ROOF REPLACEMENT & FACADE REPAIRS

5555 E OLIVE AVENUE, FRESNO, CA 93727

ADOPTION / APPROVAL

CONTRACT NUMBER: **24-S-08**
ADOPTED BY COUNTY OF FRESNO
BOARD OF SUPERVISORS

_____, 20_____

BRIAN PACHECO		DISTRICT 1
STEVE BRANDAU		DISTRICT 2
SAL QUINTERO		DISTRICT 3
BUDDY MENDES	VICE-CHAIRMAN	DISTRICT 4
NATHAN MAGSIG	CHAIRMAN	DISTRICT 5

APPROVED

Steve White
Digitally signed by Steve White
Date: 2024.10.15 16:33:33 -07'00'

STEVEN E. WHITE, DIRECTOR
DEPARTMENT OF PUBLIC WORKS AND PLANNING

PROJECT INFORMATION

1. OWNER INFORMATION

COUNTY OF FRESNO

CONTACT PERSON:
LUCAS REYES
INTERNAL SERVICES DEPARTMENT (FACILITIES SERVICES)
4590 E. KINGS CANYON RD., FRESNO, CA 93702
CELL (559) 417-2314

2. PROJECT ADDRESS

5555 E. OLIVE AVE.,
FRESNO, CA 93727

3. EXISTING SITE DATA

- JURISDICTIONAL AGENCY= FRESNO COUNTY
- A.P.N= 4552231257
- CURRENT ZONE= IL (INDUSTRIAL LIGHT)
- EXISTING LAND USE= OFFICE FACILITY
- PLANNED LAND USE= NO CHANGE IN LAND USE
- GROSS LOT AREA= 9.70 ACRE

NO CHANGE PROPOSED

4. EXISTING BUILDING DATA

EXISTING USE:
OFFICE= GROUP "B" OCCUPANCY

TYPE OF CONSTRUCTION
A. VB- FIRE SPRINKLERED
B. NUMBER OF STORIES -1

***NO CHANGE IN USE AND TYPE PROPOSED.**

5. SCOPE OF WORK

1. BUILDING FACADE REPAIRS : REPAINT, REPLACEMENT OF WATER, DAMAGED SOFFIT, BRICK VENEERS REPAIR
2. RE-ROOFING AND STRUCTURAL FRAMING ANALYSIS
APPROXIMATE AREA OR REPAIR AND RE-ROOF: **115,000 SQ. FT.**

"ALL FUTURE ROOF MOUNTED HVAC UNITS ARE NOT PART OF THIS SUBMITTAL AND WILL BE UNDER SEPARATE PERMIT.

PROJECT
ROOF REPLACEMENT & FACADE REPAIRS

5555 E Olive Avenue, Fresno, CA 93727

CLIENT

THE COUNTY OF FRESNO 1856

ARCHITECT

ROBINA WRIGHT
Architect & Associates, Inc.
M.S. ARCHITECTURE, CERTIFIED ACCESS SPECIALIST, NCARB
LIC. # 32283

448 EAST OLIVE AVENUE
FRESNO, CA. 93728
Tel. # 559-307-7232

robina@robinawrightarchitect.com
robinawrightarchitect.com

SEAL & SIGNATURE

LICENSED ARCHITECT
ROBINA R. WRIGHT
NO. C-32283
RENEWAL DATE
06/30/2025
STATE OF CALIFORNIA

CONSULTANT

UPDATE
SEPTEMBER 18, 2024

1	01 PC # 24-0742	2024 08 15

DRAWING SYMBOLS

BUILDING SECTION / EXTERIOR ELEVATION
SECTION IDENTIFICATION
SHEET NUMBER

WALL SECTION
SECTION IDENTIFICATION
SHEET NUMBER

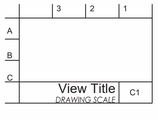
DETAIL REFERENCE
DETAIL NUMBER
SHEET NUMBER

GRID BUBBLE - PROPOSED / EXISTING
GRID NUMBER
GRID LINE

ELEVATION DATUM
LEVEL NAME
LEVEL ELEVATION

NORTH ARROW
TRUE NORTH
PROJECT NORTH

GRID REFERENCE



DRAWING LOCATION LABEL:
LABEL IS DETERMINED BY BOTTOM NUMBER & RIGHT LETTER OF THE GRID WHERE THE DETAIL IS DRAWN.

GENERAL NOTES

1. SCOPE OF WORK SHALL BE CONSTRUCTED ACCORDING TO THESE WORKING DRAWINGS AS AGREED UPON BETWEEN OWNER AND CONTRACTOR. THE WORD "CONTRACTOR" REFERS TO THE GENERAL CONTRACTOR. "SUBCONTRACTOR" REFERS TO ONE HAVING DIRECT CONTACT WITH THE CONTRACTOR.

2. CONTRACTOR'S RESPONSIBILITIES:
   A. CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE JOB SITE BEFORE THEIR BID IS SUBMITTED TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS.
   B. THE GENERAL CONTRACTOR SHALL READ, EXAMINE AND BE THOROUGHLY FAMILIAR WITH THESE DRAWINGS AND WITH THE EXISTING SITE CONDITIONS PRIOR TO THE START OF WORK, IN THE EVENT THERE ARE DISCREPANCIES OR OMISSIONS WITHIN THE DRAWINGS AND/OR SPECIFICATIONS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
   C. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE PROJECT.
   D. EXPOSED UNFINISHED SURFACES CREATED BY REMOVAL OF EXISTING MATERIALS, AND SURFACES DAMAGED OR DISTURBED BY REMODELING WORK, SHALL BE REPAIRED/PATCHED WITH NEW MATERIALS AND FINISHED TO MATCH EXISTING WORK AS MUCH AS IS REQUIRED TO PROVIDE A SIMILAR EVEN APPEARANCE.
   E. NO DRAWINGS, DETAILS, NOTES ETC., SHALL BE INTERPRETED TO ALLOW FOR A VIOLATION OF THE LOCAL BUILDING CODE, STATE BUILDING CODE AND OTHER APPLICABLE CODES AND GOOD CONSTRUCTION PRACTICES.
   F. THE GENERAL CONTRACTOR SHALL REVIEW ALL GRADE ELEVATIONS PRIOR TO CONSTRUCTION.
   G. CONTRACTORS SHALL VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, MATERIALS, SIZE OF MEMBERS, ETC., PRIOR TO ON-SITE DELIVERY.
   H. JOB SHALL BE COMPLETED WITH AS MUCH SPEED AS POSSIBLE WHEN WORK BEGINS.
   I. OWNERS SHALL NOT MAKE ANY PAYMENTS TO THE GENERAL CONTRACTOR OR ANY SUBCONTRACTOR WITHOUT RECEIVING LIEN RELEASES FROM ALL PEOPLES WHO HAVE PROVIDE LABOR OR MATERIAL.
   J. PERMITS: THE CONTRACTOR AND SUBCONTRACTOR SHALL OBTAIN AND PAY ALL PERMITS, LICENSES AND FEES REQUIRED BY CITY, COUNTY AND STATE LAWS, EXCEPT THE BUILDING, ELECTRICAL, MECHANICAL, AND PLUMBING PLAN FEES AND PERMIT FEES, WHICH WILL BE PAID FOR BY THE OWNER. ALL LAWS, ORDINANCES AND REGULATIONS SHALL BE COMPLIED WITH AND ALL NECESSARY EXPENSES FOR COMPLIANCE SHALL BE INCLUDED IN THE CONTRACT.
   K. INSPECTIONS: THE CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS FOR HIS WORK AND GIVE THE OWNER TIMELY NOTICE OF HIS INTENT TO HAVE INSPECTION.
   L. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS, THE SIZE AND LOCATION OF ALL PIPING, DUCTWORK, TRENCHES, SLEEVES, SPECIAL BOLTING FOR EQUIPMENT CONDUITS, ETC..
   M. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION, BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER AND ARCHITECT.
   N. THE CONTRACTOR SHALL PROVIDE ALL RISK INSURANCE. REFER TO PROJECT MANUAL FOR MINIMUM LIABILITY AND PROJECT DAMAGE COVERAGE.
   O. THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SANITARY FACILITY ENCLOSURES. LOCATE AS DIRECTED BY OWNER. NEW FACILITIES SHALL NOT BE USED DURING CONSTRUCTION.
   P. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE SUCCESSFUL COMPLETION OF THE PROJECT.
   Q. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL APPLICABLE LAWS AND CODE REGULATIONS. THESE CODES INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA RESIDENTIAL CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN)
COUNTY OF FRESNO MUNICIPAL ORDINANCE

3. ERRORS AND OMISSION: IF ANY ERRORS OR OMISSIONS APPEAR IN THESE DRAWINGS, OR OTHER CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR AND SUBCONTRACTORS AFFECTED SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH ERROR OR OMISSION. IN THE EVENT OF FAILING TO GIVE SUCH WRITTEN NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, HE WILL BE HELD RESPONSIBLE FOR THE RESULT OF THE ANY SUCH ERRORS OR OMISSIONS AND THE COST FOR RECTIFYING THE SAME.

4. GUARANTEES: CONTRACTOR SHALL GUARANTEE THE WORK IN GENERAL FOR ONE YEAR AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE BUILDING FREE FROM DEFECTS OF MATERIALS AND POOR WORKMANSHIP FROM DATE OF COMPLETION. THE CONTRACTOR SHALL FURNISHED A WRITTEN GUARANTEE STATING THAT ALL WORK EXECUTED BY HIM WILL BE FREE FROM DEFECTS OF THE MATERIALS AND WORKMANSHIP FOR PERIOD OF ONE YEAR (UNLESS OTHERWISE SPECIFIED) FROM DATE OF ACCEPTANCE OF HIS WORK, THAT HE WILL REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK AND ALL OTHER WORK DAMAGE WITHOUT COST TO THE OWNER.

5. DIMENSIONS: FIGURED DIMENSIONS SHALL BE FOLLOWED IN PREFERENCE TO SMALL SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ANY WORK IS CONSTRUCTED AND OR FABRICATED. THE SPECIFICATION AND/OR SCHEDULES ON THE DRAWINGS SHALL HAVE WRITTEN NOTES AND OR BE FOLLOWED IN PREFERENCE TO INFORMATION FURNISHED IN THE FORM OF LINES ON DRAWINGS. DETAILED CLARIFICATION DRAWINGS FURNISHED DURING CONSTRUCTION OR APPROVED BY THE ARCHITECT ARE TO BE CONSIDERED EXPLANATORY AND NOT AS MODIFICATIONS OF THESE PLANS AS SHALL BE CALLED CLARIFICATION DRAWINGS. ALL NOTES, FIGURES AND DETAIL DRAWINGS SHALL BE FOLLOWED AND EXECUTED AS PART OF THESE NOTES. ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DIMENSION LINES ARE TO FACE OF STUD UNLESS NOTED OTHERWISE (U.N.O.)

6. JOB CONDITIONS:
   A. DUST CONTROL: USE ALL MEANS NECESSARY TO PREVENT THE SPREAD OF DUST DURING THE PERFORMANCE OF SITE WORK. THOROUGHLY MOISTEN ALL EXTERIOR SURFACES AS REQUIRED TO PREVENT DUST FROM BEING A NUISANCE TO THE PUBLIC, NEIGHBORS AND CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE.
   B. PROTECTION: USE ALL MEANS NECESSARY TO PROTECT EXISTING OBJECTS TO REMAIN AND IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.

7. PREPARATION:
   A. NOTIFICATION: THE CONTRACTOR SHALL INFORM THE OWNER AND ARCHITECT OF THE DATE FOR START OF SITE WORK. THE DATE SHALL BE ACCEPTABLE TO ALL PARTIES.
   B. SITE INSPECTION:
      - PRIOR TO ANY DEMOLITION, CAREFULLY INSPECT THE ENTIRE SITE & ALL OBJECTS DESIGNATED TO BE REMOVED & TO REMAIN.
      - LOCATE ALL EXISTING UTILITY LINES AND EQUIPMENT. DETERMINE WHICH UTILITIES MUST BE REMOVED AND WHICH ARE TO REMAIN AS WELL AS ALL REQUIREMENTS FOR DISCONNECTING OR CAPPING.
   C. PROTECTIVE WORKS:
      - DEMOLITION SHALL NOT PROCEED UNTIL SUCH PROTECTIVE WORKS ARE PLACED AS ARE REQUIRED TO PROTECT THE PROPERTY AND PERSONNEL FROM THAT HAZARDS OF THE WORK.
      - LOCATE ALL EXISTING UTILITY LINES AND EQUIPMENT. DETERMINE WHICH UTILITIES MUST BE REMOVED AND WHICH ARE TO REMAIN AS WELL AS ALL REQUIREMENTS FOR DISCONNECTING OR CAPPING.
   D. DAMAGE TO EXISTING WORK: EXISTING WORK DAMAGE IN THAT EXECUTION OF THIS WORK SHALL BE REPAIRED OR RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

8. DISCONNECTION OF UTILITIES:
   BEFORE STARTING JOB OPERATIONS, DISCONNECT OR ARRANGE FOR THE DISCONNECTION OF ALL UTILITIES TO BE REMOVED, PERFORMING ALL SUCH WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY OR AGENCY INVOLVED, AND WITH OWNER.

9. PROTECTION OF UTILITIES:
   - PRESERVE IN OPERATING CONDITION ALL ACTIVE UTILITIES REMAINING.

10. USE OF THE PREMISES: THE CONTRACTOR SHALL CONFINE HIS WORKMEN, AND THE PARKING OF WORKMEN'S VEHICLES TO LIMITS INDICATED BY LAW, ORDINANCE, PERMITS OR DIRECTION OF THE OWNER.

11. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT OR, WHERE DRAWINGS OR THE FIELD CONDITIONS THE ARCHITECT AND STRUCTURAL ENGINEER SHALL DETERMINE APPROPRIATE PROCEDURE TO BE FOLLOWED. NO PORTION OF THESE DRAWING SUPERSEDE ANOTHER.

12. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF FLOOR AND WALL PENETRATIONS AND VERIFY THAT OPENING ARE WITHIN THE LIMITATION OF THE STRUCTURAL DESIGN

13. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, FLOW LINES, AND POINTS OF ANY DISCREPANCIES SHALL BE CALLED TO THE ARCHITECT'S ATTENTION BEFORE PROCEEDING THE WORK.

14. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA PRIOR TO THE EXCAVATION. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF EXISTING UTILITIES AND PAVEMENT WITHIN THE DRAWINGS OF THE WORK WHETHER INDICATED ON THE DRAWING OR NOT UNLESS NOTED OTHERWISE. ALL UTILITIES TO BE UNDERGROUND PER UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.

15. EACH SUBCONTRACTOR IS CONSIDERED A SPECIALIST IN HIS RESPECTIVE FIELD AND SHALL PRIOR TO THE SUBMISSION OF BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR OR OWNER OF ANY WORK CALLED OUT IN THE DRAWING IN HIS TRADE THAT CANNOT BE FULLY GUARANTEED. THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE APPROPRIATE HOOK-UP TO ALL UTILITIES REQUIRED TO SUPPORT THE WORK. MATERIALS AND EMPLOYEES: UNLESS OTHERWISE DIRECTED BY THE OWNER, THE CONTRACTOR AND/OR SUBCONTRACTOR SHALL PROVIDE AND PAY FOR ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, TELEPHONE, AND GAS TRANSPORTATION. MATERIALS SHALL BE OF GOOD QUALITY.

16. DO NOT MAKE CONNECTION, BRACE, OR SUSPEND ANY CONSTRUCTION OR EQUIPMENT FROM THE FLOOR OR ROOF DECK OR JOISTS SPECIFICALLY AUTHORIZED BY STRUCTURAL ENGINEER AND ARCHITECT.

17. ALL CHANGES IN PLAN CREATED BY ITEMS PROJECTING FROM OR INTO THE EXTERIOR WALL OF A BUILDING INCLUDING BUT NOT LIMITED TO: BEAMS, PROJECTED BALCONIES, RECESSED BALCONIES, ROOFS, CANOPIES, WATER TABLES, LEDGERS, ETC. SHALL BE COVERED BY A GALVANIZED SHEET METAL FLASHING PLACED UNDERNEATH THE WATER BARRIER. SUCH METAL BARRIER AND SHALL HAVE A LL CORNERS SOLDERED OR FOLDED AND SHALL BE INSTALLED WITH 10-INCH MINIMUM WIDE SAF LAPPED SHINGLE STYLE OVER GSM FLASHING

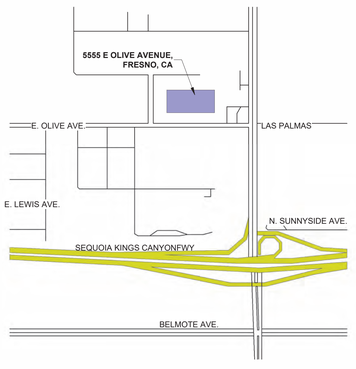
18. CLEANING UP: THE CONTRACTOR AND SUBCONTRACTORS SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY HIS EMPLOYEES AND WORK. AT THE COMPLETION OF THE WORK, HE SHALL REMOVE ALL HIS RUBBISH, ALL OF HIS TOOLS, SCAFFOLDING AND SURPLUS MATERIALS FROM AND ABOUT THE BUILDING AND SHALL LEAVE HIS WORK IN A BROOM CLEAN CONDITION. THE SITE AND BUILDING AREA SHALL BE KEPT CLEAN AND PICKED UP OF DEBRIS AND SCRAPS AT ALL TIMES DURING CONSTRUCTION, PARTICULARLY AT THE END OF EACH WORK WEEK. THE CONTRACTOR SHALL INSURE THAT ALL GLASSES, TILES, TOILET FIXTURES, EQUIPMENT, PAINTED SURFACES, FLOORS, ETC. ARE THOROUGHLY PROTECTED DURING ALL CONDITIONS FOR ACCEPTANCE BY THE OWNER.

19. INTENT OF DRAWINGS: PLANS ARE INTENDED TO SHOW DETAILS FOR A COMPLETE PROJECT. PARTS AND DETAILS NOT FULLY SHOWN SHALL BE DETAILED AND EXECUTED ACCORDING TO STANDARD FIRST CLASS PRACTICE AND IN SIMILAR MANNER AND SPIRIT OF DETAILS WHICH ARE SHOWN. IF THE CONTRACTOR FINDS DETAILS WHICH IN HIS OPINION ARE UNSOUND OR NOT STANDARDS, IT IS HIS DUTY TO NOTIFY THE ARCHITECT OF THIS FACT. IF HE PERFORMS THE WORK AS DETAILED WITHOUT SAID NOTIFICATIONS, THEN IT SHALL BE ASSUMED THAT HE DOES NOT OBJECT TO DETAIL. REFER TO RELATED NOTE BELOW FOR ERRORS AND OMISSION.

20. CLARIFICATION ON DRAWINGS: NOTE THAT DRAWINGS DO NOT SUPPORT TO SHOW ALL OBJECTS EXISTING ON THE JOB. BEFORE COMMENCING ANY DEMOLITION, VERIFY ALL OBJECTS TO BE REMOVED AND ALL OBJECTS TO BE PRESERVED.

21. PLEASE NOTE THAT ALL SPECIFIED MATERIALS ARE SUBJECT TO CHANGE UPON APPROVAL BY ALL PARTIES WITH AN EQUAL AND COMPARABLE ALTERNATE.

22. ASSURING THAT PLANS ARE BEING FOLLOWED AND WHILE THE ARCHITECT WILL GIVE ASSISTANCE IN INTERPRETING THE PLANS, IT DOES NOT RELIEVE THE CONTRACTOR OR ANY SUBCONTRACTORS FROM ANY RESPONSIBILITY FOR WORK WHICH MAY PROVE FAULTY.



VICINITY MAP NTS **D3**

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF DEMOLITION REQUIRED FOR THE EXECUTION OF THE WORK. THE CONTRACTOR SHALL INFORM THE ARCHITECT OF ANY CONDITION DISCOVERED DURING DEMOLITION WHICH AFFEECR ANY STRUCTURAL INTEGRITY OF THE BUILDING AND MATERIALLY IMPACTS THE ABILITY OF THE CONTRACTOR TO EXECUTE THE WORK.
2. THESE NOTES AND SPECIFICATIONS SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE. DETAILS OF CONSTRUCTION NOT SPECIFICALLY SHOWN SHALL BE BUILT PER DETAILS SHOWN FOR SIMILAR MATERIALS AND CONDITIONS.
3. VERIFY ALL EXISTING CONDITIONS, MEASUREMENTS AND CIRCUITING ARRANGEMENTS RELATIVE TO THE SITE BEFORE STARTING WORK. STUDY THE DRAWINGS AND VERIFY WITH EXISTING CONDITION IN DETAIL PRIOR TO COMMENCING AND DEMOLITION WORK. REPORT DISCREPANCIES OR CONDITIONS WHICH MIGHT DISRUPT BUILDING FUNCTIONS TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION.
4. THE CONTRACTOR SHALL PROVIDE REQUIRED PROTECTION INCLUDING BUT NOT NECESSARILY LIMITED TO SHORING, BRACING, AND SUPPORT TO MAINTAIN STRUCTURAL INTEGRITY OF THE WORK.
5. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICATIONS DO NOT CUT OR ALTER STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.
6. WHERE DEMOLITION, REMOVAL OR REWORK OCCURS, TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING WORK REMAINING IN PLACE FROM DAMAGE. FINISHED WORK DAMAGED BY OPERATIONS UNDER THIS CONTRACT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT AT NO INCREASE IN CONTRACT PRICE.
7. DRILL, CUT, ALTER, REMOVE, OR TEMPORARILY REMOVE AND REPLACE EXISTING CONSTRUCTION AS NECESSARY FOR PERFORMANCE OF WORK UNDER THIS CONTRACT
8. CUT FINISH SURFACES SUCH AS CONCRETE, PLASTER OR METALS BY METHODS TO TERMINATE SURFACES IN A STRAIGHT LINE AT A NATURAL POINT OF DIVISION.
9. WHERE NEW WORK JOINS EXISTING CONSTRUCTION, ENSURE THAT JOINING ARE WEATHERTIGHT, SOUND AND EVEN IN APPEARANCE.
10. EXPOSED UNFINISHED SURFACES CREATED BY REMOVAL OF EXISTING MATERIALS, AND SURFACES DAMAGED OR DISTURBED BY REMODELING WORK, SHALL BE REPAIRED/PATCHED WITH NEW MATERIALS AND FINISHED TO MATCH EXISTING WORK AS MUCH AS IS REQUIRED TO PROVIDE A SIMILAR EVEN APPEARANCE.
11. IF REMOVAL OF EXISTING WORK EXPOSED DISCOLORED OR UNFINISHED SURFACES OR WORK OUT OF ALIGNMENT, REFINISH SUCH SURFACES OR REPLACE THE MATERIAL AS NECESSARY TO MAKE CONTIGUOUS WORK UNIFORM.
12. FIXTURES AND OUTLETS TO BE REMOVED SHALL INCLUDE THEIR UTILITY LINES CAPPED WITHIN WALLS OR FLOORS. UTILITY LINES ENCOUNTERED IN THE WORK SHALL BE CAPPED, EXTENDED OR REWORKED AS NECESSARY FOR COMPLETION OR REMODELING.
13. ALL EXISTING ELECTRICAL WIRING, RECEPTACLES NOT TO BE USED SHALL BE REMOVED.
14. WHERE NEW STUD FRAMING IS USED TO INFILL OR ALIGN W/ (E) WALL, FURR AS REQUIRED TO MATCH (E) STUD WIDTH.
15. ALL MATERIALS FROM DEMOLITION AND ALTERATION WHICH ARE NOT TO BE REUSED SHALL BE PROMPTLY REMOVED FROM THE SITE.
16. ALL EXISTING ELECTRICAL AND PLUMBING DRAIN LINES, SUPPLY LINES, VENTS, FIXTURES NOT TO BE USED SHALL BE REMOVED OR CAPPED.
17. REPLACE ANY MEMBERS DAMAGED DURING DEMOLITION OR DUE TO INSECT, WATER ETC. REPLACED MEMBERS SHALL MATCH (E) IN SIZE, GRADE TO BE DF#2 OR BETTER.
18. STORE ITEMS TO BE REUSED IN A PROTECTED LOCATION UNTIL REINSTALLATION.
19. COMMENCING DEMOLITION INDICATES THAT THE CONTRACTOR ACCEPTS EXISTING CONDITIONS.
20. FIELD VERIFY NON-BEARING AND STRUCTURAL CONDITION PRIOR TO START OF WORK.
21. STORE ITEMS TO BE RE-USED IN A PROTECTED LOCATION UNTIL REINSTALLATION.

DRAWING LIST

A-100	COVER PAGE
A-202.0	ROOF DEMOLITION PLAN
A-202.1	PROPOSED ROOF PLAN
A-203	REFLECTED CEILING DEMOLITION PLAN
A-203.1	PROPOSED REFLECTED CEILING PLAN
A-301	ELEVATIONS
A-401	WALL SECTIONS
A-402	WALL SECTIONS
A-801	ARCHITECTURAL DETAILS
A-802	ARCHITECTURAL DETAILS
A-803	ARCHITECTURAL DETAILS
S-101	GENERAL NOTES AND TYPICAL DETAILS
S-202	ROOF FRAMING PLAN
M-100	SITE PLAN AND NOTES
M-101	MECHANICAL SCHEDULES
M-102	MECHANICAL SCHEDULES
M-103	MECHANICAL SCHEDULES
M-104	MECHANICAL SCHEDULES
M-105	MECHANICAL DETAILS
M-300	MECHANICAL ROOF PLAN - OVERALL
M-301	MECHANICAL ROOF PLAN - AREA A
M-302	MECHANICAL ROOF PLAN - AREA B
M-303	MECHANICAL ROOF PLAN - AREA C
M-304	MECHANICAL ROOF PLAN - AREA D

8.5 X 11 ATTACHMENTS:
- EXHIBIT 01 - SPECIFICATIONS
- EXHIBIT 02 - STRUCTURAL ANALYSIS
- EXHIBIT 03 - HVAC SUBMITTAL DATA

APPROVED
FOR PERMIT

This plan is in general conformance with Title 15 of the Fresno County Ordinance Code. This approval does not constitute permission to violate any applicable county ordinance or state law.

By: jcousart — 09/25/24
COUNTY OF FRESNO — DATE

SCALE: As indicated

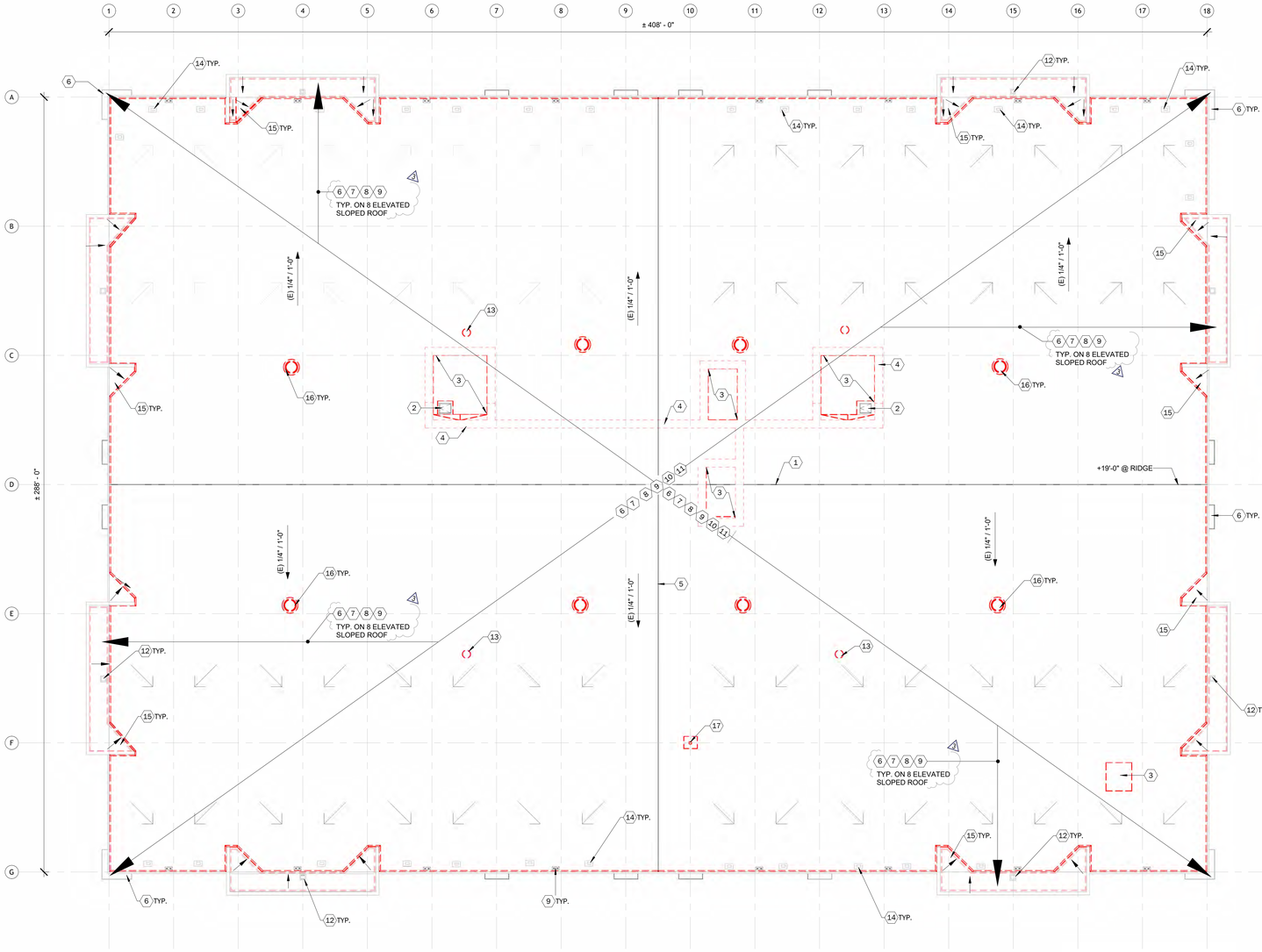
PO #491344

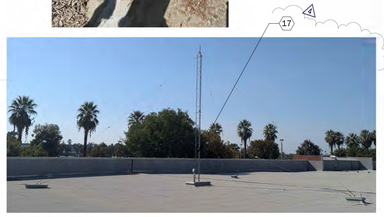
TITLE
COVER PAGE

A-100

ISSUE DATE	JOB NUMBER
MAY 23, 2024	2024_10
DRAWN BY: Author	CHECKED BY: Checker

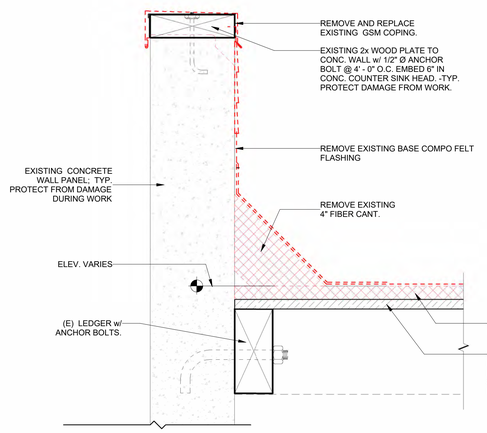
9/18/2024 6:21:36 PM
30" X 42"





ROOF DEMOLITION PLAN
1" = 20'-0"

D2



TYPICAL ROOF DEMO DETAIL
3" = 1'-0"

A2

DEMOLITION PLAN KEYNOTES:

1. EXISTING RIDGE LINE
2. EXISTING ROOF HATCH.
3. REMOVE EXISTING EQUIPMENT PLATFORM. PRESERVE (E) ROOF HATCH. PRESERVE EXISTING HATCH AND RETAIN PORTION OF EQUIPMENT PLATFORM AROUND PERIMETER OF EXISTING ROOF HATCH. PATCH, REPAIR AND RESEAL AS REQUIRED TO PRESERVE HATCH. REFER TO A2 / A-202.1 FOR ADDITIONAL INFORMATION.
4. REMOVE EXISTING ROOF WALKWAY PADS; TYPICAL.
5. REPLACE EXISTING EXPANSION JOINT. REFER TO A2 / A-202.1 FOR ADDITIONAL INFORMATION.
6. REMOVE EXISTING PARAPET CAP, FLASHING AND COUNTER FLASHING ASSEMBLIES. CLEAN AND PREPARE SURFACE FOR INSTALLATION OF NEW PARAPET CAP, FLASHING AND COUNTER FLASHING. REFER TO A2 / A-202.1 FOR ADDITIONAL INFORMATION.
7. REMOVE EXISTING ROOFING INSULATION. CLEAN AND PREPARE FOR INSTALLATION OF NEW ROOFING INSULATIONS.
8. REMOVE EXISTING B.U.R. TO EXPOSE EXISTING SLOPED PLYWOOD SHEATHING. RETAIN EXISTING PLYWOOD SHEATHING. PROTECT FROM DAMAGE DURING THE WORK. CLEAN ROOF AND REMOVE ANY DEBRIS, NAILS AND OTHER APPURTENANCES PRIOR TO INSTALLING NEW ROOF.
9. REMOVE AND SALVAGE FOR REINSTALLATION EXISTING ROOF DRAINS. CLEAN AND MAINTAIN EXISTING ROOF DRAIN AND PIPING. EXTEND TO SURFACE OF NEW MEMBRANE ROOF. REFER TO A2 / A-202.1 FOR ADDITIONAL INFORMATION.
10. REMOVE EXISTING CURB, CRICKETS AND CURB FLASHING AROUND EXISTING EQUIPMENT PLATFORM.
11. CLEAN EXISTING OVER-FLOW DRAINS. REMOVE DIRT AND GRIMES.
12. EXISTING ROOF VENT.
13. EXISTING VENT THRU ROOF. FIELD VERIFY APPLICATION. REMOVE EXISTING ROOF EXHAUST VENTS SERVING EXISTING GAS FIRED WATER HEATER. FIELD VERIFY EXACT LOCATIONS.
14. EXISTING SOFFIT VENTS. TYPICAL ON SOFFIT CONDITIONS.
15. EXISTING BUILT-UP CRICKET. REMOVE / REPAIR AS REQUIRED TO DIRECT WATER TO ROOF DRAIN. TYPICAL ON ALL.
16. REMOVE EXISTING DOWNBLAST EXHAUST FANS.
17. REMOVE EXISTING ROOFTOP ANTENNA TOWER, SUPPORT CABLES, AND CONNECTION CURBS; SALVAGE AND RETURN TO OWNER.
18. REMOVE EXISTING COMPOSITION TILE FLASHING ALONG SIDEWALL PERIMETER. CLEAN AND PREPARE FOR INSTALLATION OF NEW ROOFING MEMBRANE.

GENERAL NOTES:

1. RAISE AND EXTEND EXISTING TO REMAIN SEWER VENTS, VENT STACKS, FLUES, GAS AND OTHER MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS TO A MINIMUM OF 8" ABOVE THE SURFACE OF NEW ROOF. FIELD VERIFY LOCATIONS. REPLACE FLASHING FOR AFFECTED CURBS.
2. REMOVE EXISTING T&P (TEMPERATURE & PRESSURE) RELIEF PIPES SERVING WATER HEATERS AND TERMINATING THROUGH THE ROOF. FIELD VERIFY EXACT LOCATION.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER, OWNERS REPRESENTATIVE & ARCHITECT OF ANY EXISTING DEFORMITIES SUCH AS MOLD, DRY ROT ETC. STRUCTURAL DEFICIENCIES IN EXISTING STRUCTURE REVEALED DURING THE DEMOLITION PHASE THAT WILL NEED TO ADDRESSED BY THE STRUCTURAL ENGINEER AND MAY REQUIRE APPROVAL OF JURISDICTION AGENCY. IN SUCH CASES, CONTRACTOR IS REQUIRED TO PROCEED WITH THAT PORTION OF WORK ONLY AFTER WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER AND/OR JURISDICTIONAL AGENCY. ANY WORK CARRIED OUT PRIOR TO OR WITHOUT APPROVAL OF ENGINEER OR JURISDICTIONAL AGENCY, WILL BE AT RISK. THE OWNER, ITS REPRESENTATIVE AND THE ARCHITECTS (AND ITS ENGINEER) WILL NOT BE RESPONSIBLE FOR ANY COSTS INCURRED FOR NON-COMPLIANT WORK CARRIED OUT WITHOUT THE EXPRESS APPROVAL OF THE ENGINEER OR JURISDICTIONAL AGENCY.
4. CONTRACTOR IS REQUIRED TO VERIFY ALL DIMENSIONS, EXISTING EQUIPMENT AND CONDITIONS ON THE ROOF.
5. DASHED LINE DENOTES AREAS OF DEMOLITION. KEYNOTED ITEMS ARE FOR ADDITIONAL CLARIFICATION.

APPROVED
Sep 25 2024
COUNTY OF FRESNO
DEVELOPMENT SERVICES

PROJECT

ROOF REPLACEMENT & FACADE REPAIRS

5555 E Olive Avenue, Fresno, CA 93727

CLIENT

THE COUNTY OF FRESNO 1856

ARCHITECT

ROBINA WRIGHT
Architect & Associates, Inc.
M.S. ARCHITECTURE, CERTIFIED ACCESS SPECIALIST, NCARB
LIC. # 32283

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LICENSED ARCHITECT
ROBINA R. WRIGHT
NO. C-32283
RENEWAL DATE
06/30/2025
STATE OF CALIFORNIA

CONSULTANT

UPDATE

OCTOBER 21, 2024

2	OWNER REVISIONS	2024 08 21
3	01 ADDENDUM	2024 10 21
4	OWNER REVISIONS	2024 10 21

TITLE

ROOF DEMOLITION PLAN

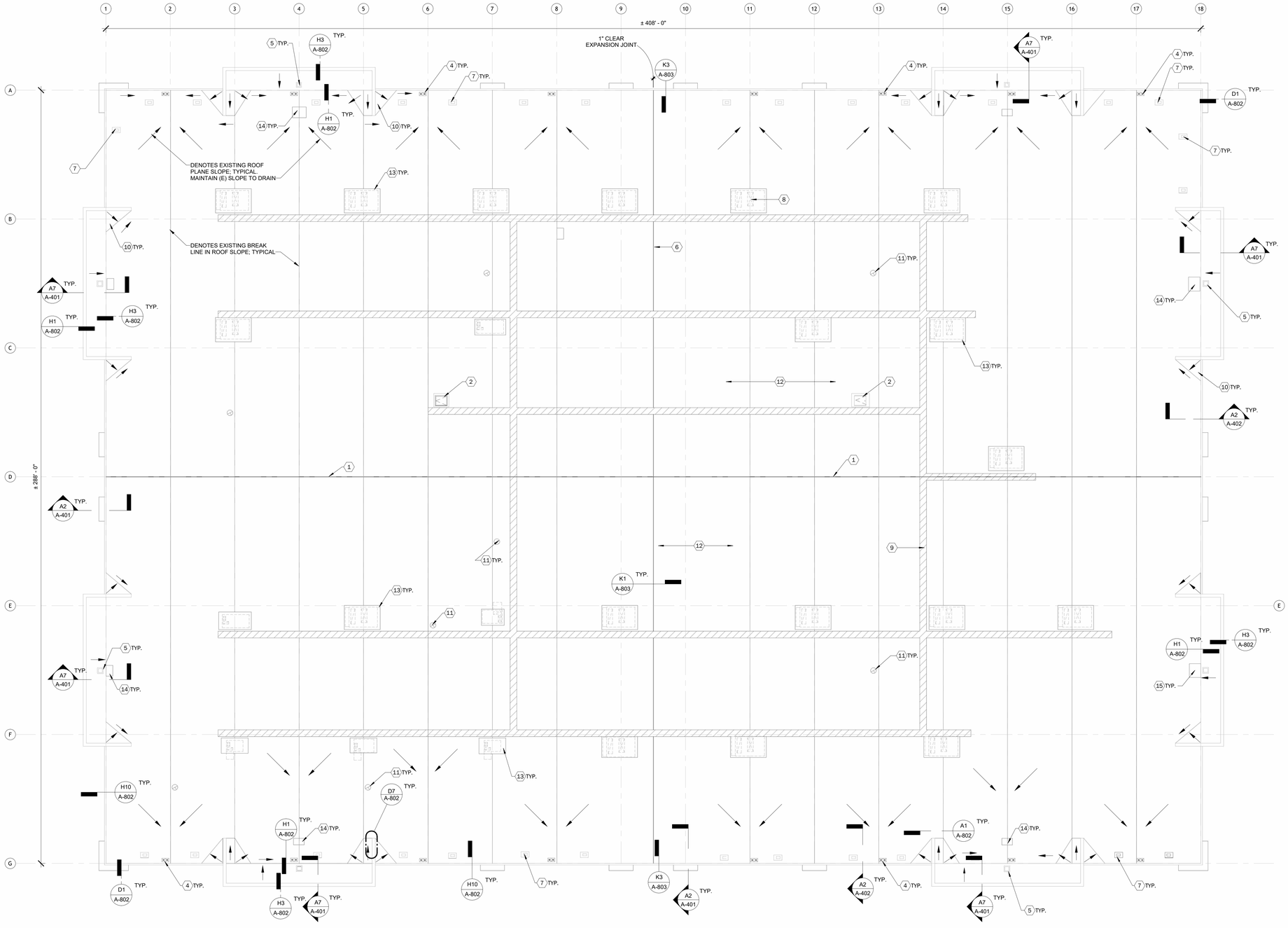
SCALE As indicated

PO #491344

A-202.0

ISSUE DATE	JOB NUMBER
MAY 23, 2024	2024_10
DRAWN BY	CHECKED BY
Author	Checker

10/23/2024 11:37:02 AM
30" X 42"



7

REMOVE COMPOSITION TILE FLASHING ON SIDE WALL. REPLACE COPING. REFER TO H10 / A-802 FOR ADDITIONAL INFORMATION.

4 TYP.

REMOVE COMPOSITION TILE FLASHING ON SIDE WALL. REPLACE COPING. PROVIDE FLASHING ON BRICK VENEER AND STUD WALL TRANSITION. REFER TO D7 / A-802 FOR ADDITIONAL INFORMATION

N

PROPOSED ROOF PLAN

1/16" = 1'-0"

A2

10/23/2024 11:37:07 AM
36" X 48"

ROOF PLAN KEYNOTES:

1. EXISTING RIDGE LINE
2. EXISTING ROOF HATCH. RETAIN PORTION OF MECHANICAL PLATFORM FOR ROOF HATCH ACCESS. SEE D3 / A-802
3. ~~EXISTING TOWER AND CABLE SUPPORT~~ 4
4. EXISTING ROOF DRAIN AND OVERFLOW. REMOVE AND SALVAGE FOR REINSTALLATION AS REQUIRED FOR NEW ROOFING MEMBRANE INSTALLATION. CLEAN, REMOVE DIRT AND GRIMES AND EXTEND TO SURFACE OF NEW MEMBRANE ROOF. REFER TO A10 / A-802 AND D10 / A-802 FOR ADDITIONAL INFORMATION.
5. EXISTING ROOF VENT. PROTECT FROM DAMAGE. INSTALL FLASHING PER MANUFACTURER INSTALLATION INSTRUCTIONS. REFER TO A7 / A-802 FOR ADDITIONAL INFORMATION.
6. EXPANSION JOINT WITH 1" CLEAR
7. EXISTING SOFFIT VENT. REFER TO A7 / A-802 AND A3 / A-803 FOR ADDITIONAL INFORMATION.
8. PROPOSED NEW AIR CONDITIONER DIRECT DRIVE PACKAGE ROOF TYPE UNIT. REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
9. PROPOSED 30" WIDE ROOF WALKWAY PADS. PROVIDE AROUND UNITS CLOSED TO EQUIPMENT AND ACCESS PANELS.
10. EXISTING BUILT-UP CRICKET. REMOVE OR REPAIR AS REQUIRED TO DIRECT WATER TO ROOF DRAIN. TYPICAL ON ALL. 4
11. PROPOSED BUILT-UP CURB FOR FUTURE ROOF MOUNT EXHAUST FAN. REFER TO REFERENCED MECHANICAL PLAN FOR ADDITIONAL INFORMATION.
12. NEW THERMOPLASTIC KEE ROOFING SYSTEM. SEE SPECIFICATIONS. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.
13. PROPOSED BUILT-UP CURB FOR FUTURE ROOF MOUNTED HVAC UNIT. REFER TO A3 / A-802 AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. REFER ALSO TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
14. PROPOSED BUILT-UP CURB FOR FUTURE OUTDOOR UNITS. REFER TO A3 / A-802 AND FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ROOFING

1. VERIFY SIZE, LOCATION AND NUMBER OF ROOF PENETRATIONS INCLUDING VENTS, PIPES, CURBS, ROOF DRAINS, CONDUITS, ETC. PROVIDE NEW FLASHING AND SEAL PENETRATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS.
2. VERIFY AND MAINTAIN ROOF SLOPES AND DRAINAGE PATTERNS. TEST FOR AND CORRECT ANY PONDING CONDITIONS.
3. REPAIR AND REPLACE ROOFING SYSTEM OR STRUCTURE DAMAGED BY IMPROPER STORAGE, CONSTRUCTION ACTIVITIES, OR LACK OF ADEQUATE TEMPORARY PROTECTION.
4. NEW BLOCKING SHALL BE PRESERVATIVE-TREATED WOOD.
5. PAINT EXTERIOR LADDERS, BRACKETS, ETC., UNO
6. CONTRACTOR IS RESPONSIBLE FOR PROTECTION, MODIFICATION AND RE-INSTALLATION OF ALL EXISTING ROOFTOP PIPING, CONDUIT, WIRE AND EQUIPMENT DURING THE ROOF REMOVAL/REPLACEMENT OPERATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, EXTENSIONS OF EXISTING CONDUIT AND PIPING PENETRATIONS TO ACCOMMODATE NEW ROOFING REQUIREMENTS, REPLACEMENT OR MODIFICATION OF EXISTING SLEEPERS, BLOCKING AND SUPPORTS. PROVIDE NEW CONDUIT, CONDUCTORS, UNISTRUT, ETC. AS NECESSARY TO ACCOMMODATE NEW ROOFING REQUIREMENTS.
7. RESEAL AND REINSTALL EQUIPMENTS TO REMAIN.
8. NEW ROOF SYSTEM: INSTALL SINGLE PLY ROOFING SYSTEM, RELATED SHEET METAL FLASHING, WALK PADS ETC. FLASHING INCLUDE BUT NOT LIMITED TO COUNTER FLASHING, CAP FLASHING. NEW ROOF SYSTEM TO SLOPE AS EXISTING.
9. RAISE AND EXTEND SEWER VENTS, VENT STACKS, FLUES, GAS AND OTHER MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS TO A MINIMUM OF 8" ABOVE THE SURFACE OF NEW ROOF. FIELD VERIFY LOCATIONS. REPLACE FLASHING FOR AFFECTED CURBS.

APPROVED
Sep 25 2024
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LICENSED ARCHITECT ROBINA R. WRIGHT NO. C-32283 RENEWAL DATE 06/30/2025 STATE OF CALIFORNIA

CONSULTANT

UPDATE

OCTOBER 21, 2024

4	OWNER REVISIONS	2024 10 21

TITLE

PROPOSED ROOF PLAN

SCALE As indicated

PO #491344

A-202.1

ISSUE DATE	JOB NUMBER
MAY 23, 2024	2024_10
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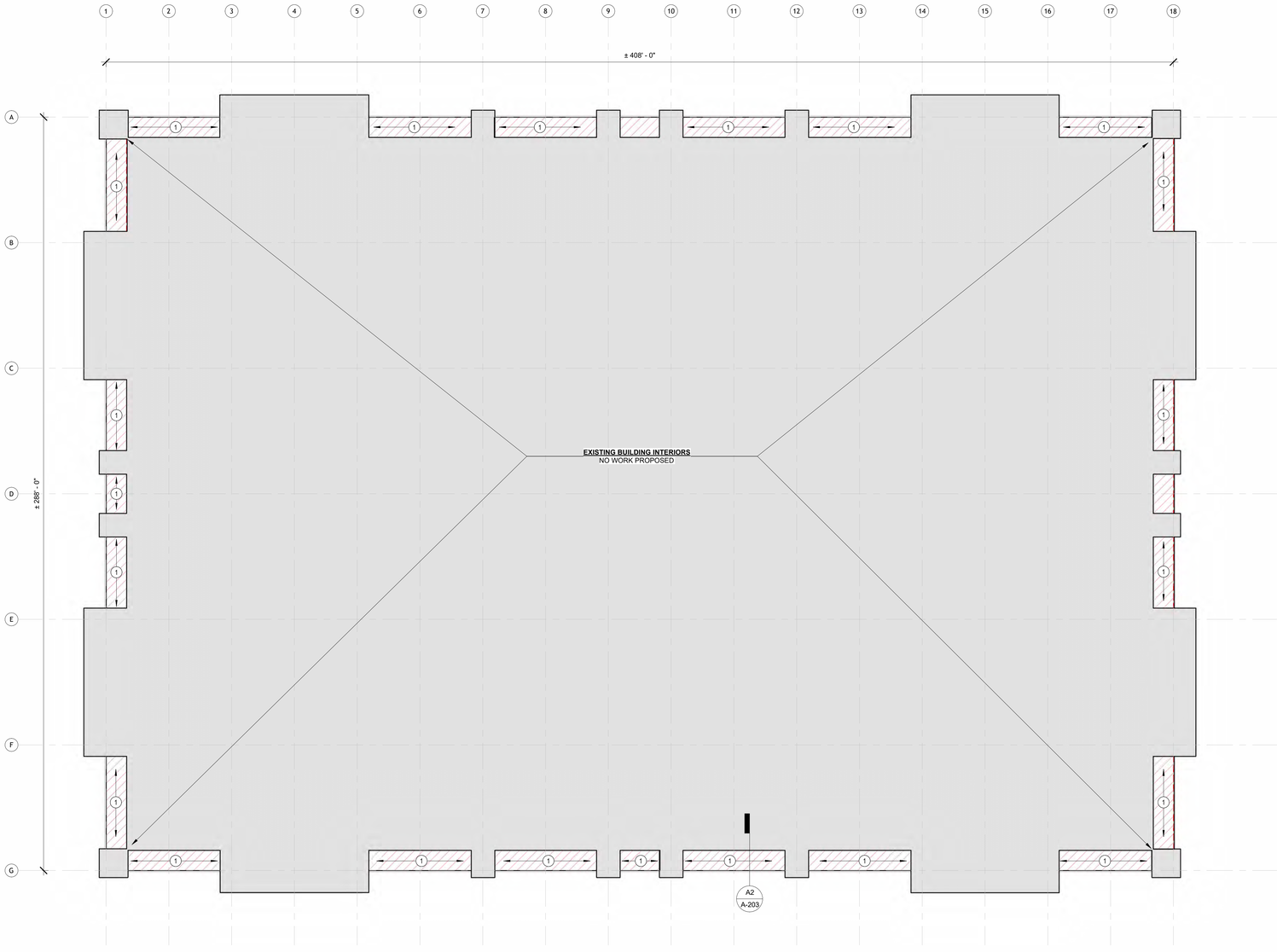
Author	Checker



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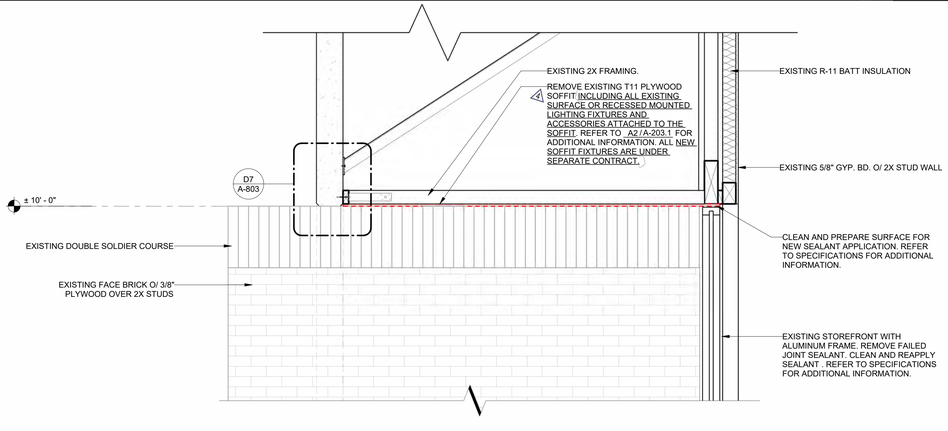
REFLECTED CEILING DEMOLITION PLAN D2
1" = 20'-0"



TYPICAL CEILING DEMO DETAIL A2
3/4" = 1'-0"

REFLECTED CEILING PLAN KEYNOTES:

1. REMOVE T-11 PLYWOOD SOFFIT INCLUDING ALL EXISTING SURFACE OR RECESSED MOUNTED LIGHTING FIXTURES AND ACCESSORIES ATTACHED TO THE SOFFIT .TYPICAL ON PERIMETER SOFFIT. FIELD VERIFY CONDITION OF EXISTING 2X FRAMING AND REPLACE DAMAGED FRAMING WITH D.F. #2 - 2X4 @ 24" O.C. W/ SIMP U24 EACH END.

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TITLE
REFLECTED CEILING DEMOLITION PLAN

SCALE As indicated

PO #491344

A-203

ISSUE DATE	JOB NUMBER
MAY 23, 2024	2024_10
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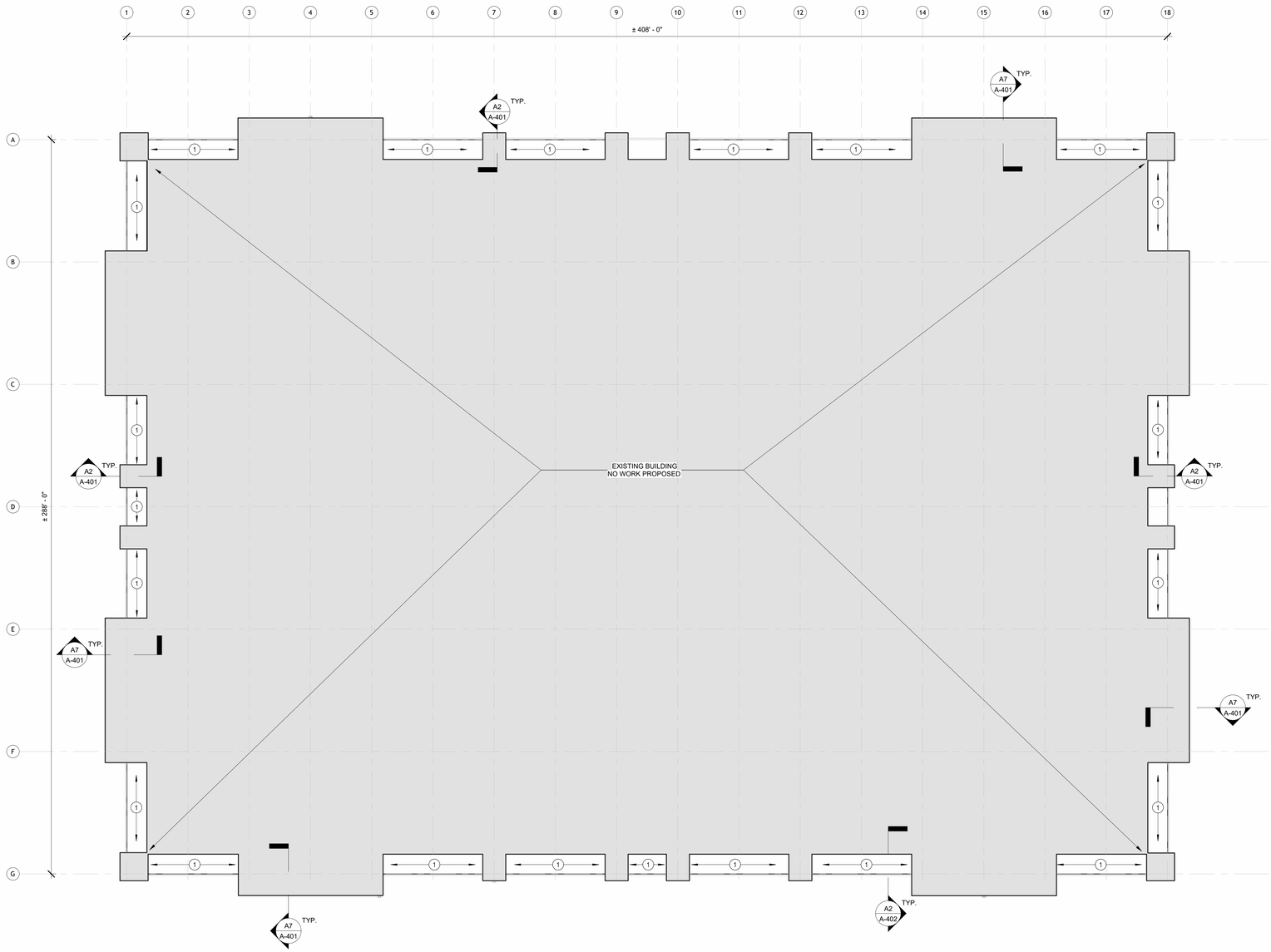
Author	Checker

10/23/2024 11:37:12 AM
30" X 42"



REFLECTED CEILING PLAN KEYNOTES: (#)

1. NEW "JAMES HARDIE - HARDIESOFFIT" FIBER CEMENT VENTED SMOOTH PANEL. REFER TO A7 / A-803 FOR ADDITIONAL INFORMATION.

APPROVED
Sep 25 2024
COUNTY OF FRESNO
DEVELOPMENT SERVICES

N

PROPOSED REFLECTED CEILING PLAN A2
1" = 20'-0"

9/18/2024 6:21:55 PM
30" X 42"

PROJECT
ROOF REPLACEMENT & FACADE REPAIRS

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LICENSED ARCHITECT ★ ROBINA R. WRIGHT ★ NO. C-32283 RENEWAL DATE 06/30/2025 STATE OF CALIFORNIA

CONSULTANT

UPDATE
SEPTEMBER 18, 2024

TITLE
PROPOSED REFLECTED CEILING PLAN

SCALE As indicated

PO #491344

A-203.1

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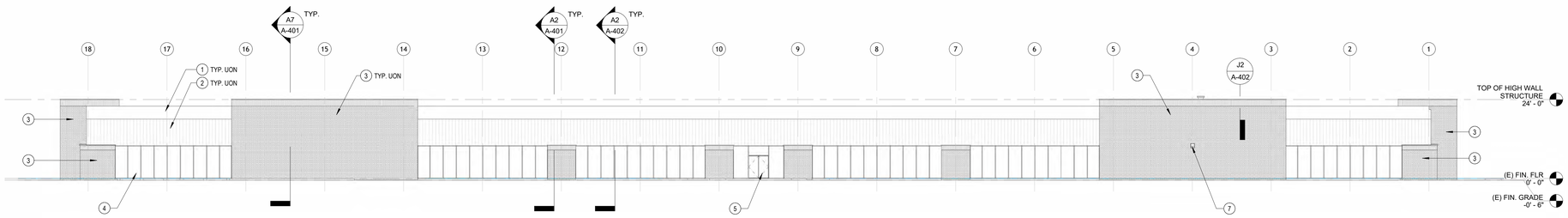
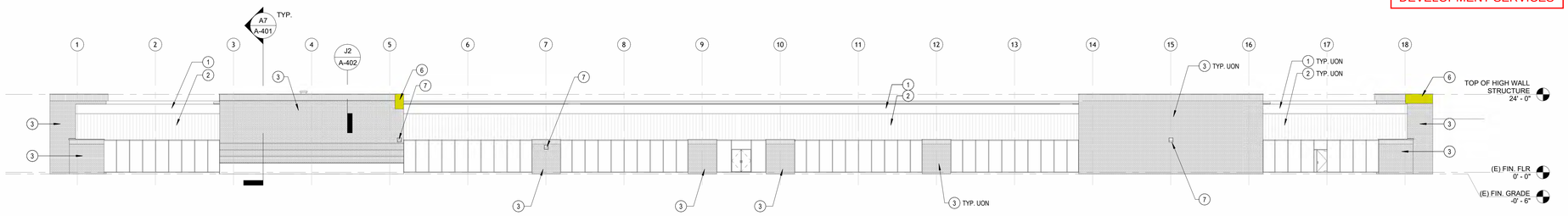
Author	Checker



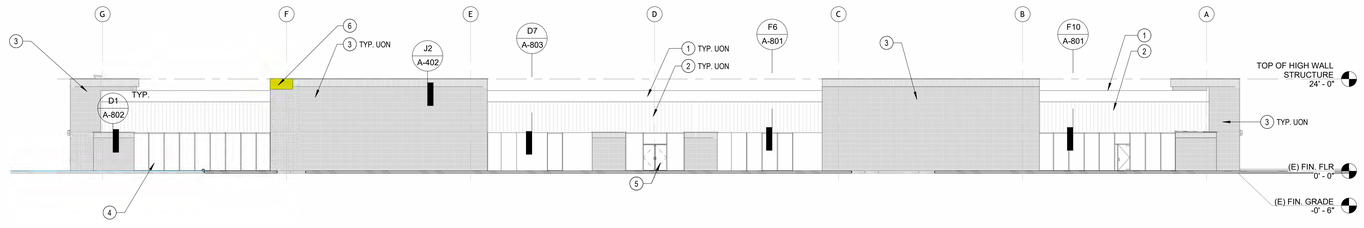
NORTH ELEVATION D2

1/16" = 1'-0"



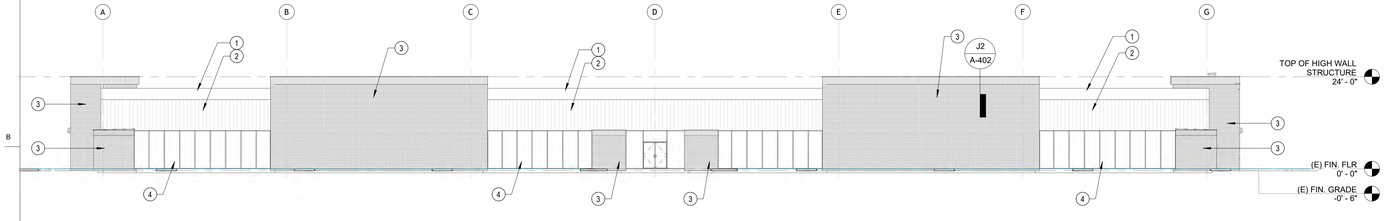
SOUTH ELEVATION A2

1/16" = 1'-0"



EAST ELEVATION J2

1/16" = 1'-0"

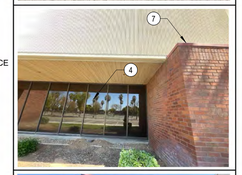


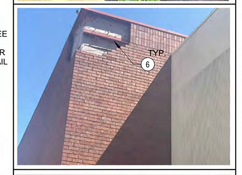
WEST ELEVATION G2

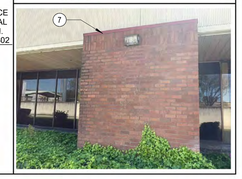
1/16" = 1'-0"

ELEVATION / SECTION KEYNOTES

1. EXISTING SMOOTH CONCRETE SPANDREL. CLEAN AND PREPARE FOR APPLICATION OF NEW TEXCOTE AND NEW PAINT FINISH; TYPICAL.
2. EXISTING CONCRETE SPANDREL WITH RIBBED CONCRETE FORM LINEAR. CLEAN AND PREPARE FOR APPLICATION OF NEW TEXCOTE AND PAINT; TYPICAL.
3. EXISTING BRICK VENEER.
4. EXISTING STOREFRONT SYSTEM
5. EXISTING STOREFRONT SYSTEM ENTRANCE
6. REMOVE AND REPAIR EXISTING BRICK VENEER.SEE C2/A-801 & J2/A-801 FOR ADDITIONAL DETAIL
7. REMOVE / REPLACE FLASHING. TYPICAL ON ALL LOCATION. REFER TO D1/A-802 FOR ADDITIONAL INFORMATION.







GENERAL NOTES

1. REFER TO STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. FIELD VERIFY EXISTING BRICK VENEER CONDITION.
   A. IDENTIFY AND PATCH ALL CRACKS IN THE EXISTING BRICK VENEER USING APPROPRIATE MATERIALS AND METHODS TO ENSURE A SEAMLESS REPAIR.
   B. REPOINT EXISTING MORTAR JOINTS WHERE NECESSARY TO RESTORE THE INTEGRITY AND APPEARANCE OF THE BRICK VENEER. MATCH THE COLOR, TEXTURE, AND COMPOSITION OF THE EXISTING MORTAR.
   C. REPAIR ANY DAMAGED BRICKS IN THE VENEER. USE BRICKS THAT MATCH THE EXISTING IN SIZE, COLOR, AND TEXTURE TO MAINTAIN A UNIFORM APPEARANCE.
   D. REPLACE ANY MISSING BRICKS WITH NEW BRICKS THAT MATCH THE EXISTING ONES IN SIZE, COLOR, AND TEXTURE. ENSURE REPLACEMENTS ARE PROPERLY INTEGRATED INTO THE EXISTING VENEER.
   E. IDENTIFY AND REMOVE ALL DAMAGED SECTIONS OF THE SHEET MEMBRANE WATERPROOFING. CLEAN AND PREPARE THE UNDERLYING SURFACES TO ENSURE PROPER ADHESION OF THE NEW WATERPROOFING MATERIAL. APPLY NEW SHEET MEMBRANE WATERPROOFING AS PER MANUFACTURER 'S SPECIFICATIONS AND ENSURE ALL SEAMS AND JOINTS ARE PROPERLY SEALED TO PROVIDE A CONTINUOUS, WATERTIGHT BARRIER.
3. EXISTING WINDOWS TO REMAIN. ALL WINDOW MODIFICATIONS, REPAIRS AND/OR REPLACEMENTSINCLUDING REPLACEMENT OF WEATHERSTRIPPING, SEALANTS AND CAULKING WILL BE UNDER A SEPARATE CONTRACT.
4. FIELD VERIFY ALL EXISTING EXTERIOR JOINTS AND JUNCTIONS OF DIFFERING MATERIALS, INCLUDING BUT NOT LIMITED TO INTERSECTIONS OF BRICK AND CONCRETE WALLS. CLEAN AND PREPARE SURFACES THOROUGHLY. APPLY NEW SEALANT AS REQUIRED TO ENSURE A WATERTIGHT ASSEMBLY.
5. SEALANT AT MATERIAL INTERSECTIONS: PROVIDE APPROPRIATE SEALANT AT ALL INTERSECTIONS OF DIFFERENT MATERIALS TO ENSURE A WATERTIGHT AND DURABLE CONNECTION. USE SEALANTS THAT ARE COMPATIBLE WITH ALL ADJOINING MATERIALS AND MATCH THE COLOR AND TEXTURE OF THE SURROUNDING AREAS.
6. UPON COMPLETION OF ALL REPAIRS, CONDUCT A THOROUGH INSPECTION TO ENSURE ALL WORK HAS BEEN COMPLETED SATISFACTORILY AND THAT THE BRICK VENEER FINISH HAS BEEN RESTORED TO ITS ORIGINAL CONDITION OR BETTER.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

EDGE OF BUILDING — 5 SF L / 12 SF R — A3

EDGE OF BUILDING — 15 SF L / 5 SF R — A5

EDGE OF BUILDING — 25 SF L / R 25 SF — A14

EDGE OF BUILDING — 10 SF L / 5 SF R — A16

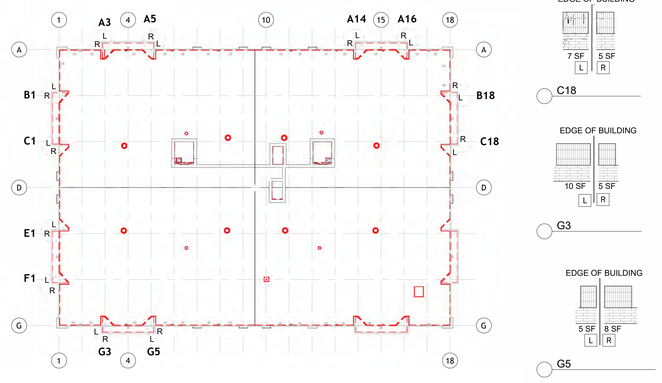
EDGE OF BUILDING — 30 SF L / 8 SF R — B1

EDGE OF BUILDING — 5 SF L / 6 SF R — B18 — 3/16" = 1'-0"

EDGE OF BUILDING — 5 SF L / 8 SF R — C1

EDGE OF BUILDING — 5 SF L / 6 SF R — E1

EDGE OF BUILDING — 5 SF L / 9 SF R — F1



EDGE OF BUILDING — 7 SF L / 5 SF R — C18

EDGE OF BUILDING — 10 SF L / 5 SF R — G3

EDGE OF BUILDING — 5 SF L / 8 SF R — G5

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LICENSED ARCHITECT — ROBINA R. WRIGHT — NO. C-32283 — RENEWAL DATE 06/30/2025 — STATE OF CALIFORNIA

CONSULTANT

UPDATE

OCTOBER 21, 2024

4	OWNER REVISIONS	2024 10 21

TITLE

ELEVATIONS

SCALE: As indicated

PO #491344

A-301

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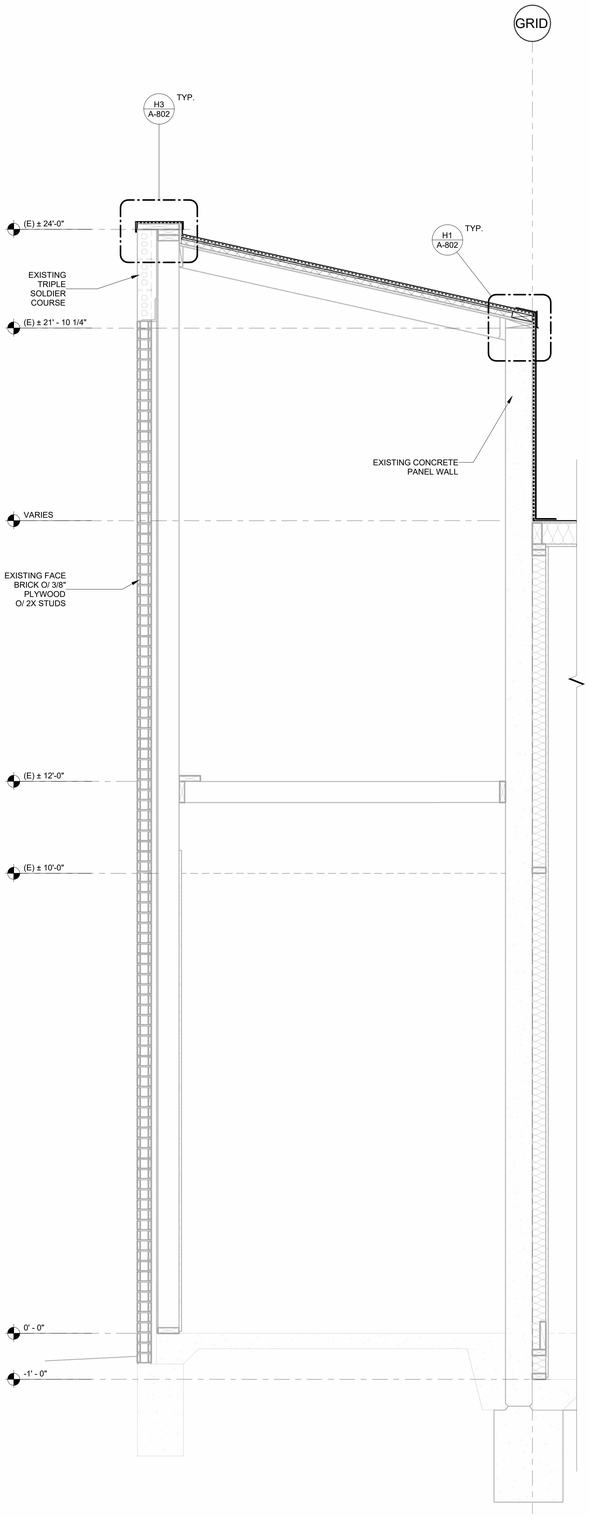
MAY 23, 2024	2024_10
DRAWN BY	CHECKED BY
Author	Checker

ROOF PLAN - ADD'L BRICK REPAIR G10

1/64" = 1'-0"

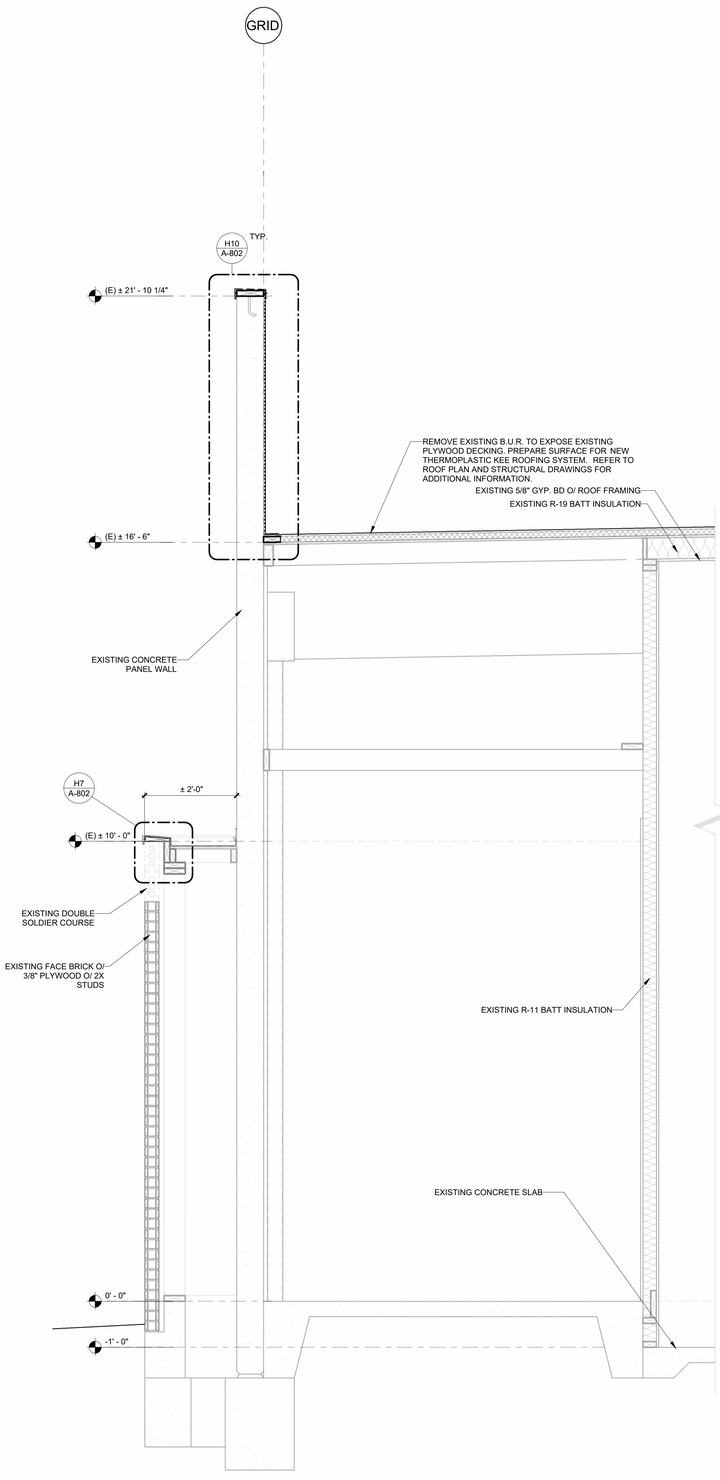
10/23/2024 11:37:17 AM
30" X 42"



TYPICAL WALL SECTION B

3/4" = 1'-0"

A7



TYPICAL WALL SECTION E

3/4" = 1'-0"

A2

GENERAL NOTES

1. REFER TO STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. FIELD VERIFY EXISTING BRICK VENEER CONDITION.
   A. IDENTIFY AND PATCH ALL CRACKS IN THE EXISTING BRICK VENEER USING APPROPRIATE MATERIALS AND METHODS TO ENSURE A SEAMLESS REPAIR.
   B. REPOINT EXISTING MORTAR JOINTS WHERE NECESSARY TO RESTORE THE INTEGRITY AND APPEARANCE OF THE BRICK VENEER. MATCH THE COLOR, TEXTURE, AND COMPOSITION OF THE EXISTING MORTAR.
   C. REPAIR ANY DAMAGED BRICKS IN THE VENEER. USE BRICKS THAT MATCH THE EXISTING IN SIZE, COLOR, AND TEXTURE TO MAINTAIN A UNIFORM APPEARANCE.
   D. REPLACE ANY MISSING BRICKS WITH NEW BRICKS THAT MATCH THE EXISTING ONES IN SIZE, COLOR, AND TEXTURE. ENSURE REPLACEMENTS ARE PROPERLY INTEGRATED INTO THE EXISTING VENEER.
   E. IDENTIFY AND REMOVE ALL DAMAGED SECTIONS OF THE SHEET MEMBRANE WATERPROOFING. CLEAN AND PREPARE THE UNDERLYING SURFACES TO ENSURE PROPER ADHESION OF THE NEW WATERPROOFING MATERIAL. APPLY NEW SHEET MEMBRANE WATERPROOFING AS PER MANUFACTURER 'S SPECIFICATIONS AND ENSURE ALL SEAMS AND JOINTS ARE PROPERLY SEALED TO PROVIDE A CONTINUOUS, WATERTIGHT BARRIER.
3. EXISTING WINDOWS TO REMAIN. ALL WINDOW MODIFICATIONS, REPAIRS AND/OR REPLACEMENTSINCLUDING REPLACEMENT OF WEATHERSTRIPPING, SEALANTS AND CAULKING WILL BE UNDER A SEPARATE CONTRACT.
4. FIELD VERIFY ALL EXISTING EXTERIOR JOINTS AND JUNCTIONS OF DIFFERING MATERIALS, INCLUDING BUT NOT LIMITED TO INTERSECTIONS OF BRICK AND CONCRETE WALLS. CLEAN AND PREPARE SURFACES THOROUGHLY. APPLY NEW SEALANT AS REQUIRED TO ENSURE A WATERTIGHT ASSEMBLY.
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6. UPON COMPLETION OF ALL REPAIRS, CONDUCT A THOROUGH INSPECTION TO ENSURE ALL WORK HAS BEEN COMPLETED SATISFACTORILY AND THAT THE BRICK VENEER FINISH HAS BEEN RESTORED TO ITS ORIGINAL CONDITION OR BETTER.
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CONSULTANT

UPDATE
OCTOBER 21, 2024

TITLE

WALL SECTIONS

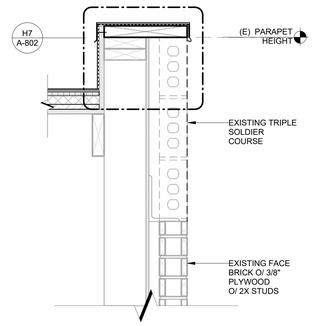
SCALE As indicated

PO #491344

A-401

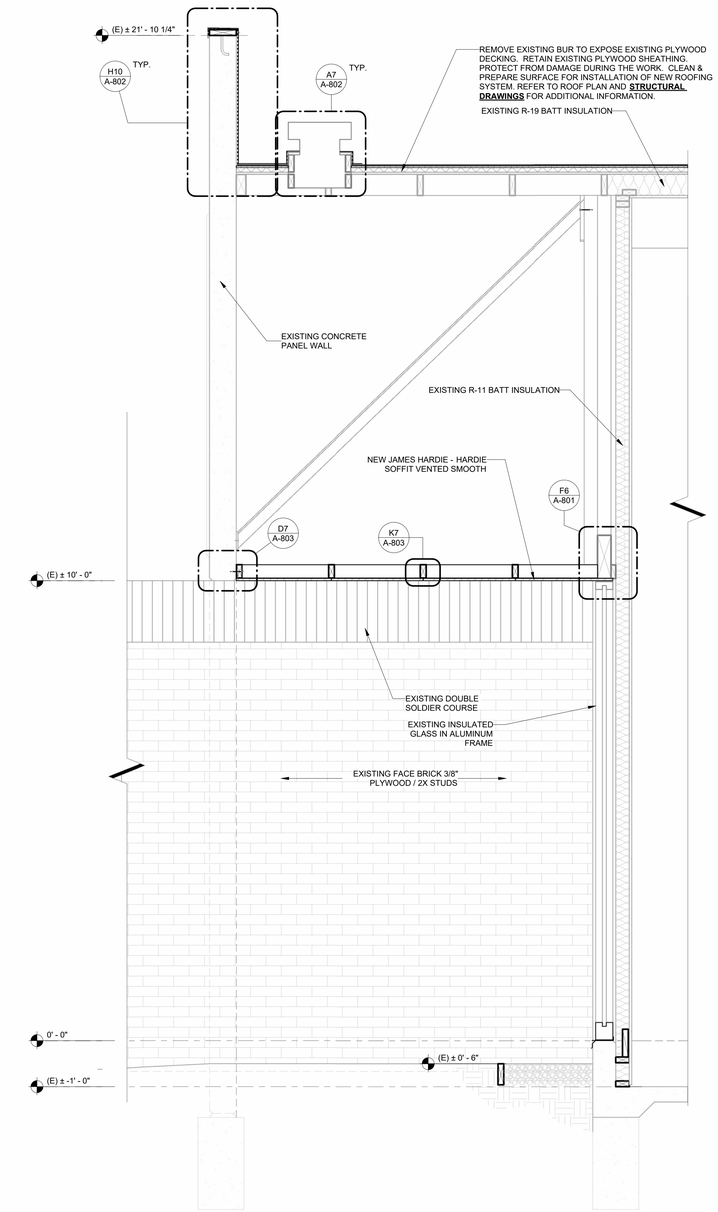
ISSUE DATE	JOB NUMBER
MAY 23, 2024	2024_10
DRAWN BY	CHECKED BY
Author	Checker

10/23/2024 11:37:21 AM
30" X 42"



DETAIL AT EXISTING PARAPET J2

1 1/2" = 1'-0"



TYPICAL WALL SECTION D A2

3/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. FIELD VERIFY EXISTING BRICK VENEER CONDITION.
   - A. IDENTIFY AND PATCH ALL CRACKS IN THE EXISTING BRICK VENEER USING APPROPRIATE MATERIALS AND METHODS TO ENSURE A SEAMLESS REPAIR.
   - B. REPOINT EXISTING MORTAR JOINTS WHERE NECESSARY TO RESTORE THE INTEGRITY AND APPEARANCE OF THE BRICK VENEER. MATCH THE COLOR, TEXTURE, AND COMPOSITION OF THE EXISTING MORTAR.
   - C. REPAIR ANY DAMAGED BRICKS IN THE VENEER. USE BRICKS THAT MATCH THE EXISTING IN SIZE, COLOR, AND TEXTURE TO MAINTAIN A UNIFORM APPEARANCE.
   - D. REPLACE ANY MISSING BRICKS WITH NEW BRICKS THAT MATCH THE EXISTING ONES IN SIZE, COLOR, AND TEXTURE. ENSURE REPLACEMENTS ARE PROPERLY INTEGRATED INTO THE EXISTING VENEER.
   - E. IDENTIFY AND REMOVE ALL DAMAGED SECTIONS OF THE SHEET MEMBRANE WATERPROOFING. CLEAN AND PREPARE THE UNDERLYING SURFACES TO ENSURE PROPER ADHESION OF THE NEW WATERPROOFING MATERIAL. APPLY NEW SHEET MEMBRANE WATERPROOFING AS PER MANUFACTURER 'S SPECIFICATIONS AND ENSURE ALL SEAMS AND JOINTS ARE PROPERLY SEALED TO PROVIDE A CONTINUOUS, WATERTIGHT BARRIER.
3. EXISTING WINDOWS TO REMAIN. ALL WINDOW MODIFICATIONS, REPAIRS AND/OR REPLACEMENTSINCLUDING REPLACEMENT OF WEATHERSTRIPPING, SEALANTS AND CAULKING WILL BE UNDER A SEPARATE CONTRACT.
4. FIELD VERIFY ALL EXISTING EXTERIOR JOINTS AND JUNCTIONS OF DIFFERING MATERIALS, INCLUDING BUT NOT LIMITED TO INTERSECTIONS OF BRICK AND CONCRETE WALLS. CLEAN AND PREPARE SURFACES THOROUGHLY. APPLY NEW SEALANT AS REQUIRED TO ENSURE A WATERTIGHT ASSEMBLY.
5. SEALANT AT MATERIAL INTERSECTIONS: PROVIDE APPROPRIATE SEALANT AT ALL INTERSECTIONS OF DIFFERENT MATERIALS TO ENSURE A WATERTIGHT AND DURABLE CONNECTION. USE SEALANTS THAT ARE COMPATIBLE WITH ALL ADJOINING MATERIALS AND MATCH THE COLOR AND TEXTURE OF THE SURROUNDING AREAS.
6. UPON COMPLETION OF ALL REPAIRS, CONDUCT A THOROUGH INSPECTION TO ENSURE ALL WORK HAS BEEN COMPLETED SATISFACTORILY AND THAT THE BRICK VENEER FINISH HAS BEEN RESTORED TO ITS ORIGINAL CONDITION OR BETTER.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

APPROVED
Sep 25 2024
COUNTY OF FRESNO
DEVELOPMENT SERVICES

PROJECT

ROOF REPLACEMENT & FACADE REPAIRS

5555 E Olive Avenue, Fresno, CA 93727

CLIENT

THE COUNTY OF FRESNO 1856

ARCHITECT

ROBINA WRIGHT
Architect & Associates, Inc.
M.S. ARCHITECTURE, CERTIFIED ACCESS SPECIALIST, NCARB
LIC. # 32283

448 EAST OLIVE AVENUE
FRESNO, CA. 93728
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SEAL & SIGNATURE

LICENSED ARCHITECT ROBINA R. WRIGHT STATE OF CALIFORNIA
NO. C-32283
RENEWAL DATE 06/30/2025

CONSULTANT

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A-402

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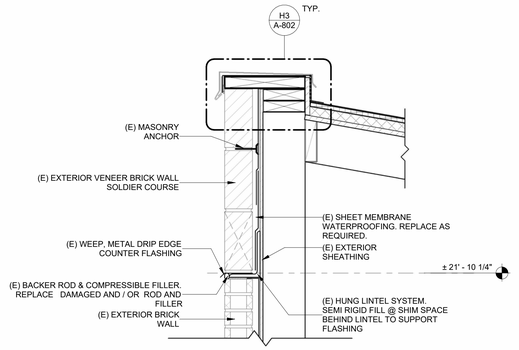
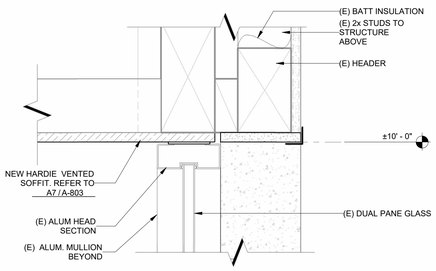
10/23/2024 11:37:25 AM
30" X 42"

DETAIL - REMOVED

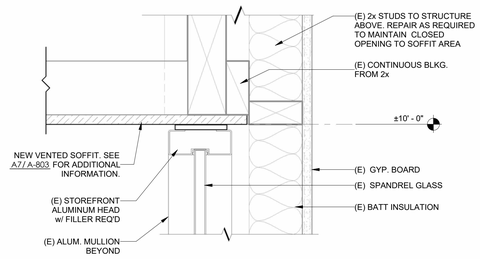
DETAIL - REMOVED



(E) BRICK VENEER PARAPET DETAIL J2
1 1/2" = 1'-0"



(E) HEAD @ DUAL PANE GLASS F10
3" = 1'-0"

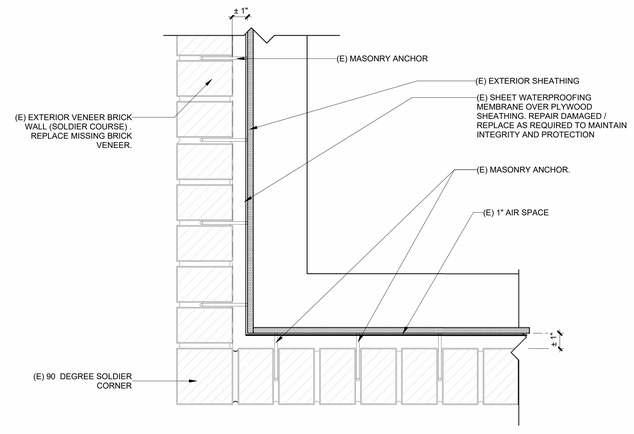


(E) TYP. HEAD @ WINDOW WALL F6
3" = 1'-0"

DETAIL - REMOVED

DETAIL - REMOVED

DETAIL - REMOVED



(E) SOLDER COURSE BRICKWORK @ CORNER C2
3" = 1'-0"

DETAIL - REMOVED

DETAIL - REMOVED

DETAIL - REMOVED

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ROBINA R. WRIGHT
NO. C-32283
RENEWAL DATE
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STATE OF CALIFORNIA

CONSULTANT

UPDATE
OCTOBER 21, 2024

4	OWNER REVISIONS	2024 10 21

TITLE
ARCHITECTURAL DETAILS

SCALE As indicated

PO #491344

A-801

ISSUE DATE	JOB NUMBER
MAY 23, 2024	2024_10
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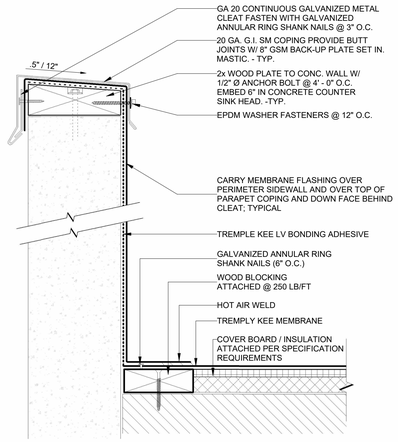
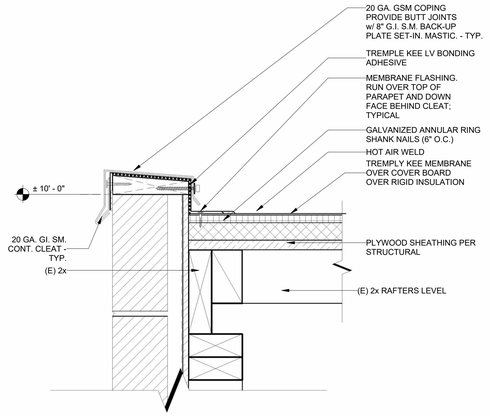
10/23/2024 11:37:29 AM
30" X 42"



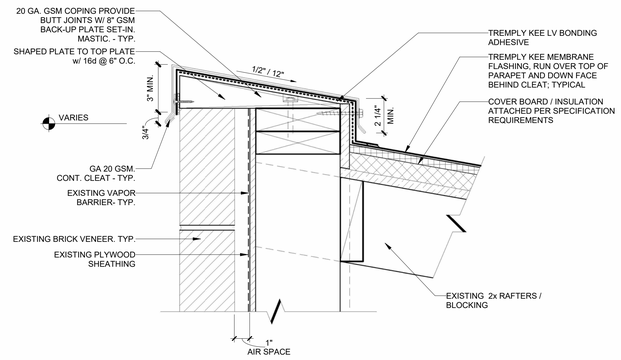
WALL FLASHING WITH METAL CAP FLASHING H10

3" = 1'-0"



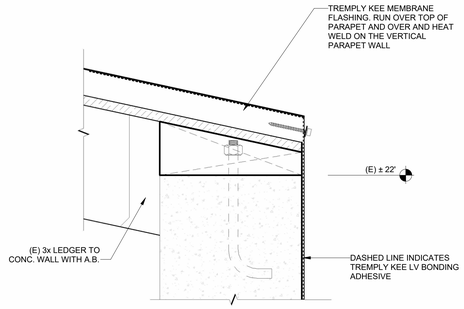
ROOF EDGE FLASHING 2 H7

3" = 1'-0"



METAL COPING DETAIL H3

3" = 1'-0"



ROOF EDGE FLASHING H1

3" = 1'-0"

OVER FLOW DRAIN D10

3" = 1'-0"

NOTE:
SEE H3 / A-802 FOR ADDITIONAL INFORMATION

BRICK VENEER / STUD WALL FLASHING D7

3" = 1'-0"

ROOF HATCH D3

3" = 1'-0"

WALL / ROOF FLASHING D1

3" = 1'-0"

NOTE: CENTER THE DRAIN IN THE MIDDLE OF THE FIELD SHEET. MINIMUM WIDTH OF FIELD SHEET IS 74" AND SECURE AT 12" FROM DRAIN CENTER.

ROOF DRAIN A10

3" = 1'-0"

SOFFIT VENTING FLASHING DETAIL A7

3" = 1'-0"

MECHANICAL PLATFORM FLASHING DETAIL A3

3" = 1'-0"

METAL CAP AT WALL END A1

3" = 1'-0"

APPROVED
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SEPTEMBER 18, 2024

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SCALE 3" = 1'-0"

PO #491344

A-802

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9/18/2024 6:22:19 PM
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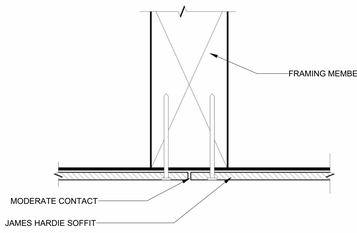


FIGURE 1

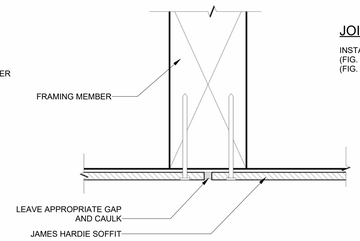
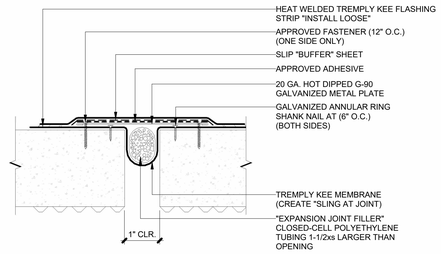


FIGURE 2

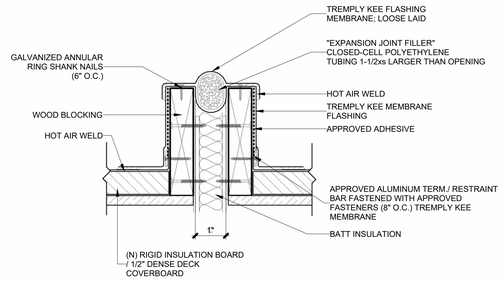
JOINTING METHODS

INSTALL PANELS IN MODERATE CONTACT AT ENDS (FIG. 1), OR LEAVE APPROPRIATE GAP AND CAULKING (FIG. 2)

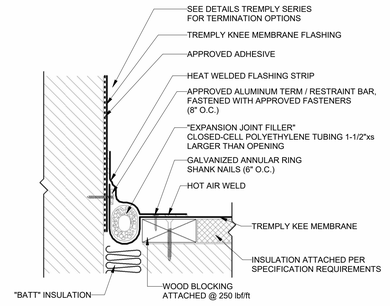
JOINTING METHODS 6" = 1'-0" **K7**



VERTICAL EXPANSION JOINT 3" = 1'-0" **K3**



HORIZ. EXPANSION JOINT 3" = 1'-0" **K1**



HORIZONTAL TO VERTICAL EXPANSION JOIST 3" = 1'-0" **G1**

FIGURE 3
LESS THAN OR EQUAL TO 12" WIDE SOFFIT

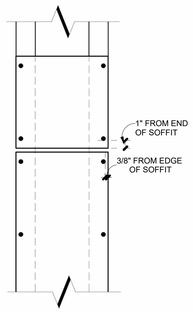
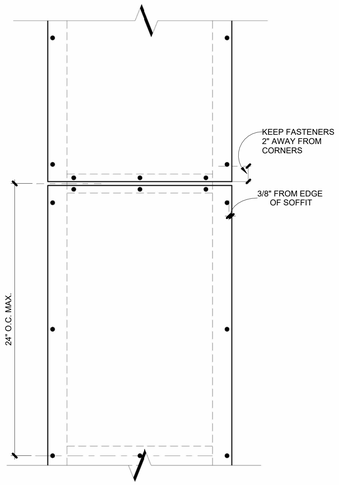


FIGURE 4
GREATER THAN 12" WIDE SOFFIT



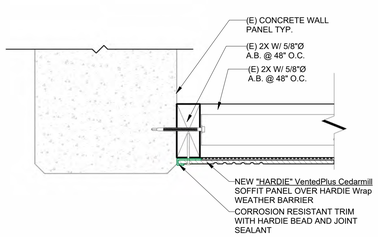
FASTENER POSITIONING

POSITION FASTENERS 3/8" FROM PANEL EDGES AND NO CLOSER THAN 2" AWAY FROM CORNERS WHEN USING SOFFIT GREATER 12" WIDE (FIG. 4) AND NO CLOSER THAN 1" AWAY FROM CORNERS WHEN USING SOFFIT THAT IS NOT LESS THAN OR EQUAL TO 12" WIDE (FIG3).

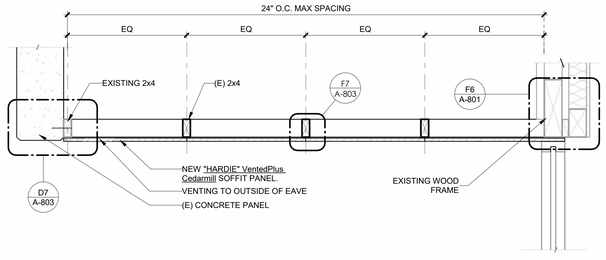
FASTENER REQUIREMENTS

- FOR WOOD FRAME CONSTRUCTION A MINIMUM 4D COMMON NAILS SPACED 8" O.C. AT PANEL EDGES AND INTERMEDIATE FRAMING MEMBERS SPACED UP TO 24" ON CENTER ARE SUITABLE IN MOST LOCATIONS"
- FOR CONVENTIONAL 20GA - 16GA STEEL FRAME CONSTRUCTION A MINIMUM NO. 8-18 X 0.323" HD X 1" LONG RIBBED BUGLE SCREWS SPACED 6" O.C. AT PANEL EDGES AND INTERMEDIATE FRAMING MEMBERS SPACED UP TO 24" ON CENTER ARE SUITABLE IN MOST LOCATIONS.

FASTENER POSITIONING 1 1/2" = 1'-0" **F7**



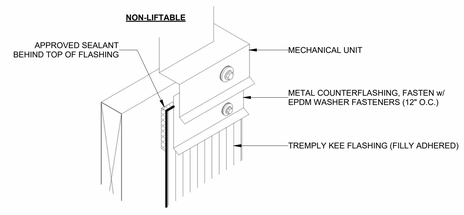
TYPICAL SOFFIT DETAIL 3" = 1'-0" **D7**

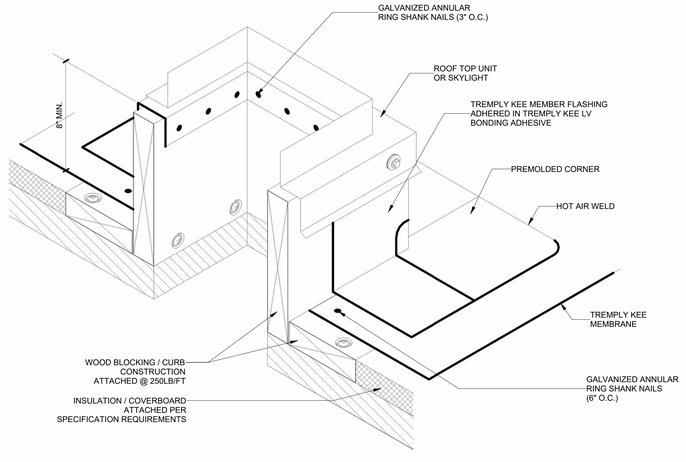


INSTALLATION

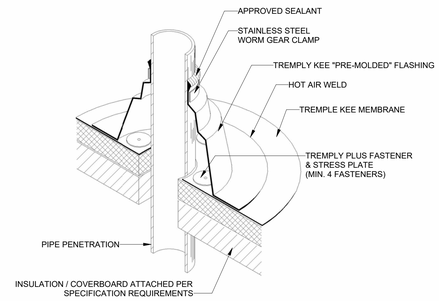
- HARDIESOFFIT PANELS MUST BE FASTENED TO A SOLID, NAILABLE SUBSTRATE SUCH AS A WOOD 2X SUBFASCIA.
- ADDITIONAL FRAMING MAY BE NEEDED TO ENSURE PROPER FASTENING.
- SOFFITS CAN BE INSTALLED AS SHOWN IN FIGURE 1. POSITION THE VENT HOLES TOWARD THE OUTSIDE OF THE EAVE FOR OPTIMAL AIRFLOW.
- 12" TO 24" WIDE VENTED HARDIESOFFIT PANELS, PROVIDE 5.0 SQUARE INCHES OF NET FREE VENTILATION PER LINEAL FOOT.
- ALTERNATIVELY VENTS CAN BE INSTALLED INTO NON-VENTED SOFFIT.
- IF NECESSARY, AN INSECT SCREEN CAN BE INSTALLED USING CONSTRUCTION ADHESIVE. NOTE: NET FREE VENTILATION WILL BE REDUCED.

TYPICAL SECTION AT SOFFIT 1" = 1'-0" **A7**

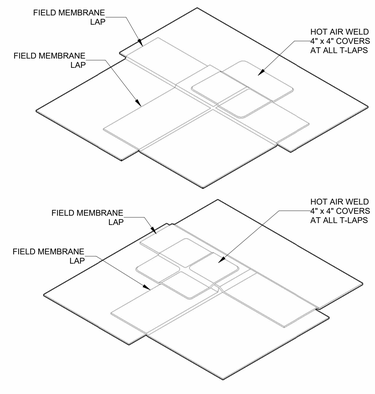




TYP. WOOD OR SKYLIGHT CURB FLASHING 3" = 1'-0" **A3**



PRE-MOLDED PIPE FLASHING 3" = 1'-0" **D1**



TYP. COVERS AT MEMBRANE T-LAPS 3" = 1'-0" **A1**

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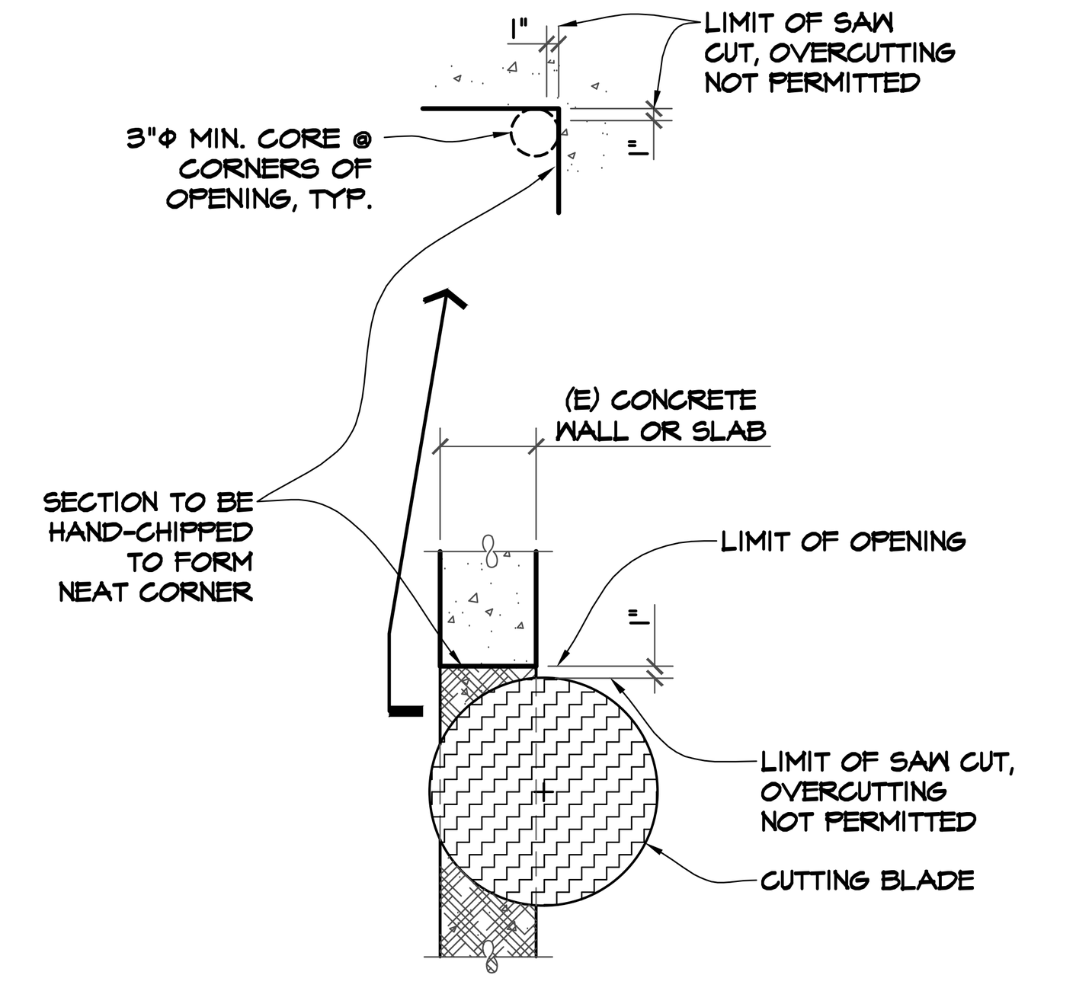
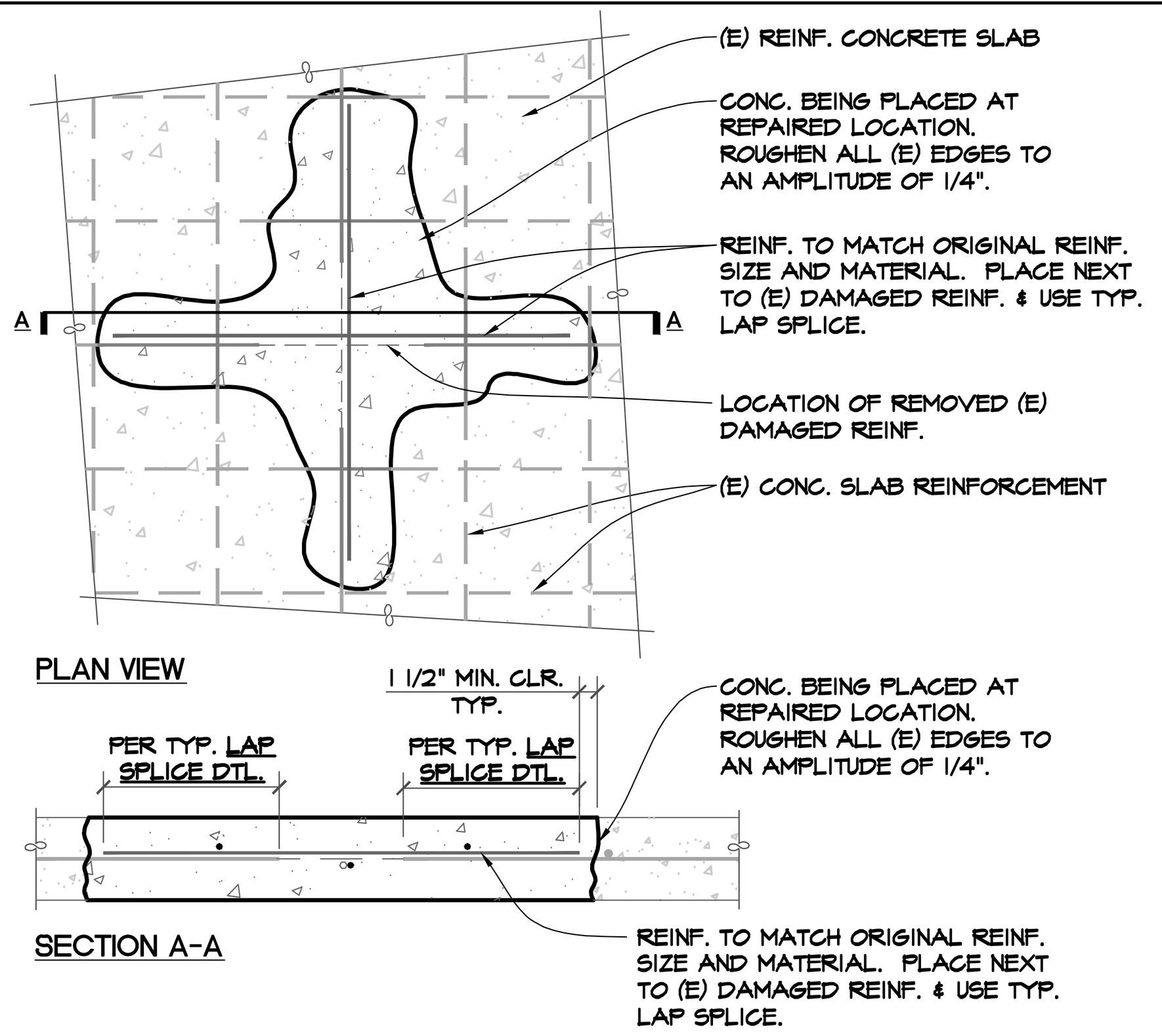


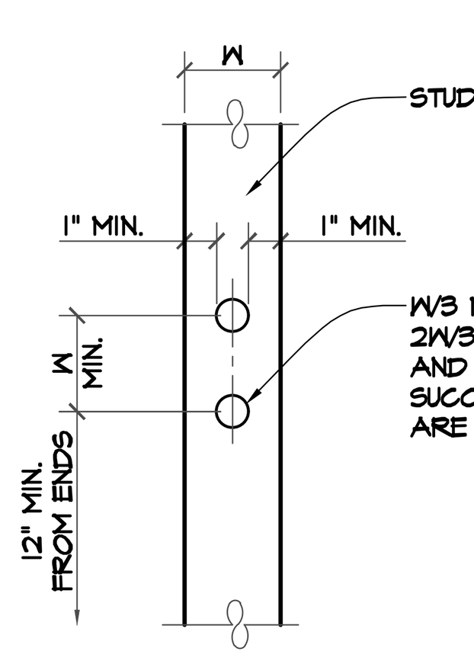
11 SAW CUTTING
IN CONCRETE SCALE: N.T.S.



12 (E) REINF. CONC. SLAB REPAIR
- SCALE: N.T.S.

A.B.	ANCHOR BOLT	HSS	HOLLOW STRUCTURAL SECTION
ABV.	ABOVE	HT.	HEIGHT
A.C.I.	AMERICAN CONCRETE INSTITUTE	I.B.C.	INTERNATIONAL BUILDING CODE
ADDL.	ADDITIONAL	I.C.C.	INTERNATIONAL CODE COUNCIL
A.E.S.	ARCHITECTURAL EXPOSED STEEL	IN	INCH
A.F.P.A.	AMERICAN FOREST AND PAPER ASSOCIATION	I.D.	INSIDE DIAMETER
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	INT.	INTERIOR
A.I.T.C.	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	I.R.	INTERPRETATION OF REGULATIONS
ALT.	ALTERNATE	JST.	JOIST
A.P.A.	AMERICAN PLYWOOD ASSOCIATION	K	KIPS
ARCH.	ARCHITECT(URAL)	KSI	KIPS PER SQUARE INCH
A.S.C.E.	AMERICAN SOCIETY OF CIVIL ENGINEERS	L	ANGLE
A.S.T.M.	AMERICAN SOCIETY FOR TESTING & MATERIALS	LBS, #	POUNDS (XXX LBS, XXX#)
A.W.S.	AMERICAN WELDING SOCIETY	LL	LIVE LOAD
BLDG.	BUILDING	LLV(LLH)	LONG LEG VERTICAL (HORIZ.)
BLK., BLKG.	BLOCK, BLOCKING	LOC.	LOCATION
BM.	BEAM	LSL	LAMINATED STRAND LUMBER
B.O.	BOTTOM OF	LT. WT.	LIGHT WEIGHT
BOT.	BOTTOM	LVL	LAMINATED VENEER LUMBER
C	CHANNEL	MAS.	MASONRY
C.B.C.	CALIFORNIA BUILDING CODE	MAX.	MAXIMUM
CDX	C-D EXPOSURE 1	M.B.	MACHINE BOLT
C.J.	CONSTRUCTION JOINT	MFR	MANUFACTURER
CL	CENTERLINE	MIN.	MINIMUM
CLG.	CEILING	M.S.R.	MACHINE STRESS RATED
CLR.	CLEAR	MTL.	METAL
C.M.U.	CONCRETE MASONRY UNIT	(N)	NEW
COL.	COLUMN	NO., #	NUMBER, (NO. XX, #XX)
CONC.	CONCRETE	N.T.S.	NOT TO SCALE
CONN.	CONNECTION	O/, o/	OVER
CONT.	CONTINUOUS	O.C.	ON CENTER
CTSK.	COUNTERSINK	O.D.	OUTSIDE DIAMETER
d	PENNY NAILS	O.H.	OPPOSITE HAND
DBL.	DOUBLE	OPNG.	OPENING
DEMO.	DEMOLISH	OP.	OPPOSITE
DET., DTL.	DETAIL	OSB	ORIENTED STRAND BOARD
DF	DOUGLAS FIR	O.S.H.P.D.	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
DIA., Φ	DIAMETER	PL.	PLATE
DIAG.	DIAGONAL	P.T.	PRESSURE TREATED
DIM.	DIMENSION	PLYWD.	PLYWOOD
DL	DEAD LOAD	PSF	POUNDS PER SQUARE FOOT
DO	DITTO / DO OVER	PSI	POUNDS PER SQUARE INCH
DP	DEEP	REINF.	REINFORCING
D.S.A.	DEPARTMENT OF STATE ARCHITECT	REQD.	REQUIRED
DWG	DRAWING	RM.	ROOM
(E)	EXISTING	SCHED.	SCHEDULE
EA.	EACH	SHTG.	SHEATHING
ELEV.	ELEVATION	SHT.	SHEET
E.N.	EDGE NAILING	SIM.	SIMILAR
ENGR.	ENGINEER	SMS	SHEET METAL SCREWS
EQ.	EQUAL	SPEC.	SPECIFICATION
EQUIP.	EQUIPMENT	SQ.	SQUARE
EXP.	EXPANSION	STGR.	STAGGER
E.W.	EACH WAY	STD.	STANDARD
FDN.	FOUNDATION	STIFF.	STIFFENER
F.E.M.A.	FEDERAL EMERGENCY MANAGEMENT AGENCY	STL.	STEEL
F.F.	FINISH FLOOR	STRUCT.	STRUCTURAL
FIN.	FINISH	SYM.	SYMMETRICAL
FLR.	FLOOR	T&B	TOP AND BOTTOM
F.N.	FIELD NAILING	T&G	TONGUE AND GROOVE
FRMG.	FRAMING	THK.	THICK
FT., FTG.	FOOT, FOOTING	TL	TOTAL LOAD
F.V.	FIELD VERIFY	T.O.	TOP OF
GA.	GAUGE	TYP.	TYPICAL
GALV.	GALVANIZED	U.N.O., U.O.N.	UNLESS NOTED OTHERWISE
GLB	GLUE LAMINATED BEAM	VERT.	VERTICAL
H.D.	HOLDOWN	W, W/O	WITH, WITH OUT
HDR.	HEADER	WD	WOOD
HGR.	HANGER	W.F.	WIDE FLANGE
HORIZ.	HORIZONTAL	W.C.L.I.B.	WEST COAST LUMBER INSPECTION BUREAU
		WT.	WEIGHT
		W.W.F.	WELDED WIRE FABRIC
		W.W.A.	WELDED WIRE MESH
		W.W.P.A.	WESTERN WOOD PRODUCTS ASSOCIATION

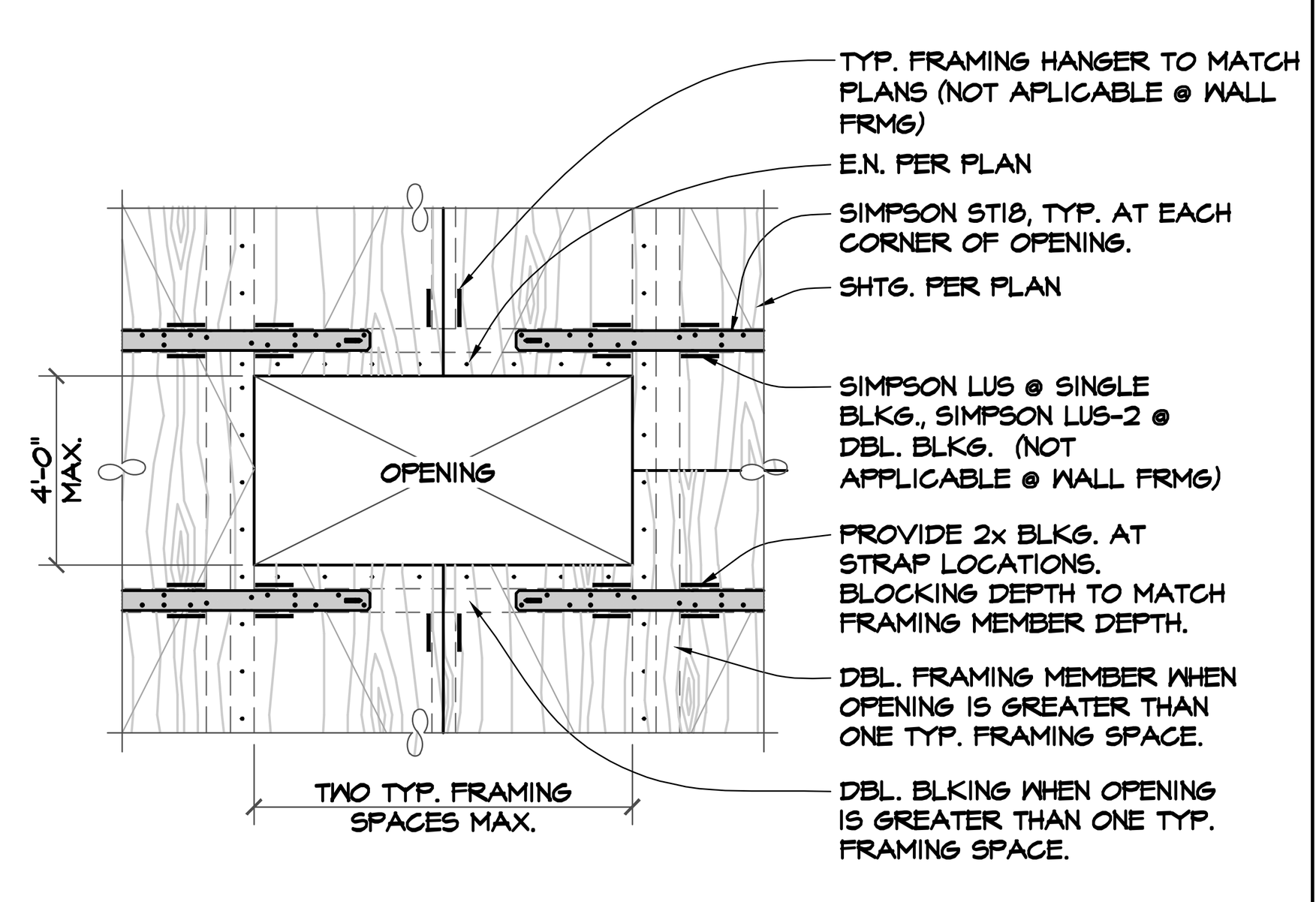
8 ABBREVIATIONS
- SCALE: N.T.S.



NOTES:
1. HOLES SHALL BE DRILLED.
2. HOLES SHALL BE CENTERED ON STUD/DOUBLE STUD.
3. WHERE THE MIN. 1" EDGE DISTANCE IS NOT MAINTAINED A SIMPSON HSS IS REQUIRED. SEE LATEST EDITION OF SIMPSON CATALOG FOR INSTALLATION INFORMATION.

9 HOLES IN WOOD STUDS
- SCALE: N.T.S.

NOTE:
FRAMING MEMBERS CAN BE EITHER RAFTERS, JOISTS OR STUDS DEPENDING ON THE LOCATION OF THE OPENING. SEE PLANS FOR ADDITIONAL INFORMATION.



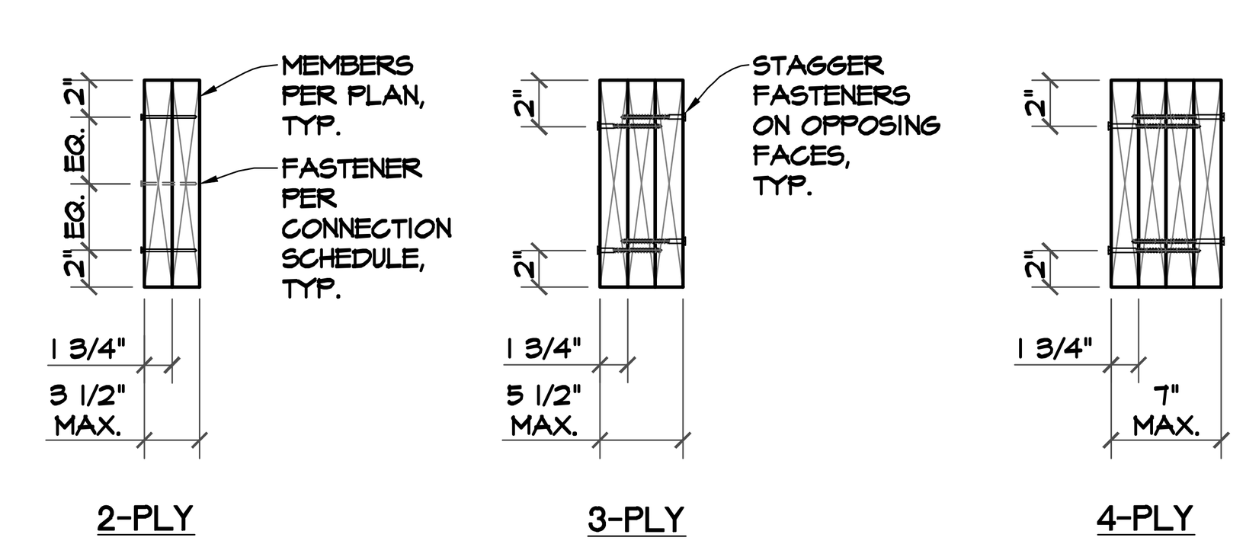
10 BLOCKING AROUND OPENING
IN WOOD ROOF, FLOOR OR WALL SHEATHING SCALE: N.T.S.

#	CONNECTION	FASTENING [a,g,h,i]		LOCATION
1.	JOIST TO SILL OR GIRDER	3 - 8d		TOENAIL
2.	BRIDGING TO JOIST	2 - 8d		TOENAIL EACH END
3.	1"x6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d		FACE NAIL
4.	1"x6" SUBFLOOR OR GREATER TO EACH JOIST	3 - 8d		FACE NAIL
5.	2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d		BLIND & FACE NAIL
6.	SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" o.c.		TYPICAL FACE NAIL
	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3 - 16d @ 16"o.c.		BRACED WALL PANELS
7.	TOP PLATE TO STUD	2- 16d		END NAIL
8.	STUD TO SOLE PLATE	4 - 8d 2 - 16d		TOENAIL END NAIL
9.	DOUBLE STUDS	16d @ 24" o.c.		FACE NAIL
10.	DOUBLE 2x TOP PLATE	16d @ 16" o.c. 8 - 16d		FACE NAIL LAP SPLICE
	3x TOP PLATE OVER 2X PLATE	20d @ 16"o.c. 8 - 20d		FACE NAIL LAP SPLICE
11.	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d		TOENAIL
12.	RIM JOIST TO TOP PLATE	8d @ 6" o.c.		TOENAIL
13.	TOP PLATES, LAPS & INTERSECTIONS	2 - 16d		FACE NAIL
14.	CONTINUOUS HEADER, TWO PIECES	16d		16" O.C. @ EDGE
15.	CEILING JOISTS TO PLATE	3 - 8d		TOENAIL
16.	CONTINUOUS HEADER TO STUD	4 - 8d		TOENAIL
17.	CEILING JOISTS LAPS OVER PARTITIONS	3 - 16d MIN. TABLE 2308.10.4.1		FACE NAIL
18.	CEILING JOISTS TO PARALLEL RAFTERS	3 - 16d TABLE 2308.10.4.1		FACE NAIL
19.	RAFTER TO PLATE	3 - 8d		TOENAIL
20.	1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d		FACE NAIL
21.	1"x8" SHEATHING TO EA. BEARING	3 - 8d		FACE NAIL
22.	WIDER THAN 1"x8" SHEATHING TO EACH BEARING	3 - 8d		FACE NAIL
23.	BUILT-UP CORNER STUDS	16d		24" O.C.
24.	BUILT-UP GIRDER AND BEAMS	20d @ 32" o.c.		FACE NAIL @ TOP AND BOT. STAG. ON OPPOSITE SIDES
		2 - 20d		FACE NAIL @ ENDS AND @ EA. SPLICE
25.	2" PLANKS	16d		@ EACH BEARING
26.	COLLAR TIE TO RAFTER	3 - 10d		FACE NAIL
27.	JACK RAFTER TO HIP	3 - 10d 2 - 16d		TOENAIL FACE NAIL
28.	ROOF RAFTER TO 2x RIDGE BEAM	2 - 16d 2 - 16d		TOENAIL FACE NAIL
29.	JOIST TO BAND JOIST	3 - 16d		FACE NAIL
30.	LEDGER STRIP	3 - 16d		FACE NAIL
31.	WOOD STRUCTURAL PANELS AND PARTICLEBOARD, SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) [b]	1/2" & LESS 19/32" to 3/4" 7/8" to 1" 1 1/8" to 1 1/4"	6d [f] 1 3/4" 16GA.[k] 8d, 6d 2" 16 GA. [m] 8d 10d, 8d	-
	SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING) [b]	3/4" & LESS 7/8" to 1" 1 1/8" to 1 1/4"	6d 8d 10d / 8d	-
32.	PANEL SIDING (TO FRAMING)	1/2" & LESS 5/8"	6d [c] 8d [c]	-
33.	FIBERBOARD SHEATHING [d]	1/2"	6d NO.16 GA. STAPLE [j]	-
		25/32"	8d NO.16 GA. STAPLE [j]	-
34.	INTERIOR PANELING [e]	1/4" to 3/8"	6d	-

a. COMMON NAILS ARE REQUIRED TO BE USED U.N.O. COMMON NAIL PROPERTIES ARE AS FOLLOWS:
- 6d = 0.113"Φ x 2" LONG
- 8d = 0.131"Φ x 2 1/2" LONG
- 10d = 0.148"Φ x 3" LONG
- 16d = 0.162"Φ x 3 1/2" LONG
- 20d = 0.192"Φ x 4" LONG

b. NAILS SPACED AT 6" o.c. AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305.
c. CORROSION-RESISTANT SIDING (6d - 1 7/8"x0.106"; 8d - 2 3/8"x0.128") OR CASING (6d - 2"x0.099"; 8d - 2 1/2"x0.113") NAIL.
d. FASTENERS SPACED 3" o.c. AT EXTERIOR EDGES AND 6" o.c. AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" o.c. E.N. & 12" o.c. F.N. FOR NONSTRUCTURAL APPLICATIONS.
e. NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
f. ROOF SHEATHING APPLICATIONS, 8d ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
g. NAILING DRIVEN INTO PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED OR EQUIVALENT.
h. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16".
i. FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, WITH COATING PER A.S.T.M. A153.
j. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" LENGTH SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING. PANEL SUPPORTS @ 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
k. FASTENERS SPACED 4" o.c. E.N., 8" o.c. F.N. FOR SUBFLOOR AND WALL. SHEATHING AND 3" o.c. E.N. AND 6" o.c. F.N. FOR ROOF SHEATHING.
m. FASTENERS SPACED 4" o.c. E.N. AND 8" o.c. F.N.
n. THIS SCHEDULE WILL GOVERN UNLESS NOTED OTHERWISE ON PLANS.

6 NAILING SCHEDULE
PER CBC TABLE 2304.9.1 SCALE: N.T.S.



CONNECTION SCHEDULE

	CONNECTOR TYPE	# OF ROWS	CONNECTOR ON-CENTER SPACING	MEMBER DEPTH
2-PLY	10d	2	12"	5 1/2" TO 9 1/4"
2-PLY	10d	3	12"	9 1/2" TO 11 7/8"
2-PLY	SDS 1/4" x 3 1/2"	2	16"	12" TO 18"
3-PLY	SDS 1/4" x 3 1/2"	2	16"	7 1/2" TO 18"
4-PLY	SDS 1/4" x 6"	2	16"	7 1/2" TO 18"

NOTES:
1. SIMPSON SDS 1/4 x 3 1/2" CAN BE SUBSTITUTED FOR 10d IN ANY SITUATION.
2. WHERE 2-PLY SITUATION IS ONLY 3" WIDE USE SIMPSON SDS 1/4 x 3" SCREWS.

7 MULTIPLE-MEMBER CONNECTIONS
FOR WOOD, LSL, OR LVL SCALE: N.T.S.

1. ALL BOLTS SHALL BE MACHINE MADE TYPE F1554 GRADE 36 U.N.O.
2. BOLT HOLES IN WOOD SHALL BE OVERSIZED BY NOT MORE THAN 1/32".
3. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH STANDARD STEEL WASHERS UNDER HEAD AND NUTS WHICH BEAR ON WOOD ACCORDING TO THE WASHER SCHEDULE BELOW, U.N.O.

WASHER SCHEDULE

BOLT SIZE	STEEL PLATE SQUARE	MALLEABLE IRON ROUND	STANDARD CUT WASHER
1/2"Φ	2 x 2 x 1/4"	2 1/2"Φ x 1/4"	1 3/8"Φ x 7/64"
5/8"Φ	2 1/2 x 2 1/2 x 1/4"	2 3/4"Φ x 5/16"	1 3/4"Φ x 1/8"
3/4"Φ	3 x 3 x 5/16"	3"Φ x 3/8"	2"Φ x 5/32"
7/8"Φ	3 1/2 x 3 1/2 x 5/8"	3 1/2"Φ x 7/16"	2 1/4"Φ x 11/64"
1"Φ	3 3/4 x 3 3/4 x 7/16"	4"Φ x 1/2"	2 1/2"Φ x 11/64"
1 1/8"Φ	4 x 4 x 7/16"	4 1/2"Φ x 9/16"	2 3/4"Φ x 11/64"
1 1/2"Φ	4 1/4 x 4 1/4 x 1/2"	5"Φ x 5/8"	3 1/2"Φ x 3/16"

4. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
5. ANCHOR AND/OR SILL BOLTS WITH UPSET THREADS ARE NOT PERMITTED.
6. SILL PLATES UNDER ALL EXTERIOR WALLS, BEARING WALLS AND SHEAR WALLS SHALL BE BOLTED TO MASONRY OR CONCRETE WITH 5/8"Φ x 12" BOLTS SPACED NOT MORE THAN 6'-0" ON CENTER, WITH A MIN. OF 2 BOLTS FOR EACH PIECE OF SILL PLATE, U.N.O. SHEAR WALLS ABOVE 2 STORIES SHALL HAVE BOLTS SPACED NOT MORE THAN 4'-0" O.C., U.N.O. ALL SILL PLATE ANCHOR BOLTS SHALL HAVE 3" SQ. x 1/4" SLOTTED PLATE WASHERS (OR SIMPSON BPS) WITH A STANDARD CUT WASHER PLACED BETWEEN THE PLATE WASHER AND THE NUT, U.N.O. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING.
7. ALL ANCHOR BOLTS IN WOOD SHALL BE SPACED 4 INCH MINIMUM AND 12 INCH MAXIMUM FROM END OF THE SILL PLATE, AND HAVE 7 INCH MINIMUM EMBEDMENT INTO CONCRETE OR MASONRY. ANY LOCATION WHERE A HOLE OR NOTCH LARGER THAN THE SILL PLATE THICKNESS OCCURS, SHALL HAVE ADDITIONAL ANCHOR BOLTS PLACED 4 INCHES TO 12 INCHES ON EACH SIDE OF THE HOLE OR NOTCH.
8. SILL PLATES AT ALL WALLS SHALL BE PRESERVATIVE-TREATED D.F. 2X OF THE SAME WIDTH AS STUDS, U.N.O. ALL PRESERVATIVE-TREATED D.F. SHALL BEAR THE AWPB QUALITY MARK. ALL CUTS OR HOLES SHALL BE PRE-TREATED PRIOR TO INSTALLATION.
9. NO SILL PLATE PIECE SHALL END WITHIN THE LENGTH OF SHEAR PANEL UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE PLANS.
10. ALL EXPOSED FASTENERS SHALL HAVE ZINC-COATING CORROSION RESISTANCE.
11. ALL FASTENERS AND HARDWARE IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE RETARDANT WOOD SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHT FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH A.S.T.M. A 153. EXCEPTION: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH A.S.T.M. B 695, CLASS 55 MIN.
12. BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES.
13. ALL FASCIA BOARDS MUST BE CONTINUOUS WITH NO SPLICES ALLOWED WITHIN 12'-0" MINIMUM FROM FRAMING CORNERS, UNLESS NOTED OTHERWISE.
14. PLYWOOD NOTES:
- IN HORIZONTAL PLYWOOD DIAPHRAGMS, NO PANEL LESS THAN 24" WIDE SHALL BE USED. IN VERTICAL PLYWOOD SHEAR WALLS, NO PANEL LESS THAN 16" WIDE SHALL BE USED. PLYWOOD SHEETS SHALL NOT BE LESS THAN 8 SQUARE FEET AT ANY LOCATION. PROVIDE FULL SHEETS OF PLYWOOD WHEREVER POSSIBLE
- ANY PIECE OF PLYWOOD SPANNING ACROSS FEWER THAN 3 SUPPORTS SHALL BE BLOCKED ON ALL EDGES.
- SHEAR WALL PLYWOOD SHALL BE BLOCKED AT ALL EDGES.
- DIAPHRAGM AND SHEAR WALL NAILING SHALL CONFORM TO TABLE 2304.2/3 OF CBC 2016.
- NAILS SHALL NOT BE OVER DRIVEN AS TO CAUSE CRUSHING OF FACEPLY.
- WHERE GLUING OF PLYWOOD IS REQUIRED, INSURE THAT CONTACT SURFACES ARE FREE OF DIRE, DUST, STANDING WATER OR OTHER DELETERIOUS MATTER. APPLY A BEAD OF GLUE ABOUT 1/4" IN DIAMETER TO ALL CONTACT/ BEARING SURFACES. ON WIDE AREAS, APPLY GLUE IN SERPENTINE PATTERN. APPLY TWO BEADS OF GLUE ON JOISTS WHERE PANEL ENDS BUT TO EACH OTHER. APPLY GLUE PROGRESSIVELY TO BUTTING EDGES OF PANELS AND INTO THE GROOVED EDGES OF TONGUE AND GROOVE PANELS AS WORK PROGRESSES. ADHESIVE SHALL CONFORM TO A.P.A. SPEC AFG-01.

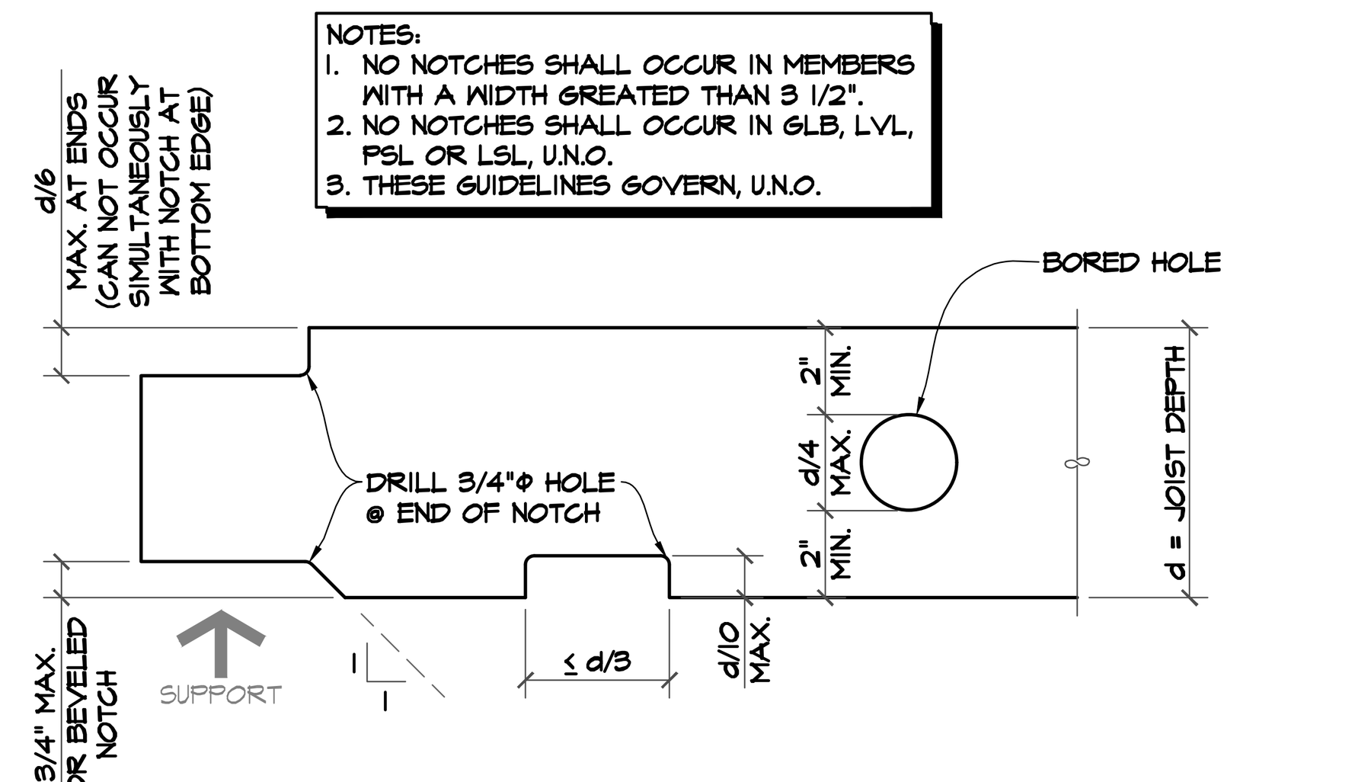
15. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
- DOUGLAS FIR - LARCH . . . . WCLIB OR WWPA RULES
- PLYWOOD . . . . U.S. PRODUCT STANDARD PS1-09 FOR SOFTWOOD PLYWOOD

16. MINIMUM GRADES SHALL BE AS FOLLOWS U.N.O. ON DRAWINGS:
- STRUCTURAL FRAMING — DF NO. 1 OR BETTER
- 4x AND LARGER AND POST — DF NO. 1 OR BETTER
- STRUCTURAL PLYWOOD — PLYWOOD SHEATHING, GROUP 1, EXP. 1, U.N.O.

17. PREDRILL HOLES WHERE WOOD TENDS TO SPLIT.
18. WHERE LAG SCREWS ARE INDICATED, PROVIDE A FULL BODY DIAMETER LAG SCREW. THE SHANK SHALL EXTEND BEYOND THE ADJOINING MEMBER PLANE, U.N.O. LAG SCREWS SHALL NOT HAVE UPSET THREADS OR REDUCED BODY.
19. FOR LAG SCREWS, LEAD HOLE FOR THE UNTHREADED PORTION SHALL HAVE A DIAMETER EQUAL TO THE SHANK DIAMETER AND THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 65% OF THE SHANK DIAMETER. MIN. PENETRATION (NOT INCLUDING THE LENGTH OF TAPERED TIP) OF THE LAG SCREW INTO MAIN MEMBER SHALL BE EIGHT TIMES THE DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER DIAMETER LAG SCREWS PROVIDED THAT EDGE DISTANCES, END DISTANCES, AND SPACING ARE SUFFICIENT TO PREVENT UNUSUAL SPLITTING.
20. SEE <u>NAILING SCHEDULE</u> FOR MINIMUM NAILING REQUIREMENTS.
21. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE LOCAL BUILDING DEPARTMENT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MIN. ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

4 WOOD NOTES
- SCALE: N.T.S.

NOTES:
1. NO NOTCHES SHALL OCCUR IN MEMBERS WITH A WIDTH GREATED THAN 3 1/2".
2. NO NOTCHES SHALL OCCUR IN GLB, LVL, PSL OR LSL, U.N.O.
3. THESE GUIDELINES GOVERN, U.N.O.



LOCATION	MAX. BORED HOLE DIAMETER	MAX DEPTH OF NOTCH (TOP OR BOT.)
WITHIN 3d FROM SUPPORT	NOT PERMITTED	d/10
FROM 3d FROM SUPPORT TO 1/3 POINT OF SPAN	d/4	d/10
CENTER 1/3 OF SPAN	d/4	NOT PERMITTED

5 ALLOWABLE NOTCHES AND HOLES
IN 2x OR 4x WOOD JOISTS SCALE: N.T.S.

1. ANY SUBSTITUTIONS FOR STRUCTURAL ITEMS ON APPROVED PLANS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO USE. REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO CONTRACTOR WITH NO GUARANTEE THE SUBSTITUTION WILL BE ALLOWED.
2. DETAILS AND NOTES ON TYPICAL SHEETS SHALL APPLY U.N.O. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS U.N.O. TYPICAL DETAILS ARE AT NO SCALE.
3. DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS ON DETAIL ARE NOT CLEAR, OR DISCREPANCIES EXIST ON THE DRAWINGS OR SPECIFICATIONS, CONTACT THE ENGINEER.
4. SEE MECHANICAL, ELECTRICAL, AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND OTHER SIMILAR OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
5. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT OF BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. THE DESIGN, FABRICATION AND CONSTRUCTION SHALL COMPLY WITH ACCEPTED LOCAL GOVERNING CODES OF THE PARTICULAR AREA.
7. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
8. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
9. CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
10. ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.
11. SHOP DRAWINGS:
- SHOP DRAWINGS SHALL BE SUBMITTED PER PROJECT SPECIFICATIONS.
- PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE APPROVED DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE" TO APPROVED CONTRACT DOCUMENTS.
- THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE DESIGN TEAM THAT HE AND THE SUBCONTRACTOR UNDERSTAND THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.
- DESIGN DOCUMENTS ARE NOT SHOP DRAWINGS AND SHALL NOT BE SUBMITTED AS SUCH.

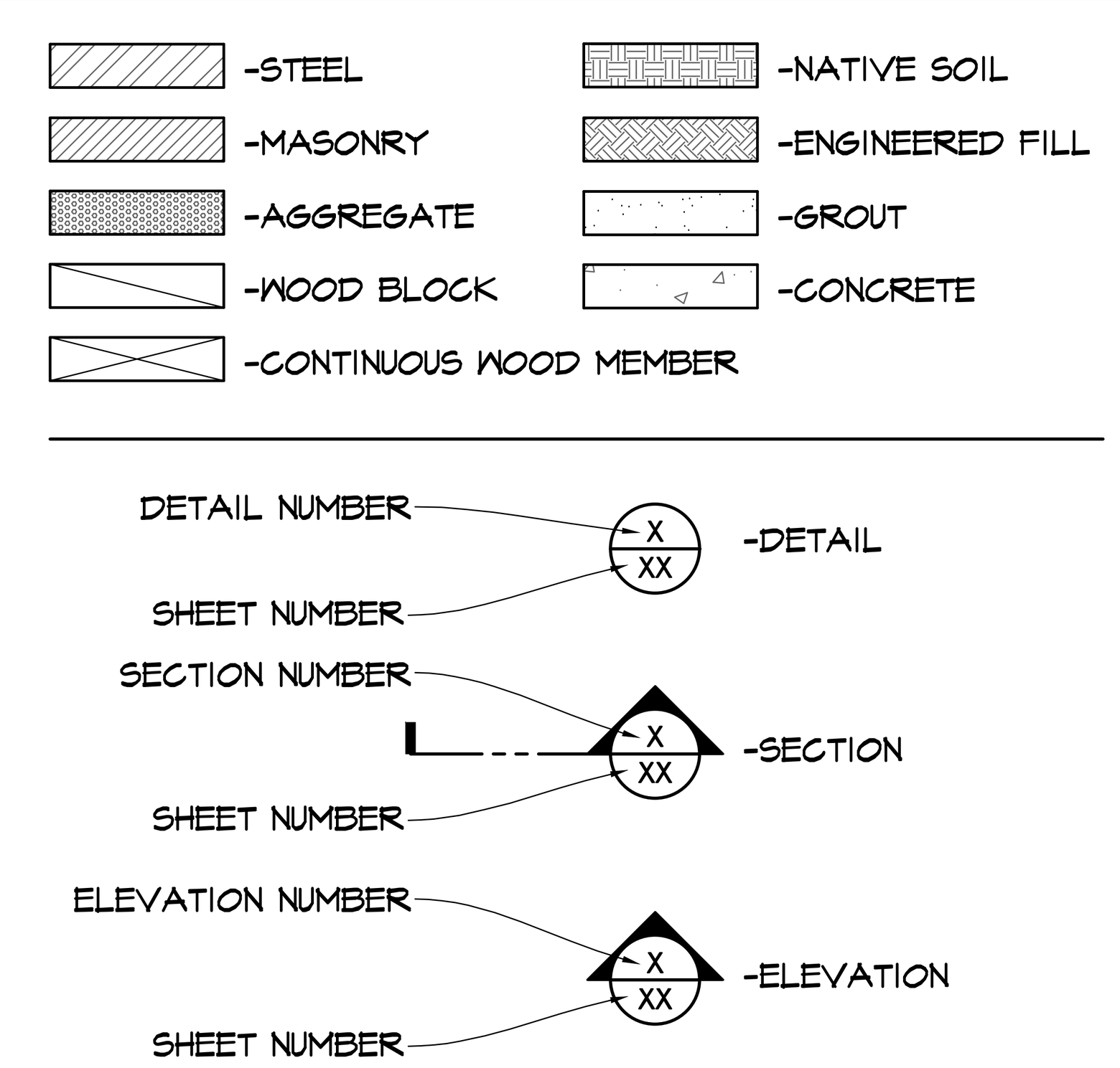
12. ALL NOTES SPECIFIED ON PLANS AND IN DETAILS WITH THE WORD "TYPICAL" FOLLOWED BY <u>BOLD AND UNDERLINED</u> TEXT REFER TO THE TYPICAL PROJECT DETAILS ON S1 SERIES SHEETS. TYPICAL DETAILS ARE NOT SPECIFICALLY REFERENCED ON PLANS AND SPECIFIC DETAILS U.N.O.

1 GENERAL PROJECT NOTES
- SCALE: N.T.S.

<u>CODE</u>
2022 CALIFORNIA BUILDING CODE

<u>RISK CATEGORY</u>	III
<u>ROOF LOADS</u>	
DEAD LOADS	15 PSF
LIVE LOAD	20 PSF
<u>SEISMIC LOADING CRITERIA</u>	
SEISMIC IMPORTANCE FACTOR,	1.00
MAPPED SPECTRAL ACCELERATION, MCE:	
a. S_S	0.559
b. S_1	0.220
SPECTRAL RESPONSE COEFFICIENT:	
a. F_a	1.353
b. F_v	N/A-
MAXIMUM CONSIDERED EARTHQUAKE RESPONSE ACCELERATIONS:	
a. S_{MS}	0.756
b. S_{M1}	N/A
DESIGN SPECTRAL RESPONSE ACCELERATIONS:	
a. S_{DS}	0.504
b. S_{D1}	N/A
SEISMIC DESIGN CATEGORY	III
RESPONSE MODIFICATION COEFFICIENT, R	6.0
SEISMIC RESPONSE COEFFICIENT/BASE SHEAR	0.504Wd
SEISMIC SYSTEM OVERSTRENGTH FACTOR	2.0
<u>WIND LOADING CRITERIA FOR ROOFTOP STRUCTURES & EQUIPMENT:</u>	
BASIC WIND SPEED, V_{3S}	105 MPH
SURFACE ROUGHNESS CATEGORY	1.00
EXPOSURE CATEGORY	C
VELOCITY PRESSURE EXPOSURE COEFFICIENT, K_z	1.08
TOPOGRAPHIC FACTOR, K_{ZT}	1.00
ENCLOSURE CLASSIFICATION	OPEN
EQUIPMENT WALL WIND LOADS, P_{net}	36.27 PSF
DESIGN UPLIFT WIND LOADS, P_{net}	-23.32 PSF

2 DESIGN CRITERIA
- SCALE: N.T.S.



3 LEGEND AND SYMBOLS
- SCALE: N.T.S.

APPROVED
Sep 25 2024
COUNTY OF FRESNO
DEVELOPMENT SERVICES

ENGINEER DD
DRAWN BY DD
DATE 06-18-24
REVISIONS

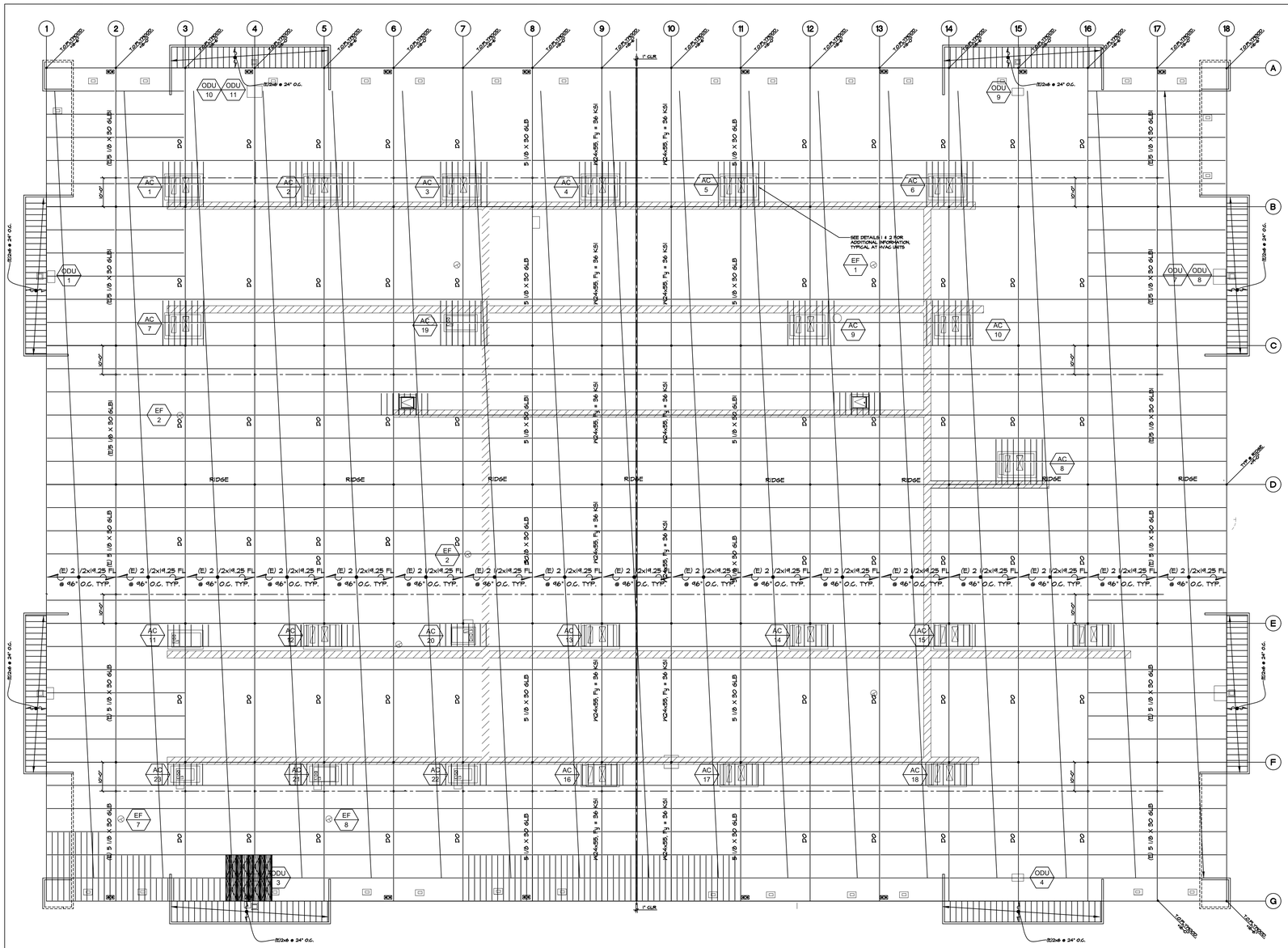
GENERAL NOTE AND TYPICAL DETAILS
THE PACIFIC TELEPHONE AND TELEGRAPH CO.
5555 EAST OLIVE AVE.
FRESNO, CA

ENGINEERS STAMP

STRUCTURAL ONE CORP
42380 BALD MOUNTAIN ROAD
AUBERRY, CA 93602
(559) 285-2727 DIRECT
dwight@structuralonecorp.com

PROJECT NUMBER
24023

SHEET NUMBER
S101



ROOF FRAMING PLAN

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

ROOF_FRAMING_NOTES

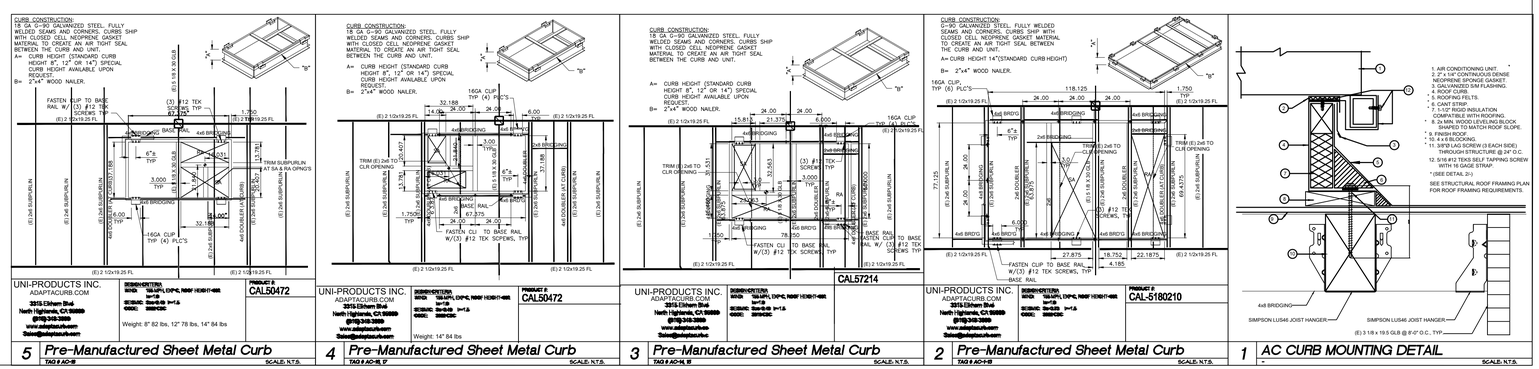
1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY BOLD AND UNDERLINED TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL ROOF MOUNTED HVAC UNITS TO BE INSTALLED IN THE FUTURE UNDER SEPARATE PERMITS.
3. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
4. ALL EXTERIOR WALLS AND EXTERIOR SOFFITS SHALL HAVE 15/32" SHEATHING WITH 10d @ 6"O.C. E.N. AND 10d @ 12"O.C. F.N., UNLESS NOTED OTHERWISE. SEE WOOD NOTES FOR SHEATHING MATERIAL.
5. ALL TOP OF FRAMING ABOVE FINISH SLAB VARIES, SEE PLAN FOR INFORMATION.
6. VERIFY ROOF SLOPE(S) WITH ARCHITECTURAL PLANS.
7. SEE TYPICAL MECHANICAL UNIT ATTACHMENT DETAIL FOR ROOF MOUNTED EQUIPMENT. CONTRACTOR SHALL VERIFY AND COORDINATE HEIGHTS AND LOCATIONS OF ALL ROOF SUPPORTED MECHANICAL AND ELECTRICAL UNITS, AND NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY DISCREPANCIES ARE DETERMINED.
8. AT OPENINGS IN DIAPHRAGM OR WALL SHEATHING SEE TYPICAL BLOCKING AROUND OPENING DETAIL FOR INFORMATION UNLESS NOTED OTHERWISE.
9. TOP PLATE SPLICES SHALL BE NAILED PER THE TYPICAL TOP PLATE SPLICE DETAIL.
10. WHERE FRAMING MEMBERS ARE BUILT UP OF MULTIPLE MEMBERS, SEE TYPICAL MULTIPLE-MEMBER CONNECTION DETAIL FOR FASTENER INFORMATION.
11. COORDINATE WITH ARCHITECTURAL IF ADDITIONAL FRAMING BLOCKING IS REQUIRED FOR SUSPENDED CEILING, SOFFITS AND FINISHES.
12. DIAPHRAGM SHEATHING SHALL BE BOUNDARY NAILED TO ALL BLOCKING, BEAM AND RAFTERS THAT ARE IN LINE WITH SHEAR WALLS.
13. WHERE HEADERS ARE NOT SPECIFICALLY NOTED ON PLAN, SEE TYPICAL WALL FRAMING AT OPENINGS DETAIL FOR HEADER INFORMATION.
14. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.

WALL BELOW SEE FOUNDATION PLAN FOR ADD'L INFORMATION

HEADER. WHERE "SIZE" IS NOT INDICATED SEE TYPICAL WALL FRAMING AT OPENINGS FOR WOOD FRAMING DETAIL.

ROOF SHEATHING. PROVIDE 15/32" THICK SHEATHING WITH 10d NAILS @ 6-in.O.C. NOTED. SEE TYPICAL ROOF SHEATHING DETAIL.
- FIELD
- PANEL EDGE
- CONTINUOUS PANEL EDGE @ BOUNDARY

APPROVED
Sep 25 2024
COUNTY OF FRESNO
DEVELOPMENT SERVICES



ENGINEER DD
DRAWN BY DD
DATE 06-18-24
REVISIONS
1 09-17-24 BACKCHECK

ROOF FRAMING PLAN
THE PACIFIC TELEPHONE AND TELEGRAPH CO.
5555 EAST OLIVE AVE.
FRESNO, CA

REGISTERED PROFESSIONAL ENGINEER
DWIGHT W. DRUEN
NO. S26629
EXPIRES 12-31-24
STRUCTURAL
STATE OF CALIFORNIA

STRUCTURAL ONE CORP
42380 BALD MOUNTAIN ROAD
AUBERRY, CA 93602
(559) 285-2727 DIRECT
dwight@structuralonecorp.com

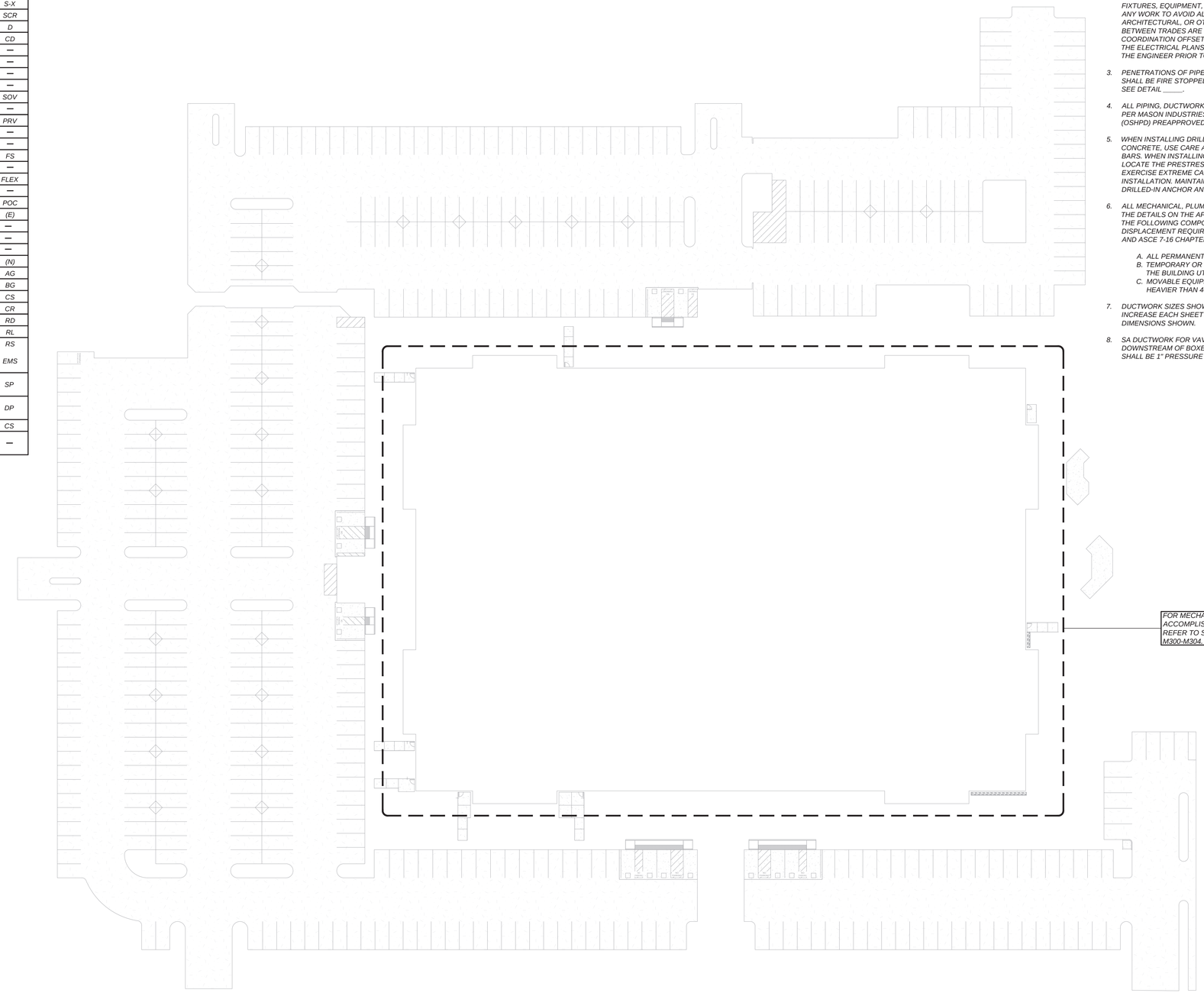
PROJECT NUMBER
24023

SHEET NUMBER
S202

AIR CONDITIONING LEGEND

SYMBOL	ITEM	ABBR
	ROUND DUCT	Ø
	FLAT OVAL DUCT	⟲
	SHEET METAL DUCT	—
	ACOUSTIC LINING FOR DUCT OR GRILLES	(L)
	DUCT W/EXT INSULATION & GALV. SM SUNSHIELD	—
	SUPPLY AIR DUCT DROP	—
	RETURN AIR DUCT DROP	—
	EXHAUST DUCT AIR DROP	—
	SUPPLY AIR DUCT RISE	—
	RETURN AIR DUCT RISE	—
	EXHAUST AIR DUCT RISE	—
	TURNING VANES	TV
	EXTRACTOR	—
	VOLUME CONTROL DAMPER W/LOCKING QUADRANT	VCD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	VOLUME CONTROL DAMPER W/ REMOTE REGULATOR	VCR
& ■	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
& ▲	FIRE DAMPER WITH ACCESS PANEL	FD
& ◆	SMOKE DAMPER WITH ACCESS PANEL	SD
CFM	CUBIC FEET OF AIR PER MINUTE	CFM
Ⓣ	THERMOSTAT @ +4'-0" TOP OF BOX	T'STAT
Ⓗ	HUMIDISTAT @ +4'-0" TOP OF BOX	H'STAT
Ⓒ	CO_2 SENSOR @ +4'-0" TOP OF BOX	CO_2
T	EMS TEMPERATURE SENSOR @ +4'-0" TOP OF BOX	—
H	EMS HUMIDITY SENSOR @ +4'-0" TOP OF BOX	—
C	EMS CO_2 SENSOR @ +4'-0" TOP OF BOX	CO_2
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
—	OUTSIDE AIR	OSA
SD	DUCT SMOKE DETECTOR	SD
A/V	AUDIBLE/VISUAL ALARM	A/VA
	BYPASS TIMER	BPT

SYMBOL	ITEM	ABBR
HWS	HOT WATER SUPPLY	HWS
HWR	HOT WATER RETURN	HWR
CWS	CHILLED WATER SUPPLY	CWS
CWR	CHILLED WATER RETURN	CWR
CHWS	CHILLED/HOT WATER SUPPLY	CHWS
CHWR	CHILLED/HOT WATER RETURN	CHWR
S-X	STEAM SUPPLY (X IS PSI)	S-X
SCR	STEAM CONDEN. RETURN	SCR
D	DRAIN	D
CD	CONDENSATE DRAIN	CD
	BALL VALVE	—
	BUTTERFLY VALVE	—
	CHECK VALVE	—
	GATE VALVE	—
	SHUT-OFF VALVE	SOV
	PLUG VALVE	—
	PRESSURE RELIEF VALVE	PRV
	UNION	—
	INSTRUMENT WELL	—
	FLOW SWITCH	FS
	STRAINER	—
	FLEXIBLE CONNECTION	FLEX
	REDUCER OR INCREASER	—
	POINT OF CONNECTION	POC
	EXISTING (DESIGNATED)	(E)
	PIPE/DUCT TURN DOWN	—
	PIPE/DUCT TURN UP	—
	DIRECTION OF FLOW	—
—	NEW (DESIGNATED)	(N)
—	ABOVE GRADE	AG
—	BELOW GRADE	BG
CS	CONDENSER WATER RETURN	CS
CR	CONDENSER WATER SUPPLY	CR
RD	REFRIGERANT DISCHARGE	RD
RL	REFRIGERANT LIQUID	RL
RS	REFRIGERANT SUCTION	RS
EMS	ENERGY MANAGEMENT SYSTEM CABLE IN CONDUIT	EMS
SP	EMS STATIC PRESSURE SENSOR	SP
DP	EMS DIFFERENTIAL PRESSURE SENSOR	DP
CS	EMS CURRENT SENSOR	CS
M	EMS MOTORIZED DUCT DAMPER/ PIPE VALVE ACTUATOR	—



MECHANICAL SITE PLAN

Scale: 1" = 30'-0"

GENERAL MECHANICAL NOTES:

1. THE INTENT OF THE DRAWING AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2022 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION 4-338, PART 1, TITLE 24, CCR, AND SHALL BE SUBMITTE COMMENCEMENT OF THE WORK.

THIS SHEET IS FOR REFERENCE ONLY

NOT FOR CONSTRUCTION

2. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS. ALL DUCT AND PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.

3. PENETRATIONS OF PIPES, CONDUITS, ETC. IN WALLS OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED INCLUDING EXISTING PIPE AND CONDUIT THROUGH NEW WALLS AND FLOORS. SEE DETAIL _____.

4. ALL PIPING, DUCTWORK AND CONDUIT REQUIRING SEISMIC BRACE AND SUPPORT SHALL BE SUPPORTED PER MASON INDUSTRIES, INC. "SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES", HCAI (OSHPD) PREAPPROVED ANCHORAGE OPM-0043-13 OR OTHER HCAI (OSHPD) PREAPPROVED SYSTEM.

5. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER-DRIVEN PINS IN EXISTING NON-PRESTRESSED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE-OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

6. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE THERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30..
   A. ALL PERMANENT EQUIPMENT AND COMPONENTS..
   B. TEMPORARY OR MOVABLE.EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL, GAS, OR WATER.
   C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FORM MORE THAN 8 HOURS AND HEAVIER THAN 400 LBS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

7. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, INCREASE EACH SHEET METAL DIMENSION TO ACCOMMODATE LINING & MAINTAIN CLEAR INSIDE DUCT DIMENSIONS SHOWN.

8. SA DUCTWORK FOR VAV SYSTEMS SHALL BE 2" PRESSURE CLASS UPSTREAM OF BOXES AND 1" DOWNSTREAM OF BOXES, AND SA DUCTWORK SHALL BE 1" PRESSURE CLASS AND RA & EA DUCTWORK SHALL BE 1" PRESSURE CLASS UNLESS OTHERWISE NOTED.

REGISTERED PROFESSIONAL ENGINEER — MICHAEL D. CAMPBELL — No. M23588 Exp. 9-30-25 — MECHANICAL — STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP
4910 E. Clinton Way, Suite 101 Fresno, CA 93727
(559) 431-0101 24069 FAX (559) 431-1362

LICENSED ARCHITECT — BARRY LYNN MAST — PRELIMINARY — NOT FOR CONSTRUCTION — REN: 12-31-2025 — STATE OF CALIFORNIA

ARCHITECT:
Barry Lynn Mast, Architect
California License Architect No. C 38769
Ren. 12-31-2025
Fresno County Department of
Public Works and Planning
Development Services and
Capital Projects Division
2220 Tulare Street, 8th Floor
Fresno, California 93721

Office: (559) 600-4536
Email: bmast@fresnocountyca.gov

Project:

THE COUNTY OF FRESNO
DEPARTMENT OF BEHAVIORAL HEALTH
OLIVE AVE CAMPUS REMODEL
5555 E Olive Avenue, Fresno, California
APN: 45522312ST
Issue date: 2024-08-02
Project no.: T80317
File name: M100 Site Plan and Notes

Sheet Content:

SITE PLAN AND NOTES

Fresno County Department of
Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.:

M-100

Sheet of XX

Plot Date: 2024-08-02

VARIABLE AIR VOLUME (VAV) TERMINAL BOX WITH ELECTRIC RE-HEAT SCHEDULE

DESIGNATION	VAV 1-1	VAV 1-2	VAV 1-3	VAV 2-1	VAV 2-2	VAV 2-3	VAV 3-1	VAV 3-2	VAV 3-3	VAV 4-1	VAV 4-2	VAV 4-3	VAV 4-4	VAV 5-1	VAV 5-2	VAV 5-3	VAV 5-4
DESIGN CFM	3200	850	1950	2650	625	2350	2975	1325	1225	1800	1650	1500	750	1150	1150	800	2575
MINIMUM CFM	960	255	585	795	190	705	895	400	370	540	495	450	225	345	345	240	775
INLET PRESSURE (IN. WC)	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"
INTERNAL PD (IN. WC)	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"
MAX NC (DISCHARGE)	25	15	20	21	20	24	24	24	23	25	24	21	21	21	21	21	20
HEATING AIRFLOW	1600	425	975	1325	325	1175	1500	675	625	900	825	750	375	575	575	400	1300
HEATING CAPACITY (MBH)	69.1	18.4	36.9	57.2	12.3	44.4	64.8	29.2	27.1	34.0	31.2	28.4	14.2	24.8	24.8	15.1	49.1
HEATING STAGES	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
VOLTAGE / PHASE	480/3	277/1	277/1	480/3	277/1	480/3	480/3	277/1	277/1	277/1	277/1	277/1	277/1	277/1	277/1	277/1	480/3
MCA / MOCP (AMPS)	30.6 / 35	24.4 / 25	49 / 50	25.3 / 30	16.3 / 20	19.7 / 20	28.7 / 30	38.8 / 40	35.9 / 40	45.2 / 50	41.4 / 45	37.7 / 40	18.8 / 20	33 / 35	33 / 35	20.1 / 25	21.7 / 25
ELEC. RESISTANCE (KW)	20.35	5.41	10.85	16.85	3.62	13.08	19.08	8.59	7.95	10.02	9.18	8.35	4.17	7.31	7.31	4.45	14.47
EADB / LABD (°F)	55 / 95	55 / 95	55 / 90	55 / 95	55 / 90	55 / 90	55 / 95	55 / 95	55 / 95	55 / 90	55 / 90	55 / 90	55 / 90	55 / 95	55 / 95	55 / 90	55 / 90
MANUFACTURER	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR
MODEL	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE
UNIT SIZE*	24	10	14	16	8	14	16	10	10	12	12	12	8	10	10	8	16
LOCATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE	1-1	1-2	1-3	2-1	2-2	2-3	3-1	3-2	3-3	4-1	4-2	4-3	4-4	5-1	5-2	5-3	5-4
OPER. WT. (LBS)	155	75	89	89	75	89	89	75	75	89	89	89	75	75	75	75	89
ACCESSORIES	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5

1 . DOUBLE WALL CONSTRUCTION WITH 1" FIBERGLASS INSULATION
2 . CERTIFIED ULTRA-LOW AIR LEAKAGE
3 . EMS TO PROVIDE FIELD CONTROLLER
4 . MANUFACTURER PROVIDED NEMA 1 CONTROL BOX AND DAMPER ACTUATOR FOR CONTROL INTEGRATION
5 . ELECTRICAL TO PROVIDE SEPARATE 115V CIRCUIT FOR CONTROLS
* REFER TO MANUFACTURER CUT-SHEETS FOR INLET, OUTLET, AND PHYSICAL DIMENSIONS

VARIABLE AIR VOLUME (VAV) TERMINAL BOX WITH ELECTRIC RE-HEAT SCHEDULE

DESIGNATION	VAV 6-1	VAV 6-2	VAV 6-3	VAV 6-4	VAV 7-1	VAV 7-2	VAV 7-3	VAV 7-4	VAV 7-5	VAV 8-1	VAV 8-2	VAV 8-3	VAV 8-4	VAV 9-1	VAV 9-2	VAV 9-3	VAV 10-1	VAV 10-2	VAV 10-3	VAV 10-4
DESIGN CFM	1400	1325	1800	1200	700	700	1125	1125	2175	1900	1925	1400	1650	2275	2925	1475	1675	1700	1550	600
MINIMUM CFM	420	400	540	360	210	210	340	340	655	570	580	425	495	690	880	445	550	510	465	180
INLET PRESSURE (IN. WC)	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"
INTERNAL PD (IN. WC)	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"
MAX NC (DISCHARGE)	25	24	25	23	21	21	21	21	23	26	26	25	24	24	24	21	24	24	21	19
HEATING AIRFLOW	700	675	900	600	350	350	575	575	1100	950	975	700	825	1150	1475	750	850	850	775	300
HEATING CAPACITY (MBH)	30.2	25.5	29.9	22.7	13.2	13.2	21.7	21.7	47.5	35.9	42.1	26.5	35.6	43.5	55.8	28.4	32.1	32.1	29.3	13.0
HEATING STAGES	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
VOLTAGE / PHASE	277/1	277/1	277/1	277/1	277/1	277/1	277/1	277/1	480/3	277/1	277/1	277/1	277/1	277/1	480/3	277/1	277/1	277/1	277/1	277/1
MCA / MOCP (AMPS)	40.2 / 45	33.9 / 35	51.7 / 60	30.2 / 35	17.6 / 20	17.6 / 20	28.9 / 30	28.9 / 30	21 / 25	47.7 / 50	56 / 60	35.2 / 40	47.3 / 50	57.8 / 60	24.7 / 25	37.7 / 40	42.7 / 45	48.8 / 50	44.5 / 45	17.2 / 20
ELEC. RESISTANCE (KW)	8.90	7.51	11.45	6.68	3.90	3.90	6.40	6.40	13.99	10.57	12.40	7.79	10.49	12.80	16.42	8.35	9.46	10.81	9.86	3.82
EADB / LABD (°F)	55 / 95	55 / 90	55 / 95	55 / 90	55 / 90	55 / 90	55 / 90	55 / 90	55 / 95	55 / 90	55 / 95	55 / 90	55 / 95	55 / 90	55 / 90	55 / 90	55 / 90	55 / 95	55 / 95	55 / 95
MANUFACTURER	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR
MODEL	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE
UNIT SIZE*	10	10	12	10	8	8	10	10	14	12	12	10	12	14	16	12	12	12	12	8
LOCATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE	6-1	6-2	6-3	6-4	7-1	7-2	7-3	7-4	7-5	8-1	8-2	8-3	8-4	9-1	9-2	9-3	10-1	10-2	10-3	10-4
OPER. WT. (LBS)	75	75	89	75	75	75	75	75	89	89	89	75	89	89	89	89	89	89	89	75
ACCESSORIES	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5

1 . DOUBLE WALL CONSTRUCTION WITH 1" FIBERGLASS INSULATION
2 . CERTIFIED ULTRA-LOW AIR LEAKAGE
3 . EMS TO PROVIDE FIELD CONTROLLER
4 . MANUFACTURER PROVIDED NEMA 1 CONTROL BOX AND DAMPER ACTUATOR FOR CONTROL INTEGRATION
5 . ELECTRICAL TO PROVIDE SEPARATE 115V CIRCUIT FOR CONTROLS
* REFER TO MANUFACTURER CUT-SHEETS FOR INLET, OUTLET, AND PHYSICAL DIMENSIONS

VARIABLE AIR VOLUME (VAV) TERMINAL BOX WITH ELECTRIC RE-HEAT SCHEDULE

DESIGNATION	VAV 6-1	VAV 6-2	VAV 6-3	VAV 6-4	VAV 7-1	VAV 7-2	VAV 7-3	VAV 7-4	VAV 7-5	VAV 8-1	VAV 8-2	VAV 8-3	VAV 8-4	VAV 9-1	VAV 9-2	VAV 9-3	VAV 10-1	VAV 10-2	VAV 10-3	VAV 10-4
DESIGN CFM	1400	1325	1800	1200	700	700	1125	1125	2175	1900	1925	1400	1650	2275	2925	1475	1675	1700	1550	600
MINIMUM CFM	420	400	540	360	210	210	340	340	655	570	580	425	495	690	880	445	550	510	465	180
INLET PRESSURE (IN. WC)	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"
INTERNAL PD (IN. WC)	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"
MAX NC (DISCHARGE)	25	24	25	23	21	21	21	21	23	26	26	25	24	24	24	21	24	24	21	19
HEATING AIRFLOW	700	675	900	600	350	350	575	575	1100	950	975	700	825	1150	1475	750	850	850	775	300
HEATING CAPACITY (MBH)	30.2	25.5	29.9	22.7	13.2	13.2	21.7	21.7	47.5	35.9	42.1	26.5	35.6	43.5	55.8	28.4	32.1	32.1	29.3	13.0
HEATING STAGES	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
VOLTAGE / PHASE	277/1	277/1	277/1	277/1	277/1	277/1	277/1	277/1	480/3	277/1	277/1	277/1	277/1	277/1	480/3	277/1	277/1	277/1	277/1	277/1
MCA / MOCP (AMPS)	40.2 / 45	33.9 / 35	51.7 / 60	30.2 / 35	17.6 / 20	17.6 / 20	28.9 / 30	28.9 / 30	21 / 25	47.7 / 50	56 / 60	35.2 / 40	47.3 / 50	57.8 / 60	24.7 / 25	37.7 / 40	42.7 / 45	48.8 / 50	44.5 / 45	17.2 / 20
ELEC. RESISTANCE (KW)	8.90	7.51	11.45	6.68	3.90	3.90	6.40	6.40	13.99	10.57	12.40	7.79	10.49	12.80	16.42	8.35	9.46	10.81	9.86	3.82
EADB / LABD (°F)	55 / 95	55 / 90	55 / 95	55 / 90	55 / 90	55 / 90	55 / 90	55 / 90	55 / 95	55 / 90	55 / 95	55 / 90	55 / 95	55 / 90	55 / 90	55 / 90	55 / 90	55 / 95	55 / 95	55 / 95
MANUFACTURER	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR
MODEL	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE
UNIT SIZE*	10	10	12	10	8	8	10	10	14	12	12	10	12	14	16	12	12	12	12	8
LOCATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE	6-1	6-2	6-3	6-4	7-1	7-2	7-3	7-4	7-5	8-1	8-2	8-3	8-4	9-1	9-2	9-3	10-1	10-2	10-3	10-4
OPER. WT. (LBS)	75	75	89	75	75	75	75	75	89	89	89	75	89	89	89	89	89	89	89	75
ACCESSORIES	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5

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MICHAEL D. CANTELMI
No. M23588
Exp. 9-30-25
MECHANICAL

FOR PLAN CHECK ONLY

LAWRENCE
ENGINEERING GROUP
4910 E. Clinton Way, Suite 101
(559) 431-0101
24069
Fresno, CA 93727
FAX (559) 431-1362

PRELIMINARY
NOT FOR CONSTRUCTION
REN: 12-31-2025

ARCHITECT:
Barry Lynn Mast, Architect
California License Architect No. C 38769
Ren. 12-31-2025
Fresno County Department of
Public Works and Planning
Development Services and
Capital Projects Division
2220 Tulare Street, 8th Floor
Fresno, California 93721

Office: (559) 600-4536
Email: bmast@fresnocountyca.gov

Project:
THE COUNTY OF FRESNO
DEPARTMENT OF BEHAVIORAL HEALTH
OLIVE AVE CAMPUS REMODEL
5555 E Olive Avenue, Fresno, California
APN: 45522312ST
Issue date: 2024-08-02
Project no.: T80317
File name: M101-M104 Mechanical Schedules

Sheet Content:
MECHANICAL
SCHEDULES

Fresno County Department of
Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.:
M-101

Sheet of XX

Plot Date: 2024-08-02

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VARIABLE AIR VOLUME (VAV) TERMINAL BOX WITH ELECTRIC RE-HEAT SCHEDULE

DESIGNATION	VAV 16-1	VAV 16-2	VAV 16-3	VAV 16-4	VAV 17-1	VAV 17-2	VAV 17-3	VAV 18-1	VAV 18-2	VAV 18-3	VAV 19-1	VAV 19-2	VAV 21-1	VAV 21-2	VAV 24-1	VAV 24-2	VAV 24-3
DESIGN CFM	1750	900	2625	725	2775	1150	2325	425	1450	2000	3125	1400	1075	2375	2000	2000	1825
MINIMUM CFM	525	270	790	220	840	345	700	130	435	600	940	420	325	715	600	600	550
INLET PRESSURE (IN. WC)	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"	0.75"
INTERNAL PD (IN. WC)	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"
MAX NC (DISCHARGE)	24	24	21	20	23	21	24	15	25	28	25	25	20	25	20	20	25
HEATING AIRFLOW	875	450	1325	375	1400	575	1175	225	725	1000	1575	700	550	1200	1000	1000	925
HEATING CAPACITY (MBH)	33.1	17.0	57.2	16.2	60.5	24.8	50.8	8.5	31.3	43.2	59.5	26.5	23.8	51.8	37.8	37.8	35.0
HEATING STAGES	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
VOLTAGE / PHASE	277/1	277/1	480/3	277/1	480/3	277/1	480/3	277/1	277/1	277/1	480/3	277/1	277/1	180/3	277/1	277/1	277/1
MCA / MOCP (AMPS)	43.9 / 45	22.6 / 25	25.3 / 30	21.5 / 25	26.8 / 30	33.0 / 35	22.5 / 25	11.3 / 15	41.6 / 45	57.4 / 60	26.4 / 30	35.2 / 40	31.6 / 35	22.9 / 25	50.2 / 60	50.2 / 60	46.4 / 50
ELEC. RESISTANCE (KW)	9.74	5.01	16.85	4.77	17.81	7.31	14.95	2.50	9.22	12.72	17.53	7.79	7.00	15.26	11.13	11.13	10.29
EADB / LABD (°F)	55 / 90	55 / 90	55 / 95	55 / 95	55 / 95	55 / 95	55 / 95	55 / 90	55 / 95	55 / 95	55 / 90	55 / 90	55 / 95	55 / 95	55 / 90	55 / 90	55 / 90
MANUFACTURER	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR	NAILOR
MODEL	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE	D30RE
UNIT SIZE*	12	8	16	8	16	10	14	8	10	12	16	10	10	14	14	14	12
LOCATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE	16-1	16-2	16-3	16-4	17-1	17-2	17-3	18-1	18-2	18-3	19-1	19-2	21-1	21-2	24-1	24-2	24-3
OPER. WT. (LBS)	89	75	89	75	89	75	89	75	75	89	89	75	75	89	89	89	89
ACCESSORIES	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4, 5

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2. CERTIFIED ULTRA-LOW AIR LEAKAGE
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INDOOR UNIT SCHEDULE

	DESIGNATION	IDU 1A	IDU 1B	IDU 2A	IDU 2B	IDU 3A	IDU 3B	IDU 4A	IDU 4B	IDU 5	IDU 6	IDU 7	IDU 8	IDU 9A	IDU 9B	IDU 10	IDU 11	IDU 12	IDU 13
BLOWER	SUPPLY AIR (CFM)	450	450	450	450	800	800	800	800	300	800	300	800	800	800	500	800	800	300
	MOCP	-	-	-	-	15	15	15	15	-	-	-	-	-	15	15	-	-	-	-
	MCA / FLA (AMPS)	-	-	-	-	- / 0.81	- / 0.81	- / 0.81	- / 0.81	-	-	-	-	- / 0.81	- / 0.81	- / 0.81	-	-	-	-
	VOLTS/PHASE	ODU-1	ODU-1	ODU-2	ODU-2	208-1	208-1	208-1	208-1	ODU-5	ODU-6	ODU-5	ODU-8	208-1	208-1	ODU-10	ODU-11	ODU-12	ODU-5
	SEER2 / EER2										19 / 10		19 / 10				19 / 10	19 / 10	
COOLING	SENSIBLE (MBH)	24.0	24.0	24.0	24.0	35.5	35.5	35.5	35.5	12.0	33.0	12.0	33.0	35.5	35.5	21.6	33.0	33.0	12.0
	TOTAL (MBH)	24.0	24.0	24.0	24.0	37.0	37.0	37.0	37.0	13.8	34.0	13.8	34.0	37.0	37.0	38.9	34.0	34.0	13.8
	REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
HEATING	CAPACITY (MBH) @47°F	25.6	25.6	25.6	25.6	NA	NA	NA	NA	13.6	NA	13.6	NA	NA	NA	21.6	NA	NA	13.6
	COP / HPSF2	3.5	3.5	3.5	3.5	NA	NA	NA	NA	- / 10	NA	- / 10	NA	NA	NA	- / 9.5	NA	NA	- / 10
FILTER	QUANTITY/SIZE	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY	FACTORY
	TYPE	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8	MERV-8
	MANUFACTURER	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG
	TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	MODEL NUMBER	LMN249HVT	LMN249HVT	LMN249HVT	LMN249HVT	ARNU363SVA4	ARNU363SVA4	ARNU363SVA4	ARNU363SVA4	LSN120HSV5	LSN363HLV3	LSN120HSV5	LSN363HLV3	ARNU363SVA4	ARNU363SVA4	LS181HSV5	LSN363HLV3	LSN363HLV3	LSN120HSV5
	CONDENSING UNIT	ODU-1	ODU-1	ODU-2	ODU-2	ODU-3	ODU-3	ODU-4	ODU-4	ODU-5	ODU-6	ODU-7	ODU-8	ODU-9	ODU-9	ODU-10	ODU-11	ODU-12	ODU-13
	LOCATION	620	620	713	713	307	307	265	265	249	250	839	840	818	818	924	923	890	669
	OPER. WT (LBS)	35	35	35	35	50	50	50	50	30	50	30	50	50	50	40	50	50	30
	ACCESSORIES	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	2 3 4	2 3 4	2 3 4	2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	2 3 4	2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

1. IDU POWERED BY ODU.
2. MANUFACTURER PROVIDED THERMOSTAT INTERFACE.
3. WALL MOUNTED NETWORK SENSOR.
4. FACTORY CONDENSATE PUMP (POWERED BY IDU) W/ OVERFLOW SAFETY SWITCH

NOTE: HIGH PROBABILITY SYSTEM PER CMC 1103.2 IN REGARDS TO REFRIGERANT.

OUTDOOR UNIT SCHEDULE

DESIGNATION	ODU 1	ODU 2	ODU 3	ODU 4	ODU 5	ODU 6	ODU 7	ODU 8	ODU 9	ODU 10	ODU 11	ODU 12	ODU 13
COOLING CAPACITY (MBH)	48.0	48.0	72.0	72.0	12.0	33.0	12.0	33.0	72.0	18.0	33.0	33.0	12.0
HEATING CAPACITY (MBH)	54	54	81	81	13.6	35.2	13.6	35.2	81	21.6	35.2	35.2	13.6
NOMINAL TONS	4	4	6	6	1	3	1	3	6	1.5	3	3	1
VOLTS/PHASE	208/1	208/1	460/3	460/3	208/1	208/1	208/1	208/1	460/3	208/1	208/1	208/1	208/1
FLA	29.2	29.2	10.8	10.8	7.4	15.3	7.4	15.3	10.8	15.1	15.3	15.3	7.4
MCA / MOCP	32.7 / 40	32.7 / 40	12.8 / 20	12.8 / 20	10 / 15	23 / 30	10 / 15	23 / 30	12.8 / 20	19 / 30	23 / 30	23 / 30	10 / 15
SEER2 / EER2 (AT ARI)			18.9 (IEER) / 10.4	18.9 (IEER) / 10.4	22 / 12.5	19 / 10	22 / 12.5	19 / 10	18.9 (IEER) / 10.4	22 / 12.55	19 / 10	19 / 10	22 / 12.5
COP / HPSF2	3.5 / -	3.5 / -	3.83 / -	3.83 / -	- / 10	- / 7.9	- / 10	- / 7.9	3.83 / -	- / 9.5	- / 7.9	- / 7.9	- / 10
AMBIENT (°F)	105	105	105	105	105	105	105	105	105	105	105	105	105
REFRIG. LINE SIZE													
LIQUID (IN.OD)	3/8	3/8	3/8	3/8	1/4	3/8	1/4	3/8	3/8	3/8	3/8	3/8	1/4
SUCTION (IN. OD)	3/4	3/4	5/8	5/8	3/8	5/8	3/8	5/8	5/8	5/8	5/8	5/8	3/8
REFRIG. TYPE	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
MANUFACTURER	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG	LG
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	LMU481HV	LMU481HV	ARUM072DTE5	ARUM072DTE5	LS120HSV5	LS363HLV3	LS120HSV5	LS363HLV3	ARUM072DTE5	LS18HSV5	LS363HLV3	LS363HLV3	LS120HSV5
OPER. WT (LBS)	250	250	450	450	100	180	100	180	450	120	180	180	100
ACCESSORIES	1	1	1	1	1	1	1	1	1	1	1	1	1

1. ELECTRICAL CONTRACTOR TO PROVIDE INTERLOCK POWER WIRING

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CANTELME
No. M23588
Exp. 9-30-25
MECHANICAL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP

4910 E. Clinton Way, Suite 101 (559) 431-0101 — 24069 — Fresno, CA 93727 FAX (559) 431-1362

LICENSED ARCHITECT BARRY LYNN MAST
PRELIMINARY
NOT FOR CONSTRUCTION
REN: 12-31-2025
STATE OF CALIFORNIA

ARCHITECT:
Barry Lynn Mast, Architect
California License Architect No. C 38769
Ren. 12-31-2025
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, 8th Floor
Fresno, California 93721

Office: (559) 600-4536
Email: bmast@fresnocountyca.gov

Project:

THE COUNTY OF FRESNO
DEPARTMENT OF BEHAVIORAL HEALTH
OLIVE AVE CAMPUS REMODEL
5555 E Olive Avenue, Fresno, California
APN: 45522312ST
Issue date: 2024-08-02
Project no.: T80317
File name: M101-M104 Mechanical Schedules

Sheet Content:

MECHANICAL SCHEDULES

Fresno County Department of Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

THE COUNTY OF FRESNO

Sheet No.:

M-102

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Plot Date: 2024-08-02

2 August, 2024 12:16 PM P:\2024\24069 Fresno County Behavioral Health Remodel\4-Drawings\4 M\M101-M104 Mechanical Schedules.dwg gary w

PACKAGE AIR CONDITIONING SCHEDULE

DESIGNATION		AC 1	AC 2	AC 3	AC 4	AC 5	AC 6	AC 7	AC 8	AC 9	AC 10	AC 11	AC 12
VOLTS/PHASE		460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3
MCA/MOCP (AMPS)		83.9 / 90	83.9 / 90	83.9 / 90	83.9 / 90	83.9 / 90	83.9 / 90	83.9 / 90	95.2 / 100	95.2 / 100	83.9 / 90	63.5 / 70	83.9 / 90
IEER/EER @ ARI		13.8 / 11.0	13.8 / 11.0	13.8 / 11.0	13.8 / 11.0	13.8 / 11.0	13.8 / 11.0	13.8 / 11.0	13.8 / 10.9	13.8 / 10.9	13.8 / 11.0	15.2 / 10.8	13.8 / 11.0
SEER2 / EER2		-	-	-	-	-	-	-	-	-	-	-	-
BLOWER	SUPPLY AIR (CFM)	6000	5625	5525	5700	5675	5725	5825	6875	6675	5525	4800	6225
	EXT. SP (IN. WC)	1.89"	1.89"	1.89"	1.89"	1.89"	1.89"	1.89"	1.84"	1.89"	1.89"	1.49"	1.84"
	MIN. O.S.A. (CFM)	720	880	1190	890	1700	725	2095	1125	1055	840	770	1085
	BHP	4.48	4.24	4.18	4.28	4.28	4.28	4.36	5.48	5.39	4.18	4.51	4.64
	RPM	1096	1152	1149	1155	1155	1155	1159	1144	1136	1149	1461	1175
	DRIVE	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT
COOLING	SENSIBLE (MBH)	119.5	116.9	116.2	117.4	117.4	117.4	118.2	150.6	148.5	116.2	92.4	121.1
	TOTAL (MBH)	161.8	161.5	161.4	161.6	161.6	161.6	161.6	213.9	212.8	161.4	138.8	161.3
	EADB/EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
	AMBIENT AIR (°F)	105	105	105	105	105	105	105	105	105	105	105	105
	UNIT DISCH. TEMP (°F)	61.6	60.8	60.5	60.9	60.9	60.9	61.2	59.7	59.4	60.5	62.2	62.0
	REFRIGERANT TYPE	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
	REFRIG. CLASSIFICATION	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L
	REFRIG. CAP. (LBS) / CRKT	17.25 / 19.25	14.25 / 19.25	17.25 / 19.25	17.25 / 19.25	17.25 / 19.25	17.25 / 19.25	17.25 / 19.25	27.25 / 27.5	27.25 / 27.5	17.25 / 19.25	16.0 / 15.5	17.25 / 19.25
HEATING	TOTAL CAPACITY (MBH)												
	EADB (°F)	60	60	60	60	60	60	60	60	60	60	60	60
	AMBIENT AIR (°F)	32	32	32	32	32	32	32	32	32	32	32	32
	TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	AUX. HEATING (kW)	23	23	23	23	23	23	23	23	23	23	18	23
FILTERS	QUANTITY/SIZE	-	-	-	-	-	-	-	-	-	-	-	-
	TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
	P.D (IN WC)	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"
MANUFACTURER		FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON
TYPE		PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP
MODEL NUMBER		MD15E1DP4F1CDEP	MD15E1DP4F1CDEP	MD15E1DP4F1CDEP	MD15E1DP4F1CDEP	MD15E1DP4F1CDEP	MD15E1DP4F1CDEP	MD15E1DP4F1CDEP	MD20E1DP4F1CDEP	MD20E1DP4F1CDEP	MD15E1DP4F1CDEP	WP150E18R4AADCA	MD15E1DP4F1CDEP
LOCATION		ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
OPER. WT (LBS)		2700	2700	2700	2700	2700	2700	2700	3000	3000	2700	1800	2700
ACCESSORIES		1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10

1. PROVIDE FACTORY SLOPED SEISMIC CURB
2. TITLE 24 COMPLIANT MODULATING ECONOMIZER AND POWER EXHAUST, INCLUDED IN MCA
3. EMS BACNET INTERGRATION
4. VFD FOR BALANCING
5. SUPPLEMENTAL ELECTRIC HEAT, INCLUDED IN MCA
6. FACOTRY PROVIDED HINGED ACCESS PANELS
7. ECM CONDENSER FANS WITH COIL GUARDS
8. DIGITAL 2-STAGE COMPRESSORS
9. SINGLE WALL CONSTRUCTION W/ S/S DRIP PANS
10. UNIT TO SHUTDOWN UPON SMOKE DETECTION, BY FIRE ALARAM. COORDINATE WITH DIVISION 26.

PACKAGE AIR CONDITIONING SCHEDULE

DESIGNATION		AC 13	AC 14	AC 15	AC 16	AC 17	AC 18	AC 19	AC 20	AC 21	AC 22	AC 23	AC 24
VOLTS/PHASE		460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3
MCA/MOCP (AMPS)		83.9 / 90	95.2 / 100	83.9 / 90	83.9 / 90	83.9 / 90	83.9 / 90	63.5 / 70	31.3 / 35	35.8 / 40	11.4 / 15	11.2 / 15	83.9 / 90
IEER/EER @ ARI		13.8 / 11.0	13.8 / 10.9	13.8 / 11.0	13.8 / 11.0	13.8 / 11.0	13.8 / 11.0	15.2 / 10.8	15.8 / 12.2	16.0 / 11.5	-	-	13.8 / 11.0
SEER2 / EER2		-	-	-	-	-	-	-	-	-	14.4 / 12.2	14.5 / 12.2	-
BLOWER	SUPPLY AIR (CFM)	6000	6500	5425	6000	6250	5675	4525	2400	3450	1600	1200	5825
	EXT. SP (IN. WC)	1.89"	1.84"	1.89"	1.89"	1.89"	1.89"	1.53"	1.85"	1.74"	1.48"	1.76"	1.89"
	MIN. O.S.A. (CFM)	1220	2000	795	1295	2125	725	1105	875	600	600	325	905
	BHP	4.48	5.31	4.12	4.48	4.66	4.26	4.06	1.54	2.63	1.61	1.30	4.36
	RPM	1166	1130	1145	1166	1176	1154	1405	1156	1225	1612	1585	1159
	DRIVE	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT
COOLING	SENSIBLE (MBH)	119.5	146.7	115.5	119.5	121.3	117.2	90.8	52.3	65.7	30.9	21.7	118.2
	TOTAL (MBH)	161.8	211.9	161.4	161.8	161.3	161.5	137.6	77.8	96.8	43.0	31.0	161.6
	EADB/EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
	AMBIENT AIR (°F)	105	105	105	105	105	105	105	105	105	105	105	105
	UNIT DISCH. TEMP (°F)	61.6	59.1	60.3	61.6	62	60.9	61.4	59.8	62.4	62.1	63.3	61.2
	REFRIGERANT TYPE	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
	REFRIG. CLASSIFICATION	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L	A2L
	REFRIG. CAP. (LBS) / CRKT	17.25 / 19.25	27.25 / 27.5	17.25 / 19.25	17.25 / 19.25	17.25 / 19.25	17.25 / 19.25	16.0 / 15.5	13.25 / 13.25	11.75 / 11.75	12.125	9.5	17.25 / 19.25
HEATING	TOTAL CAPACITY (MBH)												
	EADB (°F)	60	60	60	60	60	60	60	60	60	60	60	60
	AMBIENT AIR (°F)	32	32	32	32	32	32	32	32	32	32	32	32
	TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	AUX. HEATING (kW)	23	23	23	23	23	23	18	9	9	2.92	2.05	23
FILTERS	QUANTITY/SIZE	-	-	-	-	-	-	-	-	-	-	-	-
	TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
	P.D (IN WC)	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"
MANUFACTURER		FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON	FRASER-JOHNSTON
TYPE		PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP	PACKAGED - HP
MODEL NUMBER		MD15E1DP4F1CDEP	MD20E1DP4F1CDEP	MD15E1DP4F1CDEP	MD15E1DP4F1CDEP	MD15E1DP4F1CDEP	MD15E1DP4F1CDEP	WP150E18R4AADCA	WP078E09R4AADCA	WP102E09R4AADCA	WYE05A4C1AB7B114	WYE04A4C1AB7B114	MD15E1DP4F1CDEP
LOCATION		ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
OPER. WT (LBS)		2700	3000	2700	2700	2700	2700	1800	1500	1500	1000	1000	2700
ACCESSORIES		1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10

1. PROVIDE FACTORY SLOPED SEISMIC CURB
2. TITLE 24 COMPLIANT MODULATING ECONOMIZER AND POWER EXHAUST, INCLUDED IN MCA
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10. UNIT TO SHUTDOWN UPON SMOKE DETECTION, BY FIRE ALARAM. COORDINATE WITH DIVISION 26.

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NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER — MICHAEL D. CANTRELL — No. M23588 Exp. 9-30-25 — MECHANICAL — STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP
4910 E. Clinton Way, Suite 101, Fresno, CA 93727
(559) 431-0101 — 24069 — FAX (559) 431-1362

LICENSED ARCHITECT — ST. LYNN M. — REN: 12-31-2025 — STATE OF CALIFORNIA

PRELIMINARY
NOT FOR CONSTRUCTION

ARCHITECT:
Barry Lynn Mast, Architect
California License Architect No. C 38769
Ren. 12-31-2025
Fresno County Department of Public Works and Planning
Development Services and Capital Projects Division
2220 Tulare Street, 8th Floor
Fresno, California 93721

Office: (559) 600-4536
Email: bmast@fresnocountyca.gov

Project:

THE COUNTY OF FRESNO
DEPARTMENT OF BEHAVIORAL HEALTH
OLIVE AVE CAMPUS REMODEL
5555 E Olive Avenue, Fresno, California
APN: 45522312ST
Issue date: 2024-08-02
Project no.: T80317
File name: M101-M104 Mechanical Schedules

Sheet Content:

MECHANICAL SCHEDULES

Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

THE COUNTY OF FRESNO — 1856

Sheet No.:

M-103

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2 August, 2024 12:16 PM P:\2024\24069 Fresno County Behavioral Health Remodel\4 - Drawings\4 MEP\M101-M104 Mechanical Schedules.dwg gony

Plot Date: 2024-08-02

EXHAUST FAN SCHEDULE

DESIGNATION	EF 1	EF 2	EF 3	EF 4	EF 5	EF 6	EF 7	EF 8	EF 9	EF 10	EF 11	EF 12	EF 13
CFM	1125	200	1025	975	200	1225	300	200	100	100	100	50	100
EXT. S.P. (IN. WC)	0.2"	0.2"	0.2"	0.2"	0.2"	0.2"	0.5"	0.2"	0.1"	0.1"	0.1"	0.1"	0.1"
HP / BHP	1/4 / 0.19	1/8 / 0.02	1/6 / 0.15	1/6 / 0.15	1/8 / 0.02	1/2 /0.23	1/8 / 0.04	1/8 / 0.02	1/20 / 0.03	1/20 / 0.03	1/20 / 0.03	1/30 / 0.02	1/20 / 0.03
VOLTS / PHASE	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1	115/1
RPM	1507	1231	1595	1532	1231	1620	1519	1231	608	608	608	634	608
TIP SPEED/ SONES	- / 12.7	- / 4.2	- / 12.1	- / 11.2	- / 4.2	- / 14.6	- / 4.8	- / 4.8	- / -	- / -	- / -	- / -	- / -
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOUNTING	CURB	CURB	CURB	CURB	CURB	CURB	CURB	CURB	CEILING	CEILING	CEILING	CEILING	CEILING
MANUFACTURER	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY	TWIN CITY
TYPE	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	CEILING	CEILING	CEILING	CEILING	CEILING
MODEL NUMBER	VC-120	VC-085	VC-112	VC-112	VC-085	VC-120	VC-089	VC-089	T-150LPH	T-150LPH	T-150LPH	T-080LPH	T-150LPH
CONTROL	ECM	ECM	ECM	ECM	ECM	ECM	ECM	ECM	-	-	-	-	-
SERVES	AC-5	AC-7	AC-19	AC-20	AC-13	AC-14	AC-16, 21 & 23	AC-17	-	-	-	-	-
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	620	713	249	839	924
OPER. WT. (LBS)	100	80	80	80	80	100	80	80	15	15	15	15	15
ACCESSORIES	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	1 2 3 4 5	2	2	2	2	2

1. PROVIDE WITH SLOPED CURB (12 INCHES MINIMUM)
2. FACTORY PROVIDED BIRDSCREEN AND ALUMINUM BACKDRAFT DAMPER
3. FACTORY PROVIDED 0-10 VDC
4. FACTORY PROVIDED NEMA 1 DISCONNECT SWITCH (UNFUSED) - FIELD INSTALLED
5. TITLE 20 COMPLIANT

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY	TITUS MCD (TYPE 3) MODULAR CORE DIFFUSER WITH SQUARE OR RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING, AND NO. 26 OFF-WHITE FINISH. (18"X18" NECK ADAPTER SIZE SHOWN).
B	CEILING RETURN / EXHAUST	TITUS CORE 50F (TYPE 3) ALUMINUM EGG CRATE REGISTER WITH 1/2" x 1/2" GRID, FOR LAY-IN CEILING, AND NO. 26 OFF-WHITE FINISH.
C	CEILING SUPPLY	TITUS MCD (TYPE 1) MODULAR CORE DIFFUSER WITH SQUARE OR RECTANGULAR NECK DIFFUSER FOR SURFACE MOUNTING, AND NO. 26 OFF-WHITE FINISH.
D	CEILING RETURN / EXHAUST	TITUS CORE 50F (TYPE 1) ALUMINUM EGG CRATE REGISTER WITH 1/2" x 1/2" GRID, FOR SURFACE MOUNTING WITH NO. 26 OFF-WHITE FINISH.

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. CAMBELIN
No. M23588
Exp. 9-30-25
CIVIL MECHANICAL
STATE OF CALIFORNIA

FOR PLAN CHECK ONLY

LAWRENCE ENGINEERING GROUP
4910 E. Clinton Way, Suite 101 (559) 431-0101
24069
Fresno, CA 93727 FAX (559) 431-1362

LICENSED ARCHITECT
BARRY LYNN MAST
PRELIMINARY
NOT FOR CONSTRUCTION
REN: 12-31-2025
STATE OF CALIFORNIA

ARCHITECT:
Barry Lynn Mast, Architect
California License Architect No. C 38769
Ren. 12-31-2025
Fresno County Department of
Public Works and Planning
Development Services and
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Office: (559) 600-4536
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Sheet Content:

MECHANICAL SCHEDULES

Fresno County Department of
Public Works and Planning
Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.:

M-104

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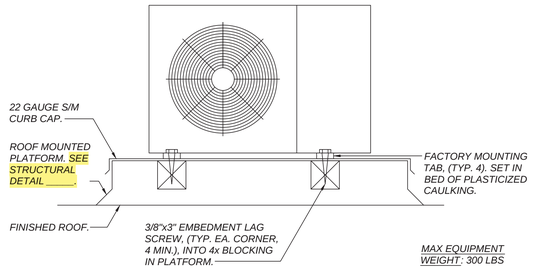
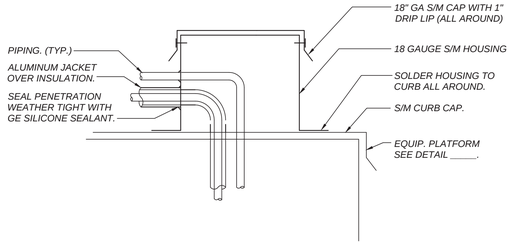
Plot Date: 2024-08-02



OUTDOOR UNIT MOUNTING DETAIL

L M105

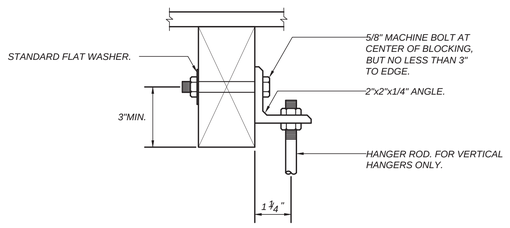
SCALE: NONE



PIPE THRU PLATFORM DETAIL

M M105

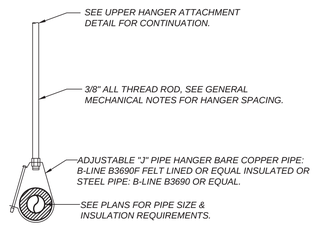
SCALE: NONE



UPPER HANGER CONNECTION

N M105

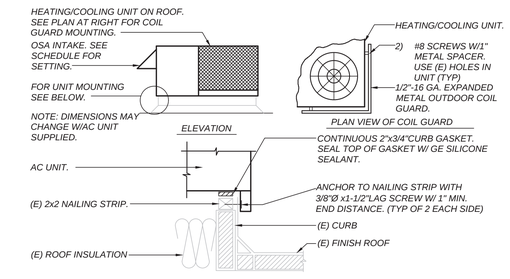
SCALE: NONE



SINGLE PIPE HANGING DETAIL

P M105

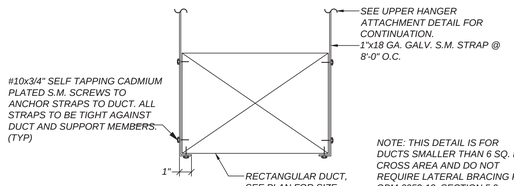
SCALE: NONE



AC UNIT MOUNTING DETAIL

Q M105

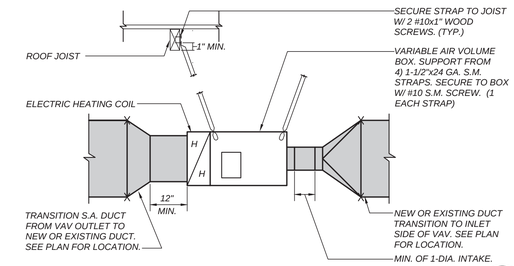
SCALE: NONE



RECTANGULAR DUCT HANGING DETAIL

F M105

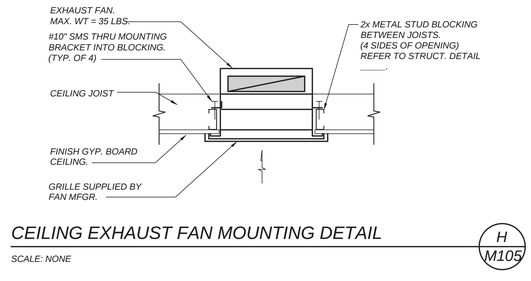
SCALE: NONE



VAV BOX MOUNTING DETAIL

G M105

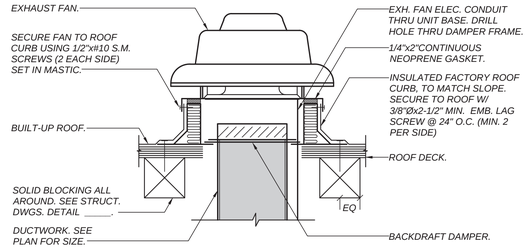
SCALE: NONE



CEILING EXHAUST FAN MOUNTING DETAIL

H M105

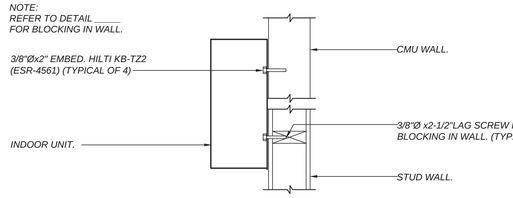
SCALE: NONE



ROOF EXHAUST FAN MOUNTING DETAIL

J M105

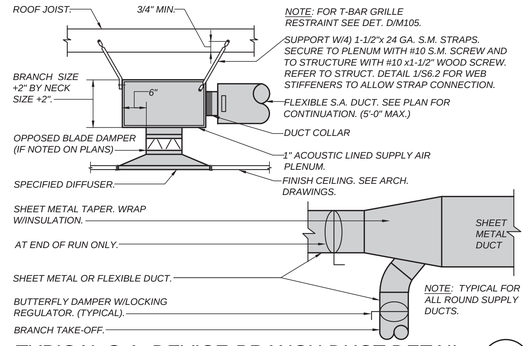
SCALE: NONE



INDOOR UNIT MOUNTING DETAIL

K M105

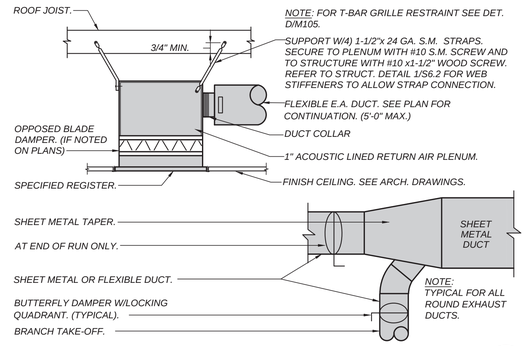
SCALE: NONE



TYPICAL S.A. DEVICE-BRANCH DUCT DETAIL

A M105

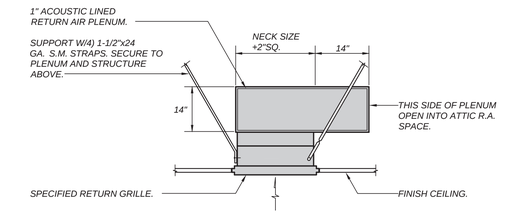
SCALE: NONE



TYPICAL E.A. DEVICE-BRANCH DUCT DETAIL

B M105

SCALE: NONE



RETURN AIR GRILLE DETAIL

C M105

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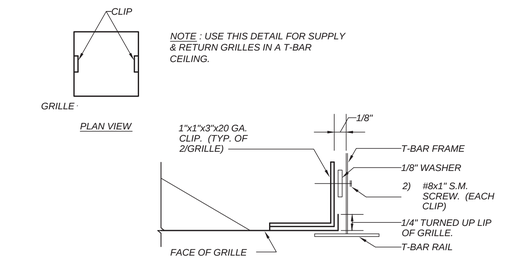

GRILLE RESTRAINT DETAIL

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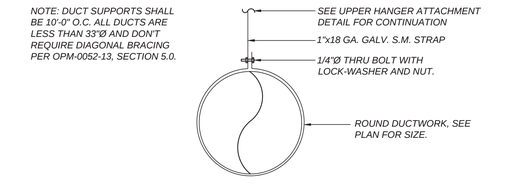

ROUND DUCT HANGING DETAIL

E M105

SCALE: NONE

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REGISTERED PROFESSIONAL ENGINEER — MICHAEL D. CANTRELL — No. M23588 Exp. 9-30-25 — MECHANICAL — STATE OF CALIFORNIA

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Project:

THE COUNTY OF FRESNO
DEPARTMENT OF BEHAVIORAL HEALTH
OLIVE AVE CAMPUS REMODEL
5555 E Olive Avenue, Fresno, California
APN: 45522312ST
Issue date: 2024-08-02
Project no.: T80317
File name: M105-M106 Mechanical Details

Sheet Content:

MECHANICAL DETAILS

Fresno County Department of Public Works and Planning
Capital Projects
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.:

M-105

Sheet of XX

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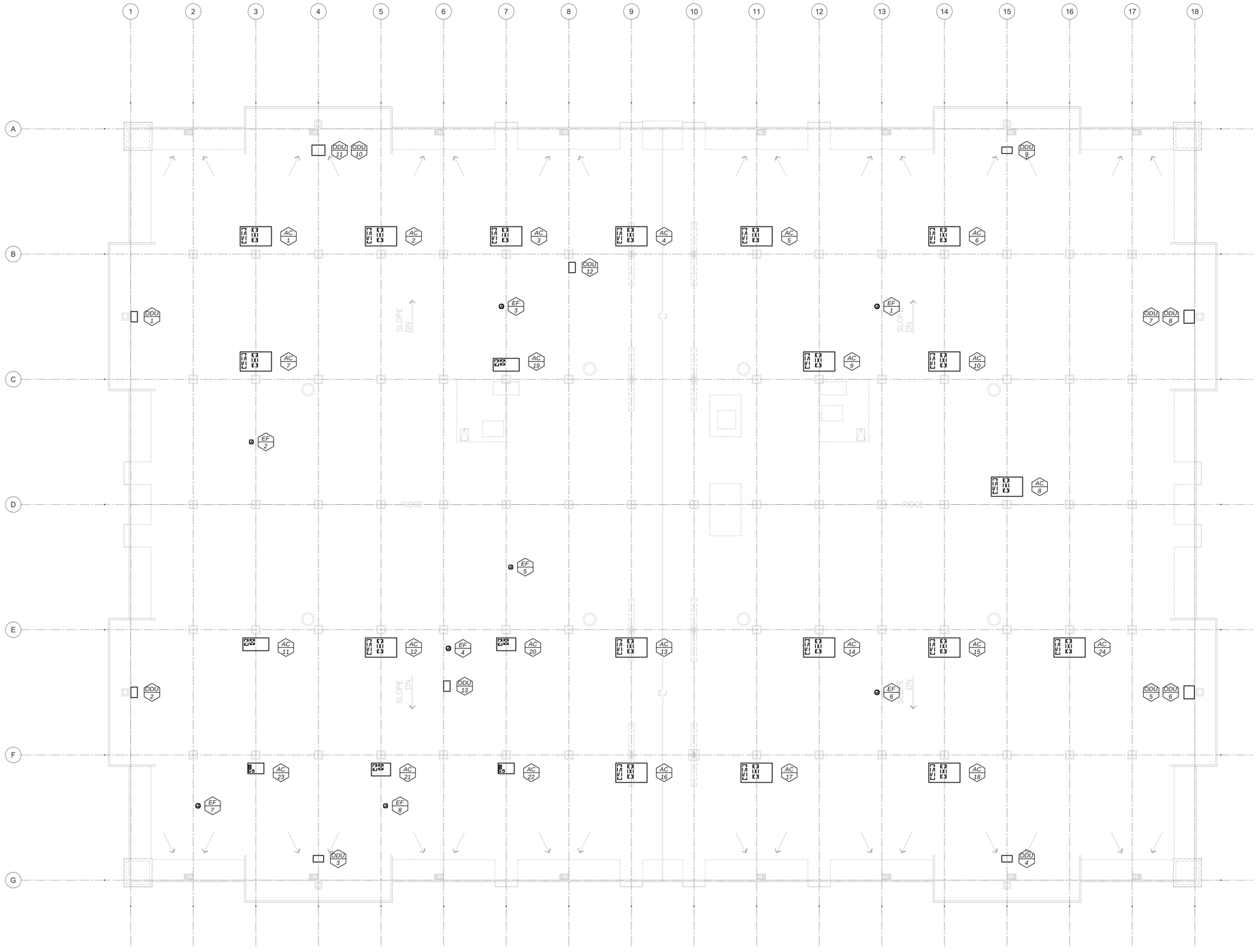
Plot Date: 2024-08-02



MECHANICAL ROOF PLAN - OVERALL

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

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THE COUNTY OF FRESNO
DEPARTMENT OF BEHAVIORAL HEALTH
OLIVE AVE CAMPUS REMODEL
5555 E Olive Avenue, Fresno, California
APN: 45522312ST
Issue date: 2024-08-02
Project no.: T80317
File name: M300-M304 - Mechanical Roof Plan

Sheet Content:

MECHANICAL ROOF PLAN - OVERALL

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Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.:

M-300

Sheet of XX

Plot Date: 2024-08-02

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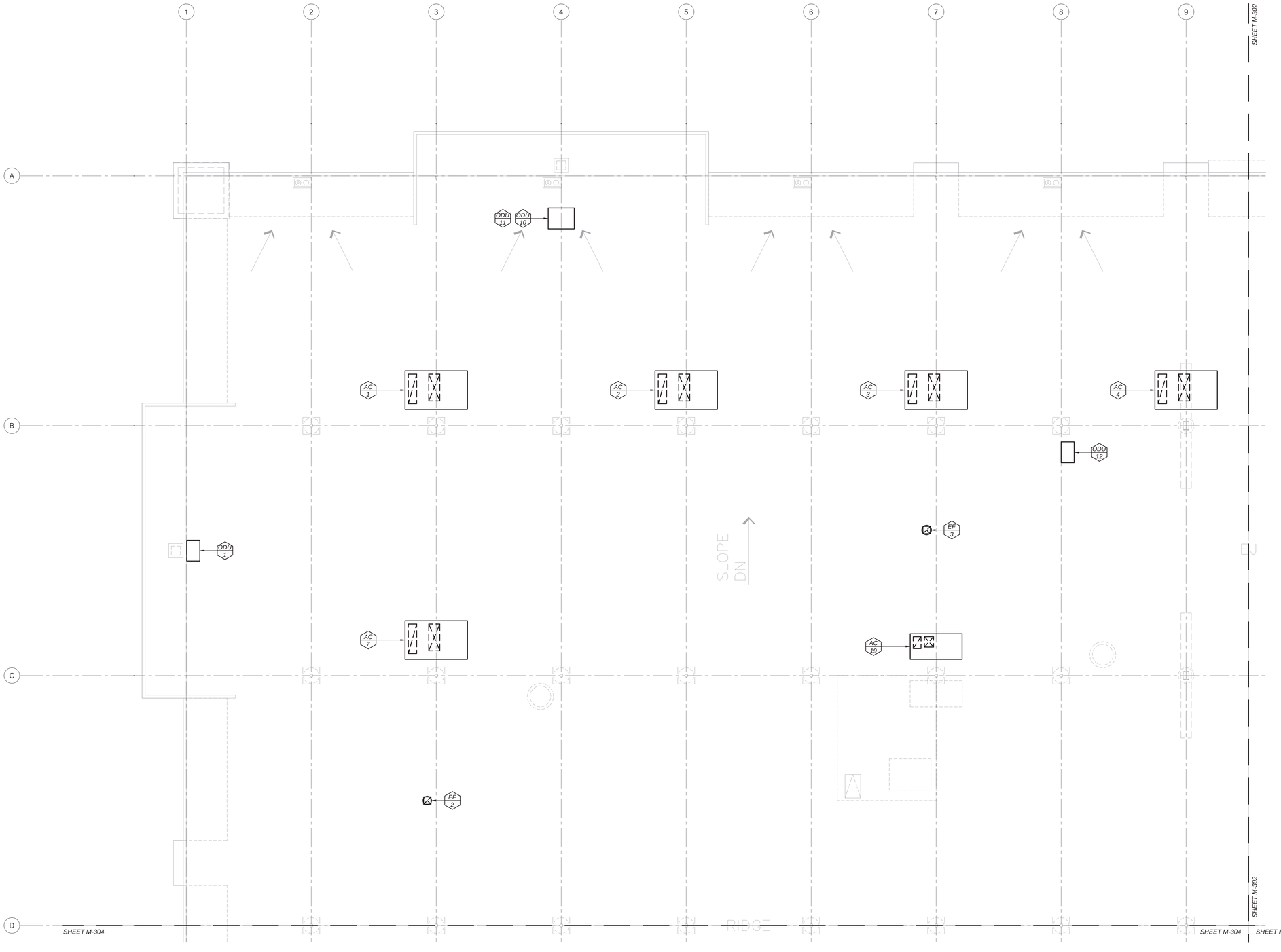

MECHANICAL ROOF PLAN - AREA A

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

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5555 E Olive Avenue, Fresno, California
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File name: M300-M304 - Mechanical Roof Plan

Sheet Content:

MECHANICAL ROOF PLAN - AREA A

Fresno County Department of
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Capital Projects

2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.:

M-301

Sheet of XX

Plot Date: 2024-08-02

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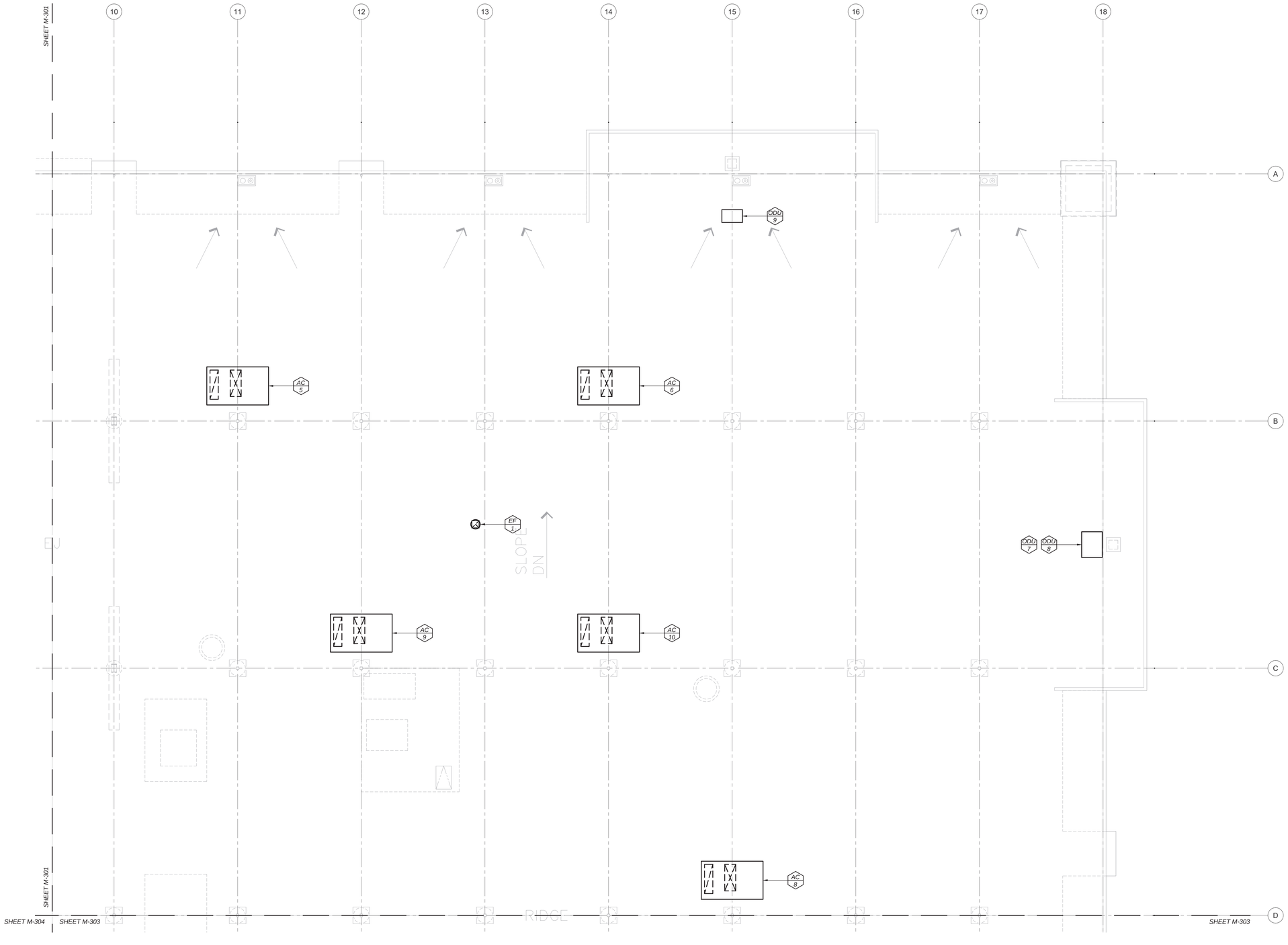

MECHANICAL ROOF PLAN - AREA B

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

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5555 E Olive Avenue, Fresno, California
APN: 45522312ST
Issue date: 2024-08-02
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File name: M300-M304 - Mechanical Roof Plan

Sheet Content:

MECHANICAL ROOF PLAN - AREA B

Fresno County Department of
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Capital Projects

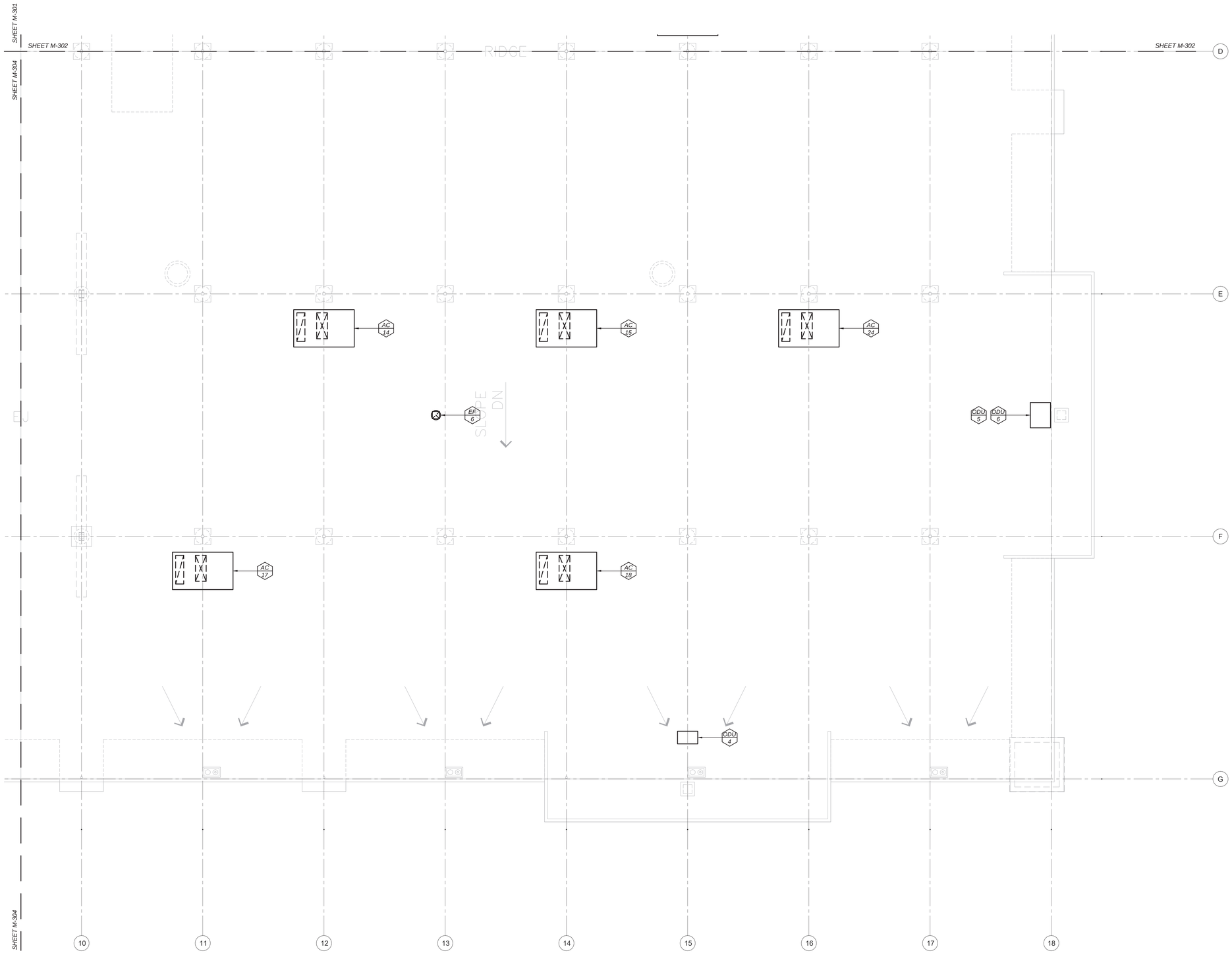
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.:

M-302

Sheet of XX

Plot Date: 2024-08-02



MECHANICAL ROOF PLAN - AREA C

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

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5555 E Olive Avenue, Fresno, California
APN: 45522312ST
Issue date: 2024-08-02
Project no.: T80317
File name: M300-M304 - Mechanical Roof Plan

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MECHANICAL ROOF PLAN - AREA C

Fresno County Department of
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Capital Projects

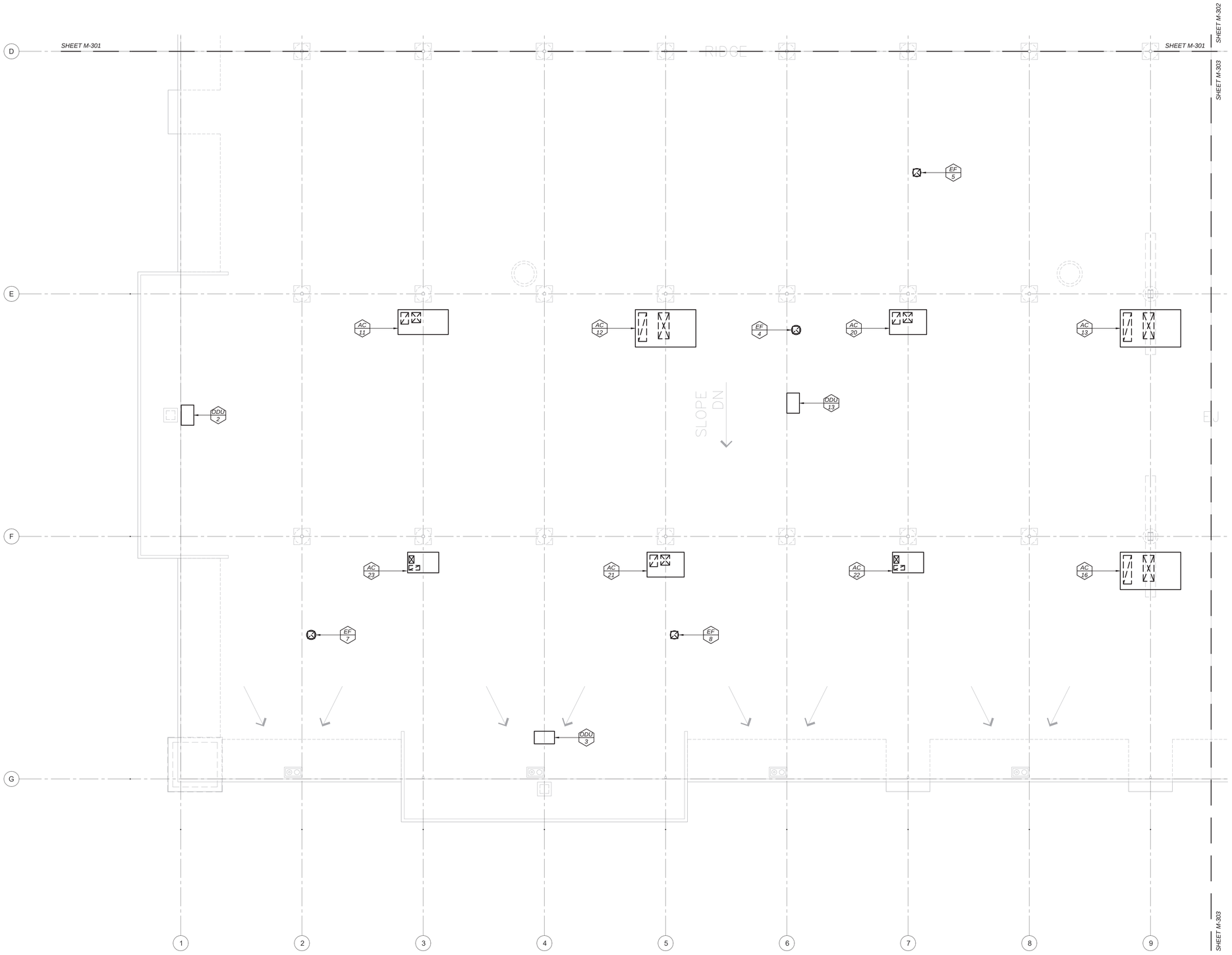
2220 Tulare Street, 8th Floor
Fresno, California 93721

Sheet No.:

M-303

Sheet of XX

Plot Date: 2024-08-02



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MECHANICAL ROOF PLAN - AREA D

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

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5555 E Olive Avenue, Fresno, California
APN: 455223125T
Issue date: 2024-08-02
Project no.: T80317
File name: M300-M304 - Mechanical Roof Plan

Sheet Content:

MECHANICAL ROOF PLAN - AREA D

Fresno County Department of
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2220 Tulare Street, 8th Floor
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Sheet No.:

M-304

Sheet of XX

Plot Date: 2024-08-02