

GENERAL NOTES	
1. THESE DOCUMENTS MAY NOT BE USED FOR ANY REPRODUCTION, BIDDING, OR CONSTRUCTION UNLESS AUTHORIZED, IN WRITING, BY SALAS O'BRIEN AND THE ENGINEER OF RECORD RESPONSIBLE FOR THEIR PREPARATION.	
2. ALL BRANCH DUCTS MUST HAVE BALANCE DAMPERS WITH QUADRANT LOCKS.	
3. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.	
4. DUCTWORK MUST BE GALVANIZED SHEET METAL IN COMPLETE CONFORMANCE WITH C.M.C., AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS. FLEXIBLE DUCTS MAY BE USED TO CONNECT INTO AIR OUTLETS AND INLETS. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK MUST BE 5'-0".	
DUCTWORK ON ROOF MUST BE INTERNALLY LINED AND PAINTED. ALL JOINTS AND SEAMS MUST BE WEATHERPROOF.	
ALL BRACING OF DUCTS AND PIPING MUST BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES.	
DUCTS SERVING TYPE 1 KITCHEN HOODS MUST BE CONSTRUCTED OF MINIMUM 16 GAUGE CARBON STEEL OR MINIMUM 18 GAUGE STAINLESS STEEL WITH FULLY WELDED JOINTS. DISHWASHER EXHAUST MUST BE MINIMUM 18 GAUGE STAINLESS STEEL.	
5. ALL FLEXIBLE DUCTS MUST BE INSULATED. MINIMUM BEND RADIUS MUST BE TWICE THE DUCT DIAMETER.	
6. SUPPLY AND RETURN DROPS MUST BE LINED SHEET METAL PLENUMS.	
7. DUCT AND PLENUM INSULATION MUST BE IN ACCORDANCE WITH THE 2025 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 8, ENERGY EFFICIENCY STANDARDS (E.E.S.), TABLE 150.1-A AND THE 2025 CALIFORNIA MECHANICAL CODE (C.M.C.) SECTION 605.0.	
8. ALL SHEET METAL DUCTS MUST BE INSULATED BY MEANS OF FOIL WRAP, 3/4 LB. DENSITY FIBERGLASS INSULATION. INSULATION MUST BE UL LISTED. DUCT LINERS MUST BE NON-FIBERGLASS TYPE WITH THICKNESS AS REQUIRED TO MEET T-24 REQUIREMENTS.	
9. THERMOSTATS MUST BE LOCATED AT 4' - 0" ABOVE FINISHED FLOOR (48" MAX. IF MOUNTED OVER CASEWORK OR OTHER OBSTRUCTION) IN ACCORDANCE WITH A.D.A. REQUIREMENTS, UNLESS NOTED OTHERWISE.	
10. CONDENSATE DRAIN PIPING MUST BE COPPER TYPE "L", AND MUST BE ROUTED TO AN APPROVED RECEPTOR.	
11. PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL FANS.	
12. COORDINATE FINAL LOCATIONS OF AIR DISTRIBUTION DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, I.E. LIGHTS, SPEAKERS, TILES AND SPRINKLER HEADS.	
13. ALL SUPPLY CEILING DIFFUSERS MUST HAVE 4-WAY AIR FLOW DISTRIBUTION PATTERNS, UNLESS INDICATED OTHERWISE.	
14. COORDINATE FINAL LOCATIONS OF THERMOSTATS WITH ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. FIELD COORDINATE LOCATIONS WITH OTHER TRADES INCLUDING ELECTRICAL, TELEPHONE, ETC.	
15. FIRE/SMOKE DAMPERS MUST BE INSTALLED ON ALL DUCTWORK PASSING THROUGH FIRE SEPARATING WALLS, AND MUST BE INSTALLED AS PER 2025 CMC SECTION 606.0, 2022 CBC SECTION 717, AND UL, LOCAL, STATE, AND N.F.P.A. FIRE CODES.	
16. ALL ROOF PENETRATIONS, CUTTING, PATCHING, BLOCKOUTS, STRUCTURAL SUPPORT, ROOF OPENINGS, LEVELING OF PRE-FAB CURBS MUST BE BY GENERAL CONTRACTOR. CONTRACTOR MUST VERIFY EXACT ROOF OPENING SIZES WITH THE MANUFACTURER PRIOR TO START OF WORK AND MUST MAKE ALL NECESSARY ADJUSTMENTS AT NO EXTRA COST TO OWNER.	
17. LOCATION OF ALL MECHANICAL EQUIPMENT SHOWN ARE SCHEMATIC. CONTRACTOR MUST FIELD COORDINATE EXACT LOCATIONS AND REQUIRED SERVICE/MAINTENANCE CLEARANCES PRIOR TO START OF WORK.	
18. CONTRACTOR MUST VERIFY WEIGHTS OF ALL MECHANICAL EQUIPMENT WITH THEIR MANUFACTURER PRIOR TO START OF WORK. IF DIFFERENT THAN THE WEIGHTS INDICATED ON DRAWINGS, CONTRACTOR MUST INFORM THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO START OF WORK.	
19. CONTRACTOR MUST VERIFY ALL ELECTRICAL LOADS W/MFR. AND COORDINATE WITH THE ELECTRICAL CONTRACTOR AND THE MANUFACTURER PRIOR TO START OF WORK. NOTIFY THE ARCHITECT, IN WRITING, IN CASE OF ANY DISCREPANCIES, PRIOR TO START OF WORK.	
20. ALL HVAC EQUIPMENT, APPLIANCES, AND DUCTWORK MUST CONFORM TO THE LATEST GUIDELINES OF U.L., A.G.A., N.F.P.A., C.M.C., C.P.C., AND ALL OTHER LOCAL CODES HAVING JURISDICTION.	
21. TEST AND BALANCE THE HVAC SYSTEM AS PER REQUIREMENTS OF THE MANDATORY HVAC MEASURES INDICATED ON THIS SHEET.	
22. CONTRACTOR MUST FIELD VERIFY EXACT CEILING SPACE AVAILABLE FOR ROUTING OF DUCT, PRIOR TO START OF WORK, INFORM ARCHITECT, IN WRITING, IN CASE OF ANY DISCREPANCY OR POTENTIAL CONFLICTS PRIOR TO FABRICATING AND/OR PURCHASE OF ANY DUCTWORK.	
23. ALL HVAC UNITS SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM OR SERVING A COMMON AIR SPACE MUST BE INTERCONNECTED TO SHUT DOWN IMMEDIATELY UPON ALARM CONDITION FROM DUCT DETECTORS (OR FIRE ALARM SYSTEM WHEN USING AREA SMOKE DETECTORS IN LIEU OF DUCT DETECTORS) WITHOUT INTERFACE FROM EMS OR ANY OTHER SYSTEMS. ALL CONTROL RELAYS USED FOR SHUT DOWN MUST BE CALIFORNIA STATE FIRE MARSHAL LISTED FOR RELEASING SERVICE.	
24. ACCESS PANELS MUST BE PROVIDED TO ALL EQUIPMENT, MANUAL VOLUME DAMPERS, ETC. LOCATED IN INACCESSIBLE AREAS.	
25. MAINTAIN MINIMUM 10'-0" BETWEEN ALL OA INTAKES AND EXHAUST AIR DISCHARGES OR VENTS.	

LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
		DEMOLITION
		ITEM TO BE RELOCATED
	10x6	FLEXIBLE CONNECTION, DUCTWORK
	(L)	DUCT SIZE (1ST NUMBER INDICATES SIDE SHOWN)
	(TV)	INTERNALLY LINED DUCTWORK
	TV	SQUARE ELBOW WITH TURNING VANES
		ROUND ELBOW
	MVD	MANUAL VOLUME DAMPER
	BD	BACKDRAFT DAMPER
	FSD	FIRE SMOKE DAMPER
	OA	OUTSIDE AIR
		ROUND DUCT UP
		ROUND DUCT DOWN
		CEILING SUPPLY AIR DIFFUSER (4-WAY THROW UNLESS NOTED OTHERWISE)
	SA	SUPPLY AIR
	RR/RG	RETURN AIR REGISTER/GRILLE
	RA	RETURN AIR
	ER/EG	EXHAUST AIR REGISTER/GRILLE
	EA	EXHAUST AIR
	AP	CEILING ACCESS PANEL
	SA	RECTANGULAR SUPPLY DUCT UP
	RA	RECTANGULAR RETURN DUCT UP
	EA	RECTANGULAR EXHAUST DUCT UP
	SA	RECTANGULAR SUPPLY DUCT DOWN
	RA	RECTANGULAR RETURN DUCT DOWN
	EA	RECTANGULAR EXHAUST DUCT DOWN
	TSTAT	THERMOSTAT
	HSTAT	HUMIDISTAT
	S	WALL SWITCH/WALL STAT
	CO	CARBON MONOXIDE SENSOR
	CO2	CARBON DIOXIDE SENSOR
	SD	DUCT MOUNTED SMOKE DETECTOR INTERLOCK WITH FIRE ALARM. SEE ELEC. DWGS.
	TC	TIME CLOCK (ELECTRONIC PROGRAMMABLE)
	TS	TIMER SWITCH
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT
	CFM	CUBIC FEET PER MINUTE
	CHWR	CHILLED WATER RETURN
	CHWS	CHILLED WATER SUPPLY
	HHWR	HEATING HOT WATER RETURN
	HHWS	HEATING HOT WATER SUPPLY
	ACI	AMERICAN CONCRETE INSTITUTE
	A.D.A.	AMERICANS WITH DISABILITIES ACT
	A.F.F.	ABOVE FINISH FLOOR
	A.G.A.	AMERICAN GAS ASSOCIATION
	AL	ALUMINUM
	AMB.	AMBIENT
	APRX.	APPROXIMATE(LY)
	ARCH.	ARCHITECT OR ARCHITECTURAL
	ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
	BHP	BRAKE HORSEPOWER
	BLDG	BUILDING
	BTU(H)	BRITISH THERMAL UNIT (PER HOUR)
	B.U.R.	BUILT-UP ROOFING
	CAP.	CAPACITY
	C.B.C.	CALIFORNIA BUILDING CODE
	C.E.C.	CALIFORNIA ENERGY COMMISSION
	C.M.C.	CALIFORNIA MECHANICAL CODE
	C.P.C.	CALIFORNIA PLUMBING CODE
	CD	CONDENSATE DRAIN
	CGBSC	CALIFORNIA GREEN BUILDING STANDARDS COMMISSION
	CHW	CHILLED WATER
	CONC.	CONCRETE
	COND.	CONDITIONS
	CONN.	CONNECTIONS
	COORD.	COORDINATE
	C.O.P.	COEFFICIENT OF PERFORMANCE
	CORR.	CORRIDOR
	CU	COPPER
	CW	COLD WATER
	DB	DRY BULB
	DET.	DETAIL
	DIM.	DIMENSIONS
	DN.	DOWN
	DWG(S)	DRAWING(S)

LEGEND (CONT.)		
SYMBOL	ABBREV.	DESCRIPTION
	DX	DIRECT EXPANSION
	(E)	EXISTING
	EAT	ENTERING AIR TEMPERATURE
	EDB.	ENTERING DRY BULB
	ENT.	ENTERING
	EQ.	EQUAL
	EWT	ENTERING WATER TEMPERATURE
	EER	ENERGY EFFICIENCY RATIO
	E.E.S.	ENERGY EFFICIENCY STANDARDS
	EFF.	EFFICIENCY
	ELEC.	ELECTRICAL
	ESP	EXTERNAL STATIC PRESSURE (INCHES OF WATER)
	FAB	FABRICATED
	F.A.R.	FREE AREA REQUIRED
	FLA	FULL LOAD AMPS
	FPM	FEET PER MINUTE
	FT.	FEET
	GA.	GAUGE
	GALV.	GALVANIZED
	GPM	GALLONS PER MINUTE
	GSM	GALVANIZED SHEET METAL
	HERS	HOME ENERGY RATING SYSTEM
	HHW	HEATING HOT WATER
	HP	HORSEPOWER
	HSPF	HEATING SEASONAL PERFORMANCE FACTOR
	HVAC	HEATING, VENTILATION AND AIR CONDITIONING
	I.B.C.	INTERNATIONAL BUILDING CODE
	I.M.C.	INTERNATIONAL MECHANICAL CODE
	I.P.C.	INTERNATIONAL PLUMBING CODE
	IN.	INCHES
	IPLV	INTEGRATED PART-LOAD VALUE
	KW	KILOWATT
	LAT	LEAVING AIR TEMPERATURE
	LBS.	POUNDS
	LVG.	LEAVING
	LWT	LEAVING WATER TEMPERATURE
	MECH.	MECHANICAL
	MAX.	MAXIMUM
	MB	MACHINE BOLT
	MBH	1000 BTUH
	MCA	MINIMUM CIRCUIT AMPACITY
	MFR	MANUFACTURER
	MIN.	MINIMUM
	MOCP	MAXIMUM OVERCURRENT PROTECTION
	MTG.	MOUNTING
	MVD	MANUAL VOLUME DAMPER
	NA	NOT APPLICABLE
	N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION
	NIC	NOT IN CONTRACT
	NC	NOISE CRITERIA
	NO.	NUMBER
	OBD	OPPOSED BLADE DAMPER
	OPER.	OPERATING
	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
	PH	PHASE
	QTY.	QUANTITY
	RECT.	RECTANGLE/RECTANGULAR
	RPM	REVOLUTIONS PER MINUTE
	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	SF	SQUARE FEET
	SQ.	SQUARE
	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
	S.M.S.	SHEET METAL SCREW
	S.O.V.	SHUT-OFF VALVE
	SPD	STATIC PRESSURE DROP
	SQFT	SQUARE FEET
	STRUC.	STRUCTURAL
	STL.	STEEL
	TEMP.	TEMPERATURE
	THRU	THROUGH
	TSP	TOTAL STATIC PRESSURE
	TYP.	TYPICAL
	U/C	UNDERCUT DOOR
	U.L.	UNDERWRITER'S LABORATORIES
	U.F.C.	UNIFIED FACILITIES CRITERIA
	V	VOLTAGE/VOLTS
	VEL.	VELOCITY
	VAV	VARIABLE AIR VOLUME
	VFD	VARIABLE FREQUENCY DRIVE
	WB	WET BULB
	WT.	WEIGHT

MANDATORY HVAC SYSTEM MEASURES	
1. ALL WORK INDICATED ON DRAWINGS AND/OR SPECIFICATIONS MUST BE COORDINATED WITH WORKS OF OTHER TRADES PRIOR TO START OF WORK.	
2. ALL HVAC EQUIPMENT LISTED IN SECTION 100(H) OF THE E.E.S. MUST BE C.E.C. CERTIFIED.	
3. ALL PIPING INSULATION MUST BE CONSISTENT WITH THE REQUIREMENTS OF C.M.C. SECTIONS 1201.2 AND TABLE E 502.5, AND E.E.S. SECTION 120.3-A.	
4. ALL DUCTWORK INSULATION MUST BE CONSISTENT WITH THE REQUIREMENTS OF SECTIONS C.M.C. SECTION 605.0 TITLE 24 E.E.S. TABLE 150.1-A.	
5. ALL HVAC EQUIPMENT AND APPLIANCE MUST MEET THE REQUIREMENTS PER SECTIONS 110.1-110.2, 110.5 AND 120.1-120.7 E.E.S.	
6. ALL HVAC SYSTEMS MUST MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.2 E.E.S.	
7. ALL VENTILATION SYSTEMS MUST BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE C.M.C.	
8. THE CONTRACTOR MUST PROVIDE THE BUILDING OWNER, MANAGER, AND THE ORIGINAL OCCUPANTS A LIST OF THE HEATING, VENTILATION, AND AIR CONDITIONING FEATURES, MATERIALS, AND COMPONENTS INSTALLED IN THE BUILDING AND OPERATING INSTRUCTIONS.	
9. INSULATION MATERIAL MUST MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 120.3 AND 120.4 E.E.S.	
10. ALL SPACE CONDITIONING AND VENTILATION SYSTEMS MUST BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS, OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS. TESTING AND BALANCING MUST BE DONE BY AN INDEPENDENT QUALIFIED AGENCY.	
11. ALL SYSTEMS MUST PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND MUST BE MEASURED AND CERTIFIED BY AN INDEPENDENT QUALIFIED TESTING AGENCY.	
12. DUCT INSULATION MUST HAVE A MINIMUM INSTALLED R-VALUE OF 8.0.	
13. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS MUST BE SEALED AND MECHANICAL EQUIPMENT MUST BE COVERED TO PROTECT INTEGRITY OF SYSTEM CLEANLINESS. CGBSC 5.504.3.	
14. PRIOR TO FINAL APPROVAL OF THE BUILDING, THE LICENSED CONTRACTOR, ARCHITECT, OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVE TO THE BUILDING DEPARTMENT OFFICIAL TO BE FILED WITH THE APPROVED PLANS.	
15. PROVIDE TEMPORARY MEANS OF BUILDING VENTILATION DURING CONSTRUCTION IN ACCORDANCE WITH CGBSC SECTION 5.504.1.	
16. BUILDING FLUSH-OUT MUST BE PERFORMED AND MONITORED UPON CONSTRUCTION COMPLETION IN ACCORDANCE WITH CGBSC SECTION A5.504.2.	
17. ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS MUST BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.	
18. FOR NEW BUILDINGS OVER 10,000 SQUARE FEET IN FLOOR AREA, UNLESS NOTED OTHERWISE, FUNDAMENTAL BUILDING COMMISSIONING FOR HVAC, LIGHTING AND DOMESTIC HOT WATER SYSTEMS MUST BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 23 08 00 AND THE CGBSC SECTION 5.410.2.	
19. THERMOSTATIC CONTROLS FOR ALL SINGLE ZONE AIR CONDITIONERS AND HEAT PUMPS MUST COMPLY WITH THE REQUIREMENTS OF EES SECTION 110.2(C) AND REFERENCE JOINT APPENDIX JAS. THERMOSTAT MUST BE CAPABLE OF COMMUNICATING THROUGH EITHER (1) AT LEAST ONE EXPANSION PORT WITH A REMOVABLE MODULE TO ENABLE COMMUNICATION; OR (2) ON BOARD COMMUNICATION DEVICE.	
20. DUCTWORK MUST BE LEAK TESTED IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL FOR A REPRESENTATIVE TOTAL NOT LESS THAN 10% OF INSTALLED DUCTWORK IN ACCORDANCE WITH THE REQUIREMENTS OF CMC 603.9.2.	

ANCHORAGE AND BRACING NOTES

APPLICABLE CODE: 2025 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS MUST BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS MUST BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2025 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS

2. TEMPORARY, MOVEABLE, OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" MUST INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS MUST BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS MUST HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS MUST BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTION 13.6.5, 13.6.6, 13.6.7, AND 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEMS ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-15.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP□ MD□ PP□ E□ OPTION 1: PROJECT-SPECIFIC DESIGN.

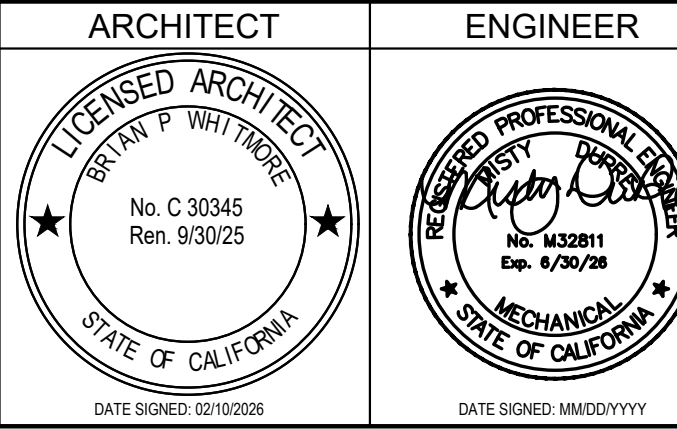
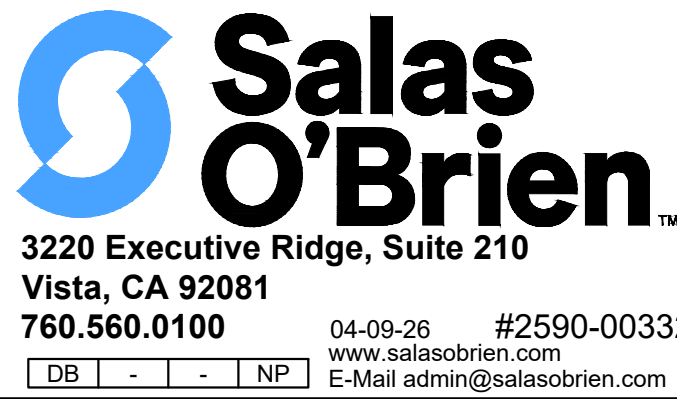
MP□ MD□ PP□ E□ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.

MP□ MD□ PP□ E□ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

DSA STAMP



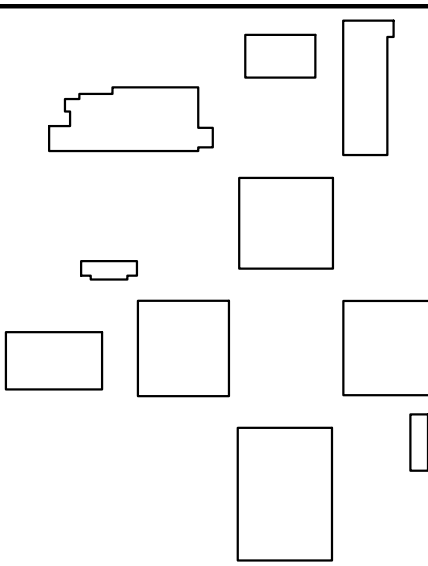
Studio W Architects
424 32nd St Suite D/E,
Newport Beach, CA 92663
[T] 949.774.2920
www.StudioW-Architects.com



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NO.	REMARKS	DATE

DRAWING STATUS	DATE
☒ DSA PLAN CHECK	04/09/2026
☐ DSA BACK CHECK	
☐ BIDDING	
☐ CONSTRUCTION	



PLACENTIA-YORBA LINDA
UNIFIED SCHOOL
DISTRICT
1301 E ORANGETHORPE AVE
PLACENTIA, CA 92870

DSA SUBMITTAL

GOLDEN ELEMENTARY
SCHOOL
RESTROOM ADDITIONS
740 GOLDEN AVE, PLACENTIA, CA
92870

MECHANICAL
LEGEND AND
GENERAL NOTES

Date 04/09/2026	Project Number 25060
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EXHAUST FAN SCHEDULE														
TAG	MANUFACTURER & MODEL NO.	SERVES	CFM	ESP (IN. W.G.)	DRIVE TYPE	RPM	BHP (WATTS)	HP (WATTS)	MAX. SONES	V	PH	FAN TYPE	OPER. WEIGHT (LBS.)	REMARKS
EF 1G	GREENHECK SP-A90	RESTROOM G114	70	0.3	DIRECT	900	0.01	(15)	0.5	115	1	CEILING	25	12345678
EF 2G	GREENHECK SP-A90	RESTROOM G115	70	0.3	DIRECT	900	0.01	(15)	0.5	115	1	CEILING	25	12345678

- 1 PROVIDE WITH INTEGRAL BACKDRAFT DAMPER AND CEILING GRILLE.

2 PROVIDE ALL MOUNTING HARDWARE INCLUDING SEISMIC BRACING. SEE DETAIL 3/MS.1.

3 PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER. INSTALL AT FAN HOUSING. COORDINATE CFM WITH CERTIFIED T.A.B. AGENCY.
- 4 PROVIDE THERMAL OVERLOAD PROTECTION ON FAN MOTOR.

5 INTERLOCK WITH LIGHT SWITCH, SEE DETAIL 1/MS.1. SEE ELECTRICAL DRAWINGS FOR LIGHT SWITCH LOCATION.

6 PROVIDE WITH DISCONNECT SWITCH, BY OTHERS.

7 PROVIDE ALL CONTROL WIRING IN CONDUIT AND ALL ACCESSORIES REQUIRED BY MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 8 FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER AND COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.

DSA STAMP

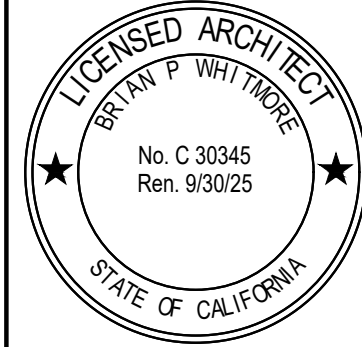


Studio W Architects
424 32nd St Suite D/E,
Newport Beach, CA 92663
[T] 949.774.2920
www.StudioW-Architects.com



**Salas
O'Brien™**
3220 Executive Ridge, Suite 210
Vista, CA 92081
760.560.0100

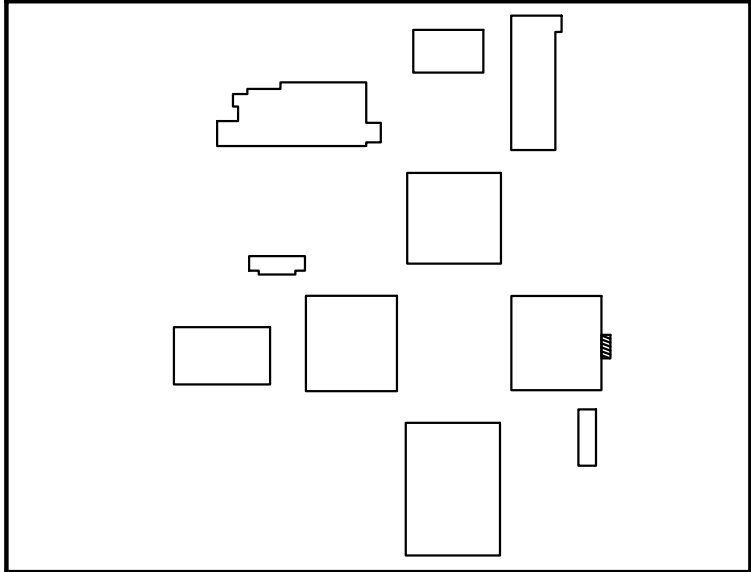
04-09-26#2590-00332
www.salasobrien.com
E-Mail admin@salasobrien.com

ARCHITECT	ENGINEER
	
DATE ISSUED: 05/10/2025	DATE SIGNED: 06/03/2025

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REVISION HISTORY	NO.	REMARKS	DATE

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DISTRICT
1301 E ORANGETHORPE AVE
PLACENTIA, CA 92870

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GOLDEN ELEMENTARY
SCHOOL
RESTROOM ADDITIONS
740 GOLDEN AVE, PLACENTIA, CA
92870

MECHANICAL
SCHEDULES

Date 04/09/2026	Project Number 25060
Application Number 04-125322	Drawing Number
Drawn SO	Checked SO

M0.2

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Envelope Component Approach

CERTIFICATE OF COMPLIANCE

Project Name: PYLUSD Golden ES RR Add

Report Page: NRCC-ENV-4 (Page 7 of 9)

Date Prepared: 3/30/2026

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design ¹	Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft ²
(E)Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New			☐ \$110.6 Defaults	U-factor (max)	0.71	0.71	42
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.73	0.73	
						VT (min)	0.88	0.5	
(E)Window	Fixed window	Nonresidential/ Relocatable 1 CZ : New			☐ \$110.6 Defaults	U-factor (max)	0.71	0.71	42
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.73	0.73	
						VT (min)	0.88	0.5	

FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.

The NA6 Default Calculation can only be used for alterations or dwelling units in buildings with <= 3 habitable stories. Alterations are limited to 200ft² of site built glazing and dwelling units are limited to 250ft² or 5% of conditioned floor area. If the fenestration does not meet these conditions, the only options for determining fenestration values are NFRC Certification or the Default Tables in §110.6.

Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an effect on the RSHGC. If an overhang does not meet this requirement, the effect of the overhang will be ignored.

Projecting includes casement and awning windows.

Area-Weighted Average U-factor, SHGC, VT Compliance Calculation for Vertical Fenestration And Glazed Doors

01	02	03	04	05
Product Performance Unit	Total Area of Fenestration (ft ²)	Area-weighted Calculation for Fenestration Required	Designed	Compliance Results Using Area-Weighted Calculation Option
U-Factor	84	0	0	COMPLIES
(R)SHGC	84	0	0	COMPLIES
VT	84	1.752	0	COMPLIES

Generated Date/Time: Documentation Software: EnergyPro

Report Version: 2025.0.000 Schema Version: rev 20250101

Compliance ID: EPR-5511-0326-0088 Report Generated: 2026-03-30 14:56:31

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Envelope Component Approach

CERTIFICATE OF COMPLIANCE

Project Name: PYLUSD Golden ES RR Add

Report Page: NRCC-ENV-4 (Page 8 of 9)

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L. DAYLIGHT IN LARGE ENCLOSED SPACES

This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-ENV-E - Must be submitted for all buildings

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-4. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NAT-3.1

Form/Title

Systems/Spaces To Be Field Verified

NRCA-ENV-Q2-F must be submitted for all new, added or altered site built fenestration.

O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

Generated Date/Time: Documentation Software: EnergyPro

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CERTIFICATE OF COMPLIANCE

Project Name: PYLUSD Golden ES RR Add

Report Page: NRCC-ENV-4 (Page 5 of 9)

Date Prepared: 3/30/2026

H. WALL ASSEMBLY SCHEDULE

Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Spandrel/ Curtain/ Metal Panel/ Straw Bale Wall Types

03	04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location/ Fire Rating	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design	Net Area ft ²
Exterior Wall - E	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	2x6	19	0	U-factor	0.095	per JA4 per Software/ Other 0.074	63
(A)Exterior Wall - E	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	2x6	19	0	U-factor	0.11	per JA4 per Software/ Other 0.074	257
Exterior Wall - N	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	2x6	19	0	U-factor	0.095	per JA4 per Software/ Other 0.074	72
Exterior Wall - E	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	2x6	19	0	U-factor	0.095	per JA4 per Software/ Other 0.074	63

FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other wall types. Wood framed walls are combined with SIPs, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per §141.0(b)1B.

Wall area minus any fenestration area

14 Location in Construction Documents Showing Air Barrier A-Sheets

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CERTIFICATE OF COMPLIANCE

Project Name: PYLUSD Golden ES RR Add

Report Page: NRCC-ENV-4 (Page 6 of 9)

Date Prepared: 3/30/2026

H. WALL ASSEMBLY SCHEDULE

Area-Weighted Average U-factor Compliance Calculation for Wood Framed/ SIPs/ Spandrel/ Curtain/ Metal Panel/ Straw Bale Wall Types

01	02	03	04	05
Wall Type	Total Area of Wall Type (ft ²)	Area-weighted U-factor for Wall Type Required	Designed	Compliance Results Using Area-Weighted Calculation Option
Framed	784	0.105	0.074	
Total for all Wall Types:	784	0.105	0.074	COMPLIES

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

J. EXTERIOR DOOR SCHEDULE

This section does not apply to this project.

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in §140.3(a)5/ §170.2(a)3 for new constructions, §141.0(a)/ §180.1 for additions, or §141.0(b)2A/ §180.2 for alterations. Exterior doors that are more than 25% glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01	Indicate fenestration types included in the project: ¹	Vertical (alterations)	Vertical (new)	Skylights	Glazed Doors (new only)
01	Indicate fenestration types included in the project: ¹	☒	☐	☐	☐

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

01	02	03
Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors ¹	Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors ¹	Calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors ¹
☒	☒	☒

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CERTIFICATE OF COMPLIANCE

Project Name: PYLUSD Golden ES RR Add

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F. ROOF ASSEMBLY SCHEDULE

Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Span Deck & Concrete/ Metal Panel Roofs

01	02	03	04	05
Total for all Roof Types:	1950	0.047	0.035	COMPLIES

G. RATED ROOFING MATERIAL (COOL ROOF)

This section does not apply to this project.

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in §140.3(a)/ §170.2(a) for new constructions, §141.0(a)/ §180.1 for additions and §141.0(b)1B/ §180.2 for alterations.

01	Indicate wall types included in the project: ¹	Framed	Mass (new only)	Concrete Sandwich Panel (new only)	SIPS	ICF (new only)
01	Indicate wall types included in the project: ¹	☒	☐	☐	☐	☐

FOOTNOTES: Wall types indicated above as "new only" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be checked above and compliance demonstrated within this table.

Framed Walls

01	02	03	04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location/ Fire Rating	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design	Net Area ft ²		
(A)Exterior Wall - E	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	2x6	19	0	U-factor	0.11	per JA4 per Software/ Other 0.074	257		
Exterior Wall - S	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	2x6	19	0	U-factor	0.095	per JA4 per Software/ Other 0.074	72		

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CERTIFICATE OF COMPLIANCE

Project Name: PYLUSD Golden ES RR Add

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Date Prepared: 3/30/2026

A. GENERAL INFORMATION

01 Project Location (city)	Placentia	05 # of Stories (Habitable Above Grade)	1
02 Zipcode	92870	06 Total Conditioned Floor Area (ft ²)	1950
03 Climate Zone	8	07 Total Unconditioned Floor Area (ft ²)	0
04 Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per § 100.0(f).		08 Project includes unconditioned enclosed space(s) > 5,000 ft ² under a roof with a ceiling height of at least 15 ft. ¹	☐
All Other Occupancies			

FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in §140.3(c)/ §170.2(b). Compliance with §140.3(c)/ §170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in §140.3/ §170.2 and §141.0(a)1/ §180.1 and §141.0(b)1 and 2/ §180.2 for additions and alterations.

My project consists of (check all that apply)				Component Types			
01				02			
☐ New Construction or Newly Conditioned Space	☐ One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft	☐ Roof	☐ Walls	☐ Floors	☐ Exterior Opaque Doors	☐ Fenestration/ Glazed Doors ¹	
☐ Addition of conditioned space	☐ One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft	☐ Roof	☐ Walls	☐ Floors	☐ Exterior Opaque Doors	☐ Fenestration/ Glazed Doors ¹	
☐ Addition is <=700 ft ²	☐ Addition is <=700 ft ²						
☒ Alteration of conditioned space	☒ One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☒ Roof Assembly	☒ Walls	☒ Floors	☒ Exterior Opaque Doors	☒ Fenestration	

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B. PROIECT SCOPE

FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration. Roof recoats and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft ²	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
Yes	Yes	Yes			Yes		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with unedited comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This table demonstrates compliance for prescriptive roof assembly requirements in §140.3(a)1B/ §170.2(a)1B for new construction, §141.0(a)/ §180.1 for additions, or §141.0(b)2B(b)/ §180.2 for alterations.

01	Indicate roof types included in the project: ¹	Framed	Framed-Multifamily	SIPS	Span Deck & Concrete	Metal Panels	Metal Building
01	Indicate roof types included in the project: ¹	☒	☐	☐	☐	☐	☐

Framed Roof Assemblies

01	02	03	04	05	06
Include Framed Roof Assemblies in Area-Weighted Average U-factor Calculation ¹					
☒					

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F. ROOF ASSEMBLY SCHEDULE

Framed Roof Assemblies

Tag/Plan Detail ID	Name/Description	Status	Exception to Roof Insulation Requirements in §141.0(b)2B(ii) (Alts. Only)	Occupancy Type
R-30 Roof No Attic	Roof	Altered		Nonresidential/ Relocatable 1 CZ
R-30 Roof No Attic	Roof	Altered		Nonresidential/ Relocatable 1 CZ

07	08	09	10	11	12	13	14	15	16
Tag/Plan Detail ID	How Design U-factor was determined	Roof Type & Frame Material	Frame Spacing Depth	Cavity Insulation per Design ²	Continuous Insulation per Design ²	Thermal Performance Unit	Required Thermal Performance ¹	U-factor per Design	Net Area ft ²
Roof	JA4 Tables	Wood		30	0	U-factor	0.047	per JA4 per Software/ Other 0.035	975
Roof	JA4 Tables	Wood		30	0	U-factor	0.047	per JA4 per Software/ Other 0.035	975

17 Location in Construction Documents Showing Air Barrier A-Sheets

FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

For alterations using U-factor as the Thermal Performance Unit, at least R-10 insulation must be above deck.

If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.

Roof area minus any fenestration/ skylight area

Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Span Deck & Concrete/ Metal Panel Roofs

01	02	03	04	05
Roof Type	Total Area of Roof Type (ft ²)	Area-weighted U-factor for Roof Type Required	Designed	Compliance Results Using Area-Weighted Calculation Option
Framed	1950	0.047	0.035	

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CERTIFICATE OF COMPLIANCE

Project Name: PYLUSD Golden ES RR Add

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Date Prepared: 3/30/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Nicholas Brown

Signature Date: 2026-03-30

CEA/NA/ECC Certification Identification (if applicable):

Phone:

Responsible Person Name: Misty DuPre

Responsible Person Scope: Salas O'Brien Engineers

Address: 3220 Executive Ridge, Ste 210

City/State/Zip: Vista CA 92081

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: Misty DuPre

Responsible Person Signature: [Signature]

Signature Date: 2026-03-30

License: M32811

Address: 3220 Executive Ridge, Ste 210

City/State/Zip: Vista CA 92081

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CERTIFICATE OF COMPLIANCE

Project Name: PYLUSD Golden ES RR Add

Report Page: NRCC-ENV-4 (Page 3 of 9)

Date Prepared: 3/30/2026

A. GENERAL INFORMATION

01 Project Location (city)	Placentia	05 # of Stories (Habitable Above Grade)	1
02 Zipcode	92870	06 Total Conditioned Floor Area (ft ²)	1950
03 Climate Zone	8	07 Total Unconditioned Floor Area (ft ²)	0
04 Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per § 100.0(f).		08 Project includes unconditioned enclosed space(s) > 5,000 ft ² under a roof with a ceiling height of at least 15 ft. ¹	☐
All Other Occupancies			

FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in §140.3(c)/ §170.2(b). Compliance with §140.3(c)/ §170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in §140.3/ §170.2 and §141.0(a)1/ §180.1 and §141.0(b)1 and 2/ §180.2 for additions and alterations.

My project consists of (check all that apply)				Component Types			
01				02			
☐ New Construction or Newly Conditioned Space	☐ One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft	☐ Roof	☐ Walls	☐ Floors	☐ Exterior Opaque Doors	☐ Fenestration/ Glazed Doors ¹	
☐ Addition of conditioned space	☐ One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft	☐ Roof	☐ Walls	☐ Floors	☐ Exterior Opaque Doors	☐ Fenestration/ Glazed Doors ¹	
☐ Addition is <=700 ft ²	☐ Addition is <=700 ft ²						
☒ Alteration of conditioned space	☒ One or more enclosed spaces > 5,000 ft ² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☒ Roof Assembly	☒ Walls	☒ Floors	☒ Exterior Opaque Doors	☒ Fenestration	

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B. PROIECT SCOPE

FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration. Roof recoats and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft ²	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
Yes	Yes	Yes			Yes		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with unedited comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This table demonstrates compliance for prescriptive roof assembly requirements in §140.3(a)1B/ §170.2(a)1B for new construction, §141.0(a)/ §180.1 for additions, or §141.0(b)2B(b)/ §180.2 for alterations.

01	Indicate roof types included in the project: ¹	Framed	Framed-Multifamily	SIPS	Span Deck & Concrete	Metal Panels	Metal Building
01	Indicate roof types included in the project: ¹	☒	☐	☐	☐	☐	☐

Framed Roof Assemblies

01	02	03	04	05	06
Include Framed Roof Assemblies in Area-Weighted Average U-factor Calculation ¹					
☒					

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CERTIFICATE OF COMPLIANCE

Project Name: PYLUSD Golden ES RR Add

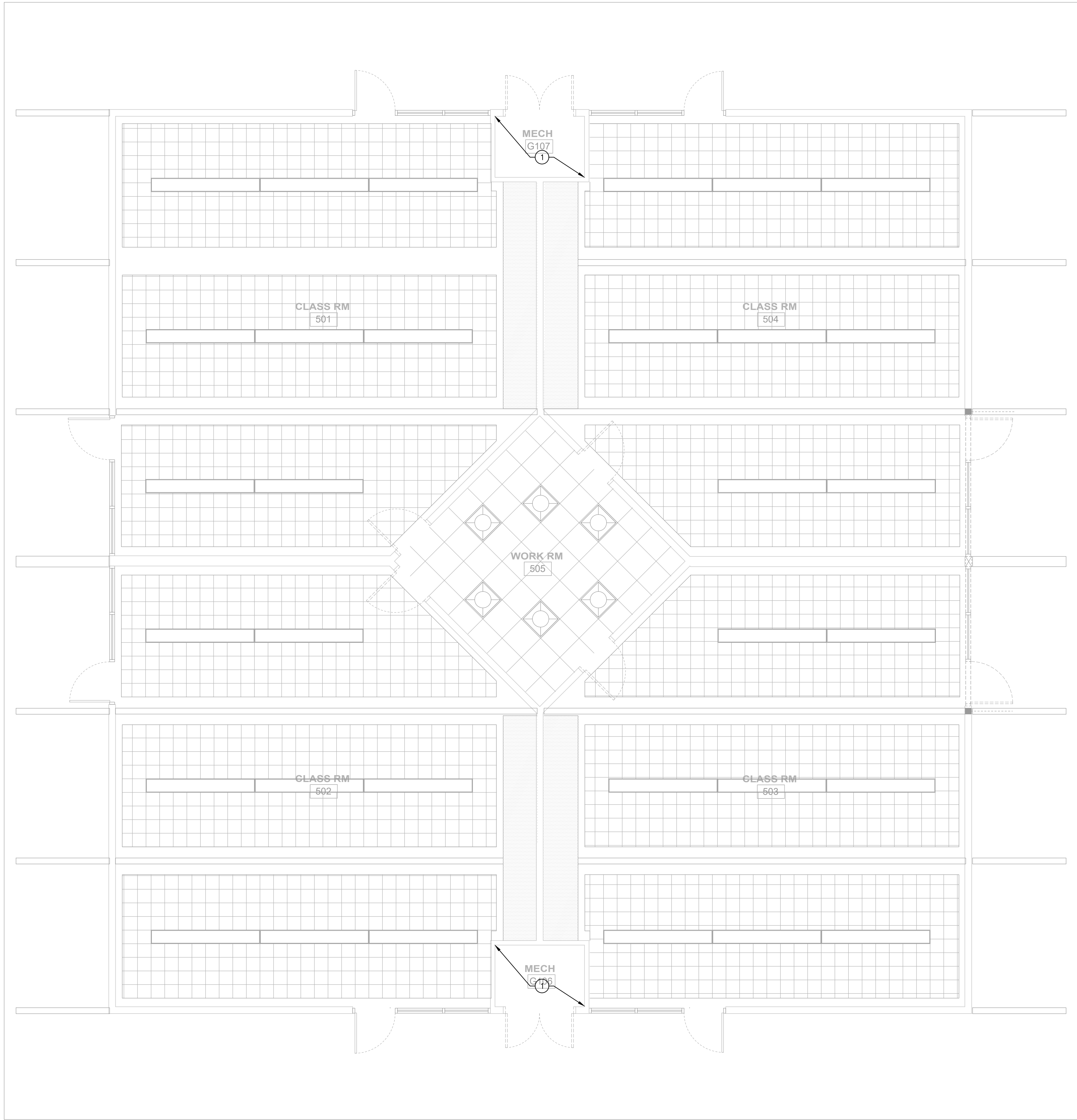
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F. ROOF ASSEMBLY SCHEDULE

Framed Roof Assemblies

Tag/Plan Detail ID	Name/Description	Status	Exception to Roof Insulation Requirements in §141.0(b)2B(ii) (Alts. Only)	Occupancy Type
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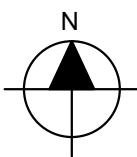


GENERAL NOTES

- A. CONTRACTOR MUST THOROUGHLY REVIEW ALL DISCIPLINES PLANS, VERIFY CONDITIONS AND COORDINATE WITH ALL OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. ALL EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

KEY NOTES

- ① EXISTING MECHANICAL UNITS, DUCTWORK AND ACCESSORIES TO REMAIN.



MECHANICAL DEMOLITION FLOOR PLAN

1/4" = 1'-0"

1

DSA STAMP

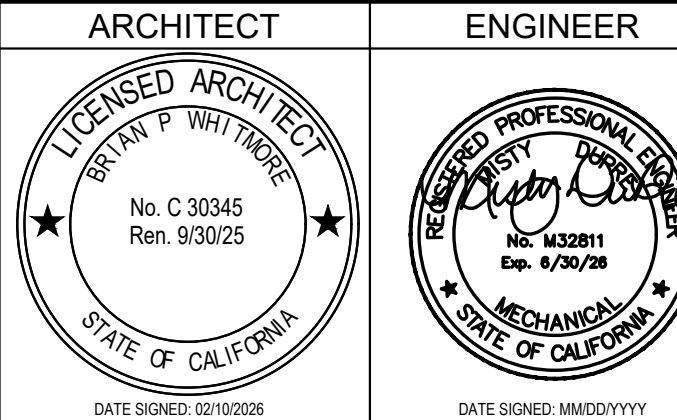


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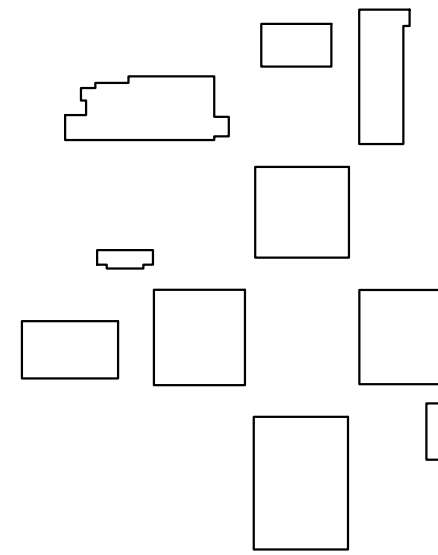
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REVISION HISTORY	NO.	REMARKS	DATE

DRAWING STATUS	DATE	
	☒ DSA PLAN CHECK	04/09/2026
	☐ DSA BACK CHECK	
	☐ BIDDING	
	☐ CONSTRUCTION	



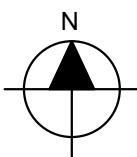
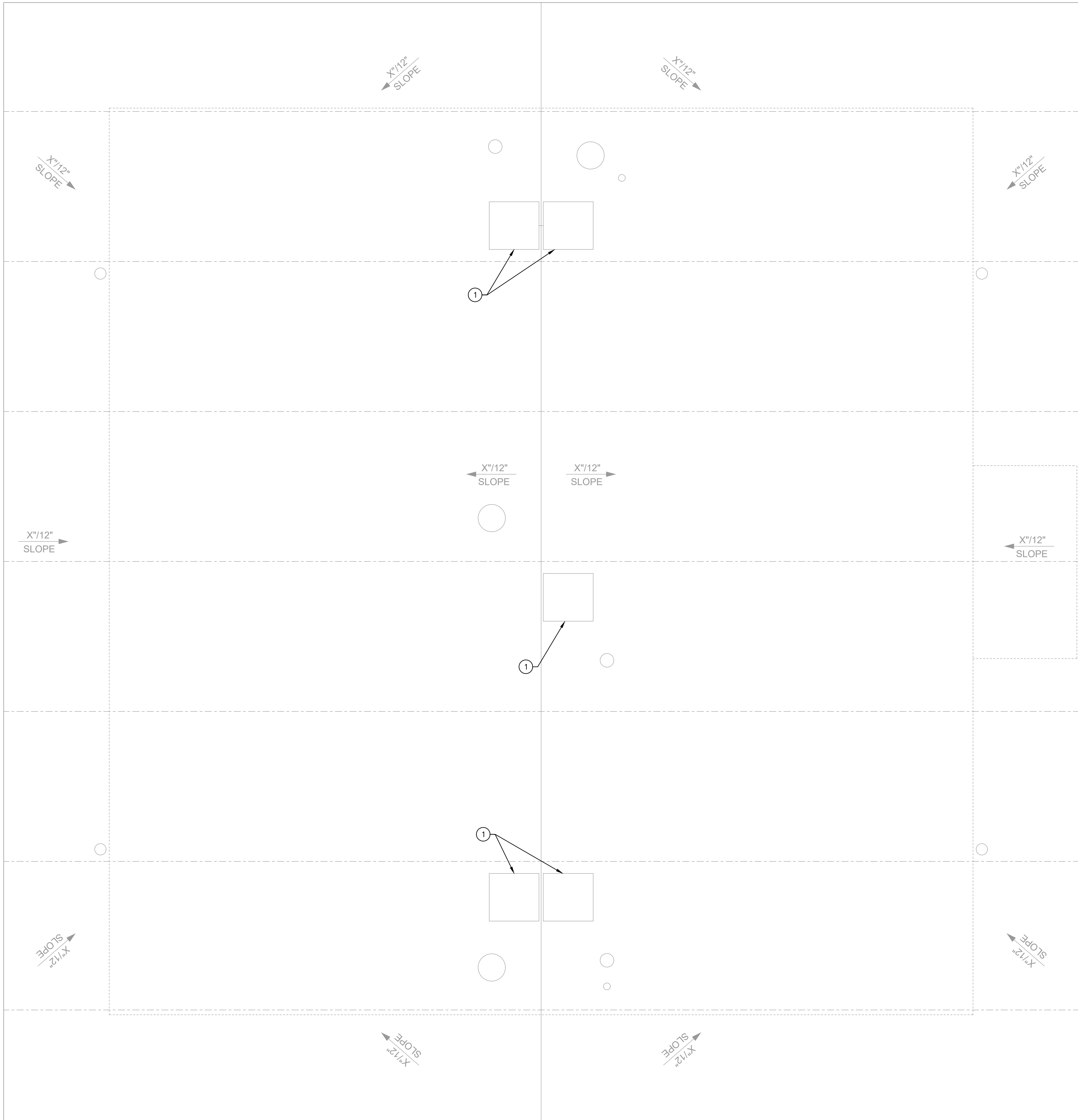
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740 GOLDEN AVE, PLACENTIA, CA
92870

MECHANICAL
DEMOLITION
FLOOR PLAN

Date	04/09/2026	Project Number	25060
Application Number	04-125322	Drawing Number	M2.01
Drawn	SO	Checked	SO



GENERAL NOTES

- A. CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS, DETERMINING EXTENT OF DEMOLITION, AND COORDINATE WITH ALL OTHER TRADES, IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, WHICH ARE TO REMAIN, MUST BE CLEANED AND REFURBISHED TO ORIGINAL WORKING CONDITION.
- C. ALL WORK TO BE DEMOLISHED OR REMOVED MUST NOT BE RE-INSTALLED UNLESS NOTED OTHERWISE.

KEY NOTES

- ① EXISTING MECHANICAL UNITS AND ASSOCIATED ACCESSORIES TO REMAIN.

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424 32nd St Suite D/E,
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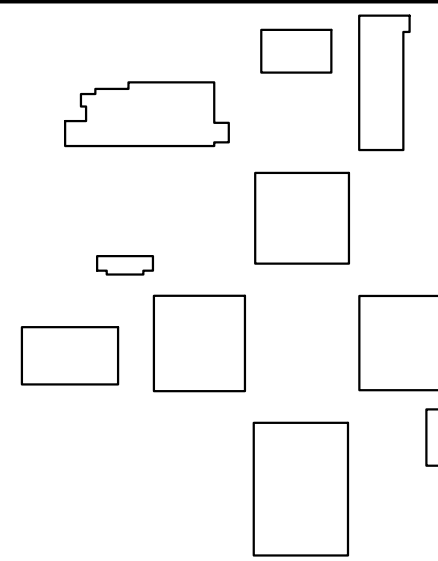
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ARCHITECT	ENGINEER
DATE SIGNED: 05/14/2026	DATE SIGNED: 05/07/2026

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MECHANICAL
DEMOLITION
ROOF PLAN

Date
04/09/2026

Project Number
25060

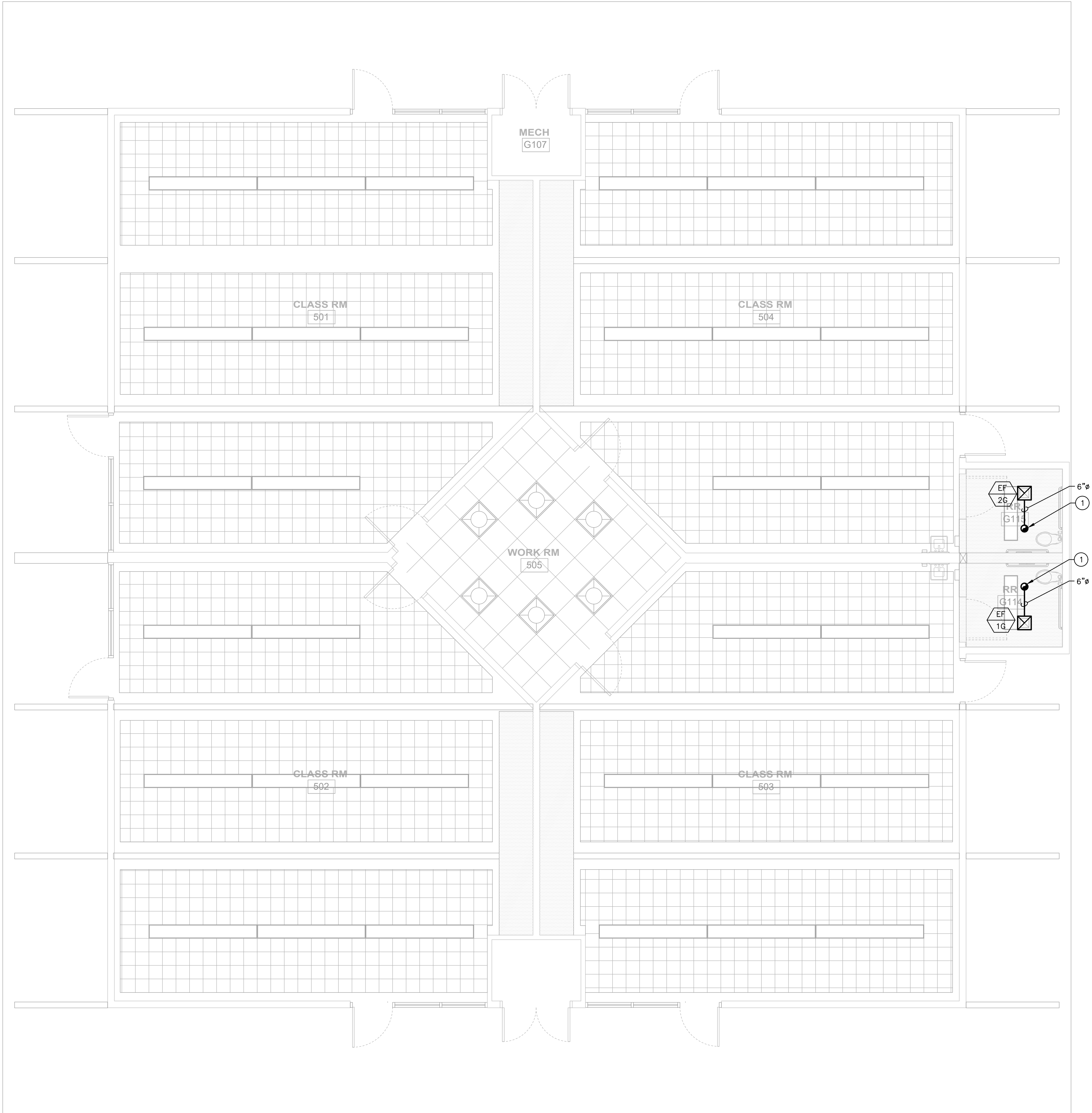
Application Number
04-125322

Drawing Number

Drawn
SO

Checked
SO

M2.02

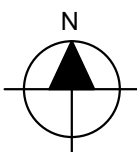


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- B. ALL EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- C. SEE DETAIL 4/M5.1 FOR DUCT SUPPORTS.

KEY NOTES

- ① EXHAUST AIR DUCT UP THRU ROOF TO ROOF CAP. SEE DETAIL 2/M5.1.



MECHANICAL FLOOR PLAN

1/4" = 1'-0"

1

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Studio W Architects
424 32nd St Suite D/E,
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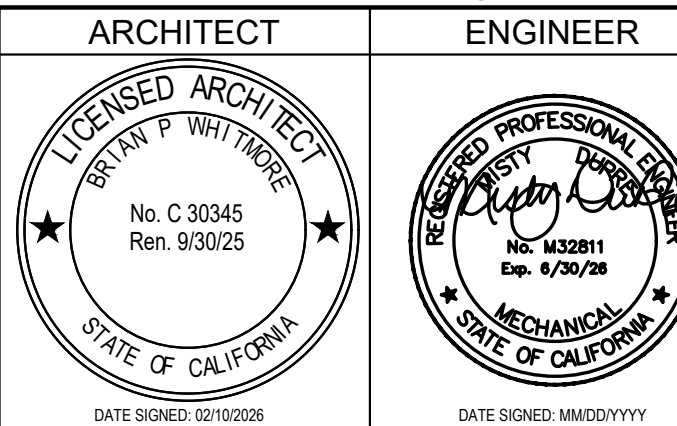
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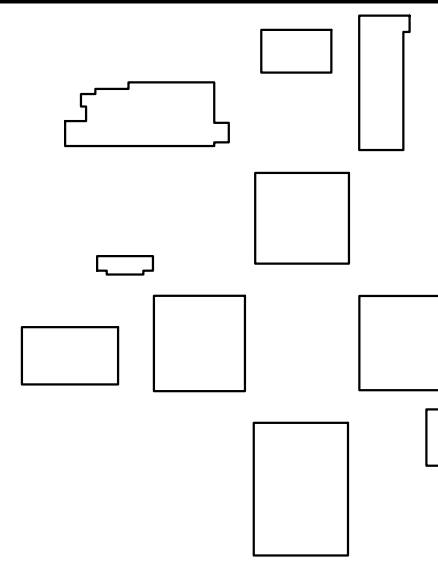
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MECHANICAL
FLOOR PLAN

Date

04/09/2026

Project Number

25060

Application Number

04-125322

Drawing Number

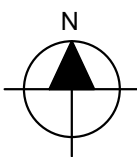
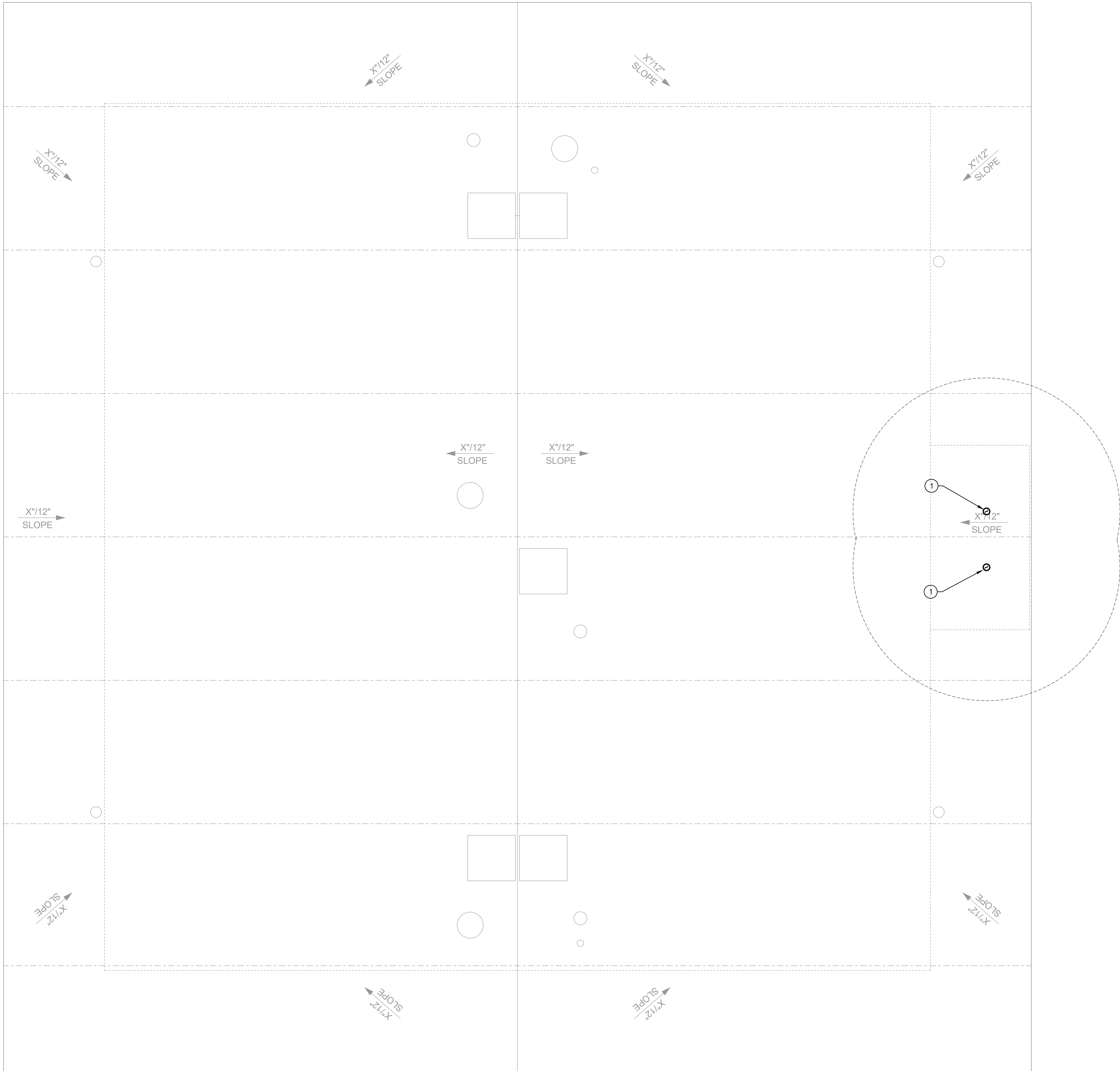
M2.1

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SO

Checked

SO



MECHANICAL ROOF PLAN

1/4" = 1'-0"

1

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- B. ALL EQUIPMENT, DUCTWORK AND AIR DISTRIBUTION DEVICES, MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

KEY NOTES

- ① ROOF CAP. SEE DETAIL 2/M5.1. MAINTAIN MIN. 10'-0" CLEARANCE FROM OUTSIDE AIR INTAKES.

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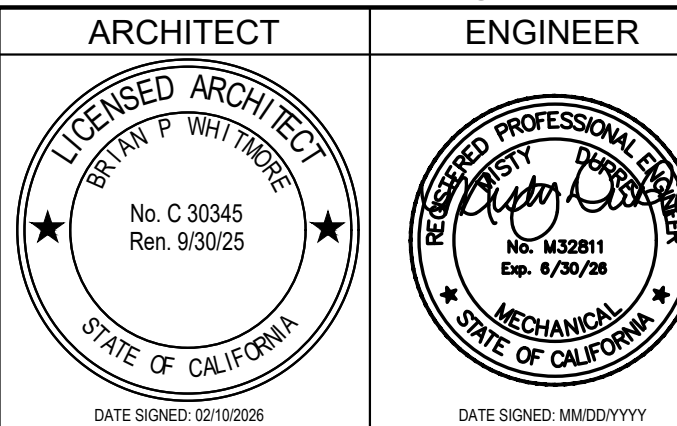
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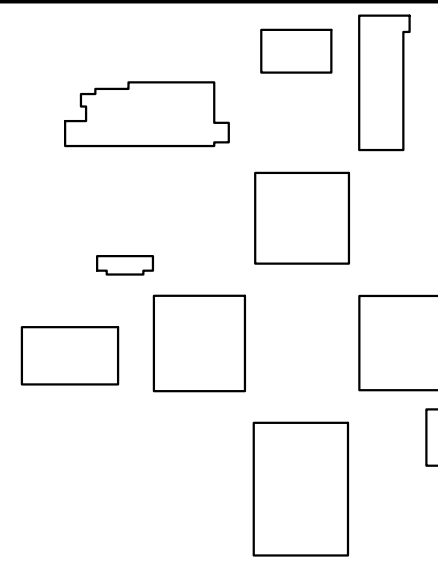
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MECHANICAL
ROOF PLAN

Date

04/09/2026

Application Number

04-125322

Drawn

SO

Checked

SO

Project Number

25060

Drawing Number

M2.2

PRINT DATE: 1/13/2026 8:31:40 AM
FILE PATH: Autocad Doss\25060 PLUSD Golden Elementary TK-PK\25060-PLUSD Golden ES TK-PK.rvt

						FOLD STRAP FOR DOUBLE THICKNESS ROOF BEAM G.I. STRAP DUCT HANGER, SEE SCHEDULE BELOW BLOCKING AT HANGER MAX. SECURE DUCT HANGER TO JOIST w/(1)3/8" LAG SCREW w/_ MIN. PENETRATION #10 S.M.S. MIN. (2)EA. HANGER. NOTE: PRE-DRILL ALL BEAMS & JOISTS AS REQUIRED. <table><tr><td>MAX. ROUND DUCT HANGER</td><td>MAX. LOAD EACH HANGER</td><td>MAX. HANGER SPACING</td><td>HANGER SIZE</td></tr><tr><td>UP TO 9"ø</td><td>24#</td><td>6'-0"</td><td>1-1/2"x18GA</td></tr><tr><td>9" TO 26"</td><td>96#</td><td>6'-0"</td><td>1-1/2"x18GA</td></tr></table> FOLD STRAP FOR DOUBLE THICKNESS ROOF BEAM G.I. STRAP DUCT HANGER, SEE SCHEDULE BELOW BLOCKING AT HANGER MAX. SECURE DUCT HANGER TO JOIST w/(1)3/8" LAG SCREW w/_ MIN. PENETRATION #10 S.M.S. MIN. (2)EA. HANGER NOTE: PRE-DRILL ALL BEAMS & JOISTS AS REQUIRED. <table><tr><td>MAX. RECT. OR SQ. DUCT DIM.</td><td>MAX. LOAD EACH HANGER</td><td>MAX. HANGER SPACING</td><td>HANGER SIZE</td></tr><tr><td>UP TO 16"</td><td>72#</td><td>6'-0"</td><td>1-1/2"x18GA</td></tr><tr><td>16" TO 36"</td><td>96#</td><td>6'-0"</td><td>1-1/2"x18GA</td></tr></table>			MAX. ROUND DUCT HANGER	MAX. LOAD EACH HANGER	MAX. HANGER SPACING	HANGER SIZE	UP TO 9"ø	24#	6'-0"	1-1/2"x18GA	9" TO 26"	96#	6'-0"	1-1/2"x18GA	MAX. RECT. OR SQ. DUCT DIM.	MAX. LOAD EACH HANGER	MAX. HANGER SPACING	HANGER SIZE	UP TO 16"	72#	6'-0"	1-1/2"x18GA	16" TO 36"	96#	6'-0"	1-1/2"x18GA	120V/1PH/60Hz DISCONNECT EXHAUST FAN LIGHT SWITCH NOTE: CONTRACTOR MUST PROVIDE ALL CONTROL WIRING INSIDE CONDUIT AND ALL OTHER ACCESSORIES REQUIRED FOR PROPER OPERATION OF SYSTEM AS RECOMMENDED BY MANUFACTURER. ----- WIRING PROVIDED AND INSTALLED BY DIVISION 26 ===== WIRING PROVIDED AND INSTALLED BY DIVISION 23		
MAX. ROUND DUCT HANGER	MAX. LOAD EACH HANGER	MAX. HANGER SPACING	HANGER SIZE																																
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NOT USED	SCALE NONE	10	NOT USED	SCALE NONE	7	DUCT SUPPORT DETAILS	SCALE NONE	4	EXHAUST FAN CONTROL DIAGRAM	SCALE NONE	1																								
						1 2 3 4 5 6 7 1 2 3 4 5 6 7 1 SECURE w/#10 S.M.S. (2)EACH SIDE. 2 COUNTER FLASHING. 3 ROOF CAP. 4 WATER PROOF SEALANT ALL AROUND. 5 ROOFING AS PER ARCH. DRAWING'S. 6 ROOF STRUCTURE. 7 EXHAUST DUCT THROUGH ROOF.																													
NOT USED	SCALE NONE	11	NOT USED	SCALE NONE	8	NOT USED	SCALE NONE	5	ROOF CAP DETAIL	SCALE NONE	2																								
						1/4"ø ANCHOR BOLT (TYP.) ANCHOR BOLT (TYP.) STRUCTURE 3/8" THREADED ROD 1/8" PLASTIC COATED STEEL AIRCRAFT CABLE SWAY BRACING. SET OF 3 PER EF SPACED AT 120" APART MASON TYPE HD NEOPRENE HANGER. MIN. DEFLECTION 0.2" (TYP.4) EA DUCT FLEXIBLE CONNECTION TRANSITION CEILING (SEE ARCHITECTURAL) 45° TYP. PLAN 45° ANGLE CLIP (TYP.3) (2) MACHINE BOLTS PER CLIP																													
NOT USED	SCALE NONE	12	NOT USED	SCALE NONE	9	NOT USED	SCALE NONE	6	CEILING MOUNTED EXHAUST FAN DETAIL	SCALE NONE	3																								

DSA STAMP

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Newport Beach, CA 92663
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ARCHITECT

ENGINEER

1

2

3

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NO.	REMARKS	DATE

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DATE 04/09/2026

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DSA PLAN CHECK

DSA BACK CHECK

BIDDING

CONSTRUCTION

PLACENTIA-YORBA LINDA UNIFIED SCHOOL DISTRICT

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GOLDEN ELEMENTARY SCHOOL
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MECHANICAL DETAILS

Date 04/09/2026
Application Number 04-125322
Drawn SO
Checked SO

Project Number 25060
Drawing Number
M5.1

PLUMBING LEGEND					
SYMBOL	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	
	S	SEWER PIPE	ABV	ABOVE	
	OW	OILY WASTE PIPE	A/C	ABOVE CEILING	
	GW	GREASE WASTE PIPE	AGA	AMERICAN GAS ASSOCIATION	
	PW	PUMPED (FORCED) WASTE PIPE	ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	
	IW	INDIRECT WASTE PIPE	ASME	AMERICAN SOCIETY FOR MECHANICAL ENGINEERS	
	V	VENT PIPE	ASSE	AMERICAN SOCIETY FOR SANITARY ENGINEERS	
	CW	COLD WATER PIPE	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	
	ICW	INDUSTRIAL COLD WATER PIPE	ADA	AMERICANS WITH DISABILITIES ACT	
	SCW	SOFT COLD WATER PIPE	AFF	ABOVE FINISHED FLOOR	
	HW	HOT WATER PIPE	AFS	ABOVE FINISHED GRADE	
	IHW	INDUSTRIAL HOT WATER PIPE	A/G	ABOVE GRADE	
	HWR	HOT WATER RETURN PIPE	AP	ACCESS PANEL	
	140	140°F HOT WATER PIPE	ARCH	ARCHITECT OR ARCHITECTURAL	
	R	RECLAIMED WATER PIPE	BT	BATH TUB	
	G	LOW PRESSURE NATURAL GAS PIPE	BEL	BELOW	
	MPG	MEDIUM PRESSURE NATURAL GAS PIPE	B/F	BELOW FLOOR	
	HPG	HIGH PRESSURE NATURAL GAS PIPE	B/G	BELOW GRADE	
	LPG	LIQUEFIED PETROLEUM GAS PIPE	BOP	BOTTOM OF PIPE	
	CD	CONDENSATE DRAIN PIPE	B/S	BELOW SLAB	
	SCD	SECONDARY CONDENSATE DRAIN PIPE	BTU	BRITISH THERMAL UNIT	
	PCD	PUMPED CONDENSATE DRAIN PIPE	CBC	CALIFORNIA BUILDING CODE	
	RD	ROOF DRAIN PIPE	CEC	CALIFORNIA ELECTRICAL CODE	
	ORD	OVERFLOW ROOF DRAIN PIPE	CFC	CALIFORNIA FIRE CODE	
	CA	COMPRESSED AIR PIPE	CMC	CALIFORNIA MECHANICAL CODE	
	FCO	FLOOR CLEAN OUT	CPC	CALIFORNIA PLUMBING CODE	
	GCO	GRADE CLEAN OUT	CI	CAST IRON	
	WCO	WALL CLEAN OUT	CISPI	CAST IRON SOIL PIPE INSTITUTE	
	FC	FLEXIBLE CONNECTION	CLG	CEILING	
	SOV	SHUT OFF VALVE	CP	CIRCULATION PUMP	
	GC	GAS COCK	CL	CLARIFIER	
	CV	CHECK VALVE	CLC	CLEAR	
	BV	BALL VALVE	CONC	CONCRETE	
	PRV	PRESSURE REDUCING VALVE	CONN	CONNECT OR CONNECTION	
	BLV	BALANCING VALVE	CONTR	CONTRACTOR	
	PTR	PRESSURE AND TEMPERATURE RELIEF VALVE	CFM	CUBIC FEET PER MINUTE	
	U	UNION	C	DEGREES CELSIUS	
		CAPPED PIPE	F	DEGREES FAHRENHEIT	
	CONT	CONTINUED OR CONTINUATION	DIV	DIVISION	
	TP	TRAP PRIMER LINE	DWG(S)	DRAWING(S)	
	WHA	WATER HAMMER ARRESTOR	EA	EXISTING	
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER	ELEC	ELECTRICAL	
	HB	HOSE BIBB	ELEV	ELEVATION	
		PIPE DOWN OR DROP	ET	EXPANSION TANK	
		PIPE UP OR RISE	FF	FEET PER MINUTE	
		VALVE ON DROP	FT	FEET OR FOOT	
		VALVE ON RISE	FU	FIXTURE UNIT	
	T	THERMOMETER	FOG	FOAM, OIL, AND GREASE	
	AS	AQUASTAT	GA	GAUGE	
	P.O.D.	POINT OF DISCONNECT	GALV	GALVANIZED	
	POC	POINT OF CONNECTION	G	GALLONS PER CYCLE	
	AD, FD	AREA DRAIN OR FLOOR DRAIN	GF	GALLONS PER FLUSH	
	FS, RR	FLOOR SINK OR ROOF RECEPTOR	GPH	GALLONS PER HOUR	
	VTR	VENT THROUGH ROOF	GPM	GALLONS PER MINUTE	
	DEMO	DEMOLITION OR DEMOLISH	GD	GARBAGE DISPOSAL	
	RELO	RELOCATE	HD	HEAD	
	CIRC PUMP	CIRCULATING PUMP	GI	GREASE INTERCEPTOR	
	DIA, DIAM	DIAMETER	HR	HEADER	
			IM	ICE MAKER SUPPLY BOX	
			IES	ILLUMINATING ENGINEERS SOCIETY	
			IND	INDIRECT	
			IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBERS AND MECHANICAL OFFICIALS	
			IBC	INTERNATIONAL BUILDING CODE	
			IMC	INTERNATIONAL MECHANICAL CODE	
			IPC	INTERNATIONAL PLUMBING CODE	
			INVT	INVERT ELEVATION	
			KEC	KITCHEN EQUIPMENT CONTRACTOR	
			K	KILOGRAMS	
			KPO	KILOPASCALS	
			KS	KITCHEN SINK	
			LS	LAUNDRY SINK	
			L, LAV	LAVATORY	
			L/S	LITERS PER SECOND	
			MH	MANHOLE	
			MFR	MANUFACTURER	
			MSS	MANUFACTURERS STANDARDIZATION SOCIETY	
			MAX	MAXIMUM	
			MECH	MECHANICAL	
			MSA	MEDIUM PRESSURE GAS METER SET ASSEMBLY	
			MIL	MIL	
			mm	MILLIMETER	
			MIN	MINIMUM	
			MS	MOP SINK	
			MTD	MOUNTED	
			NPSF	NATIONAL SANITATION FOUNDATION	
			NET	NET POSITIVE SUCTION HEAD	
			NOM	NOMINAL	
			NIC	NOT IN CONTRACT	
			NTS	NOT TO SCALE	
			NO	NUMBER	
			PLBG	PLUMBING	
			PDI	PLUMBING AND DRAINAGE INSTITUTE	
			PE	POLYETHYLENE	
			LBS	POUNDS	
			PSIG	POUNDS PER SQUARE INCH GAUGE	
			PD	PRESSURE DROP	
			QTY	QUANTITY	
			REQ'D	REQUIRED	
			RI	ROUGH-IN	
			SCH	SCHEDULE	
			SH	SHOWER	
			SOV	SHUT-OFF VALVE	
			SPEC	SPECIFICATION	
			SF	SQUARE FEET	
			SS	STAINLESS STEEL	
			STRUC	STRUCTURAL	
			TEMP	TEMPERATURE	
			THU	THOUSANDS OF BRITISH THERMAL UNITS PER HOUR	
			TDH	TOTAL DEVELOPED HEAD	
			TDL	TOTAL DEVELOPED LENGTH	
			TEL	TOTAL EQUIVALENT LENGTH	
			TYP	TYPICAL	
			UNO	UNLESS NOTED OTHERWISE	
			UNO	UNDERWRITERS LABORATORIES	
			USC	UNIFORM BUILDING CODE	
			UMC	UNIFORM MECHANICAL CODE	
			UPC	UNIFORM PLUMBING CODE	
			UR	URINAL	
			VCP	VITRIFIED CLAY PIPE	
			V/PH/Hz	VOLTS/PHASE/HERTZ	
			WB, Wsb	WASHING MACHINE SUPPLY BOX	
			WC	WATER CLOSET	
			WHA	WATER HAMMER ARRESTOR	
			WH	WATER HEATER	
			YB	YARD BOX	

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- THESE DOCUMENTS MAY NOT BE USED FOR ANY REPRODUCTION, BIDDING, OR CONSTRUCTION UNLESS AUTHORIZED IN WRITING, BY SALAS O'BRIEN AND THE ENGINEER OF RECORD RESPONSIBLE FOR THEIR PREPARATION.
- CONTRACTOR MUST FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITY PIPES PRIOR TO START OF WORK. NECESSARY ADJUSTMENTS TO THE PLUMBING LAYOUT MUST BE DONE AT NO EXTRA COST.
- CONTRACTOR MUST NOTIFY ALL LOCAL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE GAS COMPANY, ELECTRIC COMPANY, TELEPHONE COMPANY, AND THE WATER DEPARTMENT, ABOUT THE EXTENT OF PLUMBING WORK. ALL EXCAVATION WORK MUST BE APPROVED BY ALL UTILITY COMPANIES TO ASSURE PREVENTION OF INTERRUPTION OF EXISTING SERVICES PRIOR TO START OF WORK.
- ALL PLUMBING WORK MUST MEET OR EXCEED THE REQUIREMENTS OF THE CALIFORNIA PLUMBING CODE, CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, AMERICANS WITH DISABILITIES ACT (ADA), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), THE LOCAL CITY AND COUNTY CODES, AND ALL OTHER CODES HAVING JURISDICTION. IN CASE OF CONFLICT, THE MORE STRICT REGULATIONS MUST GOVERN.
- ALL PLUMBING WORK MUST BE COORDINATED WITH THE WORKS OF OTHER TRADES PRIOR TO START OF WORK. NECESSARY ADJUSTMENTS MUST BE MADE AT NO EXTRA COST.
- FOR MINIMUM PIPE SIZE CONNECTIONS TO EACH PLUMBING FIXTURE SEE PLUMBING FIXTURE SCHEDULE. THESE VALUES ARE MINIMUM; LARGER CONNECTIONS MAY RESULT BASED ON THE DIFFERENT MANUFACTURER'S RECOMMENDATIONS.
- MANUFACTURER'S NAMES AND MODEL NUMBERS SHOWN FOR PLUMBING FIXTURES AND EQUIPMENT ARE FOR REFERENCE ONLY. OTHER MANUFACTURERS WHICH CAN MEET THE DESIGN REQUIREMENTS OF THE PLUMBING SYSTEM MAY BE SUBSTITUTED UPON APPROVAL FROM THE ARCHITECT AND THE OWNER.
- PROVIDE DIELECTRIC FITTINGS FOR DISSIMILAR METALS IN CONTACT.
- PROVIDE HANGERS AND SUPPORTS FOR PIPING IN ACCORDANCE WITH THE RECOMMENDATIONS OF MSS SP-69-2003.
- PROVIDE VALVES AT THE FOLLOWING LOCATIONS:
 - WATER MAIN SHUT-OFF VALVE IN VALVE BOX.
 - VALVE WITH HOSE CONNECTION ON DOWNSTREAM SIDE OF THE MAIN SHUT-OFF VALVE.
 - SHUT-OFF VALVE ON EACH SUPPLY TO EACH FIXTURE AND EQUIPMENT ITEM NOT PROVIDED WITH CONTROL STOP OR OTHER AUXILIARY SHUT-OFF VALVE. INSTALL SHUT-OFF VALVES SO THAT STEMS EITHER ARE VERTICAL WITH HANDWHEELS OR OPERATORS ON TOP OR ARE HORIZONTAL AND SO THAT VALVES ARE EASILY ACCESSIBLE FOR OPERATION, SERVICE, REMOVAL AND REPLACEMENT.
- PROVIDE SLEEVES FOR ALL PIPE AND TUBING PASSING THROUGH FLOORS, ROOFS, AND WALLS. PACK CAULK INTO THE SPACE AROUND THE PIPE OR TUBING. PROVIDE FLASHING FOR ALL PIPES EXTENDING THROUGH THE ROOF.
- ALL VENT TERMINATIONS AT ROOF MUST BE AT LEAST 10 FEET AWAY FROM OUTSIDE AIR INTAKES, OPERABLE WINDOWS, AND BUILDING OPENINGS.
- FILL CRACKS BETWEEN FIXTURES AND WALL/FLOORS WITH SILICONE RUBBER SEALANT.
- LOCATE, SIZE, AND INSTALL WATER HAMMER ARRESTERS IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD NO. WH-201.
- INSTALL FIXTURES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES. SECURE FLOOR OUTLET OF FLOOR-MOUNTED FIXTURES TO DRAINAGE CONNECTIONS AND FLOOR IN A RIGID MANNER. RIGIDLY SUPPORT WALL-HUNG FIXTURES BY MEANS OF METAL SUPPORTING MEMBERS. USE CHROMIUM-PLATED BRASS BOLTS, NUTS, AND WASHERS WHERE EXPOSED. ALL CONNECTIONS MUST BE MADE GAS-TIGHT AND WATER-TIGHT. USE OF PUTTY AND PLASTICS FOR GASKETS WILL NOT BE PERMITTED.
- PROVIDE ALL FIXTURE COMPONENTS AS INDICATED ON DRAWINGS. PROVIDE ADDITIONAL COMPONENTS AS PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER OPERATION OF THE FIXTURES.
- PROVIDE EACH PLUMBING FIXTURE (INCLUDING HOSE BIBBS) WITH AN INDIVIDUAL STOP OR COMPRESSION VALVE OF POLISHED CHROME-PLATED LOOSE KEY TYPE.
- WHERE DEPTHS OR INVERTS ELEVATIONS ARE NOT INDICATED, PROVIDE MINIMUM COVERAGE (ABOVE TOP OF PIPES) AS FOLLOWS:
 - ANY PIPING UNDER SLAB (TOP OF PIPE TO UNDERSIDE OF SLAB): 18 INCHES.
 - CAST IRON AND COPPER PIPES IN OTHER LOCATIONS: 18 INCHES.
 - EXCAVATE TO UNDISTURBED EARTH: CUT LEVEL AND FORM TRUE. REMOVE DEBRIS, RUBBISH AND SOFT MATERIAL (SUCH AS MUD). WHERE ROCK IS ENCOUNTERED, UNDERCUT TRENCHES 6-INCHES AND FILL WITH WELL TAMPED NEUTRAL SAND AND PEA GRAVEL TO PROPER PIPE ELEVATION. DURING EXCAVATION FREE OF STANDING WATER. UNDERCUT TRENCH 6-INCHES AND INSTALL PIPING IN A 6-INCH NEUTRAL SAND ENVELOPE.
- BACKFILL TO A POINT 12-INCHES ABOVE TOP OF PIPING WITH EARTH (EXCAVATED MATERIAL MAY BE USED) FREE OF CLAY, DEBRIS, RUBBISH, ROCKS, OR CLOUDS OVER 4-INCHES IN THE GREATEST DIMENSION. BACKFILL ABOVE 12-INCHES FROM TOP OF PIPING MAY BE WITH EXCAVATED MATERIAL. APPLY BACKFILL BY HAND IN 6-INCH DEEP LAYERS THE FULL WIDTH OF THE TRENCH. MOIST DO NOT LAYER (DO NOT FLOOD OR FIDDLE), AND HAND TAMP TO A MINIMUM 90 PERCENT COMPACTION BEFORE PROCEEDING WITH THE NEXT LAYER OF BACKFILL.
- DO NOT EXCAVATE UNDER FOUNDATIONS OR FOOTINGS EXCEPT IN MANNER PERMITTED BY THE ARCHITECT. DO NOT BACKFILL UNTIL INSTALLED PIPING HAS BEEN SUCCESSFULLY TESTED.
- VERIFICATION OF WATER AGENCY APPROVAL MUST BE SUBMITTED TO THE BUILDING AND SAFETY DIVISION PRIOR TO ISSUANCE OF A PLUMBING PERMIT FOR THIS PROJECT.
- ALL PENETRATIONS THRU FIRE RATED ASSEMBLIES MUST BE PACKED WITH APPROVED FIRE PROOFING. FOR LOCATIONS OF FIRE RATED ASSEMBLIES, SEE ARCHITECTURAL PLANS.
- ROUTE ALL PIPES AS HIGH AS POSSIBLE IN EXPOSED LOCATIONS. COORDINATE ROUTING WITH ALL OTHER TRADES PRIOR TO START OF WORK.
- NO SPRAY FOAM INSULATION MUST BE APPLIED TO AREAS CONTAINING PEX PIPING.

PLUMBING DEMOLITION NOTES

- COORDINATE THE DEMOLITION REQUIREMENTS WITH THE ARCHITECTURAL DRAWINGS, OWNER'S REPRESENTATIVE AND WITH OTHER TRADES PRIOR TO WORK.
- CAP UNUSED WATER AND GAS PIPING ABOVE CEILINGS, IN WALLS AND BELOW FLOORS AS REQUIRED. PROVIDE SHUT-OFF VALVES UPSTREAM OF CAPS. DEAD-LEG PIPING MUST BE REMOVED TO WITHIN 6" OF THE MAIN SUPPLY PIPING. OTHERWISE PROVIDE A MEANS OF FLUSHING COLD-WATER DEAD-LEG PIPING AS REQUIRED BY SECTION 309.6 OF THE C.F.C. MATERIALS USED FOR PIPE CAPS AND SHUT-OFF VALVES MUST MATCH THE EXISTING MATERIALS.
- CAP UNUSED HOT WATER AND HOT WATER RETURN PIPING ABOVE CEILINGS, IN WALLS AND BELOW FLOORS AS REQUIRED. PROVIDE SHUT-OFF VALVES UPSTREAM OF CAPS. HOT WATER DEAD-LEGS SHALL NOT BE PERMITTED AND MUST BE CAPPED AT THE MAIN HOT WATER SUPPLY PIPING. MATERIALS USED FOR PIPE CAPS AND SHUT-OFF VALVES MUST MATCH THE EXISTING MATERIALS.
- CAP UNUSED SEWER AND VENT PIPING ABOVE CEILINGS, IN WALLS AND BELOW FLOORS AS REQUIRED. MATERIALS USED FOR PIPE CAPS MUST MATCH THE EXISTING MATERIALS.
- CAPPED PIPE SIZES AND LOCATIONS MUST BE SHOWN ON THE CONTRACTOR'S FINAL AS-BUILT DRAWINGS.
- PLUMBING ITEMS REMOVED MUST BE MADE AVAILABLE TO THE OWNER. ITEMS NOT RETAINED BY THE OWNER MUST BE DISPOSED OF IN THE PROPER MANNER.

EXISTING PLUMBING SEWER LINES

- INSPECT THE EXISTING SEWER/WASTE LINES PRIOR TO WORK. PROVIDE VIDEO INSPECTION OF THE EXISTING BELOW GRADE SEWER/WASTE LINES TO ENSURE LINES ARE IN GOOD WORKING CONDITION, ARE FREE FROM SAGS, BLOCKAGES, CRACKS OR BREAKS. PROVIDE OWNER'S REPRESENTATIVE WITH A FULL REPORT OF PIPING CONDITION AND PROVIDE AN AS-BUILT DRAWING WITH LOCATIONS, ROUTING AND INVERTS OF THE EXISTING SEWER/WASTE PIPING. ALSO SHOW THE LOCATIONS OF CLEAN-OUTS.
- VERIFY NEW SEWER/WASTE PIPING P.O.C. WILL HAVE THE ADEQUATE SLOPE WHEN ROUTING TO THE CONNECTION POINT TO THE EXISTING SEWER/WASTE PIPING (MINIMUM OF 2% SLOPE). REPORT TO THE OWNER'S REPRESENTATIVE AREAS WHERE THE NEW SEWER/WASTE PIPING (2% SLOPE) CANNOT BE ACHIEVED.
- SNAKE AND HYDRO-FLUSH THE EXISTING AND NEW SEWER/WASTE LINES IN THE AREAS OF WORK AFTER INSTALLATION AND PRIOR TO OCCUPANCY AND AT COMPLETION OF WORK.
- TEST THE NEW AND EXISTING SEWER/WASTE LINES ASSOCIATED WITH THE PROJECT PRIOR TO TENANT OCCUPANCY AND AT COMPLETION OF WORK. PROVIDE WRITTEN NOTIFICATION TO OWNER'S REPRESENTATIVE THAT SYSTEMS ARE DRAINING/OPERATING PROPERLY.

PLUMBING MANDATORY MEASURES

- ALL PLUMBING SYSTEM COMPONENTS MUST MEET OR EXCEED THE REQUIREMENTS OF CURRENT CBC, CMC, CPC, NEC, NFPA, ASTM, ANSI, AND ALL LOCAL AND STATE CODE REQUIREMENTS. (SEE BELOW)
- ALL PLUMBING EQUIPMENT LISTED IN OF THE 2022 CALIFORNIA CODE OF REGULATIONS (CCR), TITLE-24, PART 6, SECTION 110.3 ENERGY EFFICIENCY STANDARDS MUST BE CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED SPECIFICATIONS OR EFFICIENCIES ADOPTED BY THE CEC.
- ALL HEATERS FOR DOMESTIC HOT WATER MUST BE CERTIFIED BY THE MANUFACTURER TO MEET THE SPECIFICATIONS OR EFFICIENCIES AS ADOPTED BY THE CEC IN ACCORDANCE WITH THE 2022 CALIFORNIA CODE OF REGULATIONS (CCR), TITLE-24, PART 6, SECTION 110.3 RESIDENTIAL NON-RESIDENTIAL.
- ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET 2022 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6, ENERGY EFFICIENCY STANDARDS, SECTION 120.3 AND TABLE 4-15.
- ALL INSULATION INSTALLED MUST MEET THE FLAME SPREAD AND SMOKE DENSITY REQUIREMENTS OF 2022 CBC, PART 1, SECTION 720 AND 2022 CMC, SECTION 602.2.
- ALL PIPING EXPOSED TO WEATHER MUST BE METALLIC.
- ALL FERROUS PIPING EXPOSED TO WEATHER MUST BE GALVANIZED AND PAINTED.
- ALL PIPES, FITTINGS AND FIXTURES USED TO CONVEY POTABLE WATER MUST BE LEAD FREE IN COMPLIANCE WITH CPC SECTION 604.2.
- ALL FIXTURES REQUIRED TO BE ACCESSIBLE MUST BE INSTALLED AS PER THE LATEST REQUIREMENTS OF TITLE 24 AND ADA (AMERICANS WITH DISABILITIES ACT).
- CROSS CONNECTION PROTECTION MUST BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).
- A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN THAT TERMINATES OUTSIDE THE BUILDING MUST COMPLY WITH CPC SECTION 608.5.
- WATER HEATER MUST BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER CPC SECTION 507.2.
- WATER HEATER MUST COMPLY WITH CPC SECTION 608.3, FOR THERMAL EXPANSION REQUIREMENTS.
- LAVATORY FAUCETS IN PUBLIC RESTROOM MUST BE SELF CLOSING TYPE.
- TUB AND SHOWER COMBINATIONS MUST BE PROVIDED WITH MIXING VALVES PER CPC SECTION 408.3.
- SHOWERHEADS MUST BE 1.8 GPM AT 80PSI.
- NONRESIDENTIAL LAVATORY FAUCETS MUST BE 0.4 GPM MAXIMUM.
- KITCHEN FAUCETS AND WASH FOUNTAINS MUST BE 1.8 GPM MAXIMUM.
- METERING FAUCETS MUST BE 0.2 GPC MAXIMUM.
- WATER CLOSETS (GRAVITY TANK TYPE, FLUSHOMETER TANK, FLUSHOMETER VALVE AND ELECTROMECHANICAL HYDRAULIC TYPE) MUST BE 1.28 GPF MAXIMUM.
- FLOOR-MOUNT URINALS MUST BE 0.5 GPF MAXIMUM. WALL-MOUNT URINALS MUST BE 0.125 GPF MAXIMUM.
- ALL INSTALLATION OF PEX PIPE INSTALLED IN NEW CONSTRUCTION MUST BE FLUSHED TWICE OVER A PERIOD OF AT LEAST ONE WEEK PER CPC SECTION 604.1.2. PEX.
 - AT THE TIME OF FILL, EACH NEW PLUMBING FIXTURE MUST HAVE A REMOVABLE TAG APPLIED STATING:
 - THIS NEW PLUMBING SYSTEM MUST BE FIRST FILLED AND FLUSHED ON THE SYSTEM (DATE) BY (NAME). THE STATE OF CALIFORNIA REQUIRES THAT THE SYSTEM BE FLUSHED AFTER STANDING AT LEAST ONE WEEK AFTER THE FILL DATE SPECIFIED ABOVE. IF THIS SYSTEM IS USED EARLIER THAN ONE WEEK AFTER THE FILL DATE ABOVE, IF THIS SYSTEM IS USED EARLIER THAN ONE WEEK AFTER THE FILL DATE, THE WATER MUST BE ALLOWED TO RUN FOR AT LEAST TWO MINUTES PRIOR TO USE FOR HUMAN CONSUMPTION. THE TAG MAY NOT BE REMOVED PRIOR TO THE COMPLETION OF THE REQUIRED SECOND FLUSHING, EXCEPT BY BUILDING OWNER OR OCCUPANT.
 - PRIOR TO ISSUING A BUILDING PERMIT TO INSTALL PEX PIPE, THE BUILDING OFFICIAL MUST REQUIRE AS PART OF THE PERMITTING PROCESS THAT THE CONTRACTOR, OR THE APPROPRIATE PLUMBING SUBCONTRACTORS, PROVIDE WRITTEN CERTIFICATION THAT HE OR SHE WILL COMPLY WITH THE FLUSHING PROCEDURES SET FORTH BY CODE.
 - THE BUILDING OFFICIAL MUST NOT GIVE FINAL PERMIT APPROVAL FOR ANY PEX PLUMBING INSTALLATION UNLESS HE OR SHE FINDS THAT THE MATERIAL HAS BEEN INSTALLED IN COMPLIANCE WITH THE REQUIREMENTS OF THE CODE, INCLUDING THE REQUIREMENTS TO FLUSH AND TAG THE SYSTEMS.
 - ANY CONTRACTOR OR SUBCONTRACTOR FOUND TO HAVE FAILED TO COMPLY WITH THE PEX FLUSHING REQUIREMENTS MUST BE SUBJECT TO THE PENALTIES IN HEALTH AND SAFETY CODE, DIVISION 13, PART 1.5, CHAPTER 6 (SECTION 17995, et seq.).

APPLICABLE CODES

- 2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR PART 1, TITLE 24
- 2025 CALIFORNIA BUILDING CODE (CBC),

MANDATORY CALGREEN CHECKLIST	
WATER EFFICIENCY AND CONSERVATION INDOOR WATER USE	MANDATORY
5.303.1 METERS, SEPARATE METERS MUST BE INSTALLED FOR THE USES DESCRIBED IN SECTIONS 5.303.1.1 AND 5.303.1.2. 5.303.1.1 BUILDINGS IN EXCESS OF 50,000 SQUARE FEET. SEPARATE SUBMETERS MUST BE INSTALLED AS FOLLOWS: 1. FOR EACH INDIVIDUAL LEASED, RENTED OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTED TO CONSUME MORE THAN 100GAL/DAY. 2. WHERE SEPARATE SUBMETERS FOR INDIVIDUAL BUILDINGS TENANTS ARE UNFEASIBLE, FOR WATER SUPPLIED TO THE FOLLOWING SUBSYSTEMS: a. MAKEUP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM (30L/S) b. MAKEUP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM (0.04 L/S) c. STEAM AND HOT-WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 Btu/h (147 kW) 5.303.1.2 EXCESS CONSUMPTION, ANY BUILDING OR A SPACE WITHIN A BUILDING THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY (3800 L/DAY) 5.303.2 20 PERCENT SAVINGS. A SCHEDULE OF PLUMBING FIXTURES AND FIXTURE FITTINGS THAT WILL REDUCE THE OVERALL USE OF POTABLE WATER WITHIN THE BUILDING BY 20 PERCENT MUST BE PROVIDED. (CALCULATE SAVINGS BY WATER USE WORKSHEETS) 5.303.2.1 MULTIPLE SHOWERHEADS SERVING ONE SHOWER. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL THE SHOWERHEADS CONTROLLED BY A SINGLE VALVE MUST NOT EXCEED THE MAXIMUM FLOW RATE AT ≥ 20 PERCENT REDUCTION CONTAINED IN TABLE 5.303.2.3 OR THE SHOWER MUST BE DESIGNED TO ONLY ALLOW ONE SHOWERHEAD TO BE IN OPERATION AT A TIME. 5.303.4 WASTEWATER REDUCTION. EACH BUILDING MUST REDUCE THE GENERATION OF WASTEWATER BY ONE OF THE FOLLOWING METHODS: 1. THE INSTALLATION OF WATER-CONSERVING FIXTURES OR 2. UTILIZING NONPOTABLE WATER SYSTEMS. 5.303.6 PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) MUST COMPLY WITH THE REQUIREMENTS LISTED FOR EACH TYPE IN ITEMS LISTED IN TABLE 5.303.6. 1. WATER CLOSETS (TOILETS) – FLUSHOMETER TYPE 2. WATER CLOSETS (TOILETS) – TANK TYPE 3. URINALS 4. PUBLIC LAVATORY FAUCETS 5. PUBLIC METERING SELF-CLOSING FAUCETS 6. RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS 7. RESIDENTIAL KITCHEN FAUCETS 8. RESIDENTIAL SHOWER HEADS 9. SINGLE SHOWER FIXTURES SERVED BY MORE THAN ONE SHOWERHEAD	

WATER REDUCTION FIXTURE FLOW RATES	
PER 2022 CALIFORNIA GREEN BUILDING CODE – TABLE A5.303.2.3.1	
FIXTURE TYPE	MAXIMUM FLOW RATE
LAVATORY FAUCETS NONRESIDENTIAL	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM AT 60 PSI
WASH FOUNTAINS	1.8 [RIM SPACE (IN.)/20 GPM AT 60 PSI]
METERING FAUCETS	0.20 GALLONS/CYCLE
METERING FAUCETS FOR WASH FOUNTAINS	0.20 GALLONS/CYCLE/20 [RIM SPACE (IN.)@ 60 PSI]

EACH PLUMBING FIXTURE AND FITTING MUST MEET THE FLOW RATE SPECIFIED IN 2022 CAL GREEN TABLE A5.303.2.3.1.

WATER CONSERVATION FIXTURE FLOW RATES	
PER 2022 CALIFORNIA GREEN BUILDING CODE SECTION 5.303.3	
FIXTURE TYPE	MAXIMUM BASELINE FLOW RATE
WATER CLOSETS	1.28 GALLONS PER FLUSH
URINALS (FLOOR-MOUNT/WALL-MOUNT)	0.5/0.125 GALLONS PER FLUSH
SHOWERHEADS	1.8 GPM AT 80 PSI

PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) MUST COMPLY WITH 5.303.3.

PLUMBING FIXTURES AND FIXTURE FITTINGS	
PER 2022 CALIFORNIA PLUMBING CODE – TABLE 1701.1	
REQUIRED STANDARDS	
WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME	ASME A 112.19.2/CSA B45.1 – 1.28 GPF (4.8 L)
WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE DUAL FLUSH, MAXIMUM FLUSH VOLUME	ASME A 112.19.2 AND USEPA WATERSENSE TANK-TYPE HIGH-EFFICIENCY TOILET SPECIFICATION – 1.28 GPF (4.8 L) U.S. EPA WATERSENSE TANK-TYPE HIGH EFFICIENCY TOILET SPECIFICATION
WATER CLOSETS (TOILETS) – TANK TYPE	
URINALS, MAXIMUM FLUSH VOLUME	ASME A 112.19.2/CSA B45.1 – 0.5 GPF (1.9 L)
URINALS, NONWATER URINALS	ASME A 112.19.19 (VITREOUS CHINA) ANSI Z124.9–2004 OR IAPMO Z124.9 (PLASTIC)
PUBLIC LAVATORY FAUCETS; MAXIMUM FLOW RATE – 0.5 GPM (1.9 L/MIN.)	ASME A 112.18.1/CSA B125.1
PUBLIC METERING SELF-CLOSING FAUCETS; MAXIMUM FLOW RATE – 0.25 (1.0 L) PER METERING CYCLE	ASME A 112.18.1/CSA B125.1
RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS; MAXIMUM FLOW RATE – 1.5 GPM (5.7 L/MIN)	ASME A 112.18.1/CSA B125.1

PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) MUST MEET THE STANDARDS REFERENCED IN TABLE 5.303.6.

PLUMBING PIPE MATERIAL SCHEDULE			
SERVICE	LOCATION	PIPE MATERIAL	SLOPE
WATER	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/32" PER 1'
	BELOW GRADE	ASTM B88 TYPE "K" HARD DRAWN COPPER, FACTORY INSULATED, WITH WROUGHT COPPER FITTINGS.	1/32" PER 1'
SEWER AND VENT	ABOVE GRADE	ASTM A888 HUBLESS CAST IRON PIPE AND DWV FITTINGS MUST CONFORM TO CPC AND BEAR THE COLLECTIVE TRADEMARK OF CISH AND NSF	1/4" PER 1'
	BELOW GRADE	"SOILD" WALL "PVC" PER ASTM D1785/D2665, DRAIN; WASTE AND VENT: "PVC" SOCKET FITTINGS PER ASTM D2665. CELLULAR/FOAM CORE PIPING MUST NOT BE ACCEPTABLE.	1/4" PER 1'

PIPE INSULATION THICKNESS									
PER 2022 CALIFORNIA ENERGY CODE TABLE 120.3-A									
FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE DIAMETER(INCHES)						
	CONDUCTIVITY (IN BTU-IN/H PER SQ. FT² °F)	MEAN RATING TEMPERATURE (°F)	<1	1 – < 1.5	1.5 – < 4	4 – < 8	8 AND LARGER	INSULATION THICKNESS REQUIRED (IN INCHES)	
								SPACE HEATING, SERVICE WATER HEATING SYSTEMS (STEAM, STEAM CONDENSATE, REFRIGERANT, SPACE HEATING, SERVICE HOT WATER)	MINIMUM PIPE INSULATION REQUIRED (THICKNESS IN INCHES OR R-VALUE)
ABOVE 350	0.32 – 0.34	250	INCHES R-VALUE	4.5 R37	5.0 R41	5.0 R37	5.0 R27	5.0 R23	
251–350	0.29 – 0.31	200	INCHES R-VALUE	3.0 R24	4.0 R34	4.5 R35	4.5 R26	4.5 R22	
201–250	0.27 – 0.30	150	INCHES R-VALUE	2.5 R21	2.5 R20	2.5 R17.5	3.0 R17	3.0 R14.5	
141–200	0.25 – 0.29	125	INCHES R-VALUE	1.5 R11.5	1.5 R11	2.0 R14	2.0 R11	2.0 R10	
105–140	0.22 – 0.28	100	INCHES R-VALUE	1.0 R7.7	1.5 R12.5	1.5 R11	1.5 R9	1.5 R8	
SPACE COOLING SYSTEMS (CHILLED WATER, REFRIGERANT AND BRINE)			NOMINAL PIPE DIAMETER(INCHES)						
			<=1	1 – < 1.5	1.5 – < 4	4 – < 8	8 <		
40–60	0.21 – 0.27	75	INCHES R-VALUE	NONRES 0.5 R3	RES 0.5 R6	NONRES 0.5 R3	RES 1.0 R5	1.0 R5	1.0
BELOW 40	0.20 – 0.26	50	INCHES R-VALUE	1.0	1.5	1.5	1.5	1.5	1.5

PLUMBING EQUIPMENT SCHEDULE					
TAG	EQUIPMENT	LOCATION	MANUFACTURER	MODEL	REMARKS
WHA 1	WATER HAMMER ARRESTOR	VARIES	PPP	SYSTEM RATED PLUS	PISTON OPERATED WITH HARD DRAWN, SEAMLESS TYPE "K" COPPER BODY. PROVIDE WITH APPROVED ACCESS PANEL.

PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	MIN. PIPE SIZE				REMARKS
		CW	HW	V	S	
L 1	LAVATORY	3/4"	--	1-1/2"	2"	AMERICAN STANDARD "LUCERNE" #0356.137, VITREOUS CHINA, WALL MOUNT. FAUCET: CHICAGO #807-E12-765PAB, METERED, DECK-MOUNTED, SINGLE-HOLE, SINGLE-SUPPLY WITH PUSH HANDLE AND AERATOR. PROVIDE TRUEBERO "LAVGUARD" P-TRAP COVER.
WC 1	WATER CLOSET (FLUSH VALVE)	1-1/2"	--	2"	4"	AMERICAN STANDARD "BABY DEVORO" #2282.001. HIGH EFFICIENCY, VITREOUS CHINA, ELONGATED RIM, 1.28 GPF, 10.25" RIM HEIGHT. FLUSH VALVE: SLOAN "REGAL 111" MANUAL CONTROL. SEAT: AMERICAN STANDARD #5001G.055. OPEN FRONT, LESS COVER.

FIXTURE DATA								
SYMBOL	DESCRIPTION	NO. OF UNITS	F.U. PER UNIT ①	DOMESTIC WATER		NO. OF UNITS	F.U. PER UNIT ②	TOTAL FIXTURE UNITS
				TOTAL FIXTURE UNITS	HW			
L 1	LAVATORY	2	1.0	2.0	1.5	2	1.0	2.0
WC 1	WATER CLOSET (VALVE)	2	5.0	10.0	--	2	4.0	8.0
	TOTAL			12.0	1.5			10.0

① WATER FIXTURE UNITS PER CPC TABLE A 103.1 ② SEWER FIXTURE UNITS PER CPC TABLE 702.1

FIXTURE DATA								
SYMBOL	DESCRIPTION	NO. OF UNITS	F.U. PER UNIT ①	DOMESTIC WATER		NO. OF UNITS	F.U. PER UNIT ②	TOTAL FIXTURE UNITS
				TOTAL FIXTURE UNITS	HW			
HB 1	HOSE BIBB	0	2.5	0.0	--	0	--	--
HB 1	ADDITIONAL HOSE BIBB	0	1.0	0.0	--	0	--	--
L 1	LAVATORY	0	1.0	0.0	0.0	0	1.0	0.0
WC 1	WATER CLOSET (VALVE)	0	5.0	0.0	--	0	4.0	0.0
WC 1	FLOOR DRAIN	0	--	--	--	0	0.0	0.0
FD 1	TOTAL			0.0	0.0			0.0

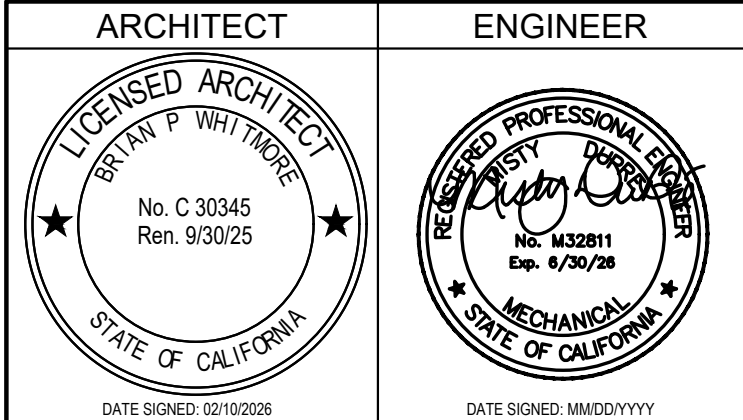
① WATER FIXTURE UNITS PER CPC TABLE A 103.1 ② SEWER FIXTURE UNITS PER CPC TABLE 702.1

WATER CALCULATIONS			
DOMESTIC COLD WATER PRESSURE CALCULATION (AVG PSI / 100 FT)		DOMESTIC COLD WATER SIZING	
RESIDUAL PRESSURE CONTRACTOR TO FIELD VERIFY WATER PRESSURE AT THE BUILDING. NOTIFY E.O.R IF PRESSURE IS BELOW 40 PSI AT THE BUILDING.		FRICTION LOSS 7.1 PSI PER 100 FT AVG, AT 8 FPS MAX. VELOCITY	
MINIMUM PRESSURE REQUIRED AT THE BUILDING		=	40 PSI
STATIC HEIGHT PRESSURE LOSS (15' x .433)		=	6.5 PSI
RESIDUAL PRESSURE REQUIRED AT GOVERNING FIXTURE [WATER CLOSET 25 PSI]		=	25 PSI
TOTAL SYSTEM PRESSURE LOSSES (DOWNSTREAM OF PRV)		=	31.5 PSI
PRESSURE AVAILABLE FOR PIPE SIZING (PRV SETPOINT – TOTAL SYSTEM PRESSURE LOSSES DOWNSTREAM OF PRV)		=	8.5 PSI
ACTUAL LENGTH OF SYSTEM		=	80 FT
DEVELOPED LENGTH OF SYSTEM (80' X 1.5)		=	120 FT
AVERAGE PRESSURE DROP (PRESSURE AVAILABLE FOR PIPE SIZING) X 100 FT / (DEVELOPED LENGTH OF SYSTEM)		=	(8.5PSI x100 / 120)
SUMMARY		PIPE SIZING BASED UPON 7.1 PSI LOSS PER 100' AVG	

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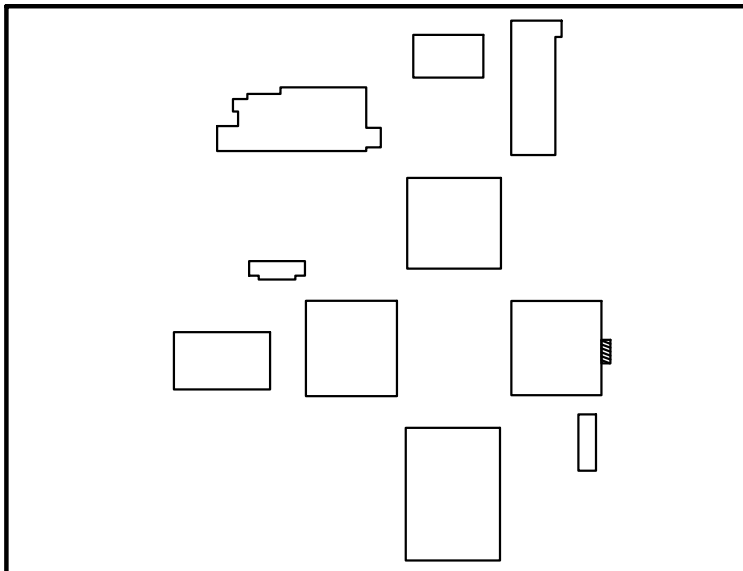
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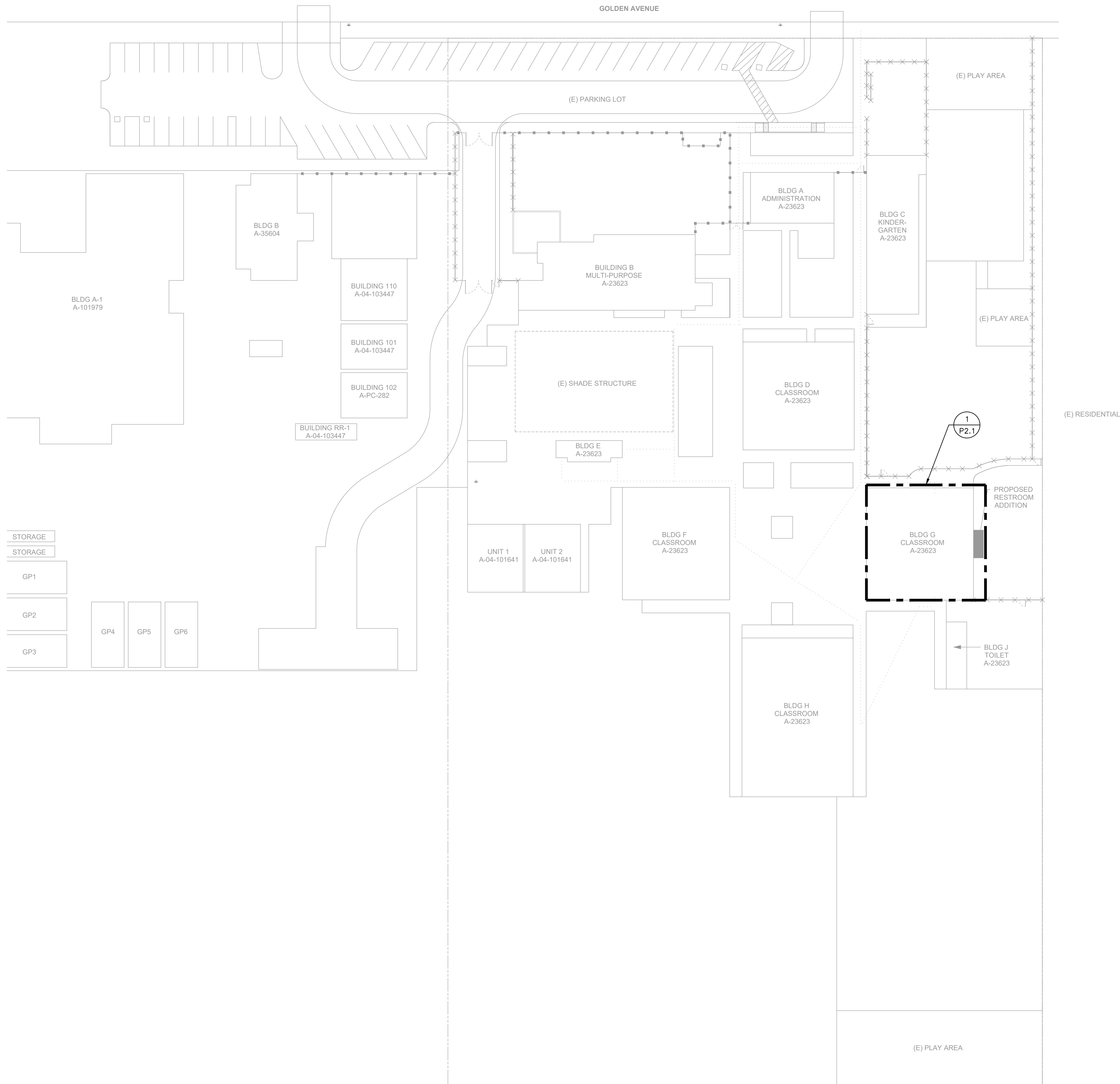
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PLUMBING
SCHEDULES

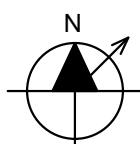
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Project Number 25060
Drawing Number
P0.2



PLUMBING SITE PLAN

1/32" = 1'-0"



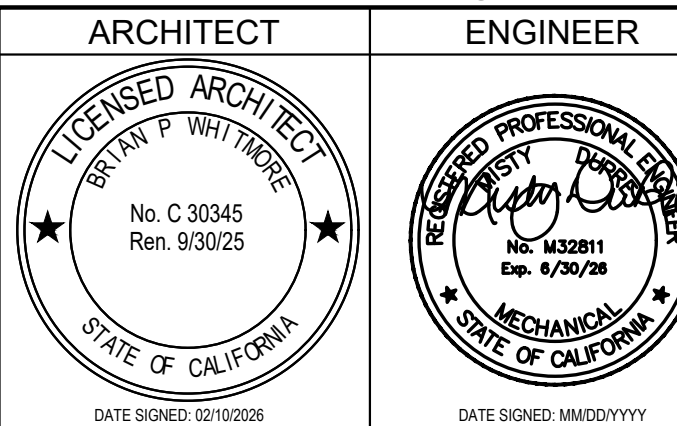
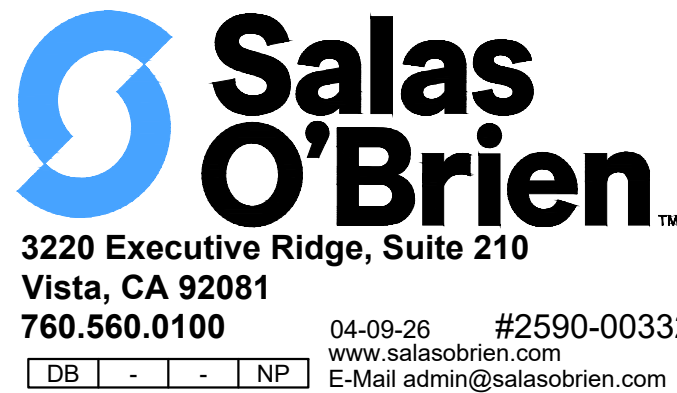
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- VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE MUST THE CONNECTION SIZE BE LARGER THAN THE BRANCH PIPING SIZE.

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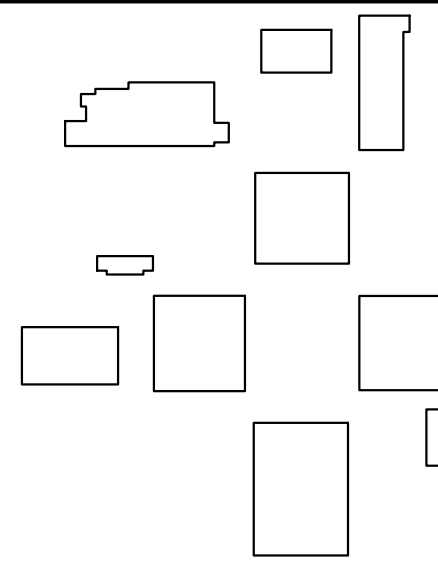
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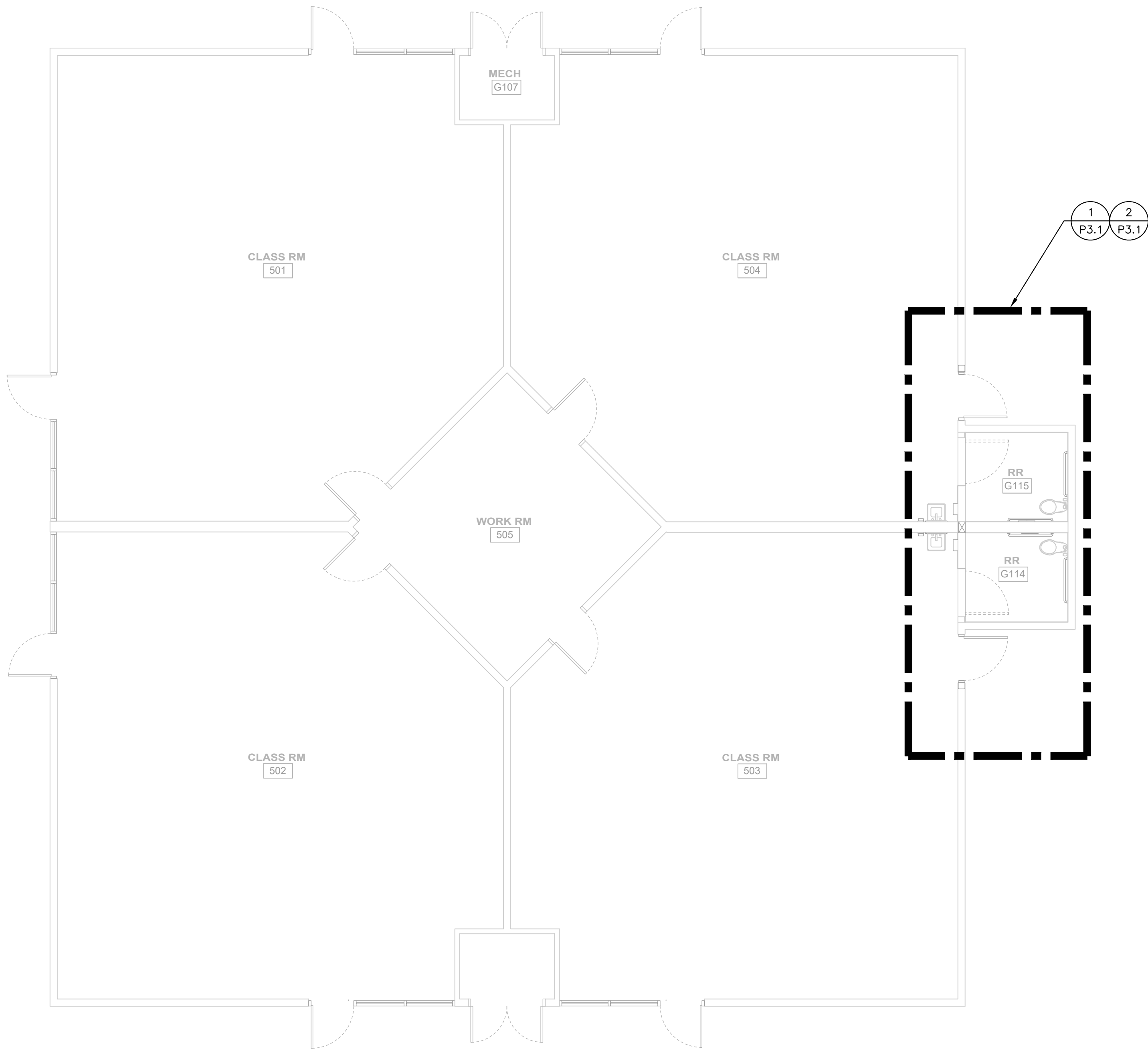
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PLUMBING
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- C. VERIFY EXACT SIZE AND LOCATION OF ALL PLUMBING CONNECTIONS TO MECHANICAL EQUIPMENT PRIOR TO START OF WORK. IN NO CASE MUST THE CONNECTION SIZE BE LARGER THAN THE BRANCH PIPING SIZE.

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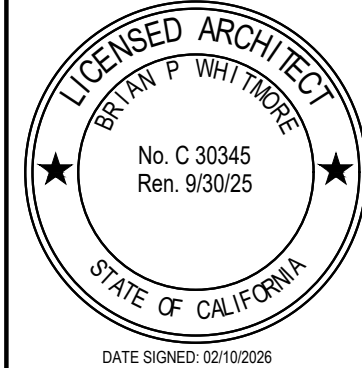
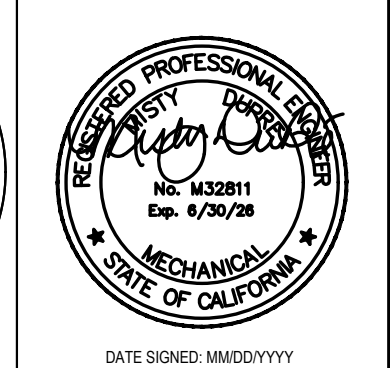


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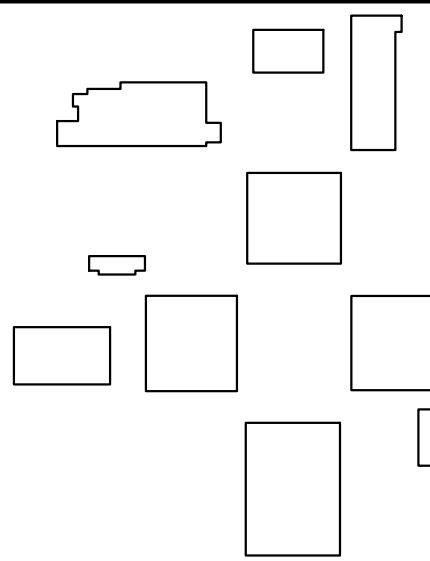
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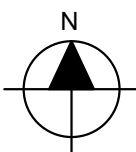
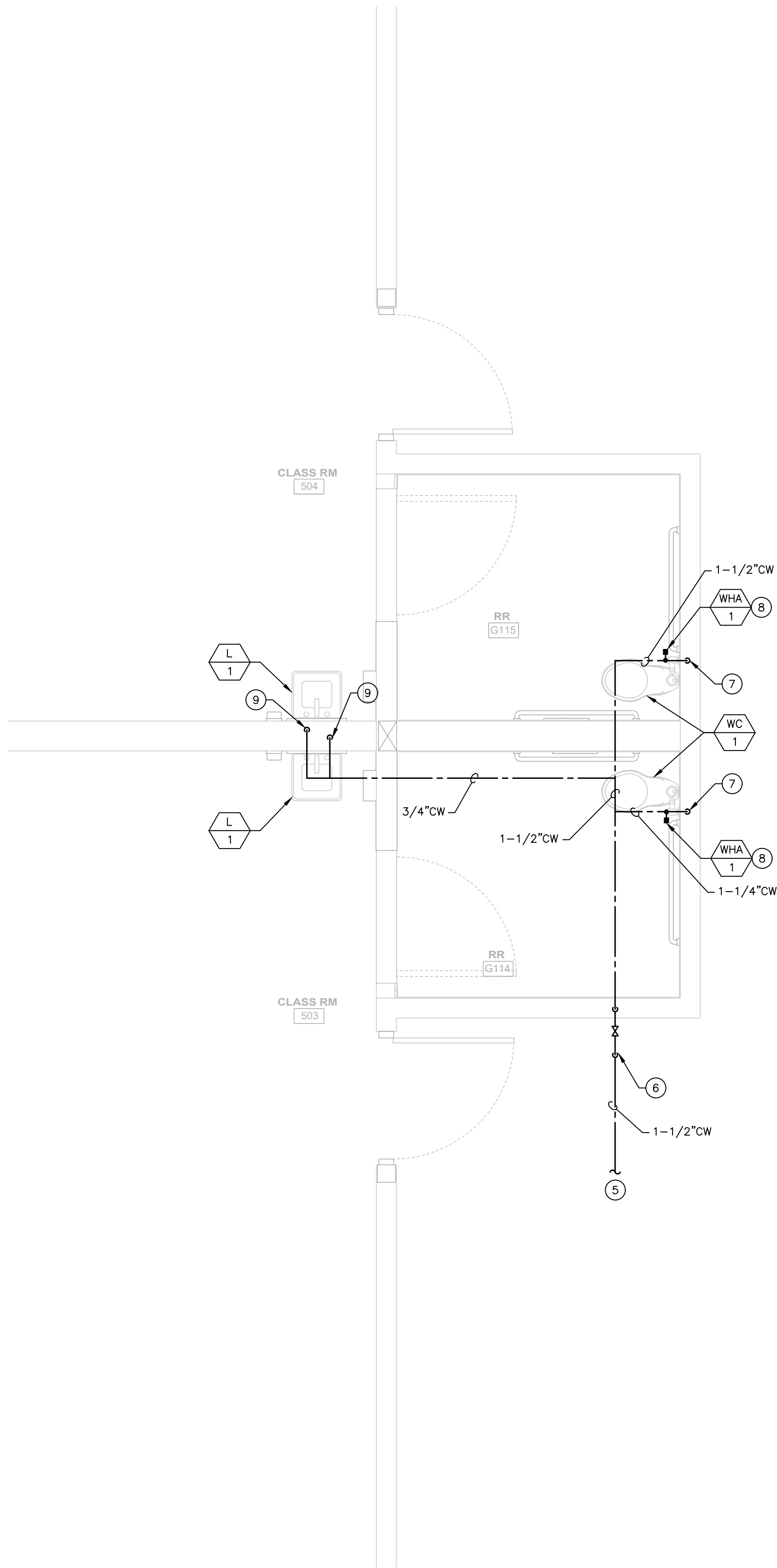
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PLUMBING
FLOOR PLAN

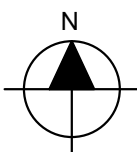
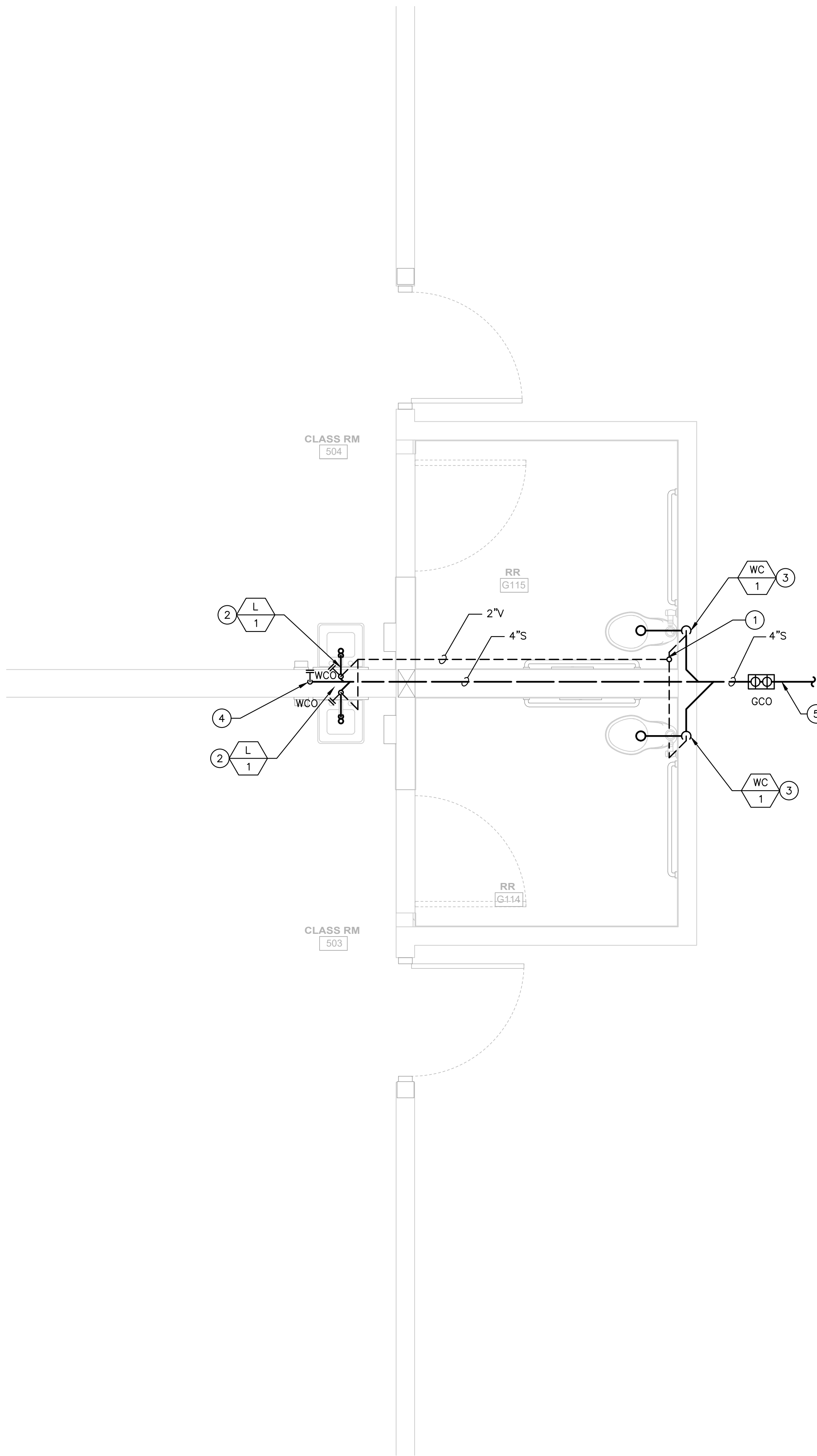
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PLUMBING FLOOR PLAN - DOMESTIC WATER

1/2" = 1'-0"

2



PLUMBING FLOOR PLAN - SEWER & VENT

1/2" = 1'-0"

1

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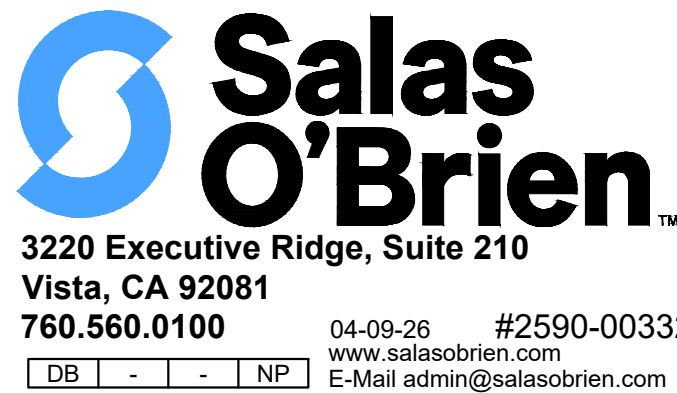
KEY NOTES

- 3" VENT THROUGH ROOF. TERMINATE 10' AWAY FROM ANY AIR INTAKE. SEE DETAIL 1/P5.1.
- 2" SEWER DOWN. 1-1/2" VENT UP.
- 4" SEWER DOWN. 2" VENT UP.
- FOR CLEANOUT, REFER TO DETAIL 2/P5.1
- REFER TO CIVIL PLANS FOR CONTINUATION.
- 1-1/2" COLD WATER FROM BELOW GRADE. PROVIDE LOCKABLE SHUT-OFF VALVE BEFORE ENTERING TO BUILDING.
- 1-1/2" COLD WATER DOWN WALL.
- WATER HAMMER ARRESTOR. SEE DETAIL 3/P5.1. PROVIDE ACCESS PANEL, COORDINATE LOCATION WITH ARCHITECT.
- 3/4" COLD WATER DOWN WALL TO PLUMBING FIXTURE.

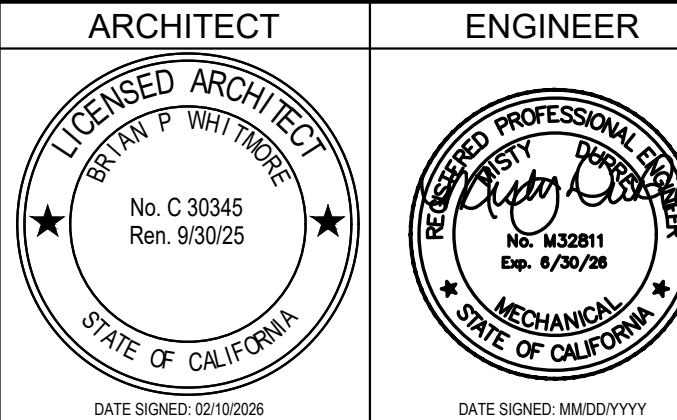
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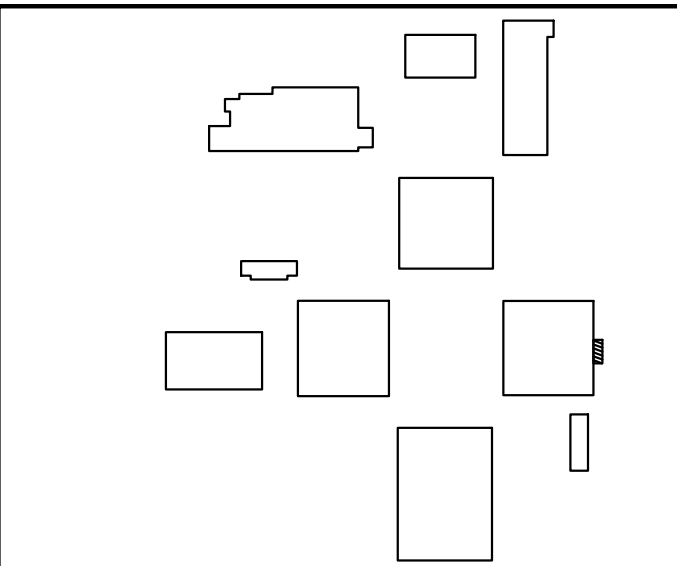
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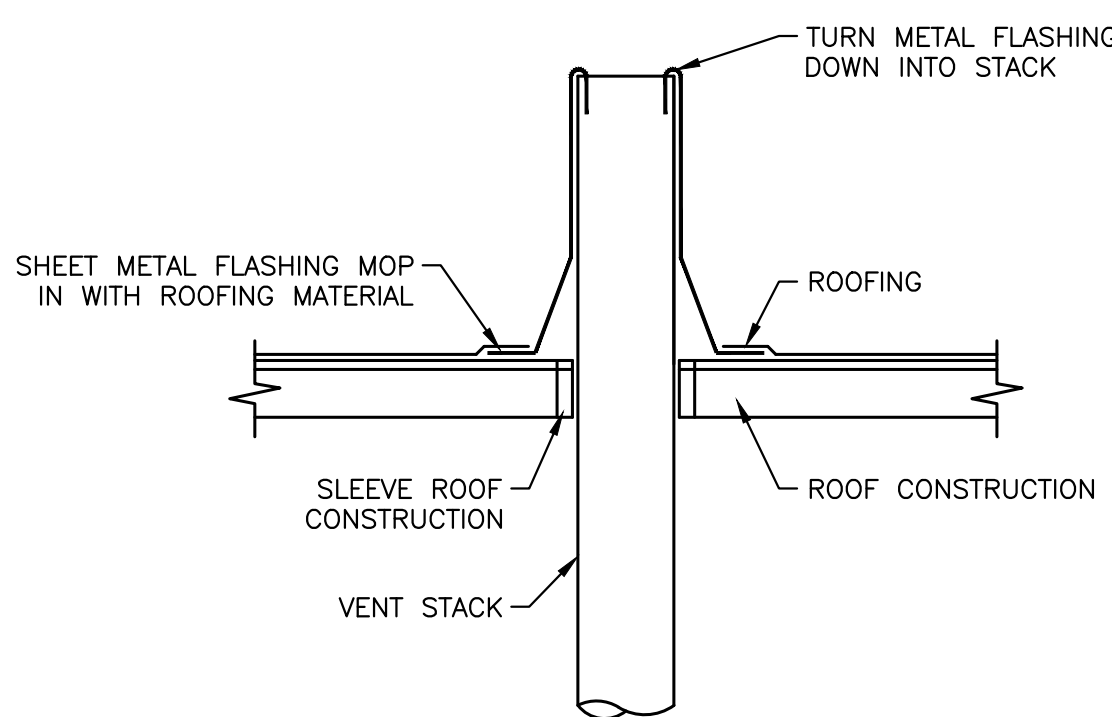
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PLUMBING
ENLARGED
FLOOR PLANS

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Drawn SO	Checked SO

PRINT DATE: 11/3/2026 8:31:40 AM
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						NOTE: EXTEND VENT PIPING A MINIMUM OF 6" ABOVE ROOFING.						
NOT USED			SCALE NONE	10	NOT USED			SCALE NONE	7	NOT USED		
NOT USED			SCALE NONE	11	NOT USED			SCALE NONE	8	NOT USED		
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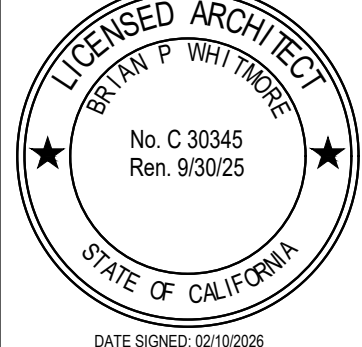
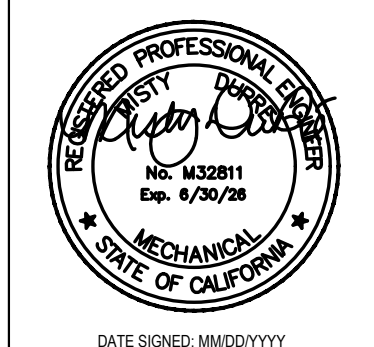
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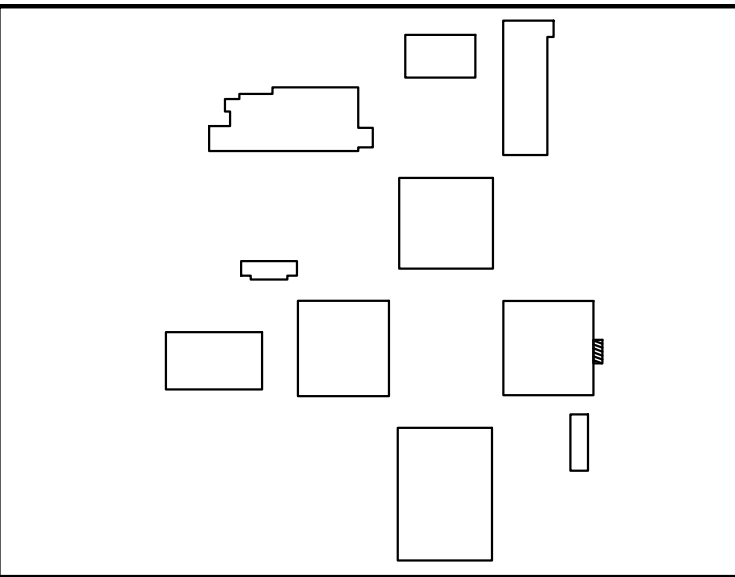
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DETAILS

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ELECTRICAL SYMBOL LEGEND		PROJECT NOTES		ABBREVIATIONS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
	CONDUIT HOMERUN WITH PANEL DESIGNATION AND CIRCUITS INDICATED.		DUCT MOUNTED SMOKE DETECTOR	A	AMPS
	CONDUIT/WIRING, INSTALLED IN OR BELOW FLOOR SLAB.		SOLID STATE, ELECTRONIC, ADJUSTABLE TRIP CIRCUIT BREAKER WITH LSIG.	AF	AMP FUSE (SIZE), AMP FRAME (SIZE)
	CONDUIT/WIRING, EXPOSED.		DAYLIGHT AREA SENSOR, PRIMARY AND SECONDARY WHERE APPLICABLE	AFCI	ARC FAULT CURRENT INTERRUPT
	CONDUIT/WIRING CONCEALED IN WALL OR CEILING SPACE.		SMOKE DETECTOR	AFF	ABOVE FINISH FLOOR
	CONDUIT, FLEXIBLE CONNECTION		FIRE SMOKE DAMPER (PROVIDED BY OTHERS)	BC	AMP SWITCH (SIZE)
	DRY LOCATIONS = FLEXIBLE STEEL CONDUIT	Signal Systems		C	BARE COPPER
	WET LOCATIONS = LIQUIDTIGHT FLEXIBLE STEEL CONDUIT		TELEPHONE OR TERMINAL CABINET	CB	CONDUIT
	LIGHT FIXTURE DESIGNATION		TELEPHONE OR TERMINAL CABINET, WITH PLYWOOD BACKBOARD	CR	CIRCUIT BREAKER
	LED LIGHTING FIXTURE		PAGING SPEAKER, WALL MOUNT	CO	CONDUIT ONLY, WITH PULL LINE
	UPPER CASE LETTER(S) = FIXTURE TYPE		PAGING SPEAKER, CEILING MOUNT WITH BACKBOX	CU	COPPER
	NUMBER = CIRCUIT NUMBER		INTRUSION INFRARED SENSOR.	EDF	ELECTRIC DRINKING FOUNTAIN
	LOWER CASE LETTER(S) = ROOM SWITCHING CIRCUITS AND NUMBER OF SWITCHES		TIME-OF-DAY CLOCK OUTLET AND CLOCK, AT +96" AFF, U.O.N.	EMT	ELECTRICAL METALLIC TUBING
NOTE: THIS LABELING SCHEME IS TYPICAL FOR ALL LIGHT FIXTURES.			CABLE TELEVISION OUTLET, AT +18" AFF, U.O.N.	EXP	EXPLOSION PROOF
	LED, WALL MOUNTED LIGHT FIXTURE.		CLOCK AND SPEAKER COMBINATION	F	FUSE
	LED STRIP OR UNDERCABINET TASK LIGHT		DATA JUNCTION BOX, AT +18" AFF U.O.N., WITH 1-1/4" CONDUIT ONLY WITH PULLSTRING UP TO NEAREST CABLE TRAY OR ACCESSIBLE TO CEILING SPACE.	G	GROUND CONDUCTOR
	LED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY POWER SYSTEM.		TELEPHONE JUNCTION BOX, AT +18" AFF U.O.N., WITH 1-1/4" CONDUIT ONLY WITH PULLSTRING UP TO NEAREST ACCESSIBLE TO CEILING SPACE.	GFI	GROUND FAULT INTERRUPT PROTECTION
	POLE MOUNTED LIGHT FIXTURE WITH POLE AND FOUNDATION. NUMBER AND ORIENTATION OF LUMINAIRES AS SHOWN ON DRAWINGS.		T-E/DATA JUNCTION BOX AT +18" AFF, U.O.N., WITH (2)-1-1/4" CONDUIT ONLY WITH PULLSTRING UP TO NEAREST CABLE TRAY OR ACCESSIBLE CEILING SPACE.	OND	GROUND
	LIGHTING FIXTURE, WALL OR BRACKET MOUNTED.		W = WALL MOUNT AT +46" AFF, U.O.N.	ISC	INTERMEDIATE METALLIC CONDUIT
	LIGHTING FIXTURE, SURFACE OR RECESSED MOUNTED.		CEILING MOUNTED DATA AT T-BAR CEILING NOT TO BE MOUNTED IN CEILING SPACE, WITH 1" CONDUIT AND (1) CAT 6 CABLE TO INTERMEDIATE DISTRIBUTION FRAME AS INDICATED ON DWGS.	ISC	INTERRUPTING SHORT CIRCUIT
	LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY POWER SYSTEM.		PROJECTOR SHOWN FOR REFERENCE ONLY	LCL	LONG CONTINUOUS LOAD
	TRACK LIGHTING WITH FIXTURES.		DATA OUTLET, FLUSH FLOOR MOUNTED, WITH HINGED COVER, U.O.N.	LMAX	MAXIMUM
	MOTION SENSOR, DUAL TECHNOLOGY, CEILING MOUNTED NOT TO BE LOCATED WITHIN 48" OF ANY HVAC DIFFUSER.	DEMOLITION NOTES		MCB	MAIN CIRCUIT BREAKER
	EXIT LIGHT FIXTURE. DARKENED AREA INDICATES FIXTURE FACE. ARROW INDICATES DIRECTION OF FACE ARROW. LL = LOW LEVEL.		1. THE CONTRACTOR MUST VISIT THE SITE SPECIFICALLY INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. THE CONTRACTOR MUST THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE DRAWINGS, INCLUDING ALL AREAS INDICATED ON THE DRAWINGS, INCLUDING ALL AREAS INDICATED ON THE DRAWINGS, INCLUDING ALL AREAS INDICATED ON THE DRAWINGS.	MIN	MINIMUM
	JUNCTION BOX, HANDHOLE OR PULLBOX WITH COVER, SIZE PER NEC, ART. 314.28.		2. IT MUST BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTABLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE REMODELED AREA. THIS INCLUDES RELOCATING, OR THE EXTENSION OF, EXISTING CONDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF EXISTING EQUIPMENT REMAINING.	MLO	MAIN LUGS ONLY
	FUSE		3. ALL CIRCUIT NUMBERS AND EXISTING CONDUIT HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF HOMERUNS, AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED.	NEC	NON-AUTOMATIC NATIONAL ELECTRICAL CODE
	UTILITY COMPANY APPROVED CT/METER PROVISIONS		4. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT-OFF AND CAPPED FLUSH WITH FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS UNLESS NOTED OTHERWISE.	NWE	NO KNOWN EQUAL; NO SUBSTITUTES
	FUSED SWITCH		5. IT MUST BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. CONTINUITY MUST CONSIST OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.	NOM	NOMINAL
	CIRCUIT BREAKER		6. WHERE NEW CIRCUITS ARE SHOWN TO EXISTING PANELS, INSTALL NEW BREAKERS OF SAME TYPE, STYLE AND RATING (MINIMUM 20 AMP, SINGLE POLE) AS CALLED FOR ON DRAWINGS. IDENTIFY EACH NEW CIRCUIT ON PANEL SCHEDULE.	NTS	NOT TO SCALE
	TIME CLOCK		7. EXISTING CONDUIT MAY BE REUSED IF ADEQUATELY SIZED, BUT IN NO CASE MUST ANY EXISTING CONDUCTORS BE REUSED.	P	POLE
	LIGHTING OR POWER PANEL - FLUSH MOUNT UNLESS INDICATED OTHERWISE		8. ALL ABANDONED OUTLETS INCLUDING LIGHT, RECEPTABLES, TELEPHONE, ETC., MUST BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER.	PH OR Ø	PHASE
	MOTOR OR MECHANICAL EQUIPMENT, WITH FLEXIBLE CONNECTION		9. ALL LIGHTING FIXTURES REMOVED TO ACCOMPLISH DEMOLITION WORK MUST BE REINSTALLED SIMILAR TO NEW WORK	PNL	PANEL
	MECHANICAL EQUIPMENT DESIGNATION	BRANCH CIRCUIT WIRING NOTE		PVC	POLYVINYL CHLORIDE
	DISCONNECT SWITCH (30=AMPS 3=POLES) NEMA 1 INDOORS NEMA 3B IN WET LOCATIONS F = FUSED	MEP COMPONENT ANCHORAGE NOTE		REQ'D	REQUIRED
	PROVIDE TIME-DELAY TYPE FUSE(S) SIZED PER EQUIPMENT MANUFACTURERS NAMEPLATE RATING.	ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.		RGS	RIGID GALVANIZED STEEL
	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTOR	1. ALL PERMANENT EQUIPMENT AND COMPONENTS		SCM	STATE FIRE MARSHAL
	MAGNETIC MOTOR STARTER WITH THERMAL OVERLOAD PROTECTOR	2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDED ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTABLES HAVING FLEXIBLE CABLE.		SWBD	SWITCHBOARD
	COMBINATION MOTOR STARTER WITH FUSED SWITCH, WITH THERMAL OVERLOAD PROTECTOR AND DUAL ELEMENT FUSES. (30=AMPS, 3=POLES 0=STARTER SIZE).	3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.		SWGR	SWITCHGEAR
	PUSHBUTTON OR SHUNT TRIP STATION	THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.		TYP	TYPICAL, UNLESS NOTED OTHERWISE, OF MANY
	DUPLEX RECEPTACLE, +18" AFF, U.O.N.; NEMA 5-20R, U.O.N.; NUMBER INDICATES CIRCUIT NUMBER.	A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAN DIRECTLY SUPPORTS THE COMPONENT.		U.O.N.	UNLESS OTHERWISE NOTED OR INDICATED
	GFI	B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.		V	VOLTS
	DOUBLE DUPLEX RECEPTACLE, +18" AFF, U.O.N.	THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.		WP	WEATHERPROOF
	DUPLEX RECEPTACLE ABOVE COUNTERTOP BACKSPASH, VERIFY REQ'D HEIGHT	PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS BRACING NOTE:		XL	EXISTING TO REMAIN
	POWER RECEPTACLE, SEE POWER RECEPTACLE SCHEDULE FOR NEMA CONFIGURATION AND SIZE.	PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, 1617A.1.26.		XR	EXISTING TO BE RELOCATED
	POWER POLE, WITH NUMBER OF RECEPTABLES INDICATED	THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.		XFMR	EXISTING TO BE REMOVED TRANSFORMER
	DUPLEX RECEPTACLE, PEDESTAL MOUNTED	MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).			
	CEILING MOUNTED DUPLEX RECEPTACLE AT T-BAR CEILING NOT TO BE MOUNTED IN CEILING SPACE.	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.			
	DUPLEX RECEPTACLE, FLUSH FLOOR MOUNTED, WITH HINGED COVER, U.O.N.	OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.			
	CORD SUSPENDED CEILING RECEPTACLE, WITH STRAIN RELIEF ASSEMBLY				
	SURFACE MOUNTED DUPLEX RECEPTACLE, +18" AFF, U.O.N.				
	SURFACE MOUNTED DOUBLE DUPLEX RECEPTACLE +18" AFF, U.O.N.				
	DOUBLE DUPLEX RECEPTACLE, +18" AFF, U.O.N.				
	1-CONTROLLED + 1-UNCONTROLLED DUPLEX RECEPTACLE. CONTROLLED RECEPTACLE TO BE GRAY IN COLOR.				

DSA STAMP

Studio W Architects
424 32nd St Suite D/E,
Newport Beach, CA 92663
[T] 949.774.2920
www.StudioW-Architects.com

3220 Executive Ridge, Suite 210
Vista, CA 92081
760.560.0100
[DB] [T] [F] [NP] [E-Mail] admin@salasobrien.com

#2590-00332
www.salasobrien.com
E-Mail admin@salasobrien.com

ARCHITECT	ENGINEER
DATE SIGNED: 05/09/2026	DATE SIGNED: 06/09/2026

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NO.	REMARKS	DATE

DRAWING STATUS

☒ DSA PLAN CHECK
☐ DSA BACK CHECK
☐ BIDDING
☐ CONSTRUCTION

DATE
04/09/2026

PLACENTIA-YORBA LINDA
UNIFIED SCHOOL
DISTRICT
1301 E ORANGETHORPE AVE
PLACENTIA, CA 92870

DSA SUBMITTAL

GOLDEN ELEMENTARY
SCHOOL
RESTROOM ADDITIONS
740 GOLDEN AVE, PLACENTIA, CA
92870

ELECTRICAL
LEGEND AND
GENERAL NOTES

- UNOBSTRUCTED: WHERE A CLEAR FLOOR OR UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX AND THE LOW FORWARD REACH SHALL BE 15 INCHES MIN ABOVE FINISH FLOOR OR GROUND.
- OBSTRUCTED HIGH REACH: WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION AND THE DEPTH OF THE OBSTRUCTION SHALL BE 25 INCHES MAX. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX FOR A REACH DEPTH OF 25 INCHES MAX. FOR A REACH DEPTH OF 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAX FOR A DEPTH OF 25 INCHES MAX.
- OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX.

Date
04/09/2026

Application Number
04-126322

Drawn
SO

Checked
SO

Project Number
25060

Drawing Number
E0.1

T:\2590-00332-00 - PYLG RRAdd\03- BIM-CAD\Electrical\2590-00332_E0.2.dwg, 4/9/2026 4:03:41 PM, _AutoCAD PDF (General Documentation).pc3

LIGHTING FIXTURE SCHEDULE								
FIXT DES	SYMBOL	LAMP TYPE	FIXTURE MOUNTING	LAMP DESC	WATTS	VOLTS	MFR/CATALOG	DESCRIPTION
(F1)		LED	SURFACE	LED 3500K 3033 LUMENS	24	MVOLT	LITHONIA LIGHTING CSV1 L48 AL03 MVOLT 35K 80CRI WLFEND2	VAPOR TIGHT LED STRIP SURFACE MOUNT LIGHT FIXTURE WITH BALLAST AND INTEGRAL ELECTRONIC DIMMABLE DRIVER.
LIGHTING FIXTURE NOTES: 1. PROVIDE SPECIFIED LIGHTING MANUFACTURER FOR EACH LIGHT FIXTURE. ANY SUBSTITUTIONS SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE LISTED MANUFACTURERS CATALOG NUMBER. SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT.								

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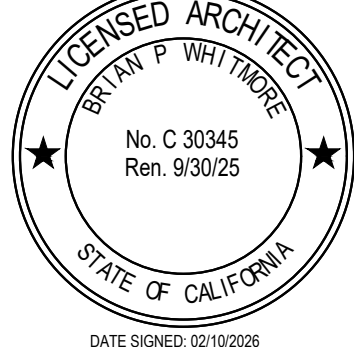
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Newport Beach, CA 92663
[T] 949.774.2920
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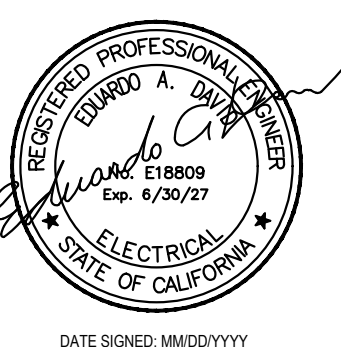
**Salas
O'Brien**
3220 Executive Ridge, Suite 210
Vista, CA 92081
760.560.0100

#2590-00332
www.salasobrien.com
E-Mail admin@salasobrien.com

ARCHITECT



ENGINEER



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REVISION HISTORY	NO.	REMARKS	DATE

DRAWING STATUS

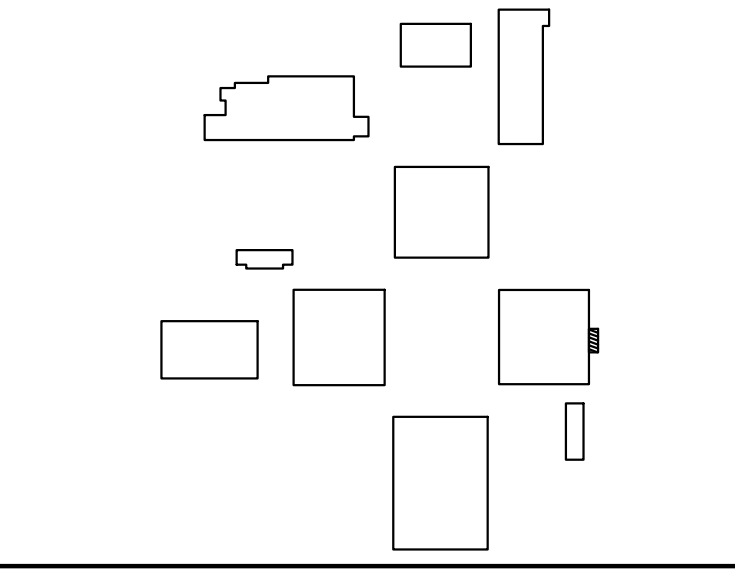
☒ DSA PLAN CHECK

☐ DSA BACK CHECK

☐ BIDDING

☐ CONSTRUCTION

DATE
04/09/2026



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UNIFIED SCHOOL
DISTRICT
1301 E ORANGETHORPE AVE
PLACENTIA, CA 92870

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GOLDEN ELEMENTARY
SCHOOL
RESTROOM ADDITIONS
740 GOLDEN AVE, PLACENTIA, CA
92870

LIGHTING FIXTURE
SCHEDULES

Date
04/09/2026

Application Number
04-125322

Drawn
SO

Project Number
25060

Drawing Number

E0.2

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: Golden ES - Restroom Additions

Report Page: (Page 7 of 7)

Project Address: 740 Golden Ave

Date Prepared: 3/30/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ed David

Documentation Author Signature: 

Company: Salas O'Brien Engineers

Signature Date: 2025-03-30

Address: 3220 Executive Ridge, Suite 210

City/State/Zip: Vista CA 92081

CEA/AAE/ECC Certification Identification (if applicable):

Phone: (760) 560-0100

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: Ed David

Responsible Person Signature: 

Responsible Person Scope:

Company: Salas O'Brien Engineers

Signature Date: 2025-03-30

Address: 3220 Executive Ridge, Suite 210

City/State/Zip: Vista CA 92081

License: E18809

Phone: (760) 560-0100

Generated Date/Time: Documentation Software: EnergyPro

CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

Report Version: 2025.0.000

Schema Version: rev 20250101

Compliance ID: EPR-5511-0326-0091

Report Generated: 2026-03-30 20:30:27

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: Golden ES - Restroom Additions

Report Page: (Page 4 of 7)

Project Address: 740 Golden Ave

Date Prepared: 3/30/2026

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Manual Controls §130.1(a) / §160.5(b)4A	Multi-Level Controls §130.1(b) / §160.5(b)4B	Shut-Off Controls §130.1(c) // §160.5(b)4C	Primary/Sky Light Daylighting §130.1(d) / §160.5(b)4D	Secondary Daylighting §140.6(a)1 / §170.2(a)2	Interlocked Systems §140.6(a)1 / §170.2(a)2	Field Inspector
								Pass Fail
RESTROOM	Restroom	Auth. Personnel	NA: Restrooms	Occupancy Sensor	NA: <= 80 % Lighting Power (alterations only)	NA: <= 80 % LP (alt only)	No	☐ ☐
13								
Plan Sheet Showing Daylit Zones:								

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area CategoryPAF PAF
RESTROOMS	Restroom	0.65	110	71.5	No No
TOTALS:			110	71.5	See Tables I, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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Compliance ID: EPR-5511-0326-0091

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: Golden ES - Restroom Additions

Report Page: (Page 1 of 7)

Project Address: 740 Golden Ave

Date Prepared: 3/30/2026

A. GENERAL INFORMATION

01 Project Location (city)	Placentia	04 Total Conditioned Floor Area (ft²)	110
02 Climate Zone	8	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1
• Support Areas			

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 / §170.2(e) or §141.0(b)2 / §180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces		
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	110	Area Category Method	0
Total Area of Work (ft²)	110		0	

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CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

Report Version: 2025.0.000

Schema Version: rev 20250101

Compliance ID: EPR-5511-0326-0091

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Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: Golden ES - Restroom Additions

Report Page: (Page 5 of 7)

Project Address: 740 Golden Ave

Date Prepared: 3/30/2026

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. ONE-FOR-ONE LUMINAIRE ALTERATIONS

This section does not apply to this project.

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Schema Version: rev 20250101

Compliance ID: EPR-5511-0326-0091

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: Golden ES - Restroom Additions

Report Page: (Page 2 of 7)

Project Address: 740 Golden Ave

Date Prepared: 3/30/2026

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1 / §170.2(e)	Allowed Lighting Power per §140.6(b) / §170.2(e) (Watts)				Adjusted Lighting Power per §140.6(a) / §170.2(e) (Watts)			Compliance Results
	01	02	03	04	05	06	07	
	Complete Building §140.6(c)1	Area Category §140.6(c)2 / §170.2(e)4	Area Category Additional §140.6(c)2 / §170.2(e)4Av (+)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 / §170.2(e)1B (1)		
(See Table I)	(See Table I)	(See Table J)		72	≥ 48	0	= 48	05 must be >= 08 §140.6 / §170.2(e)
Conditioned		71.5	0	=	≥		=	COMPLIES
Unconditioned				=	≥		=	COMPLIES
Controls Compliance (See Table H for Details)								
One-for-one Luminaire Alterations Compliance (See Table Q for Details)								

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance

Report Version: 2025.0.000

Schema Version: rev 20250101

Compliance ID: EPR-5511-0326-0091

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: Golden ES - Restroom Additions

Report Page: (Page 6 of 7)

Project Address: 740 Golden Ave

Date Prepared: 3/30/2026

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

Indoor lighting alteration spaces complying prescriptively with §141.0(b)2(i) / §180.2(b)4Bv are included in this table to document the power reduction. If the Percent of Indoor Lighting Power Allowance exceeds 80%, the compliance status in Table C for Controls will say "DOES NOT COMPLY".

01	02	03	04	05	06	07	08	09
Area Description	Complete Building or Area Category Primary Function Area	Area (ft²)	ALLOWED ALLOWANCE (Watts)	Allowed Density (W/ft²)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Total Design Watts
Total Allowance (Watts) for all Areas:			Total Design Watts for all Areas:					
			Percent of Indoor Lighting Power Allowance:					

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

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Report Version: 2025.0.000

Schema Version: rev 20250101

Compliance ID: EPR-5511-0326-0091

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-4

Project Name: Golden ES - Restroom Additions

Report Page: (Page 3 of 7)

Project Address: 740 Golden Ave

Date Prepared: 3/30/2026

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table I. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10
Name or Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per Luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3 / §170.2(e)2C	Design Watts	Field Inspector
F1	F1 - VAPOR TIGHT LED STRIP LIGHT	No	NA	24	Mfr. Spec	2	No	48	Pass Fail
Total Designed Watts: CONDITIONED SPACES								48	

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B / §170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

01	02	03
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c) / §160.5(b)4C	Field Inspector
Required >= 4,000W subject to multilevel	See Area/Space Level Controls (Column 8)	Pass Fail
		☐ ☐

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Schema Version: rev 20250101

Compliance ID: EPR-5511-0326-0091

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Studio W Architects
424 32nd St Suite D/E,
Newport Beach, CA 92663
[T] 949.774.2920
www.StudioW-Architects.com

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NO.	REMARKS	DATE

DRAWING STATUS

☒ DSA PLAN CHECK

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PLACENTIA, CA 92870

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740 GOLDEN AVE, PLACENTIA, CA
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TITLE 24

Date

04/09/2026

Application Number

04-125322

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Project Number

25060

Drawing Number

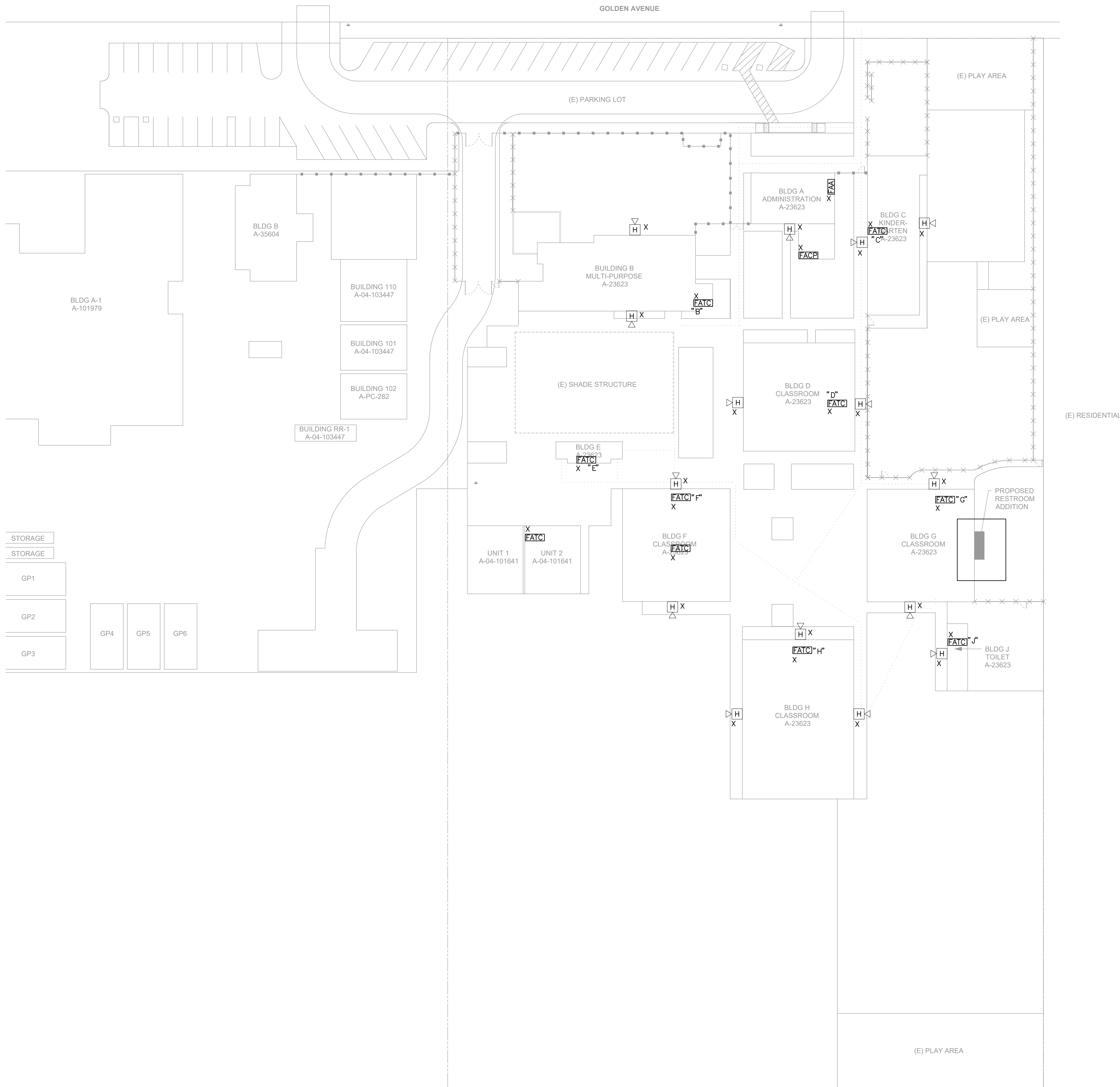
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GENERAL NOTES

- A. CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ALL OTHER TRADES. IN CASE OF DISCREPANCIES OR ANY POTENTIAL CONFLICTS, INFORM THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

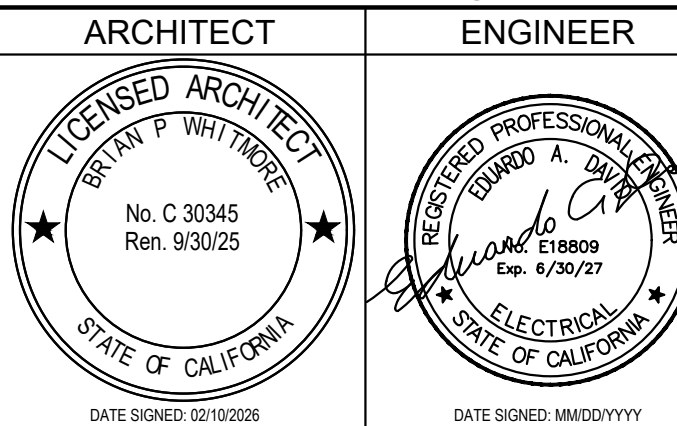
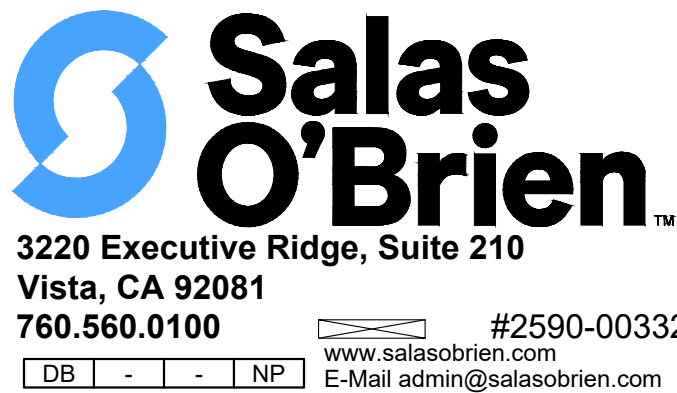
KEY NOTES

1 --

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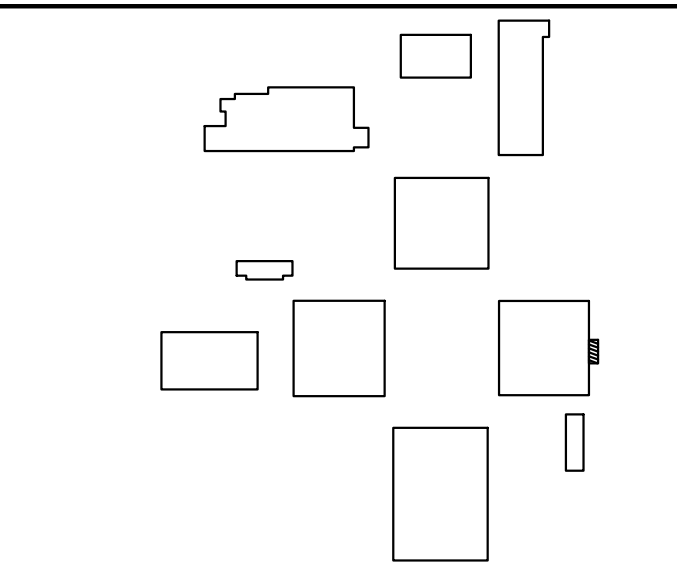
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ELECTRICAL
SITE PLAN

Date 04/09/2026	Project Number 25060
Application Number 04-125322	Drawing Number E1.1
Drawn SO	Checked SO

ELECTRICAL SITE PLAN

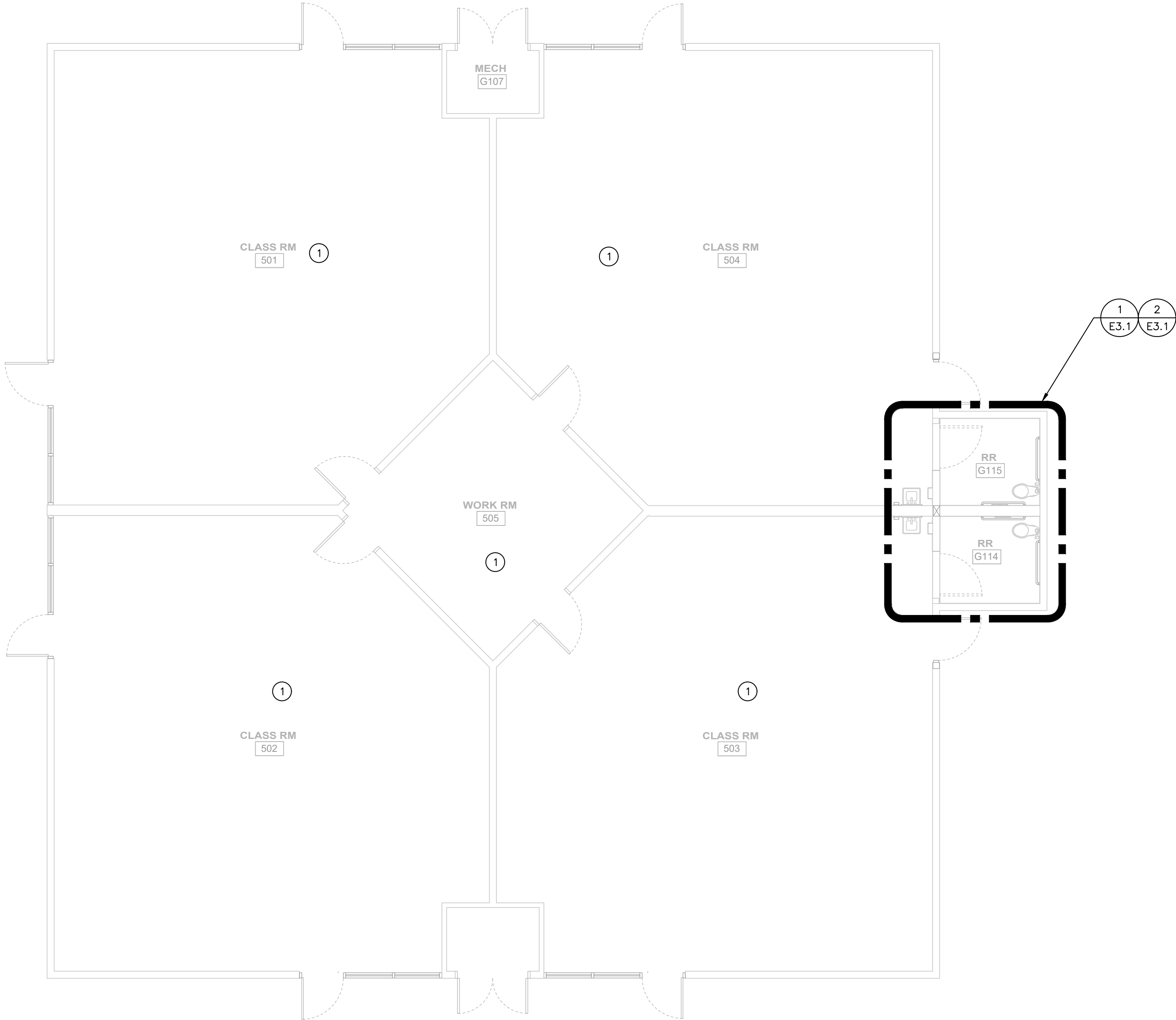
1/32" = 1'-0"

1

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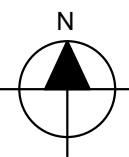


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KEY NOTES

① ARE NOT PART OF THIS SCOPE OF WORK. ALL EXISTING TO REMAIN.



ELECTRICAL FLOOR PLAN

3/16" = 1'-0"

1

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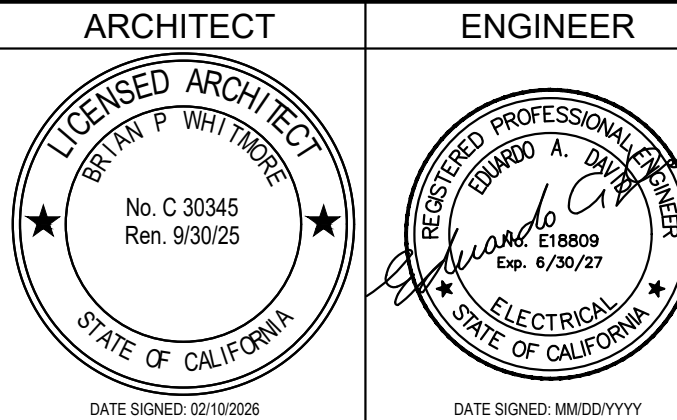


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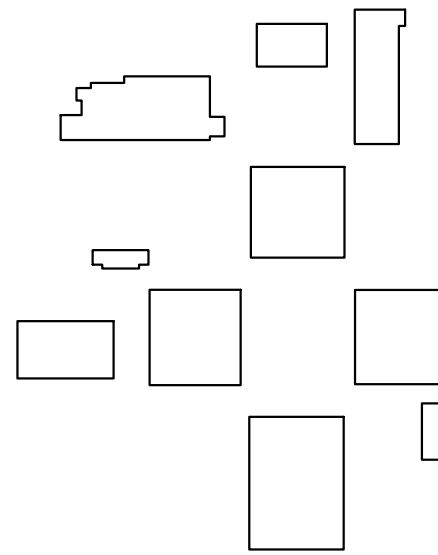
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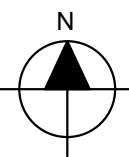
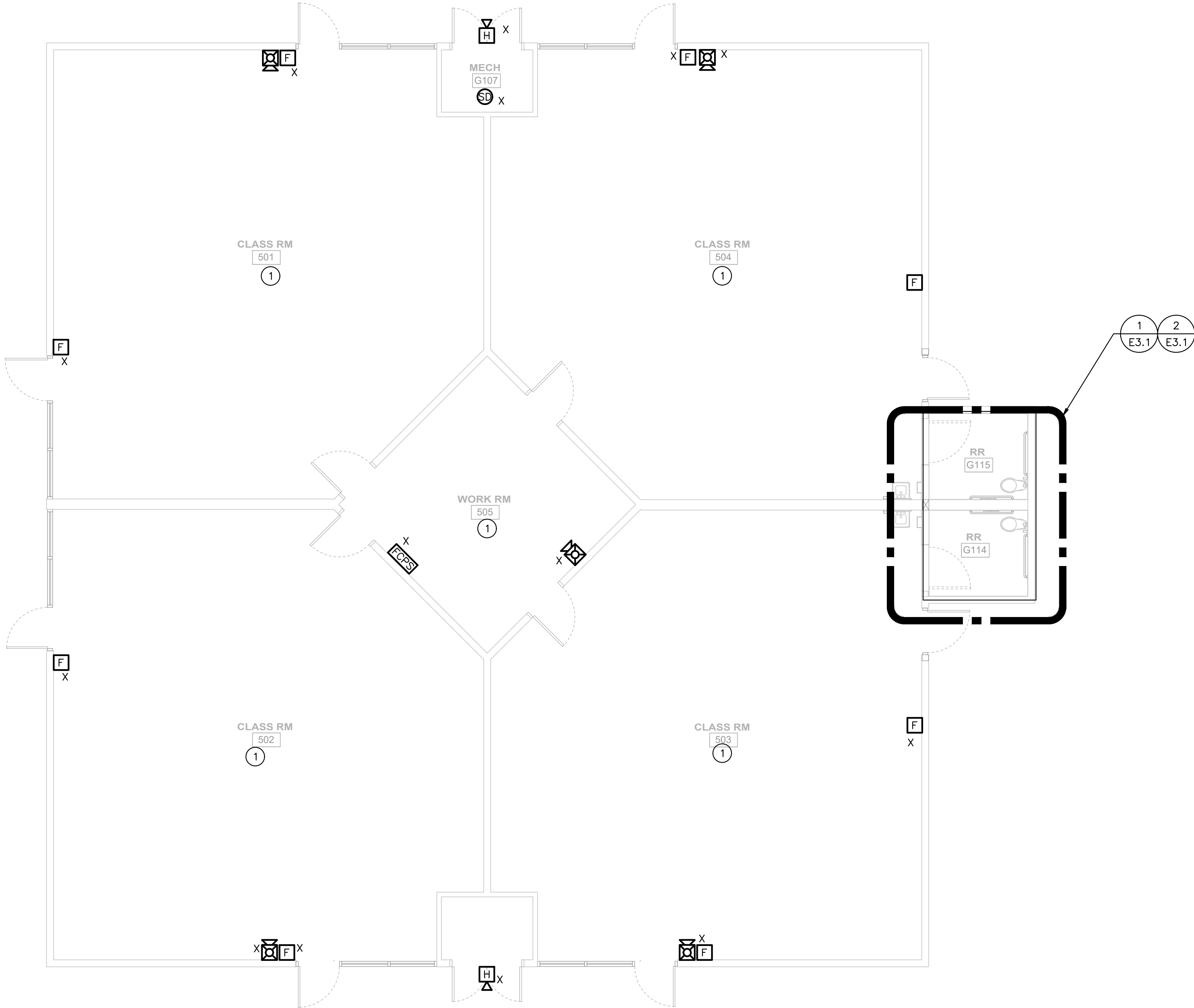
ELECTRICAL
FLOOR PLAN

Date 04/09/2026	Project Number 25060
Application Number 04-125322	Drawing Number E2.1
Drawn SO	Checked SO

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KEY NOTES

- ① EXISTING FIRE ALARM TO REMAIN.

SIGNAL FLOOR PLAN

3/16" = 1'-0"

①

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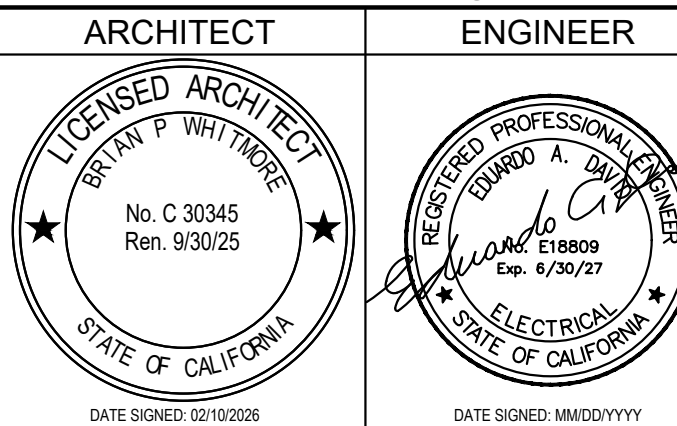
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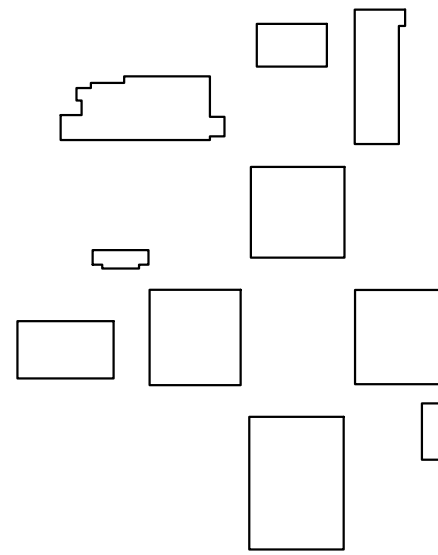
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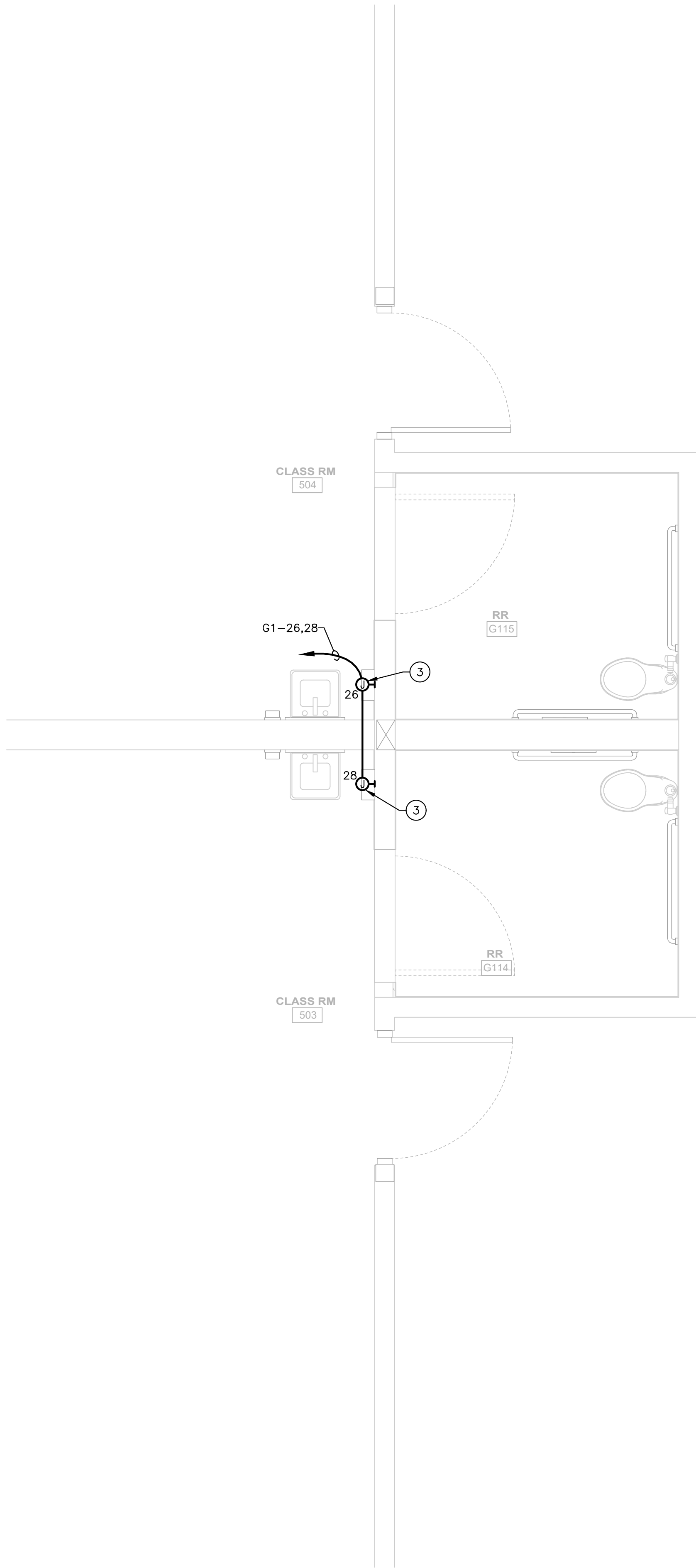
SIGNAL
FLOOR PLAN

Date 04/09/2026	Project Number 25060
Application Number 04-125322	Drawing Number E2.2
Drawn SO	Checked SO

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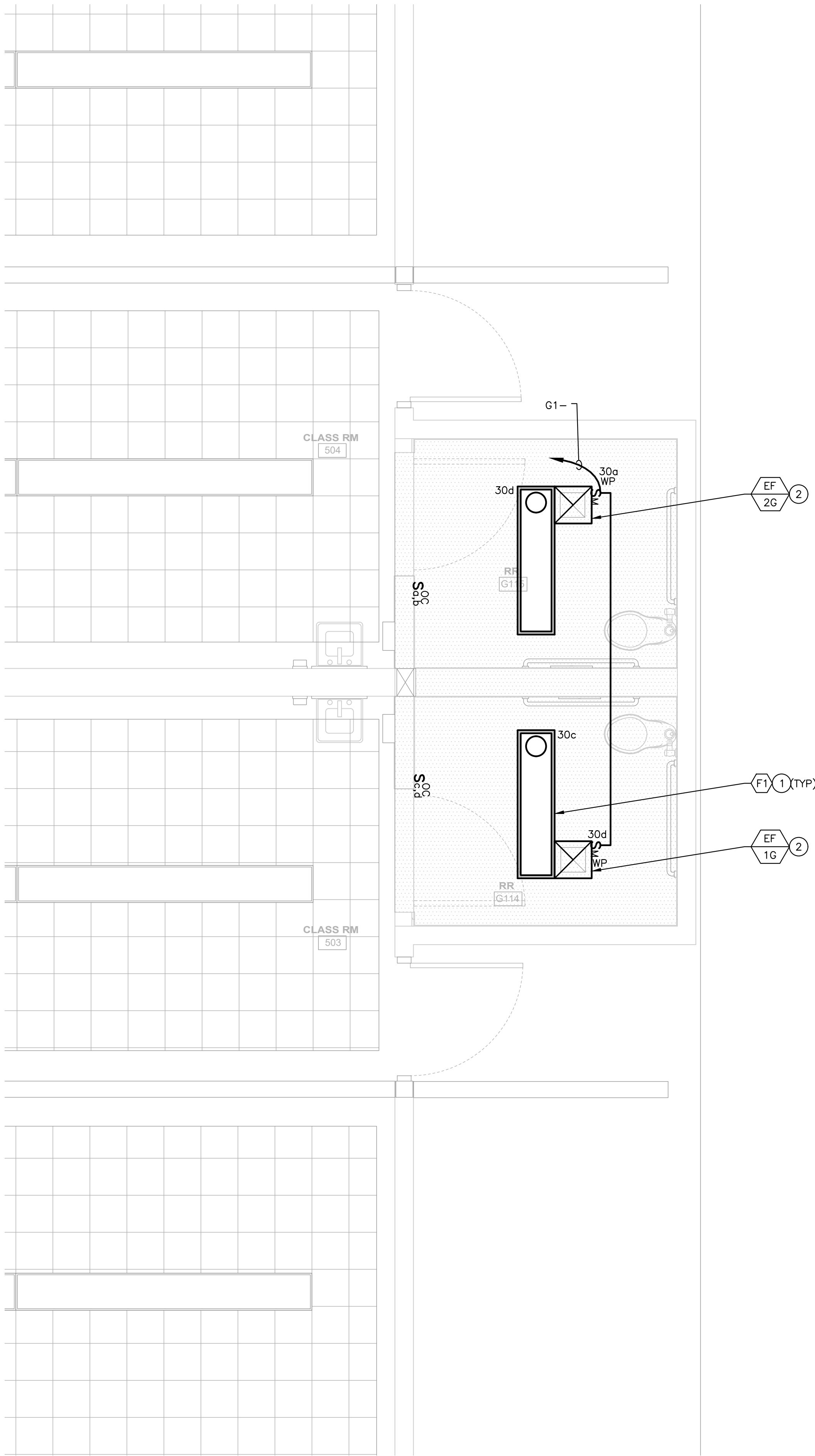
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POWER FLOOR PLAN

1/2" = 1'-0"

2



LIGHTING FLOOR PLAN

1/2" = 1'-0"

1

GENERAL NOTES

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- CONTRACTOR MUST VERIFY EXACT QUANTITIES, LOCATIONS AND HEIGHTS OF ALL FIXTURES WITH TENANT AND ARCHITECT PRIOR TO START OF WORK.
- ALL LIGHTING TO BE CONNECTED TO PANEL 'G1', CIRCUIT NUMBER(S) AS SHOWN.
- ALL FIXTURES PROVIDED WITH EGRESS LIGHTING BATTERY PACK. BACK-UP MUST BE FED FROM UNSWITCHED CIRCUIT SERVING LIGHTING IN SAME AREA PER NEC ARTICLE 700.12(F). EMERGENCY BATTERY PACK MUST BE ACTIVATED ONLY UPON NORMAL POWER FAILURE.
- CONTRACTOR MUST VERIFY EXACT QUANTITIES, LOCATIONS AND HEIGHTS OF ALL OUTLETS WITH TENANT AND ARCHITECT PRIOR TO START OF WORK.
- CONTRACTOR MUST FIELD VERIFY AND COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND REQUIREMENTS PRIOR TO START OF WORK.
- MECHANICAL EQUIPMENT FUSE SIZE RATINGS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- ALL MECHANICAL EQUIPMENT FUSIBLE DISCONNECTS AND MOTOR RATED SWITCHES EXPOSED TO WEATHER MUST BE WEATHERPROOF RATED.

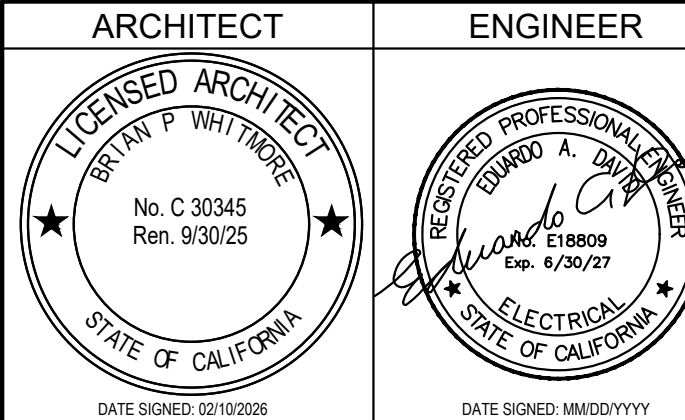
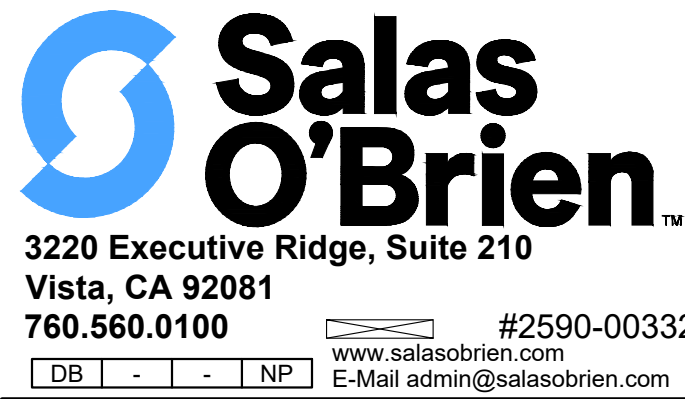
KEY NOTES

- PROVIDE NEW VAPOR TIGHT LED LIGHT FIXTURE. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT. PROVIDE AND CONNECT NEW LIGHTING FIXTURE TO CEILING MOUNT MOTION SENSOR COMPLY WITH CALIFORNIA TITLE 24 LIGHTING CONTROLS.
- INTERLOCK MECHANICAL EXHAUST FAN WITH LIGHT SWITCH.
- JUNCTION BOX FOR HAND DRYER. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO START OF WORK.

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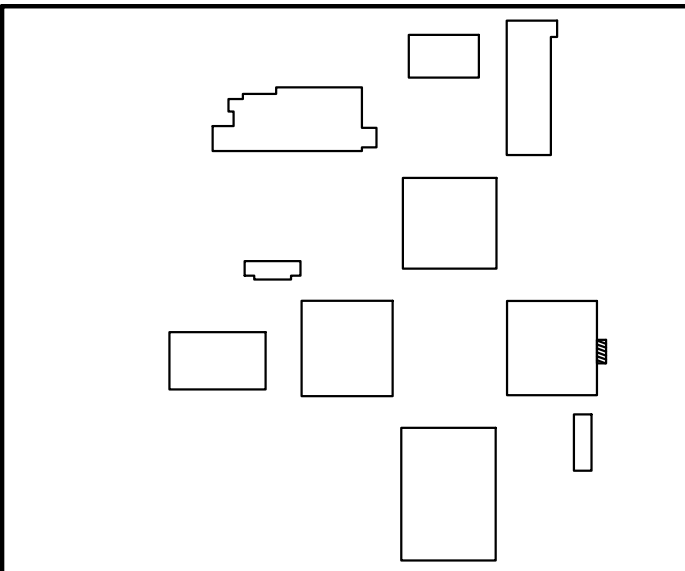
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ELECTRICAL
ENLARGED
FLOOR PLANS

Date 04/09/2026	Project Number 25060
Application Number 04-125322	Drawing Number E3.1
Drawn SO	Checked SO

GENERAL NOTES

1. APPLICABLE STANDARD, 2022 NFPA 72.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE CITY OF CHICAGO.
3. UPON COMPLETION OF THE SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. STAMPED SET OF THE DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL ACCEPTANCE TEST.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CERTIFICATION. THE TYPE OF PENETRATION SHALL BE IDENTIFIED ON THE DRAWINGS WITH THE FIRE ALARM SECTION.
8. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 60" MINIMUM AND 100" MAXIMUM.
9. AUDIBLE DEVICES TO BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT 10 FEET OR EXCEED 110 dBA AT ANY LOCATION. SOUND LEVEL SHALL BE MAINTAINED FOR DURATION OF AT LEAST 60 SECONDS.
10. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
11. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
12. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND NOT BE SLOWER THAN 1 FLASH EVERY SECOND FOR APPLICATIONS INVOLVING HAND SIGNALING. LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITH 55" FROM EACH OTHER SHALL BE SYNCHRONIZED.
13. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.
14. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POSER LIMITED PLENUM) AS REQUIRED FOR APPLICATION INVOLVING HAND SIGNALING. GROUND WIRE BE THINN OR THIN.
15. PER CFC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTION DIRECTLY TO EACH FIRE DEVICE, DO NOT SPUCE THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES MUST BE PROTECTED.
16. SMOKE DETECTORS SHALL NOT BE CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER, IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE MAINTAINED UNTIL THE PROJECT IS COMPLETED.
17. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN DRAIN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS. ALL FIRE ALARM CIRCUITS SHALL BE IDENTIFIED ON DESIGN DOCUMENTS, EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
18. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICES SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
19. REMOTE BREAKER CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED TO INDICATE THE CIRCUIT IS FOR FIRE ALARM EQUIPMENT.
20. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.8.1.2.1.
21. CONTROL PANELS, REMOTE ANNUNCIATOR SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" TO THE INSTALLED LOWEST DECK OR FLOOR FINISH. THE ANNUNCIATOR SHALL BE MONITORING PER CBC SECTION 901.6.2.
22. ENVIRONMENTAL MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONFORMANCE WITH FINAL ACCEPTANCE TEST.
23. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS FOR EVALUATION OF MONITORING ACCESSIBILITY SHALL COMPLY WITH CBC 11B-308 AND 11B-309.
24. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISOR, AND DSA TO THE CITY OF CHICAGO. THE MONITORING SHALL BE PROVIDED BY THE CITY OF CHICAGO. PER CBC CHAPTER 80, THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJWF (CENTRAL STATION) OR UJWS (REMOTE & PROPRIETARY) BY UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL BE LISTED BY THE CITY OF CHICAGO. THE REQUIREMENTS FOR MONITORING PER 901.6.1 TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH CBC/CFC SECTION 907.6.2.

1. THE FIRE ALARM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE.
2. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION (FIRE MARSHAL). THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEST EQUIPMENT (e.g. DIGITAL AMMETER, DECIBEL METER) AND VERIFY THAT THE GROUND FAULT DETECTION FOR THE FIRE ALARM SYSTEM IS OPERATIONAL DURING TESTING AND REMAINS SO ONCE THE SYSTEM IS APPROVED. UPON APPROVAL OF THE FIRE ALARM SYSTEM, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE SET OF OPERATING INSTRUCTIONS FOR THE SYSTEM.
3. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED PRIOR TO ANY INSPECTION AND/OR TEST.
4. AN APPROVED, STAMPED SET OF THE FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATIONS FROM THE APPROVED PLANS, INCLUDING SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE FIRE MARSHAL.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
6. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
7. A "RECORD OF COMPLETION" SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.
8. ALL TERMINAL CABINETS AND JUNCTION BOXES SHALL BE CLEARLY MARKED THAT THE ENCLOSURE IS PART OF THE FIRE ALARM SYSTEM.
9. THE CONTRACTOR SHALL LOCATE ALL SMOKE DETECTION DEVICES A MINIMUM OF 36" FROM ANY MECHANICAL REGISTERS.
10. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. MILE LENGTHS USED TO CALCULATE VOLTAGE DROPS REPRESENT ESTIMATES BASED ON MEASUREMENTS OF SCALED FLOOR PLAN DRAWINGS. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS REQUIRE. CONTRACTOR TO INSTALL ALL DEVICES ACCORDING TO MANUFACTURERS INSTRUCTIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES.
11. CONTRACTOR SHALL VERIFY LOCATION OF POST INDICATOR VALVES (PIV'S) AND/OR OUTSIDE STEM & YOKE (OS&Y) VALVES INSTALLED ON FIRE SPRINKLER SERVICE. CONTRACTOR SHALL PROVIDE AND INSTALL TAMPER SWITCH(ES) AT EACH OF THESE VALVES AND INTERCONNECT TAMPER SWITCH(ES) TO THE FIRE ALARM CONTROL PANEL (FACP).

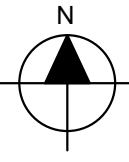
WIRE LEGEND				
SYMBOL	WIRE SIZE	MANUFACTURER	MODEL NO.	DESCRIPTION
(A)	(2)#16	WEST PENN	D975	INDOOR SHIELDED TWISTED PAIR (INITIATION CIRCUIT)
(B)	(2)#12	WEST PENN	D999	INDOOR BLACK/RED (HORN/STROBE SIGNAL)
(C)	(2)#16	WEST PENN	D991	OUTDOOR SHIELDED TWISTED PAIR (INITIATION CIRCUIT)

[illegible]

FIRE ALARM DEVICE LEGEND				
SYMBOL	DESCRIPTION	MOUNTING/BACKBOX/RING		
	EXISTING FIRE ALARM CONTROL PANEL MANUFACTURER: GAMEWELL FCI MODEL: E3 DSA # 04-101809	—		EXISTING
	EXISTING LCD ANNUNCIATOR MANUFACTURER: GAMEWELL FCI DSA # 04-101809	—		EXISTING
	EXISTING PULL STATION MANUFACTURER: GAMEWELL FCI DSA # 04-101809	—		EXISTING
	NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY MANUFACTURER: GAMEWELL FCI DSA # 04-101809	—		EXISTING
	ADDRESSABLE SMOKE DETECTOR MANUFACTURER: GAMEWELL FCI MODEL: ASD-PL2F/B210LP SMOKE CSFM # 7272-1703; 121 BASE CSFM # 7300-1653; 0213	4 SQUARE DEEP BOX WITH 3-0 RING MOUNT 3' AWAY FROM ANY AIR MOVEMENT SYSTEMS		
	ADDRESSABLE RATE OF RISE HEAT DETECTOR AND BASE MANUFACTURER: GAMEWELL FCI MODEL: FST-951 (BASE) B200S-IV HEAT CSFM # 7270-0028; 0502 BASE CSFM # 7300-1653; 0213	4 SQUARE DEEP BOX WITH 3-0 RING		
	HORN/STROBE MANUFACTURER: SYSTEM SENSOR MODEL: P2WL CSFM # 7125-1653; 0504	4 SQUARE DEEP BOX WITH EXTENSION TAP	15cd: 0 30cd: 0 75cd: 0 95cd: 0	
X	EXISTING DEVICE TO REMAIN			
XR	EXISTING DEVICE TO BE REMOVED AND REPLACED			
	15cd – REPRESENTS CANDELA INTENSITY			
	SX – REPRESENTS NAC CIRCUIT NUMBER			
	VX – REPRESENTS SPEAKER CIRCUIT NUMBER			
	L1 – REPRESENTS SLC NUMBER			

SYMBOL	DESCRIPTION
	FIRE ALARM TERMINAL CABINET WITH PLYWOOD BACKBOARD
CONDUIT LEGEND	
	CONDUIT CONCEALED IN WALL OR CEILING SPACE, UNLESS OTHERWISE NOTED
	CONDUIT CONCEALED UNDER FLOOR OF SLAB OR UNDERGROUND, UNLESS OTHERWISE NOTED
	FIRE ALARM WEATHERPROOF PULL BOX.

_____	CONDUIT CONCEALED IN WALL OR CEILING SPACE, UNLESS OTHERWISE NOTED
-----	CONDUIT CONCEALED UNDER FLOOR OF SLAB OR UNDERGROUND, UNLESS OTHERWISE NOTED
	FIRE ALARM WEATHERPROOF PULL BOX.


$$1/2" = 1'-0"$$

1

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B. ALL WORK SHOWN LIGHT IS EXISTING, ALL WORK SHOWN DARK IS NEW UNLESS NOTED OTHERWISE.

C. ALL DRAWINGS ARE DIAGRAMMATICALLY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CAPTURE THE INTENT OF THE DRAWINGS.

- ① INTERCEPT AND EXTEND TO EXISTING NOTIFICATION DEVICE.
- ② INTERCEPT AND EXTEND TO EXISTING SIGNALING DEVICE.



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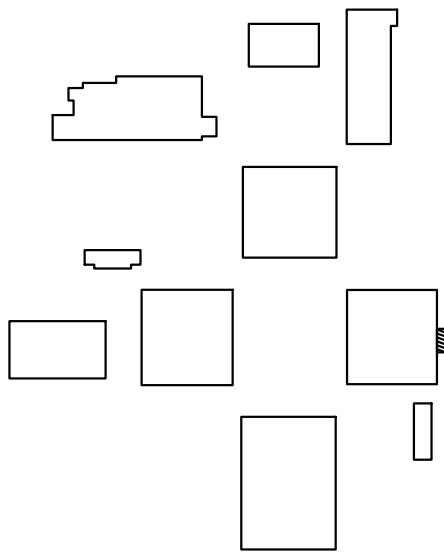
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GENERAL NOTES

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FIRE ALARM
ENLARGED
FLOOR PLAN

Date _____

04/09/2026

Application Number

04-125322

Project Number

25060

Drawing Number

500

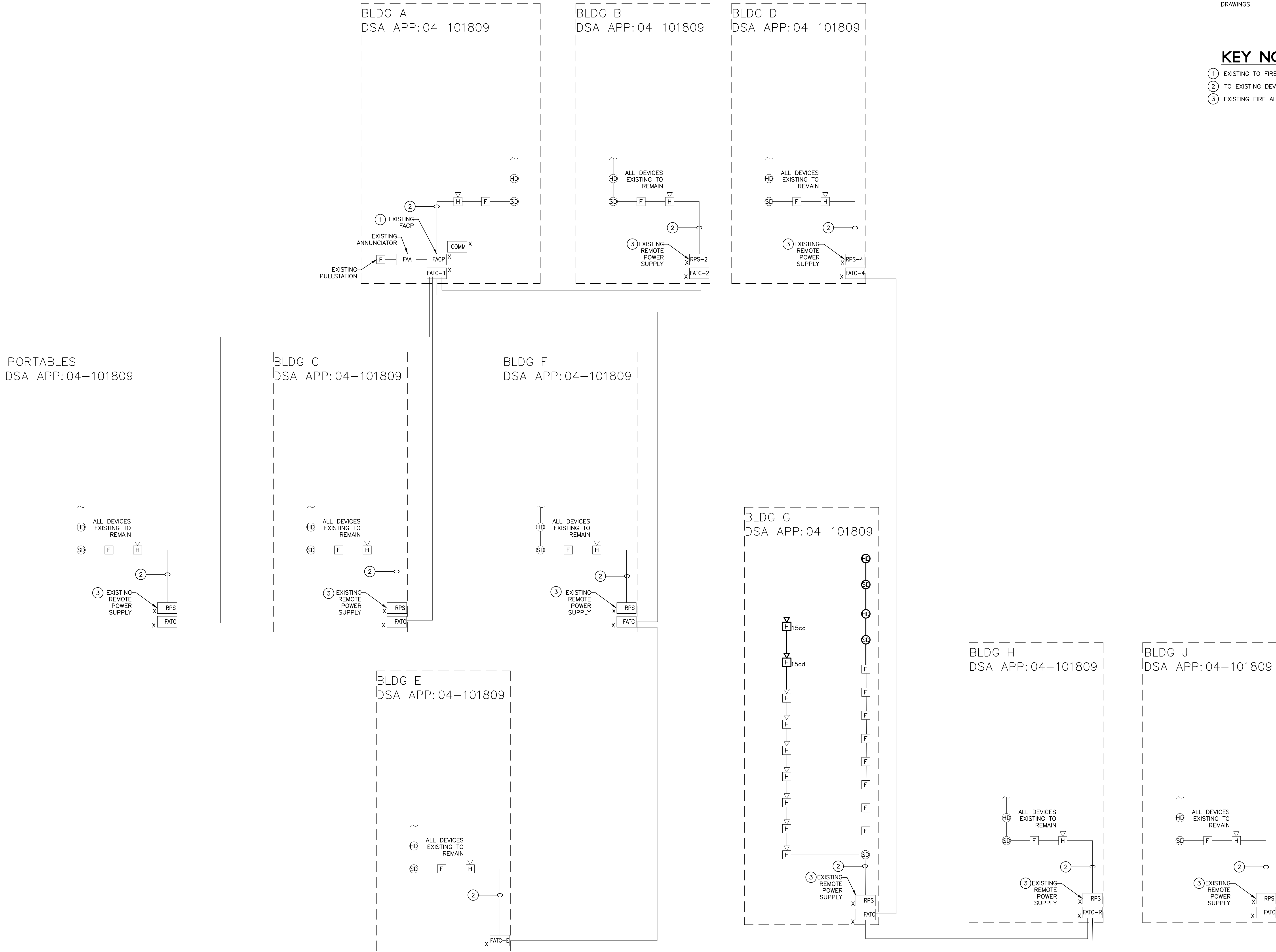
E3.2

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- B. ALL WORK SHOWN LIGHT IS EXISTING, ALL WORK SHOWN DARK IS NEW UNLESS NOTED OTHERWISE.
- C. ALL DRAWINGS ARE DIAGRAMMATICALLY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CAPTURE THE INTENT OF THE DRAWINGS.

KEY NOTES

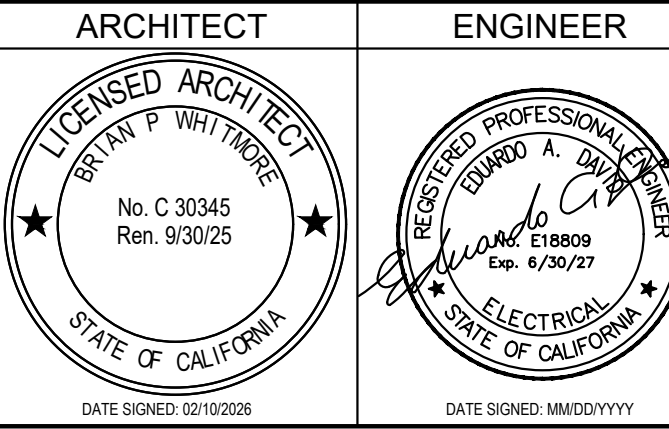
- ① EXISTING TO FIRE ALARM CONTROL PANEL SIMPLEX 41004
- ② TO EXISTING DEVICES.
- ③ EXISTING FIRE ALARM EXPANSION POWER SUPPLY.



DSA STAMP



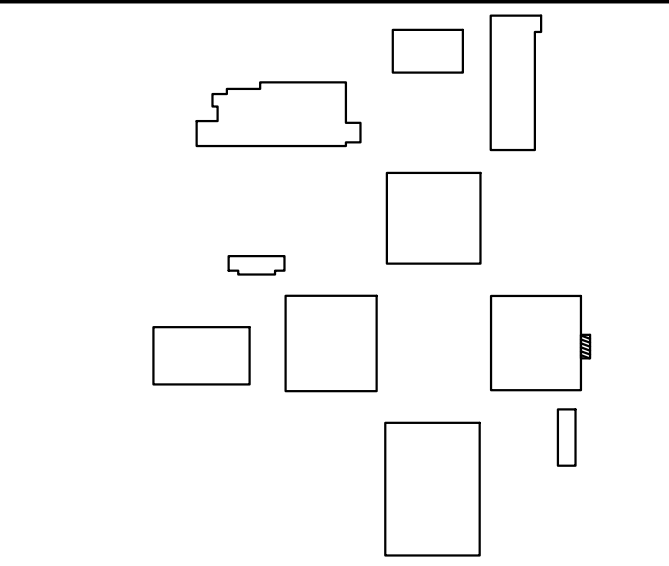
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NO.	REMARKS	DATE

DRAWING STATUS	DATE
☒ DSA PLAN CHECK	04/09/2026
☐ DSA BACK CHECK	
☐ BIDDING	
☐ CONSTRUCTION	



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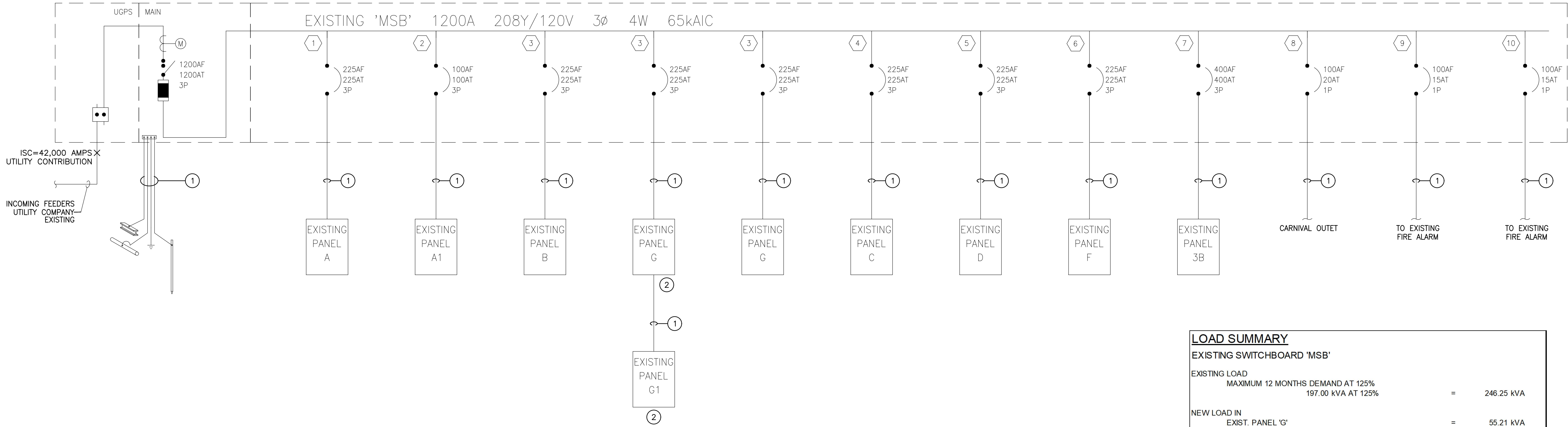
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FIRE ALARM
RISER DIAGRAM

Date 04/09/2026	Project Number 25060
Application Number 04-125322	Drawing Number E3.3
Drawn SO	Checked SO

BATTERY CAPACITY CALCULATION SHEET						
EXISTING NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY						
JOB: GOLDEN ELEMENTARY SCHOOL RESTROOM ADDITIONS						
DATE: 04/07/2026						
RPS						
QTY	MODEL #	DESCRIPTION	STANDBY UNIT CURRENT (AMPS)	STANDBY TOTAL CURRENT (AMPS)	ALARM UNIT CURRENT (AMPS)	ALARM TOTAL CURRENT (AMPS)
1	PS	NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY	0.048	0.048	0.048	0.048
2	HRK	EXTERIOR HORNS	0.059	0.118	0.059	0.118
3	EXIST.	15d HORN/STROBE	0.105	0.315	0.105	0.315
4	EXIST.	110cd HORN/STROBE	0.220	0.880	0.220	0.880
4	EXIST.	INDOOR HORN	0.015	0.060	0.015	0.060
2	ASD-PL3	SMOKE DETECTORS	0.0003	0.001	0.0065	0.013
2	ATD-L3	ATTIC HEAT DETECTORS	0.0003	0.001	0.0065	0.013
TOTAL				1.422		1.447
BATTERY CALCULATIONS						
=====						
ASSUMPTIONS:						
A) REQ'D BATTERY BACKUP - STANDBY			24	HRS		
B) REQ'D BATTERY BACKUP - ALARM			15	MIN	(0.25	HOURS)
C) ALLOWABLE ERROR			25%			
D) TOTAL STANDBY BACKUP (AMP/HOURS)			34.13			
E) TOTAL ALARM BACKUP			0.36			
F) ALLOWABLE ERROR (C X (D+E))			8.62			
TOTAL AMP/HR REQ'D (D+E+F)			43.12 AMP/HR			
BATTERY AMP HOUR RATING: 14 AMP/HOUR						
QUANTITY OF BATTERIES: 2						
VOLTAGE: 12 VOLTS						
BATTERY CHARGER COMPACITY: 36AH						
BATTERY TYPE: SEALED LEAD - ACID						
WIRING CONFIGURATION FOR BATTERY: SERIES						

VOLTAGE LINE LOSS CALCULATIONS									
JOB: GOLDEN ELEMENTARY SCHOOL									
DATE: 04/07/2026									
VOLTAGE LINE LOSS FORMULA:									
(A) X (F) X (C) / (D) / (E) = % LINE LOSS									
(A) AMPS					OTHER DATA				
-----					-----				
15cd HORN/STROBE					(B) WIRE GAUGE				
30cd HORN/STROBE					(C) WIRE RESISTANCE				
110cd HORN/STROBE					(D) CIRCULAR MILLS				
INDOOR HORN					(E) VOLTS (DC)				
WP HORN					(F) LINE WIRE FOOTAGE (PER CIRCUIT)				



GENERAL NOTES

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- B. ALL WORK SHOWN LIGHT IS EXISTING, ALL WORK SHOWN DARK IS NEW UNLESS NOTED OTHERWISE.

KEY NOTES

- 1 EXISTING FEEDERS TO REMAIN.
- 2 EXISTING PANEL WITH NEW LOADS ADDED.

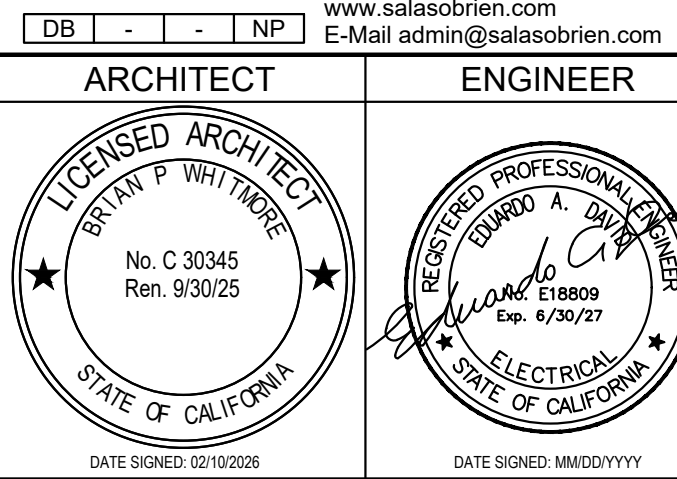


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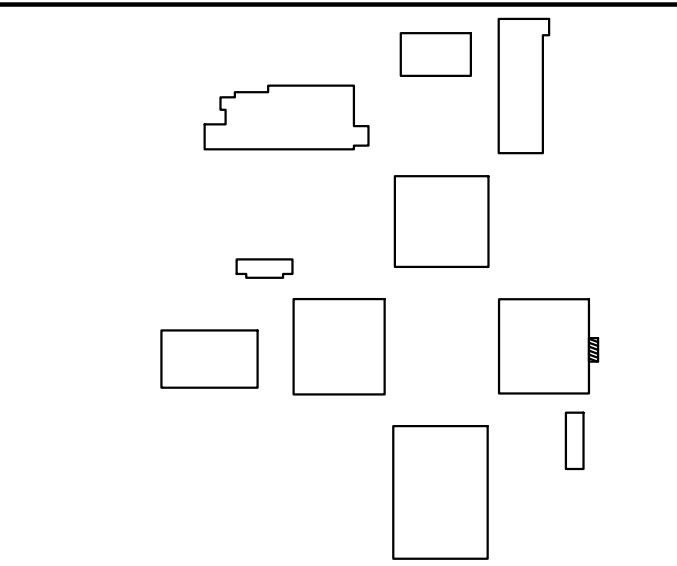
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NO	REMARKS	DATE

DATE
04/09/2026



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SINGLE LINE DIAGRAM
AND LOAD SUMMARY

Date 04/09/2026	Project Number 25060
As of 04-125332	Drawing Number E4.1
Drawn SO	Checked SO

SINGLE LINE DIAGRAM

NO SCALE

1

PANEL: G EXIST.		LOCATION: SEE PLANS		MAIN: 225A/3P		BUS: 225A		NEMA 1						
VOLTAGE: 208 / 120		AIC RATING: 14000		FEED: BOTTOM		MTG: SURFACE								
PHASE: 3		CIRCUIT CODE:												
WIRE: 4		blank=NON-CONTINUOUS, N=NON-COINCIDENTAL, L=LONG CONTINUOUS, R=RECEPT (NEC ART. 220-44), K=KITCHEN												
NOTE	DESCRIPTION	CODE	BKR	P	#	VA	PHASE	VA	#	P	BKR	CODE	DESCRIPTION	NOTE
	1 LIGHT RM G102		20	1	1	1440	A	1440	2	1	20		LIGHTS RM G103	1
	1 LIGHT RM G102		20	1	3	1440	B	1440	4	1	20		LIGHTS RM G103	1
	FC-3, HP-3		30	2	5	1659	C	540	6	1	20		RECEPTACLES	1
					7	1659	A	360	8	1	20		RECEPTACLES	1
1	SPARE		20	1	9		B	600	10	1	20		NIGHT LIGHTS	1
	TIME SWITCH		20	1	11	200	C	240	12	1	20		LIGHTS RM G105	1
	1/3HP SUPPLY FAN		20	1	13	700	A	700	14	1	20		1/3HP SUPPLY FAN	1
	1/3HP SUPPLY FAN		20	1	15	700	B	700	16	1	20		1/3HP SUPPLY FAN	1
	2-TIME SWITCH		20	1	17	400	C	1290	18	1	20		2-1/4HP EXHAUST FAN	1
	2-1/2HP EXHAUST FAN		20	1	19	600	A	540	20	1	20		RECEPTACLES	1
	SPARE				21		B	360	22	1	20		RECEPTACLES	1
	SPARE				23		C		24	1	20		SPARE	1
1	HVAC		50	3	25	2400	A	2400	26	3	50		HVAC	1
-					27	2400	B	2400	28				-	
-					29	2400	C	2400	30				-	
1	HVAC		50	3	31	2400	A	2400	32	3	50		HVAC	1
-					33	2400	B	2400	34				-	
-					35	2400	C	2400	36				-	
3	SUB PANEL G1		100	3	37	3660	A		38				SPARE	
					39	3240	B		40				SPARE	
					41		C	500	42	1	20		FA/POWER SUPPLY	1
CONNECTED VA @ A		20699	CONNECTED VA ()		53208	PANEL CONN AMPS WITH LCL		147.69	PANEL DEMAND KVA WITH LCL		53.21			
CONNECTED VA @ B		18080	CONNECTED VA (L)		0	CONNECTED VA WITH LCL (L)		0	PANEL DEMAND AMPS WITH LCL		147.69			
CONNECTED VA @ C		14429	CONNECTED VA (R)		0	DEMAND VA (R)		0	PANEL CONNECTED AMPS		147.69			
TOTAL VA		53208	CONNECTED VA (K)		0	DEMAND VA (K)		0	DEMAND HIGH @ AMPS WITH LCL		172.36			
1 EXISTING LOAD TO REMAIN 6 SPECIAL NOTES:														
2 PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OF 7														
3 SAME TYPE, SIZE AND AIC RATING AS EXISTING 8														
9 EXISTING CIRCUIT BREAKER WITH REVISED LOAD 9														
10 10														

PANEL: G1 EXIST.		LOCATION: SEE PLANS		MAIN: 100A/3P		BUS: 225A NEMA 1								
VOLTAGE: 208 / 120		AIC RATING: 14000		FEED: BOTTOM		MTG: SURFACE								
PHASE: 3		CIRCUIT CODE:												
WIRE: 4		blank=NON-CONTINUOUS, N=NON-COINCIDENTAL, L=LONG CONTINUOUS, R=RECEPT (NEC ART. 220-44), K=KITCHEN												
NOTE	DESCRIPTION	CODE	BKR	P	#	VA	PHASE	VA	#	P	BKR	CODE	DESCRIPTION	NOTE
1	RM G101 PRINTER		1	20	1	1	180	A	180	2	1	20	RM G102 PRINTER	1
1	RM G101 COMPUTER		1	20	1	3	360	B	360	4	1	20	RM G102 COMPUTERS	1
1	RM G101 COMPUTER		1	20	1	5	360	C	360	6	1	20	RM G102 COMPUTERS	1
1	RM G101 TEACHER STATION		1	20	1	7	540	A	540	8	1	20	RM G102 TEACHER STATION	1
1	RM G104 PRINTER		1	20	1	9	180	B	180	10	1	20	RM G103 PRINTER	1
1	RM G104 COMPUTERS		1	20	1	11	360	C	360	12	1	20	RM G103 COMPUTER	1
1	RM G104 COMPUTERS		1	20	1	13	360	A	360	14	1	20	RM G103 COMPUTER	1
1	RM G104 TEACHER STATION		1	20	1	15	540	B	540	16	1	20	RM G103 TEACHER STATION	1
1	RM G105 WORKROOM		1	20	1	17	500	C	500	18	1	20	RM G105 WORKROOM	1
1	RM G105 WORKROOM		1	20	1	19	500	A	500	20	1	20	RM G105 WORKROOM	1
1	COMU, RECEPT, G101 & G102		1	20	1	21	500	B	180	22	1	20	COMU, RECEPT, ROOF REC	1
1	IDF RM G105		1	20	1	23	720	C		24	1	20	SPARE	
1	RM G105 PRINTER		1	20	1	25	500	A	1000	26	1	20	HAND DRYER	2
	SPARE		1	20	1	27	400	B	1000	28	1	20	HAND DRYER	2
	SPARE		1	20	1	29		C	100	30	1	20	LIGHTS/MECH EXHAUST FANS	2
	SPACE				1	31		A		32			SPACE	
	SPACE				1	33		B		34			SPACE	
	SPACE					35		C		36			SPACE	
	SPACE					37		A		38			SPACE	
	SPACE					39		B		40			SPACE	
	SPACE					41		C		42			SPACE	
CONNECTED VA @ A		4660	CONNECTED VA ()		12160	PANEL CONN AMPS WITH LCL		33.75	PANEL DEMAND KVA WITH LCL		12.16			
CONNECTED VA @ B		4240	CONNECTED VA (L)		0	CONNECTED VA WITH LCL (L)		0	PANEL DEMAND AMPS WITH LCL		33.75			
CONNECTED VA @ C		3260	CONNECTED VA (R)		0	DEMAND VA (R)		0	PANEL CONNECTED AMPS		33.75			
TOTAL VA		12160	CONNECTED VA (K)		0	DEMAND VA (K)		0	DEMAND HIGH @ AMPS WITH LCL		38.80			
1	EXISTING LOAD TO REMAIN				6	SPECIAL NOTES:								
2	PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OF				7									
3	EXISTING TYPE STYLE AND CIRCUIT AS EXISTING				8									
3	EXISTING CIRCUIT BREAKER WITH REVISED LOAD				9									
					10									

—	—	G
—	—	G1
—	—	—

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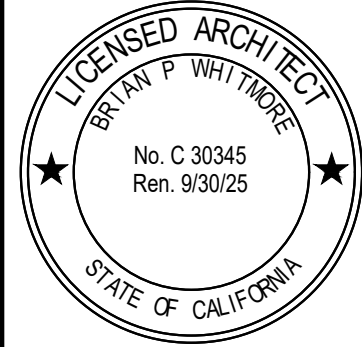
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[T] 949.774.2920
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3220 Executive Ridge, Suite 210
Vista, CA 92081
760.560.0100 #2590-00332
www.salasobrien.com E-Mail admin@salasobrien.com

ARCHITECT

ENGINEER



DAVID S. SALAS
No. C 30345
Ren. 9/30/25



DAVID S. SALAS
No. E 18809
Ren. 4/16/27

DATE ISSUED: 05/10/2026 DATE REVIEWED: 06/03/2026

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PANEL SCHEDULES

Date: 04/09/2026

Application Number: 04-125322

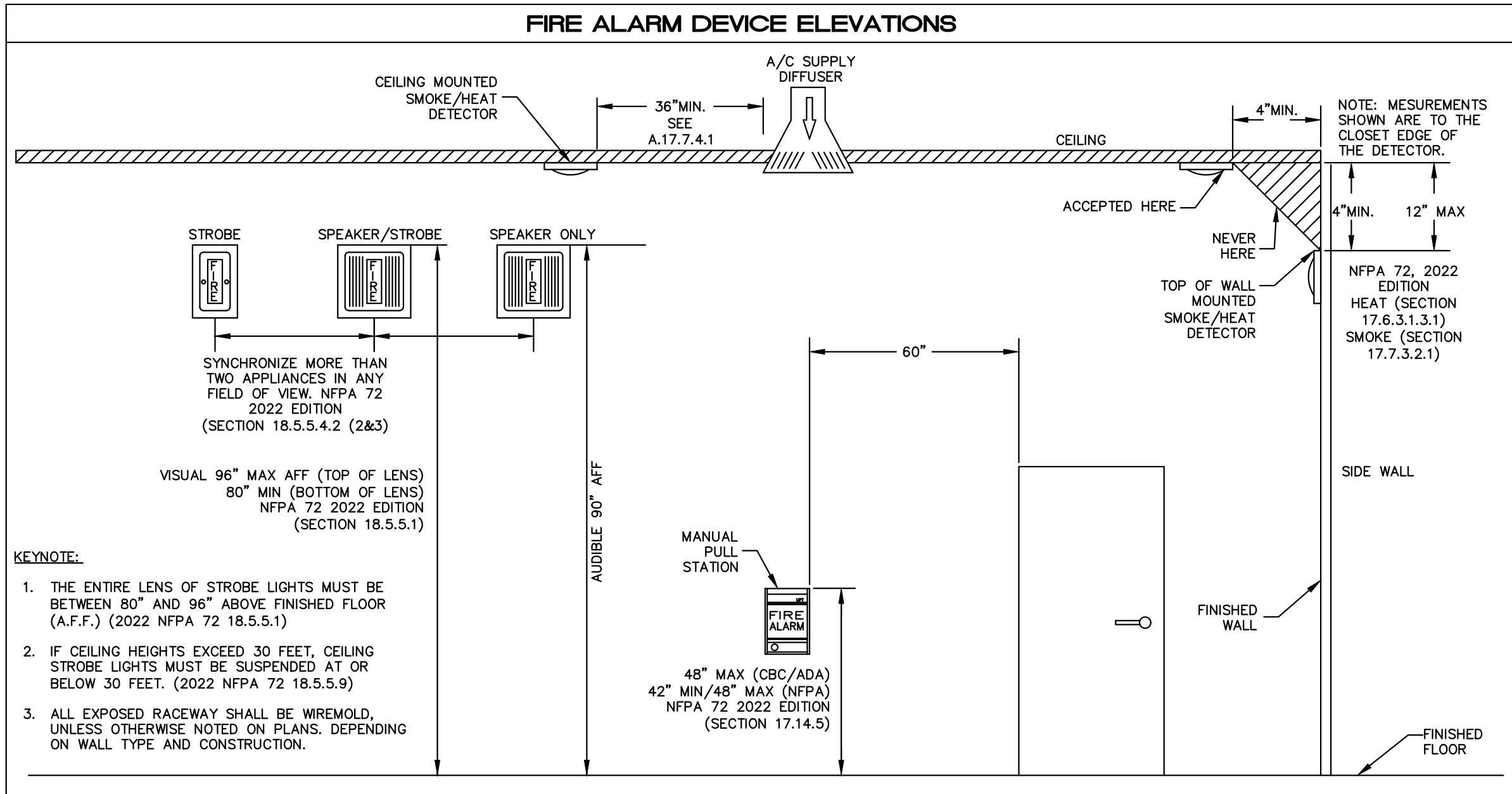
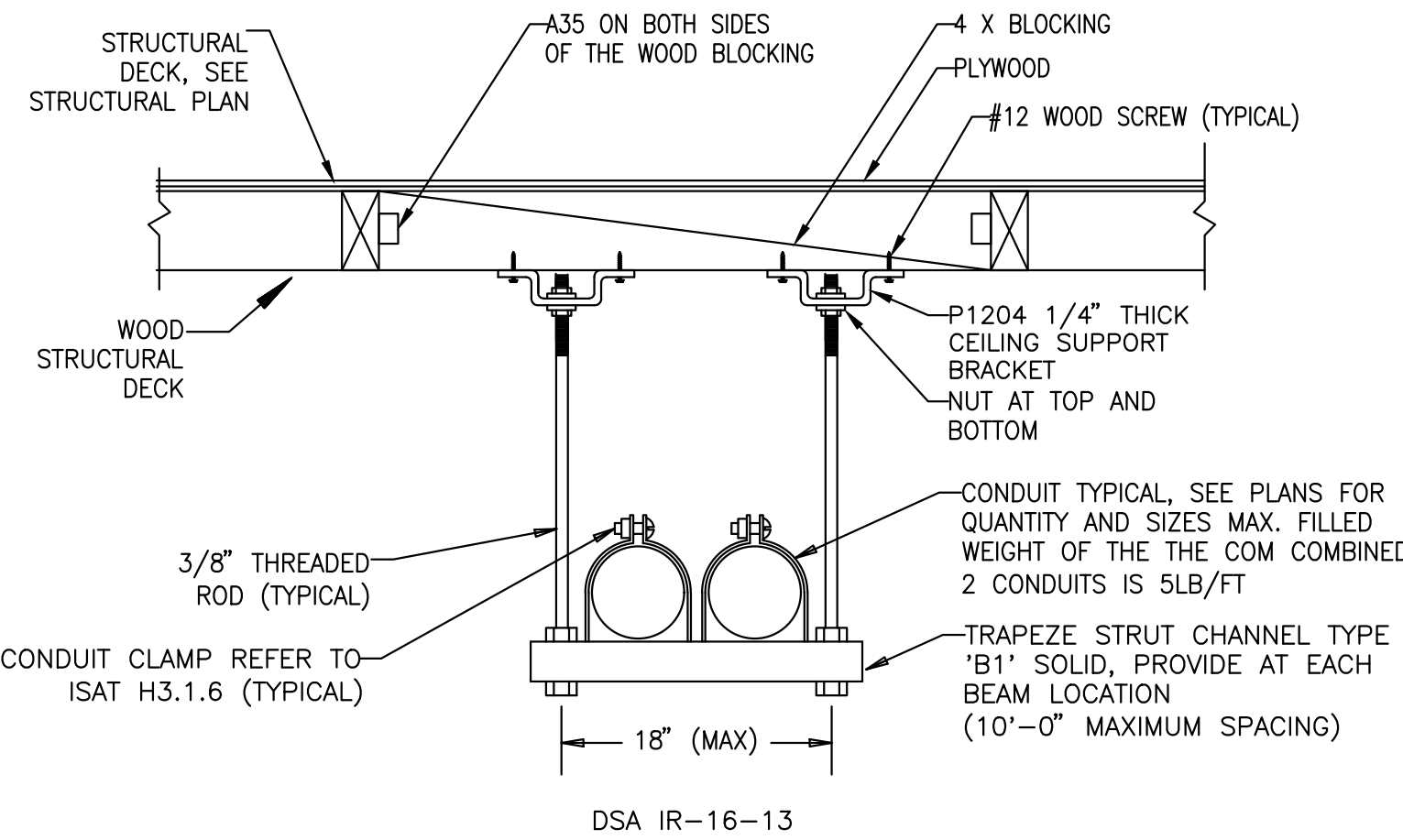
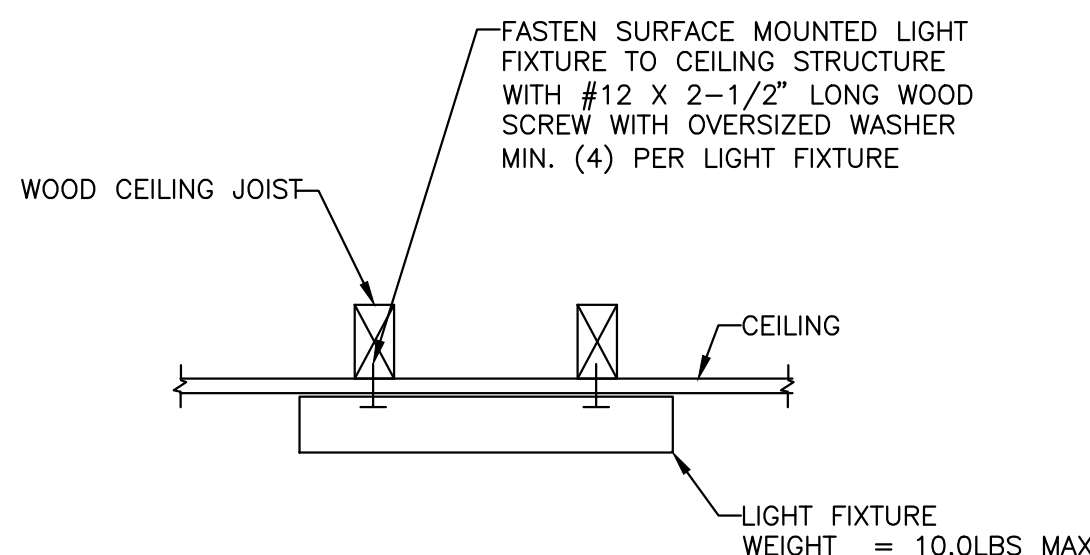
Drawn: SO

Checked: SO

Project Number: 25060

Drawing Number: E4.2

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NOT USED	SCALE NONE	11	NOT USED	SCALE NONE	8	NOT USED	SCALE NONE	5
								
NOT USED	SCALE NONE	12	NOT USED	SCALE NONE	9	NOT USED	SCALE NONE	6
						