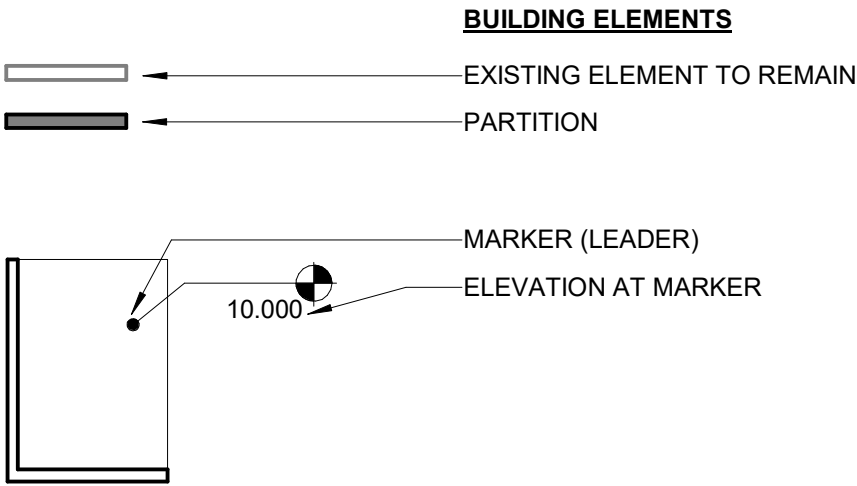
SHEET:

A3.11

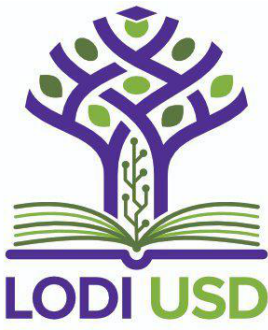
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LEGEND - ROOF PLANS



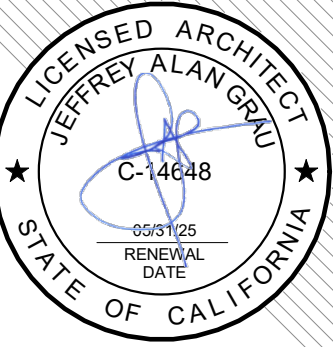
AGENCY
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ISSUE

Δ	DESCRIPTION	DATE
1	CITY BACKCHECK #1	12-10-2024

GENERAL ROOF NOTES

- ITEMS FROM MECHANICAL, PLUMBING, AND ELECTRICAL SCOPES MAY BE SHOWN FOR REFERENCE AND COORDINATION ONLY. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PIPING, CURBS, VENTS, DUCTS, FANS, AND OTHER ITEMS ON THE ROOF SURFACE

NOTES

FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

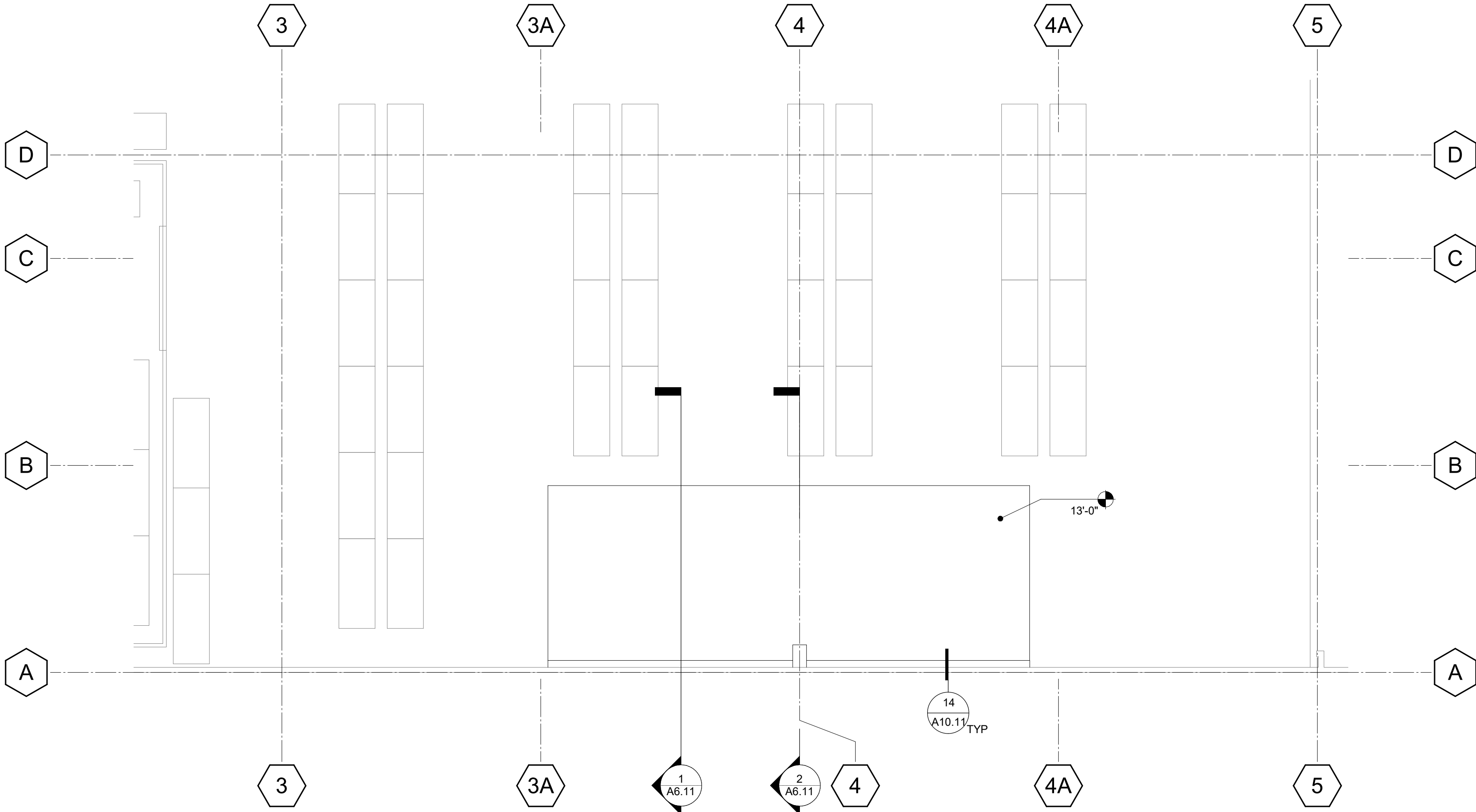
PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
ROOF PLAN

CONSTRUCTION DOCUMENTS

DATE: 2024.06.21
CLIENT PROJ NO:

SHEET:



PARTIAL T.O. STRUCTURE PLAN

1

1/8" = 1'-0"

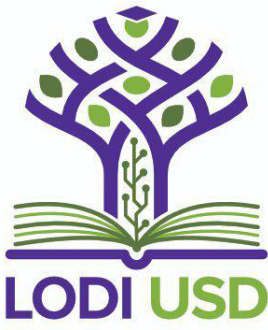
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A4.11

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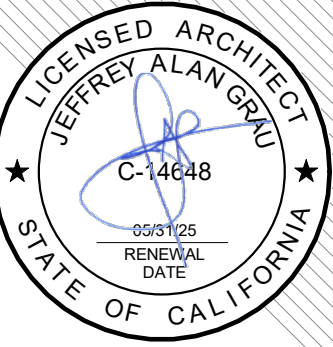
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ISSUE

Δ	DESCRIPTION	DATE
1	CITY BACKCHECK #1	12-10-2024

KEYNOTES

09.31 ACOUSTICAL CEILING

SHEET NOTES

SN.01 (E) COLUMN
SN.02 (E) STRUCTURE
SN.03 (E) PALLET RACK
SN.04 METAL COVER

FACILITY:
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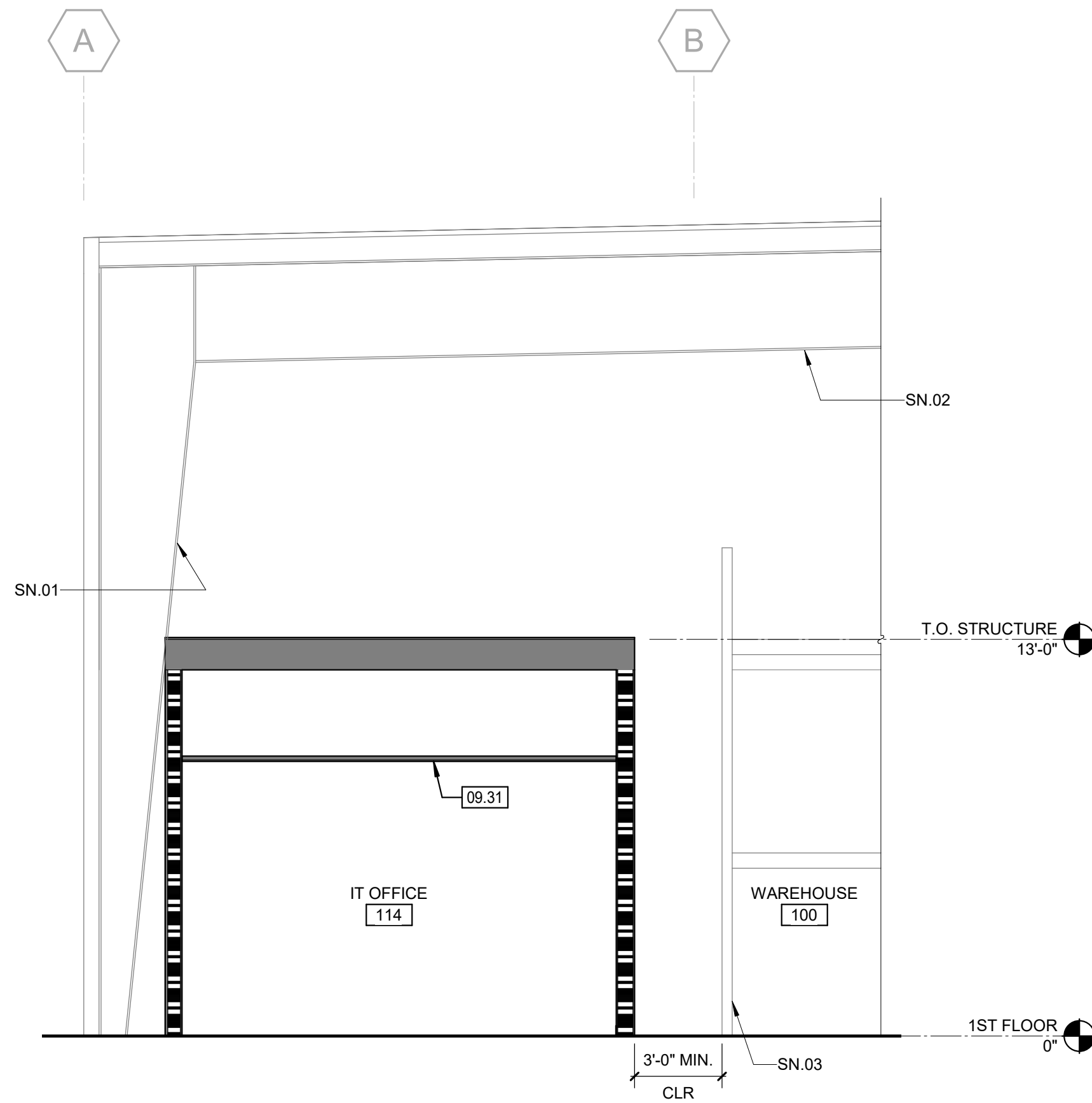
PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
PARTIAL BUILDING SECTIONS

CONSTRUCTION DOCUMENTS

DATE: 2024.06.21
CLIENT PROJ NO:

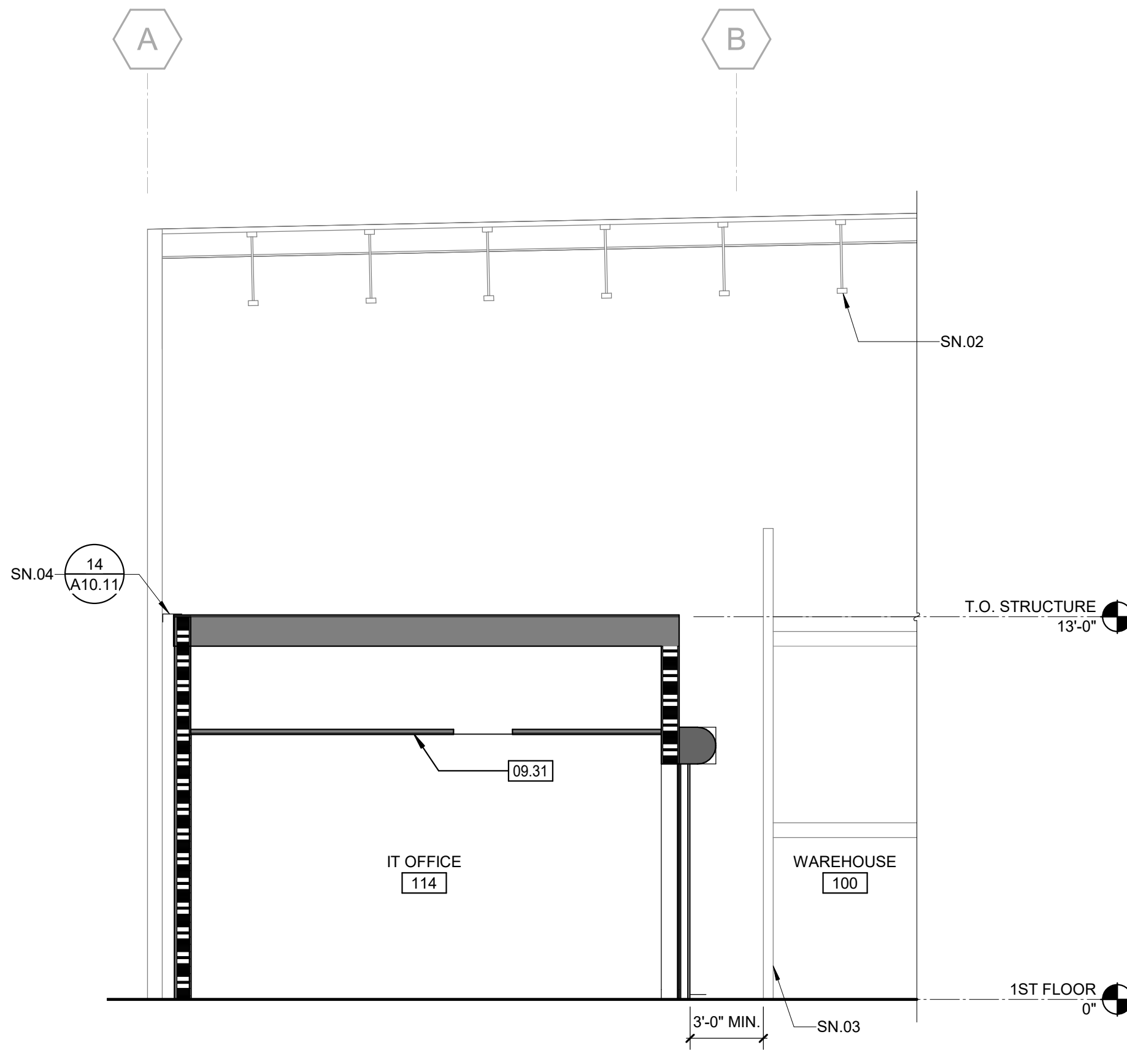
SHEET:



PARTIAL BUILDING SECTION

2

1/4" = 1'-0"



PARTIAL BUILDING SECTION

1

1/4" = 1'-0"

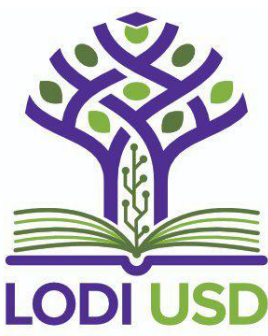
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A6.11

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SHEET'S ORIGINAL PAGE SIZE

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ISSUE

Δ	DESCRIPTION	DATE
1	CITY BACKCHECK #1	12-10-2024
2	CITY BACKCHECK #2	01-28-2025

GENERAL NOTES

- SEE A10.1 SERIES SHEETS FOR TYPICAL WALL AND WALL OPENING DETAILS.
- SEE A10.7 SERIES SHEETS FOR TYPICAL ATTACHMENT AND MOUNTING HEIGHT DETAILS.

KEYNOTES

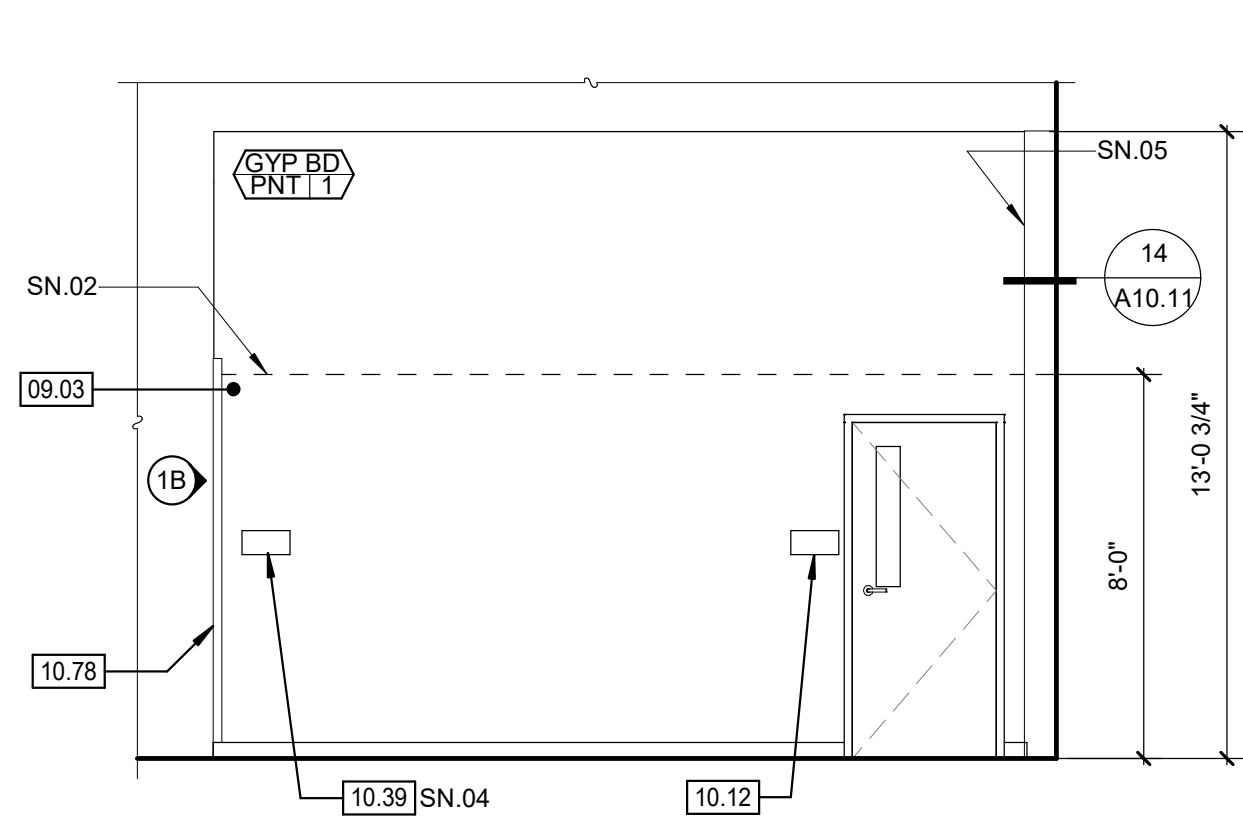
- 08.21 OVERHEAD COILING DOORS (MOTOR OPERATED)
09.03 IMPACT RESISTANT GYPSUM BOARD
09.65 RESILIENT BASE
10.12 ROOM IDENTIFICATION SIGN
10.39 CEILING LIVE LOAD CAPACITY SIGN
10.78 CORNER GUARD
10.83 SURFACE MOUNTED FIRE EXTINGUISHER
12.24 PLASTIC LAMINATE CLAD COUNTERTOP
12.25 CASEWORK FILLER PANEL
26.03 ELECTRICAL PANEL | ELEC

NOTES

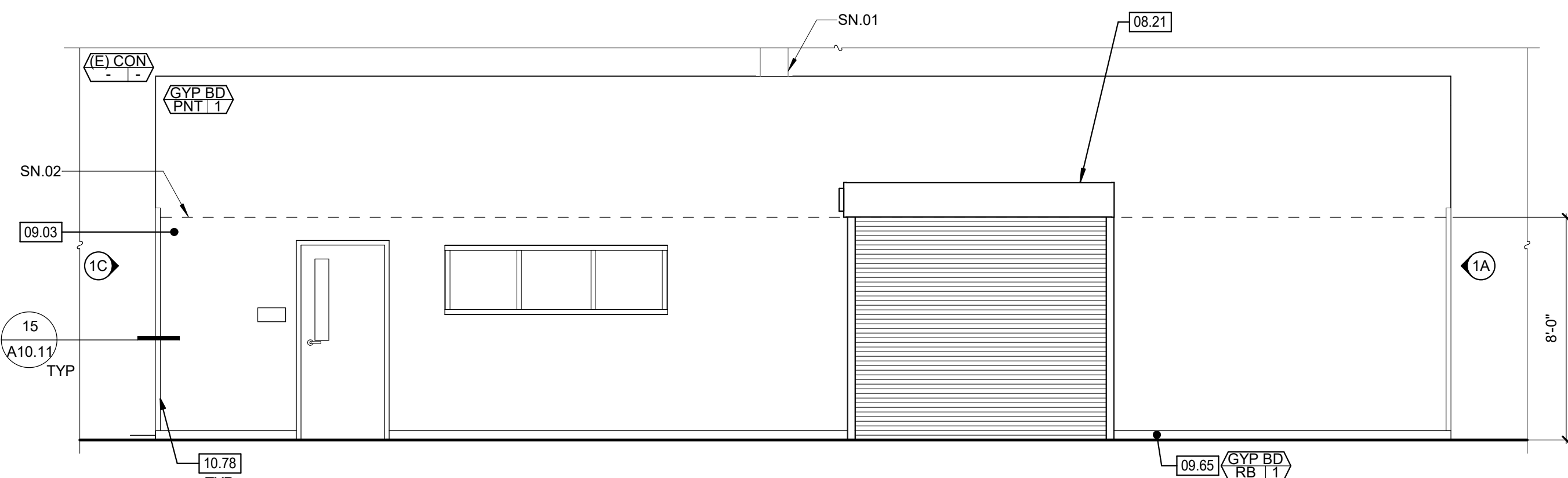
CASEWORK ABBREVIATIONS:
WI WOODWORK INSTITUTE

SHEET NOTES

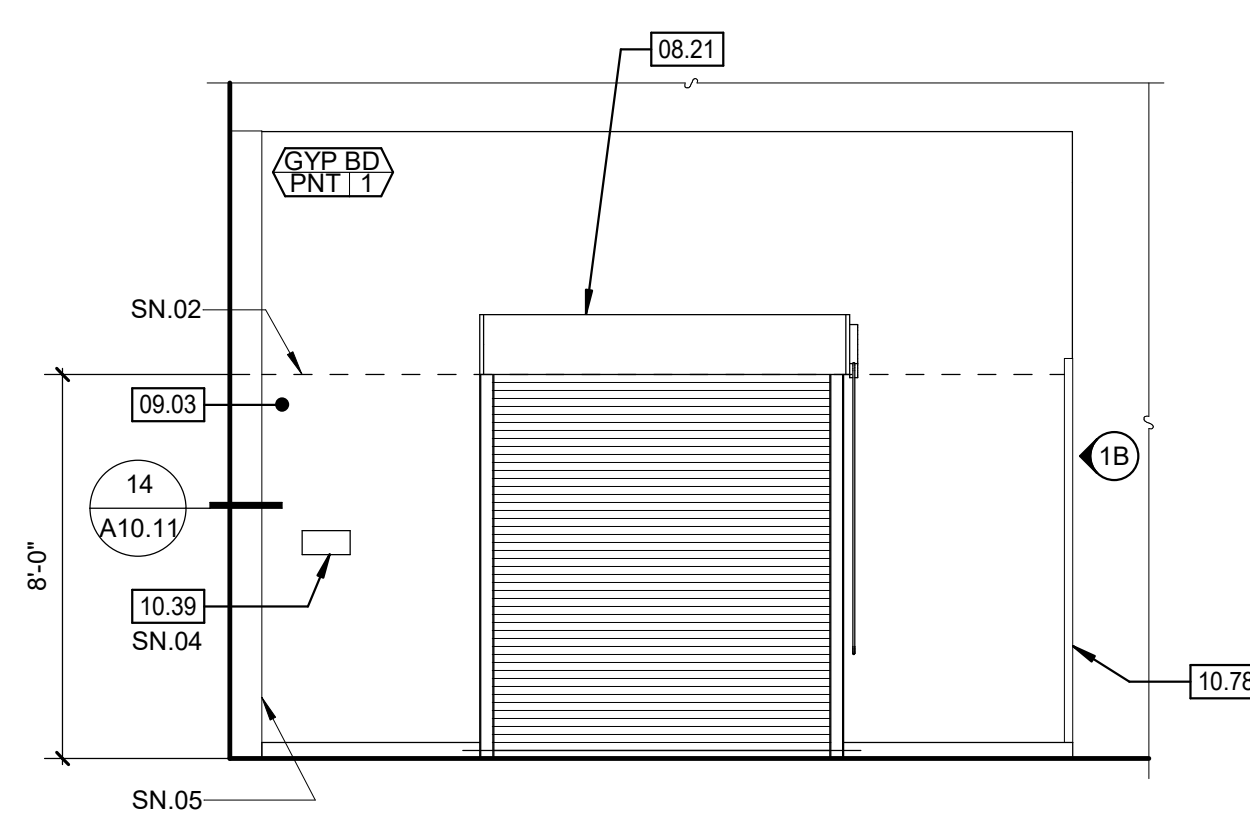
- SN.01 (E) COLUMN AT WALL BEYOND.
SN.02 IMPACT RESISTANT GYPSUM BOARD UP TO 8'-0" A.F.F.
SN.03 (E) DOF. REINSTALLED
SN.04 20 PSF MAX.
SN.05 METAL COVER
SN.06 TYPE 2A 10-8-03



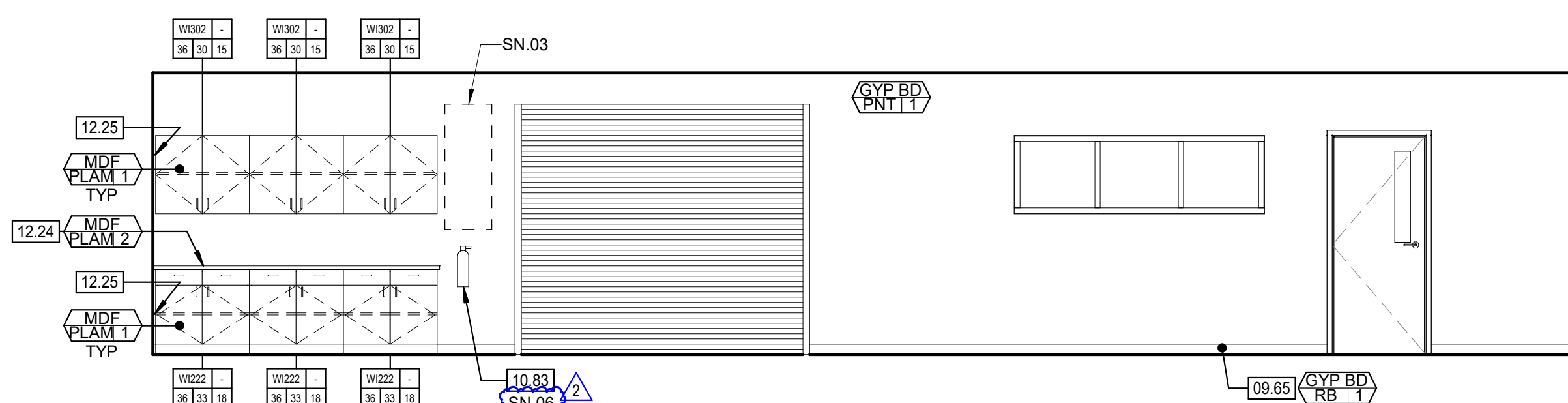
101 WAREHOUSE **1A**
1/4" = 1'-0"



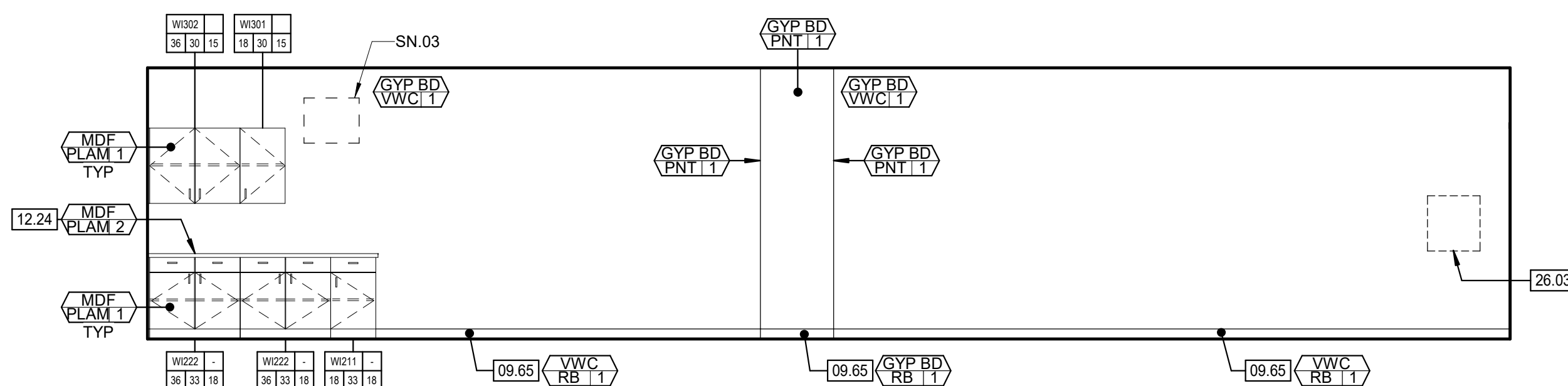
101 WAREHOUSE **1B**
1/4" = 1'-0"



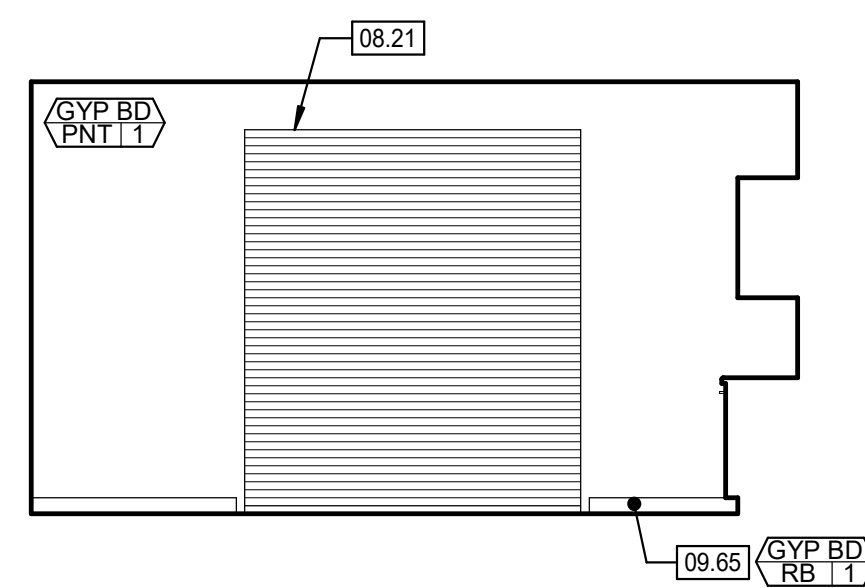
101 WAREHOUSE **1C**
1/4" = 1'-0"



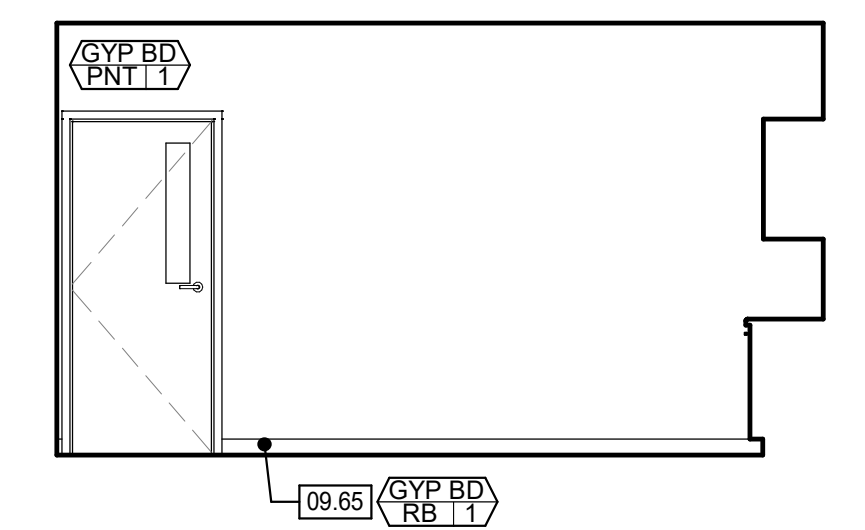
114 IT OFFICE **2A**
1/4" = 1'-0"



114 IT OFFICE **2C**
1/4" = 1'-0"



114 IT OFFICE **2B**
1/4" = 1'-0"



114 IT OFFICE **2D**
1/4" = 1'-0"

FACILITY:
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851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
INTERIOR ELEVATIONS

CONSTRUCTION DOCUMENTS

DATE: 2024.06.21
CLIENT PROJ NO:

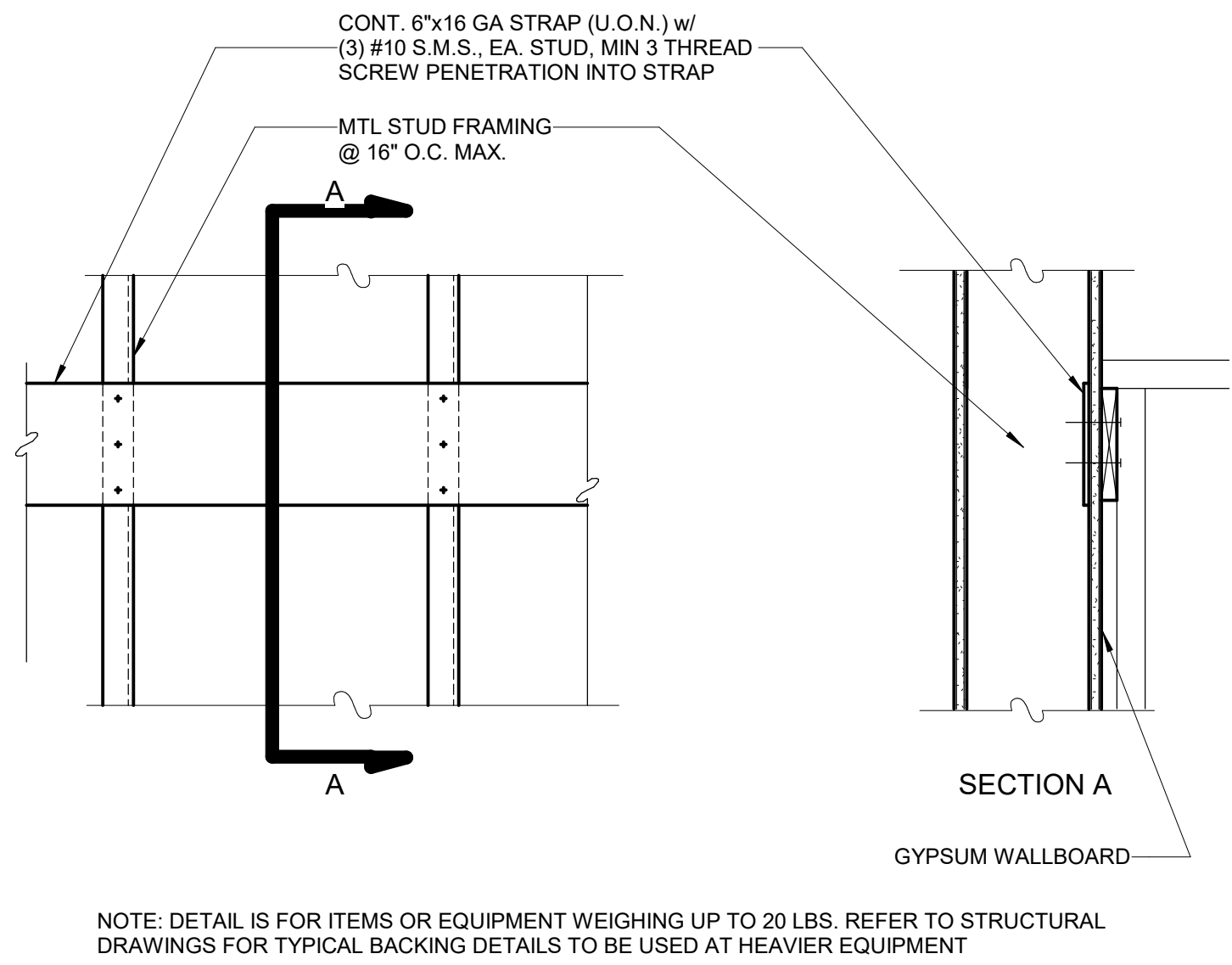
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A8.11

PLEASE RECYCLE

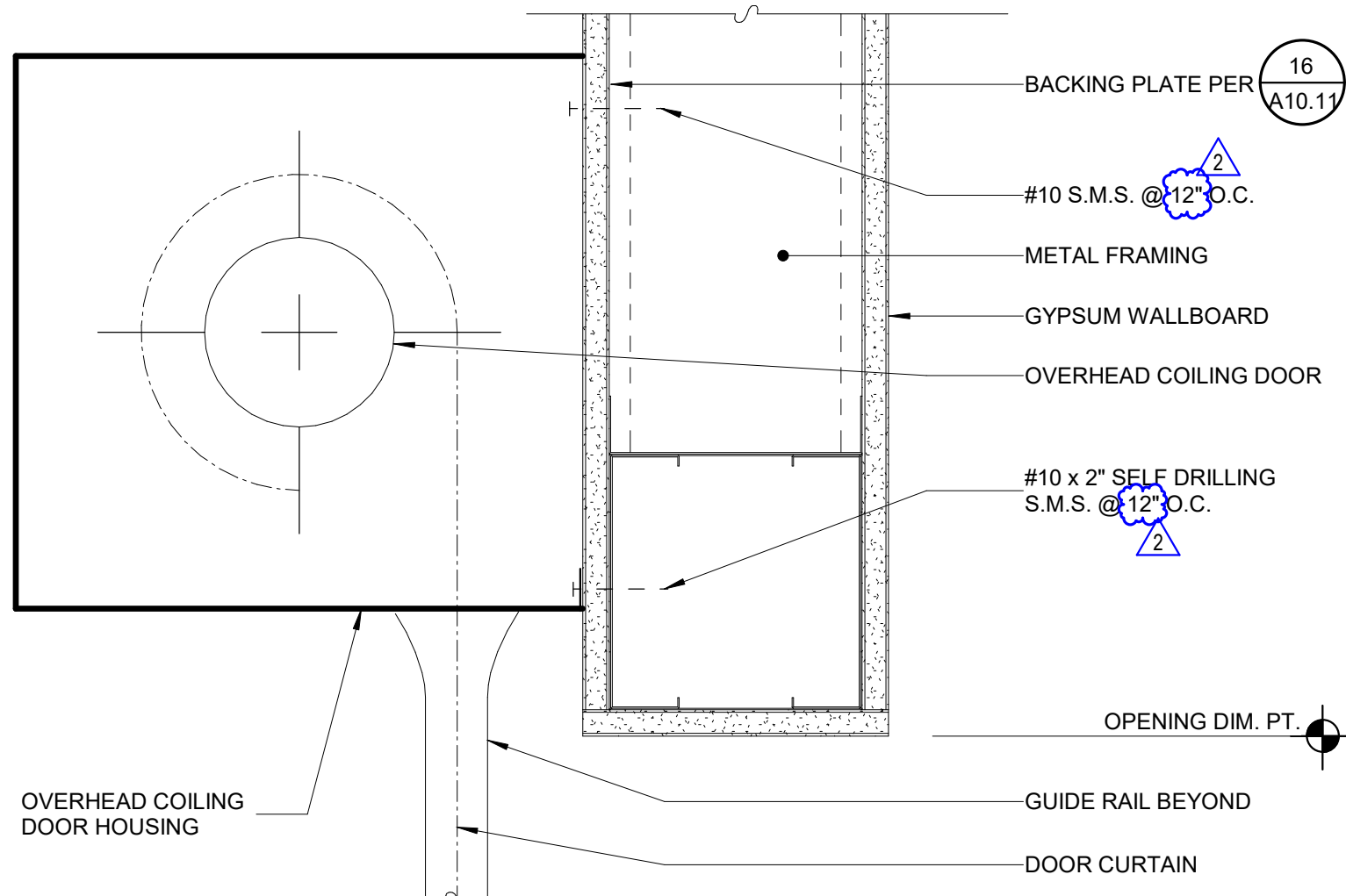
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1/29/2025 9:28:10 AM

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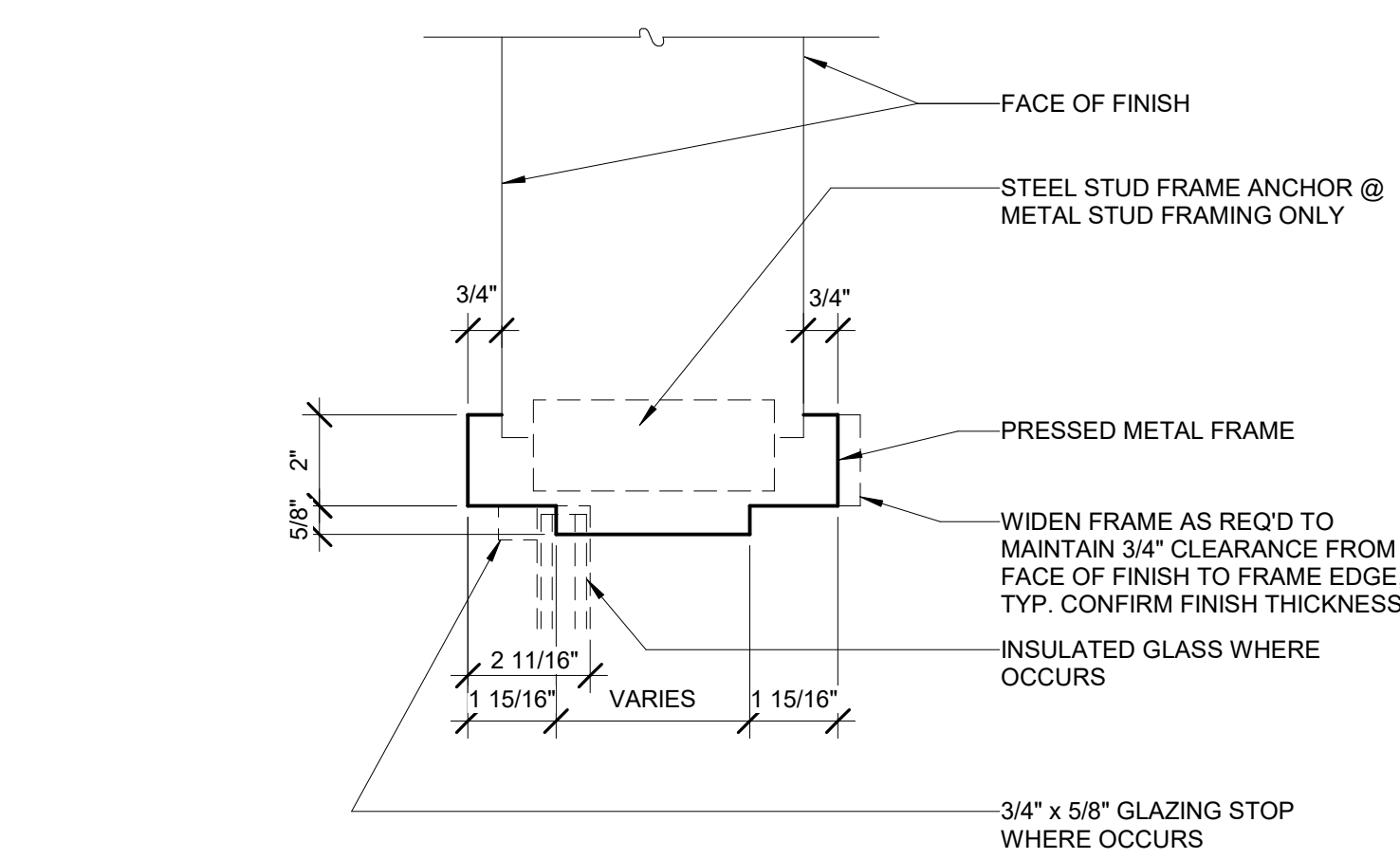


NOTE: DETAIL IS FOR ITEMS OR EQUIPMENT WEIGHING UP TO 20 LBS. REFER TO STRUCTURAL DRAWINGS FOR TYPICAL BACKING DETAILS TO BE USED AT HEAVIER EQUIPMENT

BACKING PLATE 16
1 1/2" = 1'-0"

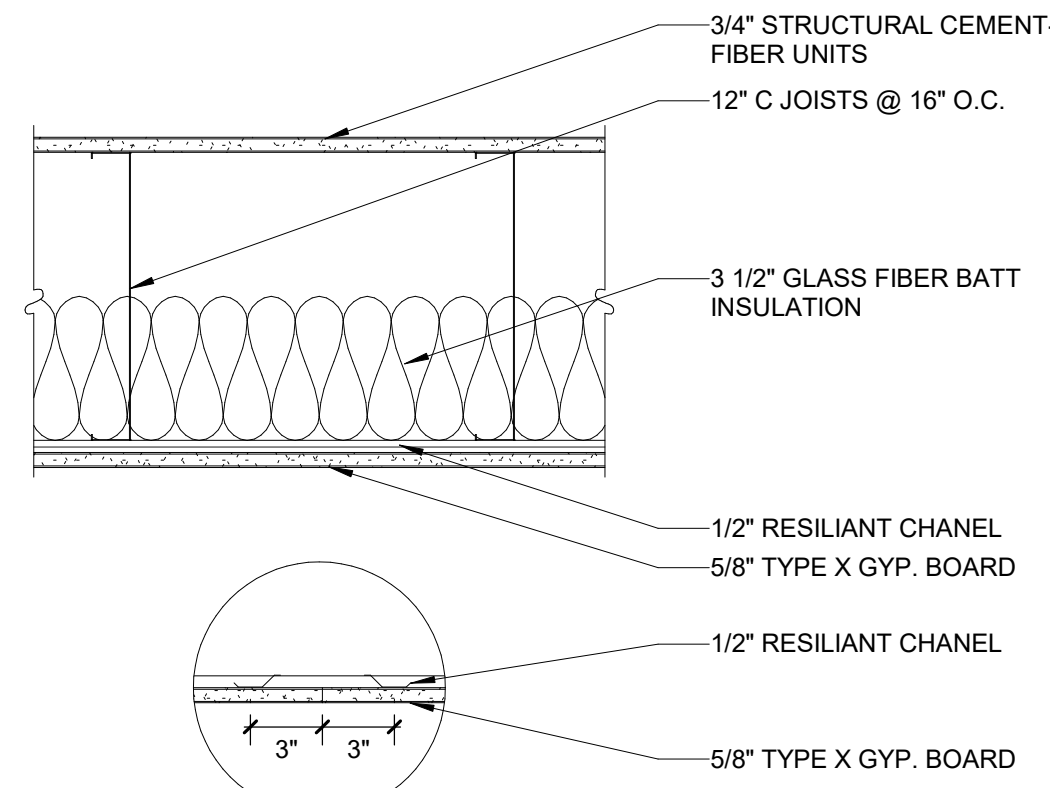


OVERHEAD COILING DOOR HEAD 12
3" = 1'-0"



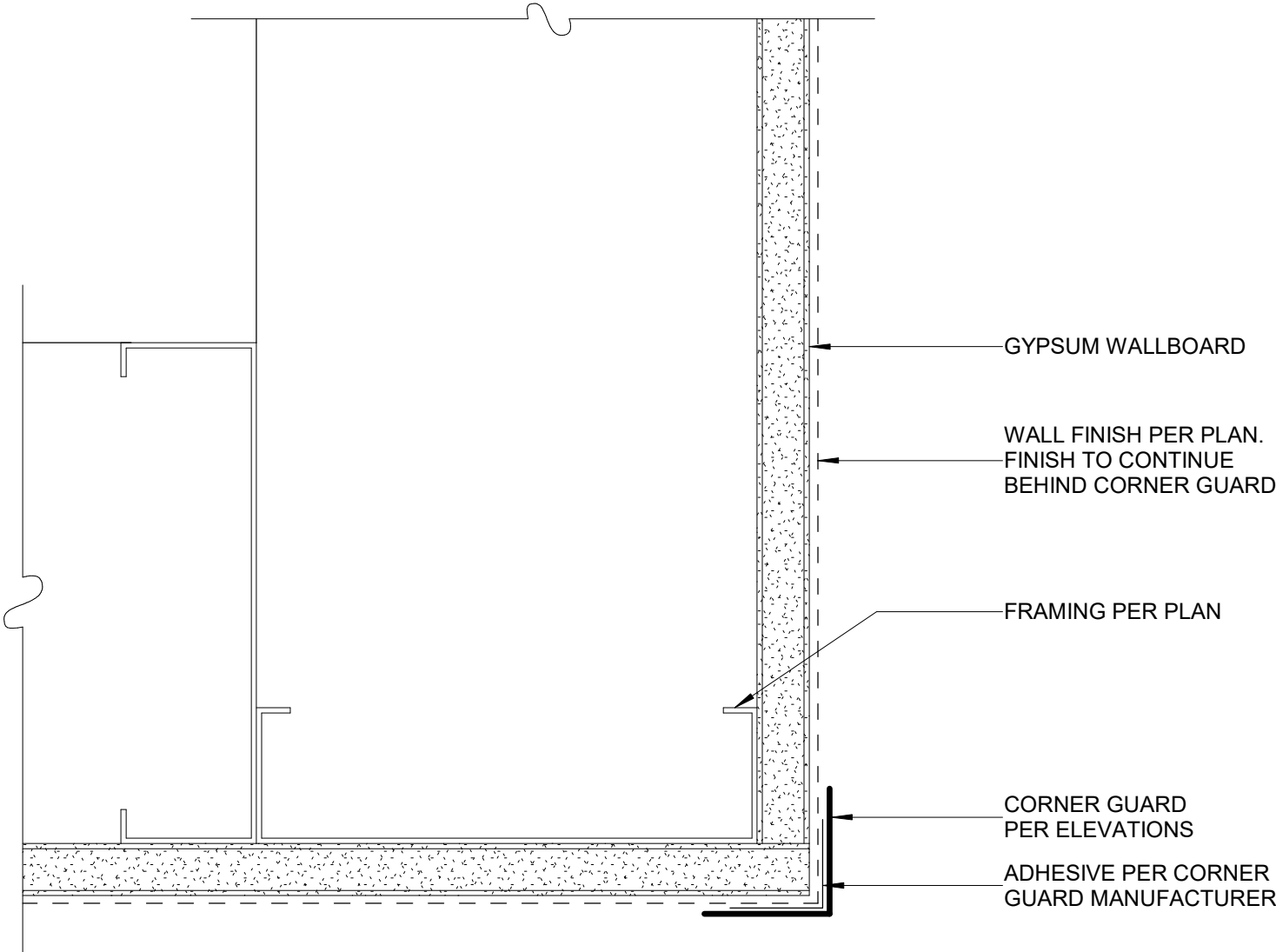
NOTES:
1. AT RATED OPENINGS, GYP. BD. SHALL PENETRATE THE THROAT OF THE FRAME 1/2" MIN., WHILE OTHER WALL FINISH MATERIALS ARE ONLY ALLOWED TO ABUT THE FRAME EDGE.

TYP. INT. DOOR FRAME - HEAD/JAMB 8
3" = 1'-0"

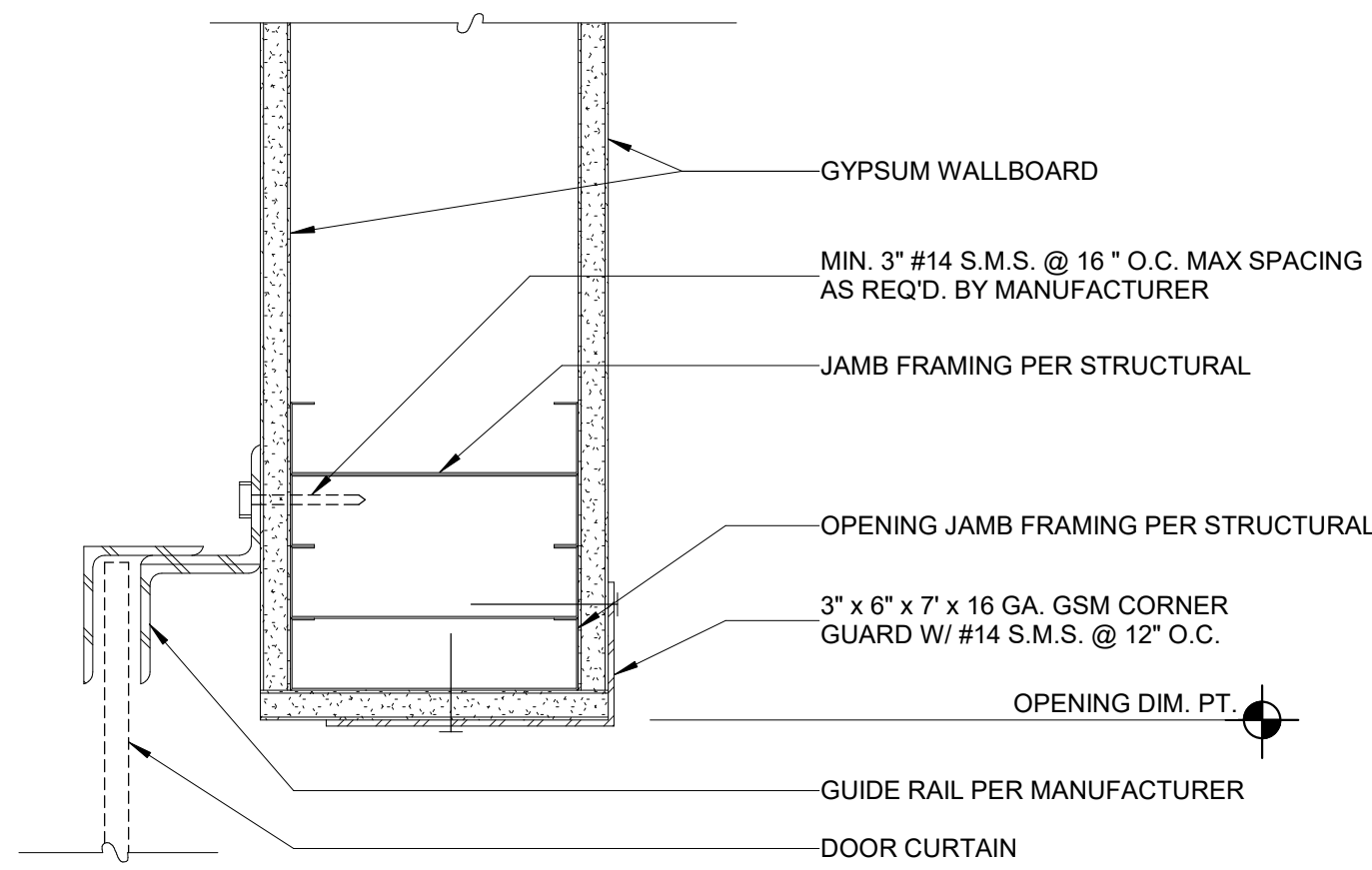


1-HR RATED FLOOR TO COMPLY WITH UL #H505

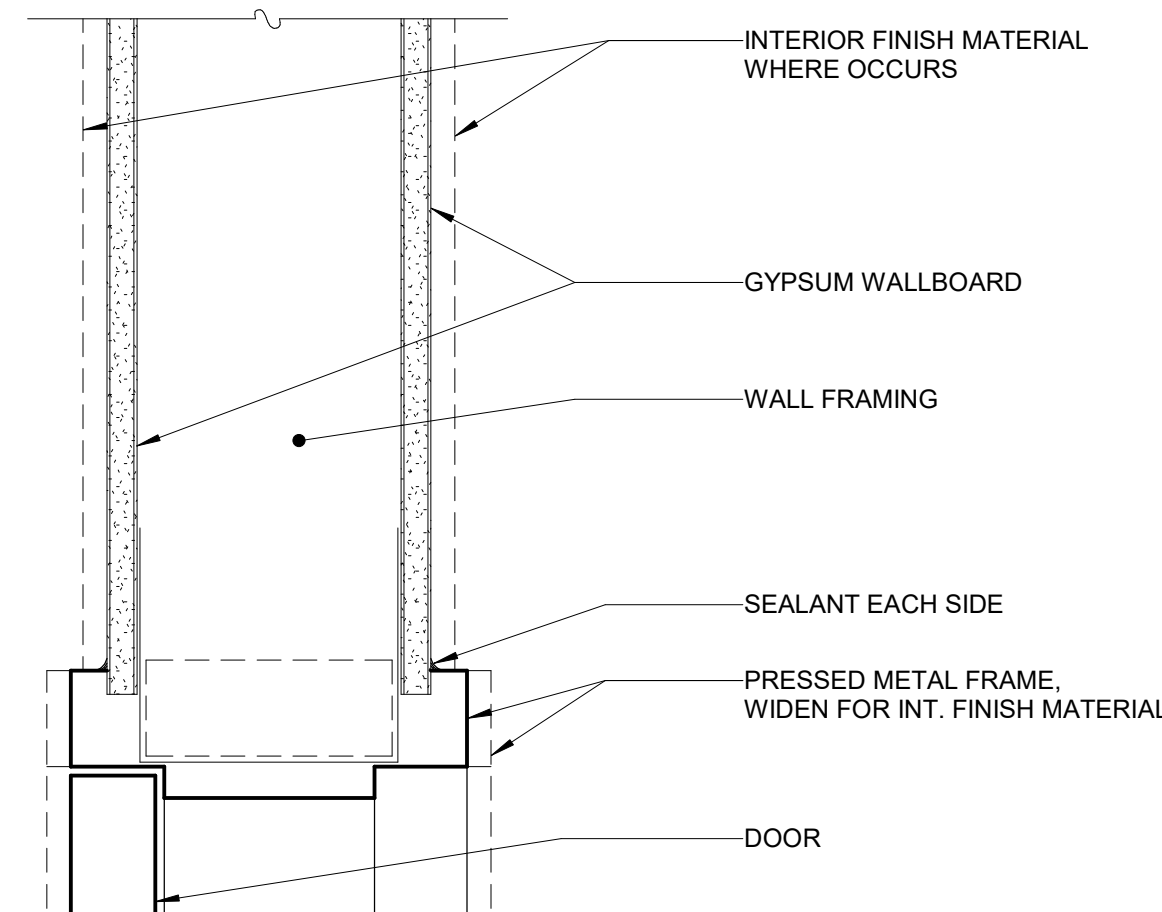
1-HR RATED FLOOR ASSEMBLY 4
1 1/2" = 1'-0"



CORNER GUARD 15
6" = 1'-0"

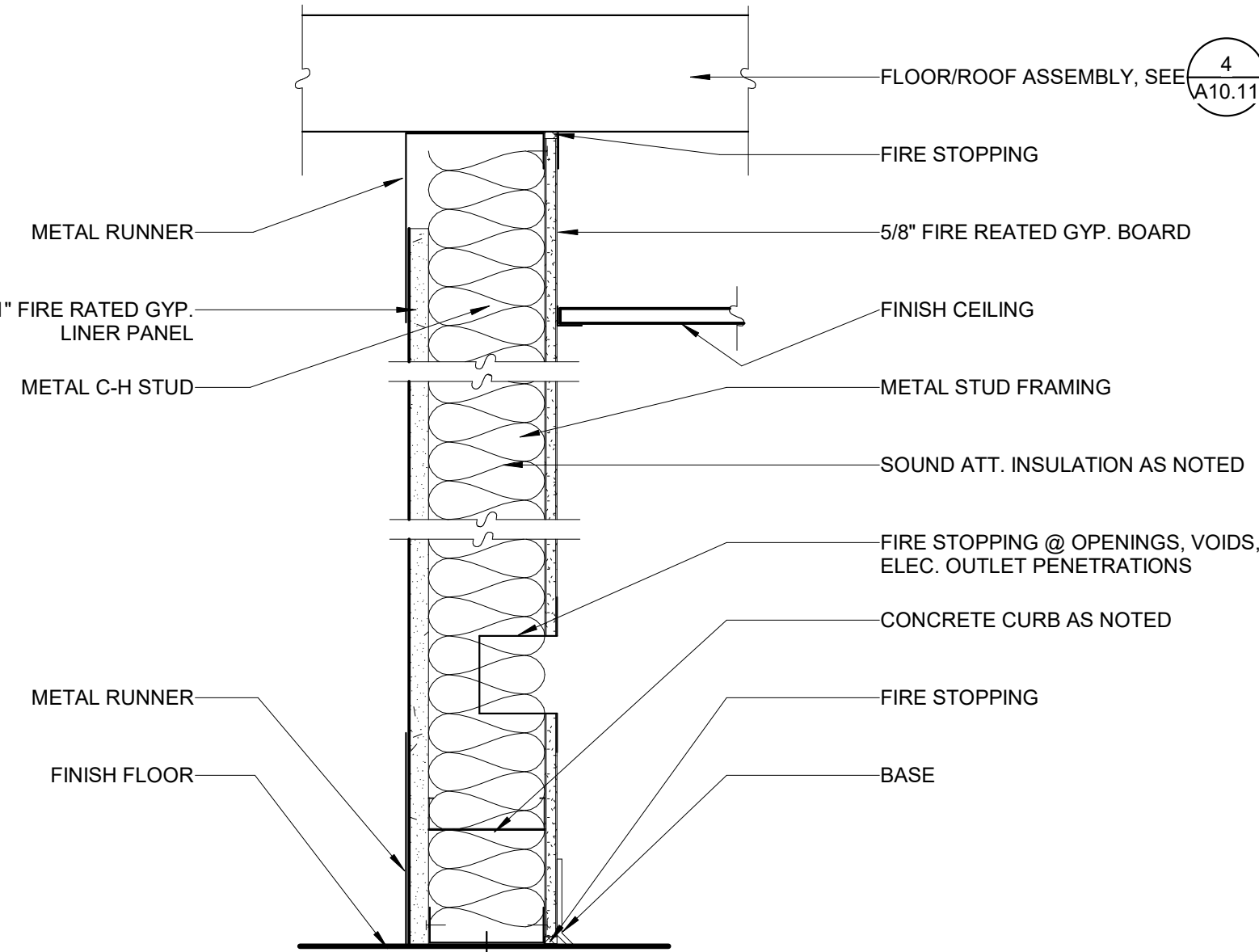


OVERHEAD COILING DOOR JAMB 11
3" = 1'-0"

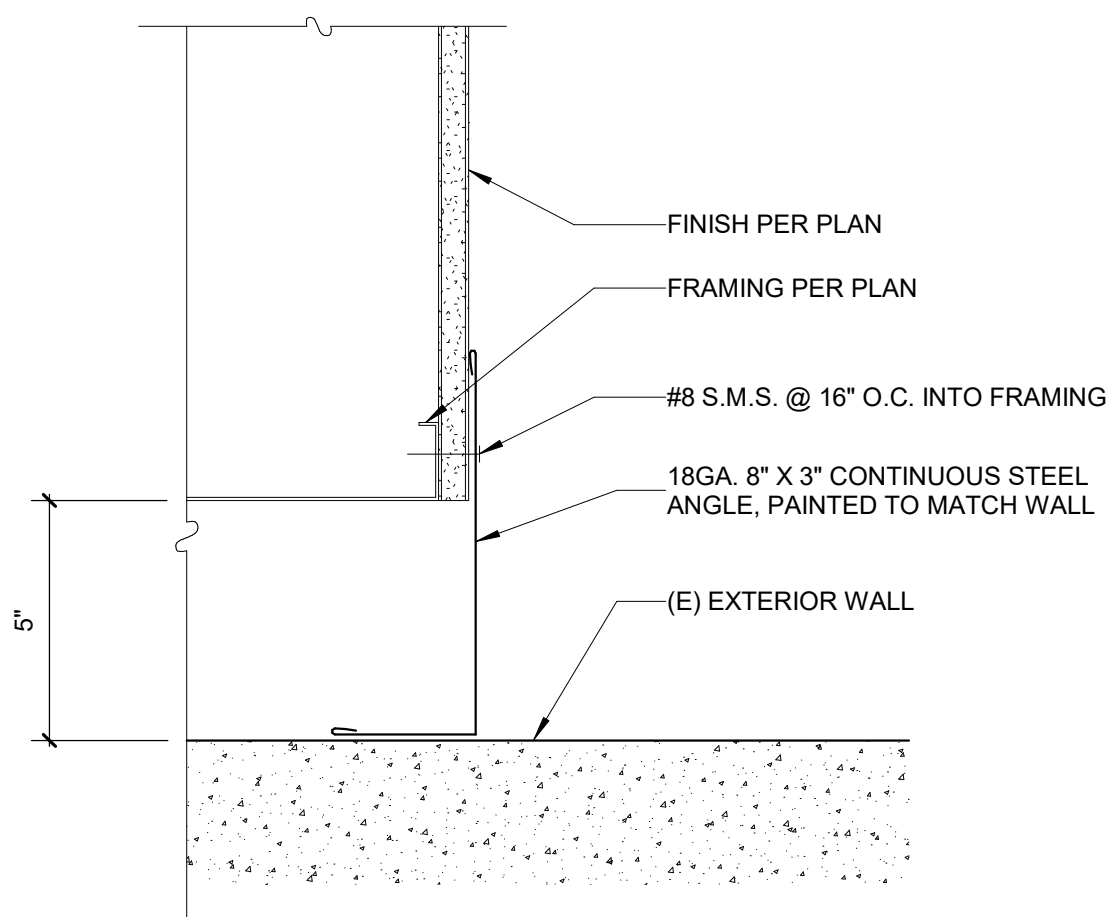


NOTES:
1. FOR FRAME DIMENSIONS AND DETAIL SEE 8 (A10.11)

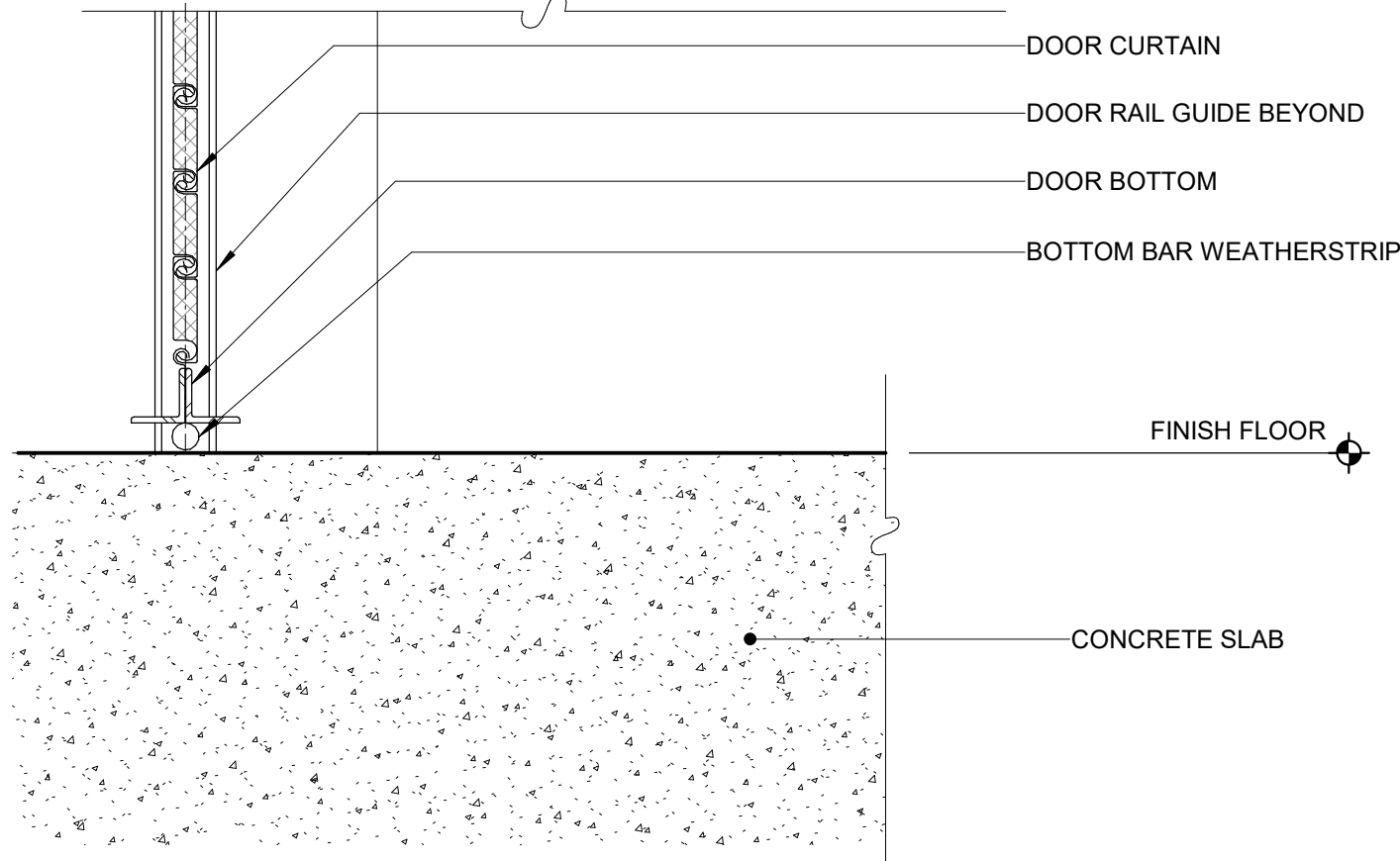
INTERIOR DOOR HEAD/JAMB 7
3" = 1'-0"



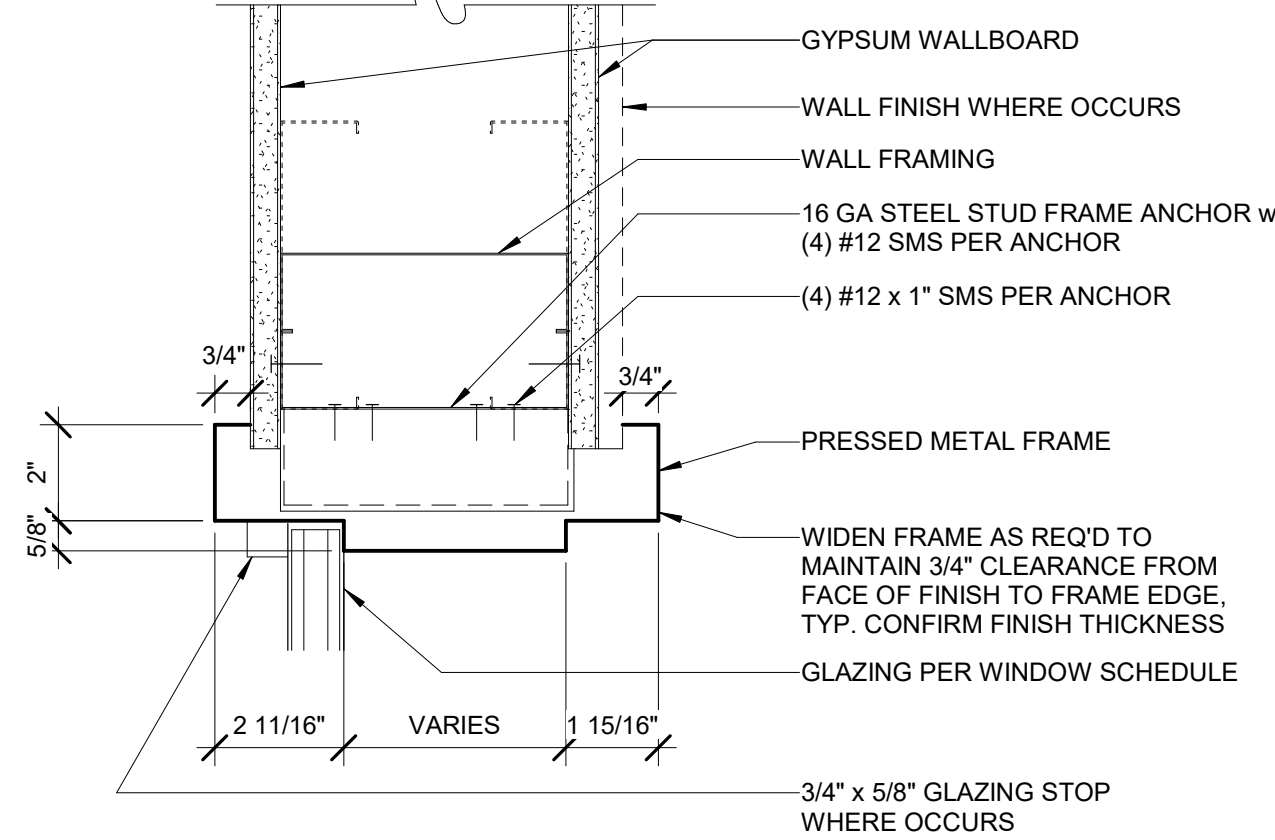
1-HR RATED METAL STUD SHAFT WALL 3
1 1/2" = 1'-0"



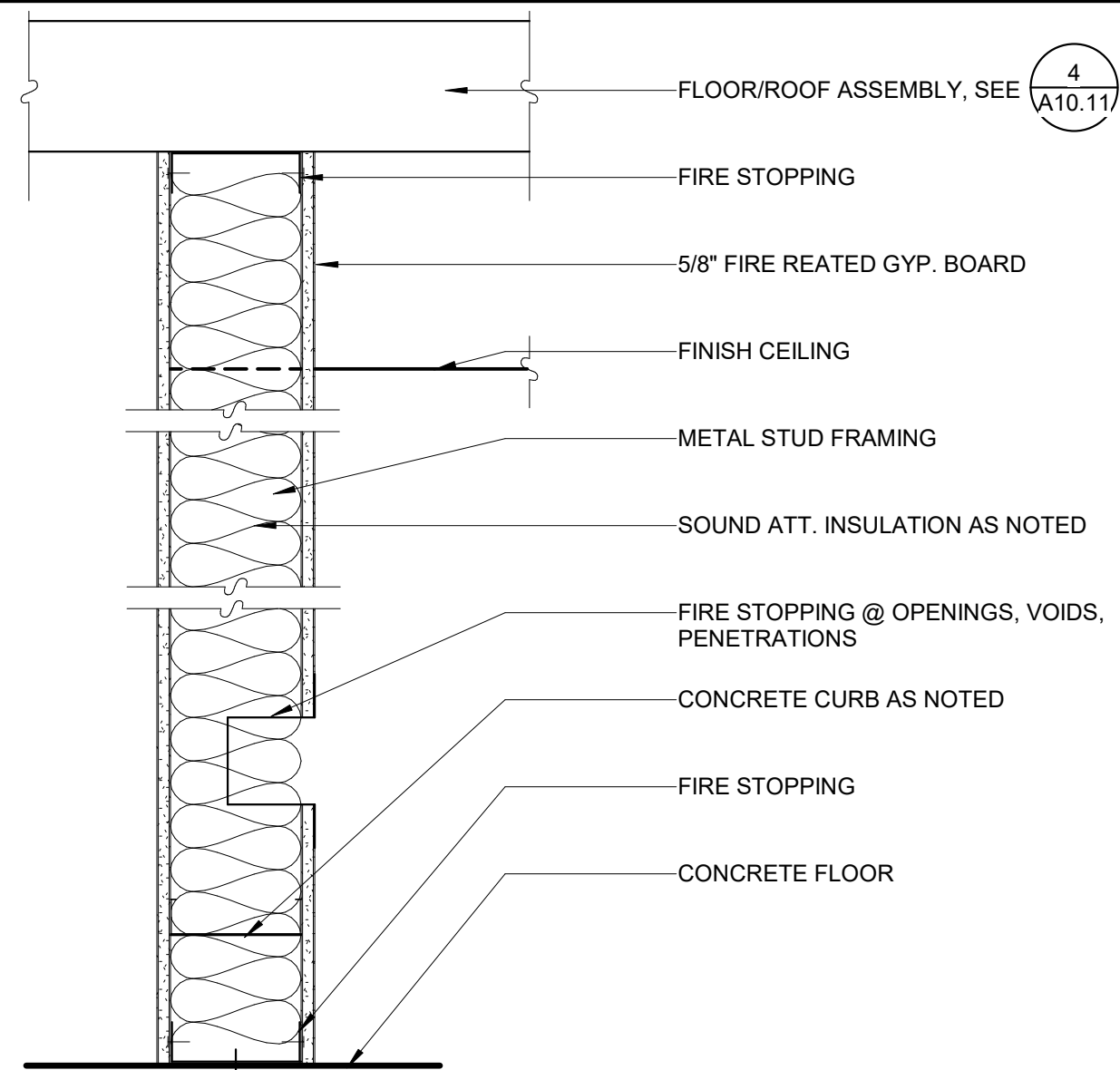
METAL GAP COVER 14
3" = 1'-0"



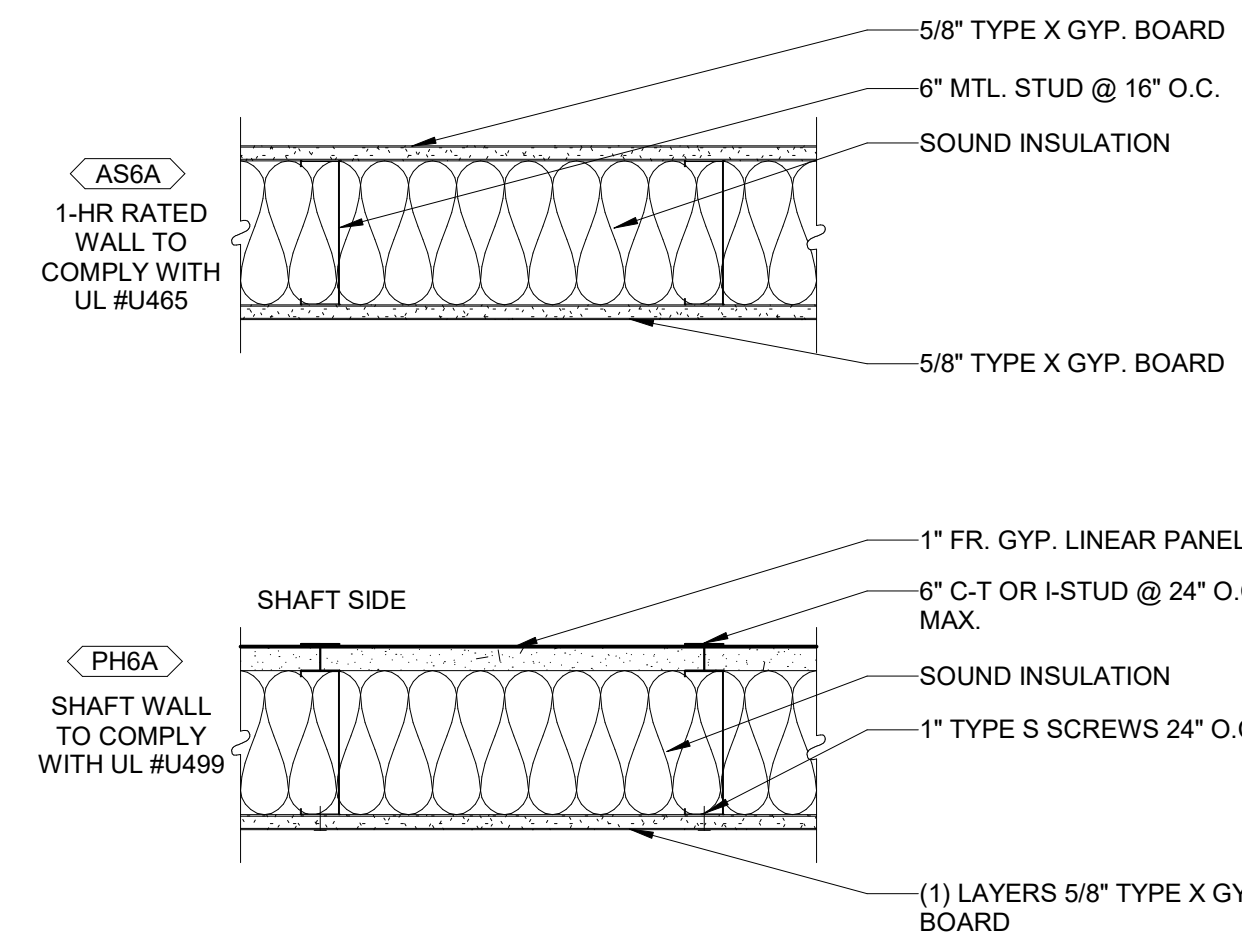
OVERHEAD COILING DOOR THRESHOLD 10
3" = 1'-0"



INTERIOR WINDOW HEAD/ JAMB/ SILL 6
3" = 1'-0"

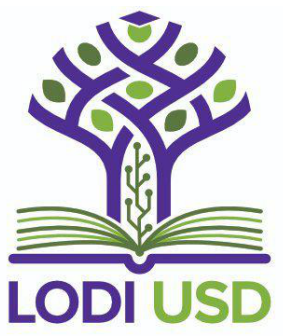


1-HR RATED METAL STUD WALL 2
1 1/2" = 1'-0"



WALL TYPES 1
1 1/2" = 1'-0"

AGENCY APPROVAL:



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ISSUE

Δ	DESCRIPTION	DATE
1	CITY BACKCHECK #1	12-10-2024
2	CITY BACKCHECK #2	01-28-2025

FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
TYPICAL WALL AND WALL OPENING DETAILS

CONSTRUCTION DOCUMENTS

DATE: 2024.06.21
CLIENT PROJ NO.

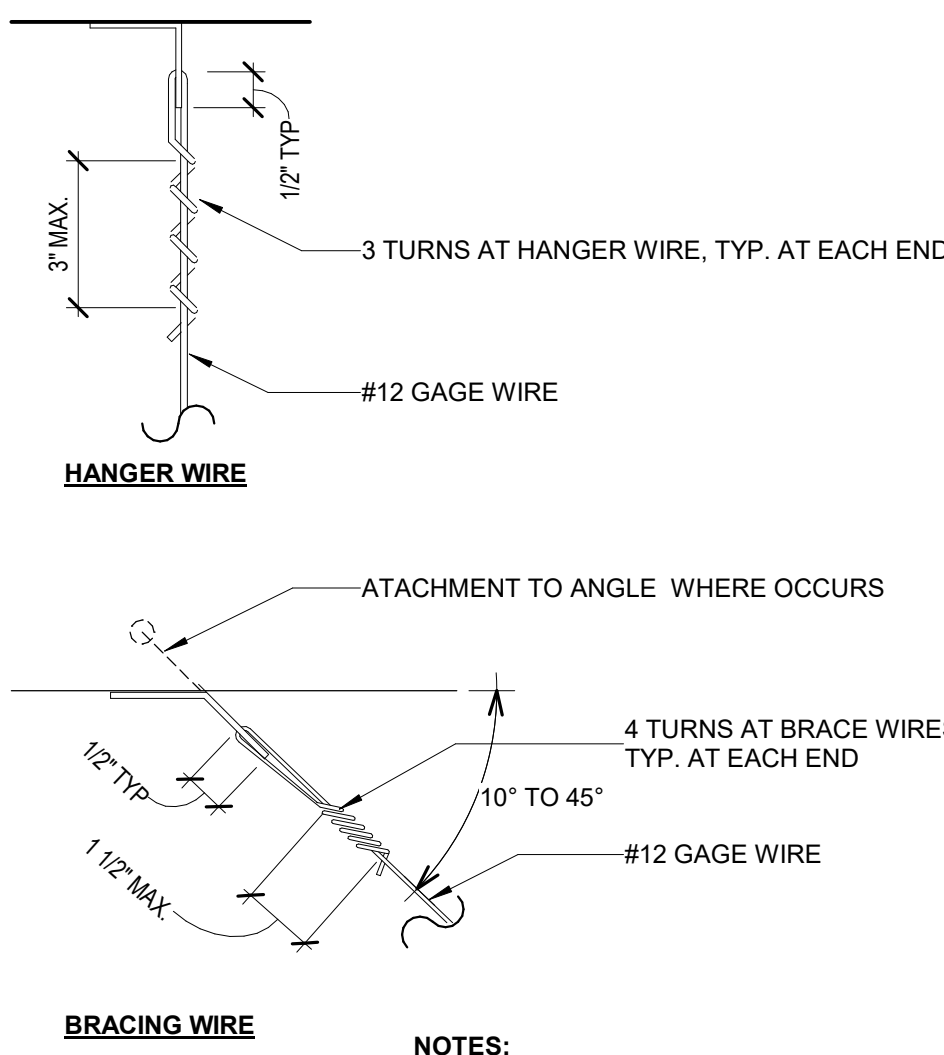
SHEET:

A10.11

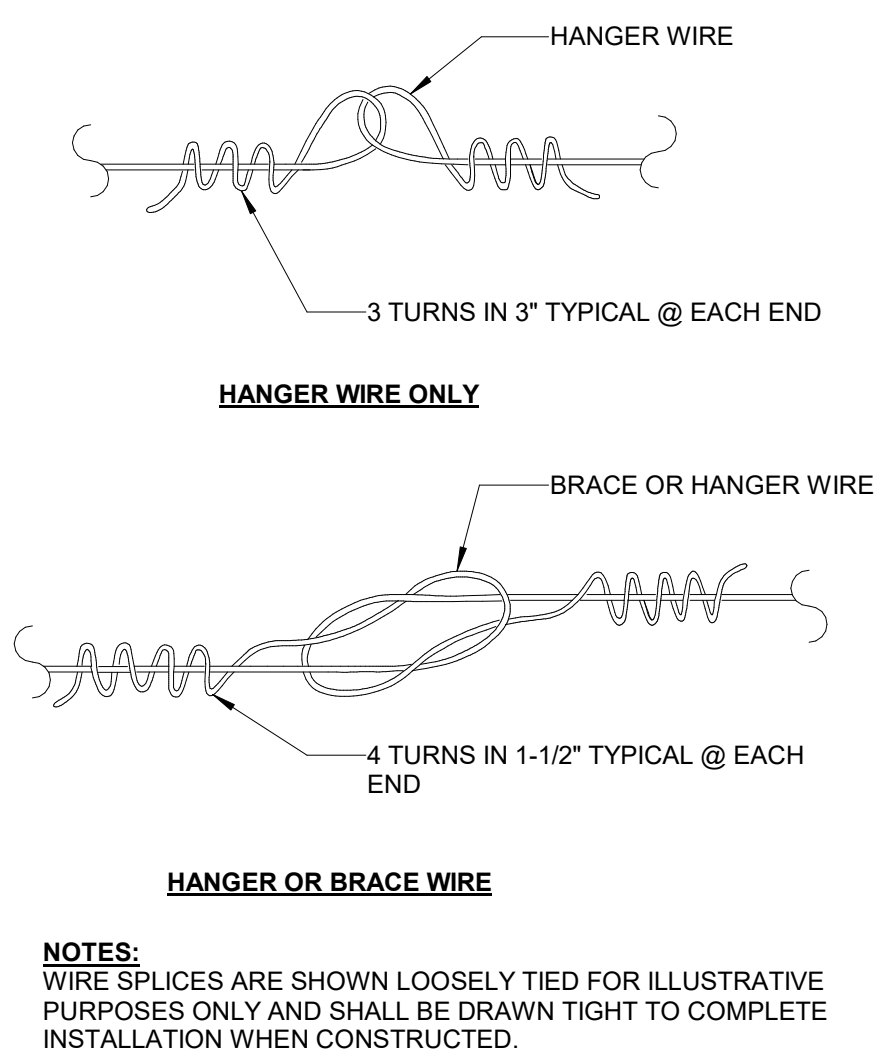
PLEASE RECYCLE

Autodesk Docs\1343100600-Lodi USD Warehouse IT Office Addition\343100600-A-USD-WHS-IT-OFFICE-ADD.rvt 1/29/2025 9:28:11 AM

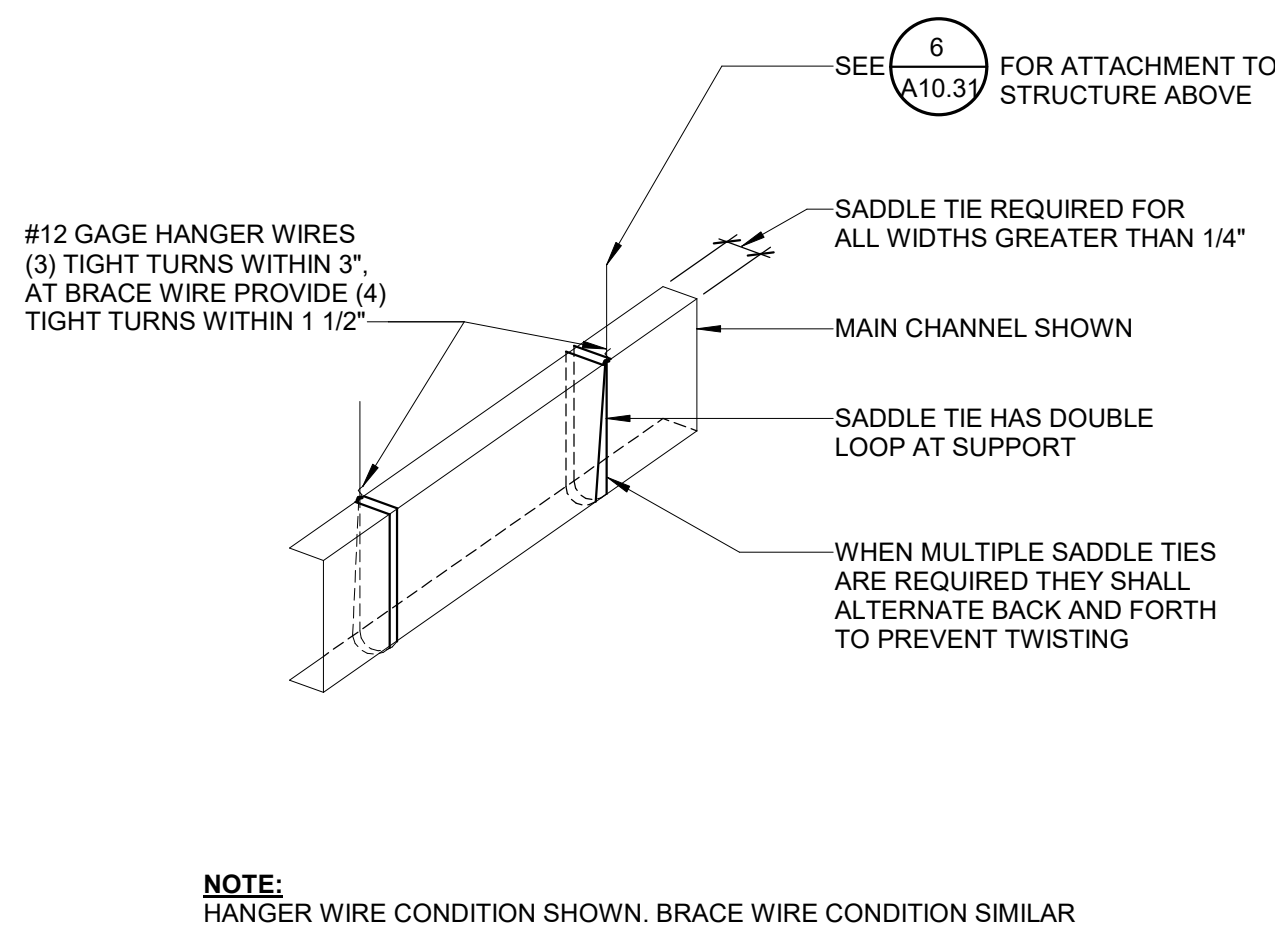
THE LINE SHOWN ABOVE THE BOXED DIMENSION INDICATES SHEET OR DRAWING PAGE SIZE



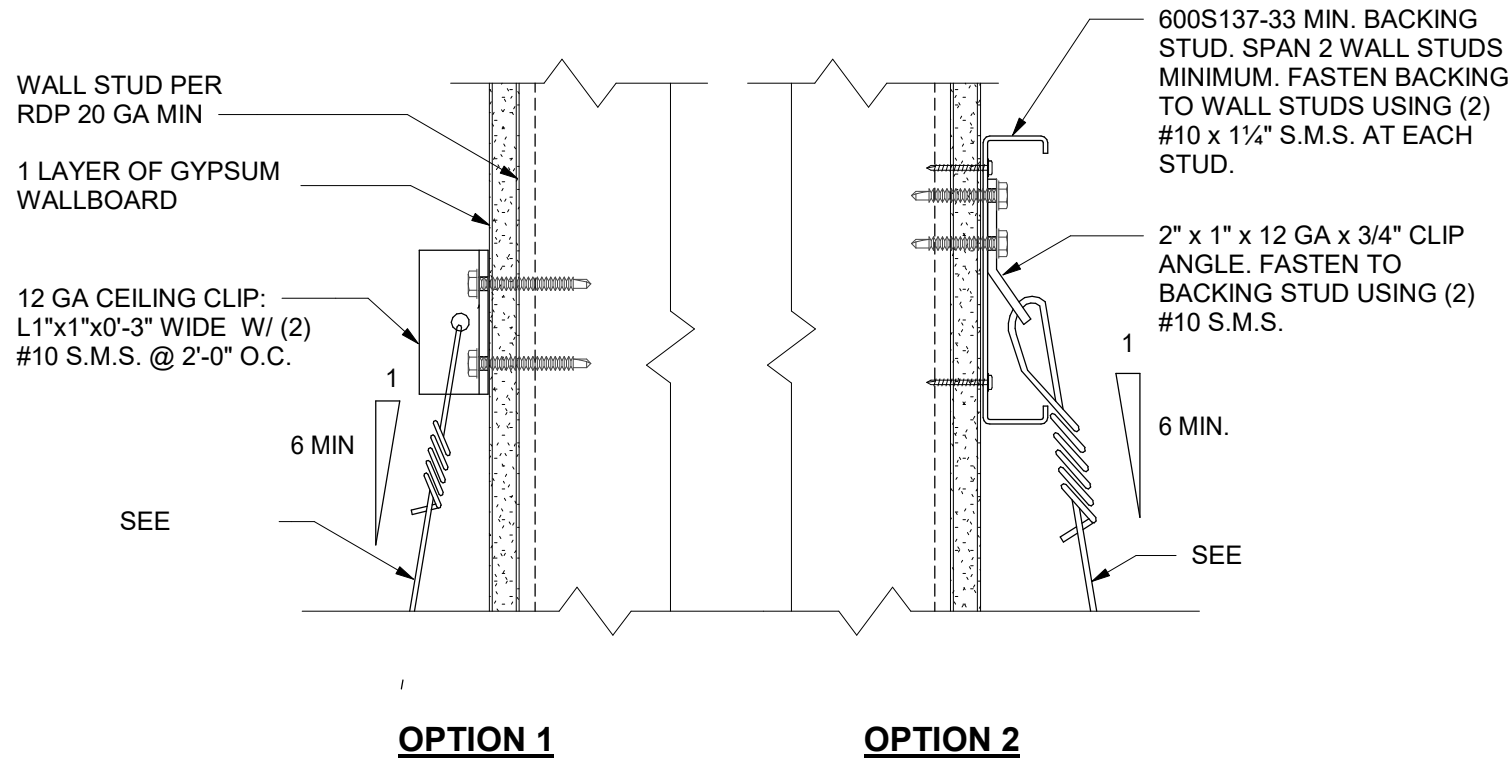
HANGER / BRACE WIRE 16
3" = 1'-0"



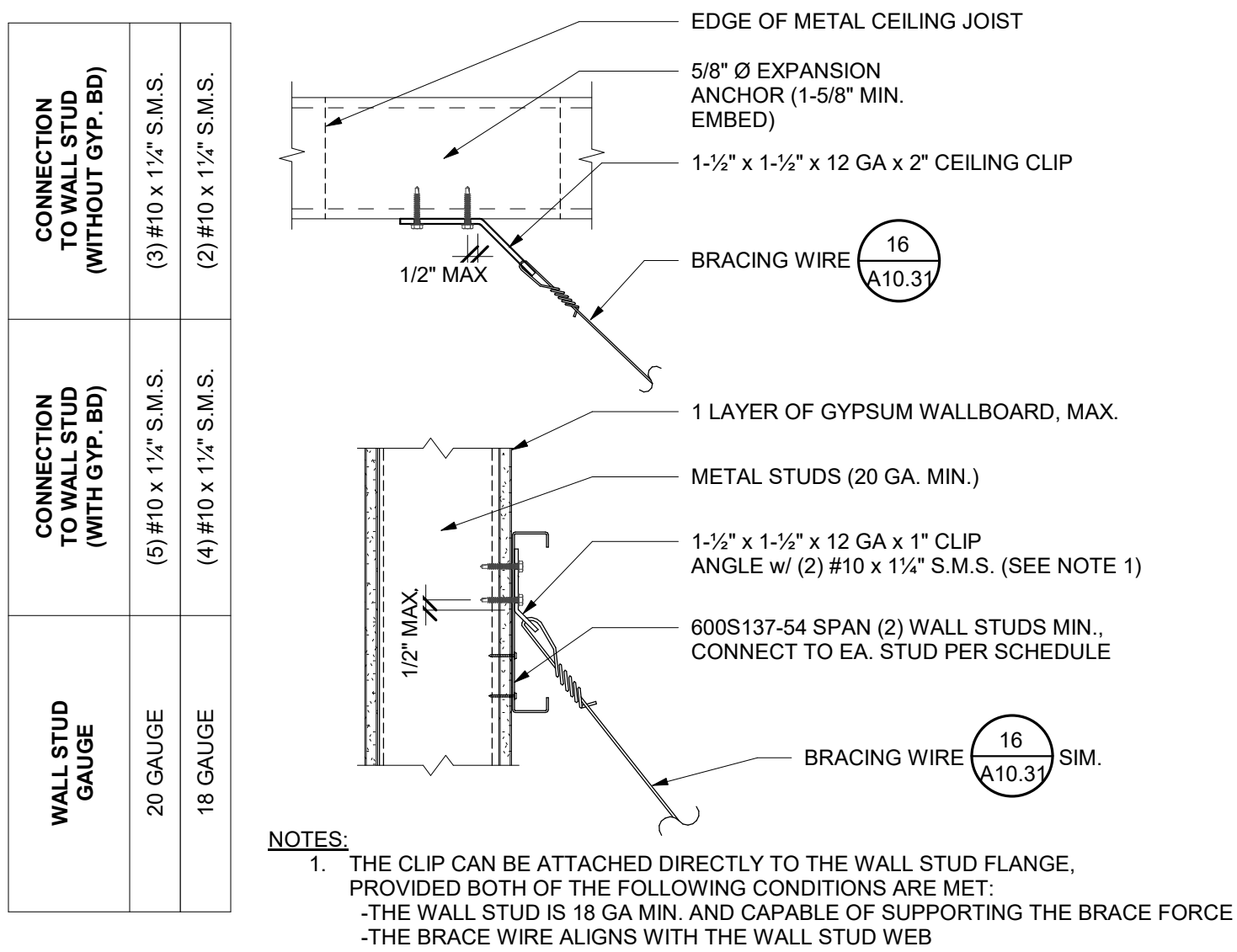
HANGER / BRACE WIRE SPLICE 15
3" = 1'-0"



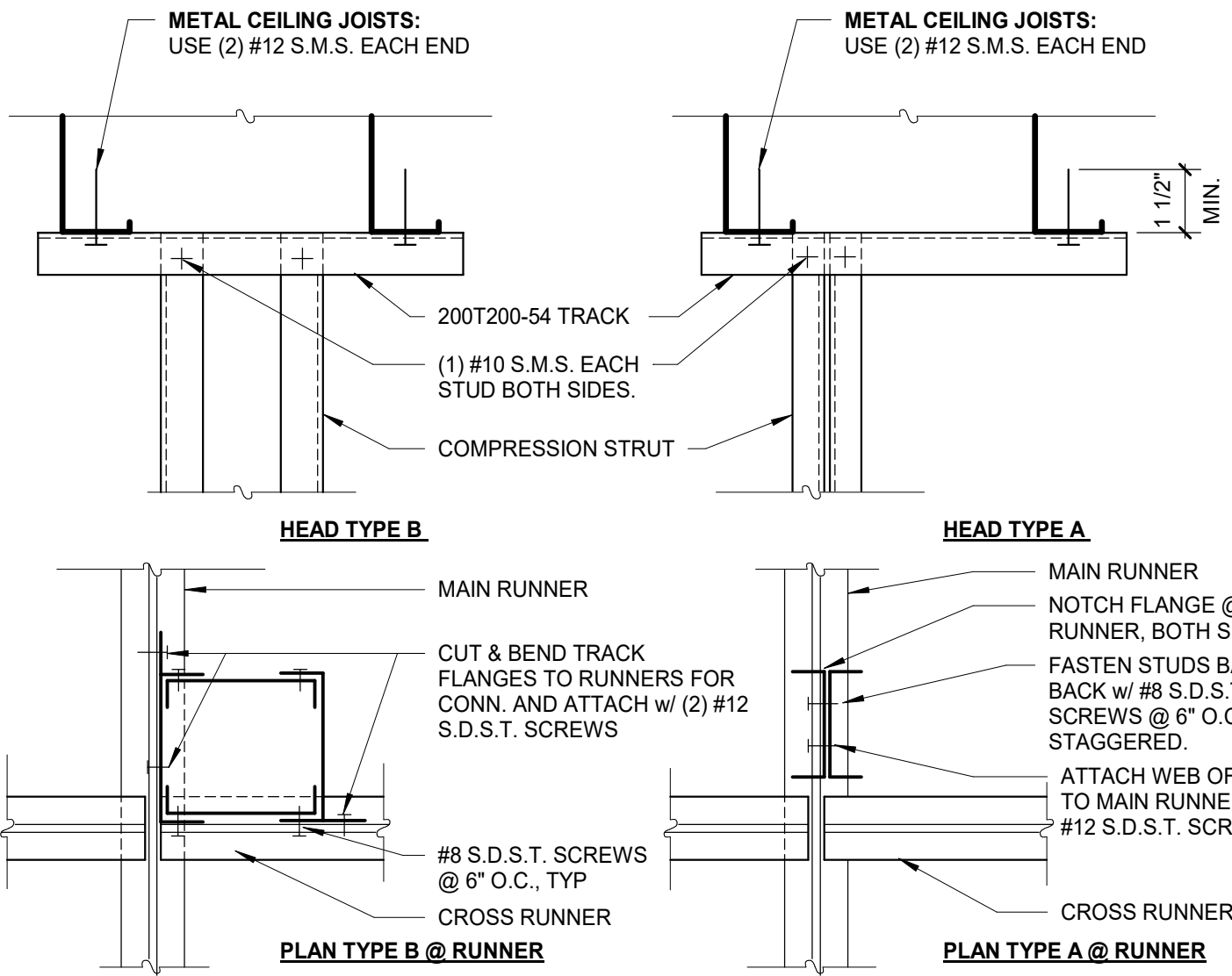
TYPICAL SADDLE TIE 14
1 1/2" = 1'-0"



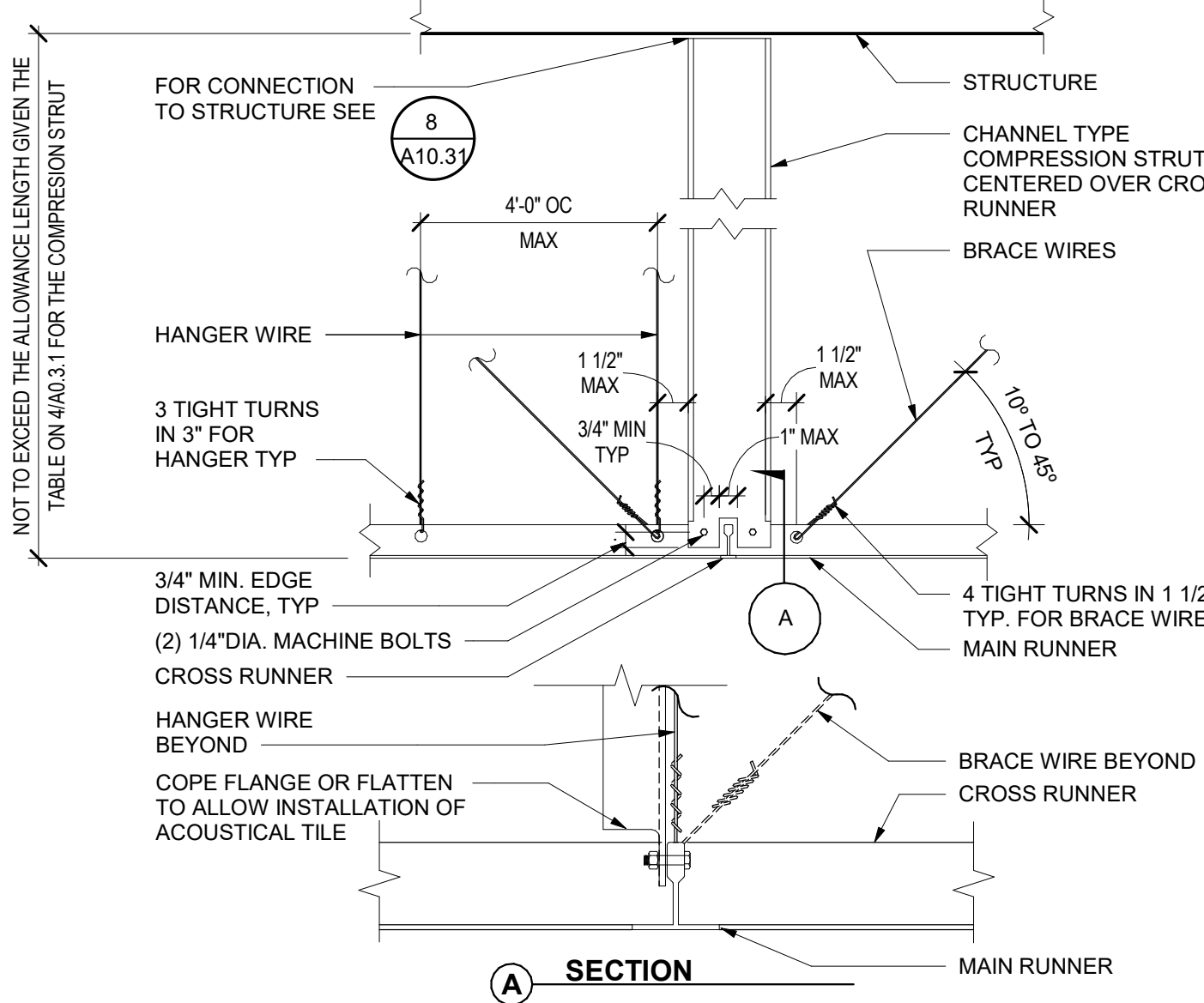
BRACING WIRE CONN. TO METAL STUD 11
3" = 1'-0"



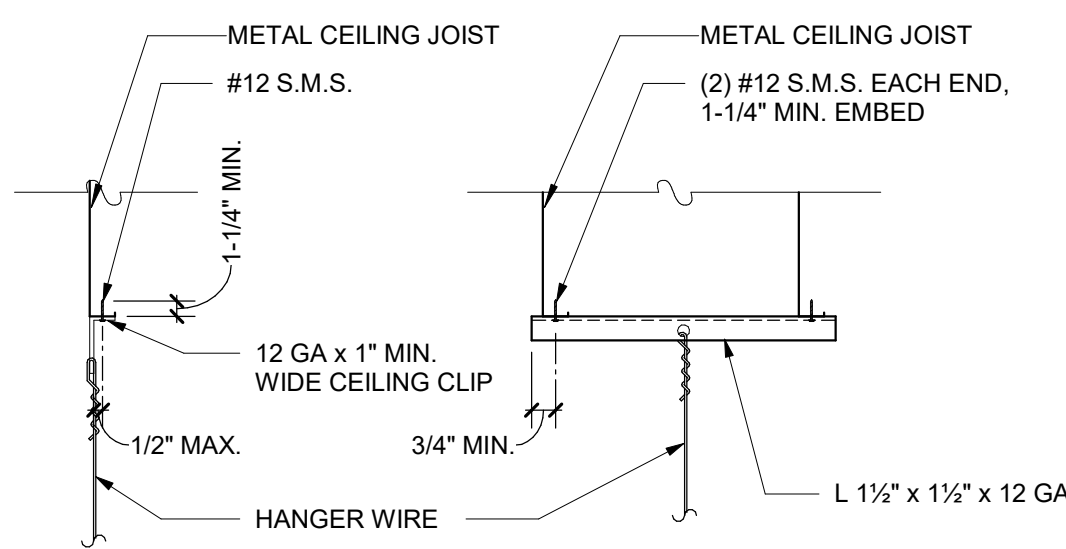
BRACING WIRE 10
1 1/2" = 1'-0"



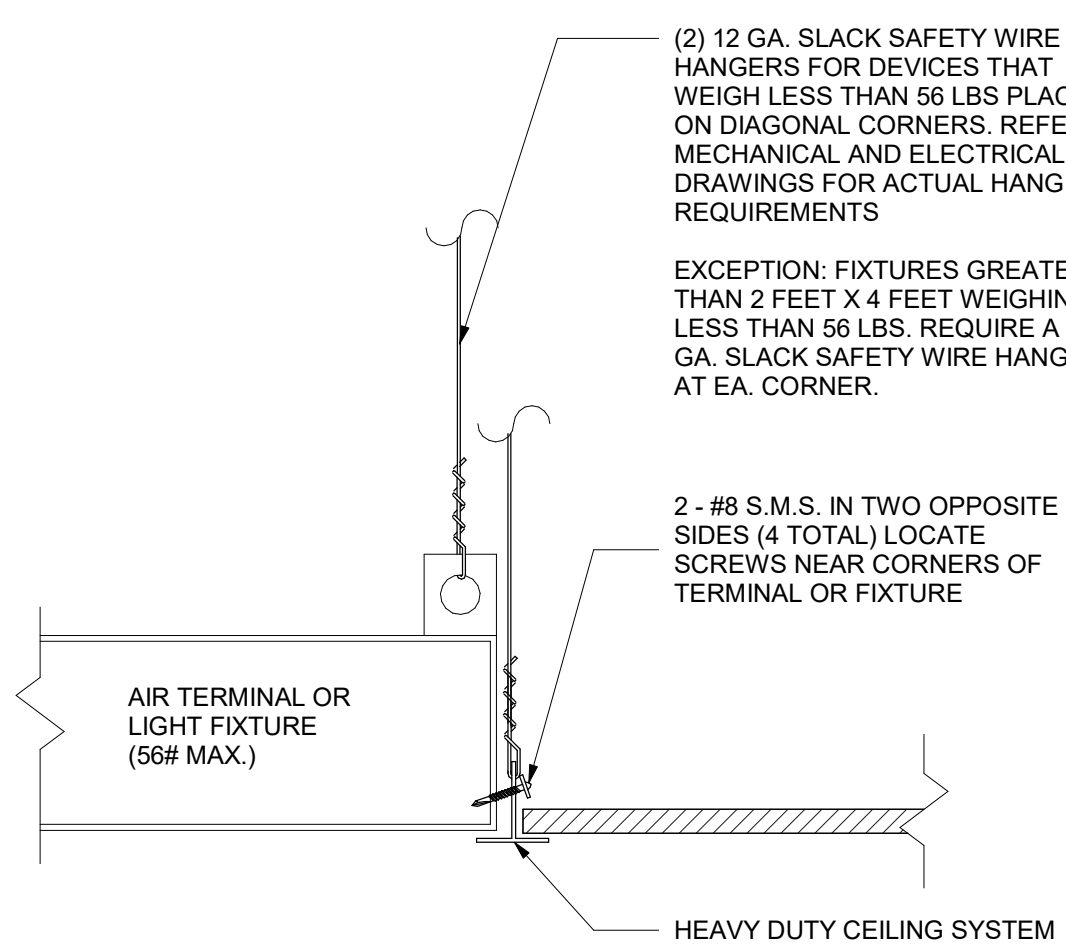
COMPRESSION STRUT 8
3" = 1'-0"



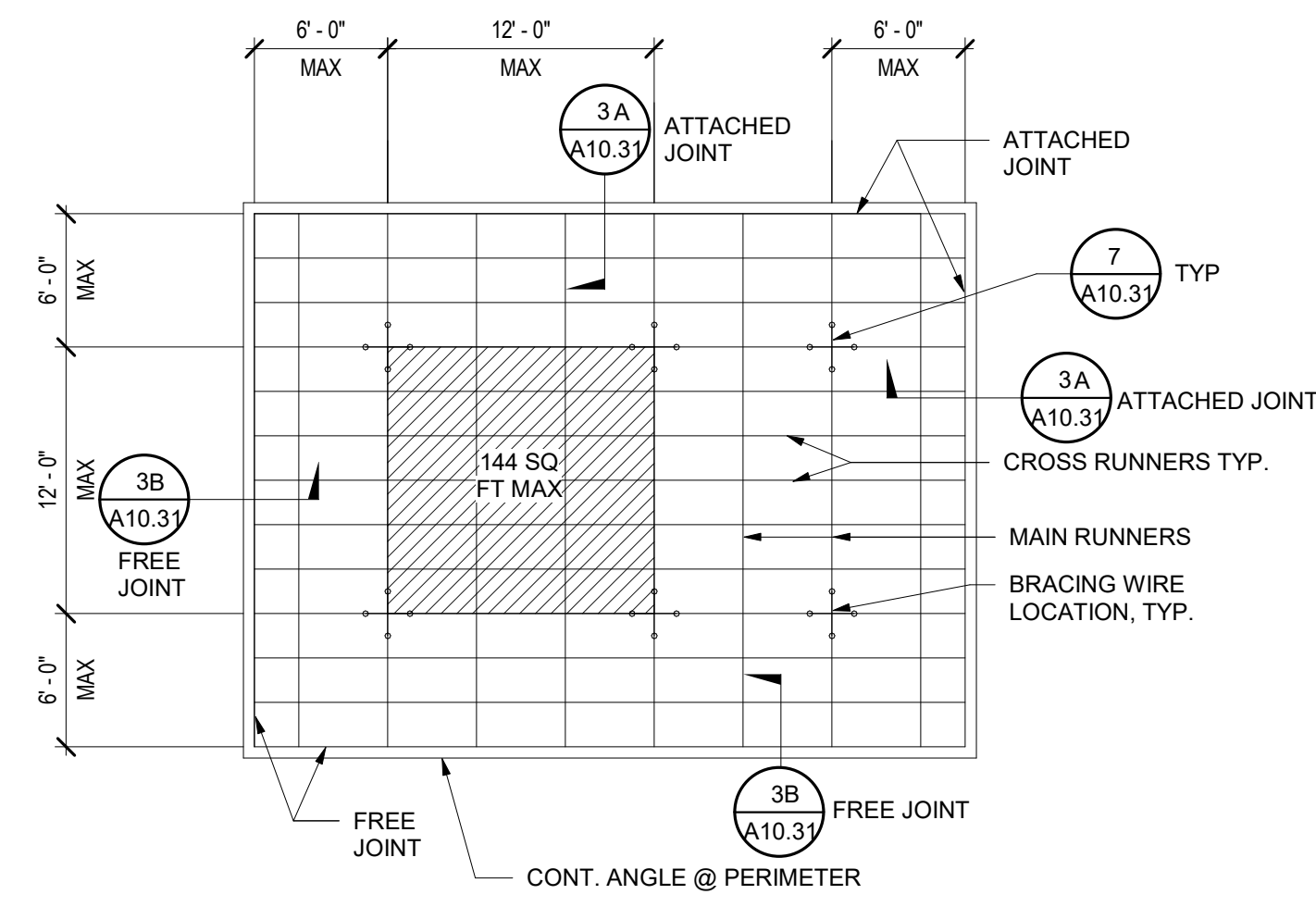
COMPRESSION STRUT 7
1 1/2" = 1'-0"



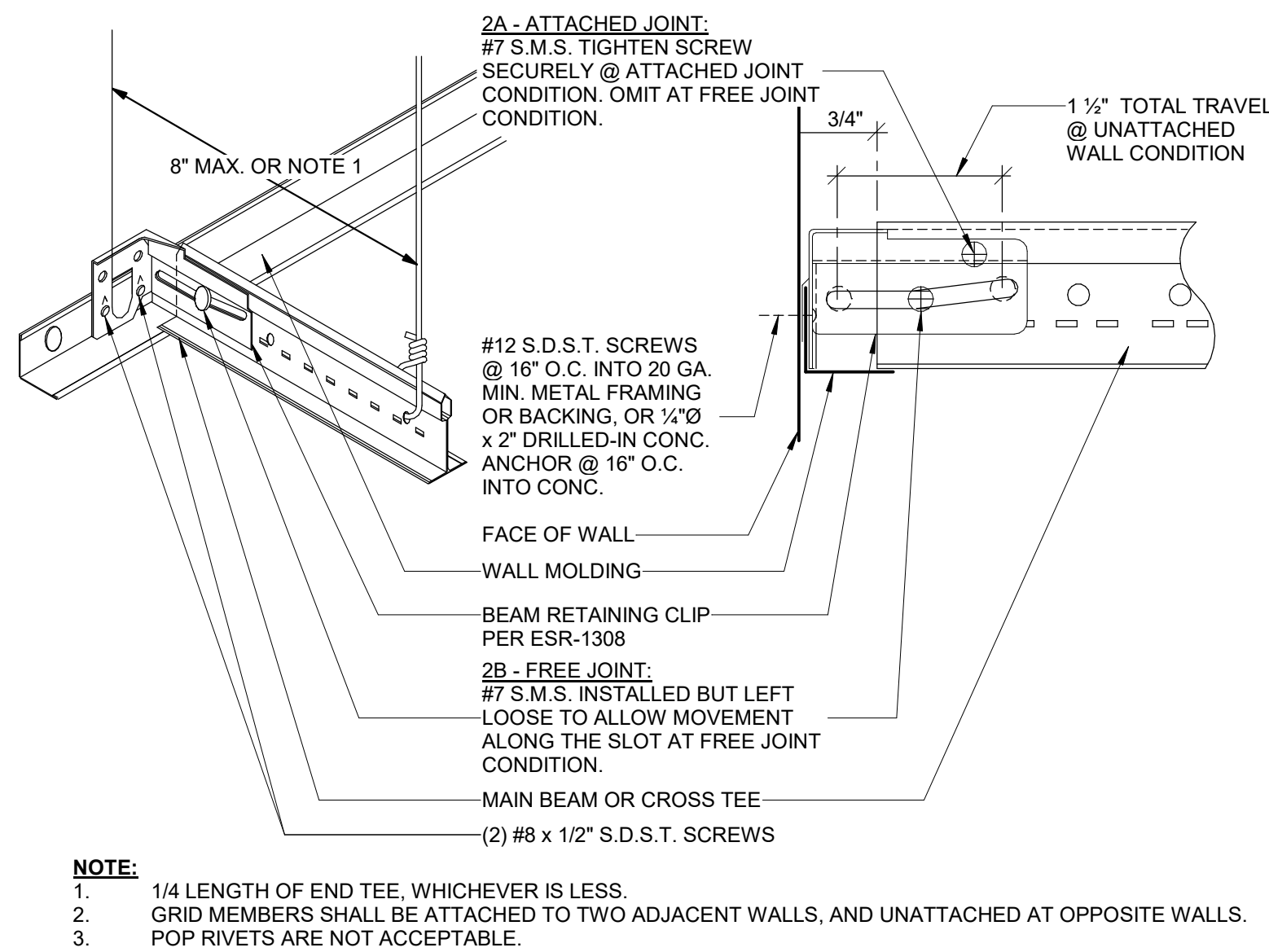
HANGER WIRE 6
1" = 1'-0"



LIGHT FIXTURE/ AIR TERMINAL 5
3" = 1'-0"

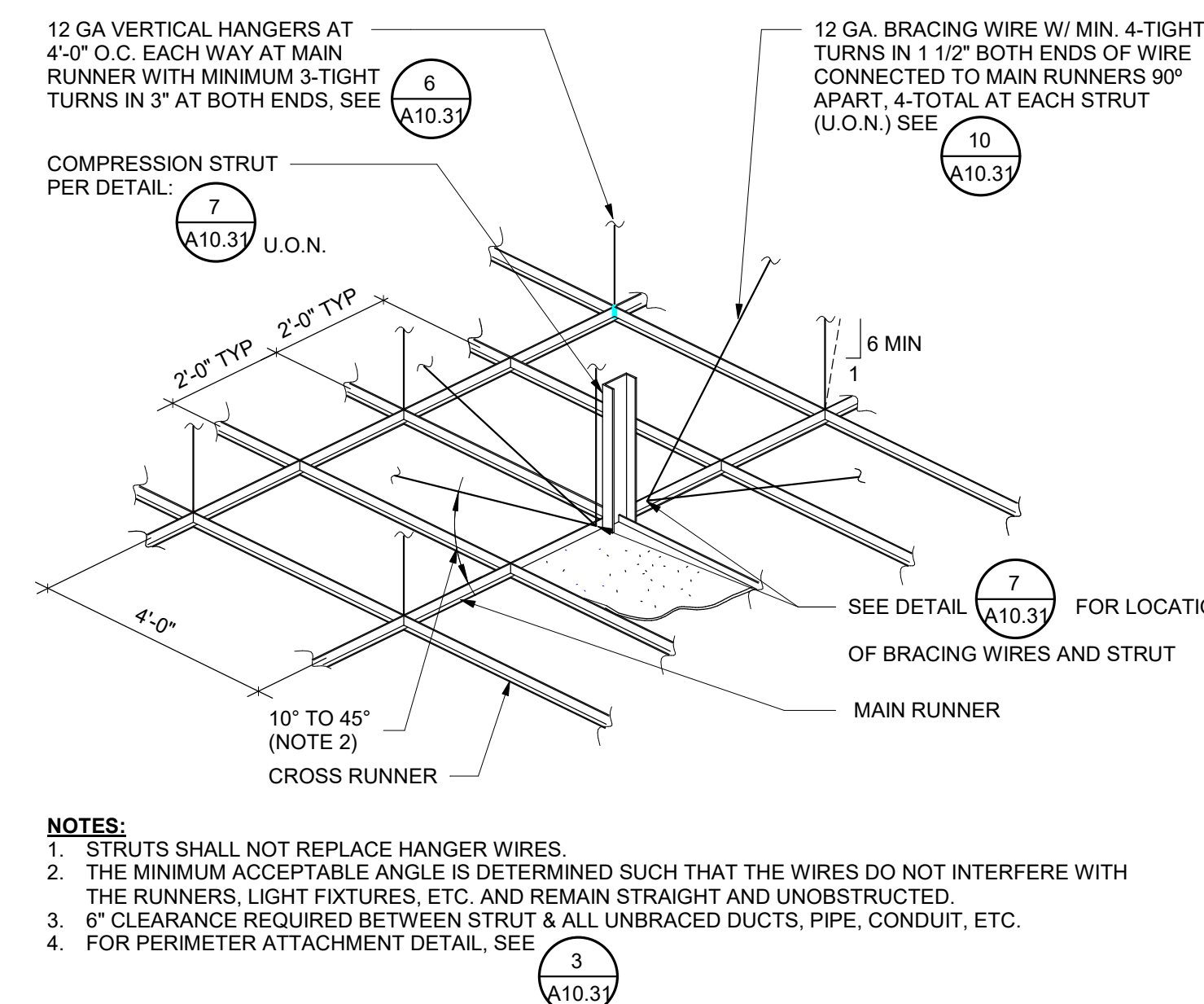


TYPICAL CEILING 4
1/8" = 1'-0"



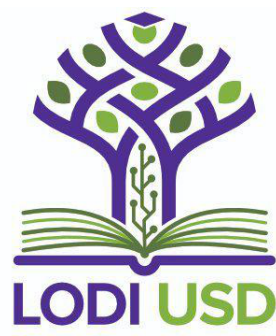
PERIMETER CEILING ATTACHMENT 3
1:1

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5' - 0"
250S137-33	6' - 10"
362S137-33	8' - 0"
250S137-43	8' - 10"
400S137-43	10' - 10"



SUSPENDED CEILING GRID 1
3" = 1'-0"

AGENCY APPROVAL:



HMC Architects

3431006000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA. 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

DESCRIPTION DATE

FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
TYPICAL CEILING DETAILS

CONSTRUCTION DOCUMENTS

DATE: 2024.06.21 CLIENT PROJ NO:
SHEET:

A10.31

PLEASE RECYCLE

SHEATHING NOTES:

- STRUCTURAL PANEL WALL SHEATHING SHALL BE 'STRUCTURAL PLYWOOD' PER THE AMERICAN PLYWOOD ASSOCIATION (APA) DOC PS-1 AND SHALL BE INSTALLED WHERE INDICATED IN THE STRUCTURAL DRAWINGS.
 - STRUCTURAL PANEL WALL SHEATHING SHALL BE $\frac{3}{4}"$ THICKNESS WITH A MINIMUM SPAN RATING OF 24/16.
 - STRUCTURAL PANEL CEILING SHEATHING SHALL BE $\frac{3}{4}"$ THICKNESS WITH A MINIMUM SPAN RATING OF 24/16.
 - STRUCTURAL PANEL SHEATHING SHALL BE EXTERIOR GRADE, EXPOSURE 1, STRUCTURAL 1.
 - FASTEN TO ALL SUPPORTS WITH #8 WAFER HEAD SCREWS SPACED AT 6"cc ALONG ALL EDGES AND 12"cc WITHIN FIELD, UNO IN THE STRUCTURAL DRAWINGS CONTAINED HEREIN.
- WALL SHEATHING FOR BACKING AND SUPPORT OF EQUIPMENT SHALL BE PER APA DOC PS-1 AND SHALL BE INSTALLED WHERE INDICATED IN THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
 - PLYWOOD BACKING SHALL BE $\frac{3}{4}"$ THICKNESS.
 - PLYWOOD BACKING SHALL HAVE A MINIMUM SPAN RATING OF $\frac{3}{4}"$.
 - PLYWOOD BACKING SHALL BE FINISH GRADE WITH ONE SIDE SANDED SMOOTH.
 - FASTEN TO ALL SUPPORTS WITH #8 WAFER HEAD SCREWS SPACED AT 6"cc ALONG ALL EDGES AND 12"cc WITHIN FIELD.
- SCREWS FOR FASTENING WALL SHEATHING PANELS TO COLD-FORMED METAL FRAMING ARE TO BE PER ASTM C-954 WITH WAFER HEADS AND REAMER WINGS. LENGTH IS TO BE SUCH THAT A MINIMUM OF 3-THREADS PROTRUDE PAST THE INSIDE SURFACE OF THE METAL SURFACE TO WHICH THE SHEATHING IS BEING FASTENED.
- ALL SHEATHING PANELS ARE TO BE INSTALLED WITH $\frac{1}{8}"$ GAP AT ENDS AND EDGES.
- SHEATHING IS TO BE INSTALLED AND PROTECTED SUCH THAT IT IS NOT EXPOSED TO PRECIPITATION.

POST INSTALLED ANCHOR NOTES:

- ALL POST INSTALLED ANCHORS ARE TO BE INSTALLED PER MANUFACTURER FOR EACH ANCHOR AND PER THE ICC REPORTS LISTED BELOW.
- ALL POST-INSTALLED ANCHORS ARE TO BE CAREFULLY INSTALLED SO AS TO NOT DISTURB OR DAMAGE THE STEEL REINFORCING IN ANY WAY. ANCHORS MAY NOT BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED A MINIMUM AGE OF 28 DAYS.
- ALL HOLES FOR DRILLED-IN ANCHORS SHALL BE COMPLETELY DRY AND WELL CLEANED WITH A BOTTLE BRUSH AND COMPRESSED AIR PRIOR TO INSTALLING THE ANCHORS.
- ALL DRILLED-IN ANCHORS SHALL BE TESTED AND INSPECTED PER CHAPTER 17A OF THE 2022 CBC. INSPECTION DURING INSTALLATION AND TESTING UPON COMPLETION OF INSTALLATION SHALL BE DONE BY A CERTIFIED TESTING LABORATORY.
- POST-INSTALLED ANCHORS ARE TO BE AS FOLLOWS:
 - EXPANSION ANCHORS IN CONCRETE
HILTI KB T22 PER ICC-ES ESR-4266
 - EXPANSION ANCHORS IN FULLY GROUTED CMU
HILTI KB T22 PER ICC-ES ESR-4561
 - EPOXY ANCHORS IN CONCRETE
HILTI HIT-RE 500 V3 PER ICC-ES ESR-3814
- POST-INSTALLED ANCHORS ARE TO BE INSTALLED ONLY WHERE SPECIFICALLY DETAILED, WITH EMBEDMENTS AS SPECIFICALLY IDENTIFIED IN EACH APPLICABLE DETAIL. FOR ADDITIONAL INFORMATION, UNO, FOR EXPANSION ANCHORS, SEE TABLES BELOW.
- POST-INSTALLED ANCHORS MAY NOT BE USED AT LOCATIONS OTHER THAN THOSE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

CONCRETE: HILTI KWIK BOLT T22 EXPANSION ANCHORS
SEE ICC-ES ESR-4266 TABLE 1

ANCHOR DIAMETER	$\frac{3}{8}"$	$\frac{1}{2}"$	$\frac{3}{4}"$
BIT DIAMETER	$\frac{3}{8}"$	$\frac{1}{2}"$	$\frac{3}{4}"$
NOMINAL EMBEDMENT	$2\frac{1}{2}"$	$2\frac{3}{4}"$	$4\frac{1}{2}"$
SOLE DEPTH	$2\frac{3}{4}"$	$2\frac{3}{4}"$	$4\frac{1}{2}"$
TORQUE (STAINLESS STEEL)	30 FT-LB	40 FT-LB	60 FT-LB

GENERAL NOTES:

- ALL NEW WORK SHALL CONFORM TO TITLE 24 2022 EDITIONS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
- THIS SET OF STRUCTURAL DRAWINGS IS APPLICABLE ONLY TO THE LISTED PROJECT AND SITE LOCATION.
- NOTES ON THIS SHEET ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. TYPICAL DETAILS SHALL APPLY FOR ALL LIKE CONDITIONS UNLESS OTHERWISE NOTED OR DETAILED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, EXISTING CONDITIONS, AND OTHER RELATED ITEMS. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CONFLICTS ARE SHOWN OR NOTED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO RELEVANT SECTIONS OF THE CALIFORNIA "CONSTRUCTION SAFETY ORDERS" AND ALL OSHA REQUIREMENTS. THE ENGINEER OF RECORD ACCEPTS NO RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY W/ THESE REQUIREMENTS.
- STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. DESIGN AND CONSTRUCTION OF ALL TEMPORARY BRACING, SHORING, FORMING, ETC REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

INSPECTION NOTES:

- ALL TESTS AND INSPECTIONS ARE TO BE PROVIDED BY A QUALIFIED TESTING LAB OF RECORD, HIRED BY THE DISTRICT (T-24 PART 1, 4-335).
- ALL TESTS AND INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE 2022 CBC AND THE SPECIAL INSPECTIONS CRITERIA LISTED ON THIS SHEET.

COLD FORMED STEEL NOTES:

- ALL COLD-FORMED STEEL CONSTRUCTION SHALL BE PER AISI S100-16 (2020) WITH S2-20.
- SUBMITTALS:
 - SHOP DRAWINGS - DRAWINGS INDICATING WALL FRAMING, FRAMED OPENINGS, AND FASTENERS AND CONNECTIONS ASSOCIATED THEREWITH.
 - PRODUCT DATA - DATA ON FRAMING MEMBERS AND LIGHT-GATE FRAMING CONNECTORS, INCLUDING CURRENT ENGINEERING REPORTS.
- ALL COLD-FORMED STEEL CONSTRUCTION SHALL BE FROM MANUFACTURERS WHO ARE MEMBERS OF THE 'STEEL STUD MANUFACTURER'S ASSOCIATION' (SSMA) WITH PRODUCTS MEETING THE REQUIREMENTS OF ICC-ESR ER-3064P, LATEST REVISION.
- ALL METAL STUDS USED IN STRUCTURAL APPLICATIONS - EXTERIOR WALLS, BEARING WALLS, SHEAR WALLS - SHALL BE 43 MILS MINIMUM, WITH SIZES AND GREATER THICKNESS AS INDICATED IN THIS DRAWING SET. ALL METAL STUD FRAMING SHALL BE PROTECTED BY A RUST INHIBITIVE COATING PER DSA IR-PC-2 TO MEET G90 COATING CLASS.
- ALL METAL STUDS USED IN NON-STRUCTURAL APPLICATIONS MAY BE 33 MILS OR 43 MILS.
- ALL CEILING JOISTS SHALL BE 43 MILS MINIMUM, WITH SIZES AS INDICATED IN THIS DRAWING SET.
- ALL STUDS WITH THICKNESS NOT GREATER THAN 43 MILS SHALL BE ASTM A653 S55 GRADE 33 OR ASTM A1003 GRADE 33. ALL STUDS WITH THICKNESS OF 54 MILS AND GREATER SHALL BE ASTM A1003 GRADE 50.
- ALL STUDS, JOISTS, AND STUD BLOCKING SHALL HAVE A MINIMUM FLANGE WIDTH OF 1.625" UNLESS NOTED OTHERWISE. ALL TRACKS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1.500" UNLESS NOTED OTHERWISE.
- ALL METAL STUDS ARE TO HAVE FULL, TIGHT BEARING IN TRACKS.
- METAL STUD COMPONENTS AND CONNECTORS ARE TO BE BY 'SCAFCO' UNLESS NOTED OTHERWISE.
- METAL STUD AND JOIST DESIGNATIONS:
 - STUD OR JOIST 600S162-43 INDICATES A 6" STUD SHAPE WITH A 1.625" FLANGE AND A THICKNESS OF 43 MILS
 - TRACK 600T150-43 INDICATES A 6" TRACK SHAPE WITH A 1.500" FLANGE AND A THICKNESS OF 43 MILS
- COLD-FORMED STEEL FRAMING CONNECTIONS SUCH AS STUD-TO-STUD, STUD-TO-TRACK, AND JOIST TO TRACK OR STUD ARE TO BE WITH 'TEKS SELECT' #10 SHEET METAL SCREWS (#10 SMS) BY ITW BUILDEX PER ICC ESR-3223 UNLESS NOTED OTHERWISE. ALL SMS ARE TO HAVE A MINIMUM OF 3-THREADS PROTRUDING THROUGH THE BACKSIDE OF FASTENED PLIES. SHEET METAL SCREWS ARE TO BE PER ASTM A-123, HOT DIPPED GALVANIZED TO 1.25 oz/sq ft.
- ALL LIGHT GAGE METAL CONNECTORS ARE TO BE BY 'SIMPSON' UNO.
- ALL SIMPSON 'HOLDOWN' HARDWARE IS TO BE PER IAPMO EVALUATION REPORT NO. 124.
- COLD-FORMED STEEL FRAMING IS TO BE PER THE DETAILS SHOWN ON SHEET S0.02. UNO. FRAMING IS TO BE AS FOLLOWS:
 - STRUCTURAL WALL SHEATHING IS TO BE INSTALLED PER A/50.02.
 - WALLS WITH OPENINGS ARE TO BE FRAMED PER B/50.02.
 - DOOR OPENINGS ARE TO BE FRAMED PER 1/50.02.
 - WINDOW OPENINGS ARE TO BE FRAMED PER 2/50.02.
 - TRACKS AT NON-STRUCTURAL WALLS ARE TO BE ATTACHED TO SLABS PER 3/50.02.
 - FULL DEPTH BLOCKING AS INDICATED IN ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS, ETC. IS TO BE PER 4A/50.02 AND 4B/50.02.
 - CONTINUOUS BLOCKING AS INDICATED IN ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS, OR OTHER IS TO BE PER 5/50.02.
 - METAL STUD BRIDGING IS TO BE PROVIDED PER DETAIL 6/50.02 OR 7/50.02 AT ALL WALL LOCATIONS WHERE $\frac{3}{8}"$ GYPSUM WALL BOARD IS NOT PROVIDED ON BOTH SIDES OF THE METAL STUDS.
 - WALL TOP TRACKS AT SPLICES AND INTERSECTIONS ARE TO BE PER 8/50.02.
 - HOLES IN METAL STUDS ARE TO BE WITHIN THE PARAMETERS SET FORTH IN 9/50.02.
 - WALL INTERSECTIONS ARE TO BE FRAMED PER 10/50.02.

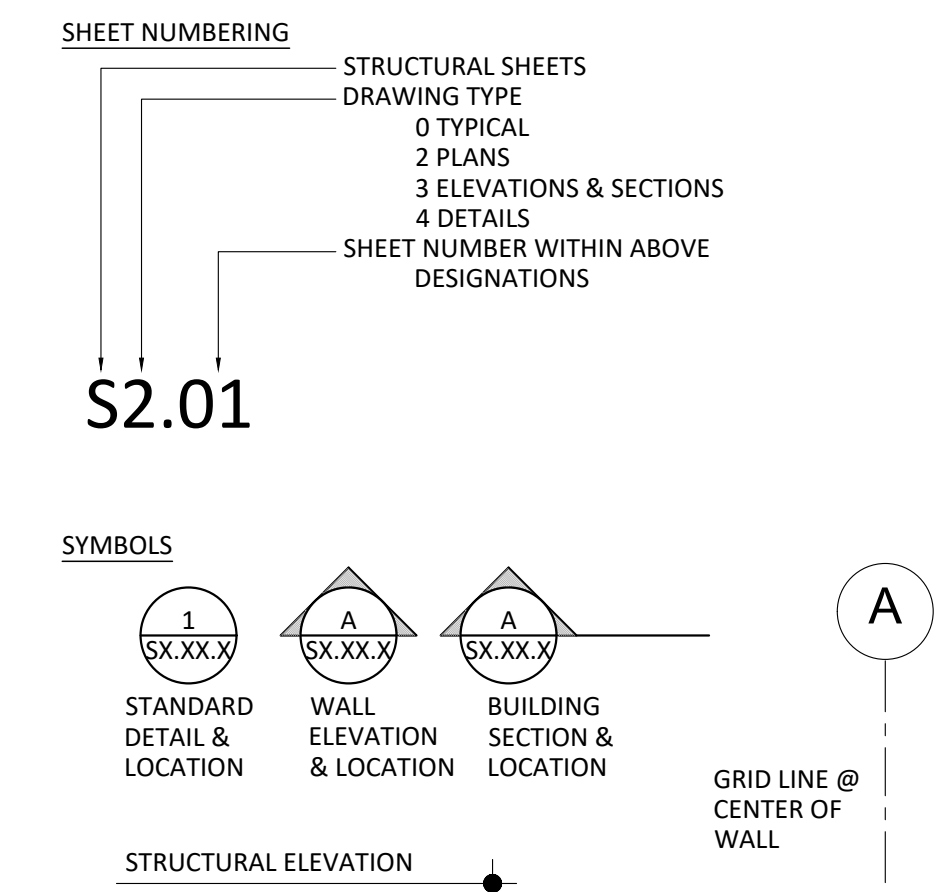
STRUCTURAL SHEET INDEX:

S0.01	TYPICAL STRUCTURAL NOTES
S0.02	TYPICAL METAL STUD FRAMING & MISCELLANEOUS DETAILS
S2.11	FOUNDATION & CEILING FRAMING PLANS
S4.11	SECTION & WALL FRAMING ELEVATIONS
	DETAILS

ABBREVIATIONS:

@	AT
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECT/ARCHITECTURAL
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BLKG	BLOCKING
BLW	BELOW
BTWN	BETWEEN
B.O.	BOTTOM OF
BOT	BOTTOM
CBC	CALIFORNIA BUILDING CODE
cc	CENTER TO CENTER
CJ	COLD JOINT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
Ø	DIAMETER
DWGS	DRAWINGS
ES	EDGE SCREW WITH SPACING PER PLAN
F.O.	FACE OF
FRMG	FRAMING
HD	HOLDOWN
HSS	HOLLOW STRUCTURAL SECTION
L	STEEL ANGLE
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
#	NUMBER OR POUNDS
OH	OPPOSITE HAND
O/	OVER
SEOR	STRUCTURAL ENGINEER OF RECORD
SMS	SHEET METAL SCREW
SP	STRUCTURAL PANEL SHEATHING
T & B	TOP AND BOTTOM
THRU	THROUGH
T.O.	TOP OF
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
w/	WITH

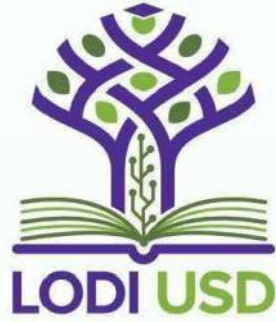
DRAWING STANDARDS:



DESIGN CRITERIA:

- PROJECT ADDRESS: 851 GUILD AVENUE
LODI, CA 95240
- BUILDING CODE: 2022 CALIFORNIA BUILDING CODE
- GRAVITY LOADS:
MAIN BUILDING ROOFS
ROOF LIVE LOAD = 20 PSF (REDUCIBLE)
CEILING DEAD LOAD = 7 PSF
WALL WEIGHTS
EXTERIOR WALLS = 15 PSF
INTERIOR WALLS = 10 PSF
- LATERAL LOADS: RISK CATEGORY II
SEISMIC LOADS (ASCE 7-16)
SITE CLASS D
SEISMIC DESIGN CATEGORY D
IMPORTANCE FACTOR 1.00
 $S_s = 0.598$
 $F_s = 1.322$
 $S_{ds} = 0.790$
 $S_{d1} = 0.527$
 $S_s = 0.252$
 $F_s = 2.097$
 $S_{ds} = 0.528$
 $S_{d1} = 0.352$
LATERAL SYSTEM: LIGHT-FRAMED (COLD-FORMED STEEL) WALLS
SHEATHED WITH WOOD STRUCTURAL PANELS (ASCE 7-16 TABLE 12.2-1; A-16)
 $R = 6.5$
 $C_s = 2.5$
 $C_e = 4.0$
 $p = 1.3$
 $V(ASD) = 0.7 \times p \times C_s \times W$
 $= 0.074 \times W$
LATERAL SYSTEM IRREGULARITIES: NONE
BASE OF STRUCTURE: FINISH FLOOR +0'-0"
- GEOTECHNICAL CRITERIA:
GEOTECHNICAL AND GEOHAZARDS REPORT NOT PROVIDED. SOILS
CRITERIA BASED UPON PRESUMPTIVE MIN LOAD-BEARING VALUES PER
2022 CBC TABLE 1806A.2
ALLOWABLE BEARING PRESSURE (D+L) = 1,500 PSF
(INCLUDING W OR E) = 1,500 PSF
PASSIVE PRESSURE = 100 PCF

AGENCY
APPROVAL:



HMC Architects

3431006-000

2101 CAPITOL AVENUE, SUITE 1100
SACRAMENTO, CA 95816
916 325 1100 / www.hmcarchitects.com

ISSUE

DESCRIPTION	DATE
-------------	------

RW CONSULTING
Engineers Inc
1450 HARBOR BLVD SUITE F
WEST SACRAMENTO, CA 95691
916.716.6910



11/19/2024

FACILITY:

LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:

WAREHOUSE IT OFFICE ADDITION

SHEET NAME:

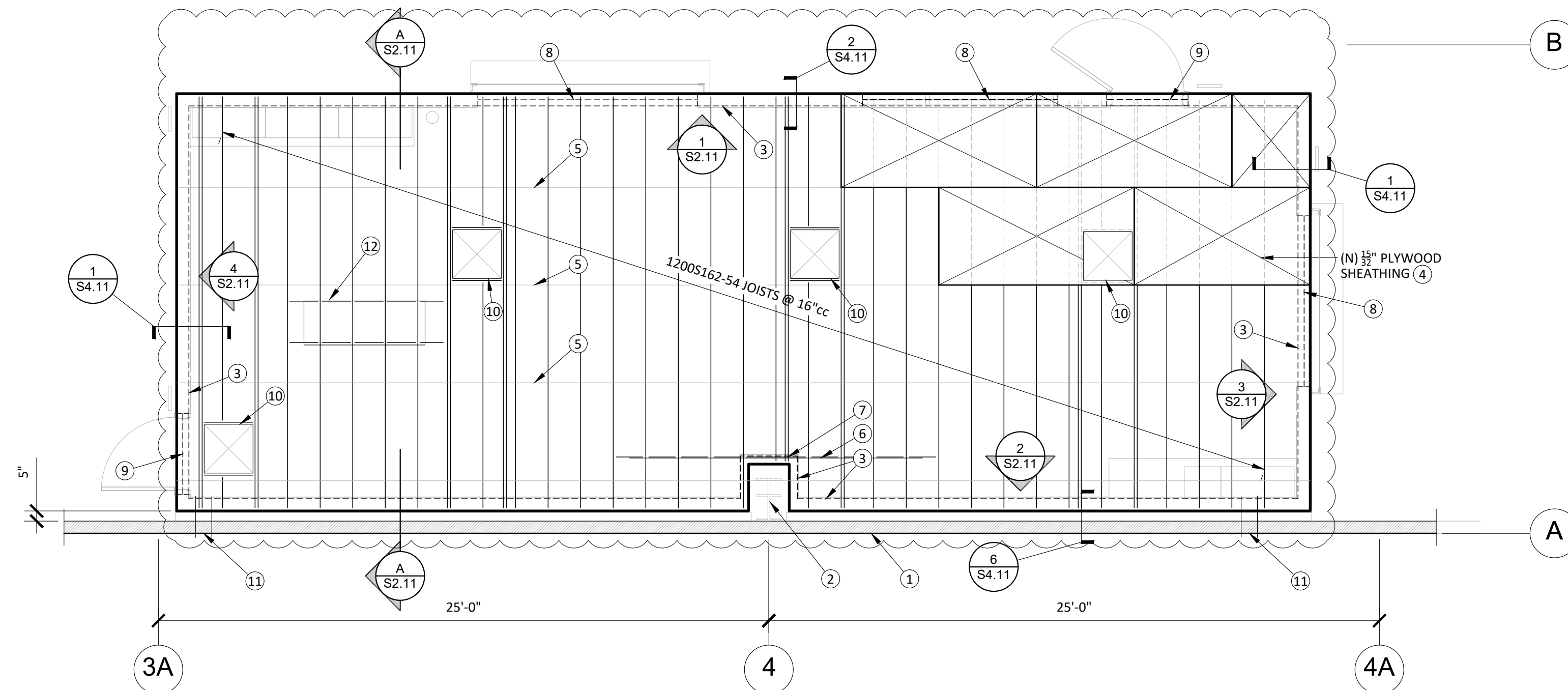
TYPICAL STRUCTURAL NOTES

CONSTRUCTION DOCUMENTS

DATE: 10/29/2024 CLIENT PROJ NO: 3431006-000

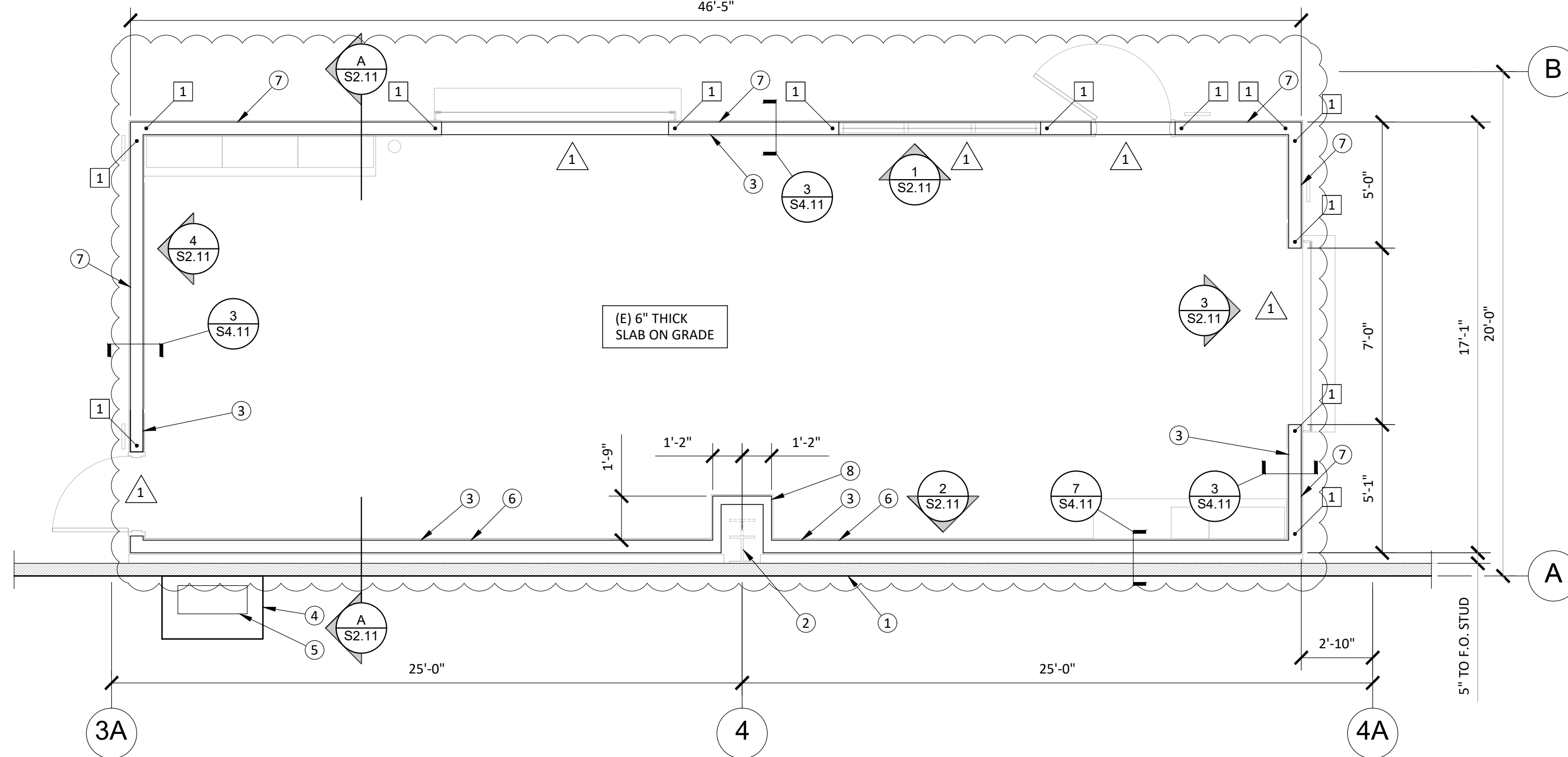
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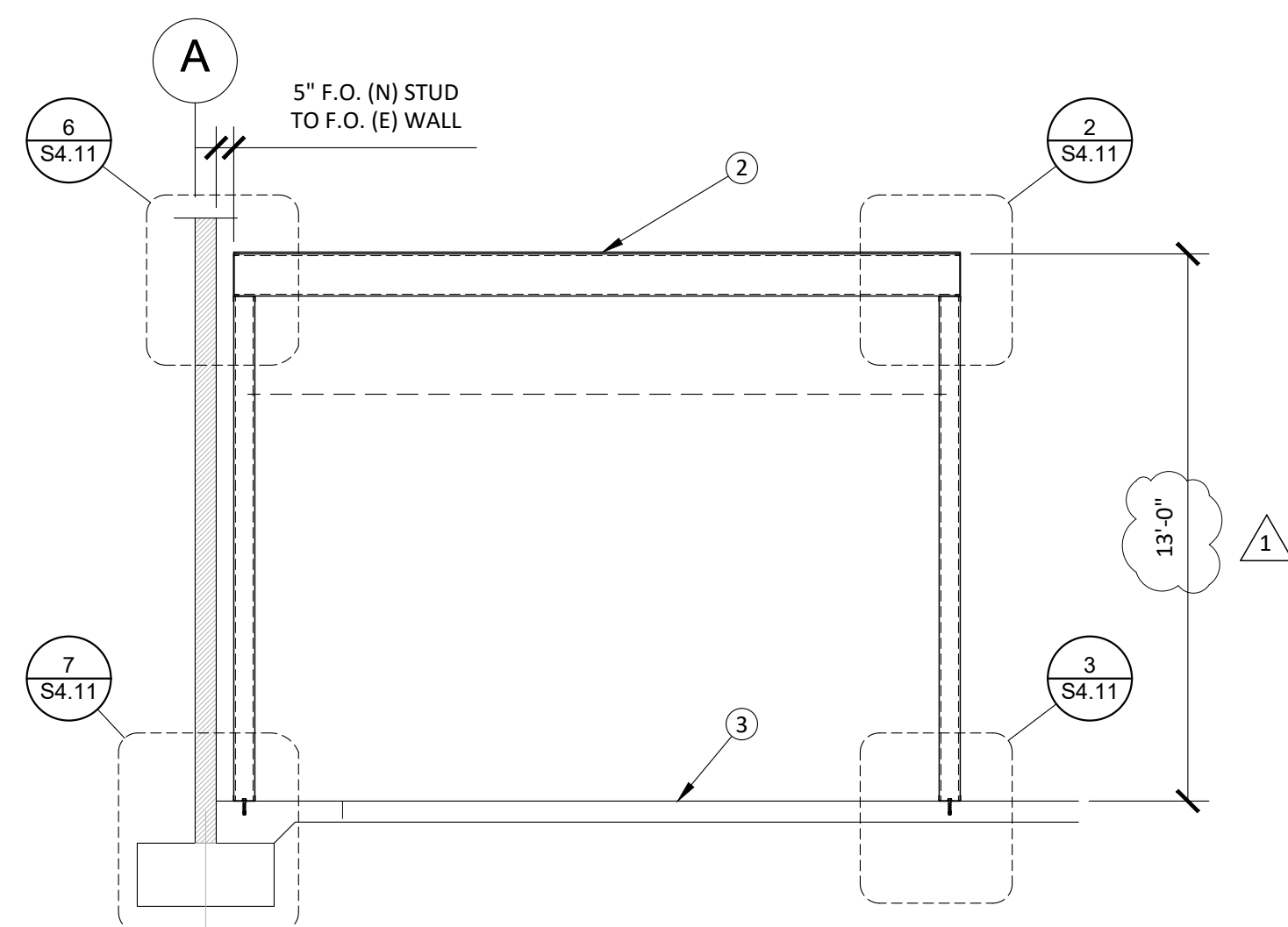
CEILING FRAMING PLAN

1/2" = 1'-0"



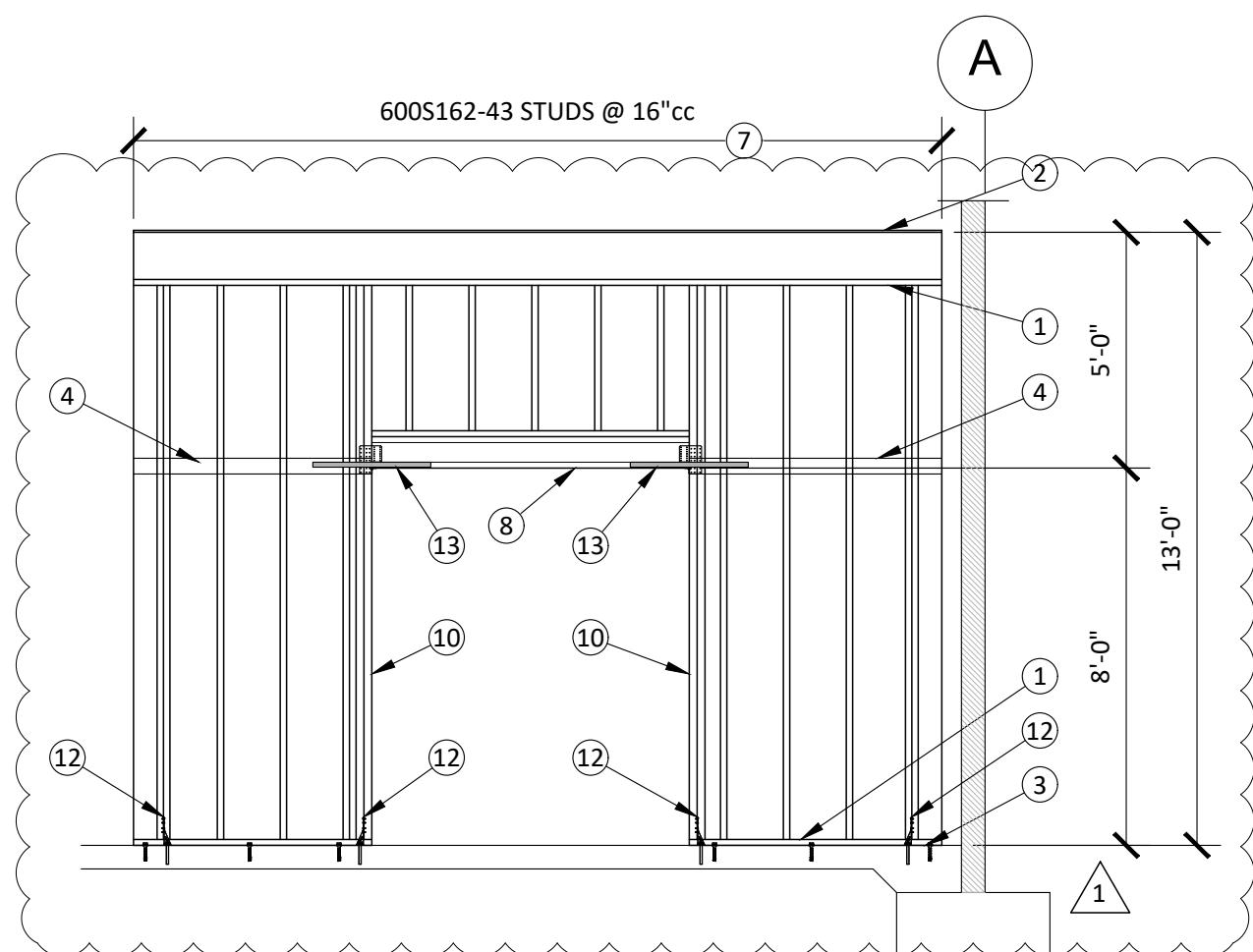
FOUNDATION PLAN

1/2" = 1'-0"



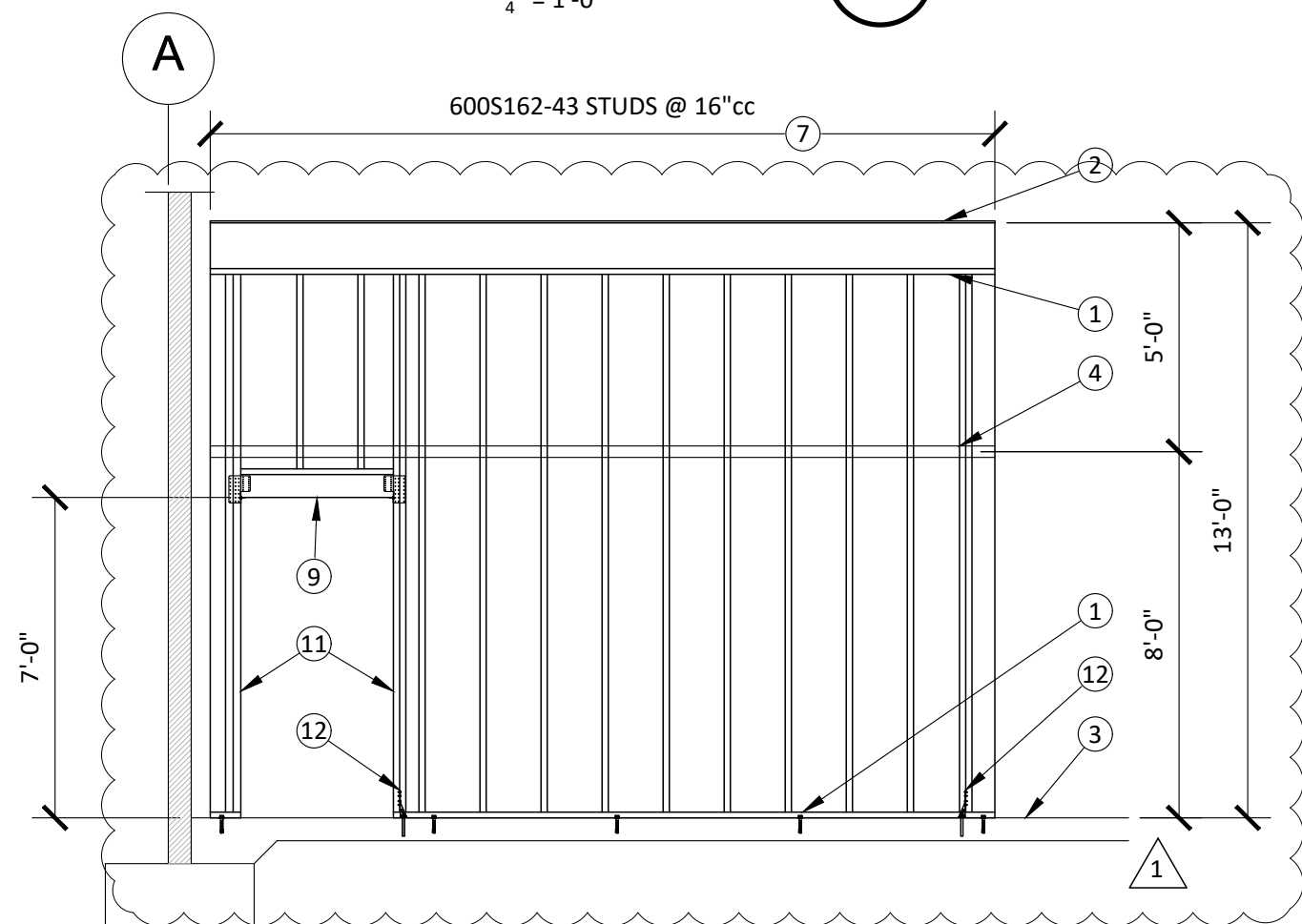
CROSS SECTION

1/2" = 1'-0"



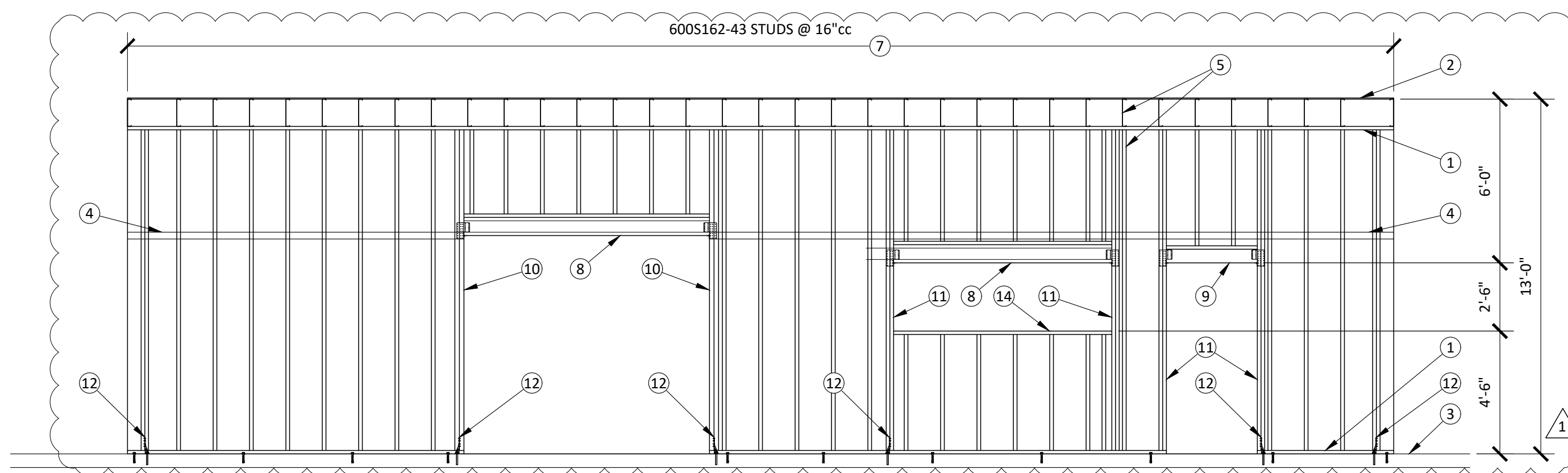
WALL ELEVATION

1/2" = 1'-0"



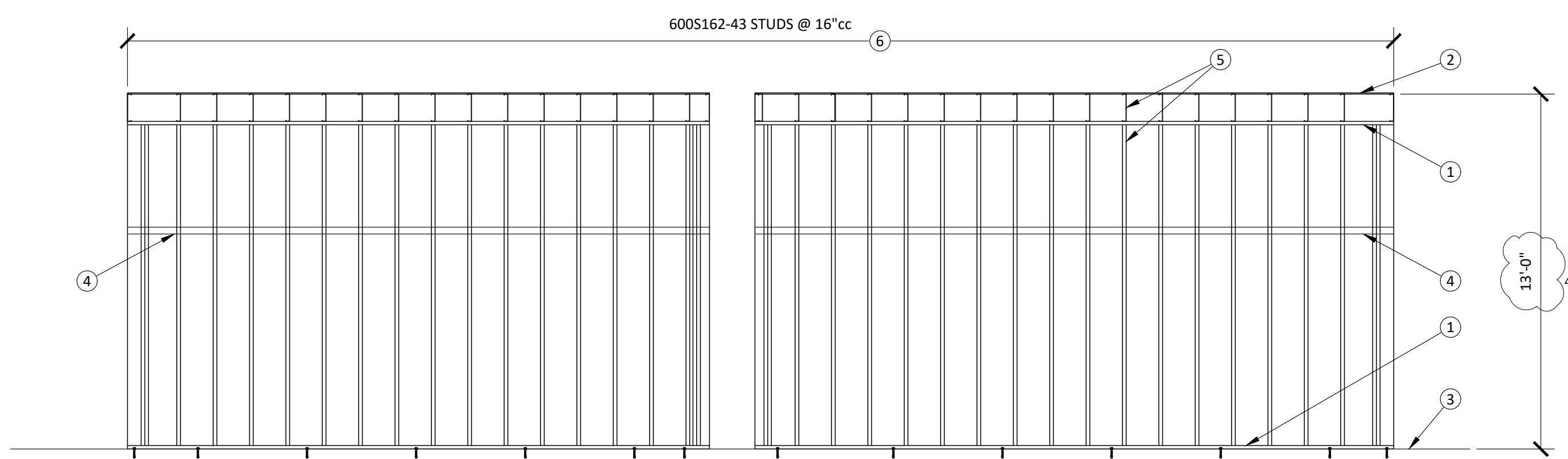
WALL ELEVATION

1/2" = 1'-0"



WALL ELEVATION

1/2" = 1'-0"



WALL ELEVATION

1/2" = 1'-0"



NOTES:

1. WALL FRAMING DIMENSIONS SHOWN ARE APPROXIMATE AND ARER TO BE CONFIRMED WITH ARCHITECTURAL DRAWINGS.
2. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
3. STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE INTERIOR UPGRADES TO THE BUILDING. ALL WORK PERFORMED IS TO NOT IMPACT EXISTING LATERAL FORCE RESISTING SYSTEM.

CEILING FRAMING PLAN LEGEND:

EXISTING STUD WALL TO REMAIN	----
EXISTING WALL TO BE REMOVED	----
NEW WOOD FRAMED WALL	----
EXISTING JOIST/ FRAMING MEMBER	----

CEILING FRAMING PLAN KEYNOTES:

1. (E) EXTERIOR CONCRETE WALL TO REMAIN UNMODIFIED UNO
 2. (E) STEEL COLUMN TO REMAIN
 3. (N) INTERIOR WALL FRAMED WITH 600S162-43 STUDS @ 16"cc - SEE ARCH DWGS
 4. FASTEN WITH #8 SCREWS AT 6"cc ALONG ALL EDGES AND 12"cc WITHIN FIELD
 5. (N) 1200S162-54 FULL DEPTH BLOCKING, TYP AT SP EDGES
 6. (N) CS14 x 12'-0" WITH #10 SCREWS AT 4"cc TO 400S162-43 FLAT BLOCKING BETWEEN JOISTS
 7. (N) 1200S162-43 TO HEAD OUT JOIST AT COLUMN
 8. (N) 8" DEEP CFS BOX-HEADER - SEE WALL ELEVATION KEYNOTE 8
 9. (N) 6" DEEP CFS BOX-HEADER - SEE WALL ELEVATION KEYNOTE 9
 10. OPENING FOR DUCT DROP PER 8/S4.11 - SEE MECH DWGS
 11. (N) 8"Ø MAX HOLE TO BE CUT INTO (E) CONCRETE WALL FOR MECHANICAL AIR INTAKE - COORDINATE LOCATION WITH MECHANICAL DRAWINGS
 12. (N) MECHANICAL EQUIPMENT SUSPENDED BELOW CEILING FRAMING, 200 LB MAX - SEE MECH DWGS
- CONTRACTOR IS TO ACCURATELY LOCATE ALL VERTICAL AND HORIZONTAL REINFORCING STEEL IN WALL BY NON-DESTRUCTIVE MEANS PRIOR TO CUTTING HOLE - (E) REINFORCING IS NOT TO BE DISTURBED, (N) HOLE IS TO BE CENTERED BETWEEN (E) HORIZONTAL AND VERTICAL REINFORCING BARS. IF THESE PARAMETERS CANNOT BE MET, SEOR IS TO BE NOTIFIED FOR FURTHER REVIEW AND DIRECTION.

FOUNDATION PLAN LEGEND:

EXISTING CONCRETE WALL	=====
NEW METAL STUD WALL	=====

FOUNDATION PLAN KEYNOTES:

1. (E) EXTERIOR CONCRETE WALL TO REMAIN UNMODIFIED UNO
2. (E) STEEL COLUMN TO REMAIN
3. (N) INTERIOR WALL FRAMED WITH 600S162-43 STUDS @ 16"cc - SEE ARCH DWGS
4. (N) CONCRETE EQUIPMENT PAD, 2'-6" x 4'-0" (VERIFY SIZE WITH MECHANICAL EQUIPMENT - SEE 11/S0.02
5. (N) MECHANICAL EQUIPMENT, 220 LB MAX - SEE MECHANICAL DRAWINGS
6. (N) 1/2" SP TYP AT INTERIOR F.O. WALL - FASTEN WITH #8 SCREWS AT 6"cc ALONG ALL EDGES AND 12"cc WITHIN FIELD
7. (N) 1/2" SP TYP AT EXTERIOR F.O. WALL - FASTEN WITH #8 SCREWS AT 6"cc ALONG ALL EDGES AND 12"cc WITHIN FIELD
8. (N) BOX-OUT AT (E) COLUMN FRAMED WITH 400S162-43 STUDS @ 16"cc WITH TRACK ATTACHMENT PER 3/S0.02 - SEE ARCH DWGS

HOLDOWN SCHEDULE:

HOLDOWN	ANCHOR BOLT	FASTENERS
1	SIMPSON 5/DTT22	1/2"Ø 8-#14 SELF-DRILLING SCREWS

SEE DETAIL 4/S4.11 FOR HOLDOWN INSTALLATION.

WALL ELEVATION KEYNOTES:

1. (N) 600T150-43
2. (N) 1/2" SP OVER 1200S162-43 CEILING JOISTS @ 16"cc. ALIGN CEILING JOISTS WITH STUDS, TYP
3. (E) SLAB ON GRADE
4. CONTINUOUS 400T125-43 NOTCHED TRACK BACKING - SEE 5/S0.02 OR 3"x43 MIL FLAT STRAP BACKING - SEE 4A/S0.02, TYP @ HORIZONTAL JOINTS
5. ALIGN CEILING JOISTS WITH STUDS, TYP
6. (N) 1/2" SP TYP AT INTERIOR F.O. WALL
7. (N) 1/2" SP TYP AT EXTERIOR F.O. WALL
8. (N) CFS BOX-HEADER, 2-600S200-54 JOISTS ON EDGE WITH 600T150-43 TRACK TOP AND BOTTOM - SEE S0.02 AND 5/S4.11 - PROVIDE SHH6/54 EACH SIDE EACH END TO KING STUDS
9. (N) CFS BOX-HEADER, 2-600S162-43 JOISTS ON EDGE WITH 600T150-43 TRACK TOP AND BOTTOM - SEE S0.02 - PROVIDE SHH6/54 EACH SIDE EACH END TO KING STUDS
10. (N) 2-600S200-54 KING STUDS - SEE 2/S0.02
11. (N) 2-600S162-43 KING STUDS - SEE 2/S0.02
12. (N) HOLDOWN PER FOUNDATION PLAN - SEE 4/S4.11
13. (N) MISTA30 CENTERED ACROSS EDGE OF DOOR - INSTALL TO FLAT TRACK BACKING AND HEADER WITH 16-#10 SMS

AGENCY APPROVAL:



HMC Architects

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ISSUE

DESCRIPTION	DATE
1	PC COMMENTS
	OCTOBER 29, 2024

RW CONSULTING
Engineers Inc
1450 HARBOR BLVD SUITE F
WEST SACRAMENTO, CA 95691
916.716.6910



FACILITY:

LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:

WAREHOUSE IT OFFICE ADDITION

SHEET NAME:

FOUNDATION & CEILING FRAMING PLANS
SECTION & WALL FRAMING ELEVATIONS

CONSTRUCTION DOCUMENTS

DATE: 10/29/2024

CLIENT PROJ NO: 3431006-000

SHEET:

S2.11



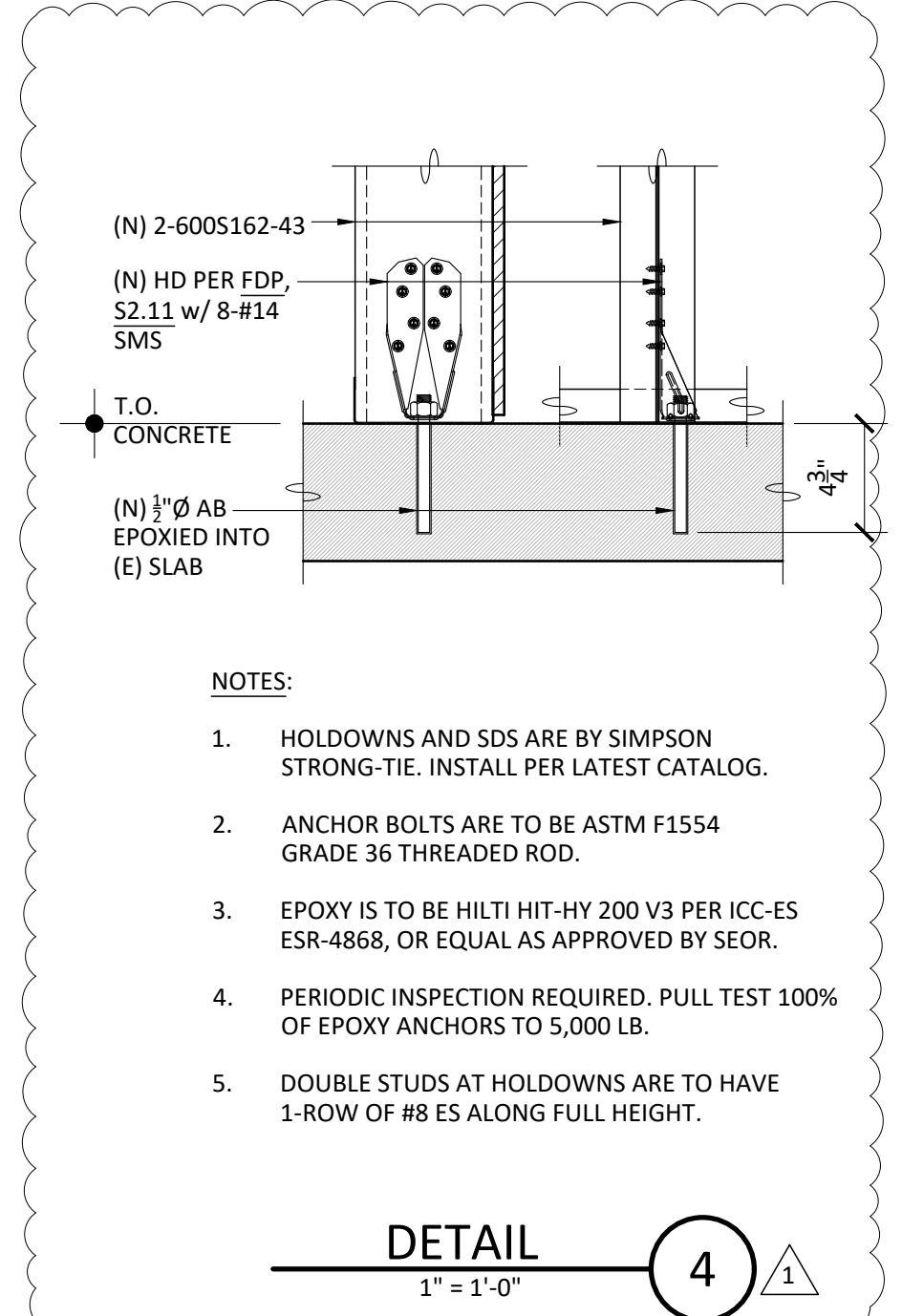
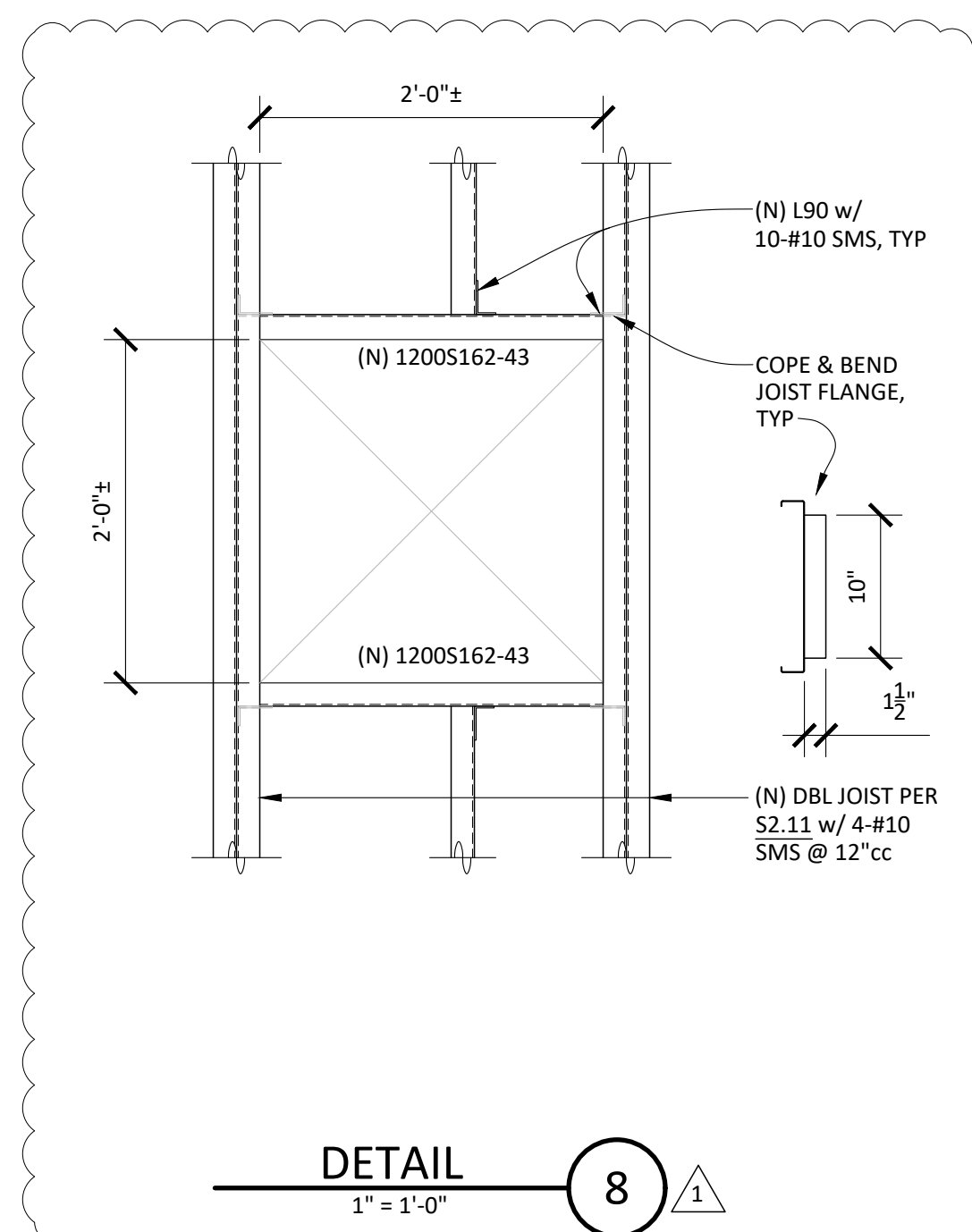
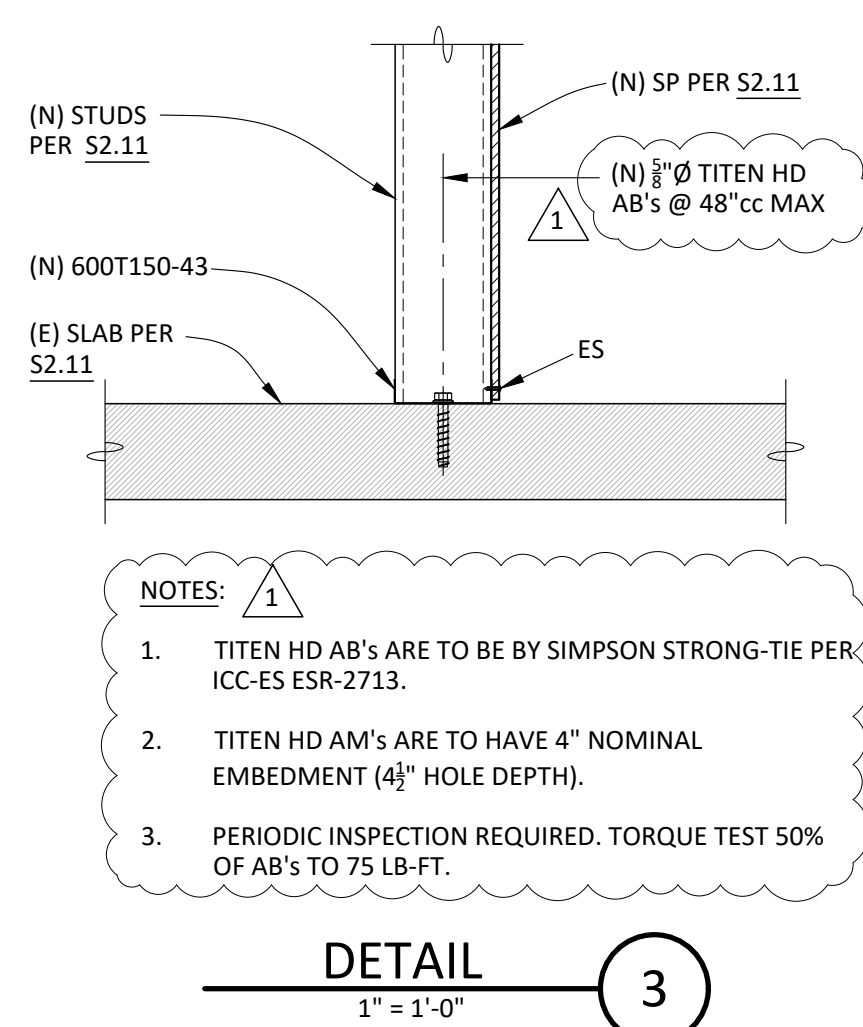
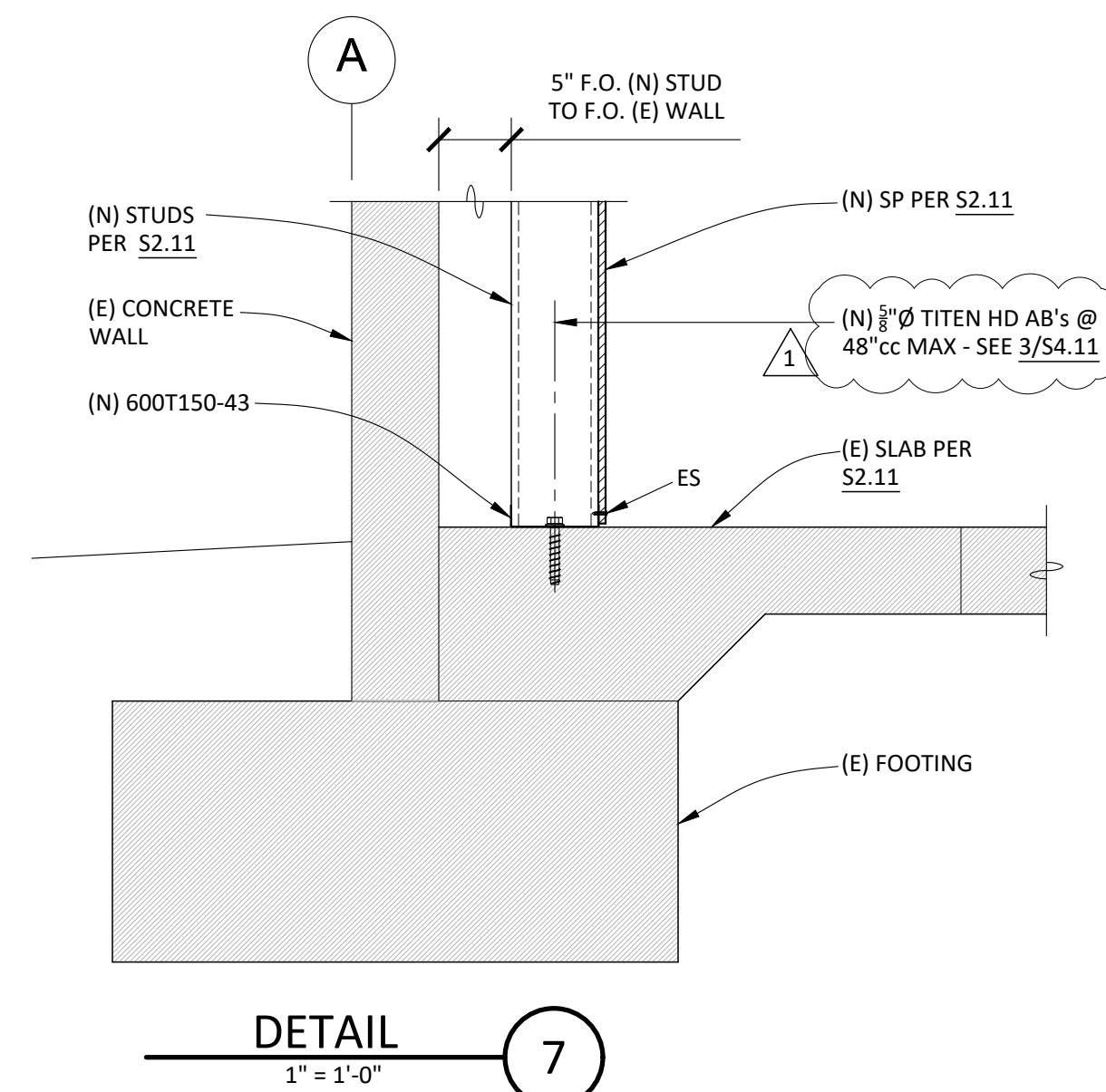
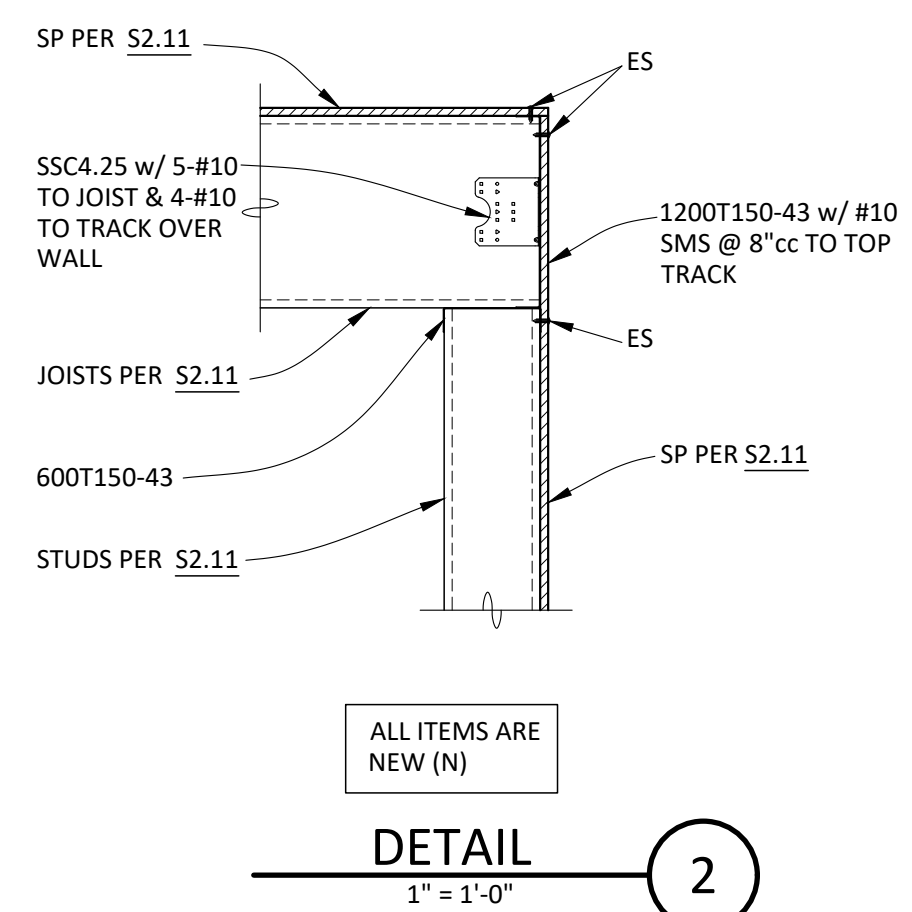
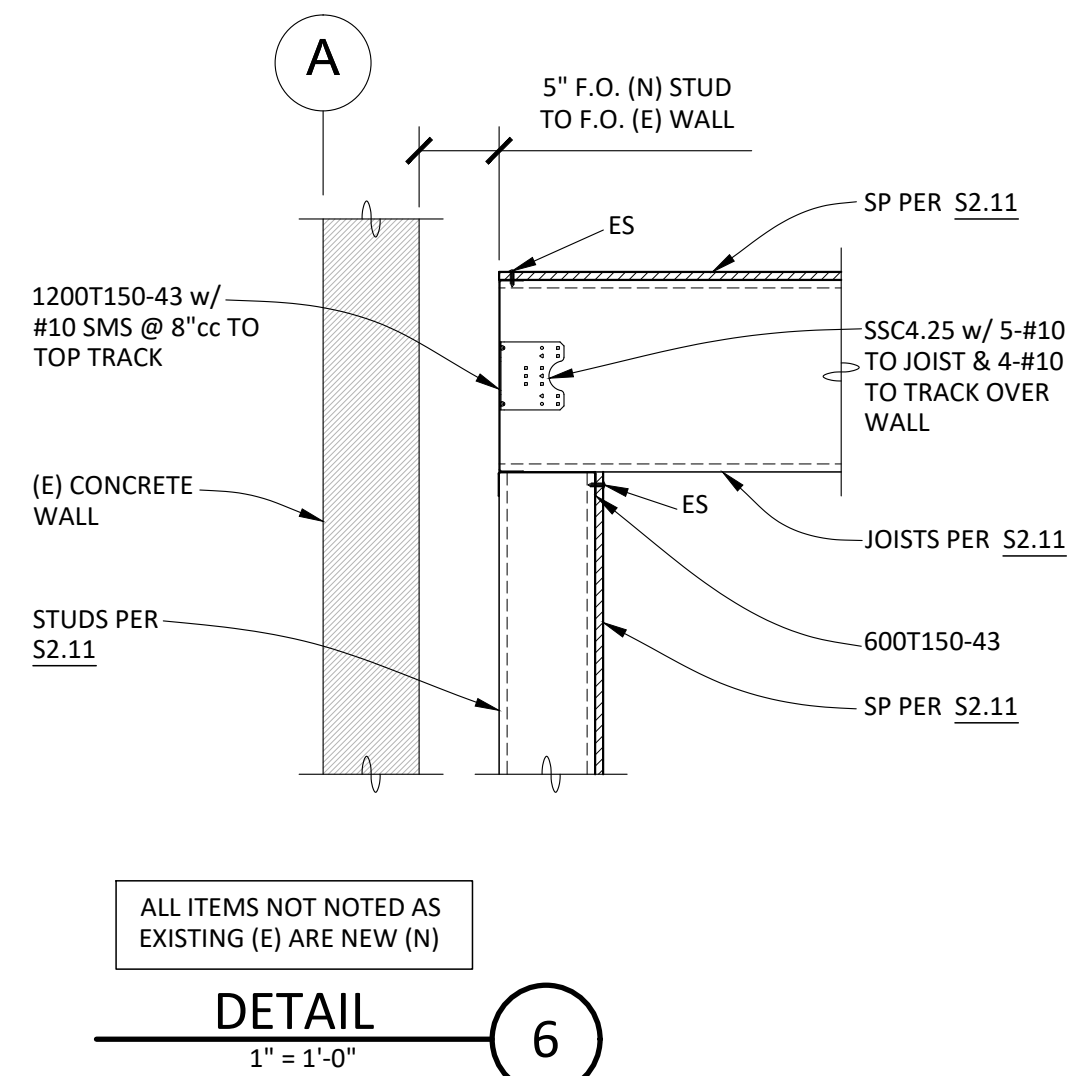
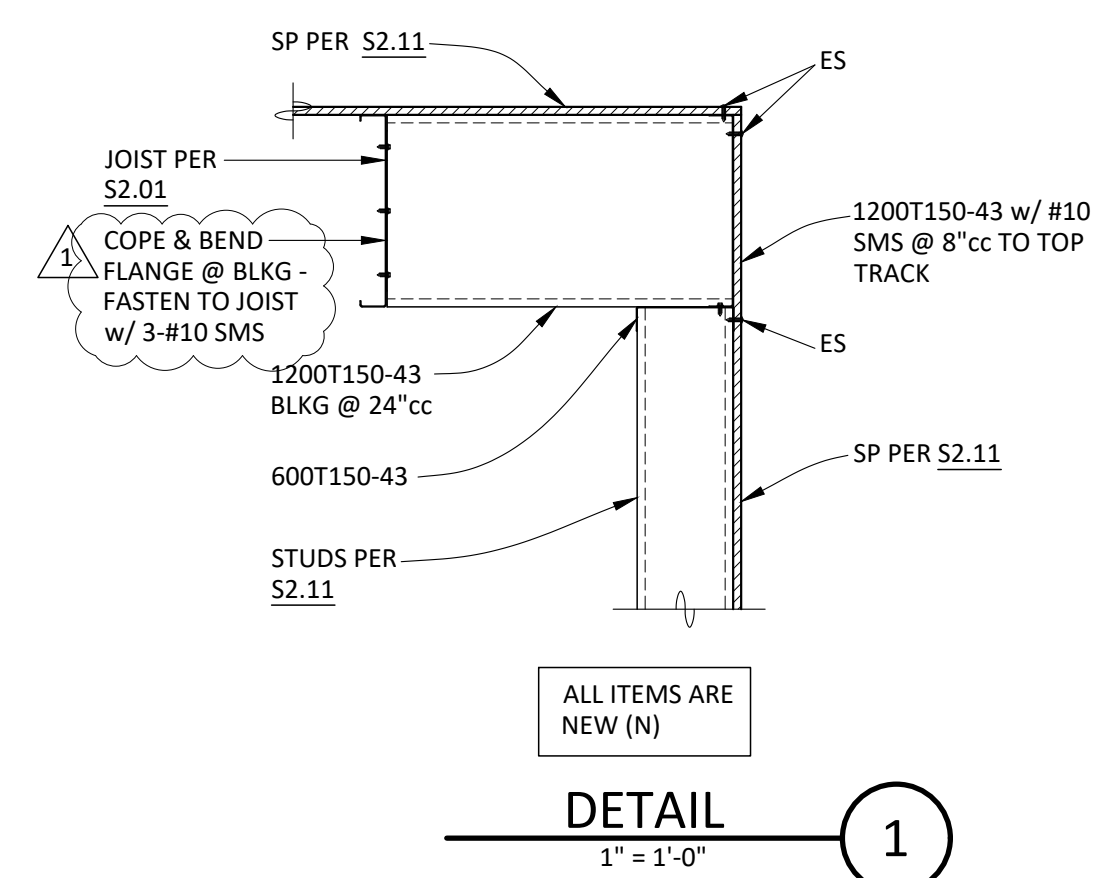
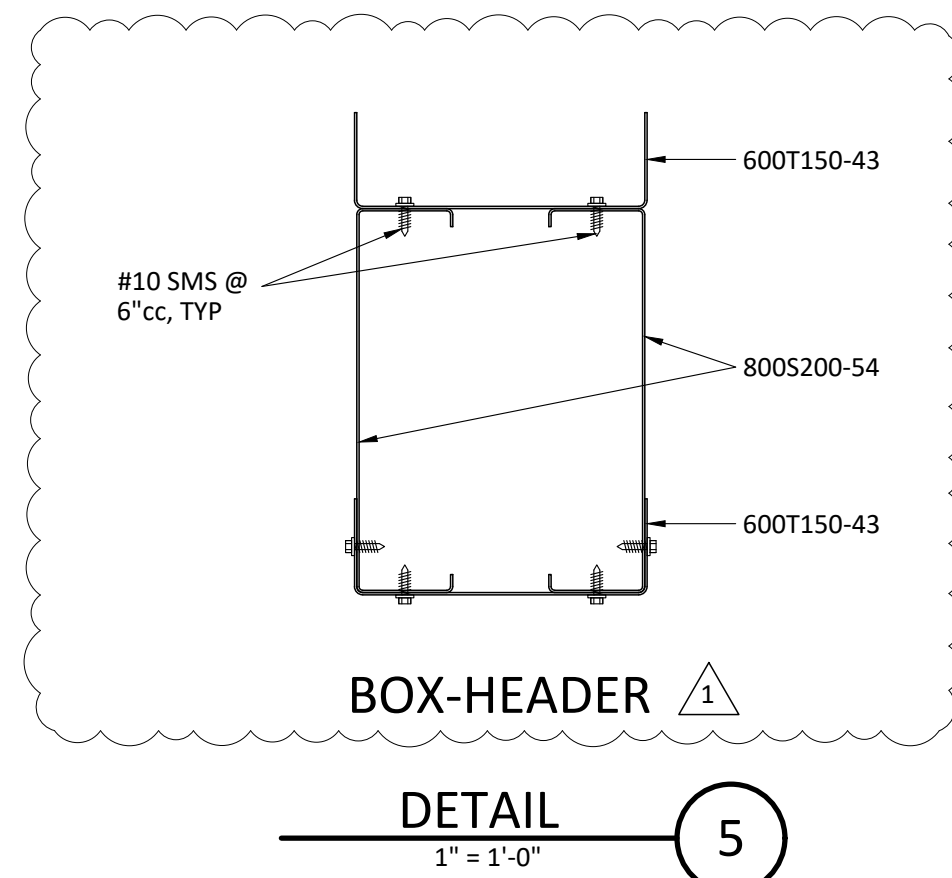
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**RW CONSULTING
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1/19/2024

FACILITY:

LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:

WAREHOUSE IT OFFICE ADDITION

SHEET NAME:

DETAILS

CONSTRUCTION DOCUMENTS

DATE: 10/29/2024	CLIENT PROJ NO: 3431006-000
SHEET:	

S4.11

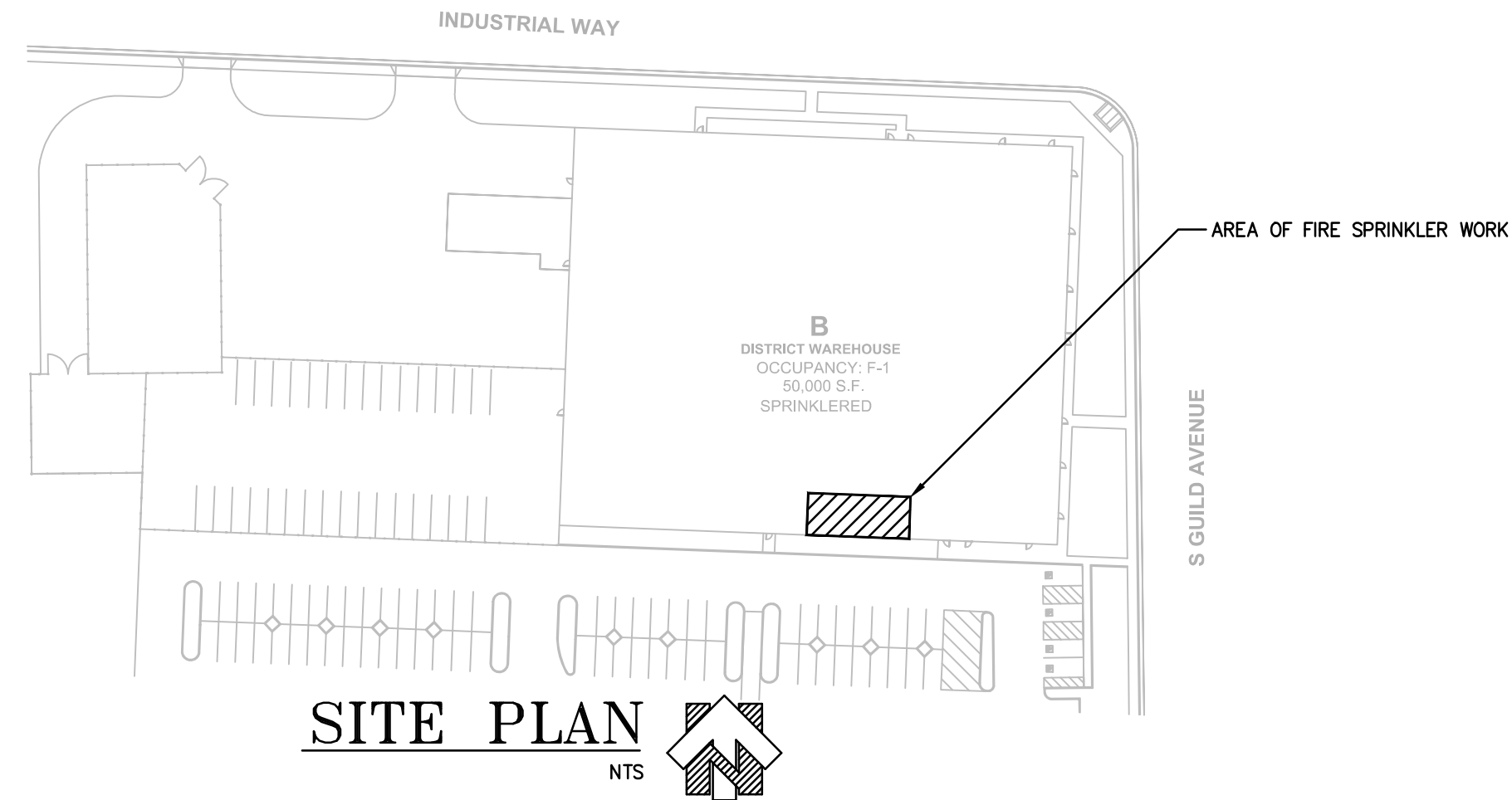
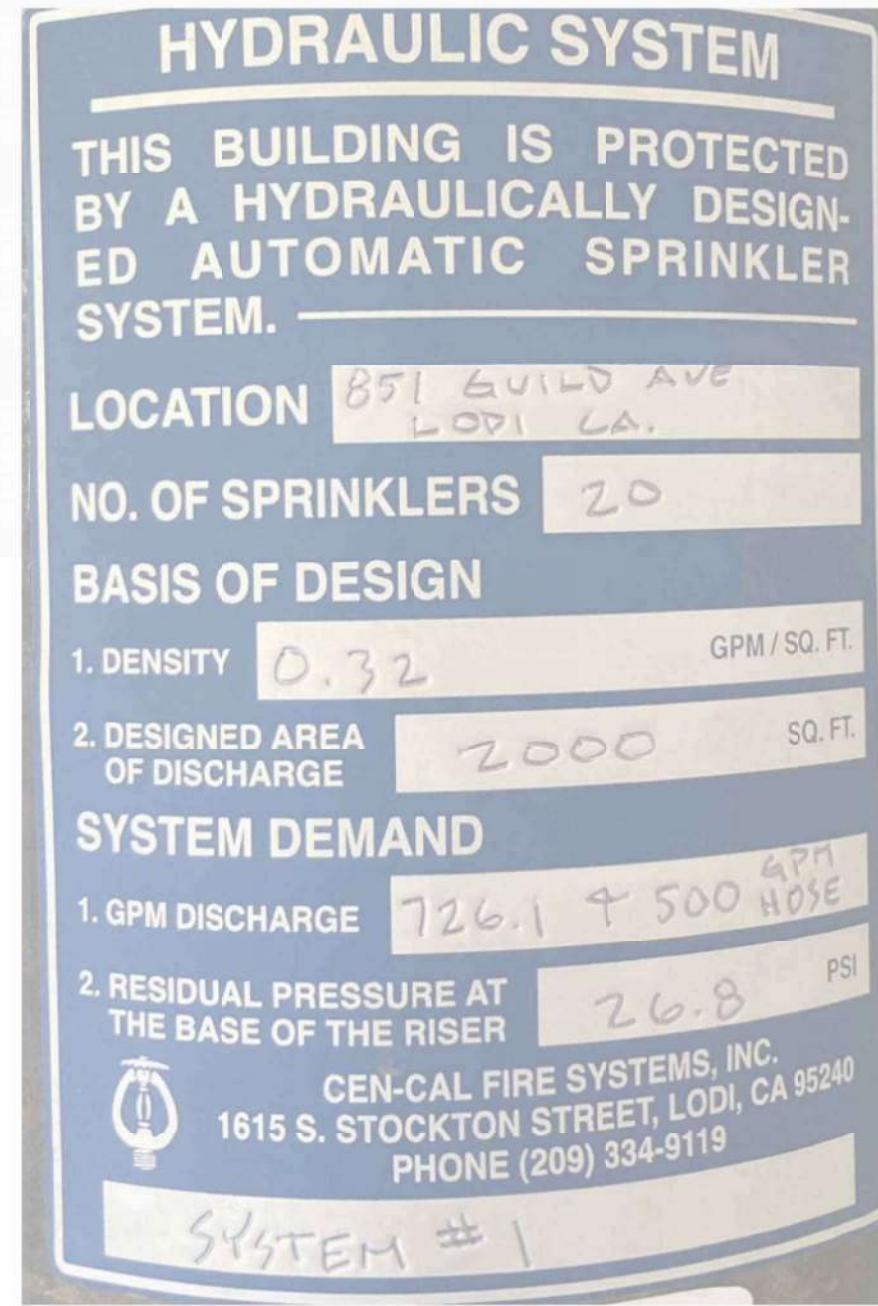
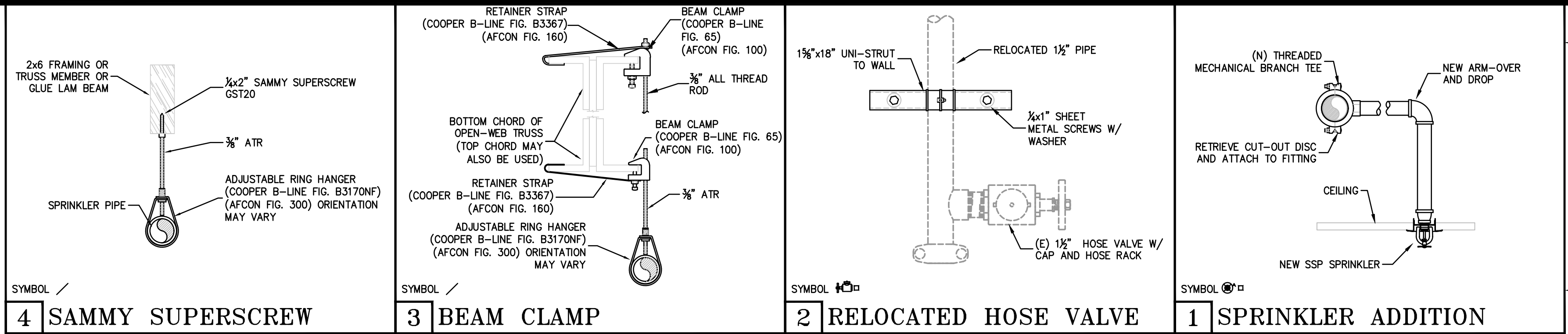
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FIRE SPRINKLER NOTES & SYMBOLS

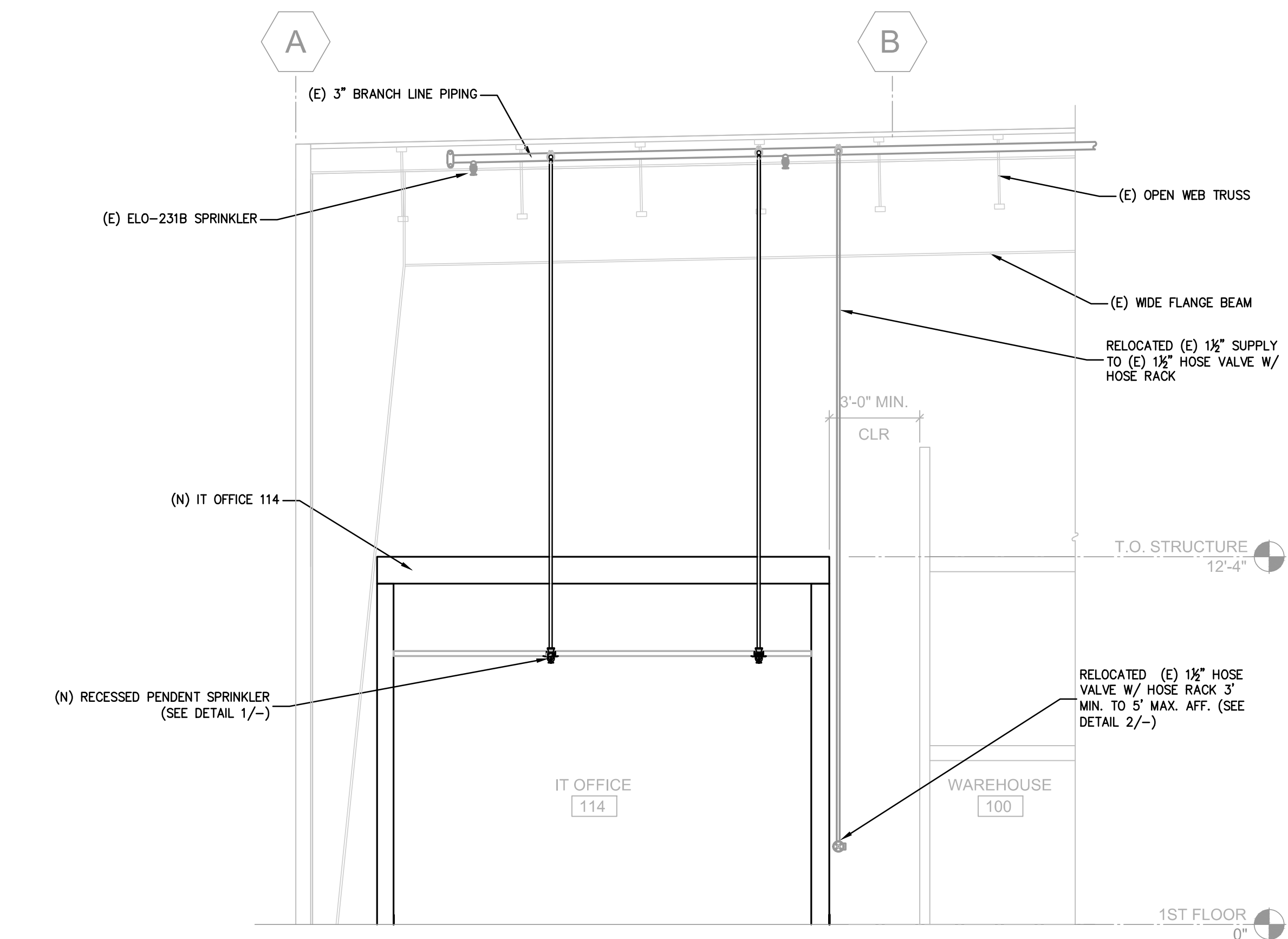
- ALL MATERIAL AND METHODS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13, 2022 EDITION AND THE Lodi FIRE DEPARTMENT.
- ALL FIRE RATED PENETRATIONS SHALL BE FIRE STOPPED USING AN APPROVED AND EQUALLY RATED MATERIAL.
- CONSTRUCTION = COMBUSTIBLE, UNOBSTRUCTED.
- OCCUPANCY = LIGHT HAZARD.
- SYSTEM TYPE = WET PIPE ONLY.
- ALL NEW PIPING IS BLACK STEEL EDDY-THREAD PIPE WITH THREADED OR MECHANICAL TEE FITTINGS.
- ALL GROOVED COUPLINGS SHALL BE RIGID TYPE UNLESS INDICATED OTHERWISE.
- EXACT SPRINKLER LOCATIONS SHALL BE FIELD VERIFIED.
- HANGER LOCATIONS ARE APPROXIMATE AND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13, 2022 CHAPTER 17.
- ELECTRICAL WIRING, FIRE ALARM INTERFACE, AND PAINTING IS BY OTHERS.
- THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL INTEGRITY OF THE BUILDING AND ITS ABILITY TO CARRY THE LOAD OF THE FIRE SPRINKLER SYSTEM.
- MAXIMUM SPRINKLER SPACING VARIES BY MODEL OF SPRINKLER. SEE SPRINKLER MANUFACTURER DATA SHEETS FOR DESIGN AND INSTALLATION REQUIREMENTS AND PROCEDURES.
- ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. PLANS ARE SCHEMATIC IN DESIGN FOR CONCEPT ONLY.
 - NFPA - 13, 2022
 - CALIFORNIA FIRE CODE, 2022
 - CALIFORNIA BUILDING CODE-2022
 - CALIFORNIA MECHANICAL CODE - 2022
 - CALIFORNIA PLUMBING CODE - 2022
 - CALIFORNIA ELECTRICAL CODE - 2022
- THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING. IF AWARDED THE CONTRACT, THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS IN DETAIL AND COORDINATE THE WORK WITH EXISTING BUILDING SYSTEMS AND OTHER MECHANICAL TRADES.
- ANY DAMAGE TO NEW/EXISTING BUILDING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS THAT OCCURS DURING THE WORK SHALL BE RESTORED TO THE ORIGINAL CONDITION WITH COST TO THE CONTRACTOR.
- COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND ELEMENTS AS INSTALLED, INCLUDING EXISTING BUILDING SYSTEMS:
 - EXACT LOCATION OF ALL EQUIPMENT.
 - ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.
 - EXACT SIZE AND ROUTING OF PIPING.
 - SEISMIC BRACING AND HANGING ASSEMBLIES.
- INSTALLATION OF THE SPRINKLER SYSTEMS SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS, INCLUDING WATER SUPPLY INFORMATION, HAVE BEEN APPROVED BY THE LOCAL FIRE AUTHORITY. SYSTEM TESTING MUST BE IN CONFORMANCE WITH NFPA 13 AND IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION.
- ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE LOCAL FIRE AUTHORITY. ANY FIRE WATCH WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- THE LOCATION OF FIRE SPRINKLERS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE DETAILED PLANS FOR APPROVAL PRIOR TO INSTALLATION.
- SPRINKLERS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. COORDINATE LAYOUT WITH CEILING OR SOFFITING, LIGHT FIXTURES, HVAC DIFFUSERS AND RETURNS, ETC. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED.
- WORKMANSHIP:
 - ALL WORK SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. PIPES, EQUIPMENT, ETC., TO BE INSTALLED LEVEL, SQUARED OR CENTERED, ETC., TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT IS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL WORK WITH OTHER TRADES.
 - THE ANNULAR SPACE BETWEEN PIPE SLEEVES AND THE THROUGH ALL RATED WALLS AND FLOORS SHALL BE FIRESTOPPED. FIRESTOPPING OF ALL PIPE PENETRATIONS SHALL COMPLY WITH U.L. REQUIREMENTS. MANUFACTURER PRE-APPROVED U.L. PENETRATION FOR PIPE MATERIAL AND SURFACE PENETRATED SHALL BE USED. PENETRATION DETAILS TO BE SHOWN ON SHOP DRAWINGS.
- BY OTHERS:
 - ELECTRICAL CONTRACTOR: ALL POWER AND ALARM WIRING, CONDUITS, DISCONNECTS, AND FINAL CONNECTIONS. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON PIPING AND NO RIGID ELECTRICAL CONNECTIONS SHALL BE MADE.
 - GENERAL CONTRACTOR: CUTTING, FRAMING, PATCHING AND FURRING.
- WARRANTY:
 - ALL MATERIALS AND EQUIPMENT INSTALLED SHALL BE GUARANTEED FREE FROM ALL FIRE PROTECTION, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT.
 - IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL ITEMS REQUIRED TO PROVIDE A COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, PERMITS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH IS TO BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED. THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE THE JOB.
 - THE FIRE SPRINKLER REQUIREMENTS DESCRIBED IN THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERCEDE CODE CONSTRAINTS AND OR REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

LEGEND

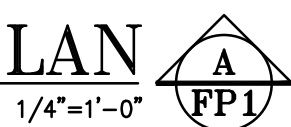
- EXISTING WALL
- NEW CEILING-HEIGHT WALLS
- EXISTING FIRE SPRINKLER PIPING
- NEW FIRE SPRINKLER PIPING
- WORK AREA
- (E) T-BAR CEILING
- (E) WAREHOUSE RACKING
- RELOCATED (E) HOSE VALVE
- (E) HOSE VALVE



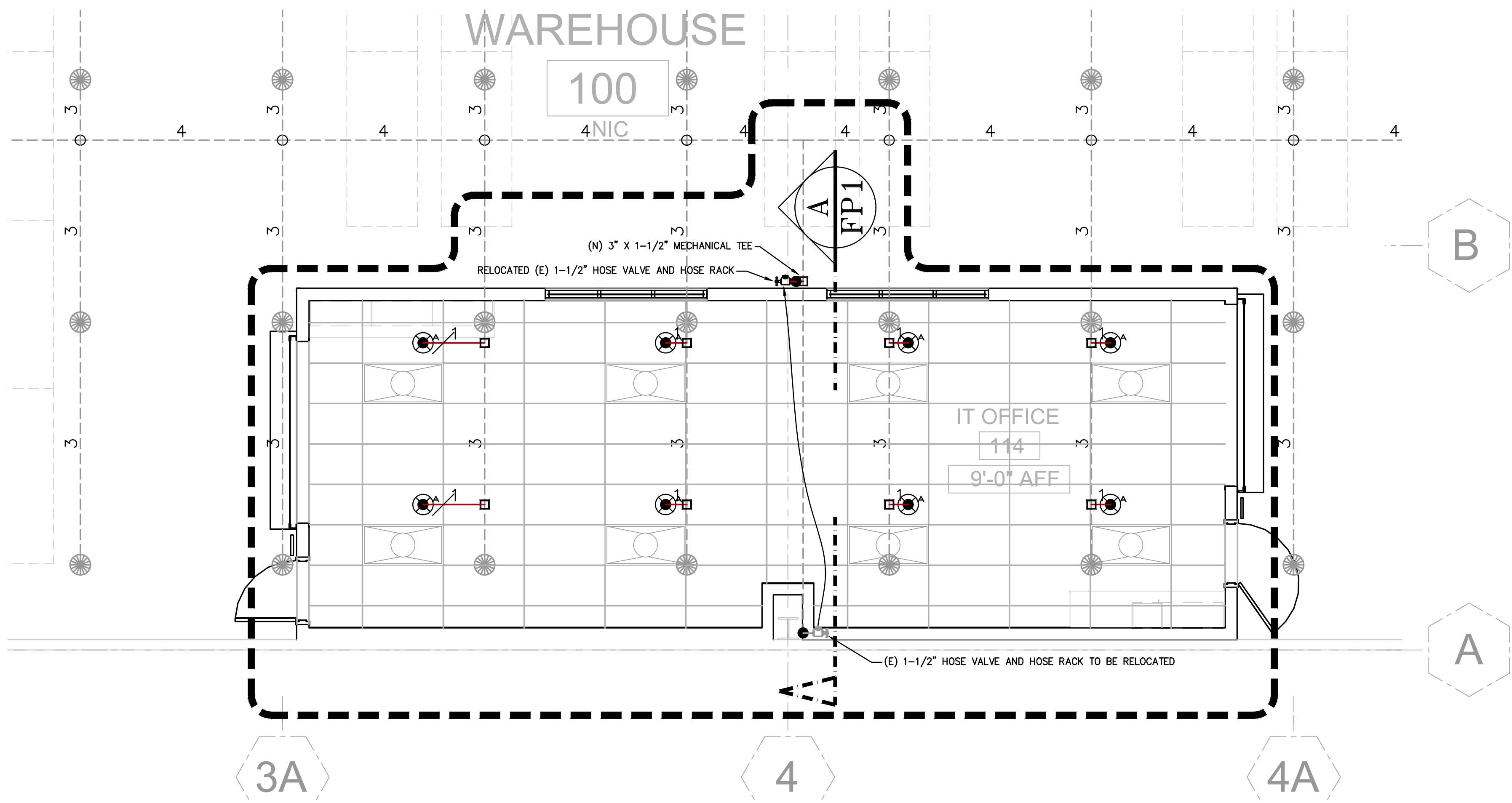
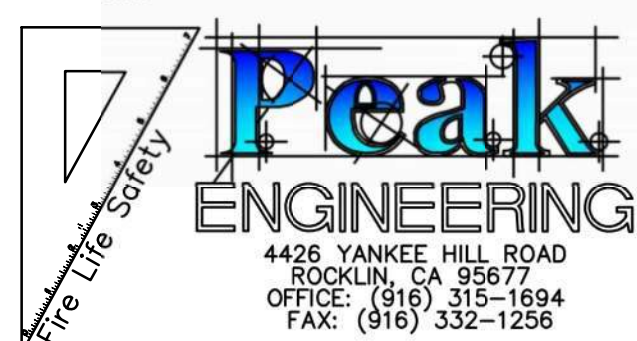
(E) HYDRAULIC SYSTEM INFO



FIRE SPRINKLER PLAN



CONSULTANT:



FIRE SPRINKLER PLAN



FIRE SPRINKLER LEGEND										NOTES
SYMBOL	SN #	SIZE	MAKE	MODEL	STYLE	FINISH	K-FACTOR	TEMP	RESPONSE	
●	TY3251	3/4	TYCO	ELO-231B	PENDENT	BRASS	11.2	286°	SR	(E) ELO SPRINKLERS AT ROOF
⊙	TY3231	1/2	TYCO	TY-FRB	RECESSED	GRM/CRM	5.6	155°	QR	(N) SSP SPRINKLERS TO BE ADDED
TOTAL NUMBER OF SPRINKLERS ON THIS SHEET										8

AGENCY APPROVAL:



HMC Architects

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ISSUE

DESCRIPTION DATE

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5734 Lonepine Boulevard, Rocklin, CA 95765
Office: (916) 626 5518 www.oefc.com



FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
FIRE SPRINKLER PLAN

CONSTRUCTION DOCUMENTS

DATE: 06/05/24 CLIENT PROJ NO:

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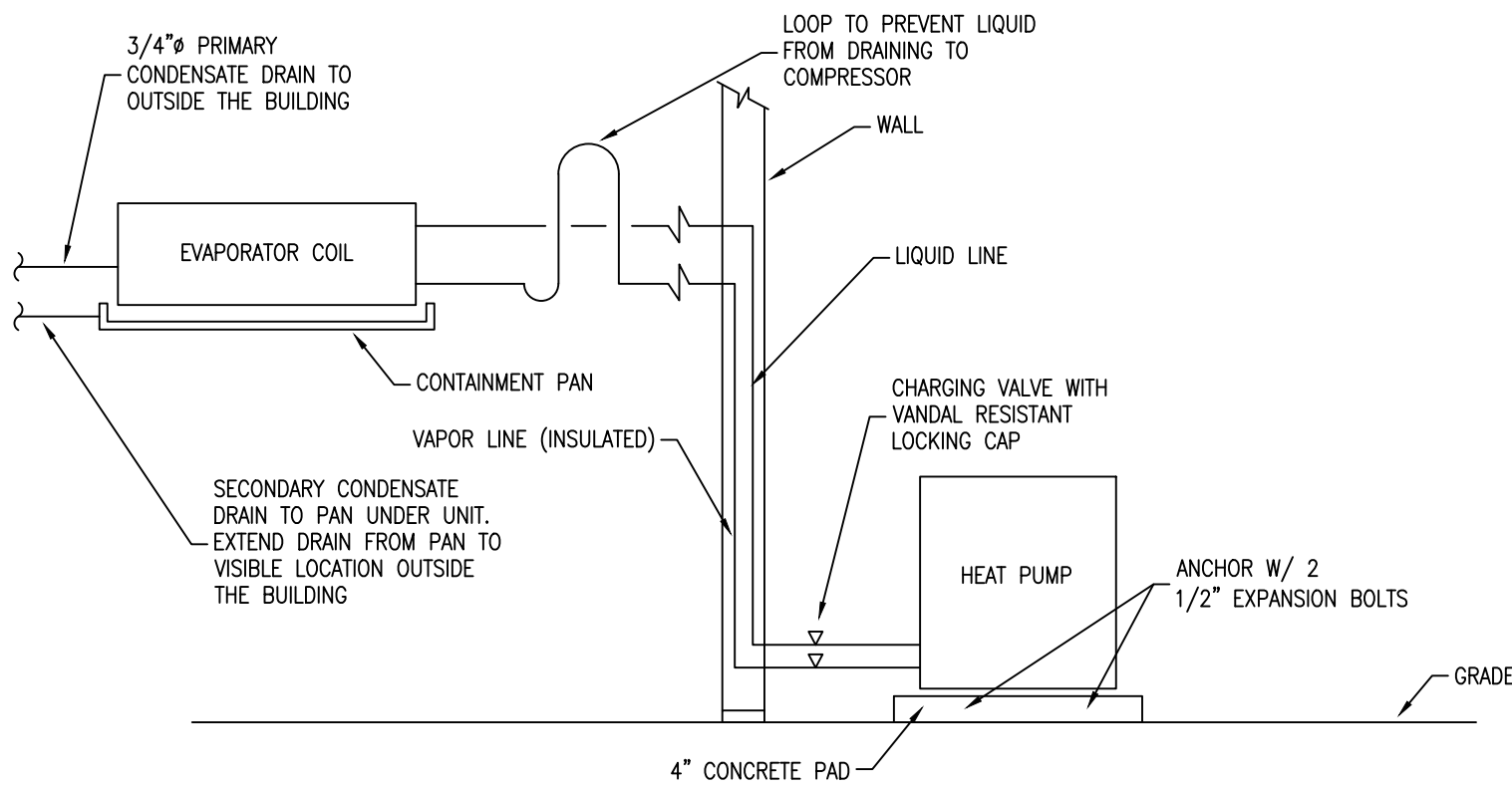
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MECHANICAL GENERAL NOTES

- 1) ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(IES) HAVING JURISDICTION: 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA FIRE CODE (CFC), 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA ELECTRICAL CODE (CEC), 2022 CALIFORNIA ENERGY CODE (CENC), 2022 CALIFORNIA GREEN BUILDING CODE (CGC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.
- 2) CONTRACTOR TO EXAMINE THE PROPOSED WORK SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS AFFECTING THE WORK SHOWN. CONTRACTOR(S) SHALL FIELD-VERIFY SITE CONDITIONS INCLUDING LOCATIONS AND SIZES OF EXISTING PIPING, VALVES, CLEANOUTS, WASTE MAINS, GAS METERS, ETC., AND BIDS SHALL BE BASED ON ACTUAL FIELD CONDITIONS. NO ADDITIONAL ALLOWANCE WILL BE GRANTED DUE TO LACK OF KNOWLEDGE OF SITE CONDITIONS. ACCEPT SOLE AND COMPLETE RESPONSIBILITY FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
- 3) DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, DUCTWORK, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE IN ORDER TO ACHIEVE A NEAT INSTALLATION WHILE STILL WORKING AROUND ANY OBSTRUCTIONS. INSPECT SITE CONDITIONS AFFECTING THE WORK AND PROVIDE FITTINGS AND ACCESSORIES AS REQUIRED TO MEET CONDITIONS WHETHER SHOWN OR NOT.
- 4) IT IS NOT THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL INCIDENTALS REQUIRED TO PROVIDE COMPLETE AND FULLY-OPERATIONAL SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED OR NOT. ENGINEER WILL PROVIDE INTERPRETATIONS UPON REQUEST.
- 5) DEFINITIONS:
a. WORK: LABOR AND MATERIALS OF THE CONTRACTOR AND/OR SUBCONTRACTOR.
b. FURNISH: OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOBSITE IN NEW CONDITION AND GUARANTEE.
c. PROVIDE: FURNISH AND INSTALL.
d. CONNECT: BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENTS INCLUDING NECESSARY PIPE FITTINGS, DUCTWORK, TRANSITIONS, ETC.
e. CONCEALED: HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHIFTS ABOVE CEILING, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES, OR BURIED.
f. EXPOSED: NOT INSTALLED UNDERGROUND OR CONCEALED AS DEFINED ABOVE.
g. PERFORMANCE: CONTRACTOR SHALL PERFORM ALL WORK SPECIFIED, INDICATED, AND REQUIRED UNLESS OTHERWISE NOTED, INCLUDING FINAL CONNECTIONS, IN A WORKMANLIKE MANNER USING WORKERS SKILLED AND EXPERIENCED IN THE TRADE. PIPES, FITTINGS, EQUIPMENT, GRILLES, REGISTERS, ETC. TO BE INSTALLED LEVEL, SQUARE, OR CENTERED, ETC. TO GIVE A NEAT APPEARANCE.
h. FULL FUNCTION: PROVIDE ALL MINOR ITEMS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
- 6) CONTRACTOR SHALL CONFIRM ALL SITE VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT. REIMBURSE ELECTRICAL CONTRACTOR, AT NO CHARGE, TO CLIENT, FOR ELECTRICAL CONTRACTOR'S COST INCURRED DUE TO SUBSTITUTION OF MECHANICAL EQUIPMENT HAVING ELECTRICAL REQUIREMENTS DIFFERING FROM SITE CONDITIONS.
- 7) CONTRACTOR SHALL PROVIDE THE OWNER WITH COPIES OF OPERATION, MAINTENANCE, AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING AND MECHANICAL EQUIPMENT.
- 8) CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
- 9) CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
- 10) COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND ELECTRICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
- 11) CUTTING AND PATCHING: CUT AND PATCH AS REQUIRED. CUT OR WELD STRUCTURAL MEMBERS ONLY WITH APPROVAL OF A STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
- 12) SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.
- 13) COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
- 14) RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
- 15) GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR MINIMUM FROM DATE OF FILING NOTICE OF COMPLETION.
- 16) PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
- 17) ADJUSTMENTS: MAKE MINOR ADJUSTMENTS TO WORK WHERE REQUESTED BY OWNER. WHEN SUCH ADJUSTMENTS ARE NECESSARY TO PROPER OPERATION AND WITHIN THE INTENT OF THE CONTRACT.
- 18) MATERIALS AND EQUIPMENT: PROVIDE NEW, UL-LISTED, COMMERCIAL-GRADE MATERIALS, DEVICES, EQUIPMENT, AND FIXTURES SUITABLE FOR THE ENVIRONMENT WHERE INSTALLED. REUSE EXISTING ONLY WHEN COMPLIANT WITH THE CONTRACT DOCUMENTS, IN GOOD CONDITION, AND APPROVED BY THE ENGINEER.
- 19) INSTALLATION: INSTALL ALL MATERIALS, EQUIPMENT, AND SYSTEMS IN FULL ACCORD WITH MANUFACTURER'S INSTRUCTIONS, CLEARANCES, ETC.
- 20) LAYOUT: INSTALL ALL PIPING AND DUCTWORK TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUN ALL LINES PARALLEL WITH BUILDING CONSTRUCTION AS MUCH AS POSSIBLE. MAINTAIN HEADROOM, EQUIPMENT CLEARANCE, AND GRADIENT WHERE REQUIRED. ALLOW FOR EXPANSION & CONTRACTION.
- 21) ACCESS DOORS: PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, DAMPERS, CONTROLS, DEVICES, AND OTHER ITEMS REQUIRING INSPECTION OR MAINTENANCE.
- 22) START-UP: THOROUGHLY TEST/DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS AND EQUIPMENT MODIFIED, FURNISHED OR INSTALLED UNDER THIS CONTRACT.
- 23) WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.
- 24) PATCHING & PAINTING: RESTORE ANY DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES CLEAN, ADJUST, CLEAN, REPAIR, AND/OR REPLACE ANY ITEMS DAMAGED BY THE WORK. RESTORE WALL AND ROOF PENETRATIONS TO MATCH SURROUNDING WALL OR ROOF, RESPECTIVELY.
- 25) AIR BALANCE: PROVIDE SERVICES NECESSARY TO VERIFY AIR QUANTITIES AND BALANCE FOR ESTABLISHED QUANTITIES AND UNIFORM TEMPERATURE IN THE SPACES SERVED. ADJUST ALL DAMPERS AND ELEMENTS IN GRILLES AND DIFFUSERS FOR PROPER AIR DISTRIBUTION AND TO MINIMIZE DRAFTS. COMPLY WITH SMACNA MANUAL FOR THE BALANCING AND ADJUSTMENT OF AIR DISTRIBUTION SYSTEMS.
- 26) DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARD.
- 27) MATERIALS EXPOSED WITHIN DUCTS OR PLenums SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE DEVELOPED INDEX NOT TO EXCEED 50, WHERE TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ASTM E84 OR UL 723.
- 28) ALL SUPPLY BRANCH DUCTS SHALL HAVE MANUAL VOLUME BALANCING DAMPERS WITH ACCESSIBLE LOCKING TYPE QUADRANT
- 29) PROVIDE CONICAL FITTINGS FOR ALL ROUND TO RECTANGULAR DUCTWORK CONNECTIONS
- 30) PROVIDE TURNING VANES FOR RECTANGULAR DUCTWORK AT ALL HARD 90 DEGREE ELBOWS
- 31) DUCTWORK SHALL MEET UL 181, CLASS I AND NFPA 90A AND 90B. DUCT SHALL BE INSTALLED STRAIGHT AND SUPPORT SPACING SHALL BE IN STRICT ACCORDANCE WITH "SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE". FLEXIBLE DUCTWORK TO BE 3' MAX LENGTH, AND SHALL BE EXTENDED TO THE FULLEST POSSIBLE LENGTH, IN ORDER TO MINIMIZE PRESSURE DROP IN THE DUCT. EXCESS DUCT LENGTHS SHALL BE SHORTENED TO PREVENT UNNECESSARY CHANGES IN DIRECTIONS. WHERE ABRUPT CHANGES IN DIRECTION ARE UNAVOIDABLE, USE ADJUSTABLE SHORT RADIUS SHEET METAL ELBOWS TO MAKE DIRECTION CHANGES. CONNECTIONS AT METAL DUCTS OR COLLARS SHALL BE MADE BY DROW BANDS AND PRESSURE-SENSITIVE TAPE WITH THE DROW BANDS TIGHTENED AS RECOMMENDED BY THE MANUFACTURER WITH AN ADJUSTABLE TENSIONING TOOL. USING PRESSURE-SENSITIVE TAPE ALONE WITHOUT DROW BANDS IS NOT ACCEPTABLE. ALL PRESSURE-SENSITIVE TAPES AND MASTICS USED SHALL COMPLY WITH UL 181.
- 32) HVAC EQUIPMENT SHALL NOT BE OPERATED DURING CONSTRUCTION WITHOUT A FILTER INSTALLED TO PROTECT THE EVAPORATOR COIL. AFTER ALL CONSTRUCTION IS COMPLETED, ALL CONSTRUCTION FILTERS SHALL BE REMOVED AND NEW FILTERS SHALL BE INSTALLED.
- 33) HVAC EQUIPMENT SHALL BE CERTIFIED BY THE MANUFACTURER FOR COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS.

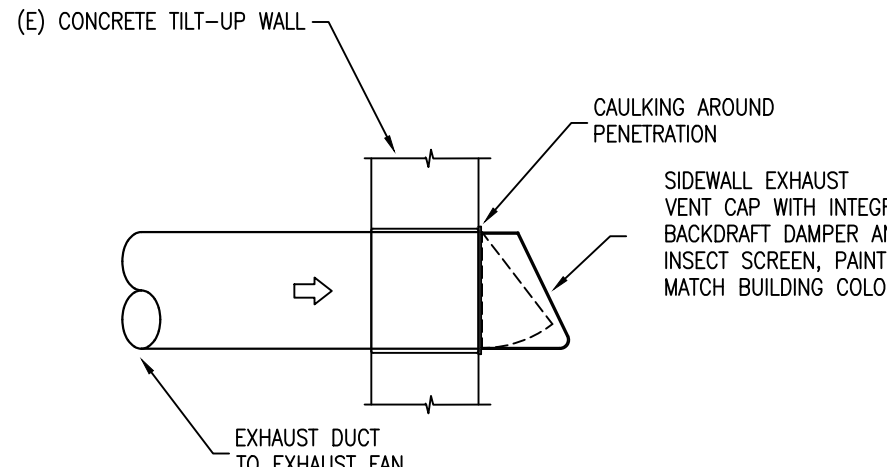
MECHANICAL CALGREEN NOTES

- 5.504.1 THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION. THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.
- 5.504.3 AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
- 5.504.5.3 IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MERV OF 13.
- 5.506.1 FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF CENC 120.1, CHAPTER 4 OF CCR, TITLE 8 OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT.
- 5.506.2 BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH CENC 120.1.
- 5.508.1 INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2
- 5.508.1.1 CHLOROFLUOROCARBONS (CFC'S). INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFC'S.
- 5.508.1.2 HALONS. INSTALL FIRE SUPPRESSION EQUIPMENT THAT DOES NOT CONTAIN HALONS.
- 5.410.4.5 PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION.
- 5.410.4.5 TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1.
- 5.410.4.3.1 BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHOULD BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY NATIONAL STANDARDS LISTED IN SECTION 5.410.4.3.1.



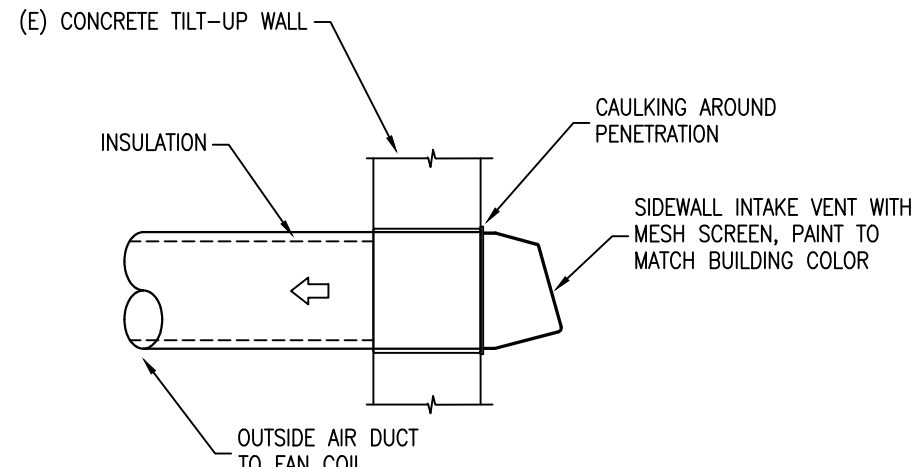
TYPICAL SPLIT HEAT PUMP SCHEMATIC

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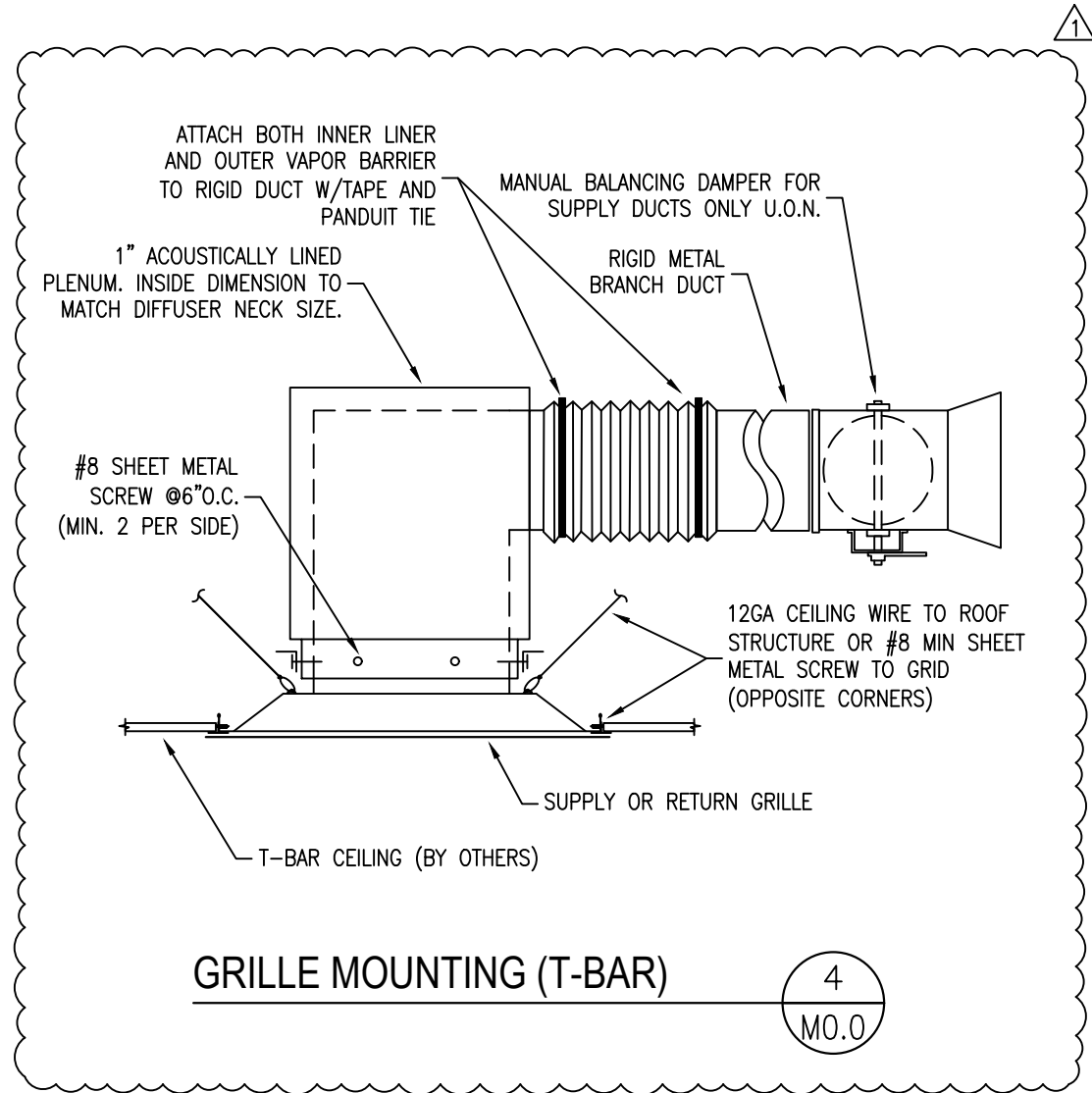
SIDEWALL EXHAUST VENT

2
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SIDEWALL INTAKE VENT

3
MO.0



GRILLE MOUNTING (T-BAR)

4
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RIGID DUCT SCHEDULE			
TYPE	DUCT SIZE (IN.)	MINIMUM THICKNESS (IN.)	GALVANIZED GAUGE NO.
ROUND	≤14	0.0157	28
	16-18	0.0187	26
	≥20	0.0236	24
RECTANGULAR	≤14	0.0157	28
	>14	0.0187	26

AIR TERMINAL DEVICE SCHEDULE

TAG	TYPE	MANU.	MODEL	MOUNTING LOCATION	FRAME	MODULE SIZE	NECK SIZE	REMARKS
CD-1	CEILING DIFFUSER	TITUS	MCD	CEILING	BORDER TYPE 3	24"x24"	SEE PLANS	LAY-IN, STEEL DIFFUSER WITH 4-WAY DEFLECTION
CR-1	CEILING RETURN	TITUS	50F	CEILING	BORDER TYPE 3	24"x24"	SEE PLANS	LAY-IN, ALUMINUM EGGRATE GRILLE

EXHAUST FAN SCHEDULE

TAG	MANU.	MODEL	MOUNTING TYPE	SERVES	CFM	E.S.P.	RPM	ELECTRICAL				SONES	WEIGHT (LBS.)	REMARKS
								V-φ-Hz	WATTS	AMPS	BHP	HP		
EF-1	PANASONIC	FV-115WK2	IN T-BAR CEILING	RESTROOM	110	0.1"	625	115-1-60	6.9	0.24	-	-	<0.3	10.1

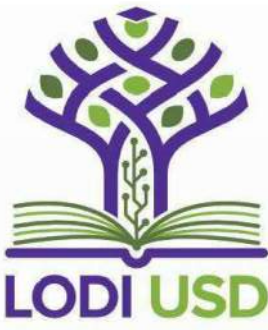
MINI-SPLIT HEAT PUMP SCHEDULE

OUTDOOR UNIT																INDOOR UNIT													SEER (EER)	HSPF	REMARKS	
TAG	MANU.	MODEL	LOCATION	TONS	COOLING			HEATING MBH			ELECTRICAL				WEIGHT (LBS.)	TAG	TYPE	MANU.	MODEL	LOCATION	SERVES	TONS	CFM	ESP	FAN FLA	MIN. OSA	WEIGHT (LBS.)					
					TOTAL MBH	SENS. MBH	EDR	EWB	AMB	Ø47T	Ø17T	V-φ-Hz	COND. FLA	COMP. FLA	MCA	MOCP																
HP-1	MITSUBISHI	TRU2A0361KA70BA	OUTSIDE ON CONCRETE PAD	3.0	36.0	27.7	80F	67F	95F	38.0	24.0	208-1-60	1.0	8.0	25.0	31	214	FC-1	DUCTED	MITSUBISHI	TPVAD040361AA70A	ABOVE OFFICE ON JOIST FRAMING	IT OFFICE	3.0	1125	0.5"	4.40	110	172	19.3 (9.8)	9.5	1, 2, 3, 4, 5, 6
1)	DUCTED MINI-SPLIT HEAT PUMP WITH MULTI-POSITION AIR HANDLER, HIGHLY EFFICIENT TOTALLY ENCLOSED ECM INDOOR MOTOR, VARIABLE SPEED INVERTER DRIVEN COMPRESSOR										3)	PROVIDE WITH WIRED, ENERGY CODE COMPLIANT CONTROLLER CAPABLE OF AUTOMATIC SCHEDULING										5)	INDOOR UNIT IS POWERED BY OUTDOOR UNIT, ENSURE ELECTRICAL CONTRACTOR PROVIDES WIRING PER MANUFACTURER REQUIREMENTS									
2)	PROVIDE FILTER RACK WITH 2" THROWAWAY FILTERS & PROVIDE 2" PLATED MERV 13 FILTERS UPON COMPLETION										4)	PROVIDE 5/8" SUCTION AND 3/8" LIQUID LINE SETS PER MANUFACTURER										6)	PROVIDE UNIT WITH SECONDARY CONDENSATE OVERFLOW PROTECTION PER CPC 814.2									

MECHANICAL LEGEND

- POC
- GAS POC
- COLD WATER POC
- CONDENSATE POC
- POWER AND CONTROL WIRING
- SWITCH
- THERMOSTAT
- CO2 SENSOR
- FLEX DUCT
- DAMPER
- DUCT REDUCER
- CEILING DIFFUSER - TBAR
- CEILING DIFFUSER - HAROLD
- SIDE/SPIRAL DIFFUSER/RETURN
- SLOT DIFFUSER/RETURN
- CEILING RETURN - TBAR
- CEILING RETURN - HAROLD
- EXHAUST GRILLE - TBAR
- EXHAUST GRILLE - HAROLD
- CEILING FIRE-SMOKE DAMPER
- FIRE-SMOKE DAMPER
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- DAMETER
- AIR CONDITIONING
- ON CENTER
- CUBIC FEET PER MINUTE
- FROM ABOVE, TO BELOW
- FROM BELOW, TO ABOVE
- FIRE DAMPER
- FIRE SMOKE DAMPER
- GAUGE
- GALLONS PER MINUTE
- HORSEPOWER
- BRAKE HORSEPOWER
- MAX / MIN
- MAXIMUM / MINIMUM
- NOT TO SCALE
- OUTSIDE AIR
- RETURN AIR
- SUPPLY AIR
- SHEET METAL SCREW
- TYPICAL
- UNLESS OTHERWISE NOTED

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FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
MECHANICAL SCHEDULES,
DETAILS, & GEN. NOTES

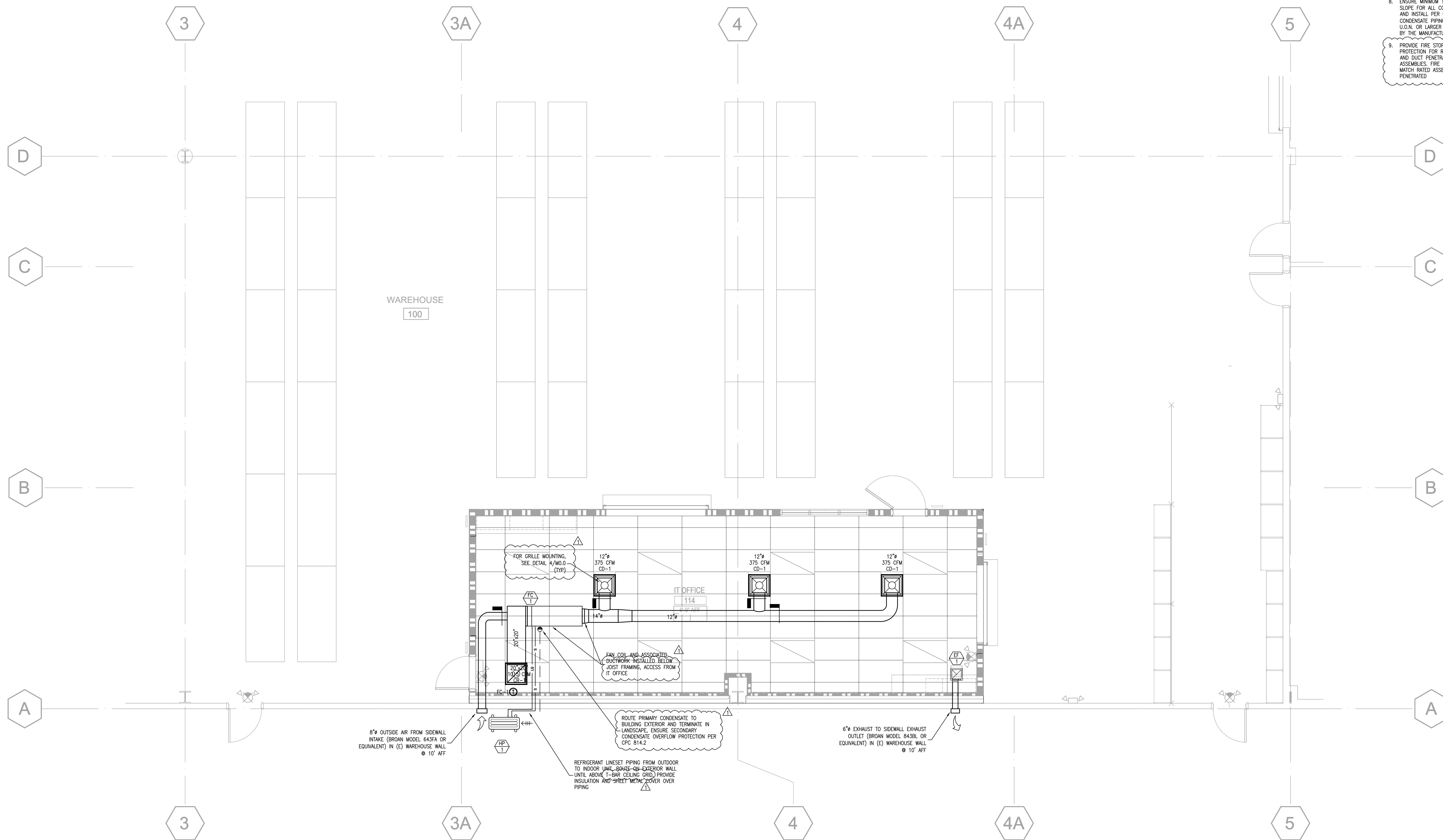
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1. (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
2. ALL EQUIPMENT/CONTROLS AND DUCTWORK/FITTINGS SHOWN ARE (N) U.O.N.
3. HVAC EQUIPMENT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA OR SPACE SERVED BY THE EQUIPMENT PER CMC 303.6
4. THERMOSTATS TO BE INSTALLED AT 48" A.F.F. (TOP OF THERMOSTAT). DO NOT INSTALL THERMOSTATS OVER CASEWORK OR SHELVING OVER 24" IN DEPTH AND 34" IN HEIGHT. COORDINATE EXACT LOCATION WITH OWNER.

5. ALL DUCTWORK PENETRATIONS TO THE EXTERIOR OF BUILDING SHALL BE CORROSION-RESISTANT AND PROTECTED FROM INTRUSION BY WATER, INSECTS, ETC.
6. DUCTWORK SHALL BE RIGID GALVANIZED METAL PER CMC 603.3 AND 603.4. SEE RIGID DUCTWORK CONSTRUCTION SCHEDULE FOR GAUGE. CONDITIONED AIR AND OUTSIDE AIR DUCTWORK SHALL BE INSULATED WITH MINIMUM R-8. FLEX DUCT CONNECTORS PER CMC 603.5 SHALL BE PERMITTED FROM RIGID DUCTWORK TO A TERMINAL DEVICE AND SHALL BE <5 FT IN LENGTH PER CMC 603.4.1
7. SPLIT SYSTEM HVAC UNITS AND HORIZONTAL DISCHARGE PACKAGED HVAC UNITS SHALL BE INSTALLED WITH FLEX CONNECTORS FROM UNIT TO DUCTWORK

9. PROVIDE FIRE STOPPING ASSEMBLY PROTECTION FOR REFRIGERANT PIPE AND DUCT PENETRATIONS OF RATED ASSEMBLIES. FIRE STOP RATING SHALL MATCH RATED ASSEMBLY BEING PENETRATED

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PROJECT:

WAREHOUSE IT OFFICE ADDITION

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MECHANICAL IMPROVEMENT FLOOR PLAN

CONSTRUCTION DOCUMENTS

DATE: 06/05/24

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NORTH

A MECHANICAL - IMPROVEMENT FLOOR PLAN
SCALE: 1/4"=1'-0"

M1.1

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PANEL 'L3' SCHEDULE

Panel Name:		L3				Bus Rating:		100A				
Voltage & Phase:		120/208Y - 3Ø - 4W				AIC Rating:		22KAIC				
Mounting:		Recessed				Main Type:		Circuit Breaker				
Enclosure Rating:		NEMA 1				MCB Rating:		60A				
Code	VA	Description			BRK	Ckt	PHASE	Ckt	BRK	Description	VA	Code
L	376	Lighting - IT Office			20/1	1	A	2	30/2	HVAC unit - HP-1/FC-1	1394	M
R	1080	Receptacles			20/1	3	B	4	-		1394	M
R	1080	Receptacles			20/1	5	C	6	15/3	Roll-up door motor (1 HP)	552	M
R	360	Receptacles			20/1	7	A	8	-		552	M
R	720	Receptacles			20/1	9	B	10	-		552	M
R	1260	Receptacles			20/1	11	C	12	15/3	Roll-up door motor (1 HP)	552	M
R	360	Receptacles			20/1	13	A	14	-		552	M
R	540	Receptacles			20/1	15	B	16	-		552	M
O	1000	IDF			20/1	17	C	18	15/2	Laser Engraver	600	O
						19	A	20	-		600	O
						21	B	22	15/2	Laser Engraver	600	O
						23	C	24	-		600	O
						25	A	26	20/1	Fume Extractor	1000	O
						27	B	28	15/2	Laser Printer	600	O
						29	C	30	-		600	O
						31	A	32	15/2	Laser Printer	600	O
						33	B	34	-		600	O
						35	C	36				
						37	A	38				
						39	B	40				
						41	C	42				

Largest Motor VA		1664	
Largest Motor Phases:		A,B	
Subfeed Breaker to Panel:			

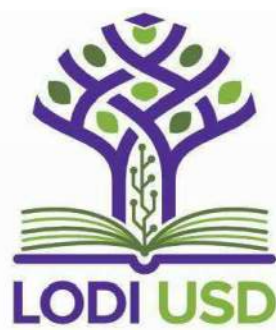
Load Code		VA Load per Phase			Calculation		
		A	B	C	Total VA	Mult.	VA Load
R = Recept		720	2340	2340	5400	1.00	5400
K = Kitchen		0	0	0	0	1.00	0
M = Motor		2497.109	2497.109	1103.509	6097.728	1.00	6098
L = Lighting		376	0	0	376	1.25	470
H = Heat		0	0	0	0	1.25	0
PV = Solar		0	0	0	0	1.25	0
EV = Elec. Vehicle		0	0	0	0	1.25	0
O = Other		2200	1800	2800	6800	1.00	6800
Load Totals		5793.109	6637.109	6243.509	18673.73	1.01	18767.728
VA of Largest Motor					1664	0.25	416
Subfeed VA Loads		0.0	0.0	0.0			
Total VA Loads		6095.1	6845.1	6243.5			
Load Balance		95.3%	107.0%	97.6%			
VA Load This Panel					19183.7		
Amperage This Panel Per Largest Phase VA					57.0		

Notes:
- Panel AIC rating based on wire size and length

LIGHTING FIXTURE SCHEDULE												
TAG	TYPE	MANU.	SERIES	MODEL	QTY.	MOUNTING	VOLT.	WATTAGE	SOURCE	LUMENS	CCT	REMARKS
A	2'X4' FIXTURE	COOPER	METALUX	24C22-60-UNV-L840-CD1-U	8	T-BAR	120	46.3	LED	4000	4000K	
EM	EMERGENCY	ISOLITE	BUG	BUG-6-WH	2	WALL SURFACE	120	-	LED	-	-	90 MIN BATTERY BACKUP, UL 924
EMX	EMER/EXIT COMBO	ISOLITE	CMB	CMB-EM-X-U-WH-MTEBP-L1	4	CEILING SURFACE	120	-	LED	-	-	90 MIN BATTERY BACKUP, UL 924
NOTES: COORDINATE ALL ARCHITECTURAL TRIM AND ACCESSORY OPTIONS WITH OWNER EQUIVALENT FIXTURES ACCEPTABLE CONTINGENT ON OWNER APPROVAL												

VOLTAGE DROP SUMMARY				
Total Feeder Voltage Drop		Worst Case Branch Circuit		Worst Case Voltage Drop
MSB-->TX-1-->L1-->L2-->L3		2.87%	L3-17	0.99%
				3.86%

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851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
ELECTRICAL SCHEDULES

CONSTRUCTION DOCUMENTS

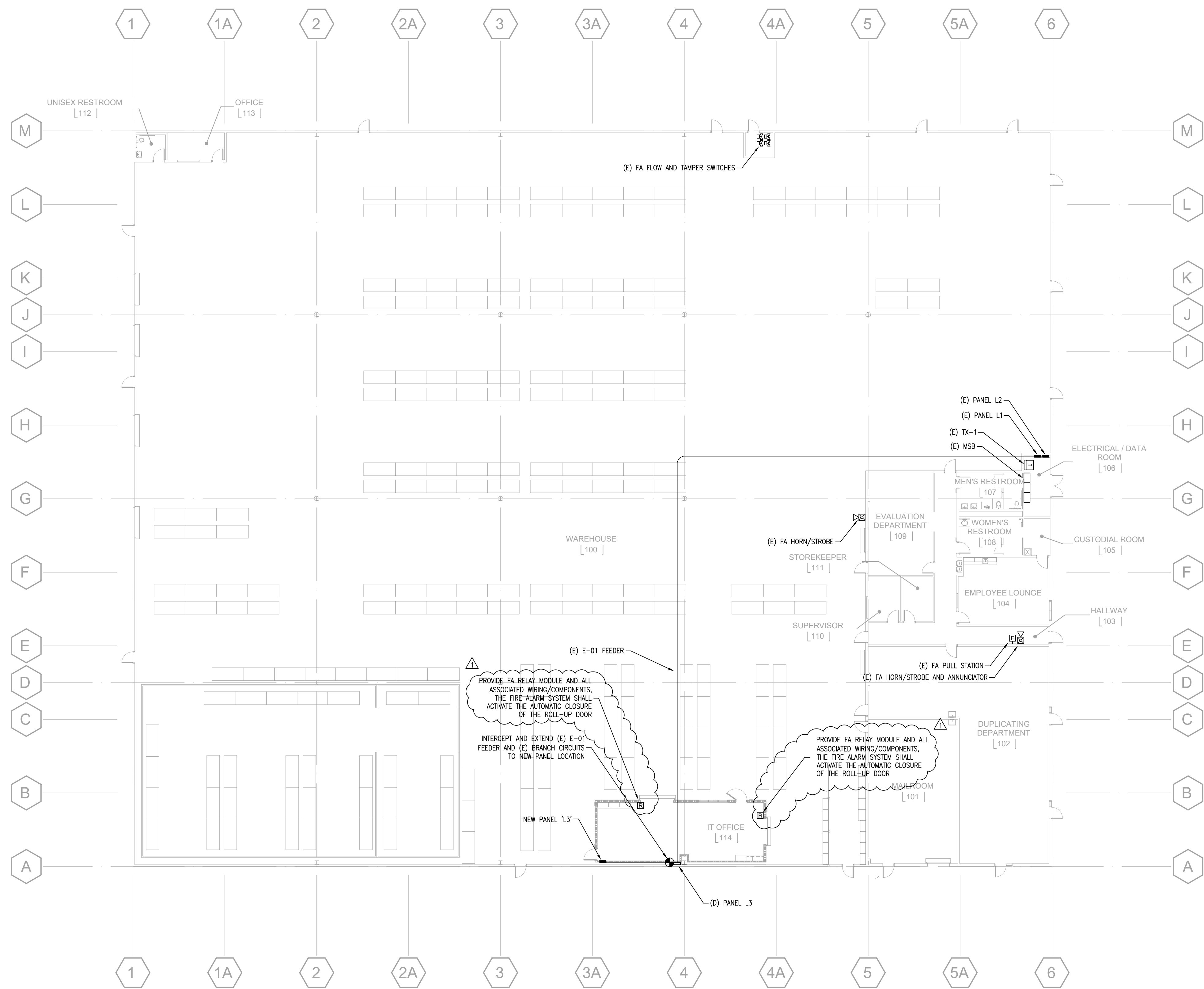
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ELECTRICAL OVERALL PLAN
SHEET 01 OF 02

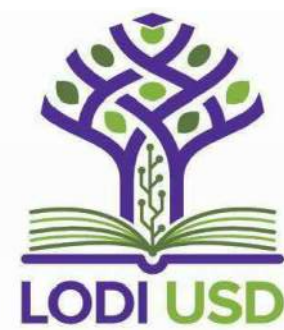


A ELECTRICAL OVERALL PLAN
SCALE: 1/16"=1'-0"

SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL RECEPTACLES/EQUIPMENT SHOWN ARE (N) U.O.A.
- SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, AND MOTOR CONTROL CENTERS THAT ARE IN OTHER THAN DWELLING OCCUPANCIES AND ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. CEC 110.16.
- ALL FIRE-RATED WALL, CEILING, AND ROOF PENETRATIONS FOR JUNCTION BOXES, RECEPTACLES, AND LIGHTING FIXTURES TO BE CAULKED AND SEALED TO PRESERVE THE FIRE RATING. PROVIDE STEEL ELECTRICAL BOXES IN FIRE-RESISTIVE GL'S AND WALLS. SEPARATE ELECTRICAL BOXES BACK TO BACK IN FIRE-RESISTIVE WALLS BY A MIN. OF 24". BOX AREA SHALL NOT EXCEED 16 SQ. IN.

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851 GUILD AVENUE, LODI, CA 95240

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ELECTRICAL OVERALL PLAN

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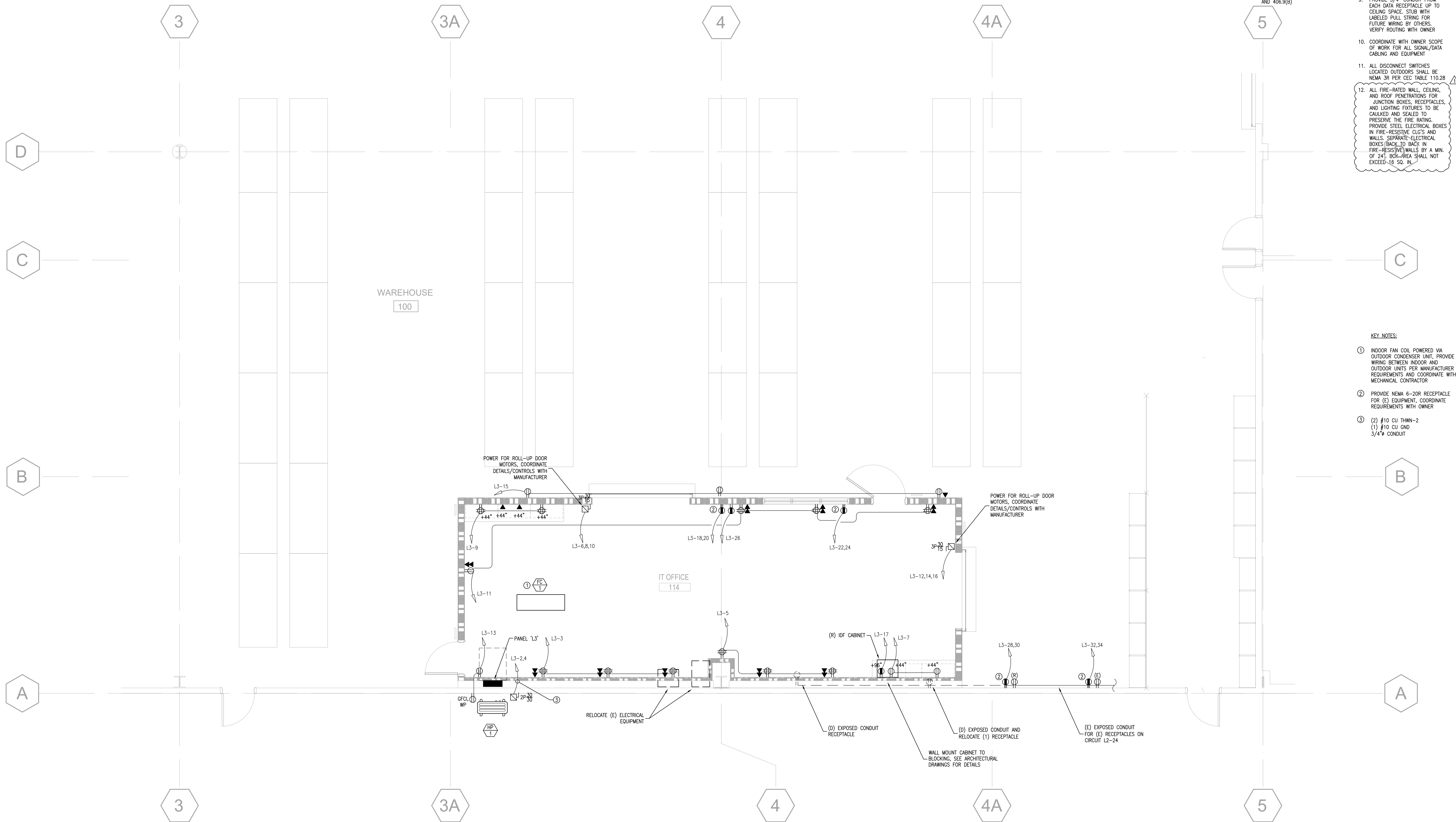
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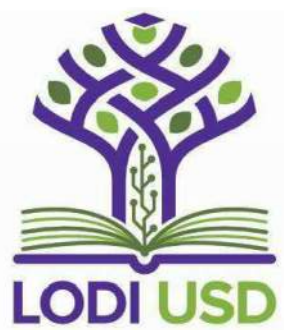
- SHEET NOTES:**
- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
 - ALL RECEPTACLES/EQUIPMENT SHOWN ARE (N) U.O.N.
 - BRANCH CIRCUITS: ALL WIRING SHALL BE #12 AWG CU AND ALL WIRING INSULATION SHALL BE THWN-2, U.O.N.
 - BOTTOM OF BOXES FOR RECEPTACLES AND DATA PORTS SHALL BE AT 16" ABOVE FINISHED FLOOR, U.O.N.
 - GFCI RECEPTACLES SHALL BE WIRED IN PARALLEL
 - ALL RECEPTACLES LOCATED OUTSIDE SHALL BE TYPE WEATHER RESISTANT, GFCI WITH EXTRA DUTY IN-USE COVER, PER NEC 210.8 AND 406.9(B)
 - SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, AND MOTOR CONTROL CENTERS THAT ARE IN OTHER THAN DWELLING OCCUPANCIES AND ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. NEC 110.16
 - ALL RECEPTACLES IN THIS SPACE WILL BE SERVING DATA EQUIPMENT AND IT COMPUTER AND ARE THEREFORE EXEMPT FROM CONC 130.5(d) REQUIREMENTS FOR CONTROLLED RECEPTACLES
 - PROVIDE 3/4" CONDUIT FROM EACH DATA RECEPTACLE UP TO CEILING SPACE. STUB WITH LABELED PULL STRING FOR FUTURE WIRING BY OTHERS. VERIFY ROUTING WITH OWNER
 - COORDINATE WITH OWNER SCOPE OF WORK FOR ALL SIGNAL/DATA CABLES AND EQUIPMENT
 - ALL DISCONNECT SWITCHES LOCATED OUTDOORS SHALL BE NEMA 3R PER NEC TABLE 110.28
 - ALL FIRE-RATED WALL, CEILING, AND ROOF PENETRATIONS FOR JUNCTION BOXES, RECEPTACLES, AND LIGHTING FIXTURES TO BE CAULKED AND SEALED TO PRESERVE THE FIRE RATING. PROVIDE STEEL ELECTRICAL BOXES IN FIRE-RESISTING CLOSURES AND WALLS. SEPARATE ELECTRICAL BOXES BACK TO BACK IN FIRE-RESISTING WALLS BY A MIN. OF 24". BOX AREA SHALL NOT EXCEED 16 SQ. FT.

- KEY NOTES:**
- INDOOR FAN COIL POWERED VIA OUTDOOR CONDENSER UNIT, PROVIDE WIRING BETWEEN INDOOR AND OUTDOOR UNITS PER MANUFACTURER REQUIREMENTS AND COORDINATE WITH MECHANICAL CONTRACTOR
 - PROVIDE NEMA 6-20R RECEPTACLE FOR (E) EQUIPMENT, COORDINATE REQUIREMENTS WITH OWNER
 - (2) #10 CU THWN-2
(1) #10 CU GND
3/4" CONDUIT

A ELECTRICAL IMPROVEMENT PLAN - POWER & SIGNAL
SCALE: 1/4"=1'-0"



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851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
**ELECTRICAL IMPROVEMENT PLAN
POWER & SIGNAL**

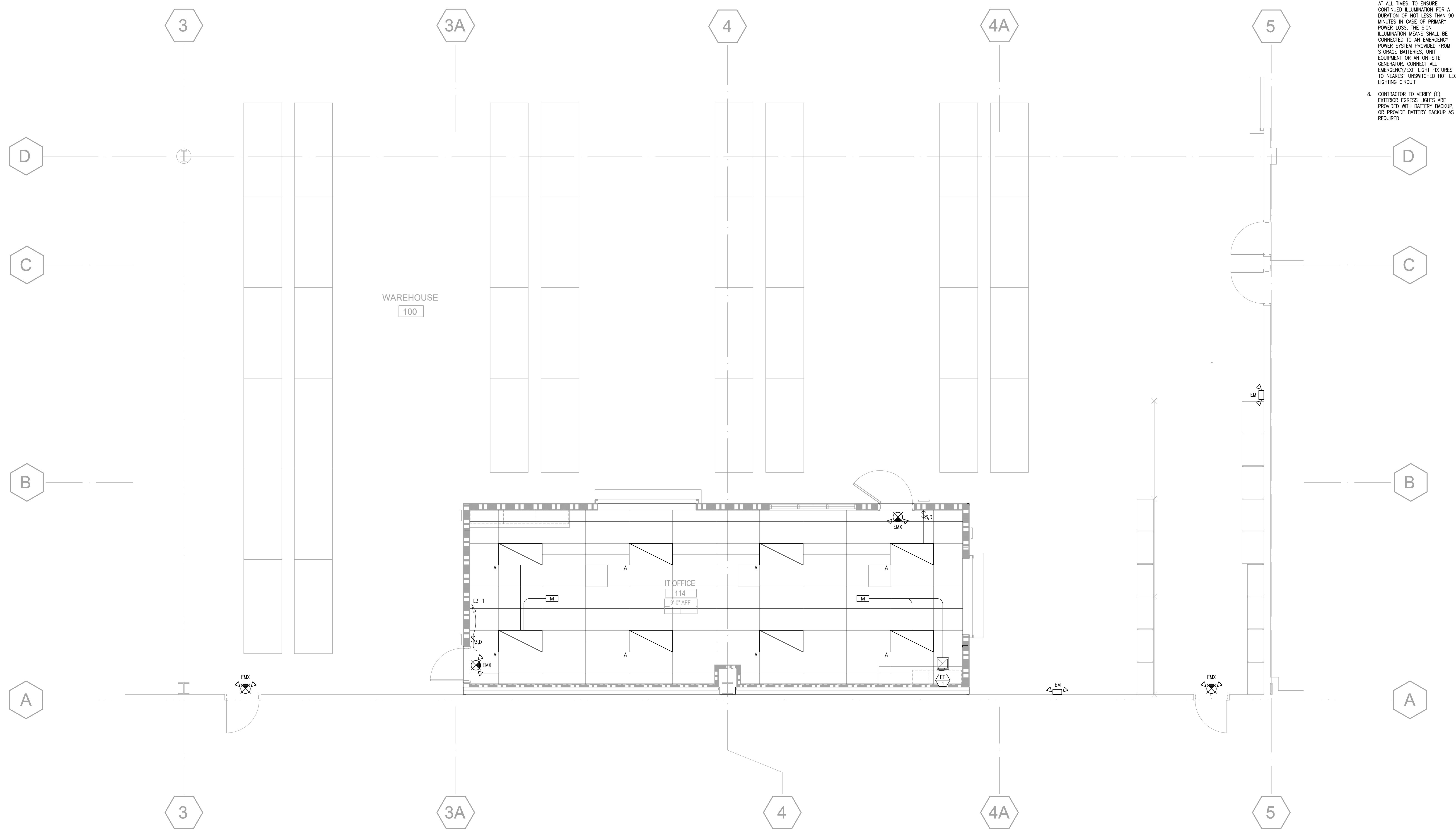
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SHEET NOTES:

3. (E) EXISTING
(N) NEW
(R) RELOCATED
(C) CHINA
2. ALL LIGHT FIXTURES/CONTROLS SHOWN ARE (N) U.O.N.
3. BRANCH CIRCUITS ALL WIRING SHALL BE #12 AWG CU AND ALL WIRING INCLUDING ALL TRIM—2, U.O.N.
4. TOP OF BOXES FOR SWITCHES SHALL BE AT 44" ABOVE FINISHED FLOOR, U.O.N.
5. ALL NEW LIGHT FIXTURES INSTALLED WITHIN 1/2" OF COMBUSTIBLE MATERIAL SHALL BE RATED FOR AND LABELED AS TYPE IC (ISOLATION CONTACT)
6. ALL LIGHTING CONTROLS, INCLUDING BUT NOT LIMITED TO THE SWITCHES, PHOTOSENSORS, OWNERS, AND OCCUPANCY SENSING DEVICES SHALL COMPLY WITH CEC 110.9, 120.0-120.5, 140.0-140.6, AND 141.0.
7. CONTROLS MAY BE SELF-CONTAINED OR PART OF A LIGHTING CONTROL SYSTEM AS DEFINED IN CEC 100.1.
8. RECOMMENDED LIGHTING CONTROL SYSTEMS MEETING THESE REQUIREMENTS INCLUDE: AUTOMATIC NIGHT AND COOPER WAKEUP, SENSORS, REMOVAL SHOWN ON PLANS ARE THE MINIMUM REQUIRED AND SHALL BE INCLUDED IN ANY LIGHTING CONTROL SYSTEM. CONSULT PREPARED SPECIFICATIONS FOR PRODUCT SPECIFICATION AND INSTALLATION DETAILS.
9. EXIST SIGNS SHALL BE ELIMINATED AT ALL TIMES. TO ENSURE CONTINUATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE SIGN ELIMINATION MEANS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. CONNECT ALL EMERGENCY/EEXIT LIGHT FIXTURES TO NEAREST UNWINKED HOT LEG LIGHTING CIRCUIT.
8. CONTAINER TO VERIFY (E) EXISTING CIGARETTE LIGHTS ARE PROVIDED WITH BATTERY BACKUP, OR PROVIDE BATTERY BACKUP AS REQUIRED.

**AGENCY
APPROVAL:**



HMC Architects

3431006000

3546 CONCOURS STREET
ONTARIO, CA 91764
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ISSUE

DESCRIPTION	DATE
-------------	------

1 PC COMMENTS 10/29/24



FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
ELECTRICAL IMPROVEMENT PLAN
LIGHTING

CONSTRUCTION DOCUMENTS

DATE: 06/05/24	CLIENT PROJ NO:
SHEET:	

 NORTH

A ELECTRICAL IMPROVEMENT PLAN - LIGHTING
SCALE: 1/4"=1'-0"

E1.2

PLEASE RECYCLE 

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD						NRCC-PRF-E	
Nonresidential Performance Compliance Method						(Page 1 of 14)	
Project Name:		Lodi USD - IT Office		Date Prepared:		2024-06-05	
A. General Information							
1	Project Name	Lodi USD - IT Office					
2	Run Title	Title 24 Analysis					
3	Project Location	851 Guild Ave					
4	City	Lodi	5	Standards Version	Compliance 2022		
6	Zip code	95240	7	Compliance Software (version)	EnergyPro 9.3		
8	Climate Zone	12	9	Building Orientation (deg)	0		
10	Building Type(s)	• Nonresidential		11	Weather File	STOCKTON_STYP20.epw	
12	Project Scope	• Existing addition and alteration		13	Number of Dwelling Units	0	
14	Total Conditioned Floor Area in Scope (ft²)	728		15	Total # of hotel/motel rooms	0	
16	Total Unconditioned Floor Area (ft²)	44000		17	Fuel Type	Natural gas	
18	Nonresidential Conditioned Floor Area	728		19	Total # of Stories (Habitable Above Grade)	1	
20	Residential Conditioned Floor Area	0					

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 4 of 14)
C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)				
COMPLIES ¹				
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹	
Space Heating	0.02	2.64	-2.62	
Space Cooling	280.85	399.48	-118.63	
Indoor Fans	498.56	184.01	314.55	
Heat Rejection	0	0	0	
Pumps & Misc.	0	0	0	
Domestic Hot Water	93.56	93.55	0.01	
Indoor Lighting	33.37	28.72	4.65	
Flexibility	---	---	---	
EFFICIENCY COMPLIANCE TOTAL	906.36	708.4	197.96 (21.8%)	
Photovoltaics	---	---	---	
Batteries	---	---	---	
TOTAL COMPLIANCE	906.36	708.4	197.96 (21.8%)	

¹ Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-E

Nonresidential Performance Compliance Method

(Page 7 of 14)

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI¹	7.31	6.89	0.42	5.75
NET EUI¹	7.31	6.89	0.42	5.75

Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing¹	0	0	0
East-Facing²	0	0	0
South-Facing³	558	0	0
West-Facing³	0	0	0
Total	558	0	0
Roof	0	0	0

Notes

¹North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).

²East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE).

³South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE).

³West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW).

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD						NRCC-PRF-E	
Nonresidential Performance Compliance Method						(Page 2 of 14)	
B. PROJECT SUMMARY							
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.							
Building Components Complying via Performance				Building Components Complying Prescriptively			
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☒	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E). Indoor Lighting (Unconditioned) 140.6 & 170.2(e) Outdoor Lighting 140.7 & 170.2(e) Sign Lighting 140.8 & 170.2(e)	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☒	Performance	NRCC-LTI-E is required	
	MultiFam	Not Included		☒	Not Included	NRCC-LTO-E is required	
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☒	Performance	NRCC-LTS-E is required	
	MultiFam	Not Included		☒	Not Included	Building Components Complying with Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☒	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included	Electrical Power Distribution 110.11 NRCC-ELC-E is required	
				☒	Performance	Commissioning 120.8 NRCC-CMR-E is required	
				☒	Not Included	Solar and Battery 110.10 NRCC-SAB-E is required	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-06-05 10:07:47
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-E

Nonresidential Performance Compliance Method

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C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Receptacle	937.65	937.65	---
Process	136.01	136.01	---
Other Ltg	1366.82	1366.82	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	3346.84	3148.88	197.96 (5.9%)

¹ Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1
 ☐ This project is pursuing CalGreen Tier 2

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD										NRCC-PRF-E
Nonresidential Performance Compliance Method										(Page 8 of 14)
G4. NONRESIDENTIAL AIR BARRIER										
01					02					
Building Story Name					Air Barrier					
Com-Floor 1					No air barrier					
G5. OPAQUE SURFACE ASSEMBLY SUMMARY										
01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value Interior Exterior		Units	Value	Description of Assembly Layers	Status¹
Slab On Grade7	Underground Floor	44,728	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =none Insulation R-Value =none	N
Ceiling9	Ceiling	728	Metal	21	N/A	N/A	U-factor	0.0855	Composite-1 Gypsum Board - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 3/8 in.	N
Wall11	Interior Wall	972	Metal	15	N/A	1.25	U-factor	0.1491	Gypsum Board - 1/2 in. Extruded Polystyrene - XPS - 1/4 in. R1.25 Composite-2 Gypsum Board - 1/2 in.	N
Exterior Wall13	Exterior Wall	558	Metal	21	N/A	N/A	U-factor	0.1719	Concrete - 140 lb/ft3 - 6 in. Composite-3 Gypsum Board - 1/2 in.	N

¹ Status: N - New, A - Altered, E - Existing

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NRCC-PRF-E
Nonresidential Performance Compliance Method				(Page 3 of 14)
C1. COMPLIANCE SUMMARY				
COMPLIES ¹				
	Time Dependent Valuation (TDV)		Source Energy Use	
	Efficiency ² (kBtu/ft ² - yr)	Total ³ (kBtu/ft ² - yr)	Total ² (kBtu/ft ² - yr)	
Standard Design	906.36	n/a	n/a	
Proposed Design	708.4	n/a	n/a	
Compliance Margins	197.96	n/a	n/a	
	Pass	n/a	n/a	
¹ Efficiency measures include improvements like a better building envelope and more efficient equipment				
² Compliance Totals include efficiency, photovoltaics and batteries				
³ New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded				
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded				

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD												NRCC-PRF-E	
Nonresidential Performance Compliance Method												(Page 10 of 14)	
H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY													
01	02	03	04	05	06	07	08	09	10	11	12		
System ID	System Type	Qty	Rated Capacity (kBtu/h)	Airflow (cfm)	Fan								
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD		
1-FC-1-Trm	Uncontrolled	1	N/A	N/A	1,125	N/A	0	N/A	N/A	N/A			
PropMCHg-NonResZnSys	Single Zone Air Conditioner	1	0	60.87	1,985.51	N/A	N/A	0	W/cfm	Cycling			
K1. INDOOR CONDITIONED LIGHTING GENERAL INFO													
01	02	03	04	05	06								
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance									
				Area Category Footnotes (Watts)	Area Category Footnotes (Watts)								
Office (250 square feet)	728	376	0	0	0								
Building Totals:	728	376	0	0	0								
¹ See Table 140.6-C ² See NRCC-LTI-E for unconditioned spaces Lighting information for existing spaces modeled is not included in this table													

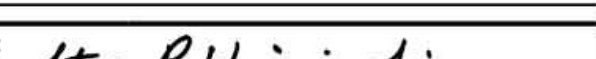
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-06-05 10:07:47
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E	
Nonresidential Performance Compliance Method		(Page 13 of 14)	
Documentation Author's Declaration Statement			
1. I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Jacob Pleis		Documentation Author Signature: 	
Company: Optimized Energy & Facilities Consulting		Signature Date: 2024-06-05	
Address: 5734 Lonetree Blvd		CEA/HERS Certification Identification (if applicable):	
City/State/Zip: Rocklin, CA 95765		Phone: (916) 622-4882	
Responsible Person's Declaration statement			
I certify the following under penalty of perjury, under the laws of the State of California:			
1. The information provided on this Certificate of Compliance is true and correct.			
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)			
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.			
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.			
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.			
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.			
Responsible Designer Name:		Responsible Designer Signature:	
Company: HMC Architects		Date Signed:	
Address: 2101 Capitol Ave #100		License #:	
City/State/Zip: Sacramento, CA 95816		Title:	
Phone: (916) 368-7990		Scope:	
Responsible Designer Name: Alex Battista		Responsible Designer Signature: 	
Company: Optimized Energy & Facilities Consulting, Inc		Date Signed: 2024-06-05	
Address: 5734 Lonetree Blvd		License #:	
City/State/Zip: Rocklin, CA 95765		Title:	
Phone: (916) 626-5518		Scope:	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-06-05 10:07:47
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD						NRCC-PRF-E	
Nonresidential Performance Compliance Method						(Page 11 of 14)	
K2. INDOOR CONDITIONED LIGHTING SCHEDULE							
Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft ² in offices)							
01	02	03	04	05	06		
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts		
A	A	47	According to	8	376		
¹ If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.							
K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL							
Building Level Controls							
01				02			
Mandatory Demand Response 110.12(c)				Shut-Off Controls 130.1(c) & 160.5(b)4C			
NA				NA			
Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)							
03	04	05	06	07	08	09	
Area Description	Area Category Primary Function Area	Area Controls 130.1(a) & 160.5(b)4A	Multi-Level Controls 130.1(b) & 160.5(b)4B	Shut-Off Controls 130.1(c) & 160.5(b)4C	Primary Daylighting 130.1(d) & 160.5(b)4D	Secondary Daylighting 140.5(d) & 160.5(b)4D	
IT Office 114	Office (250 square feet)	Required	Required	Required	NA	NA	
L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION							
Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.							
Building Component		Form/Title					
Envelope		NRCI-ENV-01-E - Must be submitted for all buildings					
Envelope		NRCI-ENV-E - Envelope (for all buildings)					
Mechanical		NRCI-MCH-01-E - Must be submitted for all buildings					

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E	
Nonresidential Performance Compliance Method		(Page 14 of 14)	
Responsible Designer Name: Steve Wisniewski		Responsible Designer Signature: 	
Company: Optimized Energy & Facilities Consulting, Inc		Date Signed: 2024-06-05	
Address: 5734 Lonetree Blvd		License #: M32225	
City/State/Zip: Rocklin, CA 95765		Title:	
Phone: (916) 626-5518		Scope:	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-06-05 10:07:47
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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD		NRCC-PRF-E	
Nonresidential Performance Compliance Method		(Page 12 of 14)	
L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION			
Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.			
Building Component		Form/Title	
Mechanical		NRCI-MCH-E - For all buildings with Mechanical Systems	
Indoor Lighting		NRCI-LTI-01-E - Must be submitted for all buildings	
Indoor Lighting		NRCI-LTI-E - Indoor Lighting (for all buildings)	
M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			
Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).			
Building Component		Form/Title & System Name(s)	
Indoor Lighting		NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.	
Mechanical		NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap	
Mechanical		NRCA-MCH-03-A - Constant Volume Single Zone HVAC	
N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION			
Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online.			
There are no Certificates of Verification applicable to this project			

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-06-05 10:07:47
Schema Version: rev 20220601 Compliance ID: EnergyPro-5910-0624-0046

AGENCY APPROVAL:



HMC Architects

3431006000

3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

ISSUE	
DESCRIPTION	DATE



FACILITY:
LODI UNIFIED SCHOOL DISTRICT WAREHOUSE
851 GUILD AVENUE, LODI, CA 95240

PROJECT:
WAREHOUSE IT OFFICE ADDITION

SHEET NAME:
ENERGY COMPLIANCE

CONSTRUCTION DOCUMENTS

DATE: 06/05/24	CLIENT PROJ NO:
----------------	-----------------

SHEET:

EN0.1