

Agenda Item A.7
CONSENT CALENDAR
Meeting Date: September 16, 2025

TO: Mayor and Councilmembers

**SUBMITTED BY:** Matthew R. Fore, General Services Director

**SUBJECT:** Authorization to Advertise Construction Bid for the Replacement of

Heating, Ventilation, and Air Conditioning Rooftop Units 11 and 13

at City Hall

#### **RECOMMENDATION:**

Authorize Staff to advertise a notice inviting construction bids for the Replacement of Heating, Ventilation, and Air Conditioning Rooftop Units 11 and 13 at City Hall.

#### **BACKGROUND:**

City Hall is equipped with a comprehensive heating, ventilation, and air conditioning (HVAC) system, which is comprised of multiple heating and air conditioning units. In May of 2024, Beyond Air, Inc. (Beyond Air), the City's contract HVAC maintenance vendor, noted that two units, Rooftop Units (RTUs) 11 and 13, were failing and in need of replacement.

On May 21, 2024, City Council authorized the City Manager to execute Agreement No. 2024-046 (Agreement) with RRM Design Group (RRM). The purpose of the Agreement is to assist the City to design several improvements to City Hall, including: 1) workspaces; 2) replacement of mechanical and life safety systems; and 3) Americans with Disabilities Act improvements, including installation of an elevator. As part of the Agreement, RRM further evaluated the condition of the units. In February 2025, 3C, a mechanical engineering subcontractor to RRM, verified and confirmed the findings and recommendations of Beyond Air, and thus recommended that the City replace the subject RTUs.

#### **DISCUSSION:**

RRM and its subcontractor 3C have developed plans and specifications to replace the RTUs. The plans are in final review by the City Building Division and issuance of a building permit is imminent. Staff is therefore requesting Council authorization to issue a Notice Inviting Construction Bids for the replacement of RTUs 11 and 13. The issued permit plan set is included as Attachment 1.

Meeting Date: September 16, 2025

Staff will return to Council in the future (est. Fall of 2025) to request that Council formally approve the project plans and specifications that are part of the bid documents and to adopt findings pursuant to the California Environmental Quality Act.

#### **GOLETA STRATEGIC PLAN:**

City-Wide Initiative: 5. Strengthen Infrastructure

**Strategic Goal:** 5.4 Protect and maintain our City-owned facilities and critical operational assets.

#### **FISCAL IMPACTS:**

There are no fiscal impacts associated with this Council item. Once bids are received, Staff will return to Council with a request to appropriate funds from the Facility and Equipment Reserve to cover the cost of this construction work.

**LEGAL REVIEW BY:** Isaac Rosen, City Attorney

**APPROVED BY:** Robert Nisbet, City Manager

#### ATTACHMENT:

1. Plan Set for the Replacement of Rooftop Units 11 & 13 at City Hall

#### ATTACHMENT 1

Plan Set for the Replacement of Rooftop Units 11 & 13 at City Hall

# GOLETA CITY HALL HVAC UNIT REPLACEMENT

130 CREMONA DRIVE, GOLETA CA 93117

## **ABBREVIATIONS**

A/C AIR CONDITIONING FOM FACE OF MASONRY PAVEMENT ABV ABOVE QUANTITY ACOUS ACOUSTICAL RADIUS, RISER ACT ACOUSTICAL CEILING TILE FOOT OR FEET **RUBBER BASE** ADA AMERICANS WITH DISABILITIES ACT FOOTING REFLECTED CEILING PLAN AFCI ARC FAULT CIRCUIT INTERRUPTER GAUGE, GAGE **ROOF DRAIN** ABOVE FINISH FLOOR GALV GALVANIZED REFRIGERATOR ALUMINUM GRAB BAR REINF REINFORCED ALT ALTERNATE GC GENERAL CONTRACTOR REQD REQUIRED ARCH ARCHITECT(URAL) GFCI GROUND FAULT CIRCUIT INTERRUPTER RIGHT HAND GT BOARD GROUT ROOM BDRM BEDROOM GWB GYPSUM BOARD **ROUGH OPENING** BETWEEN GYP ROOF TOP UNIT (MECH) GYPSUM BITUMINOUS HOSE BIBB SOUTH SAFB SOUND ATTENUATION FIBER BATT BLDG BUILDNG HOLLOW CORE SAWP SELF ADHEREING WATERPROOFING BLKG BLOCKING HDWD HARDWOOD BLW BELOW HDWR HARDWARE SCUPPER/SOLID CORE HGT HEIGHT BEAM SCHED SCHEDULE BOTTOM **HOLLOW METAL** SEAL SEALANT SECT SECTION BUILT UP ROOF HORIZ HORIZONTAL CATCH BASIN HVAC HEATING, VENTILATION, A/C SQUARE FOOT CBC CALIFORNIA BUILDING CODE INSIDE DIAMETER SHT SHEET CEM CEMENT IMPACT INSULATION CLASS SHTHG SHEATHING CFM **CUBIC FEET PER MINUTE** SIM SIMILAR CAST IN PLACE INCAND INCANDESCENT SHEET METAL CONTROL JOINT SPEC SPECIFICATION INSULATION, INSULATED **CENTER LINE** INTERIOR SQURE SOLID SURFACE CEILING JANITORS CLOSET CLO CLOSET JOINT STAINLESS STEEL CLR CLEAR LAM LAMINATE SOUND TRANSMISSION CLASS CMU CONCRETE MASONRY UNIT STD STANDARD LAVATORY CLEAN OUT LBS POUNDS STL STEEL COL COLUMN LEADERSHIP IN ENERGY AND STOR STORAGE **ENVIRONMENTAL DESIGN** STRUCT STRUCTURAL CONC CONCRETE LINEAR FEET CONST CONSTRUCTION SUSP SUSPENDED LINEN CLOSET CONT CONTINUOUS SHEET VINYL LINO LINOLEUM CONTR CONTRACTOR SYMMETRICAL LT(G) LIGHT(ING) CPT CARPET CERAMIC TILE LAMINATED VENEER LUMBER TONGUE & GROOVE LUXURY VINYL TILE CTR CENTER TACKBOARD LIGHTWEIGHT DOUBLE TELEPHONE MAX MAXIMUM DRINKING FOUNTAIN TEMPERED TEMP MEDIUM DENSITY FIBERBOARD DIAMETER, DIAPHRAGM TER TERRAZZO MECH MECHANICAL THICK DIMENSION MEMB MEMBRANE DOWN THRESHOLD DOOR MECHANICAL, ELECTRICAL, PLUMBING TRUSS JOIST I-JOIST TJI MFR MANUFACTURER TO DOWN SPOUT TOP OF MIN MINIMUM DETAIL TOS TOP OF SLAB MISCELLANEOUS DISHWASHER TOW TOP OF WALL MASONRY OPENING TRANS **DRAWING** TRANSFORMER MTD MOUNTED **EXISTING TELEVISION** MTL EAST TYPICAL EACH UNIFORM FEDERAL ACCESSIBILITY NOT IN CONTRACT STANDARDS EXPANSION JOINT UNDERGROUND NUMBER **ELEVATION** NOM NOMINAL UNFIN UNFINISHED NTS ELEC ELECTRIC NOT TO SCALE UNLESS NOTED OTHERWISE **ENCL** ENCLOSURE ULTRAVIOLET **OVERFLOW PIPE** EQ EQUAL ON CENTER VCT VINYL COMPOSITION TILE

OD

OFF

OPP

OVERFLOW DRAIN

OPPOSITE HAND

OFFICE

OPPOSITE

PERP PERPENDICULAR

PROPOSED

PAINT GRADE

PLAM PLASTIC LAMINATE

POWER POLE

PLATE, PROPERTY LINE

PSF POUNDS PER SQUARE FOOT

PRESSURE TREATED

POUNDS PER SQUARE INCH

PARALLEL STRAND LUMBER

OPG OPENING

PERM PERIMETER

PLBG PLUMBING

PLYWD PLYWOOD

PRTN PARTITION

PV PHOTO VOLTAIC

PVC POLYVINYL CHLORIDE

PNL PANEL

**VERT** 

VWC

VERTICAL

WEST

WITH

WOOD

WINDOW

WINDOW

WSCT WAINSCOT

WT WEIGHT

YD YARD

VERIFY IN FIELD

WASHER DRYER WITHOUT

WATERCLOSET

WATER HEATER

WROUGHT IRON

WATERPROOF(ING) WEATHER RESISTIVE

WRB WATER RESISTIVE BARRIER

WWF WELDED WIRE FABRIC

VENT TERMINATION PIPE

VINYL WALL COVERING

# **GENERAL NOTES**

USE OF PLANS: THESE PLANS ARE THE PROPERTY OF RRM AND MAY NOT BE USED WITHOUT THE EXPRESS, WRITTEN CONSENT.

THESE NOTES APPLY TO ALL PORTIONS. PHASES AND SUBCONTRACTORS OF APPLICABLE CODES ARE STANDARDS: 2022 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.

- 2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS. 2022 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND
- 2022 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS. 2022 CALIFORNIA ELECTORAL CODE AND ITS APPENDICES AND • 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICES AND STANDARDS. CURRENT CITY OF GOLETA MUNICIPAL CODE.
- 1. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO, HE/SHE SHALL BE
- PRECEDING AT HIS/HER OWN RISK. 2. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. ALL DIMENSIONS ARE ROUGH AND TO THE FACE
- 3. CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS. 4. CONTRACTOR TO REVIEW CALIFORNIA GREEN BUILDING CODE
- REQUIREMENTS FOR CONTRACTOR REQUIREMENTS. 5. TEMPORARY FACILITIES: CONTRACTOR SHALL PAY FOR, PROVIDE AND MAINTAIN TEMPORARY FACILITIES FOR PROJECT PROTECTION AND CONSTRUCTION, AND AS REQUIRED BY LOCAL REGULATION AND THESE DOCUMENTS. SUCH FACILITIES INCLUDE, BUT ARE NOT LIMITED TO: TOILETS, LIGHTS, HEATERS, POWER, GAS FANS, WATER, PHONES, FENCES, SIGNS, SHEDS, ETC. REMOVE FROM SITE UPON COMPLETION OF WORK. OBTAIN BUILDING OFFICIAL OR FIRE MARTIAL APPROVAL PRIOR TO USE OF ANY
- 6. CONTRACTOR SHALL PROVIDE FOR PROTECTION AND SAFETY: RESPONSIBLE FOR ALL ITEMS (SIGNS, LIGHTS, FENCES, BRACING, ANCHOR-AGE, FIRE-EXTINGUISHERS, ETC.) NECESSARY FOR THE PROTECTION OF THE PUBLIC, WORKERS, MATERIALS, CONSTRUCTION AND PROPERTY PER LOCAL, STATE, AND FEDERAL REQUIREMENTS (INCLUDING EARTHQUAKES, FIRES, SPILLS,
- ACCIDENTS, EROSION, MUD, DUST ETC.) 7. A SEPARATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR RECIPROCAL ACCESS EASEMENT/AGREEMENT MAY BE REQUIRED TO ENSURE THAT THE PROPOSED PRIVATE ACCESS ROADWAY WILL REMAIN OPEN TO THROUGH TRAFFIC AND EMERGENCY VEHICLES PRIOR TO FINAL OF BUILDING PERMIT. 8. SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATOR'S SHOP.

9. OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR GREATER.

-VIEW SHEET LOCATION

REFERENCE SHEET LOCATION

**GRID REFERENCE** 

**DETAIL REFERENCE** 

CENTERLINE

-VIEW TITLE

20 View Name

A-101 A-202 SCALE: 1/8" = 1'-0"

**NORTH ARROW** 

INTERIOR ELEVATIONS

**REVISION TAG** 

**SYMBOLS** 

# PROJECT DIRECTORY

**OWNER** CITY OF GOLETA ADDRESS: 130 CREMONA DRIVE, SUITE B GOLETA CA 93117 CONTACT: PATRICK ZUROSKE EMAIL: pzuroske@cityofgoleta.org P:(805) 690-5128 **RRM DESIGN GROUP** ADDRESS: 3765 S. HIGUERA ST. #102 SAN LUIS OBISPO, CA 93401

CONTACT: CHARLES DELLINGER EMAIL: cadellinger@rrmdesign.com P:(805) 543-1794

STRUCTURAL RRM DESIGN GROUP **ENGINEER** ADDRESS: 3765 S. HIGUERA ST. 102 SAN LUIS OBISPO, CA 93401 CONTACT: MICHAEL DOREMUS EMAIL: msdoremus@rrmdesign.com P:(805) 543-1794

MECHANICAL 3C ENGINEERING **ENGINEER** ADDRESS: 1500 PALM STREET SAN LUIS OBISPO, CA 93401 CONTACT: DENVER STANGER

EMAIL: dstanger@3ceng.com P:(805) 540-3363 **ELECTRICAL** THOMA ELECTRIC, INC. **ENGINEER** 

ADDRESS: 3562 EMPLEO STREET, SUITE C SAN LUIS OBISPO, CA 93401 CONTACT: CHRIS JOSE EMAIL: cjose@thomaelec.com P:(805) 543-3850

# PROJECT INFORMATION

1. REMOVAL OF TWO (2) EXISTING HVAC ROOFT OF HVAC UNITS. DEMOCTION OF SUPPORT CURBS, AND PARTIAL DEMOLITION OF  ${\cal Y}$ INSTALLATION OF TWO (2) NEW ROOFTOP HVAC UNITS AND CONSTRUCTION OF NEW SUPPORT CURBS, LIMITED ROOFING AND FLASHING, AND NEW DUCTWORK. 3. CONSTRUCTION OF NEW STRUCTURAL FRAMING AND CONNECTIONS. ALL OTHER WORK INDICATED IN THE CONTRACT DOCUMENTS. DESCRIPTION

OCCUPANCY: **CONSTRUCTION TYPE** V-B FIRE SPRINKLERED: BUILDING HEIGHT: NUMBER OF STORIES **BUILDING AREA:** 37,803 SF

## **SHEET INDEX**

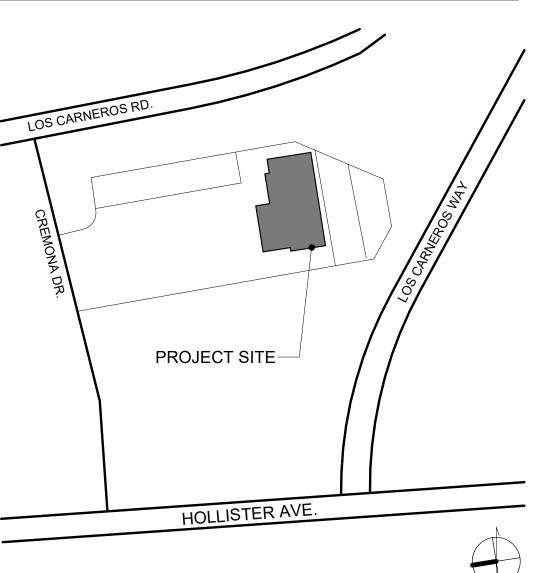
**GENERAL** G-001 TITLE SHEET A-101 OVERALL PLANS A-111 SECOND FLOOR PARTIAL RCP PARTIAL ROOF PLANS - DEMO & NEW SHEET INDEX, ABBREVIATIONS & SYMBOLS **GENERAL NOTES** ROOF FRAMING PLAN ROOF FRAMING DETAILS MECHANICAL SCHEDULES & DETAILS PARTIAL ROOF PLANS ENERGY COMPLIANCE EC-000 ENERGY COMPLIANCE DOCUMENTATION GENERAL NOTES. LEGEND, AND ABBREVIATIONS

SINGLE LINE DIAGRAM ELECTRICAL ROOF PLAN ELECTRICAL FIRST FLOOR PLAN ELECTRICAL SECOND FLOOR PLAN

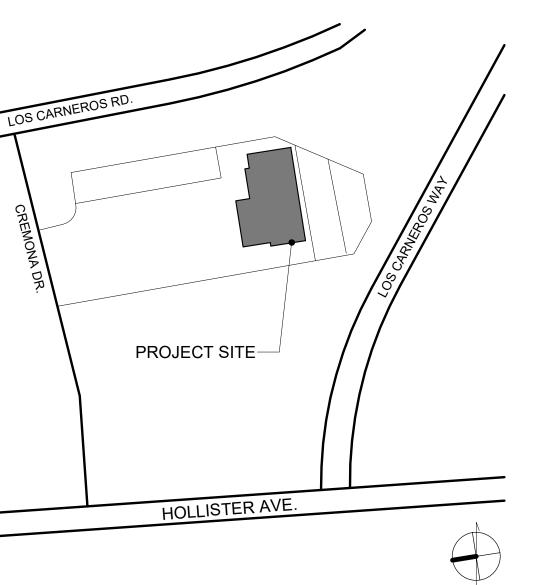
SHEET COUNT: 17

# **SUPPORTING DOCUMENTS**

STRUCTURAL CALCULATIONS RRM DESIGN GROUP PREPARED BY: DATE PREPARED JULY 15, 2025 JOB NUMBER: 1806-03-PS24 **ENERGY COMPLIANCE** PREPARED BY: 3C ENGINEERING DATE PREPARED MAY 9, 2025 JOB NUMBER: 1806-03-PS24



# **VICINITY MAP**



30

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	08/25/25

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CONSULTANT

PROJECT MANAGER AUGUST 25, 2025

1806-03-PS24

EQUIP EQUIPMENT

EXP EXPANSION

FAU FORCED AIR UNIT

FLOOR DRAIN

FACP FIRE ALARM CONTROL PANEL

FIRE EXTINGUISHER

FINISHED GRADE

FIRE HOSE CABINET

FIRE HYDRANT

FAWP FLUID APPLIED WATERPROOFING

FIRE DEPARTMENT CONNECTION

FIRE EXTINGUISHER CABINET

FINISHED FLOOR ELEVATION

FOIC FURNISHED BY OWNER INSTALLED BY

EXT EXTERIOR

FIXT FIXTURE

FLR FLOOR

FLUOR FLOURESCENT

FND FOUNDATION

FOC FACE OF CONCRETE

CONTRACTOR

FOF FACE OF FINISH

FO FACE OF

EXH EXHAUST

**DEFFERED SUBMITTALS** 

1. FIRE ALARM SYSTEM

LEVEL-

LEVEL-

**BUILDING LEVELS** 

Room name

RM#

**ROOM TAG** 

**DOOR TAG** 

**WALL TAG** 

STOREFRONT TAG

**MATERIAL TAG** 

**ELEVATION** 

DESIGNATION

**SEPARATE SUBMITTALS** 

NONE.





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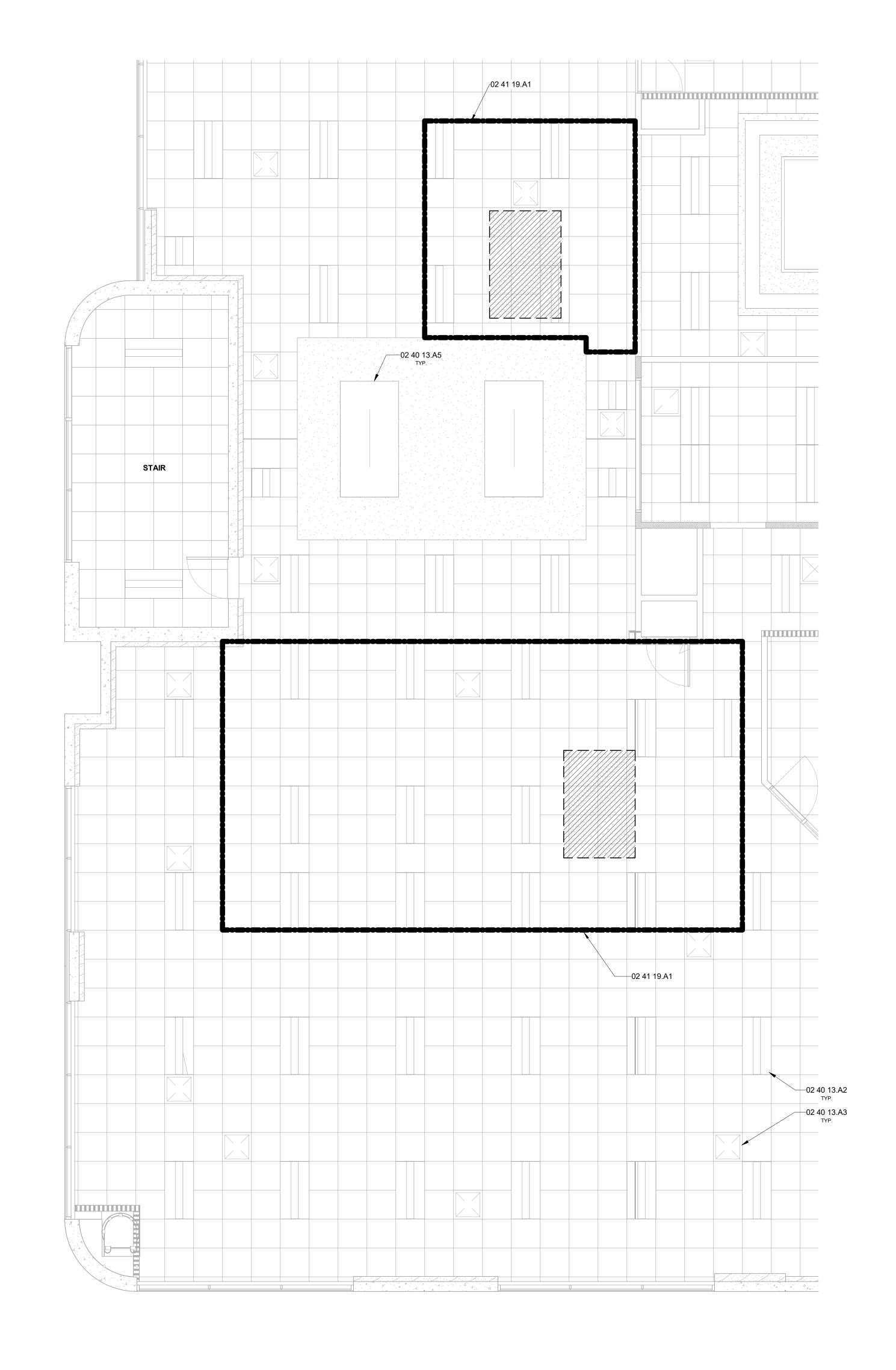


GOLETA CITY HALL - H REPLACEMENT

NO. REVISION DATE  PLAN CHECK RESPONSE 1 08/25/25			
PLAN CHECK RESPONSE 1 08/25/25	NO.	REVISION	DATE
	1	PLAN CHECK RESPONSE 1	08/25/25

PROJECT MANAGER

AUGUST 25, 2025 1806-03-PS24



NOTE: THE INSTALLATION OF THE NEW GLU-LAM BEAM ON THE SECOND FLOOR MAY REQUIRE SPECIAL MEANS AND METHODS DUE TO LIMITED ACCESS. CONTRACTORS SHALL ACCOUNT FOR ALL NECESSARY EQUIPMENT, LABOR, AND COORDINATION EFFORTS NECESSARY TO TRANSPORT AND INSTALL THE BEAM IN ITS FINAL LOCATION. THIS MAY INCLUDE EXPLORATION OF ALTERNATIVE ACCESS ROUTES AND/OR PARTIAL DISASSEMBLY OF EXISTING ELEMENTS. CONTRACTORS SHALL COORDINATE THIS PROCESS WITH THE CITY OF GOLETA.

SECOND FLOOR PARTIAL REFLECTED CEILING PLAN A-101 A-111 SCALE: 1/4" = 1'-0"

# **RCP GENERAL NOTES**

1. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION. 2. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. 3. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.



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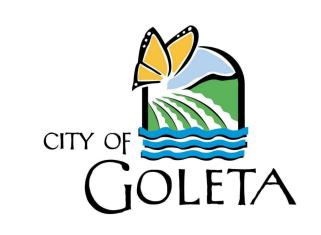


# **KEYNOTES**

02 40 13.A2 EXISTING LIGHT FIXTURE 02 40 13.A3 EXISTING MECHANICAL REGISTER

02 40 13.A5 EXISTING SKYLIGHT

02 41 19.A1 REMOVE AND PROTECT EXISTING CEILING GRID SYSTEM AND TILES, LIGHT FIXTURES, REGISTERS AND OTHER COMPONENTS. REPAIR OR REPLACE ANY DAMAGED CEILING COMPONENTS OR FIXTURES.



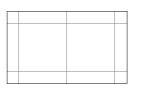
# **LEGEND**

AREA OF WORK, SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

GENERAL LOCATION OF MECHANICAL UNIT ABOVE



EXISTING GYPSUM BOARD CEILING

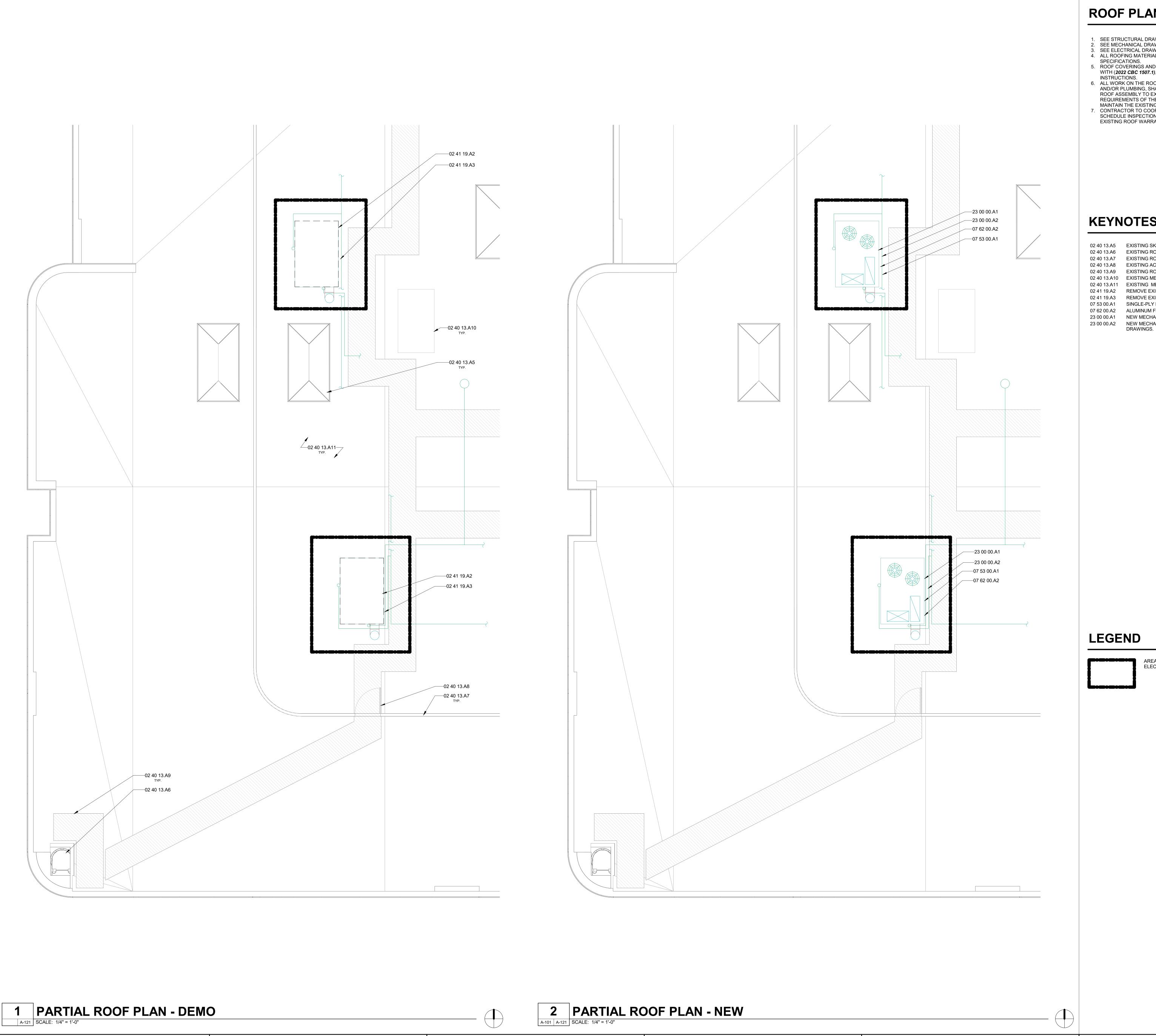


EXISTING ACOUSTICAL TILE CEILING

 $\bigcirc$ 

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1	PLAN CHECK RESPONSE 1	08/25/25

PROJECT MANAGER AUGUST 25, 2025 PROJECT NUMBER 1806-03-PS24



# **ROOF PLAN GENERAL NOTES**

- 1. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- 2. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. 3. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 4. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S
- 5. ROOF COVERINGS AND UNDERLAYMENT SHALL BE APPLIED IN ACCORDANCE WITH (2022 CBC 1507.1), AND MANUFACTURER'S INSTALLATION
- 6. ALL WORK ON THE ROOF, INCLUDING PENETRATIONS FOR MECHANICAL AND/OR PLUMBING, SHALL BE PATCHED AND REPARIED WITH A MATCHING ROOF ASSEMBLY TO EXISTING. WORK SHALL ADHERE TO THE REQUIREMENTS OF THE WARRANTY OF THE EXISTING ROOF SYSTEM TO
- MAINTAIN THE EXISTING WARRANTY. 7. CONTRACTOR TO COORDINATE WITH EXISTING ROOF MANUFACTURER TO SCHEDULE INSPECTIONS THAT MAY BE REQUIRED TO MAINTAIN THE EXISTING ROOF WARRANTY.



CONSULTANT

AGENCY

# **KEYNOTES**

02 40 13.A5 EXISTING SKYLIGHT 02 40 13.A6 EXISTING ROOF ACCESS LADDER

02 40 13.A7 EXISTING ROOF SCREEN

02 40 13.A8 EXISTING ACCESS GATE 02 40 13.A9 EXISTING ROOF WALKING PADS

02 40 13.A10 EXISTING MECHANICAL UNIT TO REMAIN 02 40 13.A11 EXISTING MEMBRANE ROOFING 02 41 19.A2 REMOVE EXISTING MECHANICAL UNIT

02 41 19.A3 REMOVE EXISTING MECHANICAL UNIT SUPPORT CURBS 07 53 00.A1 SINGLE-PLY MEMBRANE ROOFING

07 62 00.A2 ALUMINUM FLASHING

23 00 00.A1 NEW MECHANICAL UNIT, SEE MECHANICAL DRAWINGS. 23 00 00.A2 NEW MECHANICAL UNIT SUPPORT CURBS, SEE MECHANICAL

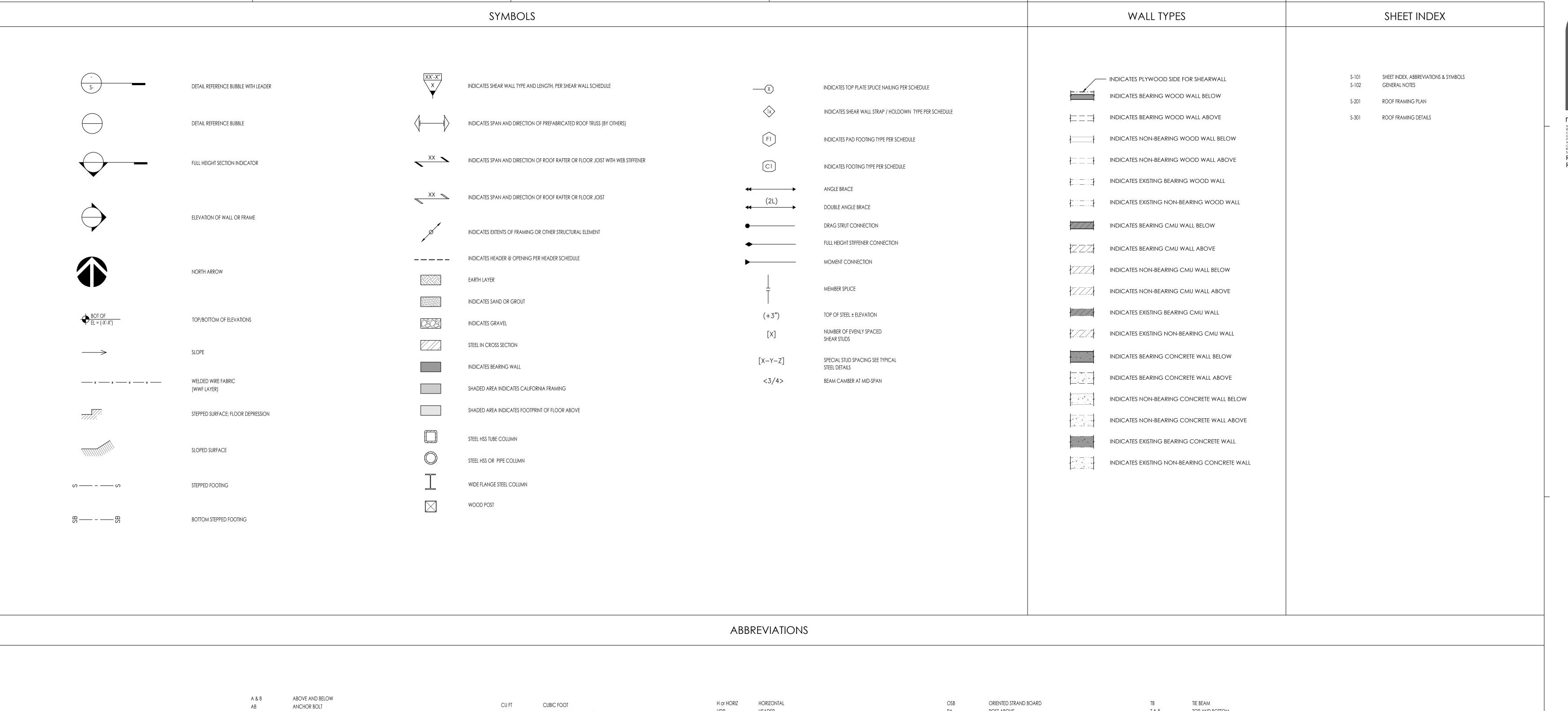


AREA OF WORK, SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

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NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	08/25/25

AUGUST 25, 2025 1806-03-PS24

A-121



T & B TOP AND BOTTOM T&G TONGUE & GROOVE TOP OF TOC TOP OF CURB; TOP OF CONCRETE TOF TOP OF FOOTING TEMPERATURE; TEMPORARY THRU THROUGH THICKNESS/THICK THREADED TOP or T TOP TOS TOP OF STEEL/TOP OF SLAB TOW TOP OF WALL TRIMMER STUD TYPICAL UNLESS NOTED OTHERWISE **ULTRA-SONIC TEST** VERTICAL VSH VERTICAL SLOTTED HOLES WITHOUT WHERE OCCURS WOOD WORK POINT; WATERPROOF WWF WELDED WIRE FABRIC AMERICAN STD CHANNEL SHAPE MISC CHANNEL SHAPE ANGLE SHAPE WT, ST, MT STRUCT TEE SHAPE STANDARD PIPE SHAPE PIPE-X EXTRA STRONG PIPE SHAPE PIPE-XX DBL EXTRA STRONG PIPE SHAPE HOLLOW STRUCTURAL SECTION

SYMMETRICAL

SYM

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HEADER POST ABOVE PENNY (NAIL OR BAR DIA) ABOVE PARA OR // PARALLEL DOUBLE AMERICAN CONCRETE INSTITUTE HIGH POINT PRECAST; PIECE DEPARTMENT ADDITIONAL HORIZONTALLY SLOTTED HOLES PERPENDICULAR DETAIL **ADJACENT** HEIGHT PLYWOOD INDEX DOUGLAS FIR/LARCH ARCHITECTURAL EXPOSED STRUCTURAL STEEL INSIDE DIAMETER PLOR PL. PLATE DIA OR Ø DIAMETER AMERICAN INSTITUTE OF STEEL CONSTRUCTION INSIDE FACE PROPERTY LINE I-JOIST PONDS PER LINEAL FOOT DIAPH DIAPHRAGM ALUMINUM INCH PLCS **PLACES** DIMENSION PLYWOOD DOWN AMERICAN NATIONAL STANDARDS INSTITUTE INFORMATION PROP PROPERTY ENGINEERED WOOD ASSOCIATION (FORMERLY THE INSPECTION PRESSURE TREATED AMERICAN PLYWOOD ASSOCIATION) DRAWING INTERIOR PLATE WASHER DOWEL APPROX PARTIAL JOINT PENETRATION WELD APPROXIMATE EACH ARCHITECTURAL; ARCHITECT PREFABRICATED **EACH FACE** AMERICAN WOOD PRESERVERS ASSOCIATION POUNDS PER SQUARE FOOT EXPANSION JOINT AMERICAN WELDING SOCIETY KING STUD POUNDS PER SQUARE INCH ELEVATION KING POST PARALLEL STRAND LUMBER AMERICAN INSTITUTE OF TIMBER CONSTRUCTION ELECTRICAL KIPS PER SQUARE INCH AMERICAN SOCIETY FOR TESTING MATERIALS PAVEMENT ELEVATOR POUND(S) POUND; NUMBER **EMBED EMBEDMENT** BUILDING LINEAL FOOT REFERENCE EDGE NAIL LINEAL; LINEAR REINFORCE; REINFORCING **BLOCK** ENGINEER **BLOCKING** LONG LEG HORIZONTAL REQD REQUIRED EQUAL OR EQUIVALENT LONG LEG VERTICAL ROOF BEAM EQUIP **EQUIPMENT** ROOF RAFTER **BOUNDARY NAIL** EACH SIDE ROUND; DIAMETER LONG SLOTTED HOLES BOT OR B BOTTOM **EACH WAY** SCHED SCHEDULE BRACE LAMINATED STRAND LUMBER EXIST or (E) EXISTING SECT SECTION LIGHTWEIGHT EXTERIOR BETWEEN SEPARATION LEVEL OR LAMINATED VENEER LUMBER FOUNDATION CANTILEVER SHEET MASONRY FINISH CAM OR C CAMBER SHEATHING MATERIAL FLOOR JOIST CENTER TO CENTER SIMILAR MAXIMUM **FLANGE** CENTER OF GRAVITY SLAB ON GRADE FLOOR MACHINE BOLT CAST-IN-PLACE FIELD NAIL SHEAR NAIL MECHANICAL CONSTRUCTION JOINT; CONTROL JOINT FOC FACE OF CONCRETE SPCG SPACING MANUFACTURER FOM CENTER LINE FACE OF MASONARY SPECS **SPECIFICATIONS** MINIMUM; MINUTE FOS FACE OF STUD CLEARANCE; CLEAR SQUARE MISC MISCELLANEOUS FOW FACE OF WALL CONCRETE MASONRY UNIT STAINLESS STEEL FRAMING COLUMN SHORT SLOTTED HOLES NORTH FOOT; FEET COMPRESSION STANDARD NO or # NUMBER FLOOR TIE ABOVE CONCRETE STGR STAGGER NOT TO SCALE FOOTING CONN CONNECTION; CONNECT STIFF STIFFENERS ON CENTER GAUGE GALVANIZED CONT CONTINUE; CONTINUOUS STEEL OUTSIDE FACE GRADE BEAM CONTR CONTRACTOR STRUCTURAL OPPOSITE HAND GLUED LAMINATED BEAM COMPLETE JOINT PENETRATION WELD SHEAR WALL SW OPENING

OPPOSITE

ORIGINAL

GRADE

GROUND

GRND

ADDL

ARCH

**ASTM** 

CLR

CMU

COL

COMP

CONC

CTR

CENTER

COUNTERSINK; COUNTERSUNK

PROJECT MANAGER
M. DOREMUS DRAWN BY CHECKED BY C. PRESSLER M. DOREMUS AUGUST 25, 2025

HALL

OLETA

NO. REVISION

∴ PLAN CHECK

RESPONSE 1

1806-03-PS24

- A. ROUGH CARPENTRY: WOOD PRODUCT DATA AND MANUFACTURER'S CERTIFICATES BEFORE SUBMITTING EACH SUBMITTAL, (INCLUDES SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR
- SUBMITTALS), THE CONTRACTOR SHALL HAVE: A. REVIEWED AND COORDINATED EACH SUBMITTAL WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. THIS INCLUDES THE CONTRACTOR REVIEWING AND VERIFYING THAT THE SUBMITTAL IS COORDINATED AMONG ALL CONSTRUCTION TRADES:
- B. DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE AND DESIGN CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS and Similar Information
- C. DETERMINED AND VERIFIED ALL INFORMATION RELATIVE TO THE CONTRACTOR'S RESPONSIBILITIES FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS.
- D. REVIEWED AND VERIFIED THAT THE ARCHITECT'S OR ENGINEER'S COMMENTS FROM PREVIOUS SUBMITTAL ROUNDS HAVE BEEN ADDRESSED.
- EACH SUBMITTAL SHALL BEAR A STAMP OR SPECIFIC WRITTEN CERTIFICATION THAT THE CONTRACTOR HAS SATISFIED THEIR OBLIGATIONS UNDER THE CONTRACT DOCUMENTS WITH RESPECT TO THE CONTRACTOR'S REVIEW AND APPROVAL OF THAT SUBMITTAL.
- 4. THE CONTRACTOR'S OBLIGATION TO PERFORM AND COMPLETE THE WORK IN ACCORDANCE WITH THE
- CONTRACT DOCUMENTS SHALL BE ABSOLUTE: a. REVIEW AND APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT AND/OR ENGINEER DOES NOT CONSTITUTE APPROVAL OF A CHANGE REQUEST, SUBSTITUTION OR MODIFICATION TO THE CONTRACT DRAWINGS.
  - b. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF CHANGE REQUESTS, SUBSTITUTIONS OR MODIFICATIONS TO THE CONTRACT DRAWINGS IN WRITING BEFORE AND SEPARATE FROM THE SUBMITTAL PRIOR TO SUBMISSION.
- FABRICATION FOR ITEMS IN THESE DOCUMENTS SHALL NOT COMMENCE UNTIL THE SUBMITTAL HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR THE ENGINEER OF RECORD TO THOROUGHLY REVIEW SUBMITTAL PACKAGES (10 WORKING DAYS, MINIMUM).

#### SHOP FABRICATION

- SHOP FABRICATION REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH CODE SECTION 1704.2.5. EXCEPTION: SHOP SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS DONE ON THE PREMISES OF FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK IN ACCORDANCE WITH CODE SECTION 1704.2.5.1. THE FOLLOWING ACCREDITATIONS MEET THE REQUIREMENTS OF THIS EXCEPTION: B. WOOD BUILDINGS
- a. STRUCTURAL GLUED LAMINATED TIMBER

#### STRUCTURAL GLUED LAMINATED TIMBER

1. STRUCTURAL GLUED LAMINATED TIMBER SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:

#### STRUCTURAL GLUED LAMINATED TIMBER PROPERTIES $^{ m c}$

USE	COMBINATION SYBMOL	SPECIES OUTER/CORE	RATING <sup>B</sup>	APPEARANCE	REFERENCE <sup>A</sup>
SIMPLE SPAN	24F-V4	DF/DF	AITC OR APA-EWS	SEE NOTE D	2022 CBC 2303.1.3 (AITC/ANSI 190.1-07
CANTILEVER OR MULTI - SPAN/CONTINUOUS	24F-V8	DF/DF	AITC OR APA-EWS	SEE NOTE D	OR ANSI 190.1-12 AND ASTM D3737)

#### TABLE NOTES:

- A. GLUED LAMINATED MEMBERS SHALL BE MANUFACTURED AS REQUIRED IN ASTM D 3737 AND EITHER OF THE FOLLOWING STANDARDS: a. ANSI 117-15 (CODE REFERENCED)
  - b. ANSI 190.1-22 (CURRENT STANDARD)
- B. STRUCTURAL GLUED LAMINATED TIMBERS SHALL BE IDENTIFIED WITH A STAMP BEARING THE AITC QUALITY MARK OR AWA-EPS TRADEMARK. PLACE STAMPS ON SURFACES THAT WILL NOT BE EXPOSED TO VIEW IN THE COMPLETED STRUCTURE. SUBMIT CERTIFICATES OF CONFORMANCE INDICATING THAT THE GLULAM MEMBERS CONFORM TO THE REQUIREMENTS OF ANSI
- REFER TO GENERAL WOOD NOTES FOR PRESERVATIVE TREATMENT.
- D. STRUCTURAL GLUED LAMINATED MEMBERS SHALL BE OF THE FOLLOWING APPEARANCE GRADES: a. Industrial: Typical exposure for members not exposed to view in the completed
- b. ARCHITECTURAL: EXPOSURE FOR MEMBERS EXPOSED TO VIEW IN THE COMPLETED WORK. c. Premium: Exposure for specific exposed members as indicated on the drawings.
- ADHESIVES USED IN THE GLULAM MANUFACTURING PROCESS SHALL CONFORM TO ANSI 405-18 (PREVIOUSLY AITC 405), STANDARD FOR ADHESIVES FOR USE IN STRUCTURAL GLUED LAMINATED TIMBER. ADHESIVES SHALL BE A WET-USE ADHESIVE MEETING THE REQUIREMENTS OF ASTM D5229.
- 3. MEMBERS SHALL HAVE A SEALER ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AFTER FABRICATION, END SEAL EACH END OF THE MEMBER IMMEDIATELY AFTER CUTTING.
- 4. PROVIDE CAMBER AS INDICATED ON THE DRAWINGS.
- 5. TRANSPORTATION, STORAGE, AND HANDLING:
- A. REFER TO AITC 111-05, RECOMMENDED PRACTICE FOR PROTECTION OF STRUCTURAL GLUED LAMINATED TIMBER DURING TRANSIT, STORAGE AND ERECTION.
- a. LOAD WRAP OR BUNDLE WRAP INDUSTRIAL APPEARANCE GRADE MEMBERS. ARCHITECTURAL OR PREMIUM GRADE MEMBERS SHALL BE WRAPPED INDIVIDUALLY AND REMAIN UNTIL PROTECTION IS NO LONGER REQUIRED FROM WEATHER, SUNLIGHT, SOILING, AND/OR OTHER TRADES. SLIT UNDERSIDE OF WRAPPINGS TO PREVENT ACCUMULATION OF MOISTURE.
- - a. STORE GLULAM MEMBERS ON A FLAT SURFACE AT LEAST 6" ABOVE THE GROUND, PLACE SUPPORTS CLOSE ENOUGH TOGETHER TO PREVENT NOTICEABLE DEFLECTIONS.

#### WOOD STRUCTURAL PANELS (SHEATHING)

WOOD STRUCTURAL PANELS SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE

	WOOD STRUCTURAL PANEL PROPERTIES							
USE	PLY	BOND CLASSIFICATION <sup>C</sup>	SHEATHING GRADE	PERFORMANCE RATING	SPAN RATING	RATING <sup>B</sup>	REFERENCE	
ROOF	5	EXPOSURE 1	refer to tyl	APA	2022 CBC 2303.1.5			
FLOOR	5	EXPOSURE 1		APA	(DOC PS 1-1 OR PS 2-18)			
WALL D	5	EXPOSURE 1	REFER TO TY	APA				
TAI	RI E NIC	)TEC+						

A. WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN ACCORDANCE WITH THE FOLLOWING VOLUNTARY STANDARDS BY THE ENGINEERED WOOD ASSOCIATION (APA):

STRUCTURAL-USE PANELS, PS 2-10

- a. VOLUNTARY PRODUCT STANDARD, STRUCTURAL PLYWOOD, PS 1-09 b. VOLUNTARY PRODUCT STANDARD, PERFORMANCE STANDARD FOR WOOD-BASED
- B. WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY THE APA TRADEMARK INDICATING CONFORMANCE TO THE APPLICABLE VOLUNTARY STANDARD
- C. WHERE PANELS ARE EXPOSED TO REPEATED WETTING AND REDRYING, LONG-TERM EXPOSURE TO WEATHER, OR CONDTIONS OF SIMILAR SEVERITY, "EXTERIOR" APA RATED PLYWOOD SHEATHING SHALL BE USED. C-D "EXPOSURE 1" APA RATED PLYWOOD SHEATHING (CDX) SHALL NOT BE USED FOR
- CONDITIONS INVOLVING LONG-TERM EXPOSURE TO WEATHER. a. Exception: wood structural panel roof sheathing exposed to the outdoors on the UNDERSIDE IS PERMITTED TO BE "EXPOSURE 1" TYPE.
- b. WOOD STRUCTURAL PANELS TO BE USED AS SIDING SHALL COMPLY WITH ANSI/APA PRP-210. D. ORIENTED STRAND BOARD (OSB) WITH EQUIVALENT CLASSIFICATION AND RATINGS MAY BE USED IN LIEU OF PLYWOOD FOR WOOD STRUCTURAL PANEL WALL SHEATHING.
- 2. TRANSPORTATION, STORAGE, AND HANDLING:
- A. TRANSPORTATION a. IN TRANSPORTING PANELS ON OPEN TRUCK BEDS, COVER THE BUNDLES WITH A TARP.
- B. STORAGE a. ALWAYS STORE THE PANELS UNDER COVER WHENEVER POSSIBLE
- b. WHEN STORING PANELS OUTSIDE STACK THEM ON A LEVEL SURFACE ON TOP OF STRINGERS OR OTHER BLOCKING, THREE STRINGERS MINIMUM.
- c. NEVER LEAVE PANELS IN CONTACT WITH THE GROUND d. COVER THE STACK WITH A PLASTIC TARP, ENSURING THAT THE BUNDLE IS WELL VENTILATED TO
- PREVENT MILDEW. e. IF MOISTURE ABSORPTION IS EXPECTED, CUT THE STEEL BAND TO PREVENT DAMAGE
- f. KEEP SANDED OR OTHER APPEARANCE GRADE PANELS AWAY FROM HIGH TRAFFIC AREAS
- a. ALWAYS PROTECT ENDS AND EDGES, ESPECIALLY TONGUE AND GROOVE PRODUCTS, FROM PHYSICAL DAMAGE. b. ACCLIMATIZE THE PANELS FOR 24 HOURS MINIMUM BEFORE INSTALLATION BY STANDING THE
- PANELS ON EDGE WITH A GAP BETWEEN EACH TO ALLOW FOR AIR CIRCULATION OR PER MANUFACTURER'S RECOMMENDATIONS.

#### 3. PLYWOOD ORIENTATION

- A. ROOF AND FLOOR SHEATHING SHALL BE LAID WITH THE GRAIN OF THE OUTER PILES PERPENDICULAR TO THE FRAMING MEMBERS, SHALL BE CONTINUOUS OVER 2 JOIST BAYS MINIMUM AND END JOINTS SHALL BE JOINED OVER FRAMING AND STAGGERED. LEAVE A 1/2" GAP BETWEEN PANELS TO ALLOW FOR PANEL EXPANSION UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUF. REFER TO SPECIFIC DETAILS IN THE DRAWINGS FOR FURTHER PARAMETERS.
- B. PLYWOOD OR OSB WALL SHEATHING MAY BE APPLIED VERTICALLY OR HORIZONTALLY. ALL END JOINTS BE JOINED OVER FRAMING AND STAGGERED.

- A. ROOF: ALL ROOF SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS. WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
- B. ALL FLOOR SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS. WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
- C. WALLS: ALL SHEAR WALLS SHALL BE FULLY BLOCKED AT PLYWOOD EDGES.

- A. USE SHEATHING NAILS SAME GAUGE AS COMMON WIRE NAILS WITH LENGTHS AT LEAST EQUAL TO SHEATHING THICKNESS PLUS REQUIRED PENETRATION PER AWS SDPWS TABLE 4.2A OR 4.3A (AS REQUIRED).
- B. EQUIVALENT PNEUMATIC DRIVE NAILS MAY BE USED IF FASTENER MANUFACTURER HAS RECEIVED ICC OR IAPMO APPROVAL FOR THE INTENDED USE. FASTENERS TO BE SUBSTITUTED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE OF COMMON NAIL SPECIFIED.
- C. 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. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD OR OSB SHEATHING. IF NAIL HEADS PENETRATE THE OUTER PLY MORE T HAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
- D. TYPICAL NAILING SHALL BE 10d AT 6" O.C. AT ALL SUPPORTED EDGES AND OVER SHEAR WALLS, AND 10D AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, UNLESS OTHERWISE NOTED, SEE PLANS AND REFER TO

#### EXISTING UNDERGROUND UTILITIES

- THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
- AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT. A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133. B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

## DEMOLITION

- ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS, WHICH ARE TO REMAIN IN THE FINISHED STRUCTURE.
- 2. ALL ELEMENTS OF THE STRUCTURE, WHICH ARE TO REMAIN, AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE.
- B. CONTRACTOR IS REPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL EXISTING ELEMENTS THAT ARE NECESSARY FOR THE INSTALLATION OF ALL NEW WORK.
- WHERE EXISTING PARTITION WALLS ARE TO BE DEMOLISHED, CONTRACTOR SHALL VERIFY WALLS ARE NON-BEARING PRIOR TO DEMOLITION. IF WALLS ARE FOUND TO BE BEARING, CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY

#### SAWN LUMBER

. FRAMING LUMBER SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:

	SAWN LUMBER	PROPER	ΓIES		
USE	SIZE SPECIES		GRADE	REFERENCE	
	2x4	D.F.	STANDARD OR BETTER PRESSURE TREATED	2000 000	
MUDSILLS	2x6 AND LARGER	D.F.	NO. 2 OR BETTER PRESSURE TREATED	2022 CBC 2303.1.9	
	2x	REDWOOD	FOUNDATION GRADE		
	HORIZONTAL FRA	AMING LUMBE	R		
ROOF JOISTS AND RAFTERS	2x	D.F.	NO. 2		
FLOOR JOISTS	2x	D.F.	NO. 2		
HEADERS AND BEAMS	4x	D.F.	NO. 2	WCLIB & WWPA	
ANIV OTHER HORIZONITAL	4x4 AND SMALLER	D.F.	NO. 2		
ANY OTHER HORIZONTAL	6x6 AND LARGER	D.F.	NO. 1		
	<u>VERTICAL</u> FRAI	MING LUMBER			
TOP PLATES	2x	D.F.	NO. 2		
STUDS	2x4 & 3x4	D.F.	STUD	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
310D3	2x6 & 2x8	D.F.	NO. 2	WCLIB & WWPA	
POSTS	4x4 & 4x6 POSTS	D.F.	NO. 2	]''''	
1 0313	6x6 & LARGER POSTS	D.F.	NO. 1		
	<u>ALL OTHER</u> FRA	MING LUMBER	?		
ALL OTHER FRAMING LUMBER, UNO	ALL SIZES	D.F.	STANDARD & BETTER	WCLIB & WWPA	

- FLOOR JOISTS SHALL BE GRADE STAMPED "S-DRY" WHICH INDICATES A MOISTURE CONTENT NOT EXCEEDING
- 3. ALL SOLE PLATES AND TOP PLATES SHALL BE GRADE STAMPED "KD" WHICH INDICATES KILN DRIED WITH A MOISTURE CONTENT NOT EXCEEDING 15 PERCENT AT BUILDINGS WITH 4 OR MORE STORIES.
- 4. STUD WALLS SHOWN ON PLANS ARE NONBEARING PARTITIONS WALLS, BEARING WALLS OR SHEAR WALLS BELOW THE FRAMING LEVEL, UNLESS NOTED OTHERWISE. STUDS SHALL BE SIZE AND SPACING AS NOTED IN THE DRAWINGS, SEE PLANS AND ARCHITECTURAL DRAWINGS. UNLESS OTHERWISE NOTED.
- MINIMUM FRAMING NAILING SHALL CONFORM TO CBC TABLE 2304.10.2. ALL NAILS SHALL BE COMMON WIRE NAILS, PREDRILL NAIL HOLES TO 70% OF NAIL SHANK DIAMETER WHERE NAILING TENDS TO SPILT WOOD.
- 6. UNLESS OTHERWISE NOTED, ALL WOOD SILL PLATES UNDER BEARING, EXTERIOR, OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE BOLTED TO THE CONCRETE OR MASONRY WITH 5/8" Ø X 12" BOLTS W/ 0.229" X 3" X 3" PLATE WASHER (GALV) AT 4'-O"' O.C. BEGINNING AT 9" O.C. MAXIMUM FROM EACH END OF THE PLATES. THE BOLTS SHALL EXTEND A MINIMUM OF 7" INTO THE CONCRETE OR MASONRY. (POWDER DRIVEN PINS AT 1/3 OF THE BOLT SPACING OR 24" O.C. MAXIMUM MAY BE SUBSTITUTED FOR THE ANCHOR BOLTS AT INTERIOR NON-SHEAR WALLS ONLY).

## PRESERVATIVE TREATMENT:

- A. WOOD MEMBERS SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH AITC 109-07, STANDARD FOR PRESERVATIVE TREATMENT, BASED ON THE SERVICE CONDITION PER THE USE CATEGORIES (UC#) SPECIFIED IN AWPA U1-20.
- a. UC1 INTERIOR CONSTRUCTION, ABOVE GROUND, DRY NO PRESERVATIVE TREATMENT REQUIRED. b. UC2 - INTERIOR CONSTRUCTION, ABOVE GROUND, WET - PRESERVATIVE TREATMENT REQUIRED IF THE HUMIDITY OR MOISTURE CONDENSATION IS 20% OR GREATER.
- c. UC3 EXTERIOR CONSTRUCTION ABOVE GROUND PRESERVATIVE TREATMENT REQUIRED.
- B. FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES OR INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M4-15. THE FOLLOWING FILED TREATMENTS SHALL BE USED: a. BORED HOLES: HOLES FOR CONNECTORS OR BOLTS MAY BE TREATED BY PUMPING COAL TAR
- ROOFING CEMENT MEETING ASTM D5643 INTO HOLES USING A GREASE GUN OR SIMILAR DEVICE. b. EXTERIOR: COPPER NAPHTHENATE. c. INTERIOR: INORGANIC BORON PRESERVATIVES LIMITED TO USE IN APPLICATIONS NOT IN CONTACT

WITH GROUND AND CONTINUOUSLY PROTECTED FROM LIQUID WATER.

- C. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED LUMBER WITH AWPA TREATMENT C2 USING EITHER ALKALINE QUAT (ACQ TYPE B AND D), COPPER AZOLE (CBA-A, CA-B), OR SODIUM BORATES (SBX). ANCHOR BOLTS, FASTENERS, AND METAL FRAMING CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED TO A RATING OF G-185 PER ASTM A653.
- 8. PROVIDE 2 STUDS UNDER ALL 4 X 10 AND LARGER BEAMS OR HEADERS AT SPANS 6 FEET OR LONGER, UNLESS OTHERWISE NOTED, WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATION/PODIUM LEVEL.
- PROVIDE THE FOLLOWING BLOCKING AS A MINIMUM, UNLESS SHOWN OTHERWISE: 2x FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT.
- 2x FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER AND BELOW PARTITION WALLS. 10. DOUBLE JOISTS UNDER PARTITIONS RUNNING PARALLEL TO JOISTS, UNLESS SUPPORTED BY A WALL BELOW OR
- SHOWN OTHERWISE. NAIL DOUBLED JOISTS WITH 16d AT 12" O.C., STAGGERED. 1. BRIDGING SHALL BE 2 X SOLID BLOCKS, INSTALLED AS FOLLOWS: ROOF JOISTS MORE THAN 10" DEPTH, 8'-O" O.C. MAXIMUM, NOT MORE THAN 8'-0' FROM SUPPORT.

FLOOR JOISTS MORE THAN 10" DEPTH, 8'-O" O.C. MAXIMUM, NOT MORE THAN 8'-0' FROM SUPPORT.

- 12. JOIST HANGERS AND OTHER METAL FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, STOCKTON, CALIFORNIA. ACCESSORIES OF OTHER MANUFACTURES WITH EQUIVALENT LOAD CARRYING CHARACTERISTICS MAY BE USED WITH APPROVAL
- 13. FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS.
- 14. THE TOP OF NON-BEARING WALLS SHALL NOT BE IN CONTACT WITH JOISTS/TRUSSES/RAFTERS ABOVE. REFER TO THE REFERENCED DETAILS FOR REQUIRED GAP, 1/2" MINIMUM, UNLESS NOTED OTHERWISE IN DETAIL.

## HARDWARE AND CONNECTORS

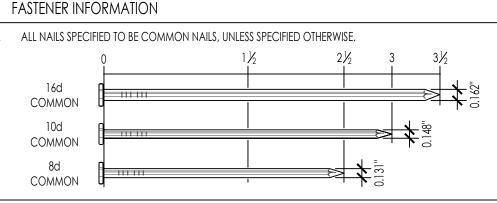
USE ALL SPECIFIED FASTENERS AS SPECIFIED ON PLANS. IF NOT INDICATED ON PLANS PROVIDE FASTENERS PER MFR'S APPROVED ICC-ESR REPORT OR PRODUCT LITERATURE

## DO NOT OVER TIGHTEN NUTS ON TIE-DOWN ANCHOR RODS OR BOLTS. TIGHTEN ANCHOR ROD NUTS

- ONE-THIRD TO ONE HALF TURN BEYOND FINGER TIGHT INSTALL ALL HOLDOWNS TIGHT TO END STUDS/POST, DO NOT USE FILLER BLOCKS. FOR MISALIGNED ANCHOR BOLTS, EXTEND THE ANCHOR ROD AT A 1:6 (HORIZ/VERT) USING A COUPLER WITH EQUIVALENT ANCHOR ROD
- AND INSTALL THE HOLDOWN HIGHER ON END STUD / POST FOR HOLDOWNS THAT BOLT TO END POSTS. INSTALL THE HEAD OF THE BOLT TO THE BRACKET SIDE, AND ON THE SIDE OPPOSITE THE BRACKET, INSTALL A WASHER BETWEEN THE NUT AND THE STUD / POSTS

# OTHERWISE ALTER CONNECTOR STRAPS

TIE DOWN AND COLLECTOR STRAPS SHALL BE INSTALLED STRAIGHT AND TRUE, DO NOT FOLD, BEND, KINK OR INSTALL TIE DOWN STRAPS DIRECT TO POST IN LIEU OF OVER SHEATHING, STRAPS MAY BE INSTALLED ON THE UNSHEATHED SIDE OF THE END STUDS / POSTS



#### DESIGN INFORMATION

DEAD LOADS:		
	DEAD LOADS	
LOCATIONS		UNIFORM (PSF)
ROOF:	BUILT UP ROOF OVER SAWN LUMBER W/ ACOUSTICAL TILE CEILING	17
FLOOR:	CARPET OVER GYPCRETE OVER TJI JOISTS	24
EXTERIOR BEARING WALLS:	10" CONCRETE WALL	106
EXTERIOR BEARING WALLS:	PLASTER/STUCCO EXTERIOR WALL	21
INTERIOR NON BEARING WALLS:	NON-BEARING PARTITION WALL	9

. FLOOR LIVE LOADS: (2022 CBC SECTION 1603.1.1)

	OCCUPANCY OR USE	(PSF)	(LBS)	REFERENCE			
	OFFICES	50		2022 CBC TABLE 1607.1			
3.	ROOF LIVE LOADS (2022 CBC SECTION 1603.1.2)						
	ROOF LIVE LOADS						

FLOOR LIVE LOADS

OCCUPANCY OR USE

	(1.31)	(LDS)	
ROOF ORDINARY FLAT, PITCHED AND CURVED ROOFS (THAT ARE NOT OCCUPIABLE)	20	_	2022 CBC TABLE 1607.1
ROOF SNOW LOADS (2022 CBC SECTION 1603.1.3):			
SNOW DESIGN D	ATA		

VALUE

Pg = 0 PSF

REFERENCE

ASCE 7-16 7.2

5. WIND DESIGN DATA (2022 CBC SECTION 1603.1.4)

GROUND SNOW LOAD

PARAMETER

WIND DESIGN DATA						
PARAMETER	VALUE	REFERENCE				
ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	V <sub>ULT</sub> = 92 MPH	2022 CBC FIG. 1609.3				
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V <sub>ASD</sub> = 72 MPH	2022 CBC 1609.3.1				
EXPOSURE CATEGORY	С	2022 CBC 1609.4.3				
INTERNAL PRESSURE COEFFICIENT:	GCpi = ± 0.18	ASCE 7-16 TABLE 26.13-				

COMPONENTS & CLADDING WIND PRESSURES (PSF)

		•	·		
LOCATION		COMPONENT TRIBUTARY AREA (SQ FT)			
	10	100	500		
ZONE 1'	-19.4	-19.4	-16.0		
ZONE 1	-33.8	-26.6	-21.2		
ZONE 2	-44.5	-35.6	-28.4		
ZONE 3	-60.7	-41.9	-28.4		
ALL ZONES	16.0	16.0	16.0		
ZONE 1'	-33.8	-32.0	-21.2		
ZONE 1	-33.8	-32.0	-21.2		
ZONE 2	-44.5	-32.0	-23.0		
ZONE 3	-60.7	-39.2	-23.0		
ZONE 4	-23.0	-19.9	-17.6		
ZONE 5	-28.4	-22.1	-17.6		
POSITIVE	21.2	17.6	16.0		
	ZONE 1' ZONE 2 ZONE 3 ALL ZONES ZONE 1' ZONE 1 ZONE 2 ZONE 2 ZONE 3 ZONE 4 ZONE 5	TONE 1' -19.4  ZONE 1 -33.8  ZONE 2 -44.5  ZONE 3 -60.7  ALL ZONES 16.0  ZONE 1' -33.8  ZONE 1 -33.8  ZONE 1 -33.8  ZONE 2 -44.5  ZONE 2 -44.5  ZONE 3 -60.7  ZONE 4 -23.0  ZONE 5 -28.4	TONE 1' -19.4 -19.4  ZONE 1 -33.8 -26.6  ZONE 2 -44.5 -35.6  ZONE 3 -60.7 -41.9  ALL ZONES 16.0 16.0  ZONE 1' -33.8 -32.0  ZONE 1 -33.8 -32.0  ZONE 1 -33.8 -32.0  ZONE 2 -44.5 -32.0  ZONE 2 -44.5 -32.0  ZONE 3 -60.7 -39.2  ZONE 4 -23.0 -19.9  ZONE 5 -28.4 -22.1		

#### 6. EARTHQUAKE DESIGN DATA (2022 CBC SECTION 1603.1.5):

SITE AND OCCUPANCY PARAMETERS													
PARAMETER VALUE REFER													
RISK CATEGORY	II	2022 CBC TABLE 1604.5											
SEISMIC IMPORTANCE FACTOR	I = 1.0	ASCE 7-16 TABLE 1.5-2											
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss = 2.322	2022 CBC 1613.2.1											
MAFFED SPECIFAL RESPONSE ACCELERATIONS.	S <sub>1</sub> = 0.818	2022 CBC 1013.2.1											
SITE CLASS	D (DEFAULT)	2022 CBC 1613.2.2											
SPECTRAL RESPONSE COEFFICIENTS:	S DS = 1.858	2022 CBC 1613.2.4											
SPECIRAL RESPONSE COEFFICIENTS.	S D1 = 0.927	2022 CBC 1013.2.4											

7. GEOTECHNICAL INFORMATION (2022 CBC SECTION 1603.1.6): REFER TO FOUNDATION GENERAL NOTES

# FOUNDATION

- GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING: A. DESIGN LATERAL SOIL LOADS ARE IN ACCORDANCE WITH 2022 CBC TABLE 1610.1 B. ALLOWABLE FOUNDATION BEARING AND LATERAL PRESSURES ARE IN ACCORDANCE WITH 2022 CBC TABLE 1806.2
- C. VALUES LISTED SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER 2. SPREAD OR CONTINUOUS FOOTINGS:

		ALLOWABLE LATERAL RESISTANCE B									
ELEMENT	ALLOWABLE BEARING CAPACITY (PSF) <sup>A</sup>	PASSIVE RESISTANCE (PSF/FT BELOW GRADE) <sup>E</sup>	COHESION (PSF)								
CONT FOOTING	1,500	100	120								

- A. THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.
- B. THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE

PROVIDED, COMPACTED TO A MIN OF 90 PERCENT MODIFIED PROCTOR IN ACCORDANCE WITH

- AND PASSIVE RESISTANCE. C. THE UPPER 0 FOOT OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN
- CALCULATING PASSIVE RESISTANCE. D. COMPACTED FILL SHOULD BE PREPARED AS FOLLOWS: A MIN OF 12" OF COMPACTED FILL SHALL BE
- ASTM D 1557 (2022 CBC 1804.6) E. MAY BE DOUBLED FOR ISOLATED POLES PER 2022 CBC 1806.3.4
- WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- 5. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.

6. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR GEOTECHNICAL ENGINEER PRIOR

- TO PLACING CONCRETE AND REINFORCING. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH, CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- 8. EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH, WITH LEVEL BOTTOMS.
- 9. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER REPRESENTATIVE PER SECTION 1705.6 OF THE CODE.
- 10. ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.
- 11. PIPES WITHIN THE ZONE OF INFLUENCE OF BUILDING OR SITE ELEMENT FOUNDATIONS SHALL BE ENCASED IN LEAN CONCRETE AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER OF RECORD.

## EXISTING CONDITIONS

- ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.
- WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

#### GENERAL

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
- A. 2022 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2022 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".

C. CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.

- B. ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA).
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
- A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
- B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
- C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC
- D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
- E. FLOOR AND ROOF FINISHES
- G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
- H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS

F. MISCELLANEOUS DRAINAGE AND WATERPROOFING

- 6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
- A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC.,
- EXCEPT AS SHOWN OR NOTED.
- B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.

D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR

- MOTOR MOUNTS. SEE CIVIL DRAWINGS FOR THE FOLLOWING:
- A. HEIGHT AND/OR ELEVATION OF: a. FINISHED SURFACE

d. FINISHED GRADE

- b. TOP OF WALL c. TOP OF GRADE
- e. SLOPE B. SITE CONCRETE WALKWAYS, CURBS & PAVING
- 8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES. NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS OR CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION
- BACKFILL SHALL NOT BE PLACED BEHIND EXTERIOR AND INTERIOR RETAINING WALLS UNTIL THE CONCRETE / CMU HAS ACHIEVED FULL DESIGN STRENGTH. FOR BRACED WALLS SUPPORTED BY STRUCTURAL DIAPHRAGMS. BACKFILL SHALL NOT BE PLACED BEHIND THE WALL UNTIL THE DIAPHRAGM HAS BEEN INSTALLED , AND FOR CONCRETE DIAPHRAGMS, HAS ACHIEVED FULL DESIGN STRENGTH.
- SHALL MAKE PROVISIONS IN THE LAYOUT OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, I. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, unless specially detailed on the structural drawings. Notify the structural engineer when

DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL

0. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR

DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. . ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.

13. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED

EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH

EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE

SHORING IS NOT THE RESPONSIBILITY OF THE SEOR. CONTRACTOR TO SUBMIT ANY SHORING DESIGN AND

- STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED 14. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT
- SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH. 5. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING.
- 6. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT. A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.

B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

7. EDGE OF SLAB DIMENSIONS TO BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION.

THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR THE ENGINEER OF RECORD TO THOROUGHLY REVIEW SUBMITTAL

# PACKAGES (10 WORKING DAYS, MINIMUM) AND REQUESTS FOR INFORMATION (7 WORKING DAYS MINIMUM).

DIMENSIONS

THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE

DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).

WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE, DRAWINGS SHALL NOT BE SCALED.

4. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.

3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSION NOT NOTED ON STRUCTURAL DRAWINGS.

5. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.

ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

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CONSULTANT

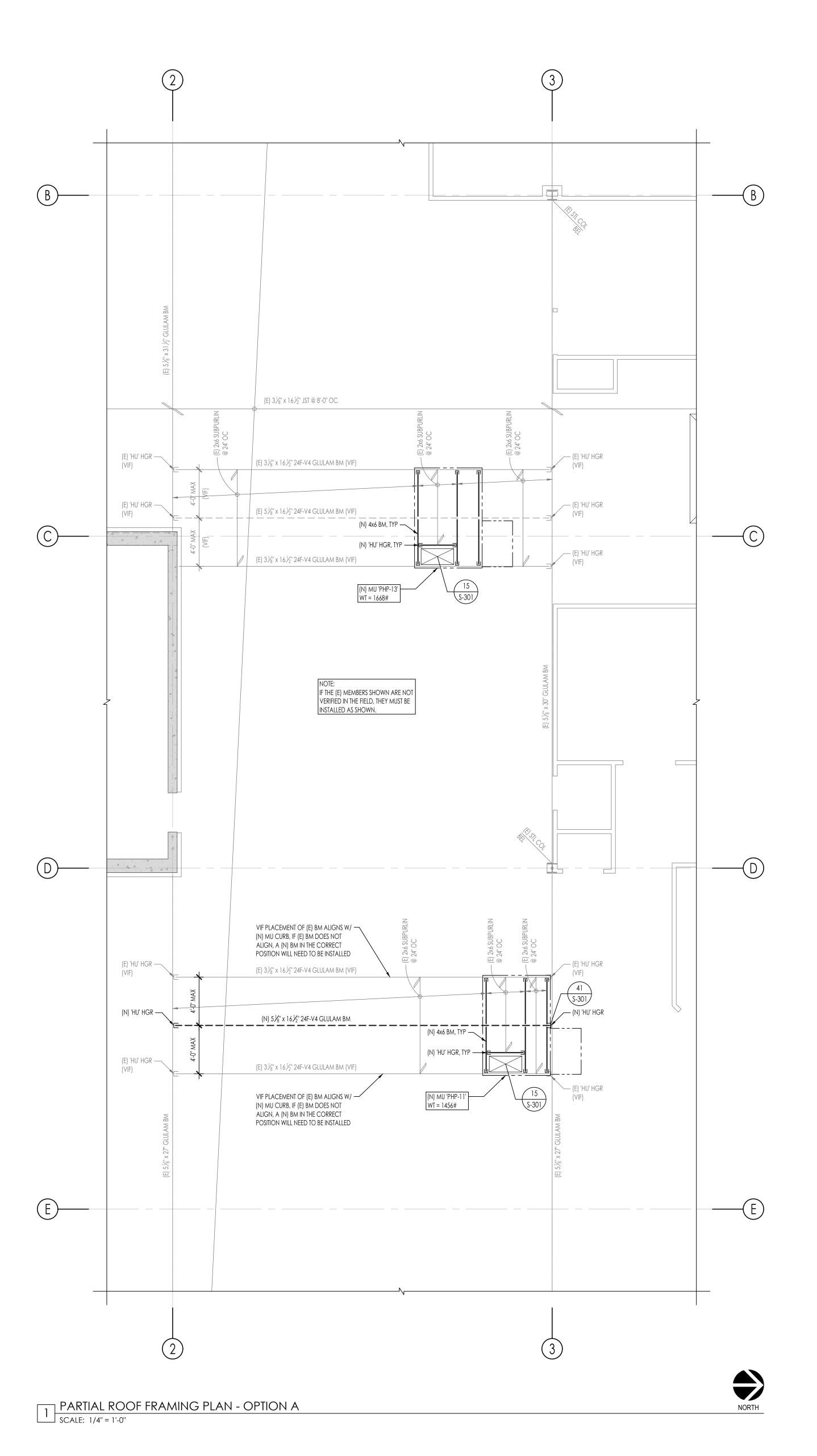
**AGENCY** 

NO. | REVISION PLAN CHECK RESPONSE 1

PROJECT MANAGER M. DOREMUS CHECKED BY DRAWN BY C. PRESSLER M. DOREMUS AUGUST 25, 2025

1806-03-PS24

PROJECT NUMBER



ROOF FRAMING NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING, ALL DIMENSIONS TO BE VERIFIED PRIOR TO CONSTRUCTION:

- A. GRID DIMENSIONS AND HORIZONTAL CONTROL B. ALL DIMENSIONS, ELEVATIONS, FINISH SURFACE, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC
- C. LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS D. ALL NON STRUCTURAL WALLS
- 2. REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102
TESTING AND INSPECTION	S-102
ROOF FRAMING DETAILS	S-301

- 3. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS.
- 4. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, DUCTS AND OTHER ROOF PENETRATIONS. FOR ROOF PENETRATIONS NOT SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 15/S-301 FOR TYPICAL OPENINGS, UNO.
- 5. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
- 6. ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (BN), STGR.
- 7. 'MU' INDICATES MECHANICAL UNIT. MAXIMUM ALLOWABLE WEIGHT IS SHOWN, INCLUDING CURB & COMBINATION ECONOMIZER & POWER EXHAUST. SEE MECHANICAL & ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & WEIGHT OF EQUIPMENT. ATTACH MECH UNITS TO STRUCTURE PER DETAIL 31/S-301. SEE DETAIL 15/S-301 FOR OPENINGS IN ROOF FRAMING.
- 8. EXISTING FRAMING (INCLUDING, BUT NOT LIMITED TO, GLULAM GRADE STAMP, DIMENSIONS OF FRAMING AND LOCATION OF FRAMING) SHALL BE CONFIRMED PRIOR TO STARTING WORK WITH

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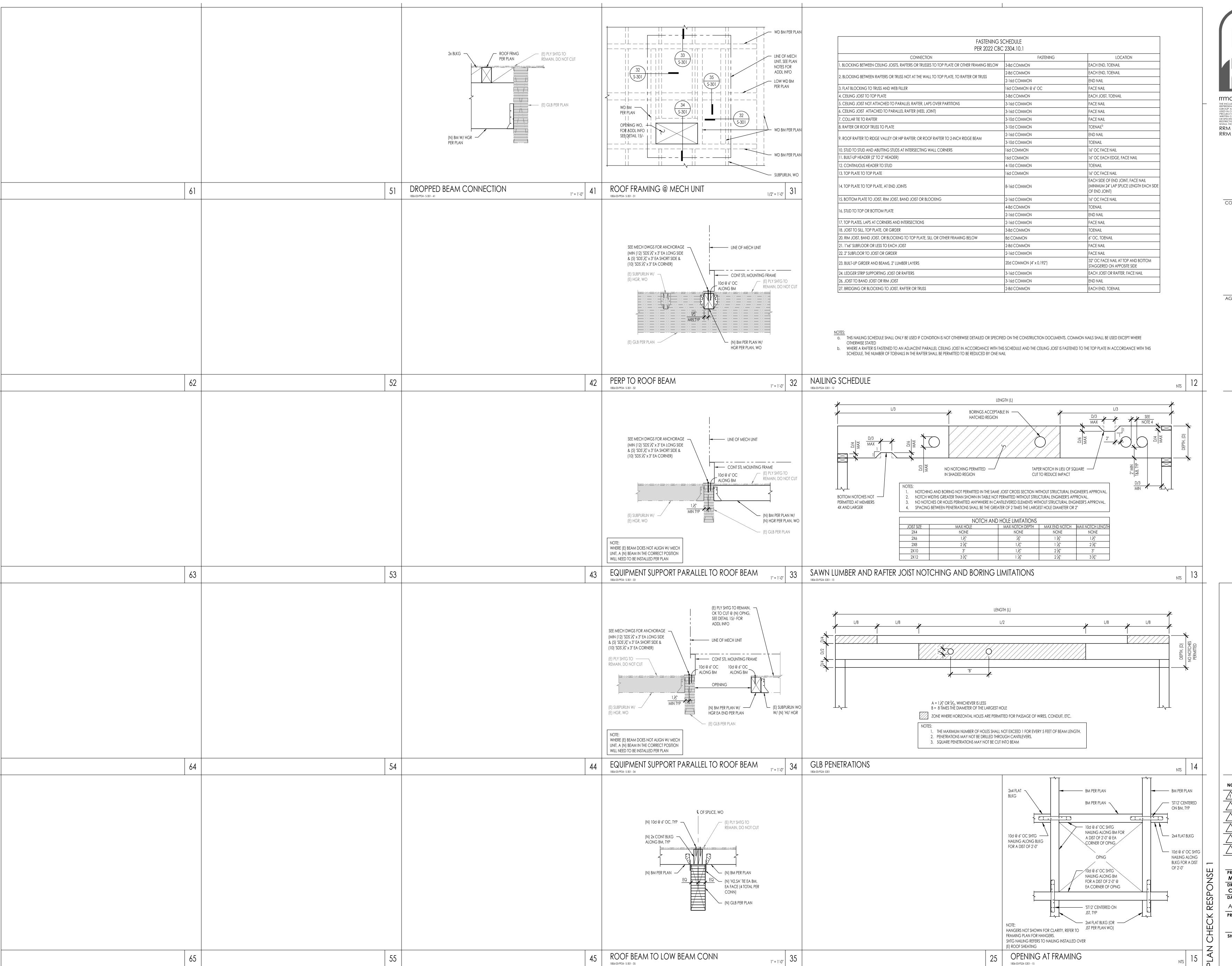
CONSULTANT

AGENCY

NO. REVISION A PLAN CHECK RESPONSE 1

PROJECT MANAGER
M. DOREMUS DRAWN BY
C. PRESSLER
M. DOREMUS

AUGUST 25, 2025 1806-03-PS24



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AGENCY

GOLETA CITY HALL

30 CREMONA DRIVE, GOLETA CA 93117

ROOF FRAMING

DETAILS

REVISION	DATE
PLAN CHECK RESPONSE 1	08/25/25
ECT MANAGER	
	PLAN CHECK

PROJECT MANAGER
M. DOREMUS

DRAWN BY
C. PRESSLER
M. DOREMUS

DATE

AUGUST 25, 2025

PROJECT NUMBER

1806-03-PS24

S-301

<u> </u>	/IECHANIC	CAL LEGEND
SYMBOL	ABBREVIATION	DESCRIPTION
Ø	DIA	DIAMETER
ф		ELECTRICAL PHASE
₩ <b>€</b> € € € € € € € € € € € € € € € € € €		ROUND DUCT TURNING DOWN, ROUND DUCT TURNING UP
		ACCESS CLEARANCE
•	POC OR POD	POINT OF CONNECTION, POINT OF DISCONNECTION
		ITEMS RELATED TO THE MECHANICAL SYSTEMS THAT ARE TO BE REMOVED
CD		CONDENSATE LINE
G		GAS LINE

	MECHANICAL A	BBRE	EVIATIONS
AC	AIR CONDITION, AIR CONDITIONING, AIR CONDITIONED	HP	HORSE POWER
ABV	ABOVE	HVI	HOME VENTILATING INSTITUTE
AFF	ABOVE FINISHED FLOOR	l HZ	HERTZ
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	IDU	INDOOR UNIT
AHJ	AUTHORITY HAVING JURISDICTION	IWC	INCHES OF WATER COLUMN
AHU	AIR HANDLING UNIT	KW	KILOWATT
ALUM	ALUMINUM	LBS	POUNDS
AMCA	AIR MOVEMENT AND CONTROL	LWT	LEAVING WATER TEMPERATURE
AMB	ASSOCIATION AMBIENT	   MBH	1000 BRITISH THERMAL UNITS PER HO
AP	ACCESS PANEL	MCA	MINIMUM CIRCUIT AMPS
ARCH	ARCHITECT, ARCHITECTURAL	MFGR	MANUFACTURE OR MANUFACTURER
ARCH	AIR CONDITIONING, HEATING, AND	INIFGR	MANUFACTURE OR MANUFACTURER
AHRI	REFRIGERATION INSTITUTE AMERICAN SOCIETY OF HEATING,	MIN	MINIMUM
ASHRAE	REFRIGERATION, AND AIR CONDITIONING ENGINEERS	MUA	MAKE-UP AIR
BDD	BACK DRAFT DAMPER	(N)	NEW
BOD	BASIS OF DESIGN	NL	NOT LISTED
BEL	BELOW	NOM	NOMINAL
BHP	BRAKE HORSE POWER	NTS	NOT TO SCALE
BLDG	BUILDING	OA	OUTSIDE AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	OAI	OUTSIDE AIR INTAKE
CA	COMBUSTION AIR	OBD	OPPOSED BLADE DAMPER
CD	CONDENSATE DRAIN	ODU	OUTDOOR UNIT
			OFFICE OF STATEWIDE HEALTH PLAN
CFD	CEILING FIRE DAMPER	OSHPD	AND DEVELOPMENT
CFM	CUBIC FEET PER MINUTE	PD	PRESSURE DROP
CONT	CONTINUATION	PSI	POUNDS PER SQUARE INCH
CSD	CEILING SMOKE DAMPER	RA	RETURN AIR
DB	DRY BULB TEMPERATURE	REF	REFRIGERANT, REFRIGERATION
DN	DOWN	RM	ROOM
DSA	DIVISION OF THE STATE ARCHITECT	RPM	REVOLUTIONS PER MINUTE
DTR	DOWN THROUGH ROOF	SA	SUPPLY AIR
(E)	EXISTING	SEER	SEASONAL ENERGY EFFICIENCY RATI
EA EC	EXHAUST AIR EVAPORATIVE COOLER	SHT	SHEET SHEET METAL AND AIR CONDITIONING
			CONTRACTORS NATIONAL ASSOCIATI
EDB	ENTERING DRY BULB TEMPERATURE	SOV	SHUT OFF VALVE
EER	ENERGY EFFICIENCY RATIO	SP	STATIC PRESSURE
EFF	EFFICIENCY	SS	STAINLESS STEEL
ELEC	ELECTRICAL	SSE	STEADY STATE EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE	SST	SATURATED SUCTION TEMPERATURE
EWB	ENTERING WET BULB	TEMP	TEMPORARY, TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TSP	TOTAL STATIC PRESSURE
FA	FROM ABOVE	TYP	TYPICAL
FC	FLEXIBLE CONNECTION	TXV	THERMAL EXPANSION VALVE
FD	FIRE DAMPER	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPS	UTR	UP TO OR UP THROUGH ROOF
FPM	FEET PER MINUTE	VD	VOLUME DAMPER
FSC	FAN SPEED CONTROLLER	VEX	VEHICLE EXHAUST SYSTEM
FSD	FIRE/SMOKE DAMPER	VRF	VARIABLE REFRIGERANT VOLUME
GA	GAGE, GAUGE	WB	WET BULB TEMPERATURE
GALV	GALVANIZED	WC	WATER COLUMN
GPM	GALLONS PER MINUTE	WG WG	WATER GAUGE
	GYPSUM	WT	WEIGHT EXPRESSED IN POUNDS
1200	O LE SUIVI		WEIGHT EVEKESSED IN LOONDS
GYP HD	HEAD		

## CAL GREEN CODE NONRESIDENTIAL MANDATORY **MEASURES**

5.410.4.5 OPERATION AND MAINTENANCE (O&M) MANUAL. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. 0&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

5.410.4.5.1 INSPECTIONS AND REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.

5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. 5.504.4.1 ADHESIVES, SEALANTS AND CAULKS. ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT

SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS: 1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS AS SPECIFIED IN SUBSECTION 2, BELOW.

2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

TABLE 5.504.4.1 ADHESIVE VOC LIMIT LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER SPECIALTY APPLICATIONS CURRENT VOC LIMIT PVC WELDING CPVC WELDING ABS WELDING SPECIAL PURPOSE CONTACT ADHESIVE

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

250

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, HTTP://WWW.ARB.CA.GOV/DRDB/SC/CURHTML/R1168.PDF.

5.504.5.3 FILTERS. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.

EXCEPTIONS: 1. EXISTING MECHANICAL EQUIPMENT. SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE 2022 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. 5.508.1.1 CHLOROFLUOROCARBONS (CFCS). INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION

EQUIPMENT THAT DO NOT CONTAIN CFCS. 5.508.1.2 HALONS. INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

SECTION 702.1 INSTALLER TRAINING

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT

LIMITED TO THE FOLLOWING: 1. STATE CERTIFIED APPRENTICESHIP PROGRAMS.

2. PUBLIC UTILITY TRAINING PROGRAMS.

3. TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATE-WIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS.

4. PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS. 5. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY

#### MECHANICAL TITLE 24 NOTES HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE LATEST REQUIREMENTS OF THE CA ENERGY EFFICIENCY STANDARDS.

HVAC SYSTEMS SHALL MEET THE LATEST CONTROL REQUIREMENTS OF THE CA ENERGY EFFICIENCY

ALL WORK SHALL BE IN ACCORDANCE WITH CITY AND COUNTY CODES, CALIFORNIA ENERGY CONSERVATION STANDARDS, TITLE - 24, AND ALL OTHER APPLICABLE CODES.

## MECHANICAL GENERAL NOTES

COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC): PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS

2022 CALIFORNIA BUILDING CODE (CBC): PART 2, TITLE 24 CCR 2022 CALIFORNIA ELECTRICAL CODE (CEC): PART 3, TITLE 24 CCR

2022 CALIFORNIA MECHANICAL CODE (CMC): PART 4, TITLE 24 CCR 2022 CALIFORNIA PLUMBING CODE (CPC): PART 5, TITLE 24 CCR 2022 CALIFORNIA ENERGY CODE (CENC): PART 6, TITLE 24 CCR

2022 CALIFORNIA FIRE CODE (CFC): PART 9, TITLE 24 CCR 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN): PART 11, TITLE 24 CCR

REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED. THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE, VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE ARCHITECT. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.

THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL ITEMS RELATED TO MECHANICAL SYSTEMS WITH THE WORK OF OTHER TRADES BEFORE PROCEEDING WITH PROCURING OR FABRICATION OF EQUIPMENT, DUCTWORK, PIPING ETC. ITEMS TO BE COORDINATED SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

CONSTRUCTION OF PLATFORMS AND SHAPED RUNNERS OR OTHER MEANS TO MOUNT CURBS LEVEL. ALL PLATFORMS AND CURBS SHALL BE LEVEL UNLESS OTHERWISE NOTED OR DETAILED ON THE

MECHANICAL PLANS. REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO

ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. ACCESS CLEARANCE SHALL BE 30" OR AS REQUIRED BY THE EQUIPMENT MANUFACTURER, WHICH EVER IS GREATER. CONTRACTORS SHALL PROVIDE ACCESS PANELS WHERE REQUIRED. WHERE VERTICAL SPACE ALLOWS, INSTALL DUCTWORK THAT IS IN CLOSE PROXIMITY TO MECHANICAL, ELECTRICAL OR ANY OTHER ITEM THAT REQUIRES ACCESS HIGH IN THE SPACE FOR EASE OF ACCESS.

HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.

THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.

BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.

ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS. INCREASE OUTER DUCT DIMENSION AS REQUIRED TO ACCOUNT FOR THE THICKNESS OF INTERNAL LINING WHERE APPLICABLE.

ALL SQUARE ELBOWS IN SUPPLY DUCTWORK SHALL HAVE TURNING VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE TO SMACNA IN ORDER TO ASSURE A

COMPLETELY BALANCED SYSTEM. CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED AT THE HEIGHTS GIVEN BY SECTION 11B-308.1 OF THE 2022 CBC. NOTIFY THE ARCHITECT IMMEDIATELY IF THE MOUNTING HEIGHTS REQUIRED BY THE 2022 CBC CANNOT BE OBTAINED AT THE LOCATION WHERE THE CONTROL DEVICE IS SHOWN ON THE MECHANICAL FLOOR PLANS.

DUCT SMOKE DETECTORS WHEN NOT PROVIDED PRE-INSTALLED BY THE EQUIPMENT MANUFACTURER SHALL BE INSTALLED IN THE SUPPLY AIR DUCT OF AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM. DETECTORS SHALL BE LOCATED BETWEEN THE SUPPLY AIR DUCT CONNECTION AT THE EQUIPMENT AND THE FIRST BRANCH DUCT OR DIFFUSER. WHERE FIRE-DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING. ALL SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS IN AN APPROVED MANNER, AND INSTALLED IN ACCORDANCE WITH NFPA 72 AND THE CALIFORNIA BUILDING AND FIRE CODES.

ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE THEY ARE SERVING.

MATERIALS EXPOSED WITHIN ANY SPACE BEING USED AS AN AIR PLENUM SHALL BE NON COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 50, WHEN TESTED AS A COMPOSITE PRODUCT IN ACCORDANCE WITH ONE OF THE FOLLOWING TEST METHODS: NEPA 255 METHOD OF TEST OF SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, ASTM E84, SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS, OR UL 723, TEST FOR SURFACE BURNING CHARACTERISTIC OF BUILDING MATERIALS.

ANY MECHANICAL EQUIPMENT THAT PROVIDES POWER TO A ENERGIZED ACCESSORY MUST BE PROVIDED WITH A NAMEPLATE THAT REFLECTS THE ELECTRICAL CHARACTERISTICS OF THE COMPLETE SYSTEM AS INSTALLED WITH THE ENERGIZED ACCESSORY, NO EXCEPTIONS.

EQUIPMENT WITH REFRIGERANT ACCESS PORTS LOCATED OUTDOORS IN AN AREA THAT IS NOT SECURED BY WALLS OR FENCING REQUIRING KEY ACCESS SHALL BE PROTECTED FROM WITH LOCKING-TYPE TAMPER RESISTANT CAPS.

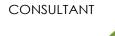
	PROJECT	TEAM LIST	
TITLE	NAME	DESK NUMBER	EMAIL ADDRESS
PRINCIPAL IN CHARGE	BRIAN STARRETT	805.540.5358	BSTARRETT@3CENG.COM
PROJECT MANAGER	DENVER STANGER	805.540.5388	DSTANGER@3CENG.COM
MECHANICAL DESIGNER	DENVER STANGER	805.540.5388	DSTANGER@3CENG.COM

	SHEET INDEX
SHEET NUMBER	SHEET TITLE
M-000	GENERAL
M-001	SCHEDULES & DETAILS
M-121	PARTIAL ROOF PLANS











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NO. REVISION

PROJECT MANAGER DRAWN BY AUGUST 25, 2025 1806-03-PS24

			·		EXIS	STING G	AS HEA	TING EL	ECTR	IC CO	OOLIN	IG PA	CKA	GED L	JNIT	SCH	HED	ULE (I	-OR	REF	EREN	ICE O	NLY)				
				NOM	DUCT		2001 INO	CONDENSATE	ELEC	TRICAL D	АТА	AHRI R	ATINGS		E	EVAPOR	RATOR F	AN DATA				FURNAC	CE SECTIO	N	MERV 13	WEIGHT W/	WEIGHT W/
T	TAG MAKE	MODEL	CAPACITY TONS	DUCT CONFIGURATION	REFRIGERANT	COOLING STAGES	CONNECTION SIZE	POWER V/φ/HZ	MCA	FUSE SIZE	втин	EER [EER2]	DRIVE	CF	LOW	- ESP	WATTS [HP]	ВНР	FAN SPEED	HEATING STAGES	INPUT BTUH	OUTPUT BTUH	THERMAL EFFICIENCY [AFUE]	FILTER QUANTITY AND SIZE	ACCESSORIES LBS	ACCESSORIES & CURB LBS	
Æ	AC 1	CARRIER	48HJD008	7.5	VERTICAL	R-410A	2	3/4"	460/3/60	19.2	25	90,000	11.00	BELT	3,000	NA	1.4	2,615	2.90	NA	2	90,000	72,900	[82]	(4)16x20x2	870	NA
Æ	AC 3	CARRIER	48HJD012	10.0	VERTICAL	R-410A	2	3/4"	460/3/60	24.9	30	120,000	11.00	BELT	4,000	NA	2.0	3,375	4.20	NA	2	120,000	98,400	[82]	(4)20x20x2	1,035	NA

GENERA	L NOTES AP	PLICABLE TO AL	L UNITS:				
A. FQUIPI	MENT IS EXIS	TING AND IS TO F	RE REMOVED AN	D REPLACED, DAT	A GIVEN FOR R	FEERENCE ONL'	Υ.

	PACKAGED HEAT PUMP UNIT SCHEDULE																																
TAC MAKE		NOM			FLECT	RICAL D	ΛΤΛ			Al	IRI PERF	ORMANCE	DRMANCE AIIX		ALIYII IARV FI	AUXILIARY ELECTRIC HEAT   COND	CONDENSATE	COMPENSATE		EVAPORATOR FAN DATA			MERV 13	VENTILATION AIR BALANCE		MEIOUT M	WEIGHT W						
TAG	MAKE	MODEL	NOM CAPACITY TONS	DUCT CONFIGURATION	REFRIGERANT	LLLOI	NIOAL DI	AIA		coo	LING			HEA	ATING		AUXILIANT LI	LECTRICTIER	CONDENSATE CONNECTION SIZE			LVAION	ATOKT	AN DATA			FILTER QUANTITY	REQUIRE CF		WEIGHT W/ ACCESSORIES LBS	WEIGHT W/ ACCESSORIES & CURB LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
			IONS			POWER V/φ/HZ	MCA	FUSE SIZE	втин	SEER [SEER2]	EER [EER2]	IEER	BTUH AT 47°F		COP AT 47°F	HSPF [HSPF2]	KW	втин	SIZE	DRIVE	MIN CFM	MAX CFM	ESP	ВНР	FAN SPEED	CONTROL	AND SIZE	MINIMUM OAI	DCV MAX OAI	LDS	& CURD LDS		
PHP 11	CARRIER	50FEQM08	7.5	VERTICAL	R-454B	460/3/60	42	45	90,000	NA	11.20	15.0	84,000	45,000	3.4	NA	13.8	47,087	3/4"	DIRECT	1,980	3,000	1.0	1.5	1,609	2-STAGE	(4)20x20x2	650	NA	1,020	1,470	1,2,C1,C4	1/M001
PHP 13	CARRIER	50FEQM12	10.0	VERTICAL	R-454B	460/3/60	52	60	118,000	NA	11.00	15.0	112,000	64,000	3.4	NA	13.8	47,087	3/4"	DIRECT	2,640	4,000	0.90	2.34	1,882	2-STAGE	(4)20x20x2	550	NA	1,235	1,680	1,3,C1,C4	1/M001

GENERAL NOTES APPLICABLE TO ALL UNITS:

A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR. B. PACKAGED HEAT PUMP UNITS THAT PROVIDE POWER FROM THE UNIT TO ANY ENERGIZED ACCESSORY SHALL BE PROVIDED WITH A FACTORY NAMEPLATE THAT REFLECTS THE ELECTRICAL CHARACTERISTICS OF THE COMPLETE SYSTEM. NO EXCEPTIONS.

C. PROVIDE WITH MICROMETL CRBV-SRT34HA-11 STRUCTURALLY CALCULATED SPRING ISOLATION CURB. 11" BASE HEIGHT. D. PROVIDE WITH CSFM LISTED, FACTORY INSTALLED SMOKE DETECTOR LOCATED IN THE SUPPLY AIR COMPARTMENT. DETECTOR SHALL BE WIRED TO SHUTDOWN THE UNIT IMMEDIATELY UPON SMOKE DETECTION.

E. PROVIDE WITH SINGLE POINT POWER KIT.

C1. PROVIDE WITH HONEYWELL MODEL TC500A NETWORKABLE PROGRAMMABLE THERMOSTAT. INSTALL THERMOSTAT AT THE LOCATION OF THE (E)THERMOSTAT AT THE LOCATION OF THE (E)THERMOSTAT BUT AT 48" AFF AS REQUIRED TO MEET ACCESSIBILITY REQUIRMENTS. EXTEND CONTROL WIRING AS NEEDED. UTILIZE THE ELECTRICAL BOX THE EXISTING THERMOSTAT IS MOUNTED ON AS A JUNCTION BOX TO SPLICE THE WIRING. PROVIDE COVER PLATE OVER EXISTING BOX. COLOR OF COVER PLATE TO MATCH ADJACENT EXISTING COVER PLATES.

	COMBINATION ECONOMIZER AND POWER EXHAUST SCHEDULE														
ELECTRICAL DATA FAN DATA															
TAG	MATCHING UNIT TAG	MAKE	MODEL	POWER V/φ/HZ FLA MCA MOCP ASSOCIA UNIT					CFM	ESP	TYPE	MODULATING	WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
PE 11	PHP 11	MICROMETL	PEBD-SRT34CB-D2DH	460/3/60	4.6	5.8	10	NO	3,000	0.5	BACKWARD INCLINED	YES	195	C1,C2,C3	NA
PE 13	PHP 13	MICROMETL	PEBD-SRT34CB-D2DH	460/3/60	5.2	6.5	10	NO	4,000	0.5	BACKWARD INCLINED	YES	225	C1,C2,C3	NA

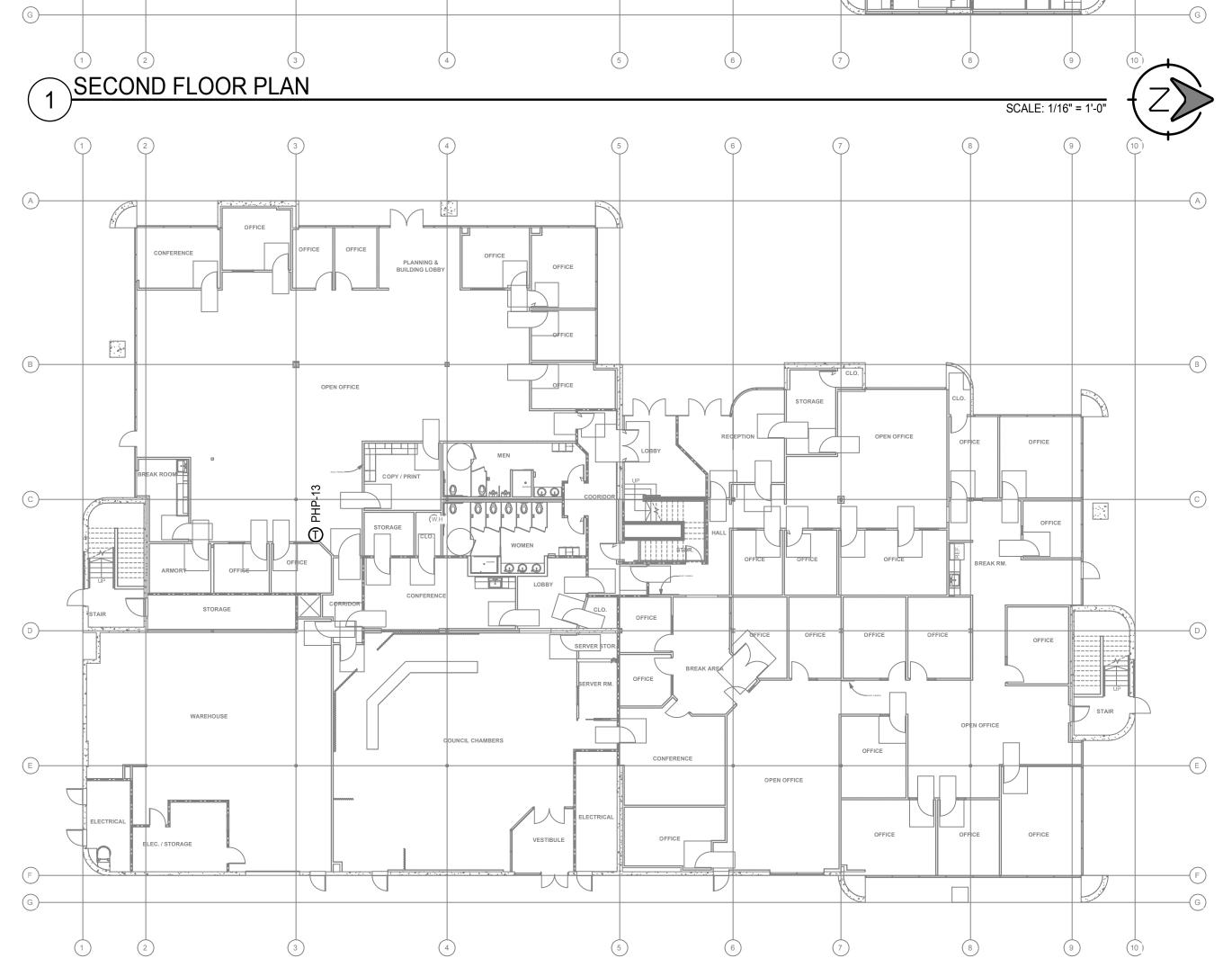
GENERAL NOTES APPLICABLE TO ALL UNITS: A. UNIT IS PROVIDED WITH A INTEGRAL 20 AMP DISCONNECT.

B. ECONOMIZER SHALL MEET TITLE 24 MANDATORY REQUIREMENTS FOR DAMPER LEAKAGE, FAULT DETECTION AND DIAGNOSTIC CONTROLS.

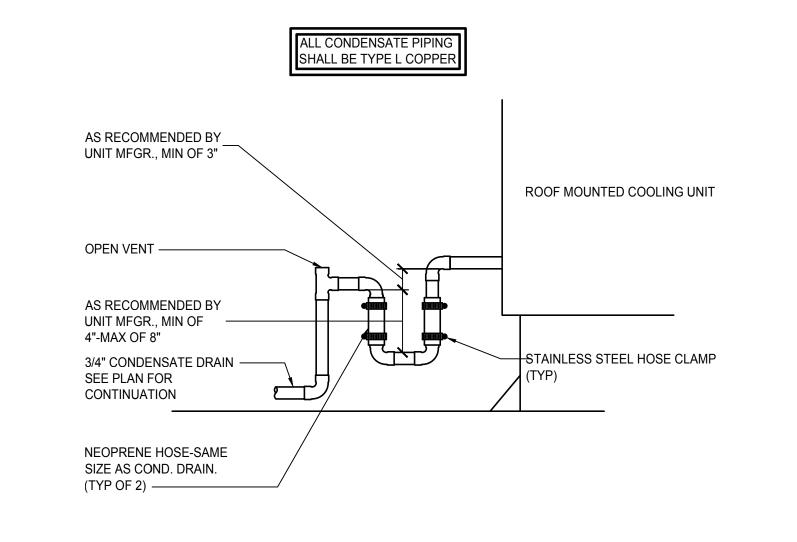
CONTROL NOTES: C1. ECONOMIZER SHALL BE DRY BULB CONTROLLED.

C2. ECONOMIZER SHALL BE PROVIDED WITH HONEYWELL JADE CONTROLLER AND BELIMO NON COMMUNICATING ACTUATORS. C3. POWER EXHAUST SHALL MODULATE TO MAINTAIN 0.05" WC IN THE SPACE SERVED BY THE MATCHING UNIT.

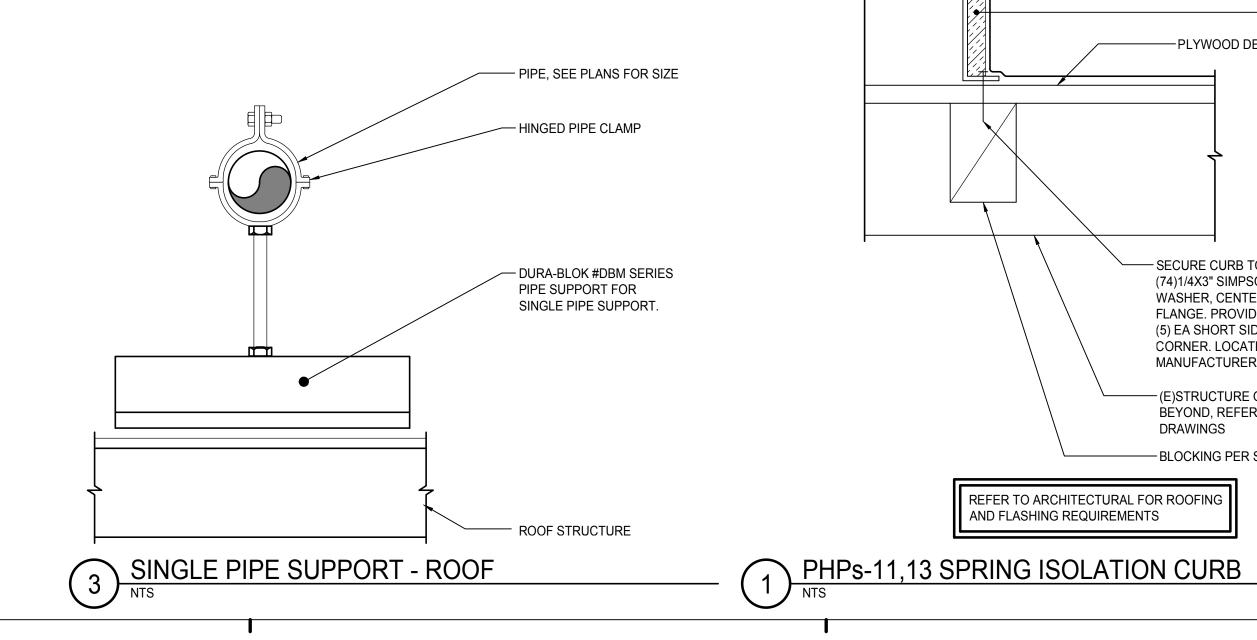


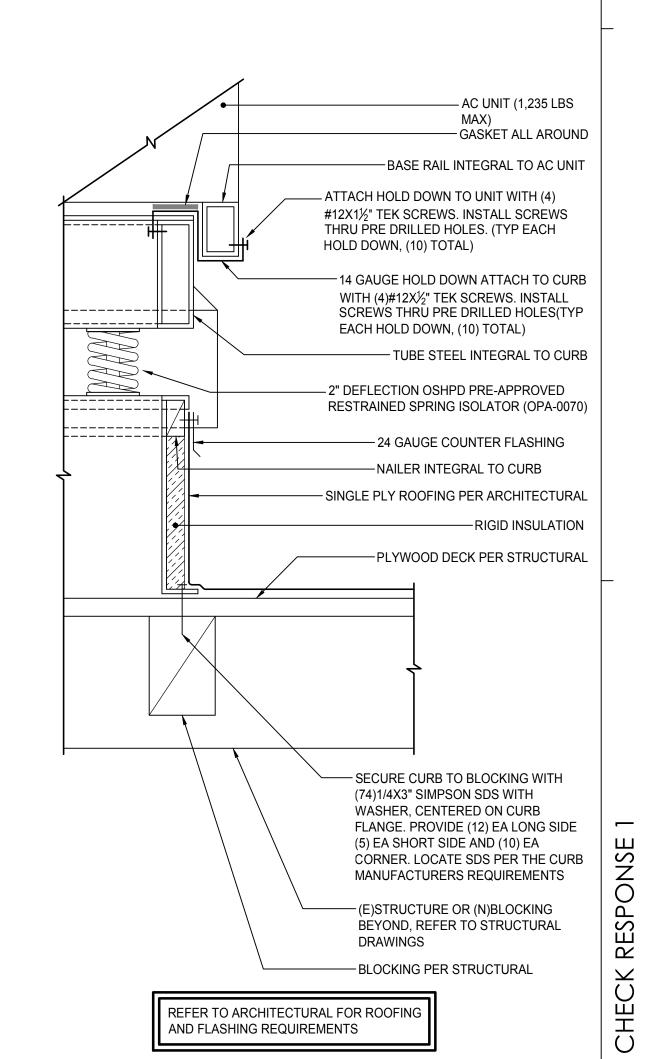


FIRST FLOOR PLAN



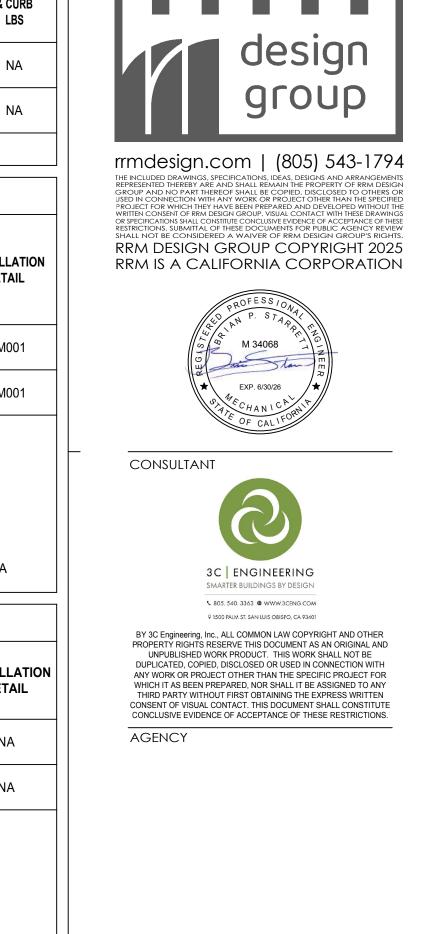






LOCATE HOLD DOWN CLIPS PER THE CURB

MANUFACTURERS REQUIREMENTS





PROJECT MANAGER

AUGUST 25, 2025

1806-03-PS24

PROJECT NUMBER

DRAWN BY

CHECKED BY

AFTER COMPLETION OF THE INSTALLATION OF THE NEW PACKAGED HEAT PUMPS AND COMBINATION FOLLOWING THE MANUFACTURERS STARTUP PROCEDURES AND CHECKLIST. PROVIDE COMPLETED START UP CHECKLIST TO THE OWNER.

# START UP AND BALANCING

ECONOMIZER AND MODULATING POWER EXHAUST THE CONTRACTOR SHALL STARTUP THE EQUIPMENT

OVERALL SYSTEM AIRFLOW SHALL BE BALANCED TO ENSURE THE EQUIPMENT IS OPERATING AT THE SPECIFIED SUPPLY, RETURN AND OUTSIDE AIRFLOW VALUES. REFER TO THE PACKAGED HEAT PUMP

SCHEDULE FOR THE SUPPLY AND VENTILATION AIRFLOW RATES.

APPLICABLE TO THIS SHEET ONLY

**DEMOLITION KEY NOTES** 

AC UNIT TO BE REMOVED. DISCONNECT FROM POWER, CONTROL WIRING GAS AND CONDENSATE. REMOVE UNIT AND ROOF CURB. CONTROL GAS PIPING TO BE REMOVED. CAP PIPE AT POD. REMOVE PIPE AND ALL

ASSOCIATED SUPPORTS TO POD. CONDENSATE PIPING TO BE REMOVED. REMOVE PIPE AND ALL ASSOCIATED SUPPORTS TO POD. CONDENSATE PIPING TO REMAIN. SUPPORTS SHALL BE REMOVED AND

# DEMOLITION GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

REPLACED.

ALL EXISTING ITEMS SHOWN HAVE BEEN COLLECTED FROM THE BEST AVAILABLE SOURCES. THE ENGINEER DOES NOT REPRESENT THE ACCURACY OF THESE ITEMS. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND PERFORM ALL WORK WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

## DEMOLITION PLAN STATEMENT

THIS DEMOLITION PLAN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. DISPOSE REMOVED ITEMS PER THE CITY OF GOLETA MUNICIPAL CODE IN CHAPTER 8.10, ARTICLE IV, MANDATORY RECYCLING OF CONSTRUCTION DEBRIS.

ALL EXISTING ITEMS SHOWN ON THE PLANS HAS BEEN COLLECTED FROM THE BEST AVAILABLE RESOURCES. ACCURACY AND LOCATION OF EXISTING ITEMS MAY NOT BE ACCURATE.

## **KEY NOTES**

APPLICABLE TO THIS SHEET ONLY 3/4" CD TO PHP. REFER TO DETAIL 2/M-001 FOR CONNECTION TO UNIT.

THE NEW DROP/RISER.

REFER TO DETAIL 3/M-001 FOR SUPPORT.

) | (E)3/4" CD. PROVIDE NEW SUPPORTS. REFER TO DETAIL 3/M001. PROVIDE NEW DROP/RISER FROM THE PHP TO BELOW THE ROOF DECK. RECONFIGURE DUCTWORK BELOW ROOF AS REQUIRED TO CONNECT TO

CONTRACTOR SHALL VERIFY EXTENT OF THE RECONFIGURATION OF THE DUCTWORK BELOW THE ROOF DECK PRIOR TO BIDDING THE PROJECT. CONTRACTOR SHALL SUBMITT A SKETCH INDICATING HOW THEY INTEND TO RECONFIGURE THE DUCTWORK WITH THEIR BID.

# **HVAC GENERAL NOTES**

APPLICABLE TO THIS SHEET ONLY

ALL EXISTING ITEMS SHOWN ON THE PLANS HAS BEEN COLLECTED FROM THE BEST AVAILABLE RESOURCES. ACCURACY AND LOCATION OF EXISTING ITEMS MAY NOT BE ACCURATE.



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CONSULTANT

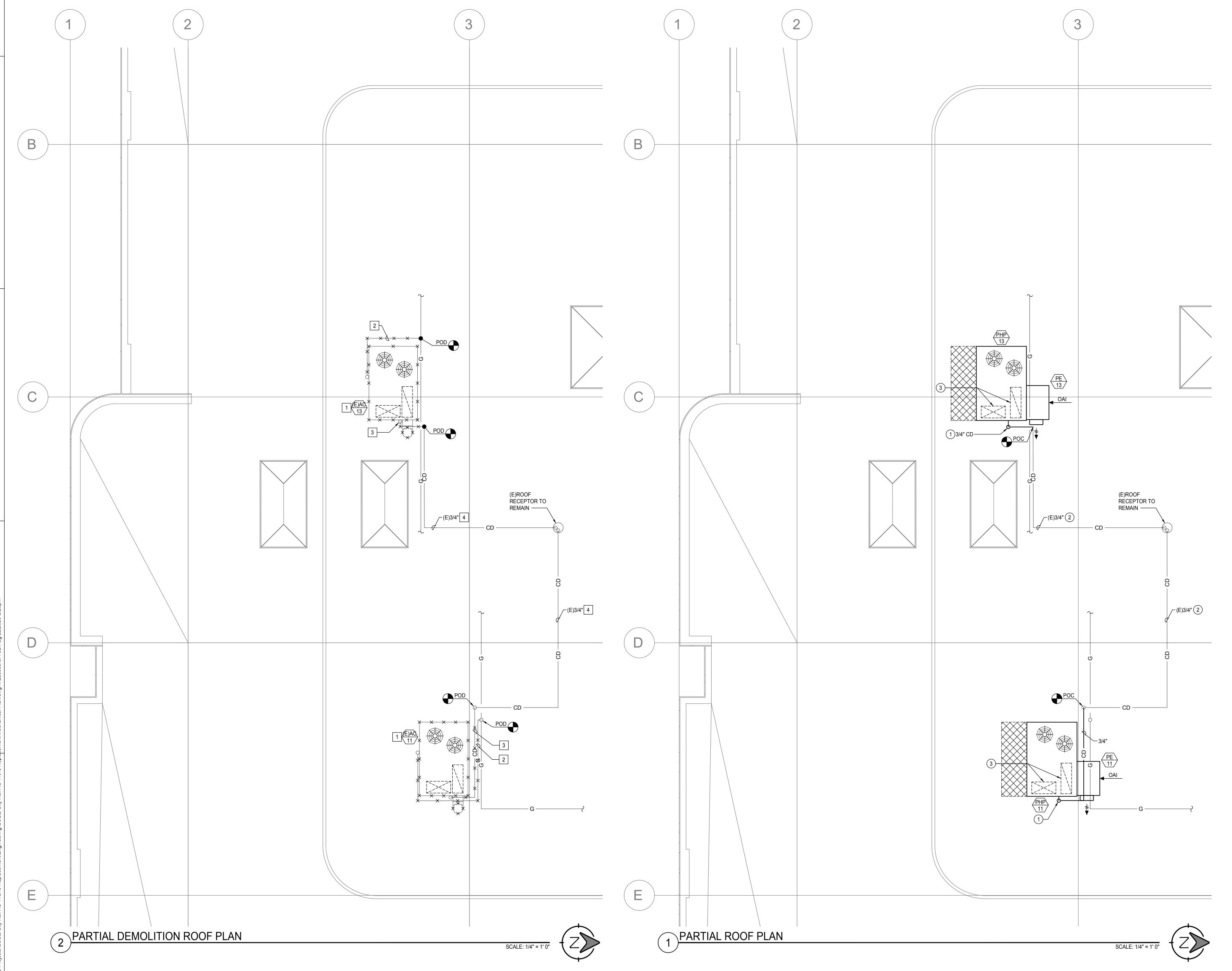


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♥ 1500 PALM ST. SAN LUIS OBISPO, CA 93401

PROJECT MANAGER

AUGUST 25, 2025 1806-03-PS24



Property of the content of the con	Mechanical Systems  CERTIFICATE OF COMPLIANCE  Project Name: Goleta City Hall  Project Address: 130 Cremona Dr	CALIFORNIA ENERGY COMMISSION NRCC-MCH Report Page: (Page 12 of 12 or # B Date Prepared: 5/9/202	CERTIFICATE OF COMPLIANCE	CALIFORN  Report Page:  Date Prepared:	STATE OF CALIFORNIA  Mechanical Syst  Mechanical Syst  CERTIFICATE OF COMPLIA  Project Name: Goleta	ANCE	Report Page: Date Prepared:	CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E (Page 4 of 12)  5/9/2025	TITLE PRINCIPAL IN CHARGE PROJECT MANAGER	PROJECT TEAM LIST  NAME DESK NUMBER  BRIAN STARRETT 805.540.5358  DENVER STANGER 805.540.5388	EMAIL ADDRESS  BSTARRETT@3CENG.COM  DSTANGER@3CENG.COM
March   Marc	I certify that this Certificate of Compliance documentation is accurate and compountation Author Name: Jorge Bravo Company: 3C Engineering, Inc. Address: 1500 Palm St. City/State/Zip: San Luis Obispo CA 93405  RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:  1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the I are nergy features and performance specifications, materials, components, and manufactured de of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance aplans and specifications submitted to the enforcement agency for approval with this building perm 5. I will ensure that a completed signed copy of this Certificate of Compliance is required Responsible Designer Name: Brian Starrett Company: 3C Engineering, Inc. Address: 1500 Palm St. City/State/Zip:	Documentation Author Signature:  Signature Date: 25-05-09  CEA/ HERS Certification Identification (if applicable):  Phone: 805-540-3363  Se building design or system design identified on this Certificate of Compliance (responsible designer) devices for the building design or system design identified on this Certificate of Compliance conform to the requirements are consistent with the information provided on other applicable compliance documents, worksheets, calculations, mit application.  Se with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable and to be included with the documentation the builder provides to the building owner at occupancy.  Responsible Designer Signature:  Date Signed: 2025-05-09  License: M34068  Phone:	FOOTNOTES: System CFM should include both mechanical and natural ventilation for 2 Air filtration requirements apply to the following three system types per 120.1(c)1A: systems providing outside air to occupiable space; supply side of balanced ventilation soccupiable space.    Juniform Mechanical Code may have more stringent ventilation requirements; the mode is See Standards Tables 120.1-A and 120.1-B.   For lecture halls with fixed seating, the expected number of occupants shall be determed in 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting Examples of spaces which require lighting occupancy sensors include offices 250ft2 or sociated open areas in warehouses, library book stack aisles, corridors, stairwells, parking of the section does not apply to this project.    K. TERMINAL BOX CONTROLS   This section does not apply to this project.	e space conditioning systems utilizing ducts to supply air to occupiable space is systems including heat recovery and energy recovery ventilation systems proof proof systems including heat recovery and energy recovery ventilation systems proof proof systems including heat recovery and energy recovery ventilation systems proof proof systems including code.  The proof of the California Building Code.  The proof of th	This section does not a sproviding outside air to  H. FAN SYSTEMS & A This table is used to deprocess loads are exemulation. The section does not a sproviding outside air to  H. FAN SYSTEMS & A This table is used to deprocess loads are exemulated as a sprove of the section does not a sprove of the section does not a sproviding outside air to  H. FAN SYSTEMS & A This table is used to deprocess loads are exemulated as a sprove of the section does not a sprove of the section does not a sproviding outside air to  H. FAN SYSTEMS & A This table is used to deprocess loads are exemulated as a sprove of the section does not a sprove of the section does not a sproviding outside air to  H. FAN SYSTEMS & A This table is used to deprocess loads are exemulated as a sprove of the section does not	Airflow thr. Component  Base Allowance for system serving spaces <=6 floors away  MERV 13-16 Filter upstream of thermal conditioning equipment  Hydronic/DX cooling coil or heat pump coil  Economizer Return/Relief/Transfer Fan Base	Other   Serving   Dwelling   Units	Site Elevation 40 Economizer Fixed Temperatur e  09 10 11  Design  Motor Nameplate Horsepower Method Power (kW)  Janufacturer provided 1.29	SHEET NUMBER  M-000 GE  M-001 SC  M-121 PA	JORGE BRAVO  805.540.3363 EXT 313  SHEET INDEX  SHEET TITLE  ENERAL  CHEDULES & DETAILS  ARTIAL ROOF PLANS	DSTANGER@3CENG.COM  JBRAVO@3CENG.COM
The content of the	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Repo	oort Version: 2022.0.000 Compliance ID: EnergyPro-20016-0525-0483	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  STATE OF CALIFORNIA  Mechanical Systems  CERTIFICATE OF COMPLIANCE  Project Name: Goleta City Hall  L. DISTRIBUTION (DUCTWORK and PIPING)  11 No The scope of the project includes only duct system	Report Version: 2022.0.000 Compliance ID: En Schema Version: rev 20220101 Report Gener  CALIFORN  Report Page: Date Prepared:  Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?  Duct leakage testing per CMC Section 603.10.1 required for these systems?  Improved the system of the system shall not exceed for these systems?	EnergyPro-20016-0525-0483 erated: 2025-05-09 14:01:33  STATE OF CALIFORNIA  Mechanical Syst  CERTIFICATE OF COMPLIA  Project Name: Goleta  System Name  Yes  O1  O2  Fan	ems  ANCE City Hall  AIR ECONOMIZERS  Quantit y 1 Fan System Status New System all Zoning system Status 03 04 05	Report Version: 2022.0.000 Schema Version: rev 20220101  Report Page: Date Prepared:  Serving Dwelling Dwelling Dwelling Dwelling Units (cfm)  06 07 08  Allowance Water Fan	Compliance ID: EnergyPro-20016-0525-0483   Report Generated: 2025-05-09 14:01:33	Mechanical Systems  CERTIFICATE OF COMPLIANCE  This document is used to demonstrate compliance for mechanical systems to path outlined in 140.4, or 141.0(b)2 for alterations.  Project Name: Goleta City Hall  Project Address: 13  A. GENERAL INFORMATION  01 Project Location (city) Goleta 02 Climate Zone 6  03 Occupancy Types Within Project:	Report Page:  30 Cremona Dr # B Date Prepared:  04 Total Conditioned Floor Area  05 Total Unconditioned Floor Area	CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E estrating compliance using the prescriptive  (Page 1 of 12)  5/9/2025  7419  0 2
Part			13 Yes The space conditioning system serves less than 5,0 14 No The combined surface area of the ducts is more the 15 The scope of the project includes extending an exi 16 No The scope of the project includes an existing duct and diagnostic testing in accordance with procedu 17 All Ductwork and plenums with pressure class ration and the serving individual dwelling duct system and plenums with pressure class ration and plenums with pressure cla	than 25% of the total surface area of the entire duct system: xisting duct system, which is constructed, insulated or sealed with asbestos it system that is documented to have been previously sealed as confirmed to dures in the Reference Nonresidential Appendix NA2. tings shall be constructed to Seal Class A ystem g ducts installed  NR/ Common Use: Duct leakage testing shall not exceed 6% per	Supply Fan Base Allowance (kW)  1 FOOTNOTES: Fans ser Low-turndown single-design airflow and use design load served by to 3 Fan system allowance 4 Filter pressure loss can 5 Complex Fan System in fans, or both. 6 Computer room econd document	Base Allowance for system serving spaces <=6 floors away  MERV 13-16 Filter upstream of thermal conditioning equipment  Hydronic/DX cooling coil or heat pump coil  Economizer Return Damper  Economizer Return/Relief/Transfer Fan Base Allowance(kW)  Ving spaces with design background noise goals below No zone VAV fan system must be capable of and configured no more than 30 percent of the design wattage at that of the equipment shall have fixed loads.  Includes fan system base allowance.  In only be counted once per fan system.  Interest must meet requirements of 140.9(a) and will be considered and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will be a system sust meet requirements of 140.9(a) and will s	Gauge (w.g) Compone nt Allowance (watt/cfm) 3  928  556  184  Fan System Allowance (kW) <sup>3</sup> NC35  It to reduce airflow to 50 percent of airflow. No more than 10 percent of the system with other supply fans, exhaust	method Nameplate Horsepower Horsepower Nameplate Horsepower Nameplate Nameplate Nower (kW)  1.95	This table Includes mechanical systems or components that are within the state 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.  O1  Air System(s)  Heating Air System  Cooling Air System  Mechanical Controls  Mechanical Controls  Mechanical Controls (existing to remain, altered or new)  Cooling Air System	02  Wet System Components  Water Economizer	03  Dry System Components  conomizer  tric Resistance Heat  Systems  twork (existing to remain, altered or new)
Matter   M			CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Re	Report Version: 2022.0.000 Compliance ID: En	EnergyPro-20016-0525-0483 CA Building Energy Effici	01 ency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: EnergyPro-20016-0525-0483	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Documentation Software: EnergyPro  Compliance ID: EnergyPro-20016-0525-0483  Report Generated: 2025-05-09 14:01:33
								Report Generated: 2025-05-09 14:01:33			₩
			Mechanical Systems  CERTIFICATE OF COMPLIANCE	3/10/4/10/20/20	NRCC-MCH-E (Page 10 of 12)  Mechanical Syst  CERTIFICATE OF COMPLIA  Project Name: Goleta	ANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems  CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E
Section   Sect			Mechanical Systems  CERTIFICATE OF COMPLIANCE  Project Name: Goleta City Hall  L. DISTRIBUTION (DUCTWORK and PIPING)  11 No The scope of the project includes only duct system 12 Yes Duct system provides conditioned air to an occupi 13 Yes The space conditioning system serves less than 5,6 14 No The combined surface area of the ducts is more that 15 The scope of the project includes extending an exi 16 No The scope of the project includes an existing duct and diagnostic testing in accordance with procedu 17 All Ductwork and plenums with pressure class ration 18 All ductwork is an extension of an existing duct system 19 Ductwork serving individual dwelling unit 20 < 25 ft of new or replacement space conditioning 12 R-6 Duct Insulation R-value  M. COOLING TOWERS	Dwelling Units: Total duct leakage of duct system shall not exceed 129 or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?  Duct leakage testing per CMC Section 603.10.1 required for these systems?  In serving healthcare facilities piable space for a constant volume, single zone, space-conditioning system. 10,000 ft <sup>2</sup> of conditioned floor area. 10,000 ft <sup>2</sup> of the total surface area of the entire duct system: 11,000 straight system, which is constructed, insulated or sealed with asbestos 11 system that is documented to have been previously sealed as confirmed the system that is documented to have been previously sealed as confirmed the system that is documented to Seal Class A system	RNIA ENERGY COMMISSION NRCC-MCH-E (Page 10 of 12) 5/9/2025  Fan Energy Index (FE  No  Yes  I. SYSTEM CONTROLS  This table is used to de 141.0(b)2E 180.2(b)2 fo  01  System Name  AC-11  AC-13  **FOOTNOTES: Gravity g have setback thermosted to de d:t24refnolink/]160.2, application need to be in a spreadsheet.	ANCE  City Hall  Tame or Item Tag  AC-11  AC-13  S  monstrate compliance with mandatory controls in 110.2 or altered space conditioning systems.  O2  O3  O4  Conditioned Floor Area Being Served (ft²)  Single zone  Single zone  C= 25,000 ft²  Setback  Single zone  Single zone  Single zone  Setback  Single zone  Setback  Single zone  Thermostats 110.2(b) & (c)¹, 120 160.3(a)2A or 141.0(b) 180.2(b)2  Setback  Single zone  Setback  Tindoor Alr QUALITY  monstrate compliance with mandatory ventilation required to this table. In lieu of this table, the required documented in this table. In lieu of this table, the required to the control of the control of the control of the control of this table, the required to the control of the control	Report Page: Date Prepared:  FEI Exception Altered Fan System Altered Fan System  Altered Fan System  O5 O6 O7  Shut-Off Zone Demand Re Controls 120.2(e) & 120.2(e) & 110.12 120 120.2(g) & 160.3(a)2F  Auto Timer Switch 25k ft²  Auto Time	CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E (Page 6 of 12)  5/9/2025  FEI     OB	Mechanical Systems  CERTIFICATE OF COMPLIANCE Project Name: Goleta City Hall  C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D.,  01 02 03 04  System Summary 110.1, 110.2, 140.4(k), 170.2(c)4  140.4(e), 170.2(c) 170.2(c)  (See Table F) (See Table G) (See Table H) (See Table I)  Yes AND AND Yes AND Yes  Mandatory Measures Complian  D. EXCEPTIONAL CONDITIONS  This table is auto-filled with uneditable comments because of selections materials.  E. ADDITIONAL REMARKS  This table includes remarks made by the permit applicant to the Authority Inc.  F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)  Space Conditioning System Information  01 02  System Name Quantity System	Report Page: Date Prepared:  is compliant with mechanical requirements. This table is not edite or the table indicated as not compliant for guidance.  O5 O6 O7 Terminal Box AND 120.3, 140.4(l), 170.2(c)4B 160.2, 160.3  (See Table J) (See Table K) (See Table L) AND Yes AND Yes AND AND Yes AND AND Yes AND Yes AND Yes AND AND Yes AND Yes AND Yes AND Yes AND AND Yes A	CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E (Page 2 of 12)  5/9/2025  Table by the user. If this table says "DOES  OB O9  AND Cooling Towers 110.2(e)2 Compliance Results  (See Table M)  AND COMPLIES  COMPLIES  COMPLIES
There are no NRCV forms required for this project.  Q. MANDATORY MEASURES DOCUMENTATION LOCATION This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.  There are no NRCV forms required for this project.  Conditioned Floor Area Condition (°F) Title 20  Conditioned H of Showe Floor Area (in the plan set or construction documentation.  Required Min OA (°F) Title 20  Title 20  NA: Not required per S120.1(d13  AC-11  >=65,000 and <135,000  AC-11  AC-11  >=65,000 and <135,000  AC-11  AC-11  >=65,000 and <135,000  AC-11  AC-11			Mechanical Systems  CERTIFICATE OF COMPILANCE Project Name: Goleta City Hall  L. DISTRIBUTION (DUCTWORK and PIPING)  11 No The scope of the project includes only duct system 12 Yes Duct system provides conditioned air to an occupi 13 Yes The space conditioning system serves less than 5,0 The scope of the project includes extending an exit 15 The scope of the project includes an existing duct and diagnostic testing in accordance with procedu 17 All Ductwork and plenums with pressure class ratio 18 All ductwork is an extension of an existing duct system 19 Ductwork serving individual dwelling unit 20 < 25 ft of new or replacement space conditioning 12	Report Page: Date Prepared:  Dwelling Units: Total duct leakage of duct system shall not exceed 129 or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?  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VENTILATION AND  This table is used to de d:t24refnolink/]160.2, application need to be in a spreadsheet.  01  02  03  Nonresidential and Ho  entation Software: EnergyPro  EnergyPro-20016-0525-0483 erated: 2025-05-09 14:01:33  RINIA ENERGY COMMISSION  Mechanical Syst  Mechanical Syst  CERTIFICATE OF COMPLIA  Project Name: Goleta  No  System CONTROL: This table is used to de d:t24refnolink/]160.2, application need to be in a spreadsheet.  01  02  03  Nonresidential and Ho  STATE OF CALIFORNIA  Mechanical Syst	ANCE City Hall  In ame or Item Tag AC-11 AC-13  Somonstrate compliance with mandatory controls in 110.2 or altered space conditioning systems.  O2 O3 O4 Thermostats Floor Area Zoning Being Served (ft²) Single zone  C= 25,000 ft² Setback Single zone Single zone Single zone Single zone Single zone Thermostats Setback Single zone S	Report Page:  Date Prepared:  FEI Exception  Altered Fan System  Altered Fan System  Altered Fan System  O5	CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E (Page 6 of 12)  5/9/2025  FEI  Tell  OR 09  Response 140.4(f) & 170.2(c)4D  170.2(c)4D  NA: Alteration Project  Alteration NA: Alteration Project  Alteration NA: Alteration Project  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to  Orative gas appliances, wood stoves are not required to	C. COMPLIANCE RESULTS  Table C will indicate if the project data input into the compliance document NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., 01  System Summary, 110.1, 110.2, 120.2, 140.4(s), 170.2(c) 110.2, 170.2(c) 110.2, 170.2(c) 110.2, 170.2(c) 110.2, 170.2(c) 150.2(c) 150	Report Page: Date Prepared:  Is compliant with mechanical requirements. This table is not editor or the table indicated as not compliant for guidance.  O5 O6 O7 Terminal Box Controls 120.1, 160.2 140.4(l), 170.2(c)4B 160.2, 160.3 140.4(l), 170.2(c)4B 160.2, 160.3 160.2, 160.2, 160.3 160.2,	CALIFORNIA ENERGY COMMISSION  NRCC-MCH-E (Page 2 of 12)  5/9/2025  Table by the user. If this table says "DOES  OB O9  AND Cooling Towers 110.2(e)2 Compliance Results  (See Table M)  AND COMPLIES  COMPLIES  COMPLIES

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Schema Version: rev 20220101

SHEET INDEX								
SHEET NUMBER	SHEET NUMBER SHEET TITLE							
M-000	M-000 GENERAL							
M-001	M-001 SCHEDULES & DETAILS							
M-121	PARTIAL ROOF PLANS							
EC-000	ENERGY COMPLIANCE DOCUMENTATION							

Documentation Software: EnergyPro

Compliance ID: EnergyPro-20016-0525-0483 Report Generated: 2025-05-09 14:01:33

Generated Date/Time:

Report Version: 2022.0.000

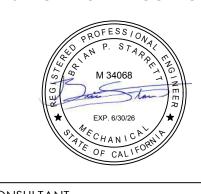
Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance



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NO. REVISION

PROJECT MANAGER DRAWN BY CHECKED BY AUGUST 25, 2025

RESPONSE

CHECK

PROJECT NUMBER 1806-03-PS24 SHEET

## **GENERAL NOTES**

- CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:
- A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2019 CALIFORNIA ELECTRICAL CODE, 2019 CALIFORNIA FIRE CODE, 2019 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE
- B. AMERICANS WITH DISABILITIES ACT (ADA).
- SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
- FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
- 4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
  - +15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)
  - +46" AFF: OUTLET ABOVE COUNTER (MEAUSRED TOP OF OUTLET BOX) +48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)
  - +48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX)
  - THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS PER 2019 CBC SECTION 1616A.1.18:

THAT MEET ALL OF THE CRITERIA LISTED IN 2019 SECTION 1616A.1.18 ITEM 3.

D. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, AND 13.6.5.5, ITEM 6, RESPECTIVELY.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA#, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI

COPIES OF THE MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING HANGING AND BRACING OF THE PIPE, DUCTWORK, AND

BRACE LOADS.

## MECHANICAL SYSTEMS

- 1. MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR WITH LIQUID TIGHT FLEXIBLE TYPE AT FINAL CONNECTION TO UNIT AND BETWEEN ROOF JACK AND DISCONNECT SWITCH WHERE DISCONNECT IS MOUNTED ON UNIT.
- 2. POWER EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR WITH LINE VOLTAGE WIRING
- 3. MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. ALL LOW VOLTAGE CONTROL WIRE
- 4. PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE.

- ASBESTOS: IF DURING THE COURSE OF WORK THE CONTRACTOR OBSERVES THE EXISTENCE OF ASBESTOS, OR ASBESTOS-BEARING MATERIALS, THE CONTRACTOR SHALL IMMEDIATELY TERMINATE FURTHER WORK ON THE PROJECT AND
- EXISTING CONDITIONS: INFORMATION SHOWN FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR
- CONDUCTORS OF ALL SYSTEMS AS REQUIRED TO MAINTAIN AND/OR ESTABLISH PROPER FUNCTION AND SATISFY DESIGN INTENT. REMOVE ABANDONED CONDUCTORS.
- PLAN TO BE RELOCATED SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. MODIFY EXISTING SYSTEM AS REQUIRED FOR FULL FUNCTION (SAME AS EXISTING) IN NEW LOCATION.
- WHERE EXISTING BUILDING CONSTRUCTION, MECHANICAL UNITS AND OTHER EQUIPMENT IS SHOWN TO BE REMOVED,
- 7. CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH ARCHITECT AND OWNER. MINIMUM 72-HOUR NOTICE IS

## **ELECTRICAL ROOF PLAN**

- PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL AC UNITS.
- VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 4. FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING.
- 5. ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH MASTIC.

## FIRE ALARM SYSTEM

A. EXISTING FIRE ALARM IS A SILENT NIGHT. FIRE ALARM WILL BE A DEFERRED SUBMITTAL AFTER BUILDING PERMIT IS ISSUED. APPROVAL AND DEVICES SHOWN ON PLANS ARE FOR REFERENCE ONLY. SUBMIT FULL DESIGN-BUILD SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND PERMIT APPLICATION TO THE COUNTY BUREAU OF FIRE PREVENTION FOR REVIEW AND APPROVAL OF FIRE ALARM SYSTEM. INCLUDE THE PLAN CHECK NUMBER ON YOUR SUBMITTAL AND ALL CORRESPONDENCE. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BEGIN UNTIL THE LOCAL FIRE AUTHORITY HAS APPROVED THE SHOP DRAWINGS

NOTE: INTERPRET IN CONTEXT

#### LIGHT FIXTURES CEILING SURFACEMOUNT ₩ WALL SURFACEMOUNT

PENDANT MOUNT RECESSED DOWNLIGHT RECESSED WALLWASH RECESSED FLUOR. SURFACE FLUOR. ⊢--- FLUOR. STRIP UON ──
 TRACK LIGHT

 □ DIRECTIONAL FLOOD ■ POLE LIGHT POLE LIGHT- DECORATIVE 

BOLLARD EXIT LIGHT- WALL

POWER/COMM. SINGLE RECEPT. DUPLEX RECEPT. GROUND FAULT CIRCUIT INTERRUPT DUPLEX- HALF SWITCHED

SPECIAL CONFIGURATION DUPLEX- FLOOR OUTLET JUNCTION BOX

▼ TELEPHONE OUTLET \* MOUNTED ABOVE COUNTER ☐ SAFETY DISCONNECT

EQUIPMENT ANCHORAGE NOTE ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2019 CBC, SECTIONS 1613A AND 1616A AND ASCE 7-10 SECTIONS 13.3, 13.4 & 13.6.

FURNITURE(EXCEPT STORAGE CABINETS AS NOTED IN 2019 CBC TABLE 13.5-1)

TEMPORARY OR MOVABLE EQUIPMENT WITH EXCEPTIONS NOTED IN 2019 CBC SECTION 1616A.1.18 ITEM 2. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS IN SEISMIC DESIGN CATEGORIES D, E, OR F

EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A

TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.

ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND

- CONNECTIONS MADE BY ELECTRICAL CONTRACTOR.
- SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.

# EXISTING BUILDINGS

- NOTIFY THE OWNER OF THE CONDITION. THE OWNER WILL, AFTER CONSULTATION WITH THE OWNER'S REPRESENTATIVE, DETERMINE A FURTHER COURSE OF ACTION.
- 2. ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- VARIATIONS FROM THAT SHOWN.
- 4 EXISTING CONDUCTORS: INTERCEPT, EXTEND, REROUTE, REPULL CONDUCTORS, SPLICE AND OTHERWISE MODIFY EXISTING
- 5. EXISTING COMMUNICATIONS, DATA AND CATV AND OTHER LOW VOLTAGE TYPE SYSTEM OUTLET LOCATIONS SHOWN ON THE
- DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL INSTALLATION.
- REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY PERSONNEL FUNCTIONING.

- 2. ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.

## LEGEND

# CONDUIT/WIRE \_\_\_\_ NEW --- UNDERGROUND

── (E) POWER HOMERUN → CONDUIT STUB (W/MARKER) ── VERTICAL CONDUIT RUN → CONDUIT SEAL ─LV─ LOW VOLTAGE

EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION) LETTER ADJACENT INDICATES

TIMER SWITCH W/THERMAL OVERLOAD W/PILOT LIGHT KEY OPERATED \$\$ DUAL LEVEL SWITCHING ,a SWITCHLEG DESIGNATION OS OCCUPANCY SENSOR

DOUBLE DUPLEX, HALF SWITCHED

▼ PHONE/DATA COMBO OUTLET

™ TELEVISION OUTLET IDF INTERMEDIATE DISTRIBUTION FRAME MDF MAIN DISTRIBUTION FRAME (AP) ACCESS POINT

MISCELLANEOUS  $\bigcirc$  MOTOR THERMOSTAT \_\_\_\_ CIRCUIT BREAKER

—
√

FUSIBLE SWITCH

GROUND

Ø PHASE

#### HEAT DETECTOR B BELL ₹ END OF LINE RESISTOR

SPST

DPST

3-WAY

4-WAY

DIMMER

FIRE ALARM

AV AUDIBLE/VISUAL

SV SPEAKER/VISUAL

FLOW SWITCH

TAMPER SWITCH

SMOKE DETECTOR

SD<sub>CO</sub> SMOKE/CO DETECTOR

SD<sub>D</sub> DUCT SMOKE DETECTOR

**ABBREVIATIONS** A AMPERE AF AMP FUSE RATING ₩► NEW POWER HOMERUN AFF ABOVE FINISH FLOOR (3 HOTS & NEUT SHOWN) AFG ABOVE FINISH GRADE → ISOLATED GROUND ─E─ EXISTING TO REMAIN

AIC AMPERES INTERRUPT CAPACITY AS AMP SWITCH RATING BFG BELOW FINISH GRADE CB CIRCUIT BREAKER CEC CA. ELECTRICAL CODE CKT CIRCUIT

C CONDUIT C.O. CONDUIT ONLY ---- SURFACEMOUNT RACEWAY (E) EXISTING EC ELECTRICAL CONTRACTOR EF-# EXHAUST FAN (EXN) (E) IN (N) LOCATION

(EXR) (E) TO BE (R) (F) FUTURE FA FIRE ALARM FACP FIRE ALARM CONTROL PANEL G GROUNDING CONDUCTOR GC GENERAL CONTRACTOR GFI GROUND FAULT CKT INTERRUPTER

GND GROUND GRS GALVANIZED RIGID STEEL GWS GANGED WITH SWITCH IG ISOLATED GROUND LTG LIGHTING MC MECHANICAL CONTRACTOR

MCB MAIN CIRCUIT BREAKER MLO MAIN LUGS ONLY MSB MAIN SWITCHBOARD MTTB MAIN TELEPHONE TERMINAL BOARD (N) NEW FIRE ALARM CONTROL PANEL

NIC NOT IN CONTRACT RPS REMOTE POWER SUPPLY NL NIGHT LIGHT HORN- AUDIBLE DEVICE P POLE VISUAL- VISUAL DEVICE PV PHOTOVOLTAIC (R) RELOCATE(D) (TBR) TO BE REMOVED TYP TYPICAL UC UNDERCABINET MANUAL PULL STATION UG UNDERGROUND

> VA VOLT AMPERES W WATT, WIRE WP WEATHERPROOF (NEMA 3R)

V VOLT

UON UNLESS OTHERWISE NOTED

# CONVENTIONS

NUMBERED SHEET NOTES: REFERS TO NOTES ON SAME SHEET AS REFERENCED

UNIT HVAC EQUIPMENT NEW TAG PER

DETAIL REFERENCE: -DETAIL DESIGNATION -SHEET NUMBER REFERENCE (AC-X) — EXISTING UNIT TAG

\ # / MECHANICAL PLANS

SHEET LIST SHEET | ELECTRICAL GENERAL NOTES, LEGEND, AND ABBREVIATION E-011 | ELECTRICAL SINGLE LINE DIAGRAM ELECTRICAL ROOF PLAN E-101 ELECTRICAL FIRST FLOOR PLAN

ELECTRICAL SECOND FLOOR PLAN



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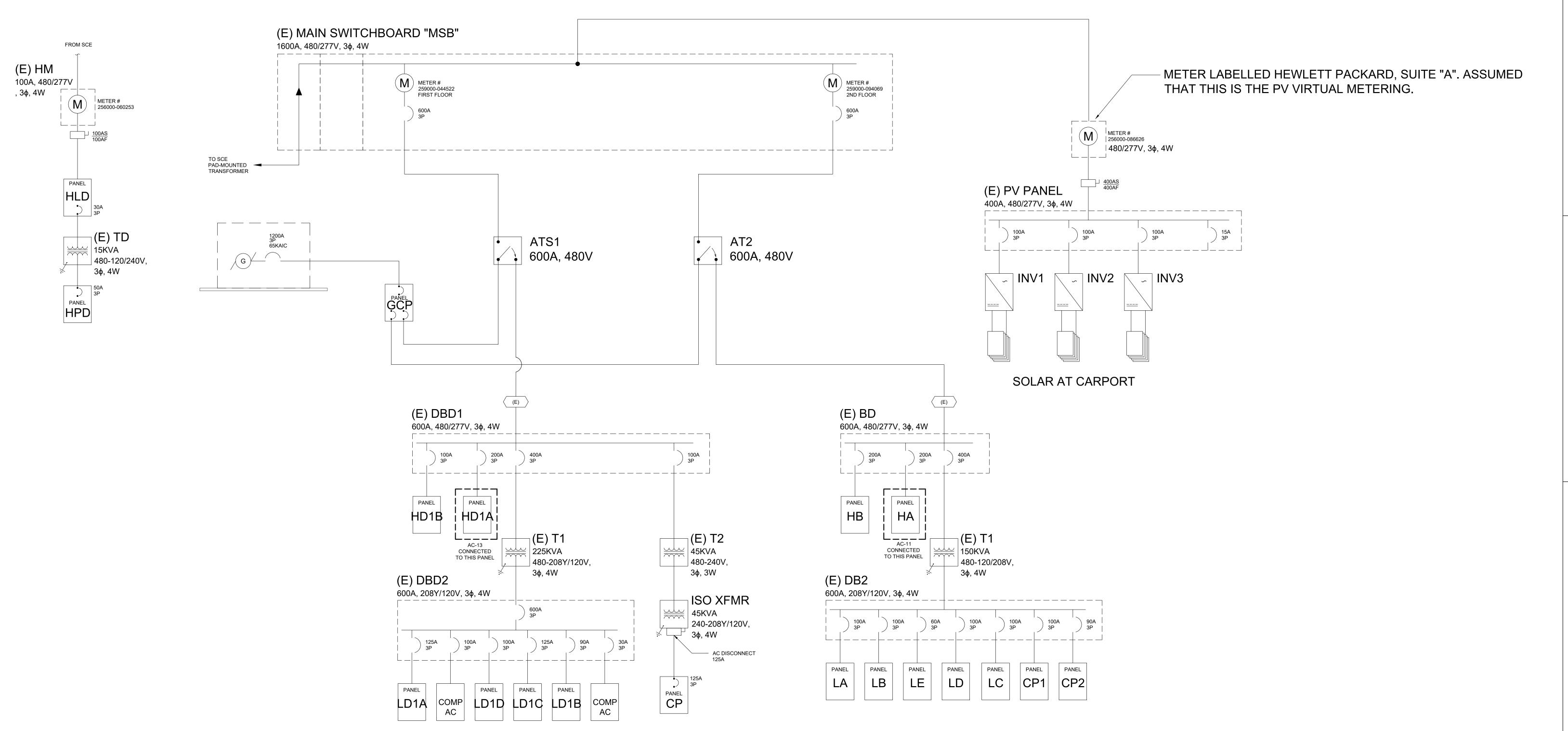
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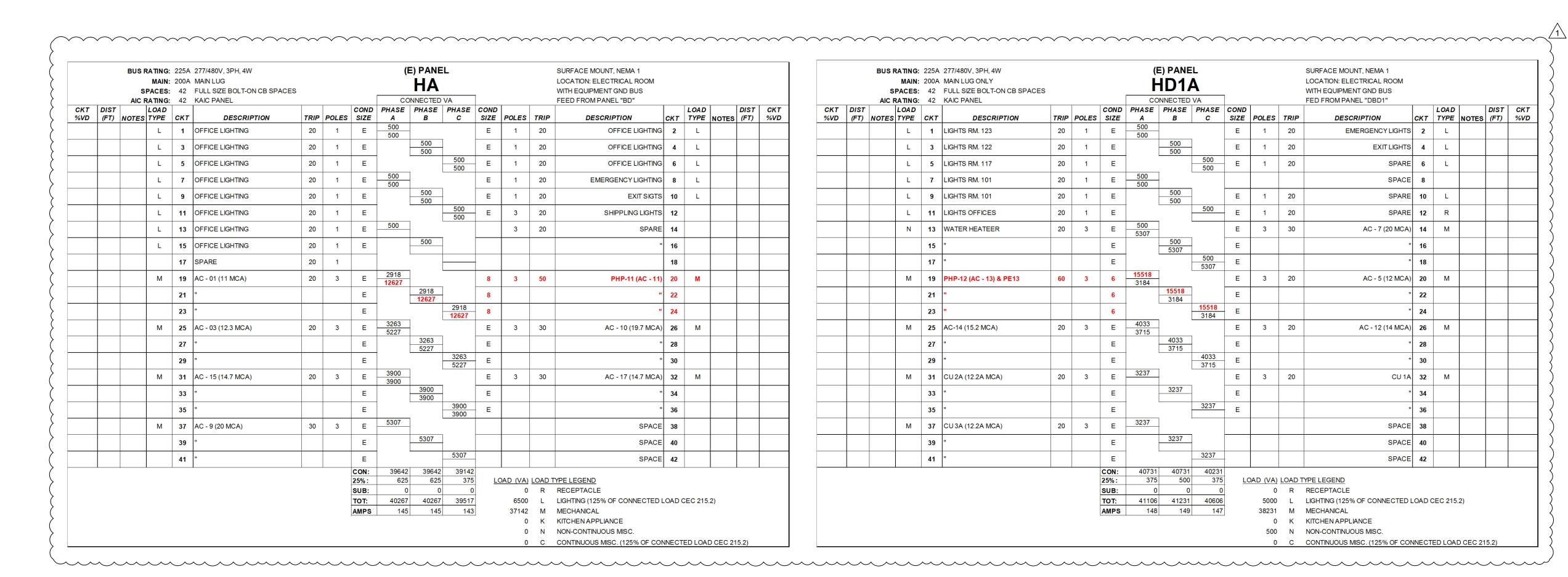
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# 1 SINGLELINE DIAGRAM





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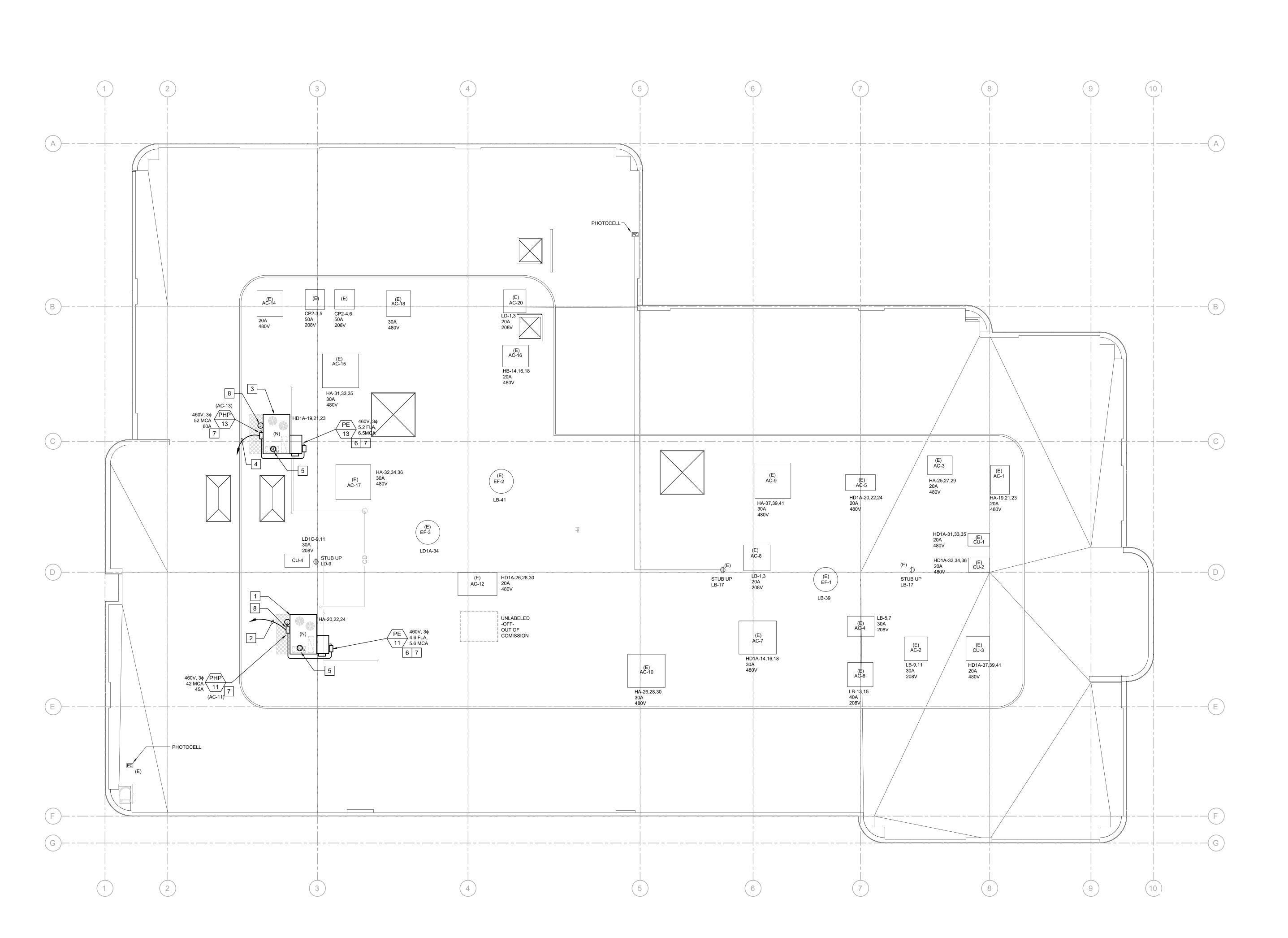
GOLETA CITY HALL - HVAC
REPLACEMENT
30 CREMONA DRIVE, GOLETA CA 93117
SINGLE LINE DIAGRAM

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1806-03-PS24 SHEET **E-011** 



# ☐ REFERENCE NOTES

1. AC-11 – EXISTING CONDITIONS AND UPGRADE:

\*AC-11 IS CURRENTLY CONNECTED TO PANEL HA ON THE SECOND FLOOR VIA AN EXISTING 3/4" HOMERUN CONDUIT SHARED WITH ANOTHER 3-PHASE CIRCUIT.

\*EXISTING WIRING CONSISTS OF (6)#10 CONDUCTORS + #10 CU GROUND.

\*THE CONDUIT RUNS TO AN EXISTING J-BOX ABOVE THE CEILING, THEN SPLITS INTO A DEDICATED CONDUIT RUNNING UP THROUGH THE ROOF.

\*A 3/4" CONDUIT PENETRATES THE ROOF AND TERMINATES IN AN LB FITTING WITH SEAL-TIGHT CONDUIT CONNECTED TO THE DISCONNECT.

\*REPLACE THE EXISTING 480V, 30A, 3P, NEMA 3R DISCONNECT WITH A NEW 480V, 60A, 3P, NEMA 3R DISCONNECT.

\*FIELD-LOCATE AND RE-USE THE EXISTING ROOF PENETRATION.

2. AC-11 – ELECTRICAL UPGRADE:

\*REMOVE THE EXISTING (3)#10 CONDUCTORS FROM AC-11.

\*INSTALL A NEW HOMERUN TO PANEL HA USING 3/4" CONDUIT WITH

\*REPLACE THE EXISTING 30A, 3-POLE BREAKER IN PANEL HA WITH A NEW 480V, 50A, 3-POLE BREAKER, MATCHING THE PANEL RATING AND VOLTAGE REQUIREMENTS.

3. AC-13 – EXISTING CONDITIONS:

(3)#8 AND (1)#10 CU GROUND.

\*AC-13 IS CONNECTED TO PANEL HD1A ON THE FIRST FLOOR VIA A DEDICATED 3/4" CONDUIT CONTAINING (3)#8 AND (1)#10 CU GROUND.

\*THE CONDUIT PENETRATES THE ROOF INTO AN LB FITTING.

\*FIELD-LOCATE AND RE-USE THE EXISTING ROOF PENETRATION.

\*REPLACE THE EXISTING 480V, 40A, 3P, NEMA 3R DISCONNECT WITH A NEW 480V, 60A, 3P, NEMA 3R DISCONNECT.

4. <u>AC-13 – CONDUIT AND CONDUCTOR UPGRADE:</u>

\*THE EXISTING 3/4" CONDUIT IS UNDERSIZED FOR THE NEW CONDUCTOR REQUIREMENTS.

\*ABANDON AND REMOVE THE EXISTING 3/4" CONDUIT AND DISCONNECT THE CONDUCTORS.

\*PROVIDE A NEW 1" CONDUIT HOMERUN WITH (3)#6 AND (1)#8 CUGROUND.

\*RE-USE ONE OF THE EXISTING #8 CONDUCTORS AS THE GROUND, WHERE CODE-COMPLIANT.

\*PROVIDE A NEW ROOF PENETRATION AS REQUIRED FOR CONDUIT ROUTING.

\*REPLACE THE EXISTING 40A, 3-POLE BREAKER IN PANEL HD1A WITH A NEW 480V, 60A, 3-POLE BREAKER, MATCHING THE PANEL RATING AND

VOLTAGE REQUIREMENTS.

5. PROVIDE FIRE ALARM CONNECTION TO NEW SMOKE DUCT DETECTOR PER MECHANICAL PLANS. CONNECT TO EXISTING FIRE ALARM SYSTEM.

6. NEW POWER EXHAUST HAS AN INTEGRAL DISCONNECT. PROVIDE SEPARATE CONNECTION FOR NEW AC UNIT.

7. PROPOSED DISCONNECT SHOWN IS FOR REFERENCE ONLY.
COORDINATE WITH UNIT EQUIPMENT FOR EXACT LOCAITON PRIOR TO
ROUGH-IN.

8. PROVIDE WP JUNCTION BOX AND 3/4"CONDUIT WITH PULL STRING DOWN TO SECOND FLOOR ACCESSIBLE CEILING SPACE FOR FUTURE BUILDING ENERGY MANAGEMENT SYSTEM CONTROL WIRING.



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GOLETA CITY HALL - HVAC
REPLACEMENT

130 CREMONA DRIVE, GOLETA CA 93117

ELECTRICAL ROOF PLAN

NO. REVISION DATE

PROJECT MANAGER
CJ
DRAWN BY
TR/CJ
DATE

TR/CJ CJ/JT

DATE

AUGUST 25, 2025

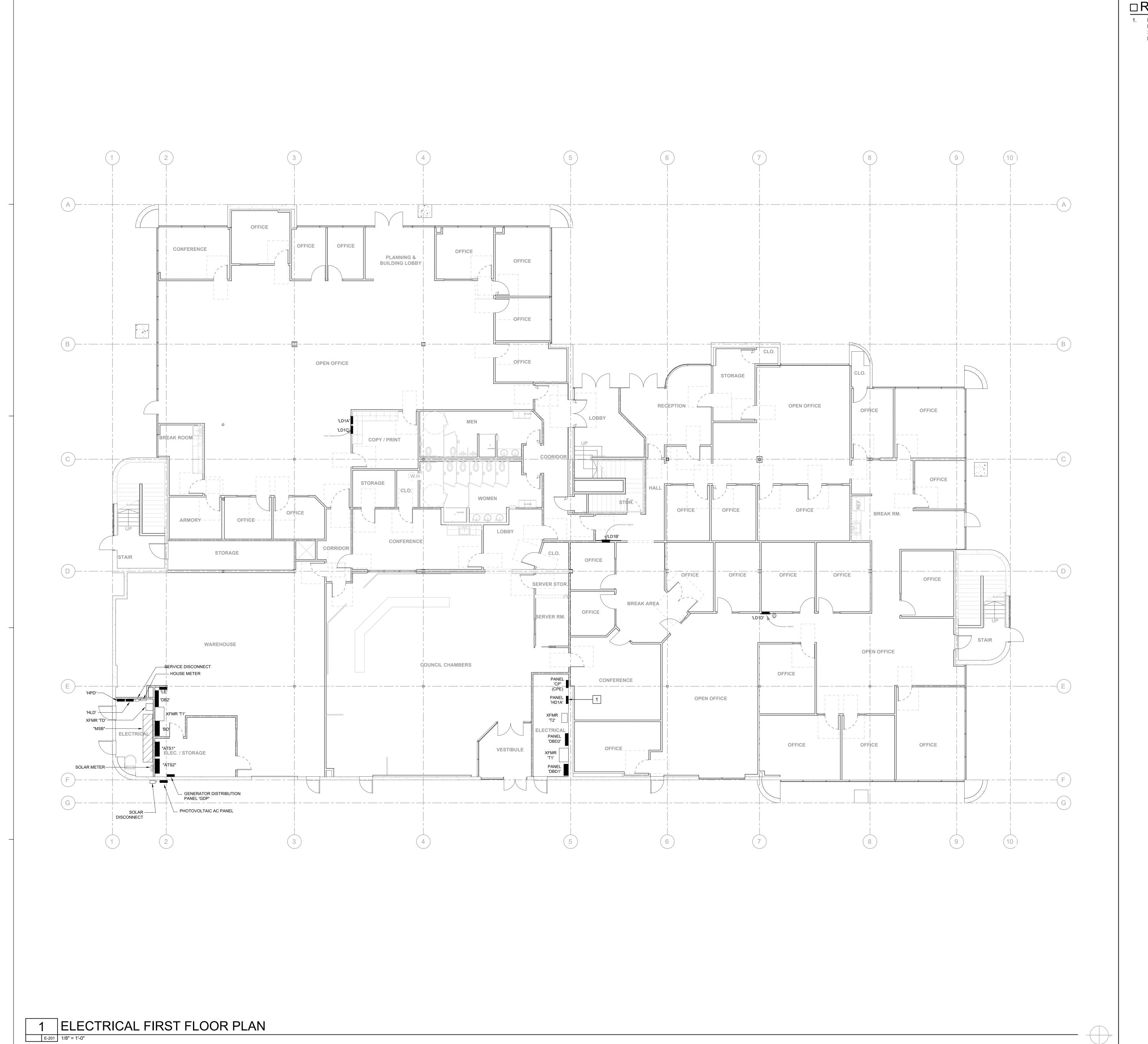
PROJECT NUMBER

1806-03-PS24

E-101

A SHEET

ELECTRICAL ROOF PLAN



□ REFERENCE NOTES

1. PANEL HD1A CIRCUIT 19/21/23 FEED EXISTING ROOF MOUNTED AC-13. REPLACE THE EXISTING 40A, 3-POLE BREAKER WITH NEW 480V, 60A, 3-POLE BREAKER, MATCHING THE PANEL RATING AND VOLTAGE REQUIRMENTS. EXISTING PANEL AND BREAKER IS SQUARE D COMPANY.







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REPLACEMENT

130 CREMONA DRIVE, GOLETA CA 93117

ELECTRICAL FIRST

FLOOR PLAN

PROJECT MANAGER

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DATE

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PROJECT NUMBER

E-201

1806-03-PS24

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# OFFICE OPEN OFFICE OFFICE CONFERENCE OFFICE OFFICE OFFICE **OPEN OFFICE** OFFICE RECEPTION FILE STORAGE CONFERENCE CONFERENCE **OPEN OFFICE** 1 ELECTRICAL SECOND FLOOR PLAN

# □ REFERENCE NOTES

1. EXISTING PANEL HA CIRCUIT 20/22/24 FEED EXISTING ROOF MOUNTED AC-11. REPLACE THE EXISTING 30A, 3-POLE BREAKER WITH NEW 480V, 50A, 3-POLE BREAKER, MATCHING THE PANEL RATING AND VOLTAGE REQUIRMENTS. EXISTING PANEL AND BREAKER IS SQUARE D COMPANY.

2. EXISITING FIRE ALARM SYSTEM. PROVIDE FIRE ALARM CONNECTION TO NEW SMOKE DUCT DETECTORS PER MECHANICAL PLANS.



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E-202