# **ACCESSORY DWELLING UNIT** <u>OPTION # 1</u>

# 1000 SQ. FT. MODEL (996 SQ.FT.) W/ ADAPTABLE FEATURES 2-BEDROOM / 2-BATH **COVERED PORCH**



OWNER: ADDRESS: TEL. NO.:

### **PROJECT INFORMATION**



PROJECT OF: THE COUNTY OF FRESNO DEPARTMENT OF PUBLIC WORKS AND PLANNING

Capital Projects Division 2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879

**SCOPE OF WORK:** 

FLOOR AREA (CONDITIONED SPACE)	996 SF
COVERED PATIO 2 (OPTIONAL)	60 SF
COVERED PATIO 1 (OPTIONAL)	47 SF
COVERED PORCH	84 SF
TOTAL	1187 SF

### **BUILDING DATA:**

OCCUPANCY CLASSIFICATION: R3 **GROUP USE : (R-3) SINGLE FAMILY RESIDENCE** TYPE OF CONSTRUCTION: VB SPRINKLERED: YES

### <u>STRUCTURAL DESIGN CRITERIA:</u>

### ROOF DEAD LOAD = 20 PSF

LIVE LOAD = 20 PSF WIND SPEED = 110 MPH (ALLOWABLE STRESS) / EXPOSURE C, LOW-RISE BUILDING

- SEISMIC DESIGN CATOGORY: D SS = 0.531
- SDS = .060 Fa = 1.375
- SNOW LOAD = NONE ALLOWABLE SOIL PRESSURE: 1500 PSF PER CBC 2022 CONCRETE DESIGN STRENGTH OF 2500 PSI PER CRC TABLE R402.2

DEFERRED SUBMITTAL ITEMS

THE OWNER / APPLICANT IS RESPONSIBLE FOR PREPARING DOCUMENTATIONS, APPLICATIONS PROCESSING THROUGH THE AUTHORITY HAVING JURISDICTION AND PAYING ALL APPLICABLE FEE FOR THE DEFERRED SUBMITTALS. REFER TO "RIGHTS AND LIMITATIONS OF USING PRE-APPRC PLANS" FOR ADDITIONAL INFORMATION.

- ROOF TRUSSES FIRE SPRINKLERS
- SOLAR PV MINIMUM 2.59 kW DC per TITLE HVAC (DUCTLESS MINI-SPLIT HEAT PUMP WITH MINIMUM HEATING EFFICIENCY - 8.5 HSPF / COOLING EFFICIENCY- 15 SEER 9 E WITH PERMANENTLY INSTALLED WALL MOUNTED THERMOSTATAT @ LIVING ROOI

### REQUIREMENTS

FIRE DEPARTMENT APPROVAL MUST BE OBTAINED. PROVIDE EVIDENCE OF FIRE PROTECTION DISTRICT APPROVAL TO MAT B. LOPEZ, PLANS EXAMINER AT (559) 600-4324 OR E-MAIL,mattlopez@fresnocountyca.gov.

FOR QUESTIONS REGARDING ZONING REQUIREMENTS, CONTACT: ZONING, AT (559) 600-4540 OR E-MAIL: zoningenforcement2 @fresnocountyca.gov

FOR QUESTIONS REGARDING GRADING REQUIREMENTS, CONTACT: DANA RITSCHEL, AT (559) 600-4212 OR EMAIL: dritschel@fresnocountyca.gov

FOR QUESTIONS REGARDING CODE ENFORCEMENT COMMENTS, CONTACT: Elisania Harrison at (559) 600-2519 or e-mail, eharrison@fresnocountyca.gov

# -PUBLIC WORKS AND PLAN **COUNTY OF FRESNO** DRAWING INDEX

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TTHEW		8.5" x 11" ATTAC STRUCTURAL AN TITLE 24 DOCUM	NALYSIS	

### ADDITIONAL REQUIREMENTS

STATE LAW REQUIRES THIS PROJECT COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA FIRE CODE. CONTACT THE FOLLOWING FIRE PROTECTION DISTRICT AND OBTAIN APPROVALS PRIOR TO OBTAINING THE PERMITS FROM THE COUNTY OF FRESNO, VERIFY THE SITE ADDRESS WITH THE CORRECT JURISDICTION BELOW: FRESNO COUNTY FIRE PROTECTION DISTRICT 1700 JENSEN AVENUE SUITE 103 SANGER, CA. 93657 PHONE: (559) 319-0400

**CITY OF FRESNO FIRE DEPARTMENT** 911 H ST. FRESNO, CA. 93721

PHONE: (559) 621-4000

THE COUNTY OF FRESNO DEPARTMENT OF PUBLIC WORKS AND PLANNING DEVELOPMENT SERVICES 2220 TULARE ST. STREET LEVEL FRESNO, CA. 93721 PHONE (559) 600-4219

NORTH CENTRAL FIRE DEPARTMENT 15850 W. KEARNEY BLVD. KERMAN, CA. 93630 PHONE (559) 275-5531

CSA 50 - AUBERRY VOLUNTEER FIRE DEPARTMENT PO BOX 191 AUBERRY, CA. 93602 559-855-2777

SHAVER LAKE FIRE DISTRICT 41795 TOLLHOUSE SHAVER LAKE, CA. 93664 559-841-8136

ORANGE COVE FIRE DEPARTMENT 550 CENTER STREET ORANGE COVE, CA. 9364 559-626-7758

PROVIDE A COMPLETE SITE PLAN AS PART OF THE PLANS DRAWN TO SCALE, ON A FULL-SIZE SHEET WITH THE

- FOLLOWING INFORMATION: PROVIDE PROPERTY LINE DIMENSIONS
- INDICATE A NORTH ARROW DIMENSION DISTANCES TO ALL PROPERTY LINES AND ADJACENT BUILDINGS.
- LOCATE THE FOLLOWING
- ALL STRUCTURES ON-SITE. EASEMENTS AND SETBACKS.
- MECHANICAL OR OTHER GROUND MOUNTED
- FOUIPMENT LPG TANKS OR GAS METER
- WELLS OR WATER METERS.
- SEPTIC SYSTEMS (INCLUDING 100% EXPANSION AREA FOR LEACHING FIELD) OR SEWER CONNECTIONS. DRIVEWAY (MATERIALS TO BE USED FOR THE
- DRIVEWAY) PROVIDE A DRAINAGE PLAN FOR THE DEVELOPED PORTION OF THE PROPERTY ICRC R300.21. A. FOR VALLEY FLOOR ("FLAT" LAND) PARCELS, ADDRESS THE
  - FOLLOWING: A. SHOW THE DRAINAGE AWAY FROM THE PROPOSED. CONSTRUCTION. "PROVIDE A TWO PERCENT SLOPE AWAY FROM THE PROPOSED BUILDING FOR A
  - MINIMUM OF FIVE FEET." [FCOC 15.08.020 O]. SHOW DRAINAGE PATTERNS TO THE STREET OR AN APPROVED DRAINAGE FACILITY. **PROVIDE ACTUAL/RELATIVE ELEVATIONS FOR THE**
  - BUILDING PAD, LOT CORNERS AND CROWN OF ADJACENT STREETS. "FINISH FLOOR ELEVATION IS TO BE ABOVE THE CROWN OF THE STREE DELINEATE THE EXTENT OF THE BUILDING PAD WITH DIMENSIONS FROM THE BUILDING TO THE EDGE OF
- THE PAD FOR ALL FOOTHILL AND MOUNTAIN PARCELS WITH SLOPED GRADES, ADDRESS THE FOLLOWING: A. SHOW THE DRAINAGE AWAY FROM THE PROPOSED CONSTRUCTION. "PROVIDE A TWO PERCENT SLOPE AWAY FROM THE PROPOSED BUILDING FOR A MINIMUM OF FIVE FEET." [FCOC 15.08.020 O], SHOW DRAINAGE PATTERNS TO THE STREET OR AN APPROVED DRAINAGE FACILITY (EXISTING AND
  - PROPOSED CONTOURS) INCLUDING: TERRACING.
  - SWALES.
- RETAINING WALLS. ROOF RAINWATER RUNOFF. SHOW GUTTERS AND DOWNSPOUT DISCHARGE LOCATIONS.
- C. DELINEATE THE EXTENT OF THE BUILDING PAD WITH DIMENSIONS FROM THE BUILDING TO THE EDGE OF THE
- D. CUT AND FILL AREAS (WITH QUANTITIES IN CUBIC YARDS) ON BOTH PLAN AND SCHEMATIC (SECTION) VIEWS IN BOTH DIRECTIONS.
- DRIVEWAYS AND PRIVATE ROADS SHALL HAVE A MAXIMUM SLOPE OF 12%. THE GRADE MAY BE INCREASED TO A MAXIMUM OF 20% FOR PAVED SURFACES." [FCOC **15.60**.505].
- ADD THE FOLLOWING NOTES ON THE SITE OR DRAINAGE PLANS: A. "FINISH FLOOR ELEVATION IS TO BE ABOVE THE CROWN OF THE STREET."
- B. **"PROVIDE A TWO PERCENT SLOPE AWAY FROM THE** PROPOSED BUILDING FOR A MINIMUM OF FIVE FEET." [FCOC
- 15.08.020 O]. "DRIVEWAYS AND PRIVATE ROADS SHALL HAVE A MAXIMUM SLOPE OF 12%. THE GRADE MAY BE INCREASED TO A MAXIMUM OF 20% FOR PAVED SURFACES." [FCOC 15.60.505].

### APPLICABLE CODE

- 2022 CALIFORNIA ADMINISTRATIVE CODE 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA ELECTRICAL CODE 2022 CALIFORNIA FIRE CODE
- 2022 CALIFORNIA RESIDENTIAL CODE 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA GREEN BUILDING CODE
- 2022 CALIFORNIA REFERENCE STANDARDS CODE FRESNO COUNTY ORDINANCE TITLE 15

REFER TO G-101 , G-102 FOR ADDITIONAL INFORMATION.

### **GENERAL NOTES**

CONSTRUCTION WASTE MANAGEMENT PLAN MUST BE FINALIZED PRIOR TO OCCUPANCY. INSTALL STREET ADDRESS NUMERALS, AT LEAST FOUR INCHES HIGH WITH MINIMUM 1/2-INCH STROKE, MOUNTED ON A CONTRASTING BACKGROUND CLEARLY VISIBLE FROM THE STREET. PRIOR TO PERMIT ISSUANCE. PROVIDE AN ADDITIONAL FLOOR PLAN AND SITE PLAN FOR USE BY THE ASSESSOR'S OFFICE.

### **RIGHTS AND LIMITATIONS IN USING PRE-APPROVED PLANS**

- RIGHTS OF THE OWNER / BUILDER:
- A. THE OWNER / BUILDER HAS THE RIGHT TO UTILIZE THE PRE-APPROVED PLANS FOR THEIR INTENDED CONSTRUCTION PROJECT. SUBJECT TO COMPLIANCE WITH APPLICABLE REGULATIONS AND GUIDELINES
- **RESPONSIBILITY OF THE OWNER / BUILDER**
- THE OWNER / BUILDER IS RESPONSIBLE FOR SUBMITTING ALL ITEMS LISTED UNDER THE DEFERRED SUBMITTAL AS REQUIRED BY THE RELEVANT AUTHORITIES. THIS INCLUDES ANY ADDITIONAL DOCUMENTS, PERMITS, OR INFORMATION THAT WERE NOT INCLUDED IN TH PRE-APPROVED PLANS
- THE OWNER / BUILDER MUST ENSURE THAT THE CONSTRUCTION PROJECT ADHERES TO A RELEVANT BUILDING CODES. ZONING REGULATIONS. AND OTHER APPLICABLE LAWS. IT IS THE RESPONSIBILITY OF THE OWNER / BUILDER TO SECURE APPROVAL FROM THE ZONING DEPARTMENT FOR SITE-SPECIFIC LOCATIONS. THE PRE-APPROVED PLANS DO NOT NCLUDE SUCH SITE-SPECIFIC DETAILS, AND THE OWNER / BUILDER MUST OBTAIN NECESSARY PERMITS OR VARIANCES AS REQUIRED.
- LIMITATIONS ON SITE-SPECIFIC LOCATIONS: THE PRE-APPROVED PLANS DO NOT PROVIDE SITE-SPECIFIC INFORMATION OR DETAILS REGARDING THE CONSTRUCTION SITE. THE OWNER / BUILDER MUST CONSULT WITH THE APPROPRIATE AUTHORITIES, SUCH AS THE ZONING DEPARTMENT, TO OBTAIN THE NECESSARY APPROVALS FOR THE SPECIFIC LOCATION OF THE CONSTRUCTION PROJECT THE OWNER / BUILDER MUST COMPLY WITH ALL ZONING REGULATIONS SETBACK
- REQUIREMENTS, ENVIRONMENTAL CONSIDERATIONS, AND ANY OTHER SITE-SPECIFIC RESTRICTIONS IMPOSED BY THE RELEVANT AUTHORITIES. COMPLIANCE WITH BUILDING CODES AND REGULATIONS:
- THE OWNER / BUILDER MUST ENSURE THAT THE CONSTRUCTION PROJECT COMPLIES WITH ALL APPLICABLE BUILDING CODES. REGULATIONS. AND STANDARDS. EVEN IF THE PRE-APPROVED PLANS WERE UTILIZED
- THE USE OF PRE-APPROVED PLANS DOES NOT EXEMPT THE OWNER / BUILDER FROM FULFILLING THEIR OBLIGATIONS TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS AS REQUIRED BY LOCAL. STATE, AND FEDERAL REGULATIONS.
- LIABILITY AND INDEMNIFICATION: THE OWNER / BUILDER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE CONSTRUCTION PROJECT, INCLUDING ANY CONSEQUENCES ARISING FROM THE USE OF TH PRE-APPROVED PLANS
- THE OWNER / BUILDER AGREES TO INDEMNIEY AND HOLD HARMLESS THE RELEVAN AUTHORITIES, ARCHITECTS, ENGINEERS, AND ANY OTHER PARTIES INVOLVED IN THE APPROVAL PROCESS, FROM ANY CLAIMS, DAMAGES, OR LIABILITIES ARISING OUT OF THE USE OF THE PRE-APPROVED PLANS OR THE CONSTRUCTION PROJECT GEOGRAPHIC LIMITATIONS:
- A. THE PRE-APPROVED PLANS ARE NOT INTENDED FOR AREAS SUBJECT TO SNOW LOAD. WILDFIRE RISK, FLOOD ZONES, OR OTHER SPECIFIC GEOGRAPHIC CONDITIONS. THE OWNER / BUILDER ACKNOWLEDGES AND UNDERSTANDS THAT THE PRE-APPROVED PLANS MAY NOT ACCOUNT FOR UNIQUE SITE CONDITIONS
- SITE-SPECIFIC CONSIDERATIONS A THE OWNER / BUILDER MUST ASSESS AND ADDRESS ANY SITE-SPECIFIC FACTORS THAT AR NOT COVERED BY THE PRE-APPROVED PLANS, INCLUDING BUT NOT LIMITED TO SOIL CONDITIONS, TOPOGRAPHY, DRAINAGE, AND OTHER ENVIRONMENTAL CONSIDERATIONS IT IS THE RESPONSIBILITY OF THE OWNER / BUILDER TO ENGAGE THE NECESSARY
- PROFESSIONALS, SUCH AS GEOTECHNICAL ENGINEERS OR ENVIRONMENTAL CONSULTANTS. TO EVALUATE AND MITIGATE ANY SITE-SPECIFIC RISKS OR CHALLENGES COMPLIANCE WITH LOCAL REGULATIONS:
- THE OWNER / BUILDER MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS THAT APPLY TO THEIR SPECIFIC GEOGRAPHIC AREA. INCLUDING BUT NOT LIMITED TO BUILDING CODES, ZONING ORDINANCES, FIRE CODES, AND ENVIRONMENTAL REGULATIONS THE USE OF THE PRE-APPROVED PLANS DOES NOT EXEMPT THE OWNER / BUILDER FROM FULFILLING THEIR OBLIGATIONS TO ADHERE TO THESE LOCAL REGULATIONS AND OBTAIN
- ANY NECESSARY PERMITS OR APPROVALS MODIFICATION RESTRICTIONS
- THE OWNER / BUILDER SHOULD BE AWARE THAT MODIFICATIONS TO THE PRE-APPROVED PLANS MAY BE REQUIRED TO ADDRESS SPECIFIC SITE CONDITIONS OR MEET LOCAL REGULATIONS. ANY SUCH MODIFICATIONS MUST BE CARRIED OUT IN COMPLIANCE WITH THE APPLICABLE LAWS AND REGULATIONS. THE OWNER / BUILDER MAY NEED TO ENGAGE DESIGN PROFESSIONALS, SUCH AS
- ARCHITECTS OR ENGINEERS. TO REVIEW AND REVISE THE PRE-APPROVED PLANS AS NECESSARY TO ENSURE COMPLIANCE WITH LOCAL REQUIREMENTS. ELIANCE AND VERIFICATION
- A. THE OWNER / BUILDER ACKNOWLEDGES THAT THE USE OF PRE-APPROVED PLANS IS BASED ON THE ASSUMPTION THAT THEY ARE ACCURATE, COMPLETE, AND COMPLIANT WITH RELEVANT REGULATIONS.
- HOWEVER, THE OWNER / BUILDER ALSO UNDERSTANDS THAT IT IS THEIR RESPONSIBILITY TO VERIFY THE SUITABILITY AND APPLICABILITY OF THE PRE-APPROVED PLANS FOR THEIR SPECIFIC PROJECT AND SITE CONDITIONS. THEY SHOULD EXERCISE DUE DILIGENCE IN CONFIRMING THE PLANS' ADEQUACY BEFORE PROCEEDING WITH CONSTRUCTION.

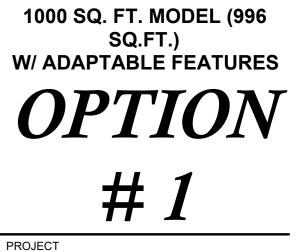
### AGING-IN-PLACE DESIGN AND FALL PROTECTION

- A. THE BATHROOM SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED IN ACCORDANCE WITH THIS SECTION. WHERE THERE IS NO BATHROOM ON THE ENTRY LEVEL, AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS SECTION, [CRC R327.1.11
- REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED 1. BY THE ENFORCING AGENCY. [CRC R327.1.1(1)] REINFORCEMENT SHALL NOT BE LESS THAN 2 INCHES BY 8-INCH NOMINAL LUMBER (1-1/2 INCH BY 7-1/4-INCH ACTUAL DIMENSION) OR OTHER CONSTRUCTION MATERIAL PROVIDING EQUAL HEIGHT AND LOAD CAPACITY. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND
- 39-1/4 INCHES ABOVE THE FINISH FLOOR FLUSH WITH WALL FRAMING [CRC R327.1.1(2)] WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE OR ONE SIDE WALL AND BACK WALL. [CRC R327.1.1(3)] SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED. [CRC
- R327.1.1(4)] BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL
- REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE LOCATED NO MORE THAN 6 INCHES ABOVE THE BATHTUB RIM [CRC R327.1.1(5)] A. WHERE THE WATER CLOSET IS NOT PLACED ADJACENT TO A SIDEWALL CAPABLE OF ACCOMMODATING A GRAB BAR, THE BATHROOM SHALL HAVE PROVISIONS FOR INSTALLATION OF FLOOR-MOUNTED, FOLD-AWAY, OR SIMILAR ALTERNATE GRAB BAR
- REINFORCEMENTS APPROVED THE ENFORCING AGENCY [CRC R327.1.1 EXCEPTION 1] REINFORCEMENT SHALL NOT BE REQUIRED IN WALL FRAMING FOR PREFABRICATED SHOWER ENCLOSURES AND BATHTUB WALL PANELS WITH INTEGRAL FACTORY INSTALLED GRAB BARS OR WHEN FACTORY INSTALLED REINFORCEMENT FOR GRAB BARS IS PROVIDED. [CRC R327.1.1 EXCEPTION 2]
- C. SHOWER ENCLOSURES THAT DO NOT PERMIT INSTALLATION OF REINFORCEMENT AND OR GRAB BARS SHALL BE PERMITTED, PROVIDED REINFORCEMENT FOR INSTALLATION OF FLOOR MOUNTED GRAB BARS OR AN ALTERNATE METHOD IS APPROVED BY THE ENFORCING AGENCY. [CRC R327.1.1 EXCEPTION 3]
- BATHTUBS WITH NO SURROUNDING WALLS, OR WHERE WALL PANELS DO NOT PERMIT THE INSTALLATION OF REINFORCEMENT SHALL BE PERMITTED, PROVIDED REINFORCEMENT FOR INSTALLATION OF FLOOR MOUNTED GRAB BARS ADJACENT TO THE BATHTUB OR AN ALTERNATE METHOD IS APPROVED BY THE ENFORCING AGENCY. [CRC R327.1.1 EXCEPTION 4] REINFORCEMENT OF FLOORS SHALL NOT BE REQUIRED FOR BATHTUBS AND WATER

CLOSETS INSTALLED ON CONCRETE SLABS. [CRC R327.1.1 EXCEPTION 5] DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED SHALL NOT EXCEED 48 INCHES ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON ASSEMBLY WHERE DOORBELL BUTTONS INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED ABOVE 48 INCHES MEASURED FROM THE EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A HEIGHT NOT EXCEEDING 48 INCHES ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL

CONTROL [CRC R327.1.4] C. R327.1.2 ELECTRICAL RECEPTACLE OUTLET, SWITCH AND CONTROL HEIGHTS. ELECTRICAL RECEPTACLE OUTLETS, SWITCHES, AND CONTROLS (INCLUDING CONTROLS FOR HEATING, VENTILATION, AND AIR CONDITIONING) INTENDED TO BE USED BY OCCUPANTS, SHALL BE LOCATED NO MORE THAN 48 INCHES (1219.2 MM) MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15 INCHES (381 MM) MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR. EXCEPTIONS:

A. DEDICATED RECEPTACLE OUTLETS; FLOOR RECEPTACLE OUTLETS; CONTROLS MOUNTED ON CEILING FANS AND CEILING LIGHTS; AND CONTROLS LOCATED ON APPLIANCES. RECEPTACLE OUTLETS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE ON A WALL SPACE WHERE THE DISTANCE BETWEEN THE FINISHED FLOOR AND A BUILT-IN FEATURE ABOVE THE FINISH FLOOR, SUCH AS A WINDOW, IS LESS THAN 15 INCHES.



# ACCESSORY **DWELLING UNIT**

PWP23-003

### DEPARTMENT OF PUBLIC WORKS AND PLANNING



### **CAPITAL PROJECTS** DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



UPDATE

JULY 10, 2023

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR

LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT

COVER PAGE

As indicated SCALE **ISSUE DATE** MARCH 7, 2023 2023 24 DRAWN BY CHECKED BY Author Checker

1.	BE	OPE OF WORK SHALL BE CONSTRUCTED ACCORDING TO THESE WORKING DRAWINGS AS AGREED UPON TWEEN OWNER AND CONTRACTOR. THE WORD "CONTRACTOR" REFERS TO THE GENERAL		ALL U REQ
2.		INTRACTOR. "SUBCONTRACTOR" REFERS TO ONE HAVING DIRECT CONTACT WITH THE CONTRACTOR.	9.	PROTECT
2.	А.		10.	USE OF TH
	В.	THE GENERAL CONTRACTOR SHALL READ, EXAMINE AND BE THOROUGHLY FAMILIAR WITH THESE DRAWINGS AND WITH THE EXISTING SITE CONDITIONS PRIOR TO THE START OF WORK. IN THE EVENT	11	OWNER. MATERIAL
		THERE ARE DISCREPANCIES OR OMISSIONS WITHIN THE DRAWINGS AND/OR SPECIFICATIONS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.		AND/OR S
	C.	CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATION, ETC., AND	12.	CLEANING FREE OF /
		BURIED ARTIFACTS SUCH AS INDIAN OR DINOSAUR BONES. IF ANY SUCH ITEMS ARE FOUND THE ARCHITECT, CIVIL ENGINEER, AND SOILS ENGINEER SHALL BE NOTIFIED IMMEDIATELY.		WORK. AT SCAFFOLI
	D.	NO DRAWINGS, DETAILS, NOTES ETC., SHALL BE INTERPRETED TO ALLOW FOR A VIOLATION OF THE LOCAL BUILDING CODE, STATE BUILDING CODE AND OTHER APPLICABLE CODES AND GOOD		WORK IN A
	E.	CONSTRUCTION PRACTICES. THE GENERAL CONTRACTOR SHALL REVIEW ALL GRADE ELEVATIONS PRIOR TO CONSTRUCTION.		END OF E
	F.	CONTRACTORS SHALL VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, MATERIALS, SIZE OF MEMBERS, ETC., PRIOR TO ON-SITE DELIVERY.	13.	ALL COND
	G. H. I.	CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY PROTECT ADJACENT PROPERTIES. JOB SHALL BE COMPLETED WITH AS MUCH SPEED AS POSSIBLE WHEN WORK BEGINS. INSPECTIONS: THE CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS FOR HIS WORK AND GIVE		AND DETA FIRST CLA CONTRAC
	ı. J.	THE OWNER TIMELY NOTICE OF HIS INTENT TO HAVE INSPECTION. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE PLUMBING, MECHANICAL AND		DUTY TO I SAID NOT
	0.	ELECTRICAL CONTRACTORS, THE SIZE AND LOCATION OF ALL PIPING, DUCTWORK, TRENCHES, SLEEVES, SPECIAL BOLTING FOR EQUIPMENT CONDUITS, ETC	14	RELATED CLARIFIC/
	K.	THE DESIGN, ADEQUACY AND SAFETY OF ERECTION, BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE		EXISTING
	L.	STRUCTURAL ENGINEER AND ARCHITECT. THE CONTRACTOR SHALL PROVIDE ALL RISK INSURANCE. REFER TO PROJECT MANUAL FOR MINIMUM	15.	DIMENSIO DRAWING
	M.			CONSTRU SHALL HA
	N.			IN THE FO
		AND CODE REGULATIONS. THESE CODES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: 2022 CALIFORNIA ADMINISTRATIVE CODE	10	AS MODIF
		2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA PLUMBING CODE		ALL WRIT
		2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA ELECTRICAL CODE 2022 CALIFORNIA FIRE CODE	17.	PLEASE N PARTIES \
		2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA RESIDENTIAL CODE 2022 CALIFORNIA ENERGY CODE		
		2022 CALIFORNIA GREEN BUILDING CODE 2022 CALIFORNIA REFERENCE STANDARDS CODE	<u>03</u>	-CONC
	0	FRESNO COUNTY ORDINANCE TITLE 15	2.	REFER TO THE PERF CONCRET
	0.	CONTRACTOR SHALL TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS, AND CAREFULLY COMPARE WITH THE CONSTRUCTION DOCUMENTS SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER INFORMATION KNOWN TO CONTRACTOR BEFORE COMMENCING THE WORK. ERRORS,	2. 3.	ENGINEER
		INCONSISTENCIES, OR OMISSIONS DISCOVERED AT ANY TIME SHALL BE PROMPTLY REPORTED IN WRITING TO THE OWNER / BUILDER.	4. 5.	CONCRET
	Ρ.	CONTRACTOR SHALL PROMPTLY NOTIFY OWNER'S REPRESENTATIVE IF CONTRACTOR BECOMES AWARE DURING THE PERFORMANCE OF THE WORK THAT THE CONSTRUCTION DOCUMENTS ARE NOT IN	6.	ALL FORM R404.1.3.3
	Q.	COMPLIANCE WITH APPLICABLE CODE REQUIREMENTS. BY SUBMITTAL OF BID, CONTRACTOR WARRANTS TO OWNER / BUILDER THAT ALL MATERIALS AND	7.	CONDUIT, ACCORDA
		EQUIPMENT TO BE FURNISHED ARE NEW UNLESS NOTED OTHERWISE AND ALL WORK WILL BE OF GOOD QUALITY AND FREE FROM FAULTS AND DEFECTS.	8. 9.	CONSTRU
	R.	SUBCONTRACTORS SHALL INSURE THAT ALL WORK IS DONE IN A PROFESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL BE REPLACE ANY MATERIALS OR ITEMS DAMAGED BY SUB-		R404.1.3.3 TOP OF C
		CONTRACTOR'S PERFORMANCE. SUBCONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION		FOUNDAT
		TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK. ALL SUBCONTRACTOR WORKMANSHIP SHALL BE OF QUALITY		ALL REINF EMBEDDE PROPER L
		TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS, ARCHITECT OR BUILDER. ANY ONE OR ALL OF THE ABOVE MENTIONED INSPECTORS MAY INSPECT WORKMANSHIP AT ANY TIME, AND CORRECTIONS NEEDED TO ENHANCE THE QUALITY OF BUILDING WILL BE DONE IMMEDIATELY. EACH		INSTALLA AND ITEM
		SUBCONTRACTOR, UNLESS SPECIFICALLY EXEMPTED BY THE TERMS OF HIS / HERS SUBCONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL		
		TRASH AND DEBRIS NOT LEFT BY OTHER SUBCONTRACTORS. OWNER / BUILDER WILL DETERMINE HOW SOON AFTER SUBCONTRACTOR COMPLETES EACH PHASE OF HIS / HER WORK THAT TRASH AND DEBRIS		-MASC
		WILL BE REMOVED FROM THE SITE. APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR ALLOWABLE FAILURE TO	1. 2.	ANY AND MASONR ALL MOR
		COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE ARCHITECT OR ENGINEER FOR INTERPRETATION OR	2.	MASONR WATER L
		CLARIFICATION. ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED UNDER THESE PLANS SHALL BE	4.	ACID, ALI
	U.	GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY OWNER / BUILDER UNLESS STIPULATED OTHERWISE. ALL TRADE NAMES AND BRAND NAMES CONTAINED HEREIN ESTABLISH QUALITY STANDARDS.		MASONR THE PRO
	Ο.	SUBSTITUTIONS ARE PERMITTED, WITH PRIOR APPROVAL B THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECT'S AND BUILDERS APPROVAL ALL MATERIALS OR	5.	WITH SE
	V.	EQUIPMENT WHICH IS CONSIDERED "OR EQUAL" TO THAT SPECIFIED. CONSTRUCTION DOCUMENTS IDENTIFIED A "NOT FOR CONSTRUCTION" WATERMARK ON ANY OR ALL		ASTM C 4
		SHEETS MAY BE SUBJECT TO REVIEW. THIS REVIEW MAY RESULT IN CHANGES WHICH MAY BE MADE TO THE PLANS PRIOR TO THE ISSUANCE OF THE FINAL CONSTRUCTION SET WHICH WILL CONTAIN NO	6.	
		WATERMARK DESIGNATIONS. CONSTRUCTION DOCUMENTS IDENTIFIED WITH A WATERMARK ARE NOT TO BE CONSTRUED AS BEING THE COMPLETED OR FINAL DRAWINGS AND THEY SHOULD NOT IN ANY	7. 8.	ALL BRIC UNLESS PATTERN
	W.	WAY BE USED AS SUCH. ALL STANDARD NOTES CONTAINED HEREIN ARE TYPICAL UNLESS NOTED OTHERWISE	9.	MASONR
	Х.	TYPICAL DETAILS AND SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.		MINIMUN FACE. MA
		SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.		ALTERNA FILL THE
	Y.	THE CONSTRUCTION DOCUMENTS AND ALL COPIES THEREOF FURNISHED TO CONTRACTOR ARE THE PROPERTY OF THE COUNTY OF FRESNO AND ARE NOT TO BE USED ON OTHER WORK.		REQUIRE SHEATHI
3.		RORS AND OMISSIONS: IF ANY ERRORS OR OMISSIONS APPEAR IN THESE DRAWINGS, OR OTHER	10	BARRIER R703.8.4.
	THE	NTRACT DOCUMENTS, THE GENERAL CONTRACTOR AND SUBCONTRACTORS AFFECTED SHALL NOTIFY E OWNER / BUILDER IN WRITING OF SUCH ERROR OR OMISSION. IN THE EVENT OF FAILING TO GIVE SUCH ITTEN NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, HE WILL BE HELD	10.	ADHEREI THE REQ INSTALLE
	RES	SPONSIBLE FOR THE RESULT OF THE ANY SUCH ERRORS OR OMISSIONS AND THE COST FOR CTIFYING THE SAME.		MANUFA
4.	GUA	ARANTEES: CONTRACTOR SHALL GUARANTEE THE WORK IN GENERAL FOR ONE YEAR AGAINST DEFECTS (ATERIALS AND WORKMANSHIP. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE		GROUND
	BUI	LDING FREE FROM DEFECTS OF MATERIALS AND POOR WORKMANSHIP FROM DATE OF COMPLETION. E CONTRACTOR SHALL FURNISHED A WRITTEN GUARANTEE STATING THAT ALL WORK EXECUTED BY HIM		ARE DES
		L BE FREE FROM DEFECTS OF THE MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR ILESS OTHERWISE SPECIFIED) FROM DATE OF ACCEPTANCE OF HIS WORK, THAT HE WILL REPAIR AND		WEEPHO SPACING
5.		PLACE ALL SUCH DEFECTIVE WORK AND ALL OTHER WORK DAMAGE WITHOUT COST TO THE OWNER. SURING THAT PLANS ARE BEING FOLLOWED, IT DOES NOT RELIEVE THE CONTRACTOR OR ANY		FLASHIN
6.	SUE	BCONTRACTORS FROM ANY RESPONSIBILITY FOR WORK WHICH MAY PROVE FAULTY. 3 CONDITIONS:	<u>05</u>	-META REFER TC
0.	<u>ЗОВ</u> А.	DUST CONTROL: USE ALL MEANS NECESSARY TO PREVENT THE SPREAD OF DUST DURING THE PERFORMANCE OF SITE WORK. THOROUGHLY MOISTEN ALL EXTERIOR SURFACES AS REQUIRED TO	2.	REINFORC
		PREVENT DUST FROM BEING A NUISANCE TO THE PUBLIC, NEIGHBORS AND CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE.		AISI S220
	В.	PROTECTION: USE ALL MEANS NECESSARY TO PROTECT EXISTING OBJECTS TO REMAIN AND IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE		CONTINUC SHALL BE
7.	PRE	SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.	3.	FASTENER HOT-DIPP
	A.	CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATION, ETC.,	06	-WOOL
		AND BURIED ARTIFACTS SUCH AS INDIAN OR DINOSAUR BONES. IF ANY SUCH ITEMS ARE FOUND THE ARCHITECT, CIVIL ENGINEER, AND SOILS ENGINEER SHALL BE NOTIFIED IMMEDIATELY.		IBER
	B.	NOTIFICATION: THE CONTRACTOR SHALL INFORM THE OWNER AND ARCHITECT OF THE DATE FOR START OF SITE WORK. THE DATE SHALL BE ACCEPTABLE TO ALL PARTIES.	1.	WOOD AN CONFORM
	C.	<ul> <li>SITE INSPECTION:</li> <li>PRIOR TO ANY DEMOLITION, CAREFULLY INSPECT THE ENTIRE SITE &amp; ALL OBJECTS</li> </ul>		BE IDENTI AGENCY A
		<ul> <li>DESIGNATED TO BE REMOVED &amp; TO REMAIN.</li> <li>LOCATE ALL EXISTING UTILITY LINES AND EQUIPMENT. DETERMINE WHICH UTILITIES MUST</li> <li>BE REMOVED AND WHICH ARE TO REMAIN AS WELL AS ALL REQUIREMENTS FOR</li> </ul>		COMPLIES
	D.	BE REMOVED AND WHICH ARE TO REMAIN AS WELL AS ALL REQUIREMENTS FOR DISCONNECTING OR CAPPING. PROTECTIVE WORKS:	2.	OF THE FO
	ש.			R318.1 SH ACCREDIT
		<ul> <li>WORK.</li> <li>LOCATE ALL EXISTING UTILITY LINES AND EQUIPMENT. DETERMINE WHICH UTILITIES MUST</li> </ul>		THE AMER QUALITY N TREATED
		BE REMOVED AND WHICH ARE TO REMAIN AS WELL AS ALL REQUIREMENTS FOR DISCONNECTING OR CAPPING.	3.	ALL LUMB
	E.	DAMAGE TO EXISTING WORK: EXISTING WORK DAMAGE IN THAT EXECUTION OF THIS WORK SHALL BE REPAIRED OR RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.		0110/

**GENERAL NOTES** 

# 8. DISCONNECTION OF UTILITIES:

- ION OF UTILITIES.
- LS AND EMPLOYEES: UNLESS OTHERWISE DIRECTED BY THE OWNER, THE CONTRACTOR UBCONTRACTOR SHALL PROVIDE AND PAY FOR ALL MATERIALS, LABOR, TOOLS, ENT, TELEPHONE, AND GAS TRANSPORTATION. MATERIALS SHALL BE OF GOOD QUALITY. G UP: THE CONTRACTOR AND SUBCONTRACTORS SHALL AT ALL TIMES KEEP THE PREMISES ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY HIS EMPLOYEES AND THE COMPLETION OF THE WORK, HE SHALL REMOVE ALL HIS RUBBISH, ALL OF HIS TOOLS, DING AND SURPLUS MATERIALS FROM AND ABOUT THE BUILDING AND SHALL LEAVE HIS A BROOM CLEAN CONDITION. THE SITE AND BUILDING AREA SHALL BE KEPT CLEAN AND JP OF DEBRIS AND SCRAPS AT ALL TIMES DURING CONSTRUCTION, PARTICULARLY AT THE ACH WORK WEEK, THE CONTRACTOR SHALL INSURE THAT ALL GLASSES, TILES, TOILET , EQUIPMENT, PAINTED SURFACES, FLOORS, ETC., ARE THOROUGHLY PROTECTED DURING DITIONS FOR ACCEPTANCE BY THE OWNER.

- NOTE BELOW FOR ERRORS AND OMISSION. AND ALL OBJECTS TO BE PRESERVED.
- DNS: FIGURED DIMENSIONS SHALL BE FOLLOWED IN PREFERENCE TO SMALL SCALE GS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ANY WORK IS UCTED AND/ OR FABRICATED. THE SPECIFICATION AND/OR SCHEDULES ON THE DRAWINGS AVE WRITTEN NOTES AND OR BE FOLLOWED IN PREFERENCE TO INFORMATION FURNISHED ORM OF LINES ON DRAWINGS. DETAILED CLARIFICATION DRAWINGS FURNISHED DURING UCTION OR APPROVED BY THE ARCHITECT ARE TO BE CONSIDERED EXPLANATORY AND NOT ICATIONS OF THESE PLANS AS SHALL BE CALLED CLARIFICATION DRAWINGS. ALL NOTES, AND DETAIL DRAWINGS SHALL BE FOLLOWED AND EXECUTED AS PART OF THESE NOTES. FEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DIMENSION LINES
- ACE OF STUD UNLESS NOTED OTHERWISE (U.N.O.)
- VITH AN EQUAL AND COMPARABLE ALTERNATE.

- RETE WORK STRUCTURAL ENGINEERING CALCULATIONS AND THE MOST CURRENT SOILS REPORT FOR ORMANCE REQUIREMENTS FOR CONCRETE FOUNDATIONS. TE STRENGTH SHALL BE PER CRC SECTION R402.2 AND TABLE R402.2 REFER TO STRUCTURAL RING CALCULATIONS FOR ADDITIONAL INFORMATION.
- TE SHALL BE MIXED IN ACCORDANCE WITH CRC SECTION R404.1.3.3.2. FE PROPORTION SHALL BE PLACED IN ACCORDANCE WITH CRC SECTION R404.1.3.3.4.
- FE SHALL BE CURED IN ACCORDANCE WITH CRC CHAPTER 44 D 318-14. WORK SHALL BE DESIGNED, CONSTRUCTED, UTILIZED, AND REMOVED PER CRC SECTION PIPES, OR SLEEVES MAY PENETRATE OR BE EMBEDDED IN CONCRETE ONLY IN
- NCE WITH PER G 318-14.
- REINFORCING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH CRC SECTION ONCRETE SLABS TO BE MINIMUM 6" (8" HUD) ABOVE FINISH GRADE. CRC SECTION R404.1.6 ION WIDTHS, DEPTHS, AND REINFORCING, AS SH<mark>OWN</mark> ON PLANS, A<mark>RE S</mark>UPERCEDED BY ANY
- S PRIOR TO PLACEMENT OF CONCRETE.

- Y VENEER SHALL MEET THE REQUI
- KALIS, OR ORGANIC MATERIAL OR OTHER HARMFUL SUBSTANCES
- TED TO BE USED AS GROUT (CRC SEC R606.2.12) SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150-12

- CTURER'S INSTRUCTIONS. (CRC SECTION R703.12) MENT (CRC SECTION R703.8.5) NG. (CRC SECTION R703.8.6)

### LS

- CING STEEL SPECIFICATIONS AND ASTM C645, SEC. 10 AND AISI S230 / ION ANCH<mark>ORAGE, WOOD SILL PLATES AND WOOD WALLS SUPPORTE</mark>D DIRECTLY ON US FOUNDATION

# D, PLASTIC & COMPOSITES

- ND WOOD-BASE PRODUCTS USED FOR LOAD-SUPPORTING PURPOSES SHALL M TO BE APPLICABLE PROVISIONS OF CRC SECTION R302. SAWN LUMBER SHALL IFIED BY A GRADE MARK OF AN ACCREDITED LUMBER GRADING OR INSPECTION AND HAVE DESIGN VALUES CERTIFIED BY AN ACCREDITATION BODY THAT S WITH DOC PS20. IN LIEU OF A GRADE MARK, A CERTIFICATE OF INSPECTION 3Y A LUMBER GRADING OR INSPECTION AGENCY MEETING THAT REQUIREMENTS OLLOWING SECTION CRC SECTION R302.1, R602.1, R802.1 ERVATIVE TREATED WOOD REQUIRED TO BE TREATED UNDER CRC SECTION
- IALL BEAR THE QUALITY MARK OF AN INSPECTION AGENCY WHICH HAS BEEN TED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF RICAN LUMBER STANDARDS TREATED WOOD PROGRAM OR EQUIVALENT. THE MARK SHALL BE ON A STAMPED OR LABEL AFFIXED TO THE PRESERVATIVE-WOOD. CRC SECTION R317.2
- BER SIZES NOTED AND SPECIFIED ON PLANS ARE NOMINAL SIZES UNLESS ALLY INDICATED AS NET SIZE

SERVE IN OPERATING CONDITION ALL ACTIVE UTILITIES REMAINING. HE PREMISES: THE CONTRACTOR SHALL CONFINE HIS WORKMEN, AND THE PARKING OF EN'S VEHICLES TO LIMITS INDICATED BY LAW. ORDINANCE. PERMITS OR DIRECTION OF THE

- OF DRAWINGS: PLANS ARE INTENDED TO SHOW DETAILS FOR A COMPLETE PROJECT. PARTS AILS NOT FULLY SHOWN SHALL BE DETAILED AND EXECUTED ACCORDING TO STANDARD ASS PRACTICE AND IN SIMILAR MANNER AND SPIRIT OF DETAILS WHICH ARE SHOWN. IF THE TOR FINDS DETAILS WHICH IN HIS OPINION ARE UNSOUND OR NOT STANDARDS, IT IS HIS NOTIFY THE ARCHITECT OF THIS FACT. IF HE PERFORMS THE WORK AS DETAILED WITHOUT FIFICATIONS, THEN IT SHALL BE ASSUMED THAT HE DOES NOT OBJECT TO DETAIL. REFER TO
- CATION ON DRAWINGS: NOTE THAT DRAWINGS DO NOT SUPPORT TO SHOW ALL OBJECTS ON THE JOB. BEFORE COMMENCING ANY DEMOLITION, VERIFY ALL OBJECTS TO BE
- IOTE THAT ALL SPECIFIED MATERIALS ARE SUBJECT TO CHANGE UPON APPROVAL BY ALL
- CTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CRC SECTION R404.1.3.3.7.8
- DES OR ORDINANCES WHICH REQUIRES INCREASES OF THE SAME. ORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS, SLEEVES, BOLTS OR OTHER D MATERIALS AND ITEMS MUST BE SECURED AND APPROPRIATELY FASTENED IN THEIR OCATIONS PRIOR TO THE PLACEMENT OF CONCRETE, SUB-CONTRACTOR SHALL VERIFY TION OF HOLD-DOWNS. ANCHOR BOLTS, PA STRAPS, AND OTHER ANCHORAGE MATERIALS
- ALL MATERIALS USED FOR THE CONSTRUCTION AND / OR INSTALLATION OF STONE OR RY VENEER SHALL MEET THE QUALITY STANDARDS AS SET FORTH IN CRC SECTION R703.8 RTAR AND GROUT USED FOR THE CONSTRUCTION AND/OR INSTALLATION OF STONE OR JSED IN MORTAR OR GROUT SHALL BE CLEAN AND FREE OF DELETERIOUS AMOUNTS OF
- FOR MORTARS LISTED IN SECTION SR606.2.8. R606.2.9 AND R606.2.10, MORTAR FOR USE IN RY CONSTRUCTION SHALL MEET THE PROPORTION SPECIFICATIONS OF TABLE R606.2.8. OR OPERTY SPECIFICATION OF ASTM C270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE CTION R606.2.8.1., R606.2.8.2 AND R606.2.8.3 (CRC SECTION R606.2.8)
- HALL CONSIST OF CEMENTITIOUS MATERIAL AND AGGREGATE IN ACCORDANCE WITH 476 OR THE PROPORTION SPECIFICATIONS OF TABLE R606.2.12 TYPE M OR TYPE S MORTAR CH SUFFICIENT WATER HAS BEEN ADDED TO PRODUCE POURING CONSISTENCY SHALL BE
- K SHALL CONFORM TO ASTM C1088-13 FOR SOLID UNITS OF THIN VENEER BRICK SPECIFICALLY SHOWN OTHERWISE ALL BRICK SHALL BE LAID IN A RUNNING BOND
- Y VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL STUDS WITH CORROSION-NT METAL TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A OF 1 1/2 INCHES. WITH NOT LESS THAN 5/8 INCH MORTAR OR GROUT COVER TO OUTSIDE SONRY VENEER SHALL CONFORM TO TABLE R703.8.4(I) (Circa SECTION R703.8.4) AS AN TIVE TO THE AIRSPACE REQUIRED BY TABLE R703.8.4, GROUT SHALL BE PERMITTED TO AIRSPACE. WHERE THE AIRSPACE IS FILLED WITH GROUT, A WATER-RESISTIVE BARRIER IS D OVER STUDS OR SHEATHING. WHERE THE AIRSPACE IS FILLED, REPLACING THE NG AND WATER-RESISTIVE BARRIER WITH WIRE MESH AND APPROVED WATER RESISTIVE BACKED REINFORCEMENT ATTACHED DIRECTLY TO STUD IS PERMITTED. (CRC SECTION
- MASONRY VENEER SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R703.7.3 AND JIREMENTS IN SECTION 12.1 AND 12.3 OF MS 402. ADHERED MASONRY VENEER SHALL BE ED IN ACCORDANCE WITH SECTION R703.7.1, ARTICLE 3.3C OF TOMS 602 OR THE
- SHALL BE LOCATED BENEATH THE FIRST COURSE OF MASONRY ABOVE FINISHED LEVEL ABOVE THE FOUNDATION WALL OR SLAB AND AT OTHER POINTS OF SUPPORT, NG STRUCTURAL FLOORS, SHELF, ANGLES AND LINTELS WHERE THE MASONRY VENEERS GIGNED IN ACCORDANCE WITH SECTION R703.8. SEE SECTION R703.4 FOR ADDITIONAL
- DLES SHALL BE PROVIDED IN THE OUTSIDE WYTHE OF MASONRY WALLS AT A MAXIMUM G OF 33 INCHES ON CENTER. WEEPHOLES SHALL BE LOCATED IMMEDIATELY ABOVE THE
- STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL AND METAL AND
- CTURAL STEEL SHALL CONFORM TO 2022 CRC; ANSI S100, AISI S200 AND ASTM C955 SEC. 8,
- ANCHORED TO THE FOUNDATION IN ACCORDANCE TO CRC SECTION R403.1.6
- S FOR ALL PRESERVATIVE TREATED WOOD INCLUDING NUTS AND WASHERS SHALL BE OF ED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.

- **GLUE LAMINATED LUMBER**
- ALL GLUE LAMINATED TIMBER SHALL MEET THE STANDARDS OF QUALITY AND WORKMANSHIP AS STATED IN CRC SECTION R317.1 AND THE CURRENT EDITION OF THE TIMBER CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STRUCTURAL GLUE LAMINATED TIMBERS SHALL BE MANUFACTURED AND IDENTIFIED AS
- REQUIRED IN ANSI A190.1, ANSI 117 AND ASTM D 3737. (CRC SECTIONS R502.1.3 R602.1.3 AND R802.12) REFER TO THE STRUCTURAL ENGINEER'S CURRENT NOTES, CALCULATIONS AND SPECIFICATIONS
- PROTECTION AGAINST DECAY & TERMITE ALL WOOD IN CONTACT WITH GROUND, EMBEDDED IN CONCRETE IN DIRECT CONTACT WITH THE GROUND OR EMBEDDED IN CONCRETE EXPOSED TO THE OCCUPANCY TO BE PROTECTION OF WOOD OR WOOD BASED PRODUCTS FROM DECAY SHALL BE PROVIDED IN THE LOCATIONS SPECIFIED IN SECTIONS R317.1 SHALL BE NATURALLY DURABLE WOOD OR PRESERVATIVE-TREATED IN ACCORDANCE WITH AWPA UI FOR SPECIES, PRODUCT, PRESERVATIVE AND END USE
- PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA UI-14. WOOD JOIST OR THE BOTTOM OF WOOD STRUCTURAL FLOOR WHEN CLOSER THAN 18 INCHES, OR WOOD GIRDERS ARE CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAWL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION. (CRC SECTION R317.1 (I)).
- WOOD FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8 INCHES FROM EXPOSED GROUND. (SEC R317.1 (2)). SILL AND SLEEPERS ON CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPERVIOUS MOISTURE BARRIER. (C.R..C. SEC R317.1 (3)).
- END OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 1/2 INCH ON TOPS, SIDES, AND ENDS. (SECTIONS R317.1 (4)).
- WOOD SIDING, SHEATHINGS AND WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING CLEARANCES OF LESS THAN 6 INCHES FROM THE GROUND OR LESS THAN 2 INCHES MEASURED VERTICALLY FROM CONCRETE STRESS, PORCH SLABS, PATIO SLABS, AND SIMILAR HORIZONTAL SURFACES EXPOSED TO WEATHER. (CRC SEC R317 (5)).
- WOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO THE WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM WHICH FLOORS OR ROOFS BY AN IMPERVIOUS MOISTURE BARRIER. (SEC R317.1 (6))/ WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING STRIPS OR FRAMING MEMBERS (SEC R317.7 (7)).
- IN GEOGRAPHICAL AREAS WHERE EXPERIENCE HAS DEMONSTRATED A SPECIFIC NEED, APPROVED NATURALLY DURABLE OR PRESSURE-PRESERVATIVE-TREATED WOOD SHALL BE USED FOR THOSE PORTIONS OF WOOD MEMBERS THAT FORM THE STRUCTURAL SUPPORTS OF BUILDINGS, BALCONIES, PORCHES OR SIMILAR PERMANENT BUILDING APPURTENANCES WHEN THOSE MEMBERS ARE EXPOSED TO THE WEATHER WITHOUT ADEQUATE PROTECTION FROM A ROOF, EAVE, OVERHANG OR OTHER COVERING THAT WOULD PREVENT MOISTURE OR WATER
- ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN MEMBERS. MAY INCLUDE SUCH MEMBERS HORIZONTAL MEMBERS SUCH AS GIRDERS, JOIST AND DECKING VERTICAL MEMBERS SUCH AS POSTS, POLES, AND COLUMNS
- BOTH HORIZONTAL AND VERTICAL MEMBERS
- WOOD COLUMNS SHALL BE APPROVED WOOD OF NATURAL DECAY RESISTANCE OR APPROVED PRESSURE PRESERVATIVE TREATED WOOD. (CRC SECTION R317.1.4) **SHEATHING**
- 1. WOOD STRUCTURAL PANEL WALL SHEATHING SHALL CONFORM TO DOS PS I OR DOC PS 2 OR ANSI/APA PRP 210 CSA 0437 OR CSA 0325. PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY (SEC R604.1) WOOD STRUCTURAL PANEL USED AS ROOF SHEATHING SHALL CONFORM TO REQUIREMENTS OF CRC
- SECTION 803.2 REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS CALCULATIONS AND PLANS FOR REQUIRED STRENGTH, GRADE, AND THICKNESS FOR WOOD STRUCTURAL PANEL ROOF SHEATHING AND FOR DIAPHRAGM NAILING.
- REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS, CALCULATIONS AND PLANS FOR REQUIRED STRENGTH, GRADE, AND THICKNESS FOR THICKNESS FOR PLYWOOD FLOOR SHEATHING PANELS AND FOR DIAPHRAGM NAILING AND ADHESIVE REQUIREMENTS
- WHERE APPLICABLE, REFER TO THE SHEAR WALL SCHEDULE FOR REQUIRED STRENGTH, GRADE, AND THICKNESS OF PLYWOOD SHEAR PANELS AND FOR REQUIRED SHEAR WALL NAILING SCHEDULE
- LOOR FRAMING
- REFER TO THE STRUCTURAL ENGINEER'S CURRENT PLAN & CALCULATIONS FOR SIZE, SPACING AND ANCHORAGE OF ALL FLOOR JOISTS; SIZE, LOCATION, AND ANCHORAGE OF ALL FLOOR BEANS AND HEADERS, AND ALL RELATED FRAMING ISSUES THE PLACEMENT OF HOLES IN FLOOR JOIST WEBS SHALL BE PER MANUFACTURER'S SPECIFICATIONS. THE NOTCHING OR CUTTING OF FLOOR JOIST FLANGES IS NOT ALLOWED.
- **ROOF FRAMING**
- ROOF FRAMING SHALL BE PRE-MANUFACTURED ROOF TRUSSES SPACED AT 24 INCHES ON CENTER UNLESS NOTED OTHERWISE. THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER CALCULATIONS AND SHOP
- INGS FOR APPROVAL OF DESIGN LOADS CONFIGU RATION (2 OR 3 POINT BEARING). VOLUMI CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHEREIN THE PROJECT IS TO BE BUILT
- MANUFACTURER IS TO SECURE BUILDING DEPARTMENT APPROVAL OF CALCULATIONS AND SHOP DRAWINGS PROPER TO FABRICATION 4. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST BUILDING CODE FOR ALL LOADS
- MPOSED, INCLUDING LATERAL LOADS AND MECHANICAL EQUIPMENT LOADS. ALL CONNECTORS SHALL BE ICC APPROVED AND OF ADEQUATE STRENGTH TO RESIST ALL DESIGN LOADS
- AN ATTIC ACCESS MINIMUM OPENING ALLOWED IS 22" X 30", PROVIDED THE LARGEST PIECE OF EQUIPMENT CAN BE REMOVED THROUGH THE OPENING. (2022 CALIFORNIA MECHANICAL CODE -SECTION 904.10) ATTIC ACCESS BE PROVIDED AND LOCATED IN A CORRIDOR, HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. THIRTY-INCH-MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE PROVIDED AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS (CRC SEC R807).
- WALL FRAMING
- ROOF FRAMING SHALL BE PRE-MANUFACTURED ROOF TRUSSES SPACED AT 24 INCHES ON CENTER JNLESS NOTED OTHERWISE. THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER CALCULATIONS AND SHOP
- DRAWINGS FOR APPROVAL OF DESIGN LOADS CONFIGURATION (2 OR 3 POINT BEARING), VOLUME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY PROFESSIONAL ENGINEER
- REGISTERED IN THE STATE WHEREIN THE PROJECT IS TO BE BUILT MANUFACTURER IS TO SECURE BUILDING DEPARTMENT APPROVAL OF CALCULATIONS AND SHOP
- DRAWINGS PROPER TO FABRICATION TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST BUILDING CODE FOR ALL LOADS IMPOSED, INCLUDING LATERAL LOADS AND MECHANICAL EQUIPMENT LOADS. ALL CONNECTORS SHALL BE ICC APPROVED AND OF ADEQUATE STRENGTH TO RESIST ALL DESIGN
- LOADS. AN ATTIC ACCESS MINIMUM OPENING ALLOWED IS 22" X 30", PROVIDED THE LARGEST PIECE OF EQUIPMENT CAN BE REMOVED THROUGH THE OPENING. (2022 CALIFORNIA MECHANICAL CODE -SECTION 904.10) ATTIC ACCESS BE PROVIDED AND LOCATED IN A CORRIDOR, HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. THIRTY-INCH-MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE PROVIDED AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS (CRC SEC R807).
- FIRE BLOCKING
- 1. IN COMBUSTIBLE CONSTRUCTION, FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF BOTH VERTICAL AND HORIZONTAL CONCEALED DRAFT OPENINGS AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. FIREBLOCKING SHALL BE PROVIDED IN A WOOD-FRAMED CONSTRUCTIONS IN THE LOCATIONS SPECIFIED IN CRC SECTIONS.
- FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS: A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS AND STUDS OR STAGGERED STUDS, AS FOLLOWS: a. VERTICALLY AT THE CEILING AND FLOOR LEVELS
- b. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
- ENCLOSED SPACES UNDER STAIRS SHALL ALSO COMPLY WITH CRC SECTION R302.7 AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES, AND WIRES AT CEILING & FLOOR LEVELS, WITH AN APPROVED MATERIAL TO RESIST FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS
- E. FOR THE FIREBLOCKING AT CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19 3. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING UNIT SEPARATION. (CRC SECTION R302.11).
- 4. FIRE BLOCKING SHALL CONSIST OF 2 INCHES NOMINAL LUMBER OR TWO THICKNESS OF 1-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS OR ONE THICKNESS OF 28/32-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 23/32-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS OF 3/4 -INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD OR ONE-HALF-INCH GYPSUM BOARD OR ONE-QUARTER-INCH CEMENT-BASED MILLBOARD OR BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE OR CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 FOR SPECIFIED APPLICATIONS. (CRC SEC R302.11.1).
- WALLS CONSTRUCTED USING PARALLEL OR STAGGERED STUDS FOR SOUND TRANSMISSION CONTROL SHALL HAVE FIRE BLOCKS OF BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH 10-FOOT HORIZONTAL FIREBLOCKING (CRC SEC R302.11.1.1)

5. IN COMBUSTIBLE CONSTRUCTION WHERE THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF FLOOR-CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFT-STOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS WHERE THE ASSEMBLY IS

ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR-CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES: CEILING IS SUSPENDED UNDER THE FLOOR FRAMING FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS (CRC SECTION R302.12)

6. DRAFTSTOPPING MATERIALS SHALL NOT BE LESS THAN 1/2-INCH GYPSUM BOARD, 3/8-INCH WOOD STRUCTURAL PANELS OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. DRAFTSTOPPING SHALL BE INSTALLED PARALLEL TO THE FLOOR FRAMING MEMBERS UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL. INTEGRITY OF THE DRAFTSTOPS SHALL BE MAINTAINED. (CRC SEC R302.12.1)

### 07 -THERMAL & MOISTURE PROTECTION

PROVIDE ALL FLASHING, COUNTER-FLASHING, BITUMEN, MEMBRANE WATERPROOFING, SHEET METAL, CAULKING, SEALANTS, ELECTROMERIC WALKING SURFACES, AND RAIN GUTTERS AND/OR DIVERTERS WHERE REQUIRED, TO MAKE WORK COMPLETELY WATERPROOF.

THE TERMS "CORROSION RESISTANT" OR "NON-CORROSIVE" THE ABILITY OF A MATERIAL TO WITHSTAND DETERIORATION OF ITS SURFACE OR ITS PROPERTIES WHEN EXPOSED TO ITS ENVIRONMENT. (CRC SEC 202). WHEN AN ELEMENT IS REQUIRED TO BE CORROSION RESISTANT OR NON-CORROSIVE, ALL OF ITS PARTS, SUCH AS SCREWS, NAILS, WIRE, DOWELS, BOLTS, NUTS, WASHERS, SHIMS, ANCHORS, TIES AND ATTACHMENTS, SHALL BE CORROSION RESISTANT MATERIALS USED FOR CONSTRUCTION OF EXTERIOR WALLS SHALL COMPLY WITH THE PROVISIONS OF SECTION R703. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING WATER RESISTIVE BARRIER WHICH IS A MINIMUM OF ONE LAYER OF NO. 15 ASPHALT FELT COMPLYING WITH ASTM D226 FOR TYPE I FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS, AS DESCRIBED IN SEC R703.2 PROTECTION AGAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED IN ACCORDANCE WITH THE CALIFORNIA ENERGY CODE (CRC SECTION R703.1.1) EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH WEATHER RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING AS DESCRIBED IN SECTION R703.4 (CRC SECTION R703.1)

APPROVED CORROSION RESISTANT FLASHING SHALL BE APPLIED SHINGLE FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO BUILDING STRUCTURAL FRAMING COMPONENTS SELF-ADHERED MEMBRANES USED AS FLASHING SHALL AAMA 711. FLUID-APPLIED MEMBRANES USED AS FLASHING IN EXTERIOR WALLS SHALL COMPLY WITH AAMA 714. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION RESISTANT FLASHING SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:

A. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE

AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS. UNDER AND THE ENDS OF MASONRY, WOOD, OR METAL COPINGS AND SILLS

CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIMS

WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION

F. AT WALL AND ROOF INTERSECTIONS

AT BUILT-IN GUTTERS

BALCONIES, LANDINGS, EXTERIOR STAIRWAYS, OCCUPIED ROOFS AND SIMILAR SURFACES EXPOSED TO THE WEATHER AND SEALED UNDERNEATH SHALL BE AND SLOPED A MINIMUM OF 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTALLY (2% SLOPE) FOR DRAINAGE (CRC SECTION R311.3) PROVIDE A MINIMUM 2 INCH DROP FROM FINISHED INTERIOR FLOOR ELEVATIONS TO THE HIGHEST FLOOR ELEVATION OF ANY ADJOINING DECK OR BALCONY. PROVIDED THAT THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR. (CRC SECTION R311.3.1) ELASTOMERIC OR MEMBRANE DECK COATINGS SHALL BE INSTALLED PER MANUFACTURER'S

SPECIFICATIONS AT DECKS AND BALCONIES. COLOR FINISH AND DETAILING SHALL BE APPROVED BY **OWNER / BUILDER AND ARCHITECT** 9. UNLESS DESIGNED TO DRAIN OVER DECK EDGES, DRAINS, AND OVER-FLOWS ADEQUATE SIZE SHALL

BE INSTALLED AT THE LOW POINTS OF DECK OR BALCONY. 10. ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (S.M.A.C.N.A.). THE ARCHITECTURAL SHEET METAL MANUAL, AND SEALANT, WATERPROOFING AND RESTORATION INSTITUTE'S (S.W.R.I.) GUIDE - "SEALANT'S: THE PROFESSIONAL'S GUIDE".

11. SHEET METAL SHALL BE STEEL, HOT-DIPPED, TIGHT COATED IN GALVANIZED, CONFORMING TO ASTM A525 AND SHALL BE A NUMBER 24 SHEET METAL GAGE UNLESS OTHERWISE NOTED IN THESE NOTES. PLANS. OR MANUFACTURER'S SPECIFICATIONS. 12. SHEET ALUMINUM SHALL CONFORM WITH FEDERAL SPECIFICATIONS QQ-A-359 AND ASTM B209

ALLOY 3003. 13. FLASHING FOR ASPHALT SHINGLES SHALL COMPLY WITH SECTION R905.2.8. FABRICATE SHEET METAL WITH FLAT LOCK SEAMS AND SOLDER WITH TYPE AND FLUX RECOMMENDED BY MANUFACTURER. SEAL ALUMINUM SEAMS WITH EPOXY METAL SEAM CEMENT. WHERE REQUIRED FOR STRENGTH, RIVET, SEAMS, AND JOINTS,

14. SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE IN ACCORDANCE WITH APPLICABLE STANDARDS TO PROVIDE A PERMANENTLY WATER-PROOF, WEATHER RESISTANT INSTALLATION 15. BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL 0.019-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 POUNDS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMUM NOMINAL 0.019-INCH THICKNESS. (CRC SECTION R905.2.8.1) 16. ROOF VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BEFORE APPLYING SHINGLES. VALLEY LINING OF THE FOLLOWING TYPES SHALL BE

PERMITTED: A. FOR OPEN VALLEYS (VALLEY LINING EXPOSED) LINED WITH METAL. THE VALLEY LINING SHALL BE NOT LESS THAN 24 INCHES WIDE AND OF ANY OF THE CORROSION-RESISTANT METALS IN

TABLE R905.2.8.2. B. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL-SURFACED ROLL ROOFING COMPLYING WITH ASTM D 3909 OR ASTM D 6380 CLASS M, SHALL BE PERMITTED. THE BOTTOM

LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE. C. FOR CLOSED VALLEYS (VALLEYS COVERED WITH SHINGLES), VALLEY LINING OF ONE PLY OF SMOOTH ROLL ROOFING COMPLYING WITH ASTM D 6380 AND AT LEAST 36 INCHES WIDE OR VALLEY LINING AS DESCRIBED IN ITEM 1 OR 2 ABOVE SHALL BE PERMITTED. SELF-ADHERING POLYMER MODIFIED BITUMEN UNDERLAYMENT COMPLYING WITH ASTM D1970 SHALL BE

PERMITTED IN LIEU OF THE LINING MATERIAL. (CRC SECTION R905.2.8.2) 17. BASE FLASHING AGAINST A VERTICAL SIDEWALL SHALL BE CONTINUOUS OR STEP FLASHING SHALL NOT BE LESS THAN 4 INCHES IN HEIGHT AND 4 INCHES IN WIDTH AND SHALL DIRECT WATER AWAY FROM THE VERTICAL SIDEWALL ONTO THE ROOF OR GUTTER. (CRC SECTION R905.2.8.3). FLASHING ONTO THE ROOF OR GUTTER. (CRC SECTION R905.2.8.3). FLASHING AGAINST VERTICAL FRONT WALL. AS WELL AS SOIL STACK, VENT PIPE AND CHIMNEY FLASHING, SHALL BE APPLIED IN ACCORDANCE WITH THE ASPHALT SHINGLE MANUFACTURER'S PRINTED INSTRUCTIONS (CRC SECTION R905.2.8.4) ASPHALT SHINGLES ROOF MATERIAL)

18. AT THE JUNCTURE OF ROOF VERTICAL SURFACES, FLASHING, AND COUNTER-FLASHING SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 9 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND, WHERE OF METAL, - SHALL NOT BE LESS THAN 0.019 INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT METAL. THE VALLEY FLASHING SHALL EXTEND AT LEAST 11 INCHES FROM THE CENTERLINE EACH WAY AND HAVE A SPLASH DIVERTER RIB NOT LESS THAN 1 INCH HEIGHT AT THE FLOW LINE FORMED AS PART OF THE FLASHING. SECTIONS OF FLASHING SHALL HAVE AN END LAP OF NOT LESS THAN 4 INCHES. FOR ROOF SLOPES OF THREE UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) AND GREATER, VALLEY FLASHING SHALL HAVE A 36-INCHES WIDE UNDERLAYMENT OF ONE LAYER OF TYPE 1 UNDERLAYMENT RUNNING THE FULL LENGTH OF THE VALLEY. IN ADDITION TO THE OTHER REQUIRED UNDERLAYMENT. IN AREAS WHERE THE AVERAGE DAILY TEMPERATURE IN JANUARY IS 25 DEGREES F OR LESS, METAL VALLEY FLASHING UNDERLAYMENT SHALL BE SOLID-CEMENT TO THE ROOFING UNDERLAYMENT OR SLOPES LESS THAN SEVEN UNITS VERTICAL IN 12 UNITS HORIZONTAL (58-PERCENT SLOPE) OR BE OF SELF ADHERING POLYMER MODIFIED BITUMEN SHEET. (CRC SEC R905.3.8)

### EXTERIOR WALL COVERINGS

SEE FINISHES IN THESE GENERAL NOTES FOR EXTERIOR PLASTER

ALL EXTERIOR MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION THE CALIFORNIA BUILDING CODE AND ALL STATE AND LOCAL CODES

WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED PER CRC SECTION R703.2 AND WHEN APPLIED OVER WOOD BASE SHEATHING, SHALL INCLUDE TWO LAYERS OF GRADE 'D' PAPER (CRC SECTION R703.7.3)

FIBER-CEMENT PANELS SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C1186 TYPE A, MINIMUM GRADE 11 OR ISO 8338, CATEGORY A, MINIMUM CLASS 2. PANELS SHALL BE INSTALLED WITH LONG DIMENSIONS EITHER PARALLEL OR PERPENDICULAR TO FRAMING, VERTICAL AND HORIZONTAL JOINTS SHALL OCCUR OVER FRAMING MEMBERS AND SHALL BE PROTECTED WITH CAULKING, OR WITH BATTENS OR FLASHING OR BE VERTICAL OR HORIZONTAL SHIPLAP OR OTHERWISE DESIGNED TO COMPLY WITH SECTION R703.1. PANEL SIDING SHALL BE INSTALLED WITH FASTENERS IN ACCORDANCE WITH TABLE R703.3 (1) OR APPROVED MANUFACTURERS' INSTRUCTIONS. (CRC SECTION R703.10.1) FIBER-CEMENT LAP SIDING HAVING A MAXIMUM WIDTH OF 12 INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C1186, TYPE A, MINIMUM GRADE II OR ISO 8336, CATEGORY A, MINIMUM CLASS 2. LAP SIDING SHALL BE LAPPED A MINIMUM OF 1 1/4 INCHES AND LAP SIDING NOT HAVING TOUNGE-AND-GROVE END JOINTS SHALL HAVE THE END PROTECTED WITH CAULKING, COVERED WITH AN H-SECTION JOINT COVER LOCATED OVER A STRIP OF FLASHING OR SHALL BE DESIGNED TO COMPLY WITH SECTION R703.1. LAP SIDING COURSES SHALL BE INSTALLED WITH THE FASTENER HEADS EXPOSED OR CONCEALED, IN ACCORDANCE WITH TABLE R703.3(1) OR APPROVED MANUFACTURERS' INSTRUCTIONS (CRC R703.10.2)



1000 SQ. FT. MODEL (996

W/ ADAPTABLE FEATURES

SQ.FT.)

PWP23-003

### DEPARTMENT OF PUBLIC WORKS AND PLANNING



### **CAPITAL PROJECTS** DIVISION

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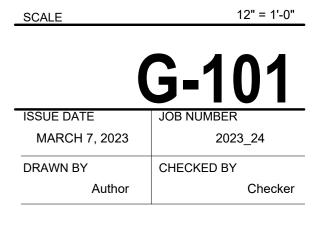


UPDATE

JULY 10, 2023

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**GENERAL NOTES** 



- **INSULATION MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS AND VAPOR-PERMEABLE** MEMBRANES INSTALLED WITHIN FLOOR-CEILINGS ASSEMBLIES, ROOF CEILING ASSEMBLIES, WALL ASSEMBLIES, CRAWL SPACES, AND ATTICS SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 150 WHERE TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. EXCEPTIONS: WHEN SUCH MATERIALS ARE INSTALLED IN CONCEALED SPACES, THE FLAME SPREAD INDEX AND SMOKE-DEVELOPED INDEX LIMITATIONS DO NOT APPLY TO THE FACINGS, PROVIDED THAT THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH UNEXPOSED SURFACE OF THE CEILING, FLOOR OR WALL FINISH (CRC SEC R302.10.1 EXCP)
- DUCT INSULATION AND INSULATION IN PLENUMS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT CALIFORNIA MECHANICAL CODE
- BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OTHER APPROVED NON-RIGID MATERIAL SHALL BE PERMITTED FOR COMPLIANCE WITH 10 FOOT HORIZONTAL FIRE BLOCKING IN WALLS CONSTRUCTED USING
- PARALLEL ROWS OF STUDS OR STAGGERED STANCE. (CRC SECTION ARE 302.1 1.1.1) FOR PROJECTS WITHIN CALIFORNIA TO ENERGY EFFICIENCY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO INSULATION "R" VALUES, PERCENTAGE OF GLAZING, GLAZING "U" VALUES, ETC. SHALL BE DETERMINED BY THE CALIFORNIA ENERGY CODE. A PART OF TITLE 24 AND LOCATED IN THE PLANS ON THE ENERGY COMPLIANCE SHEETS(S) (CFI – R). ENERGY CALCULATIONS PREPARED IN ACCORDANCE WITH STATE CODES ARE ALSO REQUIRED AS PART OF THE BUILDING DEPARTMENT SUBMITTAL
- FOR PROJECTS WITHIN CALIFORNIA BUILDER AND INSULATION INSTALLER MUST PROVIDE A CERTIFICATE OF INSULATION AND POST IT IN CONSPICUOUS LOCATION FOR CALIFORNIA STATE ENERGY CODE THE ENERGY REQUIREMENTS FOR PROJECTS OUTSIDE OF CALIFORNIA SHALL BE BASED ON MODEL, ENERGY
- CODE OR INTERNATIONAL ENERGY CONSERVATION CODE. REFER TO LOCAL JURISDICTION. THE FOLLOWING OPENINGS IN THE BUILDING ENVELOPE MUST BE CAULKED SEALED OR WEATHERSTRIP TO PROTECT AGAINST COLD AIR, INFILTRATION OR HEAT LOSS:
- A. EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALL PANELS, WALL, WALL SOLE PLATES AND FLOORS AND INTERIOR WALLS, CEILINGS AND FLOORS; OPENINGS FOR PLUMBING, ELECTRICAL AND GAS LINES IN EXTERIOR OPENINGS IN THE ATTIC FLOOR, (SUCH AS WERE CEILING, PANELS ME INTERIOR AND
- EXTERIOR WALLS) C. ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE.

### <u>ROOFING MATERIALS</u>

- ROOFING MATERIAL SHALL BE CLASS "A" UNLESS OTHERWISE APPROVED BY OWNER / BUILDER THE QUALITY AND DESIGN OF ROOFING MATERIALS AND THEIR FASTENINGS SHALL CONFORM TO THE
- APPLICABLE STANDARDS LISTED IN CRC SECTION R905.3 (FOR CLAY & CONCRETE TILE)
- CLAY OR CONCRETE TILE SHALL COMPLY WITH CRC STANDARD R905.3.5 ALL MATERIAL SHALL BE DELIVERED IN PACKAGES BEARING THE MANUFACTURER'S LABEL OR IDENTIFYING MARK. (CRC SECTION R904.4) COMPOSITION ROOFING SHINGLES SHALL BE OF ASPHALT OR APPROVED RELATED MATERIALS AND MEET THE
- **REQUIREMENTS OF CRC SECTION R905.2** ASPHALT SHALL BE DELIVERED IN CARTONS BEARING THE NAME OF THE MANUFACTURER'S IDENTIFYING MARKS AND APPROVED TESTING AGENCY LABELS REQUIRED. BULK SHIPMENTS SHALL BE ACCOMPANIED BY 9. THE SAME INFORMATION ISSUED IN THE FORM OF A CERTIFICATE OR ON A BILL OF LADING BY THE MANUFACTURER (CRC SECTION R904.4)
- ASPHALT SHINGLES SHALL BE FASTENED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS, BUT NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE (CRC **SECTION R905.2.6**
- CLAY OR CONCRETE ROOF TILES INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF CRC SECTION R905.3. UNDERLAYMENT SHALL COMPLY WITH SECTION 905.1.1. AND TYPE AND CLASSIFICATION INDICATED ON TABLE R905.1.1(1). UNDER-LAYMENT SHALL BE APPLIED PER TABLE R905.1.1(2) AND ATTACHED PER TABLE 905.1.1(3)8. TYPE, COLOR, AND PROFILE OF ALL ROOFING TILES SHALL BE APPROVED BY OWNER / /BUILDER AND
- ARCHITECT
- BUILT-UP ROOFING FLY MATERIALS SHALL BEAR THE LABEL OF AN APPROVED AGENCY HAVING A SERVICE FOR THE INSPECTION OF MATERIAL AND FINISHED PRODUCTS DURING MANUFACTURE. (CRC SECTION R904.4) 10. BUILT-UP ROOFING SHALL BE INSTALLED ACCORDING TO SECTION R905.9 AND THE MANUFACTURER'S
- INSTALLATION INSTRUCTIONS AND (CRC SECTION R905.9.3).

### 08 - OPENINGS

- SEE OPENING SCHEDULE FOR SIZES AND TYPES OF DOOR AND WINDOWS, AND FOR ANY DIVIDED LITE PATTERNS. COLORS SHALL BE APPROVED BY THE OWNER/BUILDER. EGRESS DOOR SHALL BE SIDE HINGE SWINGING, AND SHALL PROVIDE A CLEAR WIDTH NO LESS THAN 32
- INCHES AND SHOULD OPEN DIRECTLY INTO A PUBLIC WAY, OR YARD OR COURT THAT OPENS TO A PUBLIC WAY. EXCEPTION: PRIVATE GARAGE AND DOORS WITHIN OR SERVING A SINGLE DWELLING UNIT IN GROUPS R –2 AND R-3.(CRC SECTION R311.)
- THE DOOR FROM THE GARAGE TO THE HOUSE SHALL BE SOLID WOOD DOORS NO LESS THAN 1 3/8 INCHES AND THICKNESS, SOLID OR HONEYCOMB CORE STEEL. DOORS NO LESS THAN 1 3/8 INCHES THICK OR 20 MINUTES FIRE RATED DOORS. EQUIPPED WITH A SELF CLOSING OR AUTOMATIC CLOSING AND SELF LATCHING DEVICE. (CRC SECTION R302.5.1.)
- PROVIDE SECURITY HARDWARE FOR ALL DOORS AND WINDOWS IN CONFORMANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS. ALL AUTOMATIC GARAGE DOOR OPENERS IF PROVIDED, SHALL BE LISTED IN ACCORDANCE WITH YOU UL325.
- SEE HEALTH AND SAFETY CODE SECTION 19890 AND 19891 FOR ADDITIONAL PROVISIONS FOR RESIDENTIAL GARAGE DOOR OPENERS.(CRC SECTION R309.4.) ALL SLIDING OR SWINGING DOORS AND WINDOWS OPENING TO THE EXTERIOR OR TO UNCONDITIONAL AREA
- SHALL BE FULLY WEATHER-STRIPPED, GASKETED, OR OTHERWISE TREATED TO LIMIT AIR INFILTRATION. ALL MANUFACTURED WINDOWS AND SLIDING GLASS DOORS SHALL MEET AIR INFILTRATION STANDARDS OF THE CURRENT AMERICAN NATIONAL STANDARDS INSTITUTE, ASTM. E283-73 WITH A PRESSURE DIFFERENTIAL OF 1.57 POUNDS PER SQUARE FOOT, AND SHALL BE CERTIFIED AND LABELED.
- ESCAPE OR RESCUE WINDOW SHALL HAVE A NET CLEAR OPENING NOT LESS THAN 5.7 SQUARE FEET. THE NET CLEAR HEIGHT OPENING SHALL NOT BE LESS THAN 24 INCHES AND THE NET CLEAR WITH NO LESS THAN 20 INCHES. THE NET CLEAR OPENING DIMENSIONS REQUIRED TO BE OBTAINED BY THE NORMAL OPERATION OF THE EMERGENCY ESCAPE AND RESCUE OPENING FROM THE INSIDE THE WINDOW SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44 INCHES MEASURED FROM THE FLOOR. (CRC SECTIONS R310.2.1, R310.2.2)
- BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESCUE OPENINGS, BULKHEAD, ENCLOSURES, OR WINDOW WELLS THAT SERVES SUCH OPENINGS, PROVIDED THE MINIMUM NET CLEAR OPENING SIZE COMPLIES WITH SECTION R310.1.1 AND SUCH DEVICES SHALL BE RELEASABLE OR R310.2.3 REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY. TOOL, SPECIAL KNOWLEDGE, OR FORCE, GREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING. THE RELEASE MECHANISM FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENINGS. THE RELEASE MECHANISM SHALL BE MAINTAINED OPERABLE AT ALL TIMES. A. SUCH BARS, GRILLS, GRATES, OR ANY SIMILAR DEVICES SHALL BE EQUIPPED WITH AN APPROVED EXTERIOR RELEASE DEVICE FOR USE BY THE FIRE DEPARTMENT ONLY WHEN REQUIRED BY AUTHORITY
- JURISDICTION WHERE SECURITY BARS, (BURGLAR BARS) ARE INSTALLED ON EMERGENCY EGRESS AND RESCUE WINDOWS OR DOOR SUCH DEVICES SHALL COMPLY WITH CALIFORNIA BUILDING STANDARDS, CODE, PART 12, CHAPTER 12–3, AND OTHER APPLICABLE PROVISIONS OF THIS CODE (CRC SECTION R310.4)
- 10. ALL HABITABLE ROOM, SHALL HAVE AN AGGREGATED GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS. NATURAL VENTILATION, SHALL BE THROUGH WINDOWS, DOORS, LOUVERS, OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENING SHALL BE PROVIDED READY ACCESS, OR SHALL OTHERWISE BE READILY CONTROLLED BY THE BUILDING OCCUPANTS. (CRC SEC. R303.1) 11. ALL HABITABLE ROOMS MINIMUM OPENABLE AREA TO THE OUTDOOR SHOWER BE 4 PERCENT OF THE FLOOR
- AREA BEING VENTLESS. (CRC SECTION R303.1.) THE GLAZED AREAS NEED NOT BE OPENABLE WHERE THE OPENINGS IS NOT REQUIRED BY SECTION R310 AND A WHOLE HOUSE MECHANICAL VENTILATION SYSTEM IS INSTALLED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE CRC SECTION R303.1 EXCEPTION 1. 12. BATHROOMS, WATER CLOSET, COMPARTMENTS, AND OTHER SIMILAR ROOMS BE PROVIDED WITH AGGREGATED GLAZING AREAS IN WINDOWS OF NOT LESS THAN 3 SQUARE FEET ONE-HALF OF WHICH MUST BE
- OPENABLE (CRC SECTION R303.3.) 13. SEE THE MECHANICAL AND PLUMBING SECTION OF THESE NOTES FOR MECHANICAL ALTERNATIVES TO THE NATURAL VENTILATION REQUIREMENTS OF CRC SECTION R303

### <u>GLAZING</u>

- GLAZING SUBJECT TO HUMAN IMPACT SHALL COMPLY WITH CRC SECTION R308 EXCEPT AS INDICATED IN SECTION R308.1.1 EACH PANE OF GLAZING INSTALLED IN HAZARDOUS LOCATION AS DEFINED IN SECTION R308.4 SHALL BE PROVIDED WITH THE MANUFACTURES DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS, AND THE SAFETY GLAZING<sup>9</sup>. STANDARD WITH WHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION TYPE SHALL BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DESTROYED. A LABEL SHALL BE PERMITTED IN LIEU OF MANUFACTURES DESIGNATION (CRC SECTION R308.1.)
- THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING: A. GLAZING IN FIX AN OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS, EXCEPT LOUVERED WINDOWS AND JALOUSIES PER SECTION R308.3 EXCEPTION 1
- B. GLAZING IN FIXED, OR OPERABLE PANELS ADJACENT TO A DOOR SHALL BE CONSIDERED HAZARDOUS LOCATION WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE FLOOR, OR WALKING SURFACE AND MEETS THE FOLLOWING CONDITIONS: a. GLAZING IS WITHIN 24 INCHES OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION
- WHERE THE GLAZING IS ON THE WALL LESS THAN 180 DEGREES FROM THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES OF THE HINGE SIDE OF IN SWINGING DOOR C. GLAZING IN FIXED OR OPERABLE PANEL THAT MEETS ALL CONDITIONS:
- EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQ. FT. EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR
- EXPOSED TOP EDGE, GREATER THAN 36 INCHES ABOVE THE FLOOR
- ONE OR MORE WALKING SERVICES WITHIN 36 INCHES MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF GLAZING D. GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER, PANELS, AND NONSTRUCTURAL
- INFILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE. GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPA, WHIRLPOOLS
- SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS INDOORS OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.
- GLAZING ADJACENT TO THE STAIRWAYS AND RAMPS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS.
- G. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF THE STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN 60 INCHES HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING

- <u>GLAZING (CONT.)</u> H. GLAZING IN ALL UNFRAMED SWINGING DOORS I. GLAZING IN STORM DOORS (CRC SECTION R309.4) SEE SECTION FOR EXCEPTIONS
- REQUIREMENTS OF ANSI Z97.1.
- MIRROR SHALL BE A MINIMUM OF 3/16 INCH POLISHED PLATE GLASS REGULAR, FLOAT, WIRED AND PATTERN GLASS IN JALOUSIES AND LOUVERED WINDOW SHALL BE, NOT LESS THAN NOMINAL 3/16 INCH AND NOT MORE THAN 48 INCH IN LENGTH. EXPOSED GLASS EDGES SHALL BE SMOOTH. (CRC SECTION R308.2)
- GLAZING SUPPORT AND FRAMING SHALL COMPLY WITH CBC SECTIONS 2403.2 AND 2403.3 HINGED SHOWER DOOR SHALL OPEN OUTWARD GLAZING SHALL BE IN ACCORDANCE WITH ENERGY COMPLIANCE CALCULATIONS, CALIFORNIA ENERGY CODE (TITLE 24).

### 09 -FINISHES

- <u>GYPSUM BOARD</u> REQUIREMENT SHALL GOVERN.
- PIPING IN CONNECTION WITH PLUMBING SYSTEM SHALL BE INSTALLED SO THAT PIPING OR CONNECTION GYPSUM WALLBOARD SHALL NOT BE INSTALLED UNTIL WEATHER PROTECTION FOR THE INSTALLATION IS WILL NOT BE SUBJECT TO UNDER STRAINS OR STRESSORS AND PROVISION SHALL BE MADE FOR PROVIDED. EXTERIOR SHEATING SHALL BE DRY BEFORE APPLYING EXTERIOR COVER. (CRC SECTION R701.2) EXPANSION, CONTRACTION, AND STRUCTURAL SETTLEMENT. NO PLUMBING PIPING SHALL BE DIRECTLY ALL EDGES AND ENDS OF GYPSUM WALLBOARD SHALL OCCUR ON THE FRAMING MEMBERS, EXCEPT THOSE EMBEDDED IN CONCRETE OR MASONRY. NO STRUCTURAL MEMBERS SHALL BE SERIOUSLY WEEKEND OR EDGES AND ENDS THAT ARE PERPENDICULAR TO THE FRAMING MEMBERS (CRC SECTION R702.3.5) IMPAIRED BY CUTTING NOTCHING OR OTHERWISE (CPC SECTION 312.2 GYPSUM BOARD AND GYPSUM PANEL PRODUCTS SHALL BE INSTALLED PERPENDICULAR TO CEILING
- PROTECTIVELY, COATED PIPE, OR TUBING SHALL BE INSPECTED AND TESTED, AND ANY VISIBLE VOID
- FRAMING MEMBERS. END JOINTS OF ADJACENT COURSES OF BOARD AND PANELS SHALL NOT OCCUR ON DAMAGE OR IMPERFECTION TO THE PIPE COATING SHALL BE REPAIRED IN AN APPROVED MANNER THE SAME JOIST. (CRC SECTION R702.3.6) NO WATER, SOIL, OR WASTE PIPE SHALL BE INSTALLED OR PERMITTED OTHERWISE OF A BUILDING, AN 5. FASTENERS SHALL BE SPACED, NOT MORE THAN 7 INCHES ON CENTER AT ALL SUPPORTS, INCLUDING ATTIC OR CRAWL SPACES, OR IN AN EXTERIOR WALL, UNLESS WERE NECESSARY ADEQUATE PROVISION IS 2. PERIMETER, BLOCKING, AND NOT LESS THAN 3/8 INCH FROM THE EDGES AND ENDS OF THE GYPSUM BOARD MADE TO PROTECT SUCH PIPE FROM FREEZING (CPC SECTION 312.6)
- (CRC SECTION R702.3.6 (D)) 6 SCREWS FOR ATTACHING GYPSUM BOARD AND GYPSUM PANEL PRODUCTS TO WOOD FOR FRAMING SHALL BE TYPE W OR TYPE S IN ACCORDANCE WITH ASTM C1002 AND SHALL PENETRATE THE WOOD NOT LESS
- THAN 5/8 INCH (CRC SECTION R702.3.5.1) SUPPORTS AND FASTENERS USED TO ATTACH GYPSUM BOARD AND GYPSUM PANEL PRODUCT SHALL
- 12. MATERIALS FOR DRAINAGÉ PIPING SHALL BE IN ACCORDANCE WITH ONE OF THE REFERENCED STANDARDS 5. COMPLY WITH TABLE R702.3.5. (CRC SECTION R702.3.5) IN TABLE 701.2 (CPC SEC 701.2) ABS AND PVC DMV PIPING INSTALLATIONS SHALL BE INSTALLED IN WHERE TWO LAYERS OF GYPSUM WALLBOARD ARE REQUIRED, THE BASE LAYER OF GYPSUM WALLBOARD ACCORDANCE WITH APPLICABLE STANDARD REFERENCED IN TABLE 1701.2 AND THE FIRESTOP SHALL BE APPLIED WITH FASTENERS OF THE TYPE AND SIZE AS REQUIRED FOR THE NON-ADHESIVE PROTECTION REQUIREMENTS IN CALIFORNIA BUILDING CODE.ABS AND PVC INSTALLATIONS ARE LIMITED TO APPLICATION OF SINGLE PLY GYPSUM WALLBOARD NOT MORE THAN TWO STORIES OF AREAS OF RESIDENTIAL ACCOMMODATION (CPC SECTIONS 701.2(2) AND MATERIALS USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREA AND WALL PANELS IN SHOWER
- 701.2(2)(A)) AREA. SHALL BE OF MATERIAL LISTED IN THE TABLE R702.4.2 AND INSTALLED IN ACCORDANCE WITH THE MATERIALS FOR DRAINAGE FITTINGS SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS MANUFACTURERS RECOMMENDATIONS. (CRC SECTION R702.4.2) REFERENCED IN TABLE 701.2 OF THE SAME DIAMETER AS THE PIPING SERVED AND SUCH FITTINGS SHALL WATER RESISTANT GYPSUM BACKING BOARD USED ON BASE OR BACKER FOR ADHESIVE APPLICATION OF BE COMPATIBLE WITH THE TYPE OF PIPE USED. (CPC SECTION 701.3) CERAMIC TILE OR OTHER REQUIRED NONABSORBENT FINISH MATERIAL SHALL CONFIRM TO ASTM C1396, WEAR WAIST LINE DROPS OCCUR IN A LOCATION WHERE THE SOUND OF FLUSH TOILET MAY BE C1178, OR C1278. USE OF WATER RESISTANT GYPSUM, BACKING BOARD SHALL BE PERMITTED ON CEILINGS. UNDESIRABLE, SUCH AS IN WALLS ARE PARTITIONS ADJACENT TO EATING ROOMS, USE CAST IRON TYPING CUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS SHALL BE SEALED AS OR SIMILAR APPROVED, HARD OR DENSE PIPING AND/OR INSULATE STUD BAY IN CLOSING PIPE TO MITIGATE RECOMMENDED BY MANUFACTURER (CRC SECTION R702.3.7). SOUND 11. WATER RESISTANT GYPSUM, WALLBOARD SHALL NOT BE USED IN FOLLOWING LOCATIONS:
- A. OVER A CLASS I OR II VAPOR RETARDER IN SHOWER OR TUB COMPARTMENT

### <u>METAL LATH</u>

- ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION RESISTANT MATERIAL BACKING OR A LATH SHALL PROVIDE SUFFICIENT RIGIDITY TO PERMIT PLASTER APPLICATION ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION RESISTANT MATERIALS. EXPANDED METAL OR WOVEN WIRE LATCH SHALL BE ATTACHED WITH 1 1/2 INCH LONG, IL GAGE NAILS HAVING A 7/16 INCH HEAD OR 7/8 INCH LONG, 16 GAGE STAPLES, SPACED NO MORE THAN 6 INCHES OR AS OTHERWISE (CRC SECTION R703.7.1)
- GYPSUM LATH OR GYPSUM BOARD SHALL NOT BE USED AS BACKING, EXCEPT THAT ON HORIZONTAL SUPPORTS OF CEILING OR ROOF SOFFITS. IT MAY BE USED AS BACKING FOR METAL LATH, OR WIRE, FABRIC LATH AND CEMENT PLASTER. METAL LATH OR WIRE FABRIC LATH SHALL BE APPLIED WITH A LONG DIMENSION OF THE SHEETS
- PERPENDICULAR TO SUPPORTS. WHERE END LAPS OF SHEET DO NOT OCCUR OVER SUPPORTS. THEY SHOULD BE SECURELY TIED
- TOGETHER WITH NOT LESS THAN 0.049 INCH. (NO. 18 BW GAGE) WIRE CORNERITE SHALL BE INSTALLED IN ALL THE INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING. CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IS NOT
- CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLANE. THE APPLICATION OF METAL LATH OR WOVEN WIRE LATH SHALL BE AS SPECIFIED AND CRC SECTION R703.7.1 WHERE NO EXTERNAL CORNER OF REINFORCEMENT IS USED, LATH SHALL BE FURRED OUT AND CARRIED
- AROUND CORNERS AT LEAST ONE SUPPORT ON FRAME CONSTRUCTION . WEEP SCREED, A MINIMUM 0.019 INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION RESISTANT WEEP SCREED WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 3 1/2 INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON ALL EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C926 THE WEEP SCREED SHALL BE PLACED NOT LESS THAN 4 INCHES ABOVE THE EARTH, OR 2 INCHES ABOVE PAVED AREA IS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN THE EXTERIOR OF THE BUILDING. THE WEATHER RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF WEEP SCREED (CRC SEC R703.7.2.1).

### EMENT PLASTERING

- PLASTERING WITH PORTLAND CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE LATH, AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY, CONCRETE OR GYPSUM BACKING AS SPECIFIED (CRC SEC R703.7.2) ON WOOD FRAME OR STEEL STUD CONSTRUCTION WITH AN ON-GRADE CONCRETE FLOOR SLAB SYSTEM. EXTERIOR PLASTER SHALL BE APPLIED TO COVER, BUT NOT EXTEND BELOW, LATH, PAPER, AND SCREED. PAPER THE APPLICATION OF LATH, PAPER AND FLASHING OR DRIP SCREEDS SHALL COMPLY WITH ASTM C926, AND ASTM C1063. (CRC SEC R703.7)
- ONLY APPROVED PLASTICITY AGENTS AND APPROVED AMOUNTS THEREOF MAY BE ADDED TO PORTLAND CEMENT. WHEN PLASTIC CEMENT OR MASONRY CEMENT IS USED, NO ADDITIONAL LIME OR PLASTICISER. SHALL BE ADDED. HYDRATED LIME, OR THE EQUIVALENT AMOUNT OF LINE PUTTY USED AS PLASTICISER IS PERMITTED TO BE ADDED TO CEMENT, PLASTER OR CEMENT IN LIME PLASTER IN AN AMOUNT NOT TO EXCEED THAT SET FORTH IN ASTM C926. (CRC SEC R702.1 (3)) GYPSUM PLASTER SHALL NOT BE USED ON EXTERIOR SURFACES.
- THE PROPORTION OF AGGREGATED TO CEMENTITIOUS MATERIALS FOR BASE COAT OF EXTERIOR PLASTER SHALL BE A SET FORTH IN ASTM C926 AND TABLE R702.1(3) CEMENT PLASTER MATERIALS SHALL CONFORM TO ASTM C91. (TYPE M, S OR N), C150 (TYPE I. II AND III) C595 (TYPE IP, I (PM), IS AND I (SM), C847, C897, C926, C1032, C1047, AND C1328, AND SHALL BE INSTALLED OR
- IN ACCORDANCE WITH TABLE OR R702.1(1) (CRC SEC R702.2.2 / R702.2.1)
- THE SECOND COAT. (CRC SEC R703.7.3)
- COLOR AND FINISH TO BE SELECTED AND APPROVED BY OWNER / BUILDER. A ONE-COAT EXTERIOR PLASTER SYSTEM "OMEGA DIAMOND WALL" AND DIAMOND WALL INSULATING EXTERIOR STUCCO SYSTEM ICC NO. ESR-1194 OR APPROVED OR EQUAL MAY BE USED IN LIEU OF THE 3-COAT EXTERIOR PLASTER SYSTEM. FOAM INSULATION BOARD USED IN ONE-COAT EXTERIOR PLASTER SYSTEM SHALL CONFORM TO THE
- 11 **REQUIREMENTS CRC CHAPTER 7.** THE EXTERIOR OF THE BUILDING SHALL BE SEPARATED FROM THE FOAM PLASTIC INSULATION BY AN WALL SHEATHING. (CRC R703.9.2(5)

### 21 -FIRE SEPARATION

- R702.3.5. (CRC SECTION R302.6)
- PROVIDE ONE LAYER OF 5/8 INCH 'X' GYPSUM WALLBOARD AT GARAGE CEILING, SIDE, AND BENEATH ALL HABITABLE ROOMS AND STRUCTURAL SUPPORTING FRAMING MEMBERS (CRC SECTION R702.3.7) ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER STAIRS SURFACE AND ANY SOFFITS PROTECTED ON ENCLOSED SIDE, 1/2" GYPSUM BOARD (CRC SECTION R302.7)
- 3

### 22 -PLUMBING

- ALL MATERIALS AND EQUIPMENT, INSTALLATION AND CONSTRUCTION METHODS SHALL COMPLY WITH THE 10. EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS OR WITH MOTORIZED DAMPER THAT AUTOMATICALLY SHUT WHERE THE SYSTEM OR SPACES MOST CURRENT ADOPTED EDITION OF THE CALIFORNIA PLUMBING CODE, OR THE CURRENT LOCALLY SERVED ARE NOT IN USE (CMC SECTION 504.1.1) ADOPTED PLUMBING CODE. NO PLUMBING FIXTURE, DEVICE, OR CONSTRUCTION SHALL BE INSTALLED OR MAINTAINED OR SHALL BE HAVE SMOOTH INTERIOR SURFACES. CONNECTED TO ANY DOMESTIC WATER SUPPLY WHEN SUCH INSTALLATION OR CONNECTION MAY PROVIDE
- 11. DUCTS USED FOR DOMESTIC KITCHEN RANGE OR COOKTOP VENTILATION SHALL BE OF METAL AND SHALL 12. REFER TO CMC SECTION 504.3 EXCEPTION FOR THE VENTING OF DOMESTIC KITCHEN DOWNDRAFT A POSSIBILITY OF POLLUTING SUCH WATER SUPPLY OR MAY PROVIDE A CROSS-CONNECTION BETWEEN A GRILLE-RANGES DISTRIBUTING SYSTEM OF WATER FOR DRINKING AND DOMESTIC PURPOSES AND WATER WHICH MAY 13. FLOOR MOUNTED OR BUILT-IN HOUSEHOLD COOKING APPLIANCE SHALL HAVE A VERTICAL CLEARANCE BECOME CONTAMINATED BY SUCH PLUMBING FIXTURES, DEVICE, OR CONSTRUCTION, UNLESS THERE IS ABOUT COOKING TOP OF NOT LESS THAN 30 INCHES TO COMBUSTIBLE MATERIAL OR METAL CABINETS. A PROVIDED A BACKFLOW PREVENTION DEVICE APPROVED FOR THE POTENTIAL HAZARD (CPC SECTION CLEARANCE NOT LESS THAN 24 INCHES IS PERMITTED TO A METAL VENTILATING HOOD (CMC. SECTION 602.3) 920.4.2(1))

### GLAZING IN WARDROBE DOOR SHALL MEET THE IMPACT TEST REQUIREMENTS FOR SAFETY GLAZING AS SET FORTH IN THE CRC TABLES R308.1(1) AND OUR 308.3.1(2) PLASTIC GLAZING SHALL MEET THE WEATHERING

### GYPSUM WALLBOARD SHALL BE INSTALLED IN CONFORMANCE WITH THE CURRENT EDITION OF THE CALIFORNIA BUILDING CODE AND ALL STATE AND LOCAL BUILDING CODES. THE MOST STRINGENT

- B. IN AREAS WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR AN AIR IS SUBJECT TO CONTINUOUS HUMIDITY. (CRC SECTION R702.3.7 & R702.3.7.1)

- APPLIED IN CONFORMANCE WITH ASTM C1063. GYPSUM LATH SHALL CONFORMS TO ASTM C1396. PLASTER SHALL NOT BE LESS THAN THREE COATS WHERE APPLIED OVER METAL LATH AND NOT LESS THAN TWO
- COATS WHERE APPLIED OVER OTHER BASES PERMITTED BY THIS SECTION, EXCEPT THAT VENEER PLASTER SHALL BE APPLIED IN ONE COAT NOT TO ACCEPT 3/16 INCH THICKNESS PROVIDED THE TOTAL THICKNESS IS
- APPLICATIONS INSTALLED IN ACCORDANCE WITH ASTM C926. EACH COAT SHALL BE KEPT MOIST CONDITION FOR AT LEAST 48 HOURS PRIOR TO APPLICATION OF THE NEXT COAT. (CRC SEC R703.7.4) THE FINISH COAT FOR TWO-COAT CEMENT PLASTER SHALL NOT BE APPLIED SOONER THAN SEVEN DAYS AFTER APPLICATION OF THE FIRST COAT. FOR THREE-COAT CEMENT PLASTER, THE SECOND COAT SHALL NOT BE APPLIED SOONER THAN 48 HOURS AFTER APPLICATION OF THE FIRST COAT. THE FINISH COAT FOR THREE-COAT CEMENT PLASTER SHALL NOT BE APPLIED SOONER THAN SEVEN DAYS AFTER APPLICATION OF
- APPROVED THERMAL BARRIER, WATER-RESISTIVE BARRIER SHALL COMPLY WITH R703.2 ASTM E2570 (CRC R703.9.2(4). INSTALLATION OF WATER RESISTIVE BARRIER SHALL BE APPLIED BETWEEN THE EIFS AND THE

### PRIVATE GARAGE SHALL BE SEPARATED FROM THE DWELLING UNIT AND IT 'S ATTIC AREA BY MEANS OF A MINIMUM 1/2 INCH GYPSUM BOARD APPLIED TO THE GARAGE SIDE FOR TABLE R302.6. OPENINGS IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5 ATTACHMENT OF GYPSUM BOARD SHALL COMPLY WITH TABLE

- WHERE PLUMBING FIXTURES ARE INSTALLED FOR PRIVATE USE HOT WATER SHALL BE REQUIRED FOR BATHING, WASHING, LAUNDRY, COOKING PURPOSES, DISHWASHING OR MAINTENANCE (CPC SECTION 601.2) PORTABLE WATER OUTLETS WITH HOSE ATTACHMENT, OTHER THAN WATER HEATER DRAINS AND CLOTHES WASHER CONNECTIONS SHALL BE PROTECTED BY A LISTED NON-REMOVAL HOSE BIB TYPE BACKFLOW, PREVENTER, NON-REMOVABLE, HOSE BIB TYPE VACUUM BREAKER, OR AN ATMOSPHERIC VACUUM BREAKER INSTALLED NOT LESS THAN 6 INCHES ABOVE HIGHEST POINT OF USAGE LOCATED ON DISCHARGE SIDE OF THE LAST VALVE IN CLIMATES WHERE FREEZING TEMPERATURES OCCUR. A LISTED SELF-DRAINING, FROST-PROOF HOSE BIB WITH AN INTEGRAL BACKFLOW PREVENTER OR VACUUM BREAKER SHALL BE USED (CPC SECTION 603.5.7)
- COPPER OR COPPER ALLOY TUBE FOR WATER PIPING SHALL HAVE WEIGHT, NOT LESS THAN TYPE L. EXCEPTION: TYPE M COPPER OR COPPER ALLOY TUBING SHALL BE PERMITTED TO BE USED FOR WATER PIPING WHERE PIPING IS ABOVEGROUND IN OR ON A BUILDING OR UNDERGROUND OUTSIDE OF STRUCTURES (CPC SECTION 604.3)
- APPROVED PLASTIC MATERIALS SHALL BE PERMITTED TO BE USED IN BUILDING SUPPLY PIPING, PROVIDED FAT WHERE METAL BUILDING SUPPLY PIPING IS USED FOR ELECTRICAL GROUNDING PURPOSES. REPLACEMENT PIPING THERE OF SHALL BE OF LIKE MATERIALS. (CPC SECTION 604.3)
- PIPING PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM BREAKAGE PIPING, PASSING THROUGH OR UNDER CINDERS OR OTHER CORROSIVE MATERIALS SHALL BE PROTECTED FROM EXTERNAL CORROSION IN ANY APPROVED MATTER. APPROVED PROVISION SHALL BE MADE FOR EXPANSION OF HOT WATER PIPING. VOIDS AROUND CONCRETE FLOORS ON THE GROUND SHALL BE APPROPRIATELY SEALED (CPC SECTION 312.1)
- ALL PIPING PENETRATIONS OF FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS, FLOOR/CEILING, ASSEMBLIES, ROOF/CEILING, ASSEMBLIES, OR SHAFT REQUIREMENTS SHALL BE PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODE IN CALIFORNIA RESIDENTIAL CODE (CPC SECTION 3127)
- 15. PROVIDE CLEAN OUTS WERE REQUIRED BY THE CALIFORNIA PLUMBING CODE SECTION 707 AND 719 16. ALL GAS PIPING SHALL BE SUPPORTED BY METAL STRAPS OR HOOKS AND INTERVALS NOT EXCEED THOSE SHOWN IN TABLE 1210.2.4.1. (CPC SECTION 313.7)
- SHOWERS AND TUB SHOWERS COMBINATION SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE, BALANCE/THERMOSTATIC MIXING VALVE TYPE THAT PROVIDE SCALD AND THERMAL SHOCK PROTECTION FOR THE RATED FLOW RATE OF THE INSTALLED SHOWER HEAD. THESE VALVES SHALL BE INSTALLED AT THE POINT OF USE AND COMPLY WITH ASSE 1016/ASME A112.1016/CSA B125.16 OR ASME A112.18.1/CSA B125.1 (CPC SECTION 408.3)
- WATER HEATER LOCATED IN RESIDENTIAL GARAGE AND IN ADJACENT SPACES THAT OPEN IN GARAGE AND ARE NOT PART OF THE LIVING. SPACE OF A DWELLING UNIT SHALL BE INSTALLED SO THAT ALL BURNERS AND BURNER IGNITION DEVICES ARE LOCATED NOT LESS THAN 18 INCHES ABOVE THE FLOOR UNLESS LISTED AS FLAMMABLE VAPOR IGNITION RESISTANT (CPC SEC 507.13) ALL WATER HEATERS INSTALLED IN GARAGES, WAREHOUSES, OR OTHER AREAS SUBJECT TO MECHANICAL
- DAMAGE SHALL BE GUARDED AGAINST SUCH DAMAGE BY BEING INSTALLED BEHIND PROTECTIVE BARRIERS, OR BY BEING ELEVATED OR LOCATED OUT OF THE NORMAL PATH OF VEHICLES. (CPC SEC 307 13 1) WHEN A WATER HEATER IS LOCATED IN AN ATTIC IN OR ON AN ATTIC CEILING, ASSEMBLY, FLOOR-CEILING,
- ASSEMBLY OR FLOOR-SUBFLOOR ASSEMBLY OR DAMAGE MAY RESULT FROM A LEAKING WATER HEATER, A WATER TYPE PAN OF CORROSION RESISTANT MATERIALS SHALL BE INSTALLED BENEATH THE WATER HEATER WITH NOT LESS THAN THREE-QUARTERS (3/4) OF AN INCH DIAMETER DRAIN TO AN APPROVED LOCATION. SUCH PAN SHALL BE NOT LESS THAN 1 1/2 INCH IN DEPTH. (CPC SEC 507.5) WATER HEATER SHALL BE PROVIDED WITH AN APPROVED, LISTED, ADEQUATELY SIZED COMBINATION,
- TEMPERATURE AND PRESSURE RELIEF VALVE, INSTALLED PER MANUFACTURER'S INSTRUCTION, AND SHALL BE PROVIDED WITH A DRAIN TO THE OUTSIDE OF THE BUILDING AS REQUIRED ON SECTION 608.5. (CPC SECTION 608.3) NO DOMETIC DISHWASHING MACHINE SHALL BE DIRECTLY CONNECTED TO DRAINAGE SYSTEM OR FOOD
- WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISHWASHER AIR GAP FITTING ON A DISHCHARGE SIDE OF DISHWASHING MACHINE. LISTED AIR GAPS SHALL BE INSTALLED WITH THE FLOOD LEVEL (FL) MARKING AT OR ABOVE THE ELOOD LEVEL OF THE SINK OR DRAIN BOARD, WHICHEVER IS HIGHER LISTED. AIR GAPS SHALL BE INSTALLED WITH THE FLOOD LEVEL MARQUEE AT OR ABOVE THE FLOOD LEVEL OF THE SINK OR DRAIN BOARD WHICHEVER IS HIGHER. (CPC SECTION 807.3)
- THE MINIMUM CAPACITY FOR WATER HEATERS SHALL BE IN ACCORDANCE WITH THE FIRST HOUR RATING LISTED IN TABLE 501.1(2) OF THE 2022 CPC

### TABLE 501.1(2) FIRST HOUR RATING<sup>1</sup>

608.2)

- 1 to 1.5 Number of Bathrooms 2 to 2.5 3 to 3.5 Number of Bedrooms 1 2 3 2 3 4 5 3 4 5 6 62 74 74 74 First Hour Rating,<sup>2</sup> Gallons 38 49 49 49 62 62 74
- 1 The first-hour rating is found on the "Energy Guide" label. 2 Solar water heaters shall be sized to meet the appropriate first-hour rating as shown in the table. LAVATORY FAUCETS SHALL BE DESIGNED AND MANUFACTURES SO THAT THEY WILL NOT EXCEED A
- WATER FLOW RATE OF 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.(CPC SECTION 407.2.2) FAUCETS FOR KITCHEN, WET BARS, LAUNDRY SINK OR OTHER SIMILAR USE FIXTURES SHALL BE DESIGNED AND MANUFACTURED SO THAT THEY SHALL NOT EXCEED MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCET MY TEMPORARY INCREASE THE FLOW ABOVE THE MAXIMUM RATE,
- BUT NOT EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI (CPC SECTION 420.2.2). SHOWERHEADS DESIGNED AND MANUFACTURED SHALL HAVE A MAXIMUM WATER SUPPLY FLOW RATE OF 1.8 GALLONS PER MINUTE AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF CALGREEN (CPC SEC 408.2).
- WHERE LOCAL STATIC WATER PRESSURE IN THE WATER SUPPLY PIPING IS EXCEEDED 80 PSI AND APPROVED TYPE PRESSURE REGULATOR PRECEDED BY AN ADEQUATE STRAINER SHALL BE INSTALLED AND THE STATIC PRESSURE REDUCED TO 80 PSI OR LESS. PRESSURE REGULATOR(S) IS EQUAL TO OR EXCEEDING 1 1/2 INCHES SHALL NOT REQUIRE A STRAINER. SUCH REGULATORS SHALL CONTROL THE PRESSURE TO WATER OUTLET IN BUILDING, UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING JURISDICTION. EACH SEARCH REGULATOR STRAINER SHALL BE ACCESSIBLY LOCATED ABOVE GROUND AND SHALL HAVE THE STRAINER READILY ACCESSIBLE FOR CLEANING WITHOUT REMOVING THE REGULATOR OR STRAINER BODY OR DISCONNECTING THE SUPPLY PIPING. PIPE SIZE DETERMINATION SHALL BE BASED ON 80 PERCENT OF THE REDUCED PRESSURE WHEN USING TABLE 610.4. (CPC SECTION

### 23 -HEATING VENTILATING & AIR CONDITIONING

- 1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE 2022 EDITION OF
- THE CALIFORNIA MECHANICAL CODE ALL EQUIPMENT INSTALLED IN THIS PROJECT SHALL BE IN COMPLIANCE WITH THE STANDARDS LISTED IN THE CALIFORNIA MECHANICAL CODE
- CONTRACTORS OF DESIGN ENTIRE HVAC SYSTEM AND SUBMIT DRAWINGS FOR OWNER / BUILDERS APPROVAL PRIOR TO ORDERING MATERIALS OR EQUIPMENT. WHERE AIR CONDITIONING IS AN OPTIONAL FEATURE, HEATING SYSTEMS MUST BE DESIRED AND DUCT
- WORK SIZED TO ACCOMMODATE FUTURE AIR CONDITIONING NEEDS. ANCHORAGE OF APPLIANCES DESIGNED TO BE FIXED IN THE POSITION SHALL BE SECURELY FASTENED II PLACE ACCORDANCE WITH THE MANUFACTURES INSTALLATION INSTRUCTIONS. SUPPORT FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND HORIZONTAL LOAD WITH THE STRESS LIMITATION SPECIFIED IN THE BUILDING CODE (CMC SECTION 303.4.)
- COMBUSTION AIR SHALL BE PROVIDED FOR FORCED AIR UNITS IN ACCORDANCE WITH CHAPTER 7 OF THE CALIFORNIA MECHANICAL CODE ALL DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 6 OF THE CALIFORNIA
- MECHANICAL CODE.
- CONTRACTOR TO PROVIDE BOOT IN DUCTWORK WHEN OPTIONAL "HONEYWELL" OR "CARRIER" ELECTRONIC AIR CLEANER IS PROVIDED. 9. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING
- UNIT FROM THE GARAGE SHALL BE CONSTRUCTED OF MINIMUM NO.26 GAUGE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GARAGE (CRC SECTION R302.5.2)

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19.	L

14. DOMESTIC CLOTHES DRYER EXHAUST DUCTS, SHALL BE OF RIGID METAL AND SHALL HAVE SMOOTH INTERIOR SURFACES. THE DIAMETER SHALL BE NOT LESS THAN 4 INCHES NOMINAL AND THE THICKNESS SHALL BE NOT LESS THAN 0.016 OF AN INCH (CMC SECTION 504.4.2.) LISTED CLOTHES DRYER TRANSITION DUCTS NOT MORE THAN 6 FEET IN LENGTH SHALL BE PERMITTED TO BE USED TO CONNECT TYPE 1 DRYER TO EXHAUST DUCTS. TRANSITION DUCTS AND FLEXIBLE CLOTHES DRYER, TRANSITION DUCTS SHALL NOT BE CONCEALED WITHIN CONSTRUCTION AND SHALL BE NSTALLED PER MANUFACTURERS INSTRUCTIONS (CMC. SECTION 504.4.2.2).

15. CLOTHES DRYER EXHAUST DUCT SHALL TERMINATE OUTSIDE THE BUILDING IN ACCORDANCE WITH SECTION 502.2.1 NOT LESS THAN 3 FEET FROM THE PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, AND 3 FEET FROM OPENING OF BUILDING ASND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. SCREEN SHALL NOT BE INSTALLED AT THE DUCKS TERMINATION. (CMC SECTION 504.4)

UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER MANUFACTURE'S INSTRUCTION AND APPROVED BY THE AUTHORITY HAVING JURISDICTION, DOMESTIC DRYER MOISTURE EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14 FEET, INCLUDING TWO 90 DEGREE ELBOWS. A LENGTH OF 2 FEET SHALL BE DEDUCTED FOR EACH 90 DEGREE ELBOWS IN EXCESS OF TWO. (CMC SECTION 504.4.2.1)

WHEN A CLOSET IS DESIGNED FOR THE INSTALLATION OF CLOTHES DRYER, AN OPENING OF NOT LESS THAN 100 SQUARE INCHES FOR MAKE UP AIR SHALL BE PROVIDED IN THE DOOR OR BY OTHER APPROVED MEANS (CMC 22 SECTION 504.4.1(1)) 18. DOMESTIC WATER HEATERS UNLESS SPECIFIED OTHERWISE BY THE MANUFACTURES INSTALLATION

INSTRUCTION, SHALL BE VENTED TO THE OUTSIDE AIR BY A TYPE "B" (CMC 802.2) WHEN USING A TYPE "B' VENT TO USE A STRAIGHT PIPE BETWEEN THE OUTSIDE TERMINATION POINT AND THE AND THE SPACE WHERE THE WATER HEATER IS INSTALLED (CEC 150.0 (N)IB)

19. TYPE "B" SHALL COMPLY WITH THE REQUIREMENTS FOR GRAVITY, VENTING IN THE CMC SECTION 802.6.3. 20. TYPE "B" EVENTS SHALL TERMINATE IN ACCORDANCE WITH CMC SECTION 802.6 AND CMC FIGURE 802.6.1.

### 26 -ELECTRICAL

1. ALL MATERIALS AND APPLIANCES, INSTALLATION AND CONSTRUCTION METHODS SHALL COMPLY WITH THE CURRENT CALIFORNIA ELECTRICAL CODE ALL ELECTRICAL SYSTEMS, CIRCUITS FIXTURES, AND EQUIPMENT SHALL BE GROUNDED IN A MANNER

COMPLYING WITH ARTICLE 250 OF THE CALIFORNIA ELECTORAL CODE ALL WIRING SHALL BE INSTALLED THAT, WHEN COMPLETED, THE SYSTEM WILL BE FREE FROM SHORT CIRCUIT AND FROM GROUND FAULT, OR ANY CONNECTIONS TO GROUND OTHER THAN REQUIRED OR PERMITTED ON CEC ARTICLE 250 (CEC ARTICLE 110.7)

ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN NEAT AND WORKMANLIKE MANNER (CEC ARTICLE 110.12) RECEPTACLE OUTLET SHALL BE LOCATED IN BRANCH CIRCUIT IN ACCORDANCE WITH PART III OF ARTICLE 210. (CEC ARTICLE 210.4 (A)) WHERE CONNECTED TO A BRANCH CIRCUIT SUPPLYING TWO OR MORE RECEPTACLES OR OUTLETS.

A RECEPTACLE SHALL NOT SUPPLY A TOTAL CORD-AND-PLUG-CONNECTED LOAD IN EXCESS OF THE MAXIMUM SPECIFIED IN TABLE 210.21(B)2. RECEPTACLE RATINGS SHALL CONFORM TO THE VALUES IN TABLE 210.21(B)3, OR WHERE LARGER THAN 50 AMPERES, THE RECEPTACLE RATING SHALL NOT BE LESS THAN BRANCH-CIRCUIT RATINGS. (CEC ARTICLE 210.21(B) RECEPTACLES (2) AND (3)

ALL 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED BELOW SHALL HAVE GROUND FAULT CIRCUITS-INTERRUPTER PROTECTION FOR PERSONNEL a. BATHROOMS GARAGES

OUTDOORS

CRAWLSPACES WHERE THE CRAWLSPACE IS AT OR BELOW GRADE LEVEL UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS KITCHENS. WHERE THE RECEPTACLES ARE INSTALLED TO SERVE THE COUNTERTOP SERVICES

SINKS. WHERE THE RECEPTACLES ARE INSTALLED WITHIN 6 FEET FROM THE TOP INSIDE EDGE OF THE BOWL OF THE SINK. BATHTUB OR SHOWER STALLS, WHERE THE RECEPTACLES ARE INSTALLED WITHIN 6 FEET OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALLS

LAUNDRY AREAS APPLIANCES RECEPTACLE OUTLETS INSTALLED IN A DWELLING UNIT FOR SPECIFICS OF APPLIANCES, SUCH AS LAUNDRY EQUIPMENT, SHALL BE INSTALLED WITHIN 6 FEET OF THE INTENDED LOCATION OF THE APPLIANCE (CEC ARTICLE 210-50 (C))

IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SUNROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DWELLING UNITS, RECEPTACLE OUTLET SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET FROM A RECEPTACLE OUTLETS. WALL SPACE 2 FEET OR MORE IN WIDTH AND WALL SPACE (INCLUDING SPACE MEASURED AROUND CORNERS) AND UNBROKEN ALONG THE FLOOR LINE BY DOORWAYS, AND SIMILAR OPENINGS, FIREPLACE AND FIXED CABINETS THAT DO NOT HAVE COUNTERTOPS OR SIMILAR WORK SURFACES. THE SPACE OCCUPIED BY FIXED PANELS IN WALLS EXCLUDING SLIDING PANELS. THE SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING BAR-TYPE COUNTERS OR RAILINGS (CEC ARTICLE 210.52(A))

10. IN THE KITCHENS, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS OF DWELLING UNIT, THE TWO OR MORE 20-AMPERE OR SMALL APPLIANCE BRANCH CIRCUITS REQUIRED BY ARTICLE 210.11(C)(I) SHALL SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS COVERED BY 210.52 (A), ALL COUNTERTOP OUTLETS COVERED BY 210.5( C ) AND RECEPTACLE OUTLETS FOR REFRIGERATION EQUIPMENT (CEC ARTICLES 210.52 (B)(I))

11. AT LEAST ONE ADDITIONAL 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S) REQUIRED BY ART 210–52 (F). THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS. (CEC ART 210.11(C)(2))

12. IN KITCHENS, PANTRIES, BREAKFAST ROOM, DINING ROOMS AND SIMILAR AREAS OF DWELLING UNITS, RECEPTACLE OUTLETS FOR COUNTERTOPS AND WORK SURFACES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING

RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTERTOP AND WORK SURFACE THAT IS 12 INCHES OR WIDER. RECEPTACLE OUTLET SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24 INCHES MEASURED HORIZONTALLY FROM A RECEPTACLE OUTLET IN THAT SPACE. EXCEPTION: RECEPTACLE OUTLET SHOULD NOT BE REQUIRED ON THE WALL DIRECTLY BEHIND A RANGE, COUNTER-MOUNTED COOKING UNIT, OR SINK IN THE INSULATION. DESCRIBE IN FIGURE 210.52( C ) (I)

AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH ISLAND COUNTERTOP SPACE WITH LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER. AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH PENINSULAR COUNTERTOP LONG DIMENSION SPACE WITH THE LONG DIMENSION OF 24 INCHES OR GRADER AND A SHORT DIMENSION OF 12 INCHES OR GREATER. A PENINSULA COUNTERTOP IS MEASURED FROM CONNECTED PERPENDICULAR WALL

COUNTERTOP SPACES, SEPARATED BY RAIN STOPS, REFRIGERATORS, OR SING, SHALL BE CONSIDERED A SEPARATE COUNTERTOP SPACE IN APPLYING THE REQUIREMENTS OF ARTICLE, 210.52. RECEPTACLE OUTLETS SHALL BE LOCATED ON OR ABOVE NOT MORE THAN 20 INCHES ABOVE THE COUNTERTOP OR WORK SURFACE. RECEPTACLE OUTLETS, ASSEMBLIES LISTED FOR USE IN COUNTERTOPS OR WORK SURFACES SHALL BE PERMITTED TO BE INSTALLED IN COUNTERTOPS OR WORK SURFACES. RECEPTACLE OUTLETS RENDERED NOT READILY ACCESSIBLE BY APPLIANCES FASTENED IN PLACE, APPLIANCES, GARAGES, SINKS, OR RANGE TOP AS COVERED IN ART 210.52 (C) (I). EXCEPTION, OR APPLIANCES OCCUPYING DEDICATED SPACE SHALL NOT BE CONSIDERED AS REQUIRED OUTLETS, (CEC ARTICLE 210-52 ( C) (I) THROUGH (50 SEE ARTICLE FOR EXCEPTION(S)

AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 3-FEET OF THE OUTSIDE EDGE OF EACH BASIN. RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BASIN COUNTERTOP. LOCATED ON THE COUNTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET. IN NO CASE SHALL THE RECEPTACLE BE LOCATED MORE THAN 12 INCHES BELOW THE TOP OF THE BASIN OR BASIN COUNTERTOP. AT LEAST ONE 120-VOLT, 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE BATHROOM(S) RECEPTACLE OUTLET(S). SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS. (CEC ARTICLES 210.52(D) & 210.11 (C) (3))

14. ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION SHALL BE PROVIDED AS REQUIRED SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS. ALL 120-VOLT, SINGLE PHASE, 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY, SUN-ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY ANY OF THE MEANS DESCRIBED IN CEC ARTICLE 210.12 (A) (1) THROUGH (6). (CEC ARTICLE 210.12 (A)). 15. AT LEAST ONE ADDITIONAL 20-AMPERE BRANCH CIRCUIT SHALL BE INSTALLED TO SUPPLY RECEPTACLE OUTLETS IN ATTACHED GARAGES AND IN DETACHED GARAGES WITH ELECTRICAL POWER. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS. THIS CIRCUIT SHALL BE PERMITTED TO SUPPLY READILY ACCESSIBLE

OUTDOOR RECEPTACLE OUTLETS (CEC ART 210.11 ( C ) (4)) EACH OUTLET INSTALLED FOR THE PURPOSE OF CHARGING ELECTRIC VEHICLES SHALL BE SUPPLIED BY AN INDIVIDUAL BRANCH CIRCUIT. EACH CIRCUIT SHALL HAVE NO OTHER OUTLETS (CEC ARTICLE 625.40). LL CONDUCTORS CLOSER THAN 1 ¼ INCH TO THE EDGE OF FRAMING MEMBERS SHALL BE PROTECTED VITH A STEEL PLATE AT LEAST 1/16 INCH THICKNESS. (CEC ARTICLE 330.17 & 300.4 (A). LL LIGHT FIXTURES INSTALLED IN WET OR DAMP LOCATIONS SHALL MEET THE REQUIREMENTS OF CEC

RTICLE 410.10 (A). GHT FIXTURES WITHIN CLOTHES SHALL BE INSTALLED IN ACCORDANCE WITH CEC ARTICLE 410.16

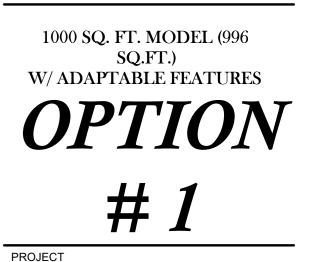
### **MISCELLANEOUS**

COMPLY WITH THE ENTIRE GENERAL REQUIREMENTS AS APPLICABLE FOR THE PROJECT, UNLESS MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED ON THE PLANS.

GARAGES SHALL HAVE NO OPENINGS INTO ROOMS FOR SLEEPING PURPOSES (CRC SEC R302.5.1) WATER CLOSET SHALL NOT BE SET CLOSER THAN 15 INCHES FROM ITS CENTER TO A SIDE WALL OR OBSTRUCTION NOR CLOSER THAN 30 INCHES CENTER TO CENTER TO A SIMILAR FIXTURE. THE CLEAR SPACE IN FRONT OF A WATER CLOSET SHALL BE NOT LESS THAN 24 INCHES (CPC SECTION 402.5) GUARDRAILS SHALL BE IN CONFORMANCE WITH SECTION R312 OF THE CALIFORNIA RESIDENTIAL CODE GUARDS ON THE OPEN SIDE OF THE STAIRS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF SPHERE 4 3% INCHES IN DIAMETER (CRC SECTION R312.1.3 EXCEPTION 2). THE TRIANGULAR OPENINGS AT THE OPEN SIDE OF THE STAIR, FORMED BY THE RISER, TREAD, AND BOTTOM

RAIL OF A GUARD, SHALL NOT ALLOW PASSAGE OF A SPHERE 6 INCHES IN DIAMETER. (CRC SECTION R312.1.3 EXCEPTION 1) HANDRAILS SHALL BE IN CONFORMANCE WITH SECTION R311.7.8 OF THE CALIFORNIA RESIDENTIAL CODE.

BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS IDENTIFICATION. THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. ADDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND, ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL NOT BE SPELLED OUT EACH CHARACTER SHALL BE NOT LESS THAN 4 INCHES (102 MM) IN HEIGHT WITH A STROKE WIDTH OF NOT LESS THAN 0.5 INCH (12.7 MM) OF A CONTRASTING TO THE BACKGROUND (CRC SECTION 319.1). ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER (CRC SECTION R337.5.4)



# ACCESSORY DWELLING UNIT

PWP23-003

### DEPARTMENT OF PUBLIC WORKS AND PLANNING



### CAPITAL PROJECTS DIVISION

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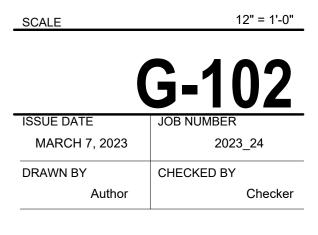
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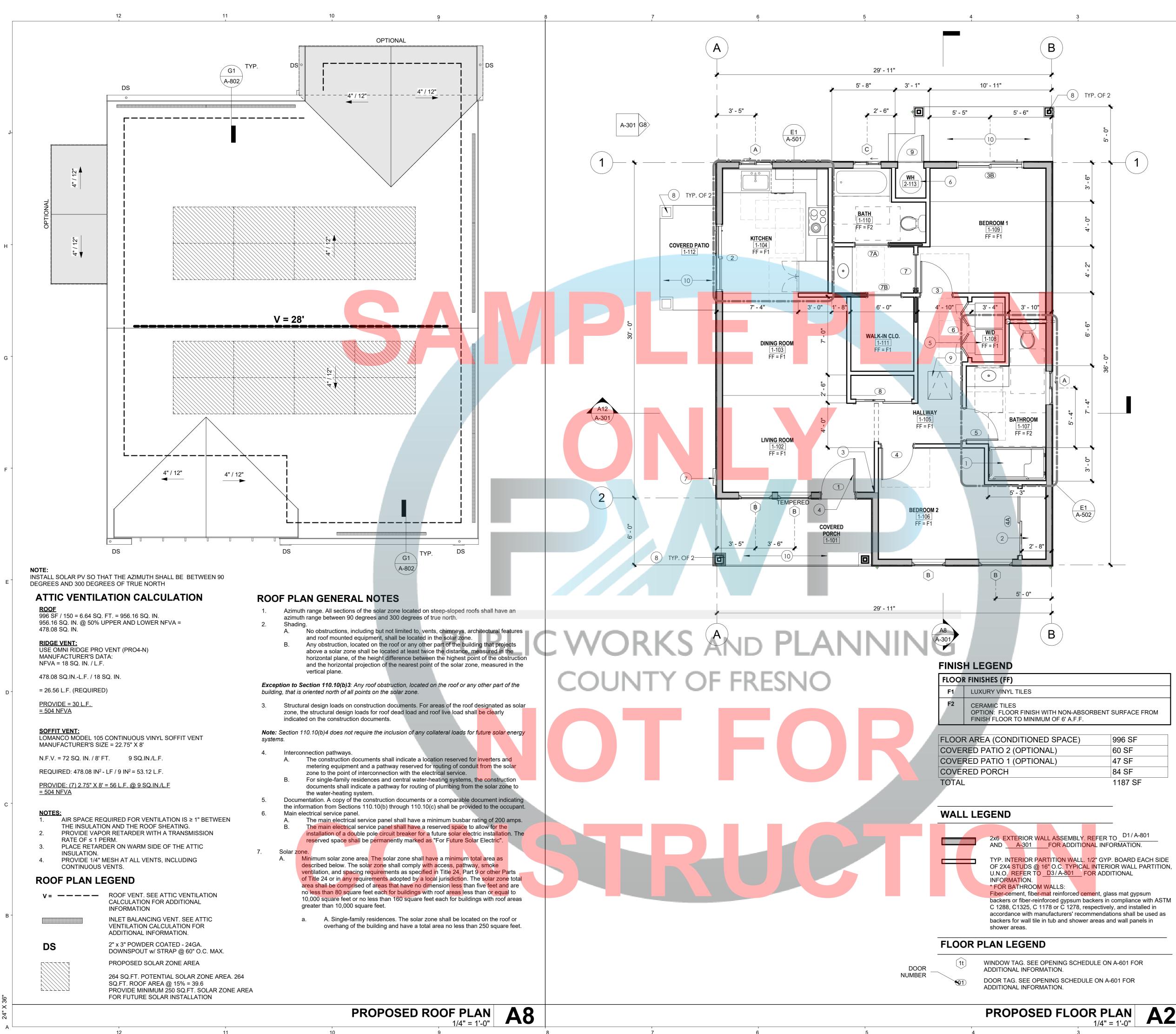
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**GENERAL NOTES** 





-ABSORBENT .F.F.	SURFACE FROM	
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L)	990 01	
	60 SF	
	47 SF	
	84 SF	
	1187 SF	

### **FLOOR PLAN KEYNOTES**

- ADAPTABLE ROLL-IN SHOWER. MAINTAIN A 2% MAXIMUM SLOPE IN ALL DIRECTIONS. TYPICAL ON ALL SHOWER AND BATHROOMS. REFER TO <u>A6/A-502</u> FOR ADDITIONAL INFORMATION. BUILT-IN CLOSET/DRAWERS WITH CLOTHES ROD. PROVIDE 50% OF STORAGE AT 48" HIGH MAX. FROM FINISH FLOOR. ALIGN WITH EDGE OF WALL FOR A SMOOTH AND FLUSHED FINISHED.
- PROVIDE PEEP HOLE OR VISION PANEL AT 1 PEEPHOLE AT 43" MAX. (OPTIONS PEEPHOLE @ MAX. 60" O.C. AFF). PROVIDE STEEL PLATE AT THE DEAD BOLT STRIKER. SOLID SHIM 6" ABOVE &
- BELOW WITH 2/8 BY 2" SCREWS. WASHING MACHINES AND CLOTHES DRYERS. DRYER SHALL HAVE 4" VENT DUCT TO EXTERIOR WITH MAXIMUM RUN OF 14' INCLUDING 2-90° ELBOWS. TWO FEET SHALL BE DEDUCTED FOR EACH 90 DEGREE ELBOW IN EXCESS OF TWO. NOTE: WASHING MACHINES AND CLOTHES DRYERS SHALL BE
- FRONT LOADING. THE BOTTOM OF THE OPENING TO THE LAUNDRY COMPARTMENT SHALL BE LOCATED 15 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR 2022 CBC 1127A.10.4. REFER TO <u>E5/A-804</u> FOR ADDITIONAL
- INFORMATION. 40 GAL HEAT PUMP WATER HEATER. (MINIMUM OF 3.1 UEF PER TITLE 24) INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- NEW SERVICE PANEL. COORDINATE WITH POWER AND GAS COMPANY PROVIDER PRIOR TO COMMENCING WORK. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. POST WITH OPTIONAL 2X POST WRAP. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. MIN. 24" X 36" ATTIC ACCESS PANEL.
- CONCRETE PATIO/LANDING. SLOPED AT 2% MAXIMUM AWAY FROM THE BUILDING. REFER TO A1/A-801 FOR ADDITIONAL INFORMATION.

### **FLOOR PLAN GENERAL NOTES:**

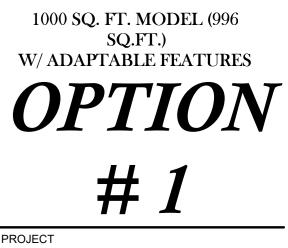
- VERIFY ALL DIMENSIONS, GRADES, AND OTHER CONDITIONS AT JOB SITE BEFORE COMMENCING WORK, DIMENSIONS SHOWN ON THESE PLANS ARE FROM FACE OF FINISH. UNLESS OTHERWISE NOTED.
- WEATHER-STRIP ALL EXTERIOR DOORS AND WINDOWS CERTIFIED ACCORDING TO SECTION 2-555 OF STANDARD FOR DOORS AND WINDOWS.
- ALL OPENINGS AROUND DUCTING. GAS VENTS, PIPES, CHIMNEYS AT THE CEILING SHALL BE FIRE BLOCKED PER CBC AND CRC.
- ALL WINDOWS AND DOORS SHALL MEET THE AIR INFILTRATION STANDARDS OF THE 2022 CALIFORNIA RESIDENTIAL AND ENERGY CODES SHALL BE CERTIFIED AND LABELED.
- INTERIOR WALL COVERING TO BE 1/2" THK. GYP. BRD., UNLESS OTHERWISE NOTED. (FLAME SPREAD CLASS 111) ALL WINDOW GLAZING ARE TO BE DUAL-GLAZED AND PROVIDE SOLAR SCREENS.
- GLASS DOORS AND WINDOWS IMMEDIATELY TO OR LESS THAN 18" FROM FLOOR OR IN DOOR SHALL BE TEMPERED.
- THE FOLLOWING SHALL BE CAULKED OR OTHERWISE SEALED TO LIMIT AIR INFILTRATION: A. EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES,
- BETWEEN WALLS SOLE PLATES AND FLOORS AND BETWEEN WALL PANELS. OPENING FOR PLUMBING, ELECTRICITY, AND GAS LINES IN в
- WALLS, CEILINGS AND FLOORS. OPENINGS IN THE ATTIC FLOOR (SUCH AS WHERE CEILING PANELS MEET INTERIOR AND EXTERIOR WALLS AND
- MASONRY FIREPLACES.) PROVIDE 2x SOLID BLOCKING BEHIND ALL TOILET FIXTURES, CABINETS, WATER HEATER, CEILING LIGHT FIXTURES (FUTURE FAN LOCATION) AND WHEREVER DIRECTED BY THE OWNER, INSPECTOR OR ARCHITECT
- 10. DUCT CONSTRUCTED, INSTALLED AND INSULATED PER CURRENT CODE AND TITLE 24.
- 11. MECHANICAL VENTILATION SYSTEMS MUST SUPPLY 5 CHANGES PER HOUR IN BATHROOMS AND LAUNDRY ROOMS: 2 AIR CHANGES PER HOUR IN OTHER HABITABLE ROOMS.
- PROVIDE 1-1/2" DUCT INSULATION (TYPICAL). 13. VERIFY ALL APPLIANCE SPECIFICATIONS, SIZES AND OWNER'S REQUIREMENT FOR BUILT-IN ASSEMBLY PRIOR TO PRODUCTION OF CASEWORKS, ADJUST DIMENSIONS OF BUILT IN CASEWORK WITH APPLIANCE DIMENSION.
- 14. CONSTRUCT PATIO SLABS WITH 4" THK. CONCRETE X 12" DP. SHOVEL (1 #4 BAR) FOOTING AT PERIMETER. SLABS ARE TO BE BROOM FINISH. PROVIDE 6x6x10 /10 WWM IN MIDDLE OF SLABS. 15. THE ENERGY CERTIFICATION OF COMPLIANCE MUST BE SUBMITTED AFTER INSTALLATION OF THE REQUIRED
- EQUIPMENT AND/OR MATERIAL AND PRIOR TO REQUEST OF FINAL INSPECTION. 16. PROVIDE 115V OUTLET (W.P., G.F.I.) WITHIN 25 FEET OF ROOF
- MOUNTED EQUIPMENT. 17. AFTER INSTALLING INSULATION, THE INSTALLER SHALL POST IN A CONSPICUOUS LOCATION IN THE BUILDING A CERTIFICATE SIGNED BY THE INSTALLER AND THE BUILDER STATING THAT THE INSTALLATION CONFORM WITH THE REQUIREMENTS FOR TITLE 24 PART 2, CHAPTER 2-53 AND THAT THE MATERIALS INSTALLED CONFORM WITH THE REQUIREMENTS OF TITLE 20, CHAPTER 2 SUB-CHAPTER 4, ARTICLE 3. THE CERTIFICATE SHALL STATE THE MANUFACTURER'S NAME AND MATERIAL IDENTIFICATION, THE INSTALLED "R" VALUE, AND (IN APPLICATIONS OF LOOSE FILL INSULATION) THE MINIMUM INSTALLED WEIGHT PER SQUARE FOOT CONSISTENT WITH THE
- MANUFACTURER'S LABEL DENSITY FOR THE DESIRED "R" VALUE TO BE INSTALLED IN CEILING AND IN WALLS. 18. WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD INDEX OF NOT GREATER THAN 200. CRC R302.9.1
- 19. WALL AND CEILING FINISHES SHALL HAVE A SMOKED-DEVELOPED INDEX OF NOT GREATER THAN 450. CRC R302.9.2. 20. PROVIDE FALL PROTECTION REINFORCEMENT AND ADDRESS
- AND A-502 FOR ADDITIONAL INFORMATION. 21. ALL TUB AND SHOWER VALVES ARE TO BE SINGLE CONTROL
- PRESSURE BALANCING OR THERMOSTATIC ANTI-SCALD TYPE. 22. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT THE FOLLOWING QUICK-ACTING SHUT-OFF VALVES [CPC 609.10] : A. AUTOMATIC WASHING MACHINE (HOT AND COLD WATER) ICEMAKER B
- DISHWASHER C.
- FRONT AND REAR SPRINKLER OUTLETS 23. ALL HOSE BIBS SHALL BE EQUIPPED WITH NON-REMOVABLE BACKFLOW PREVENTERS.
- 24. PROVIDE ONE INCH UNDERCUT FOR EXTERIOR DOORS OF LPG WATER HEATER OR FURNACE COMPARTMENTS

### **DOOR LANDING NOTES**

LANDING SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE DOOR AND 36" MIN. IN THE DIRECTION OF TRAVEL. (CBC 1008.1.5) PER CBC 1008.1.6 BELOW:

"1008.1.6 Thresholds. Thresholds at doorways shall not exceed 0.75 inch in height for sliding doors serving dwelling units or 0.5 inch for other doors. Raised thresholds and floor level changes greater than 0.25 inch at doorways shall be beveled with a slope not greater than One unit vertical in two units horizontal (50-percent slope).

Exception: The threshold height shall be limited to 7.75 inches where the occupancy is Group R-2 or R-3; the door is an exterior door that is not a component of the required means of egress; the door, other than an exterior storm or screen door does not swing over the landing or step; and the doorway is not on an accessible route as required by Chapter IIA or 11B and is not part of an adaptable or accessible dwelling unit."



# ACCESSORY **DWELLING UNIT**

PWP23-003

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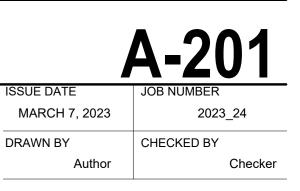
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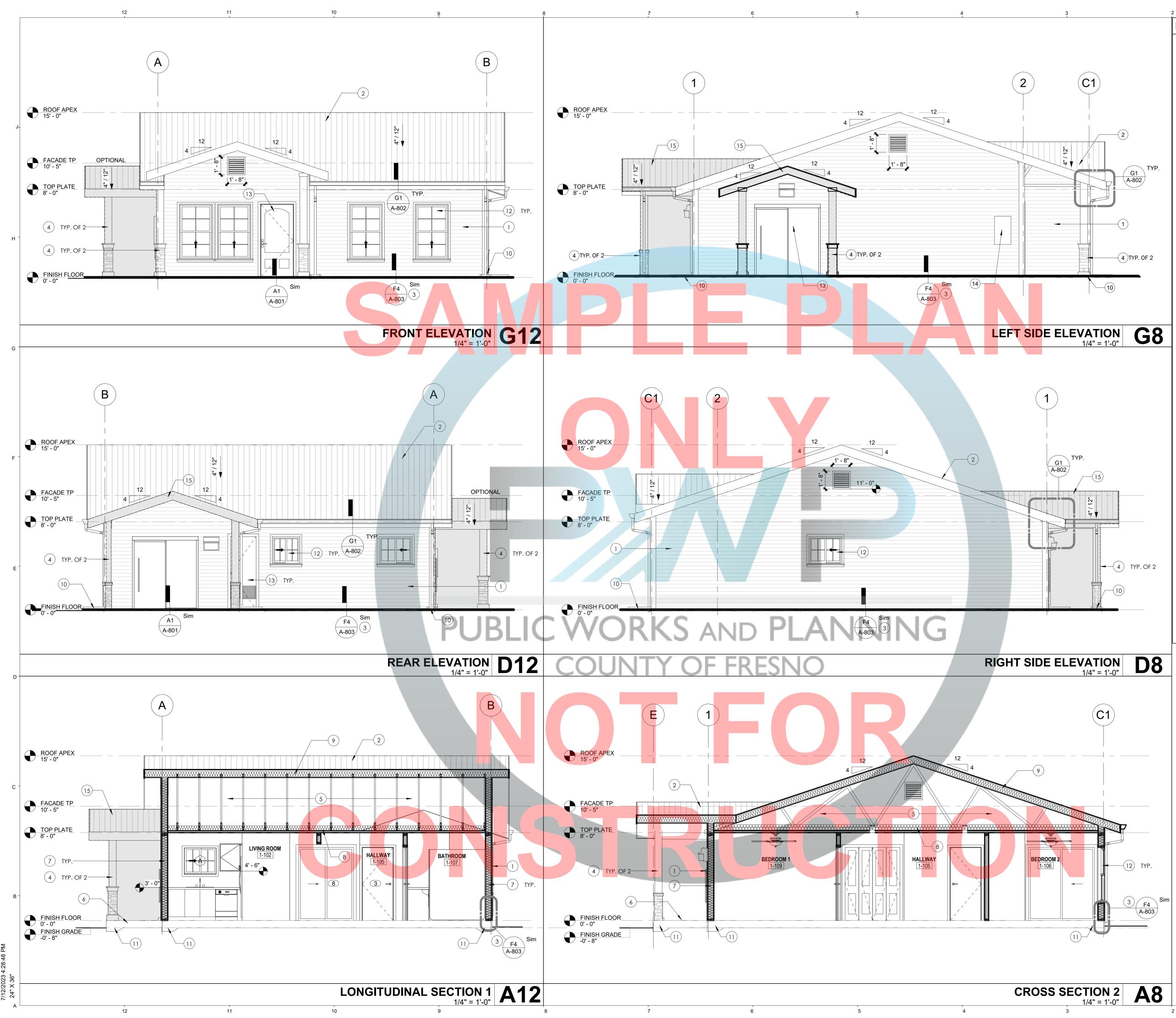
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PROPOSED FLOOR **PLAN & PROPOSED ROOF PLAN** 

1/4" = 1'-0"



SCALE



## ELEVATION KEYNOTES

- "HARDIE PLANK" LAP SIDING OVER 2 LAYER GRADE "D" BUILDING PAPER WITH PERIMETER WEEP SCREED. REFER TO <u>A-803</u> FOR ADDITIONAL INFORMATION. OPTIONAL FINISH: 7/8" STUCCO FINISH OVER 2 LAYERS OF GRADE "D" PAPER INSTALLED OVER PLYWOOD SHEATHING (AS REQUIRED PER STRUCTURAL DRAWING). INSTALL METAL LATH OVER PLYWOOD SHEATHING PER R703.7.1. PROVIDE PERIMETER WEEP SCREED. REFER TO <u>D1/A-801</u> FOR ADDITIONAL INFORMATION.
- 25 YEAR ASPHALT COMPOSITION ROOFING WITH MINIMUM CLASS "C" RATING OVER 30# FELT OVER PLYWOOD SHEATHING. REFER TO <u>A2/A-201</u> FOR ADDITIONAL INFORMATION. OPTION ROOF: GA. 24 STANDING SEAMLESS METAL ROOF.
- PERIMETER WEEP SCREED FOR STUCCO APPLICATION. REFER TO <u>A4/A-803</u>, <u>F4/A-803</u>, <u>A9/A-802</u> FOR ADDITIONAL INFORMATION.
- TREATED WOOD POST WITH OPTIONAL 2X WRAPPED POST OVER CEMENT PLASTER FINISH AND VENEER STONE. REFER TO STRUCTURAL DRAWINGS AND <u>A6/A-802</u> FOR ADDITIONAL INFORMATION.
- ENGINEERED ROOF TRUSS AND PLYWOOD SHEATHING.
- CONCRETE PATIO/LANDING. SLOPED AT 2% MAXIMUM AWAY FRO THE BUILDING.
- **<u>R-21</u>** MINIMUM FIBERGLASS BATTS WALL INSULATION. TYPICAL ON ALL EXTERIOR WALL.
- **<u>R-38</u>** MINIMUM FIBERGLASS BATT INSULATION. TYPICAL ON ATTIC.
- <u>**R-13</u> MINIMUM BATT INSULATION. TYPICAL AT FRAME CAVITY OF ROOF.**</u>
- 10. 11" X 24" CONCRETE BACK SPLASH. PROVIDE ONE PER DOWNSPOUT. POSITION TO DRAIN AWAY FROM THE BUILDING.
- CONCRETE FOOTING / FOUNDATION. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. DUAL GLAZED WINDOW. REFER TO <u>A2 / A-201</u> FOR
- ADDITIONAL INFORMATION. 13. DOOR. SEE SEE <u>A2/A-201</u> FOR ADDITIONAL INFORMATION.
- 14. SERVICE PANEL. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 15. HATCHED AREA DENOTES OPTIONAL PATIO / POST AND COVERED ROOFING ASSEMBLY. PROVIDE MINIMUM LANDING REQUIREMENTS. SEE <u>A2/A-201</u> FOR ADDITIONAL INFORMATION.



1000 SQ. FT. MODEL (996 SQ.FT.)

W/ ADAPTABLE FEATURES

**OPTION** 

PWP23-003

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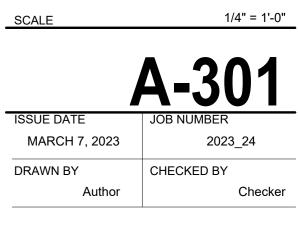


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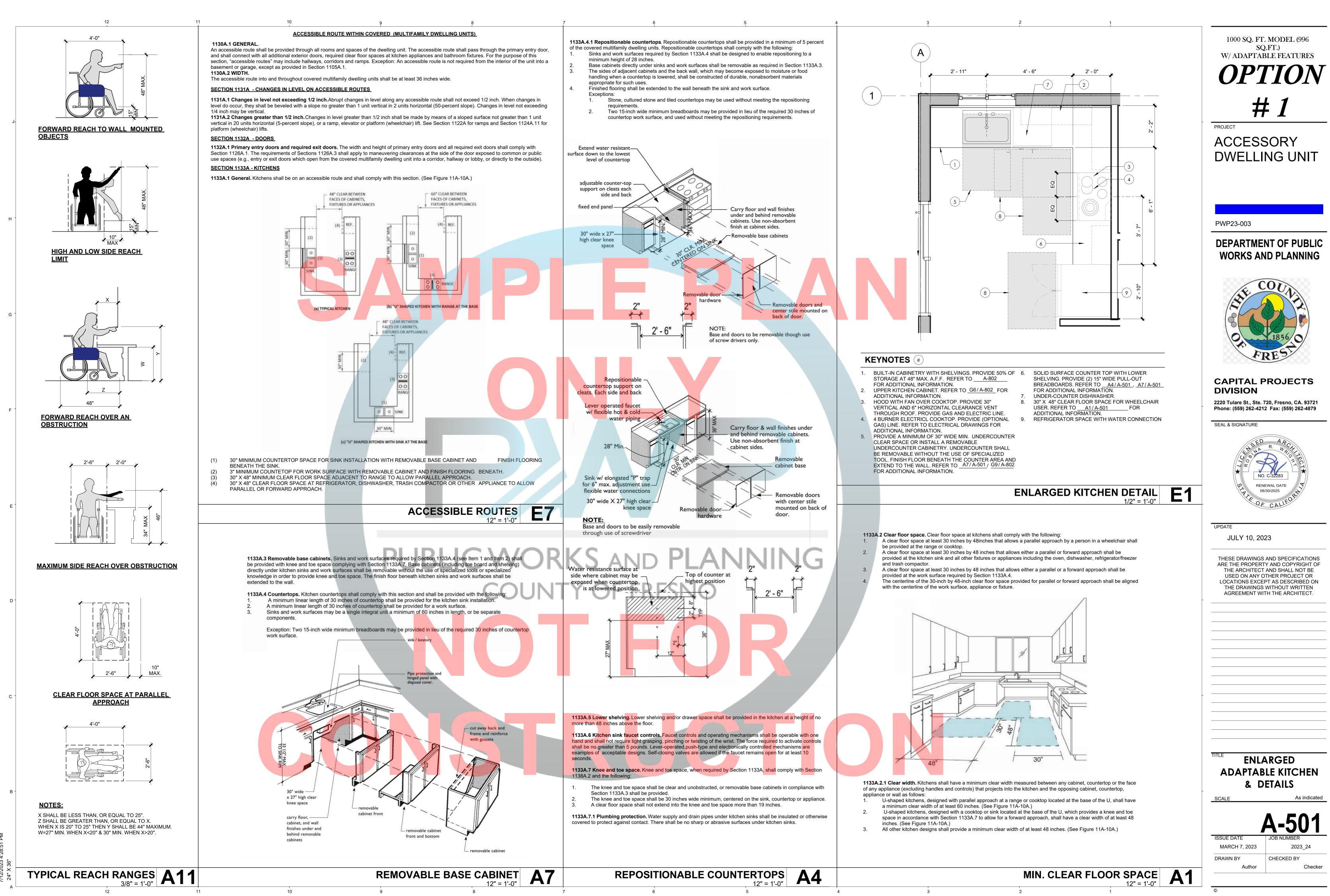
JULY 10, 2023

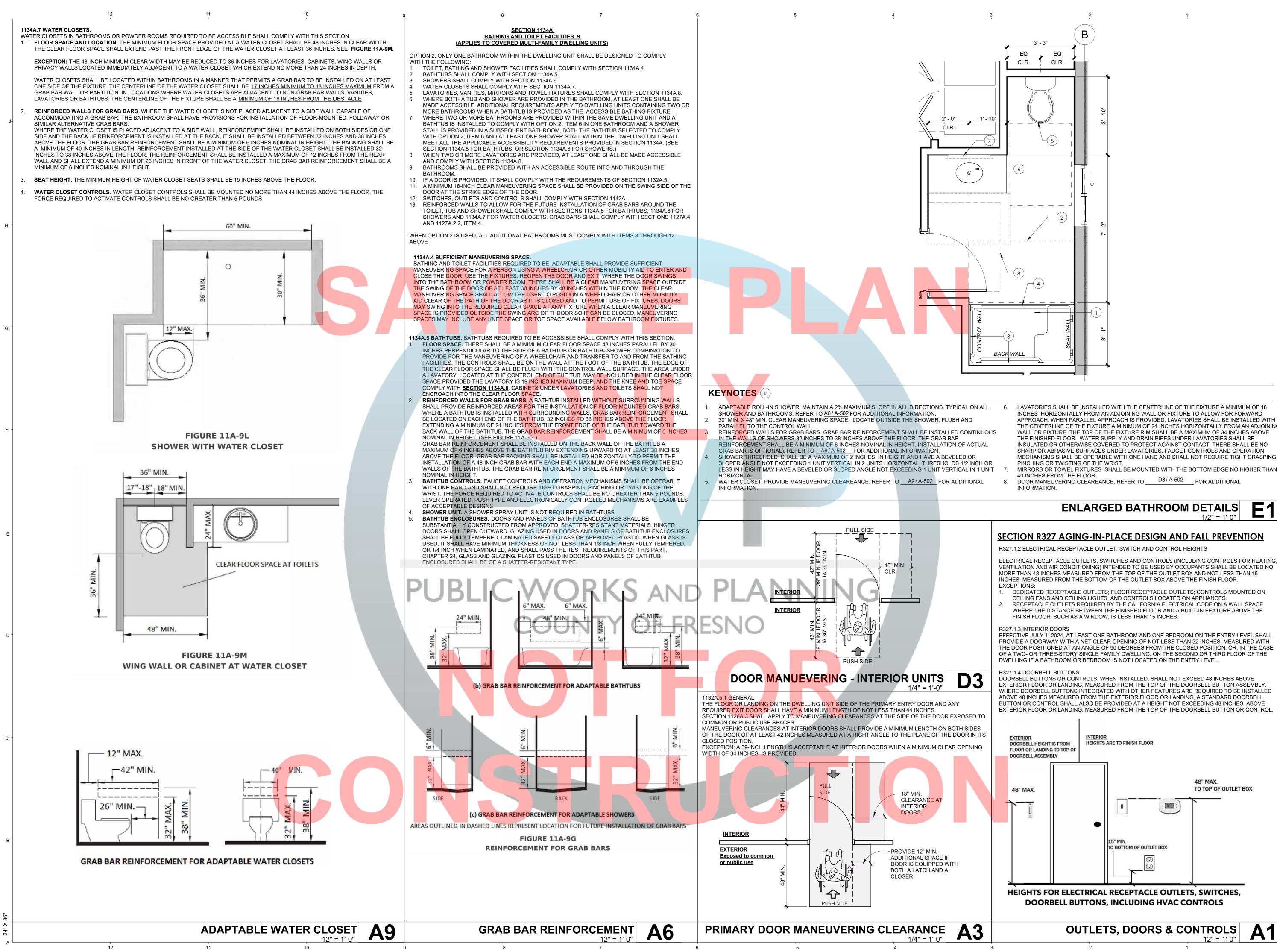
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

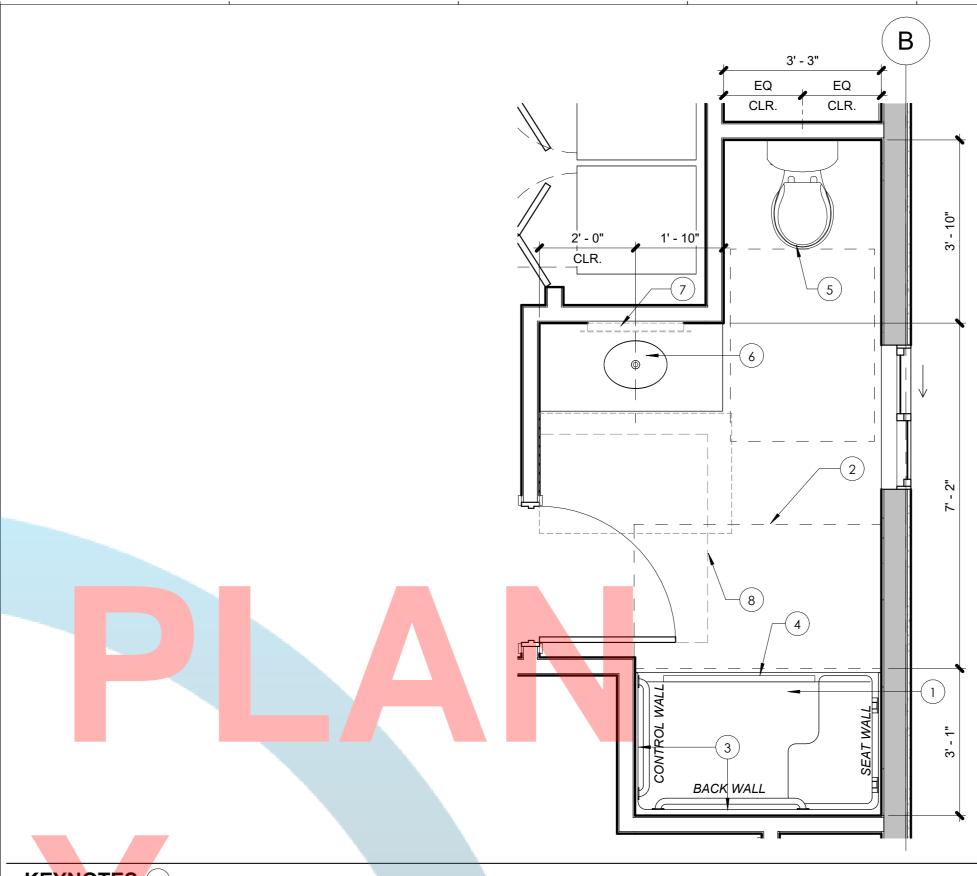
> ELEVATIONS & SECTIONS

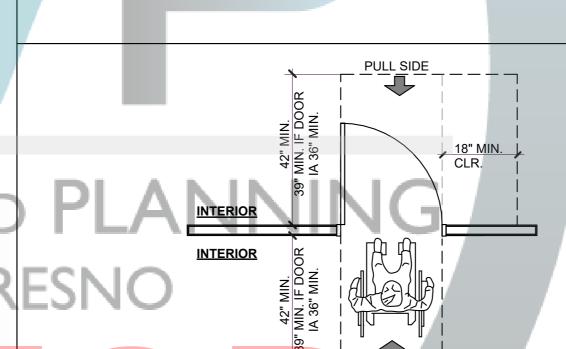


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LAVATORIES SHALL BE INSTALLED WITH THE CENTERLINE OF THE FIXTURE A MINIMUM OF 18 APPROACH. WHEN PARALLEL APPROACH IS PROVIDED, LAVATORIES SHALL BE INSTALLED WITH THE CENTERLINE OF THE FIXTURE A MINIMUM OF 24 INCHES HORIZONTALLY FROM AN ADJOINING WALL OR FIXTURE. THE TOP OF THE FIXTURE RIM SHALL BE A MAXIMUM OF 34 INCHES ABOVE INSULATED OR OTHERWISE COVERED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING,

MIRRORS OR TOWEL FIXTURES SHALL BE MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN

VENTILATION AND AIR CONDITIONING) INTENDED TO BE USED BY OCCUPANTS SHALL BE LOCATED NO

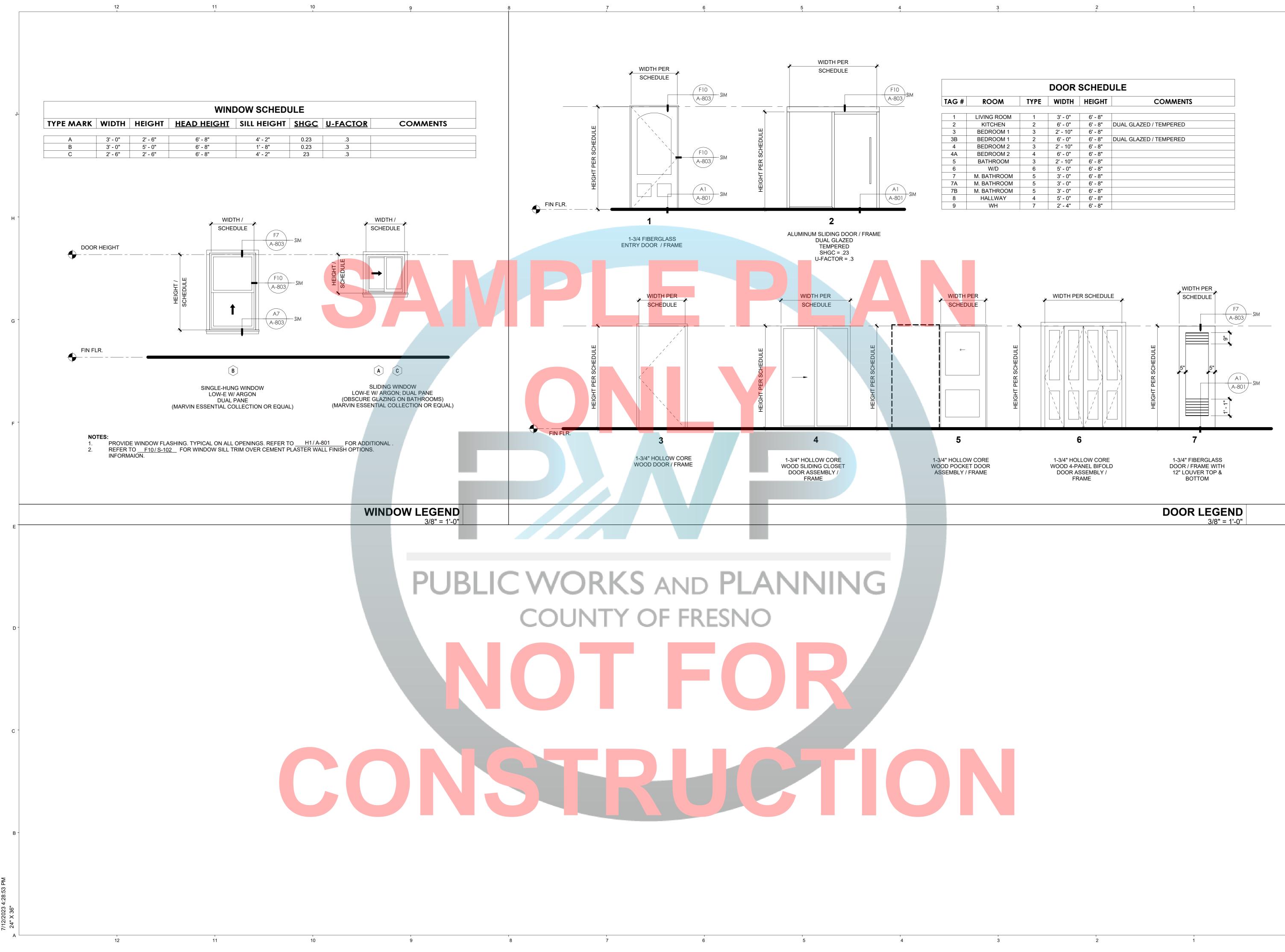
PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32 INCHES, MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSED POSITION; OR, IN THE CASE

WHERE DOORBELL BUTTONS INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON OR CONTROL

1000 SQ. FT. MODEL (996 SQ.FT.) W/ ADAPTABLE FEATURES <b>OPTION</b> <b># 1</b> PROJECT
ACCESSORY DWELLING UNIT
DEPARTMENT OF PUBLIC WORKS AND PLANNING
CAPITAL PROJECTS
DIVISION 2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879 SEAL & SIGNATURE
NO. C-32283 RENEWAL DATE 06/30/2025 RENEWAL DATE 06/30/2025
UPDATE JULY 10, 2023
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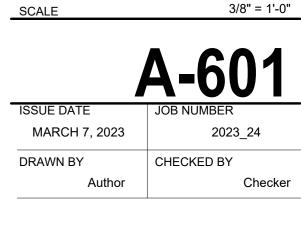
ADAPTABLE **BATHROOM DETAILS** 

### As indicate SCALE ISSUE DATE MARCH 7, 2023 2023 24 DRAWN BY CHECKED BY Author Checker

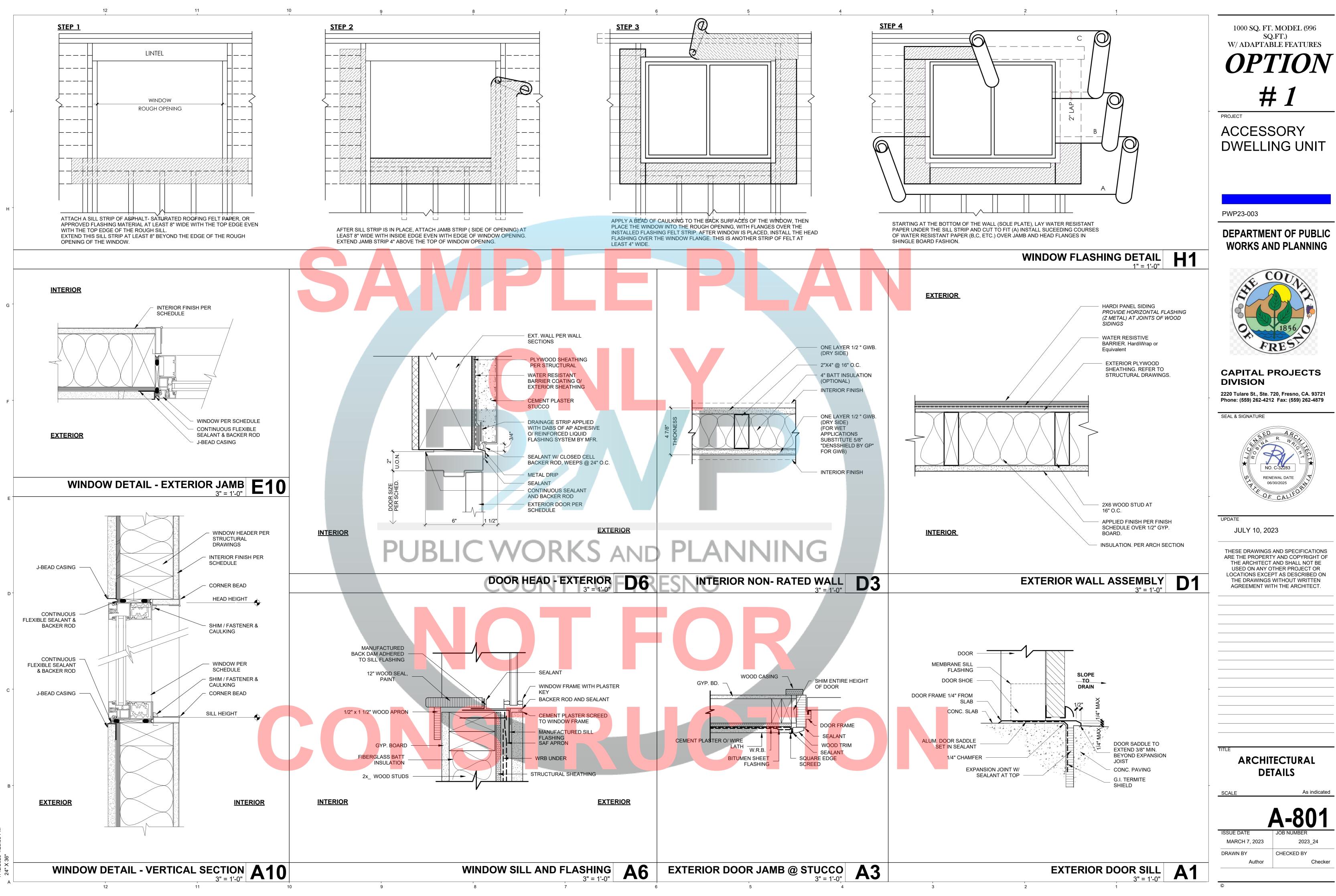


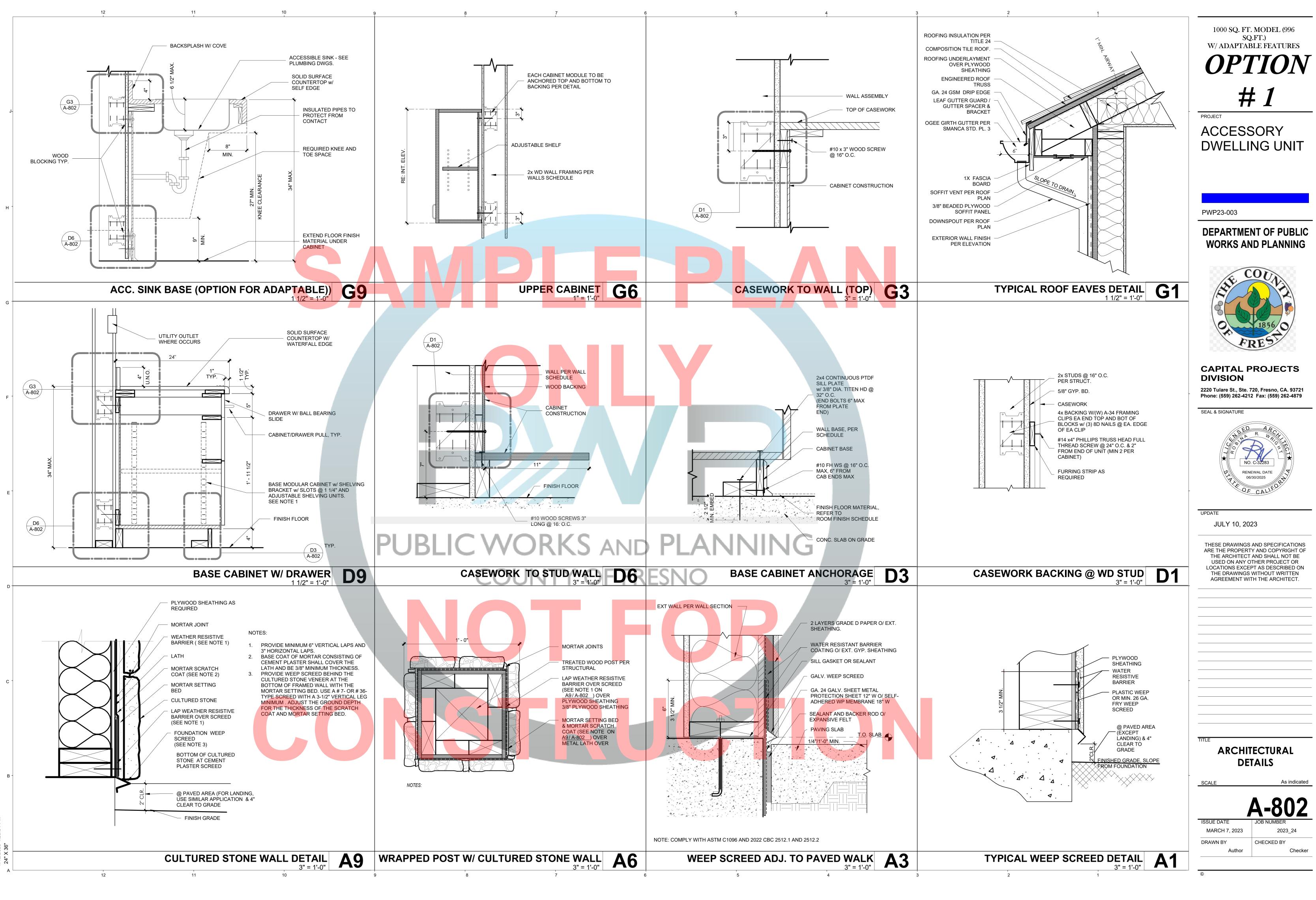
DOOR SCHEDULE					
OM	TYPE	WIDTH	HEIGHT	COMMENTS	
ROOM	1	3' - 0"	6' - 8"		
HEN	2	6' - 0"	6' - 8"	DUAL GLAZED / TEMPERED	
OOM 1	3	2' - 10"	6' - 8"		
OOM 1	2	6' - 0"	6' - 8"	DUAL GLAZED / TEMPERED	
OOM 2	3	2' - 10"	6' - 8"		
OOM 2	4	6' - 0"	6' - 8"		
ROOM	3	2' - 10"	6' - 8"		
//D	6	5' - 0"	6' - 8"		
HROOM	5	3' - 0"	6' - 8"		
HROOM	5	3' - 0"	6' - 8"		
HROOM	5	3' - 0"	6' - 8"		
WAY	4	5' - 0"	6' - 8"		
/H	7	2' - 4"	6' - 8"		

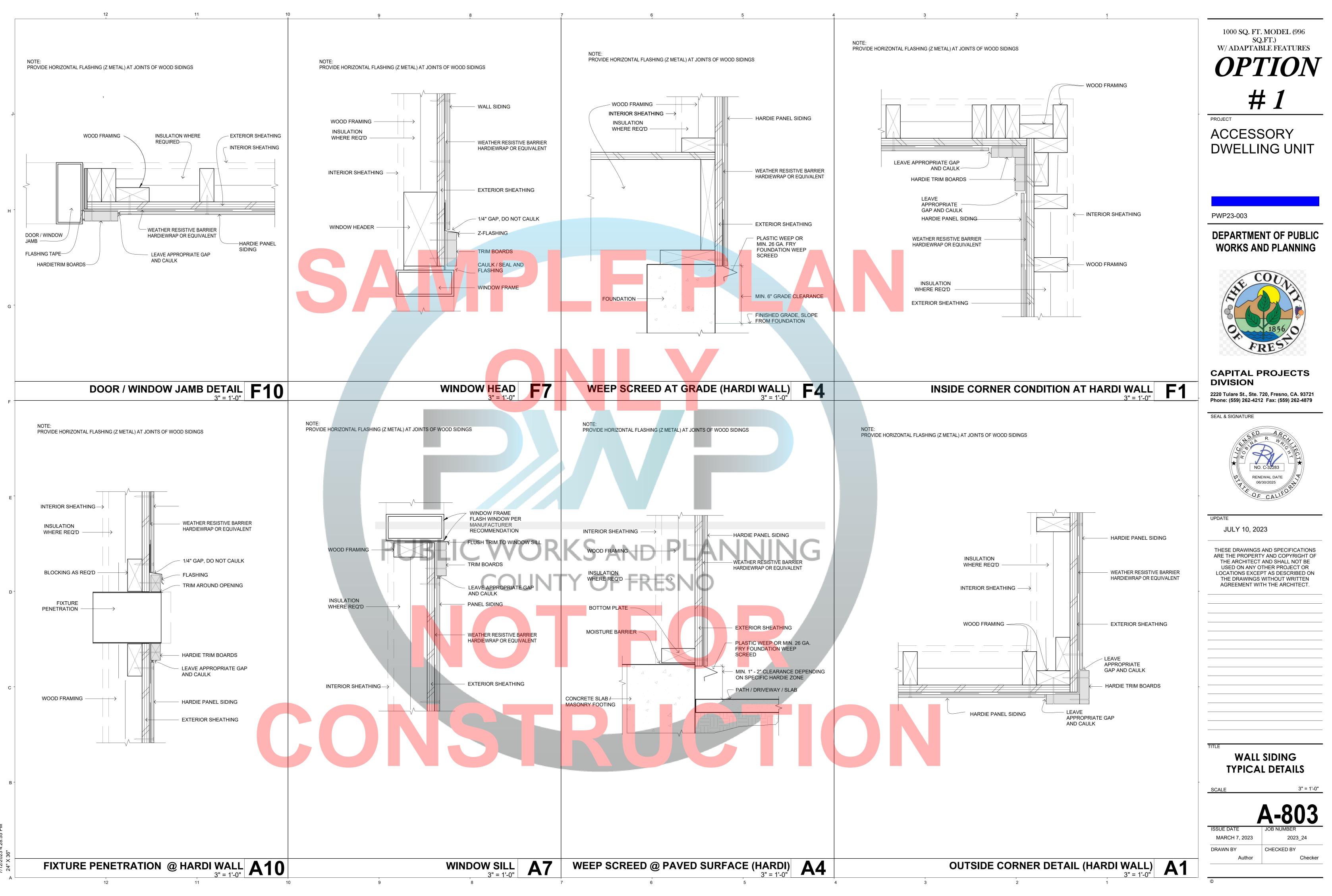
1000 SQ. FT. MODEL (996 SQ.FT.) W/ ADAPTABLE FEATURES <b>OPTION</b>
# 1 PROJECT
ACCESSORY DWELLING UNIT
PWP23-003
DEPARTMENT OF PUBLIC WORKS AND PLANNING
COULT COULT
CAPITAL PROJECTS DIVISION 2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879
SEAL & SIGNATURE
UPDATE JULY 10, 2023
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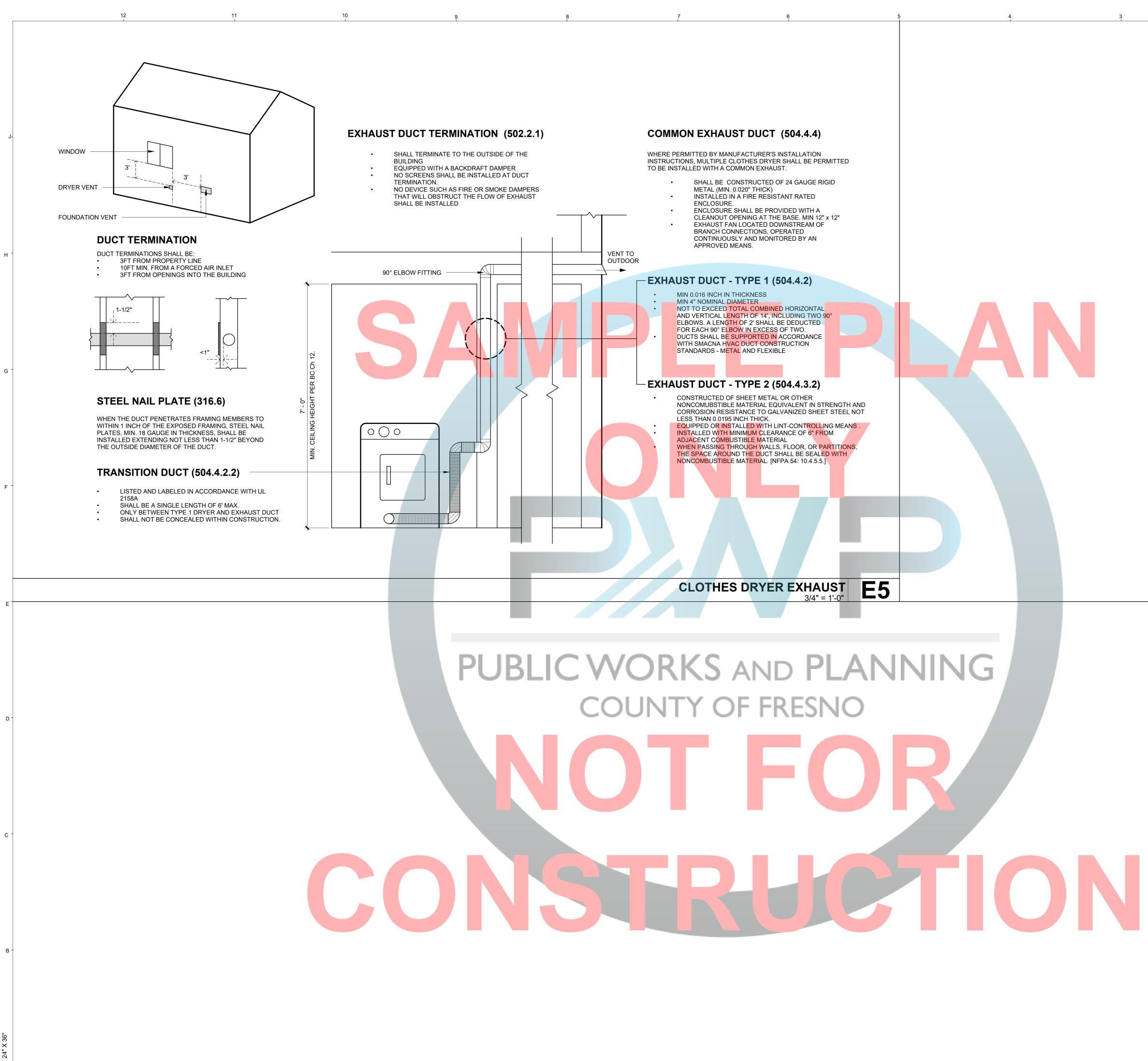


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	1000 SQ. FT. MODEL (996 SQ.FT.) W/ ADAPTABLE FEATURES
	<i>OPTION</i> # 1
_	PROJECT ACCESSORY
	DWELLING UNIT
	PWP23-003
	DEPARTMENT OF PUBLIC WORKS AND PLANNING
	COULT COULT
_	CAPITAL PROJECTS DIVISION 2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879
	SEAL & SIGNATURE
	UPDATE JULY 10, 2023
-	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.
-	
	CLOTHES DRYER EXHAUST DETAILS
-	SCALE 3/4" = 1'-0"
	A-804           ISSUE DATE         JOB NUMBER           MARCH 7, 2023         2023_24
	DRAWN BY CHECKED BY Author Checker
	Ô

		2022 CALIF			
		<u>C(</u>	DDE	<u>RESI</u>	
Y N/A RESPON PARTY	Chapter 3 – Additions and Alterations	N/A RESPON. PARTY	4.106.4.2 New multifar		
	GREEN BUILDING		When parking is provide requirements of Section whole number. A parkin	s 4.106.4.2.1 and 4.1 g space served by el	
J-	<ul> <li>SECTION 301 GENERAL</li> <li>301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but</li> </ul>		space shall count as at applicable minimum par 22511.2 for further deta 4.106.4.2.1Multifamily	king space requirem ils.	
	<ul> <li>are not required unless adopted by a city, county, or city and county as specified in Section 101.7.</li> <li>CC</li> <li><b>301.1.1 Additions and alterations. [HCD]</b> The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or</li> </ul>		less than 20 sleeping The number of dwelling to this section.	units or guest room units, sleeping units	
	alteration. The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.		<b>1.EV Capable.</b> Ten (10) parking facilities, shall b Electrical load calculation including any on-site dis required EV spaces at a	e electric vehicle cha ons shall demonstrate stribution transformer	
	E-015,I8; <b>Note:</b> Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.		The service panel or su for future EV charging p	bpanel circuit directo	
н -	<b>Note:</b> On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a		Exceptions: 1.When EV chargers (L capable spaces.	evel 2 EVSE) are ins	
	noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates. <b>301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD]</b> The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual		2.When EV chargers (L spaces, the number of E chargers installed.		
	sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.		Notes: a.Construction document EV charging.	nts are intended to de	
	<b>302.1 MIXED OCCUPANCY BUILDINGS.</b> In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.		b.There is no requireme chargers are installed fo		
G -	<ul> <li>Exceptions:</li> <li>1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable.</li> <li>2. [HCD] For purposes of <i>CAL</i>Green, live/work units, complying with Section 419 of the <i>California Building Code</i>,</li> </ul>		<b>2.EV Ready</b> . Twenty-fiv Level 2 EV charging rec dwelling unit when more	eptacles. For multifa	
	shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable.		Exception: Areas of par 4.106.4.2.2 Multifamily more sleeping units of	development proje	
	DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS:		The number of dwelling to this section.	units, sleeping units	
	HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural SafetyOSHPDOffice of Statewide Health Planning and Development		parking facilities, shall b Electrical load calculation including any on-site dis required EV spaces at a	e electric vehicle cha ons shall demonstrate tribution transformer	
F	LRLow RiseHRHigh RiseAAAdditions and AlterationsNNew		The service panel or su for future EV charging p	bpanel circuit director	
	CHAPTER 4 RESIDENTIAL MANDATORY MEASURES		Exception: When EV ch spaces required by Sec number equal to the num	tion 4.106.4.2.2, Item	
	SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)		Notes: a.Construction documer b.There is no requireme	nt for EV spaces to b	
	<b>FRENCH DRAIN.</b> A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.		chargers are installed for 2.EV Ready. Twenty-fiv Level 2 EV charging rec	e (25) percent of the	
E	<b>WATTLES.</b> Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.		dwelling unit when more Exception: Areas of par	e than one parking sp	
	<ul> <li>4.106 SITE DEVELOPMENT</li> <li>4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.</li> </ul>		<b>3.EV Chargers.</b> Five (5 Where common use para and shall be available for	king is provided, at le	
	<b>4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION.</b> Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.		When low power Level a automatic load manage each space served by th sufficient capacity to de ALMS. The branch circu of not less than 30 amp	ment system (ALMS) ne ALMS. The electri liver at least 3.3 kW s lit shall have a minim eres. ALMS shall not	
	<ol> <li>Retention basins of sufficient size shall be utilized to retain storm water on the site.</li> <li>Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.</li> <li>Compliance with a lawfully enacted storm water management ordinance.</li> </ol>		required EV capable sp 4.106.4.2.2.1 Electric v Electric vehicle charging	ehicle charging sta	
D -	Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)		Exception: Electric vehic shall not be required to requirements.		
	<b>4.106.3 GRADING AND PAVING.</b> Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:		4.106.4.2.2.1.1 Locatio EVCS shall comply with 1.The charging space s	at le <mark>ast one of</mark> the fo	
	<ol> <li>Swales</li> <li>Water collection and disposal systems</li> <li>French drains</li> </ol>		California Building Code 2.The charging space s 2, to the building.		
	<ul> <li>4. Water retention gardens</li> <li>5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.</li> <li>Exception: Additions and alterations not altering the drainage path.</li> </ul>		Exception: Electric vehi Code, Chapter 11B, are		
c	<b>4.106.4 Electric vehicle (EV) charging for new construction.</b> New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625.		4.106.4.2.2.1.2 Electric The charging spaces sh 1.The minimum length o	all be designed to co	
	Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:		2.The minimum width of 3.One in every 25 charge		
	<ul> <li>1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power.</li> <li>1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project.</li> <li>2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking</li> </ul>		aisle. A 5-foot (1524 m 12 feet (3658 mm). a.Surface slope for this slope) in any direction.	n) wide minimum aisl	
	facilities. 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each		4.106.4.2.2.1.3 Access In addition to the require		
В -	dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective		comply with the accessi spaces and EVCS in m 1109A. <b>4.106.4.2.3 EV space r</b>	bility provisions for E ultifamily developmer equirements.	
	device. Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with		1.Single EV space required circuit. The raceway share originate at the main seproximity to the location	all not be less than tra rvice or subpanel and or the proposed loca	
-	the California Electrical Code. 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent		raceway termination poi have a 40-ampere minir installed, or space(s) re	num dedicated brand served to permit insta	
24" X 36"	protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".		Exception: A raceway is in close proximity to the accordance with the Ca	location or the propo	

# **ORNIA GREEN BUILDING STANDARDS**

# IDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

els and motels and new residential parking facilities. for new multifamily dwellings, hotels and motels shall meet the	Y N/A	A RESPON. PARTY	2.Multiple EV spaces required. Construction documents shall indicate the raceway termination point in location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall a provide information on amperators of installed or future expectacles or EV/SE, received (a) with	also
.106.4.2.2. Calculations for spaces shall be rounded up to the nearest electric vehicle supply equipment or designed as a future EV charging		]	provide information on amperage of installed or future receptacles or EVSE, raceway method(s), wiri schematics and electrical load calculations. Plan design shall be based upon a 40-ampere minimum circuit. Required raceways and related components that are planned to be installed underground, en	branch
automobile parking space only for the purpose of complying with any nents established by a local jurisdiction. See Vehicle Code Section			inaccessible or in concealed areas and spaces shall be installed at the time of original construction. Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circ	
ects with less than 20 dwelling units; and hotels and motels with			installed in close proximity to the location or the proposed location of the EV space at the time of orig construction in accordance with the California Electrical Code.	
ns. s or guest rooms shall be based on all buildings on a project site subject	st		<b>4.106.4.2.4 Identification.</b> The service panel or subpanel circuit directory shall identify the overcurrent protective device space(	
			for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code 4.106.4.2.5 Electric Vehicle Ready Space Signage. Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance wit	
I number of parking spaces on a building site, provided for all types of harging spaces (EV spaces) capable of supporting future Level 2 EVSE			Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or in successor(s).	
te that the electrical panel service capacity and electrical system, r(s), have sufficient capacity to simultaneously charge all EVs at all			4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving ex	tisting
peres. bry shall identify the overcurrent protective device space(s) reserved			multifamily buildings. WheC n new parking facilities are added, or electrical systems or lighting of existing parking facilities	
PABLE" in accordance with the California Electrical Code.		1	or altered and the work requires a building permit, ten (10) percent of the total number of parking spa or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2	
			Notes: 1.Construction documents are intended to demonstrate the project's capability and capacity for facilit	ating future
stalled in a number equal to or greater than the required number of EV			EV charging. 2.There is no requirement for EV spaces to be constructed or available until EV chargers are installed	d for use.
stalled in a number less than the required number of EV capable equired may be reduced by a number equal to the number of EV			DIVISION 4.2 ENERGY EFFICIENCY	
			4.201 GENERAL	
emonstrate the project's capability and capacity for facilitating future			<b>4.201.1 SCOPE.</b> For the purposes of mandatory energy efficiency standards in this code, the Califor Energy Commission will continue to adopt mandatory standards.	mia
			DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION	L
be constructed or available until receptacles for EV charging or EV			4.303INDOOR WATER USE	•
e total number of parking spaces shall be equipped with low power amily parking facilities, no more than one receptacle is required per			4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1	
pace is provided for use by a single dwelling unit.			4.303.1.3, and 4.303.4.4.	
by parking lifts.			<b>Note:</b> All noncompliant plumbing fixtures in any residential real property shall be replaced with water conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certification completion partificate of accuracy or final parmit operated by the local building department.	te of final
or guest rooms shall be based on all buildings on a project site subject			completion, certificate of occupancy, or final permit approval by the local building department. S Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential affected and other important enactment dates.	
			4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallo	
number of parking spaces on a building site, provided for all types of arging spaces (EV spaces) capable of supporting future Level 2 EVSE			flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSe Specification for Tank-type Toilets.	nse
e that the electrical panel service capacity and electrical system, (s), have sufficient capacity to simultaneously charge all EVs at all peres.			<b>Note</b> : The effective flush volume of dual flush toilets is defined as the composite, average flush volu reduced flushes and one full flush.	me of two
ry shall identify the overcurrent protective device space(s) reserved			<b>4.303.1.2 Urinals.</b> The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons	s per
ABLE" in accordance with the California Electrical Code. E) are installed in a number greater than five (5) percent of parking			flush.The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. 4.303.1.3 Showerheads.	
1 3, the number of EV capable spaces required may be reduced by a installed over the five (5) percent required.			<b>4.303.1.3.1 Single Showerhead.</b> Showerheads shall have a maximum flow rate of not more than 1	.8 gallons
			per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA Wat Specification for Showerheads.	
ns of future EV spaces. be constructed or available until receptacles for EV charging or EV			<b>4.303.1.3.2 Multiple showerheads serving one shower</b> . When a shower is served by more than or	
total number of parking spaces shall be equipped with low power			showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only one shower outlet to be in operation at a time.	a single allow
mily parking facilities, no more than one receptacle is required per ace is provided for use by a single dwelling unit.			Note: A hand-held shower shall be considered a showerhead.	
by parking lifts.			4.303.1.4 Faucets.	
number of parking spaces shall be equipped with Level 2 EVSE. east one EV charger shall be located in the common use parking area	 a		<b>4.303.1.4.1 Residential Lavatory Faucets.</b> The maximum flow rate of residential lavatory faucets s exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall a	
s or guests.			than 0.8 gallons per minute at 20 psi.	
tacles or Level 2 EVSE are installed beyond the minimum required, an ) may be used to reduce the maximum required electrical capacity to ical system and any on-site distribution transformers shall have			<b>4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas.</b> The maximum flow rate of lava faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential shall not exceed 0.5 gallons per minute at 60 psi.	
simultaneously to each EV charging station (EVCS) served by the num capacity of 40 amperes, and installed EVSE shall have a capacity	A	N	4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not del	iver more
t be used to reduce the minimum required electrical capacity to the			than 0.2 gallons per cycle.	
tions (EVCS). y Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.	1E	F	<b>4.303.1.4.4 Kitchen Faucets.</b> The maximum flow rate of kitchen faucets shall not exceed 1.8 gallor minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but no exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per r	ot to
serving public accommodations, public housing, motels and hotels			60 psi.	
ion. See California Building Code, Chapter 11B, for applicable			Note: Where complying faucets are unavailable, aerators or other means may be used to achieve re	eduction.
bllowing options:			<b>4.303.1.4.5 Pre-rinse spray valves.</b> When installed, shall meet the requirements in the <i>California Code of Regulations</i> , Title 20 (Appliance Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section	
e <mark>nt to a</mark> n accessible parking space meeting the r <mark>equire</mark> ments of the			(7) and shall be equipped with an integral automatic shutoff.	
ow use of the EV charger from the accessible parking space. accessible route, as defined in the California Building Code, Chapter				<i>rnia Code</i> 5.3 (h)(4)
			(A). Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after Januar	y 1. 2006
designed and constructed in compliance with the California Building ply with Section 4.106.4.2.2.1.1 and Section 4.106.4.2.2.1.2, Item 3.			shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-force(gf)]	
tations (EVCS) dimensions. omply with the following:			4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/com buildings.	
Ill be 18 feet (5486 mm).			Submeters shall be installed to measure water usage of individual rental dwelling units in accor the California Plumbing Code.	uance with
I be 9 feet (2743 mm).			<b>4.303.3 Standards for plumbing fixtures and fittings.</b> Plumbing fixtures and fittings shall be install accordance with the <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in	
e <mark>ss than one,</mark> shall also have an 8-foot (2438 mm) wide minimum e shall be permitted provided the minimum width of the EV space is			1701.1 of the California Plumbing Code.	
le shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent	t		TABLE - MAXIMUM FIXTURE WATER USE	
			FIXTURE TYPE FLOW RATE	
106.4.2.2.1.1 and 4 106.4.2.2.1.2 all EV/SE when installed shall			SHOWER HEADS (RESIDENTIAL)       1.8 GMP @ 80 PSI         HAMATORY FALICETS (RESIDENTIAL)       MAX. 1.2 GPM @ 60 PSI_MIN. 0.8 GF	PM @
V chargers in the California Building Code, Chapter 11B. EV ready		1	LAVATORY FAUCETS (RESIDENTIAL)	w
V chargers in the California Building Code, Chapter 11B. EV ready				
V chargers in the California Building Code, Chapter 11B. EV ready its shall comply with California Building Code, Chapter 11A, Section aceway capable of accommodating a 208/240-volt dedicated branch			LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS 0.5 GPM @ 60 PSI	
V chargers in the California Building Code, Chapter 11B. EV ready its shall comply with California Building Code, Chapter 11A, Section aceway capable of accommodating a 208/240-volt dedicated branch ade size 1 (nominal 1-inch inside diameter). The raceway shall a shall terminate into a listed cabinet, box or enclosure in close			USE AREAS     0.5 GPM @ 60 PSI       KITCHEN FAUCETS     1.8 GPM @ 60 PSI	
106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall V chargers in the California Building Code, Chapter 11B. EV ready into shall comply with California Building Code, Chapter 11A, Section aceway capable of accommodating a 208/240-volt dedicated branch ade size 1 (nominal 1-inch inside diameter). The raceway shall d shall terminate into a listed cabinet, box or enclosure in close ation of the EV space. Construction documents shall identify the rger location, as applicable. The service panel and/ or subpanel shall ch circuit, including branch circuit overcurrent protective device allation of a branch circuit overcurrent protective device.			USE AREAS	

	SCALE 12" = 1'-0"
	MANDATORY MEASURES 1
xception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82	
uilding site, provide readily accessible area(s) that serves all buildings on the site and are identified for the epositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, orrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling	
1. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around esidential structures.	
<ul> <li>Information on required routine maintenance measures, including, but not limited to, caulking, painting, rading around the building, etc.</li> <li>Information about state solar energy and incentive programs available.</li> </ul>	
nethods an occupant may use to maintain the relative humidity level in that range. Information about water-conserving landscape and irrigation design and controllers which conserve water. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away	
<ul> <li>Water reuse systems.</li> <li>Information from local utility, water and waste recovery providers on methods to further reduce resource onsumption, including recycle programs and locations.</li> <li>Public transportation and/or carpool options available in the area.</li> </ul>	THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.
<ul> <li>quipment.</li> <li>Roof and yard drainage, including gutters and downspouts.</li> <li>Space conditioning systems, including condensers and air filters.</li> <li>Landscape irrigation systems.</li> </ul>	ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS WITHOUT WRITTEN
<ul> <li>be structure.</li> <li>Coperation and maintenance instructions for the following:</li> <li>Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major</li> </ul>	THESE DRAWINGS AND SPECIFICATIONS
eb-based reference or other media acceptable to the enforcing agency which includes all of the following shall e placed in the building: . Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of	UPDATE JULY 10, 2023
esources Recycling and Recovery (CalRecycle). 410 BUILDING MAINTENANCE AND OPERATION 410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc,	PECALLEO BY
. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at ww.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.	★         NO. C-32283         ★           RENEWAL DATE         06/30/2025         ▼
ompliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4	R. W. R. CHITEOI
onstruction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the	SEAL & SIGNATURE
onstruction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area	2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879
ote: The owner or contractor may make the determination if the construction and demolition waste materials	CAPITAL PROJECTS DIVISION
<b>.408.3 WASTE MANAGEMENT COMPANY.</b> Utilize a waste management company, approved by the enforcing gency, which can provide verifiable documentation that the percentage of construction and demolition waste	FRES
<ul> <li>Identify diversion facilities where the construction and demolition waste material collected will be taken.</li> <li>Identify construction methods employed to reduce the amount of construction and demolition waste enerated.</li> <li>Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight</li> </ul>	1856
ne project or salvage for future use or sale. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed	E CONTR
onformance with Items 1 through 5. The construction waste management plan shall be updated as necessary	SE COUN
<ol> <li>Alternate waste reduction methods developed by working with local agencies if diversion or recycle acilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.</li> <li>The enforcing agency may make exceptions to the requirements of this section when isolated</li> </ol>	WORKS AND PLANNING
4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management rdinance.  Exceptions:	PWP23-003 DEPARTMENT OF PUBLIC
.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING .408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65	
<b>.406.1 RODENT PROOFING.</b> Annular spaces around pipes, electric cables, conduits or other openings in ole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings	
	ACCESSORY DWELLING UNIT
. The Model Water Efficient Landscape Ordinance (MWELO) is located in the <i>California Code Regulations</i> , Title 3, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available	PROJECT
.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply ith a local water efficient landscape ordinance or the current California Department of Water Resources' Model	<i>#1</i>
	<b>OPTION</b>
	1000 SQ. FT. MODEL (996 SQ.FT.) W/ ADAPTABLE FEATURES
	EFFICIENCY  Addition  Add

ISSUE DATEJOB NUMBERMARCH 7, 20232023\_24DRAWN BYCHECKED BYRWRW

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1000 SQ. FT. MODEL (996

			<u>CO</u>	DE	<u>RESIDENTIAL /</u>	MANDATORY	MEASURES, SHEET 2
N. Y	DIVISION 4.5 ENVIRONMENTAL QUALITY	Y N/A RE	SPON. ARTY	CONT.		Y NA RESPON. PARTY	Adhesives, sealant and caulks used on the project shall meet the
	SECTION 4.501 GENERAL			TABLE 4.504.1 - ADHESIVE VOC LIM	IT 1,2		TABLE 4.504.3 - VOC CONTENT LIMITS FOR
	<b>4.501.1 Scope</b> The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous,						ARCHITECTURAL COATINGS 2,3
	irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.			SPECIALTY APPLICATIONS PVC WELDING	510		SPECIALTY COATINGS (CONT.) VOC LIMIT
	SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS			CPVC WELDING	490		STONE CONSOLIDANTS 450
	The following terms are defined in Chapter 2 (and are included here for reference)			ABS WELDING	325		SWIMMING POOL COATINGS 340
	AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.			PLASTIC CEMENT WELDING	250		TRAFFIC MARKING COATINGS100TUB & TILE REFINISH COATINGS420
	COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and			ADHESIVE PRIMER FOR PLASTIC	550		WATERPROOFING MEMBRANES 250
	medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural			CONTACT ADHESIVE	80		WOOD COATINGS 275
	panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.			SPECIAL PURPOSE CONTACT ADHESIVE	250		WOOD PRESERVATIVES 350
	<b>DIRECT-VENT APPLIANCE.</b> A fuel-burning appliance with a sealed combustion system that draws all air for			TOP & TRIM ADHESIVE	250		ZINC-RICH PRIMERS 340
	combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere. <b>MAXIMUM INCREMENTAL REACTIVITY (MIR).</b> The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to			SUBSTRATE SPECIFIC APPLICATIONS			1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
	hundredths of a gram (g O <sup>3</sup> /g ROC). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections			METAL TO METAL	30		2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
	94700 and 94701.			PLASTIC FOAMS	50		3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY
	MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry			POROUS MATERIAL (EXCEPT WOOD) WOOD	50 30		THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE
	wood.			FIBERGLASS	80		INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.
	<b>PRODUCT-WEIGHTED MIR (PWMIR).</b> The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of						
	product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).			1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SU TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC			TABLE 4.504.5 - FORMALDEHYDE LIMITS 1
	REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to			ALLOWED.			MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION
	ozone formation in the troposphere.			2. FOR ADDITIONAL INFORMATION REGARDING MET THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE S		the	PRODUCT CURRENT LIMIT
	<b>VOC.</b> A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds			QUALITY MANAGEMENT DISTRICT RULE 1168.			HARDWOOD PLYWOOD VENEER CORE 0.05
	typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).			TABLE 4.504.2 - SEALANT VOC LIMIT			HARDWOOD PLYWOOD COMPOSITE CORE     0.05       PARTICLE BOARD     0.09
	4.503 FIREPLACES			(Less Water and Less Exempt Compounds in Gra	ms per Liter)		MEDIUM DENSITY FIBERBOARD 0.11
	<b>4.503.1 GENERAL</b> . Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits			SEALANTS			THIN MEDIUM DENSITY FIBERBOARD 2     0.13
	as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.			ARCHITECTURAL	250		1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL
	4.504 POLLUTANT CONTROL			MARINE DECK	760		MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE
	4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING			NONMEMBRANE ROOF ROADWAY	250		WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH
	<b>CONSTRUCTION.</b> At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component			SINGLE-PLY ROOF MEMBRANE	450		93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM
_	openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.			OTHER	420		THICKNESS OF 5/16" (8 MM).
	4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.			SEALANT PRIMERS		DIVIS	ION 4.5 ENVIRONMENTAL QUALITY (CONT.)
	4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet			ARCHITECTURAL		4.504.3 C	ARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of th
	the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:			NON-POROUS POROUS	250	Chemical	Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Orga Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (E
_	1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks			MODIFIED BITUMINOUS	500		ethod for California Specification 01350)
	shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable.			MARINE DECK	760		ornia Department of Public Health's website for certification programs and testing labs.
	Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and			OTHER	750		/w.cdph. <mark>ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx</mark> .
	tricloroethylene), except for aerosol products, as specified in Subsection 2 below.			Adhesives, sealant and caulks used on the project	t shall meet the		<b>Carpet cushion.</b> All carpet cushion installed in the building interior shall meet the requirements Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Orga
	<ol><li>Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more</li></ol>			TABLE 4.504.3 - VOC CONTENT LIMIT	FOR ARCHITECTURAL		Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (E ethod for California Specification 01350)
	than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of <i>California Code of Regulations</i> , Title			COATINGS 2,3 GRAMS OF VOC PER LITER OF COATING, LE	SS WATER & LESS EXEMPT	See Califo	ornia Department of Public Health's website for certification programs and testing labs.
	17, commencing with section 94507.			COMPOUNDS		https://ww	/w.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.
	4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent				VOC LIMIT	4.504.3.2	Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.
	local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High			FLAT COATINGS	50		RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed , at least 80% of floor a
	Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss			NONFLAT-HIGH GLOSS COATINGS	150	receiving	resilient flooring shall meet the requirements of the California Department of Public Health, "Sta or the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Usin
	VOC limit in Table 4.504.3 shall apply.			SPECIALTY COATINGS		Environm	ental Chambers," Version 1.2, January 2017 (Emission testing method for California Specificati
	<b>4.504.2.3 Aerosol Paints and Coatings</b> . Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain			ALUMINUM ROOF COATINGS	400	See Califr	ornia Department of Public Health's website for certification programs and testing labs.
	toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of			BASEMENT SPECIALTY COATINGS	400		ww.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.
	Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay         Area Air       Quality Management District additionally comply with the percent VOC by weight of product limits         of Regulation       8 Bule 49			BITUMINOUS ROOF COATINGS	250		aph.ou.goth rogramo, oobi in /beobo/eneb/how/rayes/voo.aspx.
	of Regulation 8, Rule 49.			BITUMINOUS ROOF PRIMERS BOND BREAKERS	350		OMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiber
	<b>4.504.2.4 Verification.</b> Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:			CONCRETE CURING COMPOUNDS	350	formaldeh	e wood products used on the interior or exterior of the buildings shall meet the requirements for yde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et s
	<ol> <li>Manufacturer's product specification.</li> <li>Field verification of an site product containers.</li> </ol>			CONCRETE/MASONRY SEALERS	100		the dates specified in those sections, as shown in Table 4.504.5
	2. Field verification of on-site product containers.			DRIVEWAY SEALERS	50		<b>Documentation.</b> Verification of compliance with this section shall be provided as requested by agency. Documentation shall include at least one of the following:
				DRY FOG COATINGS	150		ct certifications and specifications.
				FAUX FINISHING COATINGS	350	3. Produ	of custody certifications. In the composite Wood Products regulation (see CCR, Title 1)
	TABLE 4.504.1 - ADHESIVE VOC LIMIT     1,2       (Less Water and Less Exampt Compounds in Crame per Liter)			FLOOR COATINGS	100	93120, et 4. Exteri	or grade products marked as meeting the PS-1 or PS-2 standards of the Engineered
	(Less Water and Less Exempt Compounds in Grams per Liter)           ARCHITECTURAL APPLICATIONS         VOC LIMIT			FORM-RELEASE COMPOUNDS	250	0121, CS	sociation, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA A 0151, CSA 0153 and CSA 0325 standards.
	INDOOR CARPET ADHESIVES 50			GRAPHIC ARTS COATINGS (SIGN PAINTS)	500		methods acceptable to the enforcing agency. ERIOR MOISTURE CONTROL
	CARPET PAD ADHESIVES 50				420		General. Buildings shall meet or exceed the provisions of the California Building Standards Cod
	OUTDOOR CARPET ADHESIVES 150			INDUSTRIAL MAINTENANCE COATINGS	250		ONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retard Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarde
	WOOD FLOORING ADHESIVES 100			MAGNESITE CEMENT COATINGS	450	California	Residential Code, Chapter 19, or concrete slap-on-ground floors required to have a vapor relarde
	RUBBER FLOOR ADHESIVES     60       SUBFLOOR ADHESIVES     50			MASTIC TEXTURE COATINGS	100	4.505.2.1	Capillary break. A capillary break shall be installed in compliance with at least one of the follo
	SUBFLOOR ADHESIVES50CERAMIC TILE ADHESIVES65			METALLIC PIGMENTED COATINGS	500	1. A 4-in	ch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with
	VCT & ASPHALT TILE ADHESIVES 50			MULTICOLOR COATINGS	250	shrinkage	arrier in direct contact with concrete and a concrete mix design, which will address bleeding, and curling, shall be used. For additional information, see American Concrete Institute,
	DRYWALL & PANEL ADHESIVES 50			PRETREATMENT WASH PRIMERS	420		equivalent methods approved by the enforcing agency.
	COVE BASE ADHESIVES 50			PRIMERS, SEALERS, & UNDERCOATERS REACTIVE PENETRATING SEALERS	100 350		o design specified by a licensed design professional.
	MULTIPURPOSE CONSTRUCTION ADHESIVE 70			RECYCLED COATINGS	250	damage s	<b>IOISTURE CONTENT OF BUILDING MATERIALS.</b> Building materials with visible signs of wat shall not be installed. Wall and floor framing shall not be enclosed when the framing members explanation of the statement
	STRUCTURAL GLAZING ADHESIVES     100       SINGLE-PLY ROOF MEMBRANE ADHESIVES     250			ROOF COATINGS	50		noisture content. Moisture content shall be verified in compliance with the following:
	OTHER ADHESIVES NOT LISTED 50			RUST PREVENTATIVE COATINGS	250	moisture	ure content shall be determined with either a probe-type or contact-type moisture meter.Equivale verification methods may be approved by the enforcing agency and shall satisfy requirements
				SHELLACS		found in S 2. Moistr	Section 101.8 of this code. ure readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamp
					730	each piec	
				OPAQUE SPECIALTY PRIMERS, SEALERS &	550		e to the enforcing agency provided at the time of approval to enclose the wall and floor framing
				UNDERCOATERS	100		products which are visibly wet or have a high moisture content shall be replaced or allowed to a in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying
		- I - I		STAINS	250		III Wall OF HOOF CAVILIES. WEI-ADDIED INSUIAIION OF OF OF OF A MARK THE PROVIDENCE OF

11

# (January 2023)

### Y N/A RESPON. PARTY 4.506 INDOOR AIR QUALITY AND EXHAUST

**4.506.1 Bathroom exhaust fans.** Each bathroom shall be mechanically ventilated and shall comply with the following:

1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.

a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment.

b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

### Notes:

1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination.

2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.

### 4.507 ENVIRONMENTAL COMFORT

4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:

- 1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J 2011 (Residential
- Load Calculation), ASHRAE handbooks or other equivalent design software or methods. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems),
- ÁSHRAE handbooks or other equivalent design software or methods.
- 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S 2014 (Residential Equipment Selection), or other equivalent design software or methods.

**Exception:** Use of alternate design temperatures necessary to ensure the system functions are acceptable.

### **CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS**

### 702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- 1. State certified apprenticeship programs.
- 2. Public utility training programs.
- 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations.
- 5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters,
- performance contractors, and home energy auditors. buildina
- 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

### Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or project they are inspecting for compliance with this code. the 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to homes in California according to the Home Energy Rating System (HERS).

[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

### 703 VERIFICATIONS

2

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.



1000 SQ. FT. MODEL (996

SQ.FT.) W/ ADAPTABLE FEATURES

# ACCESSORY **DWELLING UNIT**

PWP23-003

### DEPARTMENT OF PUBLIC WORKS AND PLANNING



### CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



UPDATE

JULY 10, 2023

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON

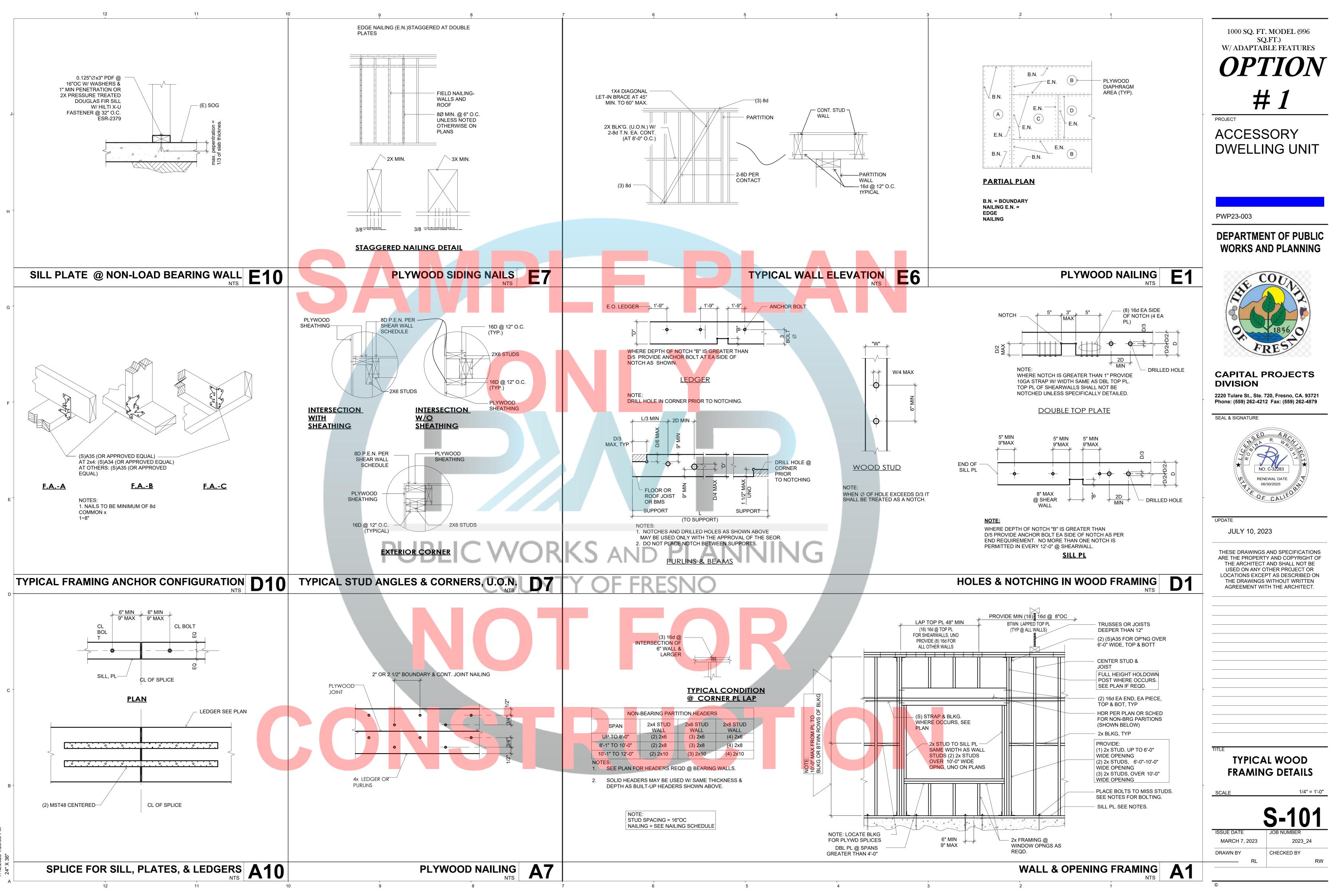
THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

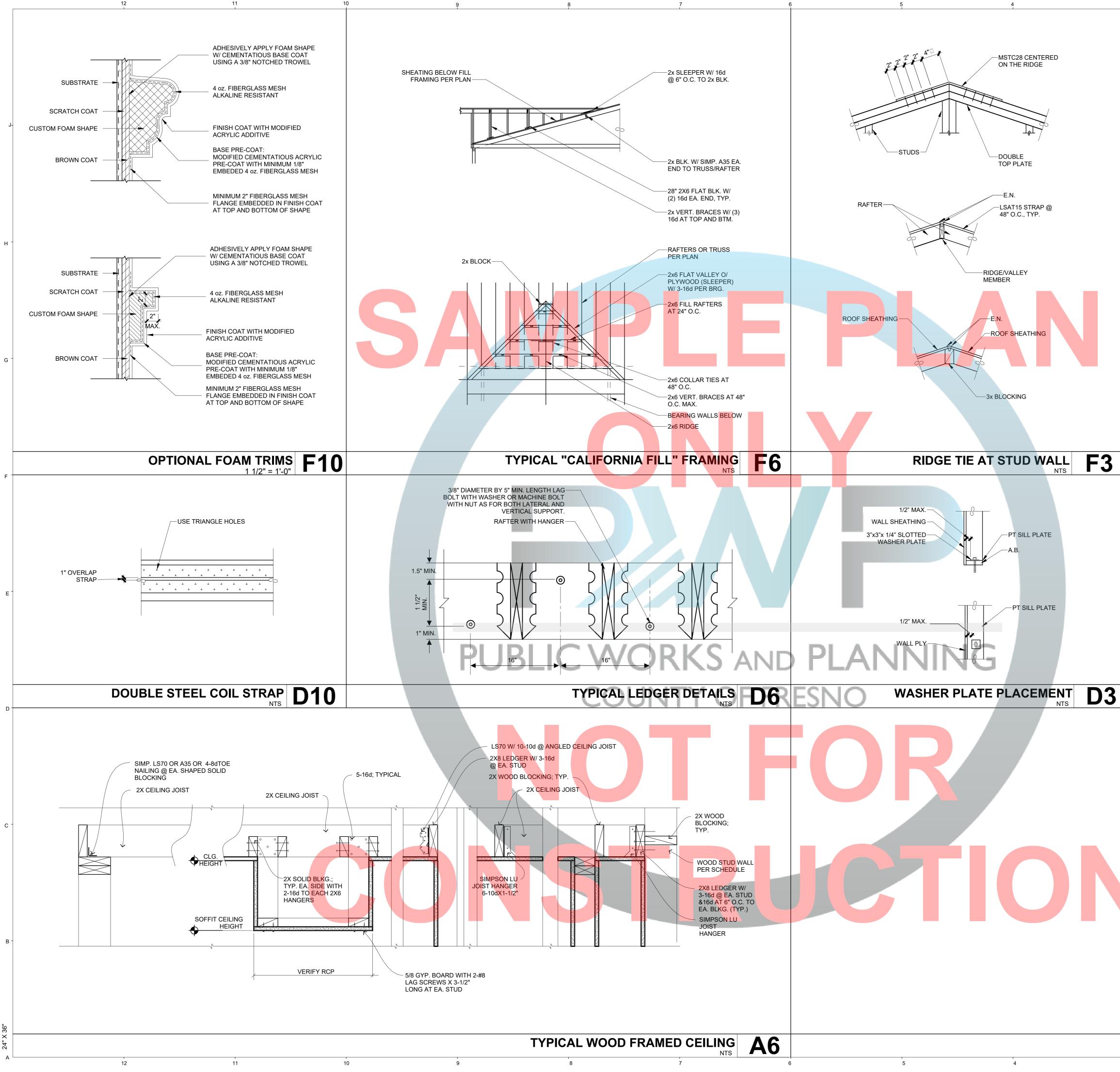
### **GREEN BUILDING** MANDATORY **MEASURES 2**

12" = 1'-0" SCALE

G	BC-2
SSUE DATE	JOB NUMBER
MARCH 7, 2023	2023_24
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- 1. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS. 2. ALL WELDING OF STRUCTURAL STEEL MEMBERS SHALL BE DONE BY CURRENTLY
- CERTIFIED WELDERS AND DONE IN CONFORMANCE WITH THE A.I.S.C. AND A.W.S. SPECIFICATIONS. ALL WELDING SHALL BE ACCOMPLISHED USING THE SHIELD METAL ARC WELDING PROCESS (SMAW WITH E7-XX ELECTRODES OF THE SUBMERGED ARC WELDING PROCESS (SAW) WITH E7X-EXXX ELECTRODES OR THE FLUX-CORED ARC WELDING PROCESS (FCAW WITH E7IT-8 ELECTRODES . (E70T-4 ELECTRODES ALLOWED FOR SHOP WELDING ONLY) LOW HYDROGEN ELECTRODES SHALL BE USED AND KEPT DRY, AND PARENT METALS SHALL BE PREHEATED IN ACCORDANCE WITH AWS STANDARDS. NO WELDING PERMITTED ON
- MEMBERS SUPPORTING LOADS. 3. WHERE THE CONTRACTOR REQUESTS WELDING TO BE USED IN LIEU OF BOLTED CONNECTIONS SUCH WELDING SHALL BE DONE ONLY WITH THE ENGINEERS PRIOR APPROVAL.
- 4. HOLES PUNCHED OR DRILLED IN BEAMS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWING: HOLES FOR BOLTS SHALL BE 1/16" LARGER THAN THE NOMINAL DIAMETER OF THE BOLT WHERE CONNECTION IS OF SHEAR TYPE, AND 3/16" LARGER WHERE CONNECTION IS OF BEARING TYPE ON CONCRETE OR MASONRY.
- ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL RECEIVE ONE SHOP COAT OF RED OXIDE OR ZINC CHROMATE OR APPROVED EQUAL BASE. 6. ALL STRUCTURAL & MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:
- A. WIDE FLANGE MEMBERS (W, S, AND HP SHAPES) ARE TO BE ASTM A992 (Fy=50ksi) IN ACCORDANCE WITH AISC.
- CHANNELS, ANGLES, TEES, AND MISCELLANEOUS AISC STEEL SHAPES ARE TO BE ASTM A36. Fy=36 KSI MIN. UNO HIGH STRENGTH BOLTS: ASTM A325N 1/2" TO 1" DIAMETER INCLUSIVE FY=92 KSI. 1 1/8"
- TO 1 1/2" DIAMETER INCLUSIVE FY=81 KSI
- ASTM A-307 BOLTS SHALL BE USED UNLESS OTHERWISE NOTED. STRUCTURAL PIPE SHALL CONFORM TO A.S.T.M. A-53 GRADE "B" Fy=35 KSI. MIN.
- STRUCTURAL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE "C" Fy=50 KSI. ANCHOR BOLTS: ASTM A307 TYPICAL.
- HEADED STUDS: ASTM A108.
- WELDING ELECTRODES: E70XX
- ALL PLATES, MISC. SHAPES, AND STRUCTURAL SHAPES (AISC, etc.) USED AS PART OF A CONNECTION, DOUBLER PLATES, CONTINUITY PLATES, ETC. IN THESE PLANS SHALL BE MADE OF EQUAL MATERIAL (MATERIAL PROPERTIES, GRADE, YIELD STRENGTH, ETC.) AS THE MAIN STRUCTURAL MEMEBERS BEING CONNECTED, TYP.
- LIGHT GAUGE COLD-FORMED STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS OF THE AISI - GENERAL - 04 AND AISI - NAS - 01
- LIGHT GAUGE STRUCTURAL STEEL SHALL BE SHAPED AS SHOWN IN THE A.I.S.I. DESIGN MANUAL, UNLESS SPECIFICALLY OTHERWISE CALLED FOR.
- 9. ALL ENDS OF EXPOSED STRUCTURAL SHAPES AND TUBE STEEL MEMBERS SHALL HAVE 1/4" CAP PLATE WITH WELDS GRIND SMOOTH. 10. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL TEMPORARY SUPPORTS REQUIRED
- FOR ERECTION. IF ERECTION BRACING IS REQUIRED IT IS TO BE PREPARED BY A LICENSED ENGINEER. 11. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST REVISED
- EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION, WHICH INCLUDES THE SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE CODE OF STANDARD PRACTICE AND THE AWS STRUCTURAL WELDING CODE.
- 12. GROUTING OF COLUMN BASE PLATES: BASE PLATES SHALL BE DRYPACKED OR GROUTED WITH 1 1/2" NON-SHRINK GROUT OR EQUAL. MINIMUM COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS. ALL SURFACES SHALL BE PROPERLY CLEANED OF FOREIGN MATERIAL PRIOR TO THE GROUTING OPERATION.
- 13. FULL PENETRATION WELDED CONNECTIONS (100%) AT MOMENT FRAMES, BRACED FRAMES, AND ALL FULL PENETRATIONS FIELD WELDS SHALL HAVE ULTRASONIC TESTING FOR COMPLIANCE WITH AISC 13th EDITION ULTRASONIC TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY THAT HAS BEEN INSPECTED BY THE NATIONAL STANDARDS. TESTING INSPECTIONS SHALL BE QUALIFIED BY ASNT BUREAU OF RECOMMENDED PRACTICE SNT-TC-A1. PROVIDE PROPER SURFACE PREP. AND BACKUP PLATES AS REQUIRED PER AISC AND AWS.
- 14. ALL EXPOSED WELDS SHALL BE FILLED AND GROUND SMOOTH WHERE METAL COULD COME IN CONTACT WITH THE PUBLIC. UNLESS WELDS ARE PERMITTED BY THE PROJECT ARCHITECT.
- 15. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THRU STRUCTURAL STEEL MEMBERS. BOLT HOLES SHALL CONFORM TO AISC SPECIFICATION, AND SHALL BE STANDARD HOLES UNLESS OTHERWISE NOTED. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT PRIOR CONSENT OF THIS ENGINEER
- HIGH STRENGTH BOLTS WHERE INDICATED IN THE PLANS OR DETAILED SHALL CONFORM 16 TO A.S.T.M. A325 OR A490, AND BE PROVIDED WITH HARDENED WASHERS CONFORMING TO A.S.T.M. F436. SLIP-CRITICAL TYPE BOLTS (A325-SC OR A490-SC) SHALL BE TWIST-OFF-TYPE TENSION-CONTROL BOLT ASSEMBLY. AT CONTRACTORS OPTION, THE COMBINATION OF HIGH STRENGTH BOLTS AND DIRECT TENSION LOAD INDICATING WASHERS CONFORMING TO ASTM F-959 ARE ACCEPTABLE SUBSTITUTIONS. CONTACT SURFACES SHALL BE CLEAN MILL SCALE OR CLASS A QUALIFIED COATINGS.
- 17. ALL SHOP AND FIELD BOLTED CONNECTIONS SHALL BE IN ACCORDANCE WITH ASTM A-307 USING UNFINISHED AMERICAN STANDARD REGULAR BOLTS, UNLESS OTHERWISE NOTED. WHERE STEEL MEMBERS BEAR IN CONCRETE OR MASONRY WALLS, OPENINGS SHALL BE DRY-PACKED AFTER STEEL IS IN PLACE.
- 19. PROVIDE SHOP DRAWINGS INDICATING SIZES, SPACING AND LOCATION OF JOISTS GIRDERS, CONNECTIONS, BRIDGING, REINFORCING, ANCHORAGES, CAMBERS, AND LOADS. INDICATE WELDING CONNECTIONS USING STANDARD AWS WELDING SYMBOLS. INDICATE NEW WELD LENGTHS. INDICATE RECOMMENDED PROCEDURES FOR JOIST SEATS WITH UNSUFFICIENT BEARING.



# ACCESSORY **DWELLING UNIT**

PWP23-003

PROJECT

### **DEPARTMENT OF PUBLIC** WORKS AND PLANNING



### **CAPITAL PROJECTS** DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



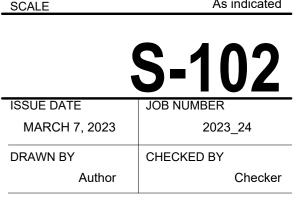
UPDATE

JULY 10, 2023

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STRUCTURAL DETAILS

As indicated



GENERAL STUCTURAL STEEL NOTES A1

NOMINAL	DESCRIPTION <sup>a,b</sup> OF FASTENER	SPACING <sup>c</sup> (	OF FASTEN
MATERIAL THICKNESS (inches)	AND LENGTH (inches)	EDGES (inches)	INTERMI SUPPO (inche
WOOD	STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL AND PARTICLEBOARD WALL SHEATHING TO		FRAMING
	STAPLE 15 GA. 13/4	4	8
UP TO 1/2	0.097 - 0.099 NAIL 21/4 STAPLE 16 GA. 13/4	3	6
	0.113 NAIL 2	3	6
19/32 AND 5/8	STAPLE 15 AND 16 GA. 2	4	8
	0.097 - 0.99 NAIL 21/4 STAPLE 14 GA. 2	4	8
23/32 AND 3/4	STAPLE 15 GA. 13/4	3	6
23/32 AND 3/4	0.097 - 0.099 NAIL 21/4	4	8
	STAPLE 16 GA. 2 STAPLE 14 GA. 21/4	4	8
	0.113 NAIL 21/4	3	6
I	STAPLE 15 GA. 21/4	4	8
	0.097 - 0.099 NAIL 21/2	4	8
NOMINAL MATERIAL		SPACING <sup>©</sup> (	
THICKNESS (inches)	AND LENGTH (inches)	EDGES (inches)	BODY PAN (inch
FLOOR,	UNDERLAYMENT; PLYWOOD-HARDBOARD-PARTICL	.EBOARD <sup>f</sup> -FIBEF	R-CEMENT <sup>h</sup>
	FIBER-CEMENT		
	3D, CORROSION-RESISTANT, RING SHANK NAILS (FINISHED FLOORING OTHER THAN TILE)	3	6
1/4	STAPLE 18 GA., 7/8 LONG, 1/4 CROWN (FINISHED FLOORING OTHER THAN TILE)	3	6
1 1/4 LONG	X .121 SHANK x .375 HEAD DIAMETER CORROSION-R ED OR STAINLESS STEEL) ROOFING NAILS (FOR TILI	ESISTANT E FINISH)	8
1 1/4 LONG	NO. 8 x .375 HEAD DIAMETER, RIBBED WAFER- HEAD (FOR TILE FINISH) PLYWOOD	SCREW§	8
	1 1/4 RING OR SCREW SHANK NAIL-MINIMUM 12 1/2 GA. (0.099") SHANK DIAMETER	3	6
1/4 AND 5/16	STAPLE 18 GA., 7/8, 3/16 CROWN WIDTH	2	5
1/32, 3/8, 15/32, AND 1/2	1 1/4 RING OR SCREW SHANK NAIL-MINIMUM 12 1/2 GA. (0.099") SHANK DIAMETER	6	8
19/32, 5/8, 23/32	1 1/2 RING OR SCREW SHANK NAIL-MINIMUM 12 1/2 GA. (0.099") SHANK DIAMETER	6	8
AND 3/4	STAPLE 16 GA. 1 1/2	6	8
	HARDBOARD <sup>f</sup>		•
	1 1/2 LONG RING- GROOVED UNDERLAYMENT NAIL	6	6
0.200	4D CEMENT-COATED SINKER NAIL STAPLE 18 GA., 7/8 LONG (PLASTIC COATED)	6	6
	PARTICLEBOARD		1
1/4	4D RING-GROOVED UNDERLAYMENT NAIL	3	6
.,, ,	STAPLE 18 GA., 7/8 LONG, 3/16 CROWN	3	6
3/8	6D RING-GROOVED UNDERLAYMENT NAIL STAPLE 16 GA., 1 1/8 LONG, 3/8 CROWN	6 3	6
1/2, 5/8	6D RING-GROOVED UNDERLAYMENT NAIL	6	1(
FOR SI: 1 inch = 2	STAPLE 16 GA., 1 5/8 LONG, 3/8 CROWN	3	6
a. NAIL IS A GE ROUND HEA D. STAPLES SH NOTED. D. NAILS OR ST	ENERAL DESCRIPTION AND SHALL BE PERMITTED TO D OR ROUND HEAD. HALL HAVE A MINIMUM CROWN WIDTH OF 7/16-INCH C FAPLES SHALL BE SPACES AT NOT MORE THAN 6 INC	ON DIAMETER EX	CEPT AS
SPACED AT FLOORS. I. FASTENERS 5. FOR 5-PLY F CENTER EAG	WHERE SPANS ARE 48 INCHES OR GREATER. NAILS ( NOT MORE THAN 12 INCHES ON CENTER AT INTERMI SHALL BE PLACE IN A FRID PATTERN THROUGHOUT PANELS, INTERMIDIATE NAILS SHALL BE SPACED NOT CH WAY. D UNDERLAYMENT SHALL CONFORM TO CPA/ANSI A1	DIATE SUPPOR THE BODY OF 1 MORE THAN 12	TS FOR THE PANEL
I. SPECIFIAD A WHERE THE ATTACHING SHALL BE IN	ALTERNATE ATTACHEMENTS FOR ROOF SHEATHING ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 M WOOD STRUCTURAL PANEL ROOF SHEATHING TO G ISTALLED USING THE SPACING LISTED FOR PANEL E ENT UNDERLAYMENT SHALL CONFORM TO ASTM C 12	SHALL BE PERM IPH. FASTENERS ABLE END WALL DGES.	S _ FRAMING
. FIBER-CEME			, CATEGO

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		9			8			<u>р</u>	5 4		3		2 	1	
		702.3.5 MI						DESCRIPTION OF BUILDING	TABLE R60	02.3 (1) FASTENI spacing and		CHEDULE DESCRIPTION OF BUI		NUMBER AND TYPE	SPACING AND
		YPSUM PA					ITE	ELEMENTS	OF FASTENERS <sup>a,b,c</sup> 4-8d BOX (2 1/2" x 0.113") OR	LOCATION		ELEMENTS		OF FASTENERS <sup>a,b,c</sup>	LOCATION
THICKNESS OF GYPSUM BOARD OR	APPLICATION	ORIENTATION OF GYPSUM BOARD OR	MAXIMUM SPACING OF	SPA FAS	AXIMUM CING OF STENERS	SIZE OF NAILS FOR APPLICATION	1	BLOCKING BETWEEN CEILING JOIST OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131 NAILS	TOE NAIL	21	JOIST TO SILL, TOP PLATE OR GIR		FLOOR 4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR	TOE NAIL
GYPSUM PANEL PRODUCTS (inches)		GYPSUM PANEL PRODUCT TO FRAMING	FRAMING MEMBERS (inches O.C.)		a SCREWS	TO WOOD FRAMING°	2	CEILING JOIST TO TOP PLATE	4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131 NAILS	PER JOIST TOE NAIL	22	RIM JOIST, BAND JOIST OR BLOCK PLATE (ROOF APPLICATIONS ALS	KING TO SILL OR TO	-3-3" x 0.131 NAILS 8d BOX (2 1/2" x 0.131")	4" O.C. TOE NAIL 6" O.C. TOE NAIL
	CEILING <sup>d</sup>	PERPENDICULAR	16	HESIVE 7	12	13 GAGE, 1 1/4" LONG, 19/64" HEAD; 0.098" DIAMETER, 1 1/4" LONG, ANNULAR-RINGED;	3	CEILING JOIST NOT ATTACHED TO PARALLERL RAFTERS, LAPS OVER PARTITION [SEE SECTION R802.31, R802.3.2 AND TABLE R802.5.1 (9)]	4-10d BOX (2 1/2" x 0.113") OR 3-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR	FACE NAIL	23	1" x 6" SUBFLOOR OR LESS TO EA		-3" x 0.131" NAILS 3-8d BOX (2 1/2" x 0.113") OR 2-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR	FACE NAIL
3/8	WALL	EITHER DIRECTION	16	8	16	OR 4d COOLER NAIL, 0.080" DIAMETER, 13/8" LONG, 7/32" HEAD.			4-3" x 0.131 NAILS		24	2" SUBFLOOR TO JOIST OR GIRDE	ER	2 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG- 3-16d BOX (3" x 0.135") OR _2-16d COMMON (3 1/2" x 0.162")	BLIND AND FACE NAIL
	CEILING	EITHER DIRECTION	16	7	12	13 GAGE, 13/8" LONG, 19/64" HEAD; 0.098" DIAMETER, 1 1/4" LONG,	4	CEILING JOIST ATTACHE TO PARALLEL RAFTER (HEEL JOINT) [SEE SECTION R802.31 AND R802.3.2 AND TABLE R802.5.1 (9)] COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" x 20ga.	TABLE R802.51 (9) 4-10d BOX (3" x 0.128") OR		25	2" PLANLKS (PLANK & BEAM - FLO BAND OR RIM JOIST TO JOIST	,	3-16d BOX (3" x 0.135") OR 2-16d COMMON (3 1/2" x 0.162") 3-16d COMMON (3 1/2" x 0.162") OR 4-10d BOX (3" x 0.128"); OR	AT EACH BEARING FACE NAIL
1/2	CEILING d WALL	PERPENDICULAR EITHER DIRECTION	24	7	12	ANNULAR-RINGED; OR 5d COOLER NAIL, 0.086" DIAMETER, 15/8" LONG, 15/64" HEAD; OR	5	RIDGE STRAP TO RAFTER	3-10d COMMON (3" x 0.148"); OR 4-3" x 0.131 NAILS 3-16d BOX (3 1/2" x 0.135") OR	FACE NAIL EA. RAFTER				4-3 x 0.131" NAILS; OR -4-3 x 14ga. STAPLES, 7/16" CROWN 20d COMMON (4" x 0.192")	NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP
	WALL	EITHER DIRECTION	16	8	16	GYPSUM BOARD NAIL, 0.086" DIAMETER, 15/8" LONG, 9/32" HEAD.	6	RAFTER OR ROOF TRUSS TO PLATE	3-10d COMMON NAILS (3 1/2" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS	1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS	27	BUILT-UP GIRDERS AND BEAMS, 2	BUILT-UP GIRDERS AND BEAMS. 2" LUMBER LAYERS		AND BOTTOM AND STAGGERED 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON
	CEILING	EITHER DIRECTION	16	7	12	13 GAGE, 15/8" LONG, 19/64" HEAD; 0.098" DIAMETER, 13/8" LONG, ANNULAR-RINGED; OR 6d COOLER NAIL, 0.092" DIAMETER,	7	ROOF RAFTERS TO RIDGR, VALLET OR HIP RAFTERS OR	4-16d BOX (3 1/2" x 0.135") OR 3-10d COMMON NAILS (3 1/2" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS	TOE NAIL				3" x 0.131" NAILS AND 2-20d COMMON (4" x 0.192"); OR 2 10d ROX (2" x 0.128"); OR	OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SPLICE
	CEILING	PERPENDICULAR	24	7	12	17/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIAMETER, 17/8" LONG, 19/64" HEAD.		ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	3-16d BOX (3 1/2" x 0.135") OR 3-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL	28	LEDGER STRIP SUPPORTING JOIS		3-10d BOX (3" x 0.128"); OR -2.3" x 0.131" NAII S 4-16d BOX (3 1/2" x 0.135") OR 3-16d COMMON (3 1/2" x 0.162"); OR 4-10d BOX (3" x 0.128"); OR -4-3 x 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE NAIL
5/8	TYPE X AT GARAGE BENEATH HABITABLE ROOMS	PERPENDICULAR	24	6	6	17/8" LONG 6d COATED NAILS OR EQUIVALENT DRYWALL SCREWS. SCREWS SHALL COMPLY WITH SECTION R702.3.5.1		STUD TO STUD (NOT AT BRACED WALL PANELS)	WALL 16d COMMON (3 1/2" x 0.162")	24" O.C. FACE NAIL	29	BRIDGING TO JOIST		2-10d (3" x 0.128")	EACH END, TOE NAIL
	WALL	EITHER DIRECTION	24	8	12	13 GAGE, 15/8" LONG, 19/64" HEAD; 0.098" DIAMETER, 13/8" LONG, ANNULAR-RINGED; 6d COOLER NAIL, 0.092"	0	STUD TO STUD (NOT AT BRACED WALL PANELS)	10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS 16d BOX (3 1/2" x 0.135"); OR	16" O.C. FACE NAIL	ITEM	DESCRIPTION OF BUI	ILDING	NUMBER AND TYPE OF FASTENERS <sup>a,b,c</sup>	SPACING OF FASTENERS EDGES INTERMIDIATE (inches) SUPPORTS
	WALL	EITHER DIRECTION	16	8	16	DIAMETER, 17/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIAMTER, 17/8" LONG, 19/64" HEAD.	9	WALL CORNERS (AT BRACED WALL PANELS)	3" x 0.131" NAILS 16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL			,	INTERIOR WALL SHEATHING TO FRAMING A	(inches) AND PARTICLE BOARD WALL
		APPLICATION	WITH ADHE	SIVE	1	The Long, 19/04 TILAD.	10	BUILT-IP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16d COMMON (3 1/2" x 0.162") 16d BOX (3" x 0.135")	16" O.C. EACH EDGE FACE NAIL 12" O.C. EACH EDGE FACE NAIL	30	3/8" - 1/2"		6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON (2 1/2" x 0.131") NAIL (ROOF)	6" 12"
	CEILING d	PERPENDICULAR	16	16	16	SAME AS ABOVE FOR 3/8" GYPSUM BOARD AND GYPSUM BOARD	11	CONTINOUSE HEADER TO STUD	5-8d BOX (2 1/2" x 0.113") OR 4-8d COMMON (2 1/2" x 0.131"); OR	TOE NAIL	31	10/32" - 1"		8d COMMON NAIL (2 1/2" x 0.131")	6" 12"
3/8	WALL	EITHER DIRECTION	16	16	24	AND GYPSUM PANEL PRODUCTS.			4-10d BOX (3" x 0.128" 16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL	32	1 1/8" - 1 1/4"		10d COMMON NAIL (3" x 0.148") NAIL; OR 8d (2 1/2" x 0.131") NAIL (ROOF)	6" 12"
	CEILING	EITHER DIRECTION	16	16	16	SAME AS ABOVE FOR 1/2" AND	12	TOP PLATE TO TOP PLATE	10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS 8-16d BOX (3 1/2" x 0.162") OR	12" O.C. FACE NAIL	33	1/2" STRUCTURAL CELLULOSIC FI		R WALL SHEATHING 1 1/2" GALANIZED ROOFING NAIL, 7/16" H HIIDIAMETER, OR 1" CROWN STAPLE 16ga.	EAD 3" 6"
1/2 OR 5/8	CEILING <sup>d</sup>	PERPENDICULAR	24	12	16	5/8" GYPSUM BOARD AND GYPSUM PANEL PRODUCTS, RESPECTIVELY		DOUBLE TOP PLATE SPLICE FOR SDCs A-D2 WITH SEISMIC BRACED WALL LINE SPACING <25'	12-16d BOX (3 1/2" x 0.135"); OR 12-10d BOX (3" x 0.128"); OR 12-3" x 0.131 NAILS	PER JOIST TOE NAIL	34	25/32" STRUCTURAL CELLULOSIC	FIBERBOARD SHE	1 1/4" LONG 1 3/4" GALANIZED ROOFING NAIL, 7/16" H AT DIAMETER, OR 1" CROWN STAPLE 16ga. 1 1/4" LONG	EAD 3" 6"
	CEILING	EITHER DIRECTION	24 16	16 16	16	BASE PLY NAILED AS ABOVE FOR 1/2" GYPSUM BOARD AND	13	DOUBLE TOP PLATE SPLICE FOR SDCs D0, D1, D2, AND BRACED WALL LINE SPACING >25'	12-16d (3 1/2" x 0.135")	FACE NIAL ON EACH SIDE OF END JOINT (MIN. 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	35	1/2" GYPSUM SHEATHING		1 1/2" GALANIZED ROOFING NAIL, STAPL GALVANIZED 1 1/2" LONG, 1 1/4" SCREWS, TYPE W OR	S7" 7"
TWO 3/8 LAYERS	WALL	EITHER DIRECTION	24	24	24	GYPSUM PANEL PRODUCTS; FACE PLY INSTALLED WITH ADHESIVE.	14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162") 16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	16" O.C. FACE NAIL 12" O.C. FACE NAIL	36	5/8" GYPSUM SHEATHING		1 3/4" GALANIZED ROOFING NAIL, STAPL GALVANIZED 1 5/8" LONG, 1 5/8" SCREWS, TYPE W OR	S7" 7" 
	ATION WITHOUT ADHES					OR MORE THAN 2 1/2 INCHES APART SHALL	15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	3" EA. 16" O.C. FACE NAIL 2" EA. 16" O.C. FACE NAIL 4" EA. 16" O.C. FACE NAIL	37	WOOD STRUCTURA 3/4" AND LESS	L PANELS, COMBIN	6d DEFORMED (2" x 0.120") NAIL; OR	RAMING 6" 12"
b. SCREWS SH STRUCTURA	L INSULATED PANELS S	E WITH SECTION R702 SHALL PENETRATE TH	.3.5.1. SCREWS I E WOOD STRICT	FOR ATTAC	CHING GYPSUM EL FACING NOT				4-8d BOX (2 1/2" x 0.113") OR 3-16d BOX (3 1/2" x 0.135"); OR	TOE NAIL		7/8" - 1"		8d COMMON (2 1/2" x 0.131") NAIL 8d COMMON (2 1/2" x 0.131") NAIL; OR 8d DEFORMED (2 1/2" x 0.120") NAIL	6" 12"
NOT LESS TH WHERE THE	HAN 5/8 INCH LONGER T COLD-FORMED STEEL	THAN THE GYPSUM BO FRAMING HAS A NAILI	ARD OR GYSUM	PANEL PR	RODUCT THICKN RECIEVE THE NA	TWO EDGES OF METAL, THE NAILS SHALL BE ESS AND SHALL HAVE RINGED SHANKS. ILS, THE NAILS SHALL HAVE BARBED SHANKS	16	TOP OR BOTTOM PLATE TO STUD	4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS		39	1 1/8" - 1 1/4"		10d COMMON (3" x 0.148") NAIL; OR 8d DEFORMED (2 1/2" x 0.120") NAIL	6" 12"
13 GAGE, 17	8 INCHES LONG, 15/64-	INCH HEAD FOR 5/8-IN	CH GYPSUM BOA	ARD OR GY	PSUM PANEL P	SUM PANEL PRODUCT; AND 6D, RODUCT. IT BE USE ON A CEILING WHERE A	A	TOP OR BOTTOM PLATE TO STOD	3-16d BOX (3 1/2" x 0.135") OR 2-16d COMMON (3 1/2" x 0.162"); OR	END NAIL		: 1: 1 inch = 25.4 mm, 1 FOOT = 304.8mi All S ARE SMOOTH-COMMON, BOX O	,	· •	NAILS USED FOR FRAMING AND SHEATHING
APPLICATION PRODUCT SI BOARD THIC	NS TO RECIEVE A WATE HALL BE APPLIED PERP	R-BASED TEXTURE M ENDICULAR TO FRAM EASED FROM 3/8 INCH	ATERIAL, EITHEF NG. WHERE APP TO 1/2 INCH FOI	r hand or Plying a W R 16-inch (	SPRAY APPLIE ATER-BASED TE ON CENTER FRA	TINSULATION ABOVE A CEILING. ON CEILING D, THE GYPSUM BOARD OR GYPSUM PANEL EXTURE MATERIAL, THE MINIMUM GYPSUM AMING, AND FROM 1/2 INCH TO 5/8 INCH	)F	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 3-10d BOX (3" x 0.128") OR	FACE NAIL	CC (20 DL b. ST	DNNECTIONS SHALL HAVE MINIMUM Dd COMMON NAIL), 90 KSI FOR SHAN AMETERS OF 0.142 INCH OR LESS. APLES ARE 16 GAGE WIRE AND HAN	I AVERAGE BENDIN IK DIAMETERS LAR VE A MINIMUM 7/16-	G YIELD STRENGTHS AS SHOWNI: 80 KSI FO GER THAN 0.142 INCH BUT NOT LARGER TH INCH ON DIAMETER CROWN WIDTH.	OR SHANK DIAMETER OF 0.192 INCH IAN 0.177 INCH, AND 100 KSI FOR SHANK
								TOP PERTES, EAPS AT CONNERS AND INTERSECTIONS	2-16d COMMON (3 1/2" x 0.162"); OR 3-3" x 0.131" NAILS		d. FC e. SF	OUR-FOOT BY 8-FOOT OR 4-FOOT BY PACING OF FASTENERS NOT INCLUD	9-FOOT PANELS S DED IN THIS TABLE S	ON CENTER AT ALL SUPPORTS WHERE SP/ HALL BE APPLIED VERTICALLY. SHALL BE BASED ON TABLE R602.3(2). OR LESS. NAILS FOR ATTACHING WOOD S <sup>-</sup>	
	STRUCTU	R602.3(3) R RAL PANE RESIST \	L WALL	SHE	ATHING		18	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2 1/2" x 0.113") OR 2-8d COMMON (2 1/2" x 0.113"); OR 2-10d BOX (3" x 0.128"); OR 2 STAPLES 1 3/4"	FACE NAIL	GABL NAILS DISTA g. GY	E END WALL FRAMING SHALL BE SP S FOR ATTACHING PANEL ROOF SHE ANCE FROM RIDGES, EAVES AND GA	PACED 6 INCHES ON EATHING TO INTERN ABLE END WALLS; A	N CENTER. WHERE THE U;TIMATE DESIGN N MEDIATE SUPPORTS SHALL BE SPACED 6 II AND 4 INCH ON CENTER TO GABLE END WA	VIND SPEED IS GREATER THAN 130 MPH, MCHES ON CENTER FOR MINIMUM 48-INCH
	1 NAIL STR	WOOD NOI RUCTURAL PA NEL SPAN THIC	NEL ST	CING	PANEL NA SPACING EDGES		19	1" x6" SHEATHING TO EACH BEARING	3-8d BOX (2 1/2" x 0.113") OR 2-8d COMMON (2 1/2" x 0.113"); OR 2-10d BOX (3" x 0.128"); OR	FACE NAIL	h. SF BL SL	PACING OF FASTENERS ON FLOOR S OCKING AND AT ALL FLOOR PERIME JPPORTED BY FRAMING MEMBERS A	ETERS ONLY. SPAC AND REQUIRED BLC	ING OF FASTENERS ON ROOF SHETHING F DCKING. BLOCKING OF ROOF OR FLOOR SH	RTED BY FRAMING MEMBERS AND REQUIRED ANEL EDGES APPLIES TO PANEL EDGES IEATHING PANEL EDGES PERPENDICULAR TO OF THIS CODE. FLOOR PERIMETER SHALL BE
SIZE 6d COMMON (2.0" x 0.113")	(inches)		3/8 3	3/8	(inches o.c.) 16	(inches o.c.)         B         C         D           12         140         115         110			2 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG 3-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.113"); OR		i. Wi ON O		N ADJACENT PARAL NAILS FROM THE CE	LLEL CEILING JOIST IN ACCORDANCE WITH EILING JOIST TO TOP PLATE IN ACCORDAN	THIS SCHEDULE, PROVIDE TWO TOE NAILS CE WITH THIS SCHEDULE. THE TOE NAIL ON
8d COMMON (2.5" x 0.131") FOR SI: 1 inch	1.75 = 25.4 mm, 1 MILt		/16 7	/16 /16	16 24	12     170     140     135       12     140     115     110	20	1" x 8" WIDER SHEATHING TO EACH BEARING	3-10d BOX (3" x 0.128"); OR 3 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG	FACE NAIL		TABLE	R602.3 (	2) SINGLE TOP-PLA	TE
a. PANEL STRENG ON CENTER SH	TH AXIS PARALLEL OR	PERPENDICULAR TO PANEL STRENGTH AXI	SUPPORTS. THRI	AR TO SUP	PORTS.	NG WITH STUDS SPACED MORE THAN 16 INCHES			WIDER THAN 1" x 8" 4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR			SPL		INECTION DETAILS	
BRACING REQU	IREMENTS SHALL BE IN	I ACCORDANCE WITH	SECTION R602.1	0.		AN ALTERNATE TO PANELS WITH A 24/0			4 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG		STF	CONDITION 			TT JOINTS IN A
SPAN RATING.	ORAL PANELS WITH SP PLYWOOD SIDING RATE SIDING 16 O.C. SHALL E	D 16 O.C. <mark>OR 24</mark> O.C. S	SHALL BE PERMI	TTED AS AI	N ALTERNATE T	O PANELS WITH A 24/16 SPAN RATING. WALL-16						D2, WITH RACED WALL LINE SPACING GREATER THAN		S	RAIGHT WALL
	TABLE R60 PARTIC	)2.3(4) ALL LE BOARD									D0, D1	ICTURE IN SDC A-C; AND IN SDC AND D2 WITH BRACED WALL LINE	SPLICE PLATE SIZ 3" x 6" x 0.036" GALVANIZED STEE	SIDE OF JOINT         3" x 12" x 0           (6) 8d BOX         3" x 12" x 0           EL         (2 1/2" x 0.113")         GALVANIZED	SIDE OF JOINT           .036"         (12) 8d BOX           STEEL         (2 1/2" x 0.113")
THICKNESS (inches)	GRADE	WHEN SIDING IS			NG (inches) WHEN SIDING	G IS NAILED TO SHEATHING					S	PACING LESS THAN 25 FEET	PLATE OR EQUIVALENT 3" x 8" x 0.036"	(9) 8d BOX	ENT 0.036"
3/8	M-1 EXTERIOR GLUE		6			 16							GALVANIZED STEE PLATE OR EQUIVALENT	EL (2 1/2" x 0.113") NAILS EQUIVAL	OR (10) OL DOX
	NGNOT EXPOSED TO TH					END JOINTS OF THE PANEL SHALL BE OFFSET SO					FOR SI	: 1 inch = 25.4 mm, 1 FOOT = 304.8 m	ım		INAILS

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		702.3.5 MIN ATION OF					ІТЕМ	DESCRIPTION OF BUILDING	NUMBER AND TYPE	502.3 (1) FASTENII Spacing and Location		DESCRIPTION OF BUIL	DING		SPACING AND
	G	YPSUM PA		RODU	CTS				OF FASTENERS <sup>a,b,c</sup> 4-8d BOX (2 1/2" x 0.113") OR	TOE NAIL		ELEMENTS		OF FASTENERS <sup>a,b,c</sup>	LOCATION
THICKNESS OF GYPSUM BOARD OR	APPLICATION	OF GYPSUM BOARD OR	MAXIMUM SPACING OF	SPAC FAS	XIMUM CING OF TENERS	SIZE OF NAILS FOR APPLICATION	1	BLOCKING BETWEEN CEILING JOIST OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131 NAILS		<b>21</b> J	IOIST TO SILL, TOP PLATE OR GIRD	DER	4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR	TOE NAIL
GYPSUM PANEL PRODUCTS (inches)	AFFLICATION	GYPSUM PANEL PRODUCT TO FRAMING	FRAMING MEMBERS (inches 0.C.)	· · ·	SCREWS	TO WOOD FRAMING <sup>e</sup>	2	CEILING JOIST TO TOP PLATE	4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR	PER JOIST TOE NAIL	22 F	RIM JOIST, BAND JOIST OR BLOCKI	NG TO SILL OR TO	-3-3" x 0.131 NAILS	4" O.C. TOE NAIL
	1		,	HESIVE					3-3" x 0.131 NAILS 4-10d BOX (2 1/2" x 0.113") OR		P	PLATE (ROOF APPLICATIONS ALSO	)	10d BOX (3" x 0.128"); OR -3" x 0.131" NAILS	6" O.C. TOE NAIL
3/8	CEILING d	PERPENDICULAR EITHER DIRECTION	16	7	12	13 GAGE, 1 1/4" LONG, 19/64" HEAD; 0.098" DIAMETER, 1 1/4" LONG, ANNULAR-RINGED; OR 4d COOLER NAIL, 0.080" DIAMETER, 13/8" LONG,	3	CEILING JOIST NOT ATTACHED TO PARALLERL RAFTERS, LAPS OVER PARTITION [SEE SECTION R802.31, R802.3.2 AND TABLE R802.5.1 (9)]	3-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS	FACE NAIL		" x 6" SUBFLOOR OR LESS TO EAC		2-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR -2 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG	FACE NAIL BLIND AND FACE NAIL
	CEILING	EITHER DIRECTION	16	0 7	10	7/32" HEAD. 13 GAGE, 13/8" LONG,	4	CEILING JOIST ATTACHE TO PARALLEL RAFTER (HEEL JOINT) [SEE SECTION R802.31 AND R802.3.2 AND TABLE R802.5.1 (9)]	TABLE R802.51 (9)	FACE NAIL		2" PLANLKS (PLANK & BEAM - FLOO	R & ROOF)	2-16d COMMON (3 1/2" x 0.162") 3-16d BOX (3" x 0.135") OR 2-16d COMMON (3 1/2" x 0.162")	AT EACH BEARING FACE NAIL
4/2	CEILING d	PERPENDICULAR	24	7	12	19/64" HEAD; 0.098" DIAMETER, 1 1/4" LONG, ANNULAR-RINGED; OR 5d COOLER NAIL, 0.086"	5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" x 20ga. RIDGE STRAP TO RAFTER	4-10d BOX (3" x 0.128") OR 3-10d COMMON (3" x 0.148"); OR 4-3" x 0.131 NAILS	FACE NAIL EA. RAFTER	<b>26</b> B	BAND OR RIM JOIST TO JOIST		3-16d COMMON (3 1/2" x 0.162") OR 4-10d BOX (3" x 0.128"); OR 4-3 x 0.131" NAILS; OR -4-3 x 14ga. STAPLES, 7/16" CROWN	END NAIL
1/2	WALL	EITHER DIRECTION	24	8	12	DIAMETER, 15/8" LONG, 15/64" HEAD; OR GYPSUM BOARD NAIL, 0.086" DIAMETER, 15/8" LONG, 9/32" HEAD.	6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX (3 1/2" x 0.135") OR 3-10d COMMON NAILS (3 1/2" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS			_	20d COMMON (4" x 0.192")	NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND
	WALL	EITHER DIRECTION	16	8	16	9/32 HEAD. 13 GAGE, 15/8" LONG,			4-3" x 0.131 NAILS 4-16d BOX (3 1/2" x 0.135") OR		27 8	BUILT-UP GIRDERS AND BEAMS, 2"		10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	CEILING	EITHER DIRECTION	16	7	12	19/64" HEAD; 0.098" DIAMETER, 13/8" LONG, ANNULAR-RINGED; OR 6d COOLER NAIL, 0.092" DIAMETER,	7	ROOF RAFTERS TO RIDGR, VALLET OR HIP RAFTERS OR	3-10d COMMON NAILS (3 1/2" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS	TOE NAIL				AND 2-20d COMMON (4" x 0.192"); OR	FACE NAIL AT ENDS AND AT EACH SPLICE
	CEILING	PERPENDICULAR	24	7	12	17/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIAMETER, 17/8" LONG, 19/64" HEAD.		ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	3-16d BOX (3 1/2" x 0.135") OR 3-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL	28 L	EDGER STRIP SUPPORTING JOIST	S OR RAFTERS	3-10d BOX (3" x 0.128"); OR -3-2" v 0 131" NAILS 4-16d BOX (3 1/2" x 0.135") OR 3-16d COMMON (3 1/2" x 0.162"); OR 4-10d BOX (3" x 0.128"); OR	AT EACH JOIST OR RAFTER, FACE NAIL
5/8	TYPE X AT GARAGE	PERPENDICULAR	24	6	6	17/8" LONG 6d COATED NAILS OR EQUIVALENT DRYWALL SCREWS. SCREWS SHALL COMPLY WITH			WALL		<b>29</b> B	BRIDGING TO JOIST		_4-3 x 0.131" NAILS 2-10d (3" x 0.128")	EACH END, TOE NAIL
	BENEATH HABITABLE ROOMS					SECTION R702.3.5.1	8	STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162") 10d BOX (3" x 0.128"); OR	24" O.C. FACE NAIL 16" O.C. FACE NAIL					SPACING OF
	WALL	EITHER DIRECTION	24	8	12	19/64" HEAD; 0.098" DIAMETER, 13/8" LONG, ANNULAR-RINGED; 6d COOLER NAIL, 0.092"	9	STUD TO STUD AND ABUTTING STUDS AR INTERSECTING	3" x 0.131" NAILS 16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL	ITEM	DESCRIPTION OF BUIL ELEMENTS	LDING	NUMBER AND TYPE OF FASTENERS <sup>a,b,c</sup>	FASTENERS         EDGES (inches)       INTERMIDIATE SUPPORTS
	WALL	EITHER DIRECTION	16	8	16	DIAMETER, 17/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIAMTER, 17/8" LONG, 19/64" HEAD.		WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162") 16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL 16" O.C. EACH EDGE				NTERIOR WALL SHEATHING TO FRAMING AN D STRUCTURAL PANEL EXTERIOR WALL SHE	
		APPLICATION		SIVE			10	BUILT-IP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16d BOX (3" x 0.135")	FACE NAIL 12" O.C. EACH EDGE FACE NAIL	<b>30</b> 3	8/8" - 1/2"		6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON (2 1/2" x 0.131") NAIL (ROOF)	6" 12"
3/8	CEILING d	PERPENDICULAR	16	16	16	SAME AS ABOVE FOR 3/8" GYPSUM BOARD AND GYPSUM BOARD	11	CONTINOUSE HEADER TO STUD	5-8d BOX (2 1/2" x 0.113") OR 4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128"	TOE NAIL		10/32" - 1"		8d COMMON NAIL (2 1/2" x 0.131") 10d COMMON NAIL (3" x 0.148") NAIL; OR	6" 12" 6" 12"
5/6	WALL	EITHER DIRECTION	16	16	24	AND GYPSUM PANEL PRODUCTS.	12	TOP PLATE TO TOP PLATE	16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL		1/8" - 1 1/4"		_8d (2 1/2" x 0.131") NAIL (ROOF)	0 12
	CEILING	EITHER DIRECTION	16	16	16	SAME AS ABOVE FOR 1/2" AND	Н		10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS 8-16d BOX (3 1/2" x 0.162") OR	12" O.C. FACE NAIL	<b>33</b> 1	1/2" STRUCTURAL CELLULOSIC FIB	ERBOARD SHEATH	11 1/2" GALANIZED ROOFING NAIL, 7/16" HEA	D 3" 6"
1/2 OR 5/8	CEILING d	PERPENDICULAR	24	12	16	5/8" GYPSUM BOARD AND GYPSUM PANEL PRODUCTS, RESPECTIVELY		DOUBLE TOP PLATE SPLICE FOR SDCs A-D2 WITH SEISMIC BRACED WALL LINE SPACING <25'	12-16d BOX (3 1/2" x 0.135"); OR 12-10d BOX (3" x 0.128"); OR 12-3" x 0.131 NAILS	PER JOIST TOE NAIL	<b>34</b> 2	25/32" STRUCTURAL CELLULOSIC F	IBERBOARD SHEA	1 1/4" LONG 1 3/4" GALANIZED ROOFING NAIL, 7/16" HEA <sup>IT</sup> DIAMETER, OR 1" CROWN STAPLE 16ga. 1 1/4" LONG	D 3" 6"
	CEILING	EITHER DIRECTION PERPENDICULAR	24 16	16 16	24	BASE PLY NAILED AS ABOVE FOR 1/2" GYPSUM BOARD AND	13	DOUBLE TOP PLATE SPLICE FOR SDCs D0, D1, D2, AND BRACED WALL LINE SPACING >25'	12-16d (3 1/2" x 0.135")	FACE NIAL ON EACH SIDE OF END JOINT (MIN. 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	<b>35</b> 1	1/2" GYPSUM SHEATHING		1 1/2" GALANIZED ROOFING NAIL, STAPLE GALVANIZED 1 1/2" LONG, 1 1/4" SCREWS, TYPE W OR S	7" 7"
TWO 3/8 LAYERS	WALL	EITHER DIRECTION	24	24	24	GYPSUM PANEL PRODUCTS; FACE PLY INSTALLED WITH ADHESIVE.	14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING ( NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162") 16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	16" O.C. FACE NAIL 12" O.C. FACE NAIL	<b>36</b> 5	5/8" GYPSUM SHEATHING		1 3/4" GALANIZED ROOFING NAIL, STAPLE GALVANIZED _1 5/8" LONG, 1 5/8" SCREWS, TYPE W OR S_	7" 7"
FOR SI: 1 incl				I SS THAN 21	I	OR MORE THAN 2 1/2 INCHES APART SHALL	15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING ( NOT AT BRACED WALL PANELS)	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	3" EA. 16" O.C. FACE NAIL 2" EA. 16" O.C. FACE NAIL			PANELS, COMBIN	ATION SUBFLOOR UNDER LAYMENT TO FRA 6d DEFORMED (2" x 0.120") NAIL; OR	
BE PERMITT b. SCREWS SH	TED TO BE USED WITH T	HE PAIR OF NAILS SPA E WITH SECTION R702.	CED 12 INCHES 3.5.1. SCREWS F	ON CENTER FOR ATTACI	R. HING GYPSUM	BOARD OR GYPSUM PANEL PRODUCTS TO		BLOCKING (NOT AT BRACED WALL PANELS)	4-8d BOX (2 1/2" x 0.113") OR 3-16d BOX (3 1/2" x 0.135"); OR	4" EA. 16" O.C. FACE NAIL		3/4" AND LESS 7/8" - 1"		8d COMMON (2 1/2" x 0.120") NAIL; OR 8d COMMON (2 1/2" x 0.131") NAIL 8d COMMON (2 1/2" x 0.131") NAIL; OR	6" 12" 6" 12"
c. WHERE COL	LD FORMED STEEL FRAM	ING IS USED WITH A C	LINCHING DESI	GN TO RECI	IEVE NAILS BY	TWO EDGES OF METAL, THE NAILS SHALL BE ESS AND SHALL HAVE RINGED SHANKS. ILS, THE NAILS SHALL HAVE BARBED SHANKS			4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS	TOE NAIL		1/8" - 1 1/4"		8d DEFORMED (2 1/2" x 0.120") NAIL 10d COMMON (3" x 0.148") NAIL; OR 8d DEFORMED (2 1/2" x 0.120") NAIL	6" 12"
OR BE 5D, 1 13 GAGE, 17	3 1/2 GAGE, 15/8 INCHES 7/8 INCHES LONG, 15/64-I	LONG, 15/64-INCH HEA	AD FOR 1/2-INCH CH GYPSUM BOA	I GYSPUM E ARD OR GYF	BOARD OR GYP PSUM PANEL P	SUM PANEL PRODUCT; AND 6D,	A	TOP OR BOTTOM PLATE TO STUD	3-16d BOX (3 1/2" x 0.135") OR 2-16d COMMON (3 1/2" x 0.162"); OR	END NAIL		inch = 25.4 mm, 1 FOOT = 304.8mm	, 1 MILE PER HOU		
WATER-BAS APPLICATIO	ED TEXTURED FINISH IS	TO BE APPLIED, OR W R-BASED TEXTURE MA	HERE IT WILL B	e require R hand or 3	D TO SUPPORT	TINSULATION ABOVE A CEILING. ON CEILING D, THE GYPSUM BOARD OR GYPSUM PANEL EXTURE MATERIAL, THE MINIMUM GYPSUM		EDECNIO	2-100 COMMON (3 1/2 × 0.162 ); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS		CONN (20d C	NECTIONS SHALL HAVE MINIMUM A	VERAGE BENDING	G YIELD STRENGTHS AS SHOWNI: 80 KSI FOR G YIELD STRENGTHS AS SHOWNI: 80 KSI FOR GER THAN 0.142 INCH BUT NOT LARGER THAN	SHANK DIAMETER OF 0.192 INCH
BOARD THIC		EASED FROM 3/8 INCH	TO 1/2 INCH FOR	R 16-INCH O	ON CENTER FRA	MING, AND FROM 1/2 INCH TO 5/8 INCH	17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" x 0.128") OR 2-16d COMMON (3 1/2" x 0.162"); OR 3-3" x 0.131" NAILS	FACE NAIL	b. STAP c. NAILS d. FOUR	LES ARE 16 GAGE WIRE AND HAVE S SHALL BE SPACED AT NOT MORE R-FOOT BY 8-FOOT OR 4-FOOT BY 9	THAN 6 INCHES C FOOT PANELS SH		S ARE 48 INCHES OR GREATER.
	TABLE F		WALL	SHE/	ATHING		18	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2 1/2" x 0.113") OR 2-8d COMMON (2 1/2" x 0.113"); OR 2-10d BOX (3" x 0.128"); OR	FACE NAIL	f. WHEF GABLE E NAILS FC	RE THE ULTIMATE DESIGN WIND SF END WALL FRAMING SHALL BE SPA OR ATTACHING PANEL ROOF SHEA	PEED IS 130 MPH ( CED 6 INCHES ON THING TO INTERN	SHALL BE BASED ON TABLE R602.3(2). OR LESS, NAILS FOR ATTACHING WOOD STRU I CENTER. WHERE THE U;TIMATE DESIGN WIN IEDIATE SUPPORTS SHALL BE SPACED 6 IMC ND 4 INCH ON CENTER TO GABLE END WALL	ND SPEED IS GREATER THAN 130 MPH, HES ON CENTER FOR MINIMUM 48-INCH
MINIMUN		RESIST V	мим мах		URES PANEL NA SPACING	PAN <mark>EL N</mark> AIL			2 STAPLES 1 3/4" 3-8d BOX (2 1/2" x 0.113") OR		g. GYPS CONF h. SPAC	SUM SHEATHING SHALL CONFORM FORM TO ASTM C 208. CING OF FASTENERS ON FLOOR SH	TO ASTM C 1396 A	AND SHA BE INSTALLED IN ACCORDANCE WIT	TH GA 253. FIBERBOARD SHEATHING SHALL ED BY FRAMING MEMBERS AND REQUIRED
SIZE		UCTURAL PA	NEL ST		EDGES (inches o.c.)	FIELD WIND EXPOSURE CATEGORY (inches o.c.)	19	1" x6" SHEATHING TO EACH BEARING	2-8d COMMON (2 1/2" x 0.113"); OR 2-10d BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG	FACE NAIL	SUPP THE F	PORTED BY FRAMING MEMBERS AN	ND REQUIRED BLO PROVIDED EXCEP	ING OF FASTENERS ON ROOF SHETHING PAN OCKING. BLOCKING OF ROOF OR FLOOR SHEA PT AS REQUIRED BY OTHER PROVISIONS OF 3.	ATHING PANEL EDGES PERPENDICULAR TO
6d COMMON (2.0" x 0.113")	1.5	24/0 3	/8 3	3/8	16	B         C         D           12         140         115         110			3-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.113"); OR		i. WHEF ON ONE	RE A RAFTER IS FASTENED TO AN A	ADJACENT PARAL	LEL CEILING JOIST IN ACCORDANCE WITH THEILING JOIST TO TOP PLATE IN ACCORDANCE	
8d COMMON (2.5" x 0.131")			16 7	/16 /16	16 24	12         170         140         135           12         140         115         110	20	1" x 8" WIDER SHEATHING TO EACH BEARING	3-10d BOX (3" x 0.128"); OR 3 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG	FACE NAIL					
a. PANEL STRENC	n = 25.4 mm, 1 MILE GTH AXIS PARALLEL OR IALL BE APPLIED WITH F	PERPENDICULAR TO S	UPPOR <mark>TS. TH</mark> RE			NG WITH STUDS SPACED MORE THAN 16 INCHES			WIDER THAN 1" x 8" 4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR				•	2) SINGLE TOP-PLAT	E
	ED ON WIND PRESSURES				JRFACES IN AC	CORDANCE WITH SECTION R301.2. LATERAL			4 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG					TOP - PLATE SPLICE CONNECTIO	
SPAN RATING.		D 16 O.C. <mark>OR 24</mark> O.C. S	HALL BE PERMI	ITED A <mark>S AN</mark>	ALTERNATE T	AN ALTERNATE TO PANELS WITH A 24/0 O PANELS WITH A 24/16 SPAN RATING. WALL-16 CENTER.						CTURE IN SDC D0, D1A AND D2, WITH CED WALL LINE SPACING GREATER THAN	CORNERS AN		T JOINTS IN A AIGHT WALL
	TABLE R60	)2.3(4) ALL	OWABL	E SP	ANS FO	DR						OR EQUAL TO 25 FEET		SIDE OF JOINT	SIDE OF JOINT
	PARTICI	LE BÓARD	WALL	SHEA							D0, D1 ANI	URE IN SDC A-C; AND IN SDC D D2 WITH BRACED WALL LINE CING LESS THAN 25 FEET	3" x 6" x 0.036" GALVANIZED STEEI PLATE OR	L (6) 8d BOX (2 1/2" x 0.113") NAILS (6) 8d BOX GALVANIZED S PLATE OR EQUIVALEN	TEEL (2 1/2" x 0.113") NAILS
THICKNESS (inches)		WHEN SIDING IS N	AILED TO STUD		. ,	G IS NAILED TO SHEATHING							EQUIVALENT 3" x 8" x 0.036" GALVANIZED STEE	(9) 8d BOX 3" x 16" x 0.0	36"
3/8	M-1 EXTERIOR GLUE	10				16							PLATE OR EQUIVALENT	EL (2 1/2" x 0.113") NAILS EQUIVALEN	R (18) 8d BOX (2 1/2" x 0.113")
	INGNOT EXPOSED TO TH					END JOINTS OF THE PANEL SHALL BE OFFSET SO					FOR SI: 1	inch = 25.4 mm, 1 FOOT = 304.8 mm	1		NAILS

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		700 0 5 841					] [		TABI F RA	602.3 (1) FASTENI	NG S	CHEDULE		
		702.3.5 MIN ATION OF					ІТЕМ	DESCRIPTION OF BUILDING ELEMENTS		SPACING AND LOCATION			NUMBER AND TYPE OF FASTENERS <sup>a,b,c</sup>	SPACING AND LOCATION
	G	YPSUM PA		RODU	CTS			BLOCKING BETWEEN CEILING JOIST OR RAFTERS TO TOP	4-8d BOX (2 1/2" x 0.113") OR	TOE NAIL		ELEMENTS	FLOOR	LUCATION
THICKNESS OF GYPSUM BOARD OR	APPLICATION	ORIENTATION OF GYPSUM BOARD OR	MAXIMUM SPACING OF	SPAC FAS	XIMUM CING OF TENERS	SIZE OF NAILS FOR APPLICATION		PLATE	3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131 NAILS		21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR	TOE NAIL
GYPSUM PANEL PRODUCTS (inches)	APPLICATION	GYPSUM PANEL PRODUCT TO FRAMING	FRAMING MEMBERS (inches O.C.)	,	SCREWS	TO WOOD FRAMING <sup>c</sup>	2	CEILING JOIST TO TOP PLATE	4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR	PER JOIST TOE NAIL	22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL C		4" O.C. TOE NAIL
(incries)			- /	HESIVE		13 GAGE, 1 1/4" LONG, 19/64"		CEILING JOIST NOT ATTACHED TO PARALLERL RAFTERS.	3-3" x 0.131 NAILS 4-10d BOX (2 1/2" x 0.113") OR				10d BOX (3" x 0.128"); OR 	6" O.C. TOE NAIL
3/8	CEILING d	PERPENDICULAR EITHER DIRECTION	16 16	7	12	HEAD; 0.098" DIAMETER, 1 1/4" LONG, ANNULAR-RINGED; OR 4d COOLER NAIL, 0.080" DIAMETER, 13/8" LONG,	3	CEILING JOIST NOT ATTACHED TO PARALLERE RAFTERS, LAPS OVER PARTITION [SEE SECTION R802.31, R802.3.2 AND TABLE R802.5.1 (9)]	3-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS	FACE NAIL	23	1" x 6" SUBFLOOR OR LESS TO EACH JOIST 2" SUBFLOOR TO JOIST OR GIRDER	2-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG 3-16d BOX (3" x 0.135") OR	FACE NAIL BLIND AND FACE NAIL
	CEILING	EITHER DIRECTION	16	7	12	7/32" HEAD. 13 GAGE, 13/8" LONG,	4	CEILING JOIST ATTACHE TO PARALLEL RAFTER (HEEL JOINT) [SEE SECTION R802.31 AND R802.3.2 AND TABLE R802.5.1 (9)]	TABLE R802.51 (9)	FACE NAIL	25	2" PLANLKS (PLANK & BEAM - FLOOR & ROOF)	2-16d COMMON (3 1/2" x 0.162") 3-16d BOX (3" x 0.135") OR 2-16d COMMON (3 1/2" x 0.162")	AT EACH BEARING FACE NAIL
4/0	CEILING d	PERPENDICULAR	24	7	12	19/64" HEAD; 0.098" DIAMETER, 1 1/4" LONG, ANNULAR-RINGED; OR 5d COOLER NAIL, 0.086"	5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" x 20ga. RIDGE STRAP TO RAFTER	4-10d BOX (3" x 0.128") OR 3-10d COMMON (3" x 0.148"); OR 4-3" x 0.131 NAILS	FACE NAIL EA. RAFTER	26	BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 1/2" x 0.162") OR 4-10d BOX (3" x 0.128"); OR 4-3 x 0.131" NAILS; OR 4-3 x 14ga. STAPLES, 7/16" CROWN	END NAIL
1/2	WALL	EITHER DIRECTION	24	8	12	DIAMETER, 15/8" LONG, 15/64" HEAD; OR GYPSUM BOARD NAIL, 0.086" DIAMETER, 15/8" LONG,	6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX (3 1/2" x 0.135") OR 3-10d COMMON NAILS (3 1/2" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS			20d COMMON (4" x 0.192")	NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED
	WALL	EITHER DIRECTION	16	8	16	9/32" HEAD. 13 GAGE, 15/8" LONG,			4-3" x 0.131 NAILS 4-16d BOX (3 1/2" x 0.135") OR		27	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAY	/ERS 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	CEILING	EITHER DIRECTION	16	7	12	19/64" HEAD; 0.098" DIAMETER, 13/8" LONG, ANNULAR-RINGED; OR 6d COOLER NAIL, 0.092" DIAMETER,	7	ROOF RAFTERS TO RIDGR, VALLET OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	3-10d COMMON NAILS (3 1/2" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR 	TOE NAIL			AND 2-20d COMMON (4" x 0.192"); OR 3-10d BOX (3" x 0.128"); OR	FACE NAIL AT ENDS AND AT EACH SPLICE
	CEILING	PERPENDICULAR	24	7	12	17/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIAMETER, 17/8" LONG, 19/64" HEAD.			3-16d BOX (3 1/2" x 0.135") OR 3-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL	28	LEDGER STRIP SUPPORTING JOISTS OR RAFTE	4-16d BOX (3 1/2" x 0.135") OR S 3-16d COMMON (3 1/2" x 0.135") OR 4-10d BOX (3" x 0.128"); OR	AT EACH JOIST OR RAFTER, FACE NAIL
5/8	TYPE X AT GARAGE BENEATH HABITABLE	PERPENDICULAR	24	6	6	17/8" LONG 6d COATED NAILS OR EQUIVALENT DRYWALL SCREWS. SCREWS SHALL COMPLY WITH					29	BRIDGING TO JOIST	4-3 x 0.131" NAILS 2-10d (3" x 0.128")	EACH END, TOE NAIL
	ROOMS	EITHER DIRECTION	24	0	12	SECTION R702.3.5.1 13 GAGE, 15/8" LONG, 19/64" HEAD; 0.098" DIAMETER,	8	STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162") 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS	24" O.C. FACE NAIL 16" O.C. FACE NAIL	- 	DESCRIPTION OF BUILDING	NUMBER AND TYPE	SPACING OF FASTENERS
			24	0	12	13/8" LONG, ANNULAR-RINGED; 6d COOLER NAIL, 0.092" DIAMETER, 17/8" LONG, 1/4" HEAD; OR	9	STUD TO STUD AND ABUTTING STUDS AR INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL				EDGES INTERMIDIATE (inches) SUPPORTS (inches) (inches)
	WALL	EITHER DIRECTION	16	8	16	GYPSUM BOARD NAIL, 0.0915" DIAMTER, 17/8" LONG, 19/64" HEAD.			16d COMMON (3 1/2" x 0.162") 16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL 16" O.C. EACH EDGE		WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF A EATHING TO FRAMING (SEE TABLE R602.3(3) FOR 1 I		
		APPLICATION		SIVE				BUILT-IP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16d BOX (3" x 0.135")	FACE NAIL 12" O.C. EACH EDGE FACE NAIL	30	3/8" - 1/2"	6d COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8d COMMON (2 1/2" x 0.131") NAIL (ROOF)	6" 12"
	CEILING d	PERPENDICULAR	16	16	16	SAME AS ABOVE FOR 3/8" GYPSUM BOARD AND GYPSUM BOARD	11	CONTINOUSE HEADER TO STUD	5-8d BOX (2 1/2" x 0.113") OR 4-8d COMMON (2 1/2" x 0.131"); OR	TOE NAIL	31	10/32" - 1"	8d COMMON NAIL (2 1/2" x 0.131")	6" 12"
3/8	WALL	EITHER DIRECTION	16	16	24	AND GYPSUM PANEL PRODUCTS.			4-10d BOX (3" x 0.128" 16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL	32	1 1/8" - 1 1/4"	10d COMMON NAIL (3" x 0.148") NAIL; OR 8d (2 1/2" x 0.131") NAIL (ROOF)	6" 12"
	CEILING	EITHER DIRECTION	16	16	16		12	TOP PLATE TO TOP PLATE	10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL	33	OT	HER WALL SHEATHING	D 2" 6"
1/2 OR 5/8	CEILING <sup>d</sup>	PERPENDICULAR	24	12	16	SAME AS ABOVE FOR 1/2" AND 5/8" GYPSUM BOARD AND GYPSUM PANEL PRODUCTS, RESPECTIVELY		DOUBLE TOP PLATE SPLICE FOR SDCs A-D2 WITH SEISMIC BRACED WALL LINE SPACING <25'	8-16d BOX (3 1/2" x 0.162") OR 12-16d BOX (3 1/2" x 0.135"); OR 12-10d BOX (3" x 0.128"); OR 12-3" x 0.131 NAILS	PER JOIST TOE NAIL	33	25/32" STRUCTURAL CELLULOSIC FIBERBOARD	1 1/4" LONG	D 3" 6"
	WALL	EITHER DIRECTION	24	16	24		13	DOUBLE TOP PLATE SPLICE FOR SDCs D0, D1, D2, AND BRACED WALL LINE SPACING >25'	12-16d (3 1/2" x 0.135")	FACE NIAL ON EACH SIDE OF END JOINT (MIN. 24" LAP SPLICE LENGTH EACH SIDE	35	1/2" GYPSUM SHEATHING	1 1/4" LONG 1 1/2" GALANIZED ROOFING NAIL, STAPLE GALVANIZED	7" 7"
TWO 3/8 LAYERS	CEILING	PERPENDICULAR	16	16 24	16	BASE PLY NAILED AS ABOVE FOR 1/2" GYPSUM BOARD AND GYPSUM PANEL PRODUCTS; FACE PLY INSTALLED WITH	14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR	16d COMMON (3 1/2" x 0.162")	OF END JOINT) 16" O.C. FACE NAIL	36	5/8" GYPSUM SHEATHING	1 1/2" LONG, 1 1/4" SCREWS, TYPE W OR S 1 3/4" GALANIZED ROOFING NAIL, STAPLE GALVANIZED	7" 7"
FOR SI: 1 inc	WALL	EITHER DIRECTION	24	24	24	ADHESIVE.		BLOCKING (NOT AT BRACED WALL PANELS)	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL		WOOD STRUCTURAL PANELS, CO	1 5/8" LONG, 1 5/8" SCREWS, TYPE W OR S_	
a. FOR APPLIC						OR MORE THAN 2 1/2 INCHES APART SHALL	15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	3" EA. 16" O.C. FACE NAIL 2" EA. 16" O.C. FACE NAIL 4" EA. 16" O.C. FACE NAIL	37	3/4" AND LESS	6d DEFORMED (2" x 0.120") NAIL; OR 8d COMMON (2 1/2" x 0.131") NAIL	6" 12"
b. SCREWS SH STRUCTUR	HALL BE IN ACCORDANC	E WITH SECTION R702. SHALL PENETRATE THE	3.5.1. SCREWS F WOOD STRICTU	OR ATTACI	HING GYPSUM E L FACING NOT L				4-8d BOX (2 1/2" x 0.113") OR 3-16d BOX (3 1/2" x 0.135"); OR	TOE NAIL	38	7/8" - 1"	8d COMMON (2 1/2 x 0.131 ) NAIL 8d COMMON (2 1/2" x 0.131") NAIL; OR 8d DEFORMED (2 1/2" x 0.120") NAIL	6" 12"
NOT LESS 1	THAN 5/8 INCH LONGER 1	HAN THE GYPSUM BO	ARD OR GYSUM	PANEL PRO	DUCT THICKNE	TWO EDGES OF METAL, THE NAILS SHALL BE ESS AND SHALL HAVE RINGED SHANKS. ILS, THE NAILS SHALL HAVE BARBED SHANKS			4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS		39	1 1/8" - 1 1/4"	10d COMMON (3" x 0.148") NAIL; OR 8d DEFORMED (2 1/2" x 0.120") NAIL	6" 12"
OR BE 5D, 1 13 GAGE, 1	13 1/2 GAGE, 15/8 INCHES 7/8 INCHES LONG, 15/64-	LONG, 15/64-INCH HE/	AD FOR 1/2-INCH CH GYPSUM BOA	GYSPUM E RD OR GYF	BOARD OR GYPS	SUM PANEL PRODUCT; AND 6D, RODUCT.	A	TOP OR BOTTOM PLATE TO STUD	3-16d BOX (3 1/2" x 0.135") OR			I: 1 inch = 25.4 mm, 1 FOOT = 304.8mm, 1 MILE PER	HOUR = 0.447 m/s; KSI = 6.895 Mpa.	
WATER-BAS APPLICATIO PRODUCT S	SED TEXTURED FINISH IS DNS TO RECIEVE A WATE SHALL BE APPLIED PERP	TO BE APPLIED, OR W R-BASED TEXTURE MA ENDICULAR TO FRAMII	(HERE IT WILL BE TERIAL, EITHER NG. WHERE APPI	E REQUIRE HAND OR LYING A WA	D TO SUPPORT SPRAY APPLIED ATER-BASED TE	T BE USE ON A CEILING WHERE A INSULATION ABOVE A CEILING. ON CEILING D, THE GYPSUM BOARD OR GYPSUM PANEL EXTURE MATERIAL, THE MINIMUM GYPSUM		FRESNO	2-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL	(2 (2	AILS ARE SMOOTH-COMMON, BOX OR DEFORMED ONNECTIONS SHALL HAVE MINIMUM AVERAGE BEN 0d COMMON NAIL), 90 KSI FOR SHANK DIAMETERS IAMETERS OF 0.142 INCH OR LESS.	NDING YIELD STRENGTHS AS SHOWNI: 80 KSI FOR LARGER THAN 0.142 INCH BUT NOT LARGER THAI	SHANK DIAMETER OF 0.192 INCH
	CKNESS SHALL BE INCR H ON CENTER FRAMING					MING, AND FROM 1/2 INCH TO 5/8 INCH E USED.	17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" x 0.128") OR 2-16d COMMON (3 1/2" x 0.162"); OR 3-3" x 0.131" NAILS	FACE NAIL	c. N. d. F(	TAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM AILS SHALL BE SPACED AT NOT MORE THAN 6 INCH DUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANE PACING OF FASTENERS NOT INCLUDED IN THIS TA	HES ON CENTER AT ALL SUPPORTS WHERE SPAN ILS SHALL BE APPLIED VERTICALLY.	S ARE 48 INCHES OR GREATER.
	TABLE F	R602.3(3) R RAL PANEI RESIST V	WALL	SHE/	ATHING		18	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2 1/2" x 0.113") OR 2-8d COMMON (2 1/2" x 0.113"); OR 2-10d BOX (3" x 0.128"); OR 2 STAPLES 1 3/4"	FACE NAIL	GABI NAIL DIST	HERE THE ULTIMATE DESIGN WIND SPEED IS 130 I LE END WALL FRAMING SHALL BE SPACED 6 INCHE S FOR ATTACHING PANEL ROOF SHEATHING TO IN ANCE FROM RIDGES, EAVES AND GABLE END WAL	S ON CENTER. WHERE THE U;TIMATE DESIGN WIN TERMEDIATE SUPPORTS SHALL BE SPACED 6 IMC LS; AND 4 INCH ON CENTER TO GABLE END WALL	ND SPEED IS GREATER THAN 130 MPH, HES ON CENTER FOR MINIMUM 48-INCH FRAMING.
MINIMU					PANEL NAI SPACING		19	1" x6" SHEATHING TO EACH BEARING	3-8d BOX (2 1/2" x 0.113") OR 2-8d COMMON (2 1/2" x 0.113"); OR	FACE NAIL	C h. SI BI	YPSUM SHEATHING SHALL CONFORM TO ASTM C 1 ONFORM TO ASTM C 208. PACING OF FASTENERS ON FLOOR SHEATHING PA LOCKING AND AT ALL FLOOR PERIMETERS ONLY. S	NEL EDGES APPLIES TO PANEL EDGES SUPPORT SPACING OF FASTENERS ON ROOF SHETHING PAN	ED BY FRAMING MEMBERS AND REQUIRE IEL EDGES APPLIES TO PANEL EDGES
SIZE		NEL SPAN THICK	(NESS SPA		EDGES inches o.c.)	FIELD WIND EXPOSURE CATEGORY (inches o.c.) B C D			2-00 COMMON (2 1/2 x 0.113 ), OR 2-10d BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG		TI SI	UPPORTED BY FRAMING MEMBERS AND REQUIRED HE FRAMING MEMBERS NEED NOT BE PROVIDED E UPPORTED BY FRAMING MEMBERS OR SOLID BLOO HERE A RAFTER IS FASTENED TO AN ADJACENT P	XCEPT AS REQUIRED BY OTHER PROVISIONS OF CKING.	THIS CODE. FLOOR PERIMETER SHALL B
6d COMMON ( <del>2.0" x 0.113")</del> 8d COMMON	1.5		/8 3 /16	/8 /16	16 16	12     140     115     110       12     170     140     135			3-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.113"); OR 3-10d BOX (3" x 0.128"); OR 3 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG			ONE SIDE OF THE RAFTER AND TOE NAILS FROM TH OPPOSITE SIDE OF THE RAFTER SHALL NOT BE RE	E CEILING JOIST TO TOP PLATE IN ACCORDANCE	
	h = 25.4 mm, 1 MILI	E PER H <mark>OUR = 0</mark> .4	7/ 47 m/ <mark>s</mark>	/16	24	12 140 115 110	20	1" x 8" WIDER SHEATHING TO EACH BEARING	WIDER THAN 1" x 8"	FACE NAIL			3 (2) SINGLE TOP-PLAT	E
ON CENTER SI	HALL BE APPLIED WITH F	ANEL STRENGTH AXIS	PERPENDICULA	AR TO SUPP	PORTS.	NG WITH STUDS SPACED MORE THAN 16 INCHES			4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG				TOP - PLATE SPLICE CONNECTIO	
BRACING REQ c. WOOD STRUC	UIREMENTS SHALL BE IN	ACCORDANCE WITH S	ECTION R602.10	). Shall be p	ERMITTED AS A	AN ALTERNATE TO PANELS WITH A 24/0					ST			T JOINTS IN A
	D SIDING 16 O.C. SHALL I	BE USED WITH STUDS S	SPACED NOT MC	ORE THAN 1	6 INCHES ON C						E	GREATER THAN OR EQUAL TO 25 FEET	E SIZE MINIMUM NAILS EACH SPLICE PLATE	SIZE MINIMUM NAILS EACH
	TABLE R60 PARTIC	)2.3(4) ALL LE BOARD									D0, D1	JCTURE IN SDC A-C; AND IN SDC 3" x 6" x 0.0 AND D2 WITH BRACED WALL LINE GALVANIZED	SIDE OF JOINT         OF LIGE F EAR           36"         (6) 8d BOX         3" x 12" x 0.0           STEEL         (2 1/2" x 0.113")         GALVANIZED S	SiDE OF JOINT           36"         (12) 8d BOX           TEEL         (2 1/2" x 0.113")
THICKNESS (inches)	GRADE	WHEN SIDING IS N			<b>G (inches)</b> WHEN SIDING	G IS NAILED TO SHEATHING						PACING LESS THAN 25 FEET PLATE O EQUIVALE	R NAILS PLATE OR NT EQUIVALEN	T
3/8	M-1 EXTERIOR GLUE	10	6				1					3" x 8" x 0.0 GALVANIZED PLATE O EQUIVALE	STEEL (2 1/2" x 0.113") GALVANIZED S R NAILS PLATE OF	STEEL R JT (18) 8d BOX
1/2 FOR SI: 1 incl	M-2 EXTERIOR GLUE	10	D			16						EQUIVALE		(2 1/2" x 0.113") NAILS
						END JOINTS OF THE PANEL SHALL BE OFFSET SO					FOR S	I: 1 inch = 25.4 mm, 1 FOOT = 304.8 mm.		

THICKNESS	GRADE	STUD S					
(inches)		WHEN SIDING IS NAILED TO STUDS					
3/8	M-1 EXTERIOR GLUE	16					
1/2	M-2 EXTERIOR GLUE	16					
FOR SI: 1 incl	n = 25.4 mm.						
THAT FOUR PA		E WEATHER. IF THE PANELS ARE APPLIE MEET. ALL PANEL EDGES MUST BE SUP ES.					

9

10

PLIED HORIZONTALLY, THE END JOINTS OF THE PANEL SHALL BE OFFSET SO SUPPORTED. LEAVE A 1/16-INCH GEP BETWEEN PANELS AND NAIL NOT

8 7

5

4

3

2

**OPTION** #1 PROJECT

1000 SQ. FT. MODEL (996 SQ.FT.) W/ ADAPTABLE FEATURES

# ACCESSORY DWELLING UNIT

PWP23-003

### DEPARTMENT OF PUBLIC WORKS AND PLANNING



### CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879





UPDATE

JULY 10, 2023

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# FASTENING SCHEDULE

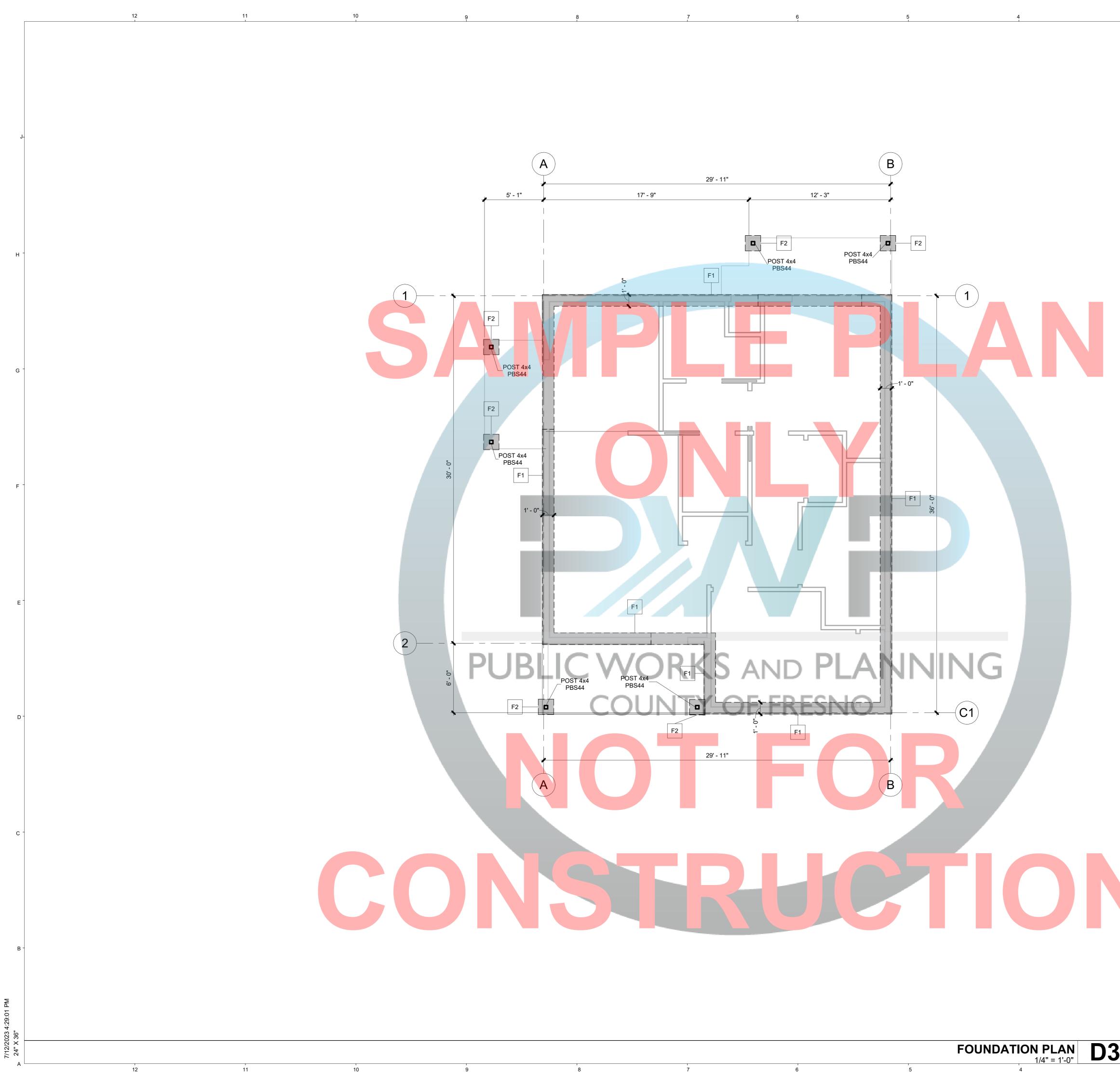
TITLE

©

(RESIDENTIAL) 12" = 1'-0" SCALE

	S-103
ISSUE DATE	JOB NUMBER
MARCH 7, 2023	2023_24
DRAWN BY	CHECKED BY
Author	Checker

2



	FOOTING SCHEDULE											
FOOTING	PAD SIZE	PAD SIZE LUMBER GRADE			н							
ID		# REQ'D	BAR #		inches							
F1	1'-0" WIDE CONT. FOOTING	2	4	SEE DETAIL	12							
F2	1' - 4" SQUARE	2	4	SEE DETAIL	12							

### FOUNDATION NOTES

- 1. THE CONTRACTOR MUST READ & UNDERSTAND ALL STANDARDS NOTES & DETAILS BEFORE BEGINNINGS CONSTRUCTION OR FABRICATION. ALL UNCLEAR AND / OR MISSING DETAILS OR INFO. SHALL BE BROUGHT TO THE ENGINEER'S
- ATTENTION BEFORE PROCEEDING N/ CONSTRUCTION. ALL CONCRETE PLACEMENT SHALL MEET WITH THE 2022 CALIFORNIA BUILDING CODE
- REQUIREMENTS. CONCRETE SHALL BE PROTECTED ADEQUATELY FROM INJURIOUS ACTION BY THE SUN, RAIN, WIND, FLOWING WATER, FROST AND MECHANICAL INURT, AND SHALL NOT BE ALLOWED TO DRY OUT FROM THE TIME IT IS PLACED UNTIL THE EXPIRATION OF THE MINIMUM CURING PERIOD. A FINE FOG SPRAY SHALL BE USED TO REDUCE PLASTIC SHRINKAGE CRACKS AFTER FINISHING OPERATIONS. IMMEDIATELY AFTER THE NET CONCRETE HAS BEEN BROUGHT TO A FLAT SURFACE AND THE SHINY SURFACE HAS DISAPPEARED, ADDITIONAL MOISTURE SHALL BE APPLIED TO RESTORE SHINE, USING AN ATOMIZING TYPE FOG SPRATER. FREQUENT LIGHT APPLICATION OF MOISTURE SHALL BE PROVIDED AS REQUIRED BY NEITHER CONDITIONS. SLOPE ALL LANDINGS AND WALKWAYS AWAY FROM THE BUILDING.
- FOUNDATION WALLS SHALL EXTEND AT LEAST 8" ABOVE THE FINISHED GRADE ADJACENT TO 6 THE FOUNDATION AT ALL POINTS. FOR MASONRY OR CONCRETE CONSTRUCTION, THE MINIMUM FOUNDATION WALL WILL BE 6 INCHES.
- WOOD SOLE PLATES AT ALL EXTERIOR WALLS ON MONOLITHIC SLABS, WOOD SOLE PLATES OF BRACED WALL PANELS AT BUILDING INTERIORS ON MONOLITHIC SLABS AND ALL WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MINIMUM 1/2-INCH-DIAMETER ANCHOR BOLTS SPACED NOT GREATER THAN 6 FEET ON CENTER OR APPROVED ANCHORS OR ANCHOR STRAPS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2-INCH-DIAMETER ANCHOR BOLTS.
- BOLTS SHALL EXTEND NOT LESS THAN 7 INCHES INTO CONCRETE OR GROUTED CELLS OF CONCRETE MASONRY UNITS. THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE, A NUT AND WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT. THERE SHALL BE NOT FEWER THAN TWO BOLTS PER PLATE SECTION WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES OR LESS THAN SEVEN BOLT DIAMETERS FROM EACH END OF THE PLATE SECTION.
- INTERIOR BEARING WALL SOLE PLATES ON MONOLITHIC SLAB FOUNDATION THAT ARE NOT PART OF A BRACED WALL PANEL SHALL BE POSITIVELY ANCHORED WITH APPROVED FASTENERS. SILL PLATES AND SOLE PLATES SHALL BE PROTECTED AGAINST DECAY AND TERMITES WHERE REQUIRED BY SECTIONS R317 AND R318. ANCHOR BOLTS SHALL BE PERMITTED TO BE LOCATED WHILE CONCRETE IS STILL PLASTIC AND BEFORE IT HAS SET. WHERE ANCHOR BOLTS RESIST PLACEMENT OR THE CONSOLIDATION OF CONCRETE AROUND ANCHOR BOLTS IS IMPEDED, THE CONCRETE SHALL BE VIBRATED TO ENSURE FULL CONTACT BETWEEN THE ANCHOR BOLTS AND CONCRETE.
- 10. ALL DISTURBED OR FILL SOIL UNDERLING CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 40 % RELATIVE PER ASTM STANDARD D-155T, INCLUDING RETAINING WALL BACKFILL. 11. \*\*\*CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND BRING ANY OMISSIONS OR
- DISCREPANCIES TO THE ATTENTION OF THE ENGINEER.\*
- 12. HOLDDOWN HARDWARE MUST BE SECURED IN FACE PRIOR TO FOUNDATION INSPECTION 13. FINISH GRADE FOR THE FIRST 1 FOOT FROM THE FOUNDATION SHALL SLOPE MINIMUM OF 5% ON ALL SIDES. THIS INCLUDES ANY IMPERVIOUS SURFACES.
- 14. WOOD FRAMING MEMBERS THAT REST ON EXTERIOR FOUNDATION WALL AND ARE LESS THAN 8" FROM EXPOSED EARTH SHALL BE ON NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD. 15. PONDER DRIVEN FASTENERS SHALL NOT BE USED IN STEM WALLS LESS THAN 5 1/2" WIDE OR
- GREATER THAN 5 1/2" HIGH 16. THE FASTENERS AND CONNECTORS IN DIRECT CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE HOT DIPPED ZING-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER

### **GENERAL NOTES**

R401.4.1.1 GENERAL AND WHERE REQUIRED FOR APPLICATIONS LISTED IN SECTION 1.8.2.1.1 REGULATED BY THE DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT FOUNDATIONS AND SOILS INVESTIGATIONS SHALL BE CONDUCTED IN CONFORMANCE WITH HEALTH AND SAFETY CODE SECTIONS 17953 THROUGH 17957 AS SUMMARIZED BELOW.

### R401.4.1.1.1 PRELIMINARY SOIL REPORT

EACH CITY, COUNTY, OR CITY AND COUNTY SHALL ENACT AN ORDINANCE WHICH REQUIRES A PRELIMINARY SOIL REPORT, PREPARED BY A CIVIL ENGINEER WHO IS REGISTERED BY THE STATE. THE REPORT SHALL BE BASED UPON ADEQUATE TEST BORINGS OR EXCAVATIONS, OF EVERY SUBDIVISION, WHERE A TENTATIVE AND FINAL MAP IS REQUIRED PURSUANT TO SECTION 66426 OF THE GOVERNMENT CODE.

THE PRELIMINARY SOIL REPORT MAY BE WAIVED IF THE BUILDING DEPARTMENT OF THE CITY, COUNTY OR CITY AND COUNTY, OR OTHER ENFORCEMENT AGENCY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE PROVISIONS OF SECTION R401.4.1.1, SHALL DETERMINE THAT, DUE TO THE KNOWLEDGE SUCH DEPARTMENT HAS AS TO THE SOIL QUALITIES OF THE SOIL OF THE SUBDIVISION OR LOT, NO PRELIMINARY ANALYSIS IS NECESSARY.

R401.4.1.1.2 SOIL INVESTIGATION BY LOT, NECESSITY, PREPARATION AND RECOMMENDATIONS IF THE PRELIMINARY SOIL REPORT INDICATES THE PRESENCE OF CRITICALLY EXPANSIVE SOILS OR OTHER SOIL PROBLEMS WHICH, IF NOT CORRECTED, WOULD LEAD TO STRUCTURAL DEFECTS, SUCH ORDINANCE SHALL REQUIRE A SOIL INVESTIGATION OF EACH LOT IN THE SUBDIVISION. THE SOIL INVESTIGATION SHALL BE PREPARED BY A CIVIL ENGINEER WHO IS REGISTERED IN THIS STATE. IT SHALL RECOMMEND CORRECTIVE ACTION WHICH IS LIKELY TO PREVENT STRUCTURAL DAMAGE TO EACH DWELLING PROPOSED TO BE CONSTRUCTED ON THE EXPANSIVE SOIL.

### R401.4.1.1.3 APPROVAL, BUILDING PERMIT CONDITIONS, APPEAL

2

THE BUILDING DEPARTMENT OF EACH CITY, COUNTY OR CITY AND COUNTY, OR OTHER ENFORCEMENT AGENCY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE PROVISIONS OF THIS CODE, SHALL APPROVE THE SOIL INVESTIGATION IF IT DETERMINES THAT THE RECOMMENDED ACTION IS LIKELY TO PREVENT STRUCTURAL DAMAGE TO EACH DWELLING TO BE CONSTRUCTED. AS A CONDITION TO THE BUILDING PERMIT, THE ORDINANCE SHALL REQUIRE THAT THE APPROVED RECOMMENDED ACTION BE INCORPORATED IN THE CONSTRUCTION OF EACH DWELLING. APPEAL FROM SUCH DETERMINATION SHALL BE TO THE LOCAL APPEALS BOARD.

### R401.4.1.1.4 LIABILITY

A CITY, COUNTY, OR CITY AND COUNTY OR OTHER ENFORCEMENT AGENCY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE PROVISIONS OF SECTION R401.4.1.1, IS NOT LIABLE FOR ANY INJURY WHICH ARISES OUT OF ANY ACT OR OMISSION OF THE CITY, COUNTY OR CITY AND COUNTY, OR OTHER ENFORCEMENT AGENCY, OR A PUBLIC EMPLOYEE OR ANY OTHER PERSON UNDER SECTION R401.4.1.1.1, R401.4.1.1.2 OR R401.4.1.1.3.

### R401.4.1.1.5 ALTERNATE PROCEDURES

THE GOVERNING BODY OF ANY CITY, COUNTY, OR CITY AND COUNTY MAY ENACT AN ORDINANCE PRESCRIBING AN ALTERNATE PROCEDURE WHICH IS EQUAL TO OR MORE RESTRICTIVE THAN THE PROCEDURES SPECIFIED IN SECTIONS R401.4.1.1.1, R401.4.1.1.2 AND R401.1.1.3.

### R401.4.2 COMPRESSIBLE OR SHIFTING SOIL

INSTEAD OF A COMPLETE GEOTECHNICAL EVALUATION, WHERE TOP OR SUBSOILS ARE COMPRESSIBLE OR SHIFTING, THEY SHALL BE REMOVED TO A DEPTH AND WIDTH SUFFICIENT TO ENSURE STABLE MOISTURE CONTENT IN EACH ACTIVE ZONE AND SHALL NOT BE USED AS FILL OR STABILIZED WITHIN EACH ACTIVE ZONE BY CHEMICAL, DEWATERING OR PRESATURATION.

# SQ.FT.) W/ ADAPTABLE FEATURES **OPTION** # PROJECT

1000 SQ. FT. MODEL (996

# ACCESSORY **DWELLING UNIT**

PWP23-003

### **DEPARTMENT OF PUBLIC** WORKS AND PLANNING



### **CAPITAL PROJECTS** DIVISION

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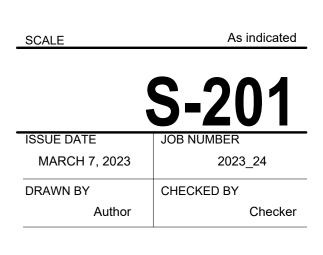
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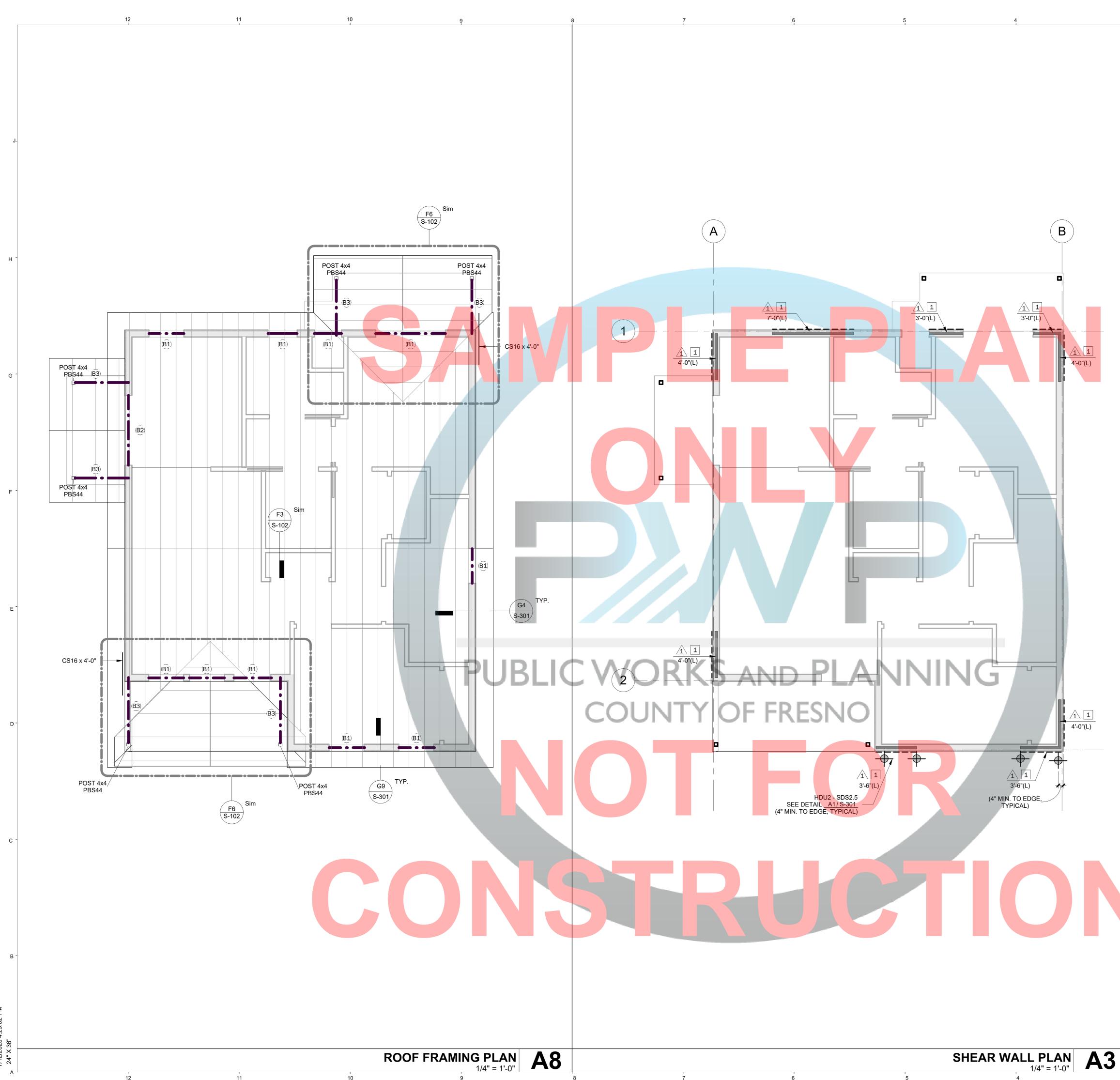
JULY 10, 2023

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# FOUNDATION PLAN





### LEGEND

ALL SHEAR WALL

 $\langle 1 \rangle$ 

# SHEAR WALL TYPE ANCHOR BOLT TYPE

4' - 0" (L)<del>-</del>

- SHEAR WALL LENGTH

SIMPSON HDU2 SDS 2.5

SHEA	R WALL SCHEI	CAPACITY			
TYPE	SHEATHING	Nailing EN & FN	Seismic	Wind	
$\wedge$	3/8" APA STRUCTURAL PANEL	8d @ 6" o.c.	260 plf	365 plf	
	24/0 CDX or OSB	8d @ 12" o.c.	200 pi		

### NOTE:

- ALL PANEL EDGES TO BE BULKED UNO 1
- 2. NAILS TO BE COMMON NAILS UNO \*\*PROVIDE 3X OR DBL STUDS AT ADJOINING EDGES
- 3.
- 4. \*\* STAGGER NAILS

	ANCHOR BOLT SCHEDULE							
TYPE		ALLOWAE	BLE LOADS (PLF)					
	ANCHOR BOLTS	2x Sill	3x Sill					
1	1/2" Ø x10" @ 6'-0" o.c.	173	205					

### NOTE:

- PROVIDE 3" SQ. X 0.299" WASHERS AT ANCHOR BOLTS 1.
- PROVIDE 2 AB MIN PER SHEAR WALL PANEL. 2.
- PROVIDE 7" MIN. EMBEDMENT IN CONCRETE. 3. SILL PLATES TO BE PRESSURE TREATED DF.
- 4. 5. FASTENERS IN P.T. WOOD SHALL BE HOT-DIPPED ZINC-COATED GAL-
- STEEL.

	ROOF BEAM SCHEDULE									
BEAM ID	SIZE	LUMBER GRADE								
B1	6 x 8	DF NO. 2								
B2	6 x 8	DF NO. 2								
B3	4 x 8 or 6 x 8	DF NO. 2								
B4	6 x 12	DF NO. 2								

### TRUSS NOTES

- STRUCTURAL CALCULATIONS SHALL BE PROVIDED BY TRUSS MANUFACTURER FOR ALL TRUSS TYPES AND SHALL INCLUDE SUPPORT FOR MECHANICAL UNIT, PLATFORM AND ACCESS CATWALK.
- TRUSS FABRICATOR SHALL PROVIDE A SCHEMATIC LAYOUT OF ALL TRUSSES SEQUENCE OF ERECTION AND INSTALLATION TO THE DESIGNER FOR REVIEW PRIOR TO PROCEEDING WITH 2. CONSTRUCTION.
- TRUSS-TO-TRUSS CONNECTIONS AND OTHER DETAILS RELATED TO TRUSSES SHALL BE 3. VERIFIED BY TRUSS FABRICATOR, INCLUDING BRACING, STRONG BACKS AND ERECTION DETAILS.
- ALL TRUSSES AND TRUSS DRAWINGS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES 4. AND DRAWINGS. THE TRUSS DRAWINGS AND STRUCTURAL CALCULATIONS SHALL BE SUPPLIED BY THE TRUSS 5. MANUFACTURER AND SUBMITTED FOR APPROVAL PRIOR TO BUILDING PERMITS BEING
- ISSUED. TRUSS MANUFACTURER SHALL VERIFY ALL DIMENSIONS AT JOB SITE AND BRING ANT 6. DISCREPANCIES WITH THESE PLANS TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO TRUSS FABRICATION.
- THE GENERAL CONTRACTOR SHALL NOT PERMIT DRILLING, CUTTING OR ANY OTHER DAMAGE 7. TO TRUSSES. MAINTAIN 1/4" CLEARANCE BETWEEN TOP PLATE OF NON BEARING WALLS AND BOTTOM 8.
- CHORDS OF TRUSSES, PROVIDE "SIMPSON" (OR EQ) ST TRUSS CLIP AT 48" O.C. (MAX) AT SUCH LOCATION. PROVIDE 2 X 4 CONTINUOUS BRACING AT 10"-O"O.C. MAX. TO BOTTOM CHORDS OR AS 9.
- REQUIRED BY TRUSS MANUFACTURER. THE CONTRACTOR SHALL INSTALL TEMPORARY HORIZONTAL AND CROSS BRACING TO HOLD 10. TRUSSES PLUMB AND IN SAFE CONDITION.
- INSTALL PERMANENT BRACING PRIOR TO LOADING TRUSSES 11. PROVIDE SIMPSON CONNECTORS AT EA, TRUSS END (TYPICAL). 12.
- 13. INSTALL X BRACE AT BOTH ENDS AND AT 20' O.C. PER PLANS.

2

APPROVED TRUSS DRAWINGS MUST BE ON JOB SITE FOR INSPECTION PURPOSES 14.

### TRUSSES ARE UNDER A DEFERRED SUBMITTAL.

- THE OWNER / BUILDER IS RESPONSIBLE FOR SUBMITTING ALL ITEMS LISTED UNDER THE DEFERRED SUBMITTAL AS REQUIRED BY THE RELEVANT AUTHORITIES. THIS INCLUDES ANY ADDITIONAL DOCUMENTS, PERMITS, OR INFORMATION THAT WERE NOT INCLUDED IN THE PRE-APPROVED PLANS.
- THE OWNER IS RESPONSIBLE IN SELECTING A TRUSS COMPANY TO SUPPLY THE TRUSSES. THE TRUSS COMPANY THAT WILL SUPPLY THE TRUSSES SHALL PROVIDE ADDITIONAL DOCUMENTS AND INFORMATION AS REQUIRED BY RELEVANT AUTHORITIES. ALL TRUSS MANUFACTURERS SHALL HAVE AN "IN PLANT" INSPECTION BY AN APPROVED AGENCY PER CRC R106.1. SUBMIT CERTIFICATION TO THE FRESNO COUNTY DEVELOPMENT SERVICES DIVISION.



PWP23-003

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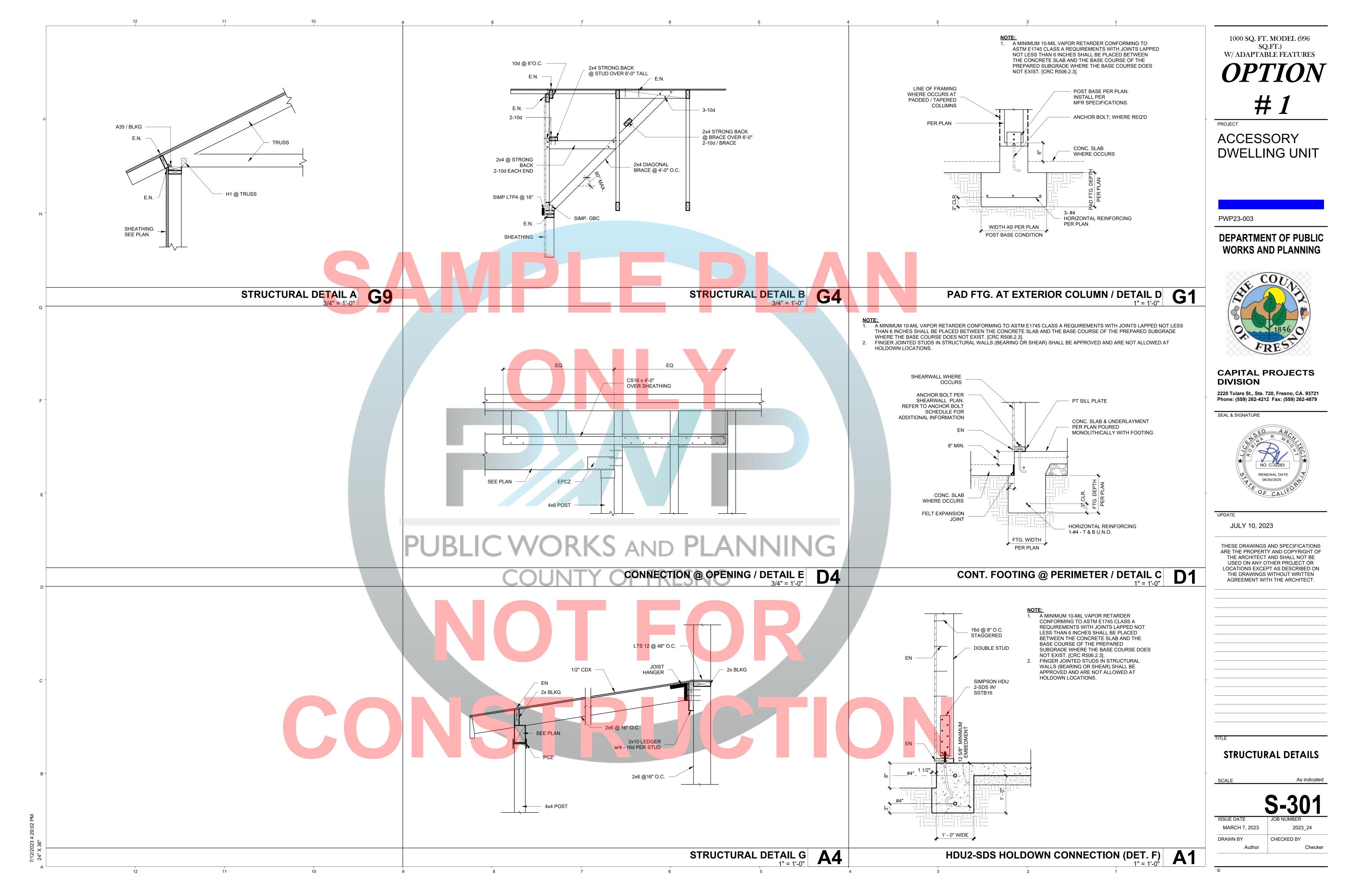
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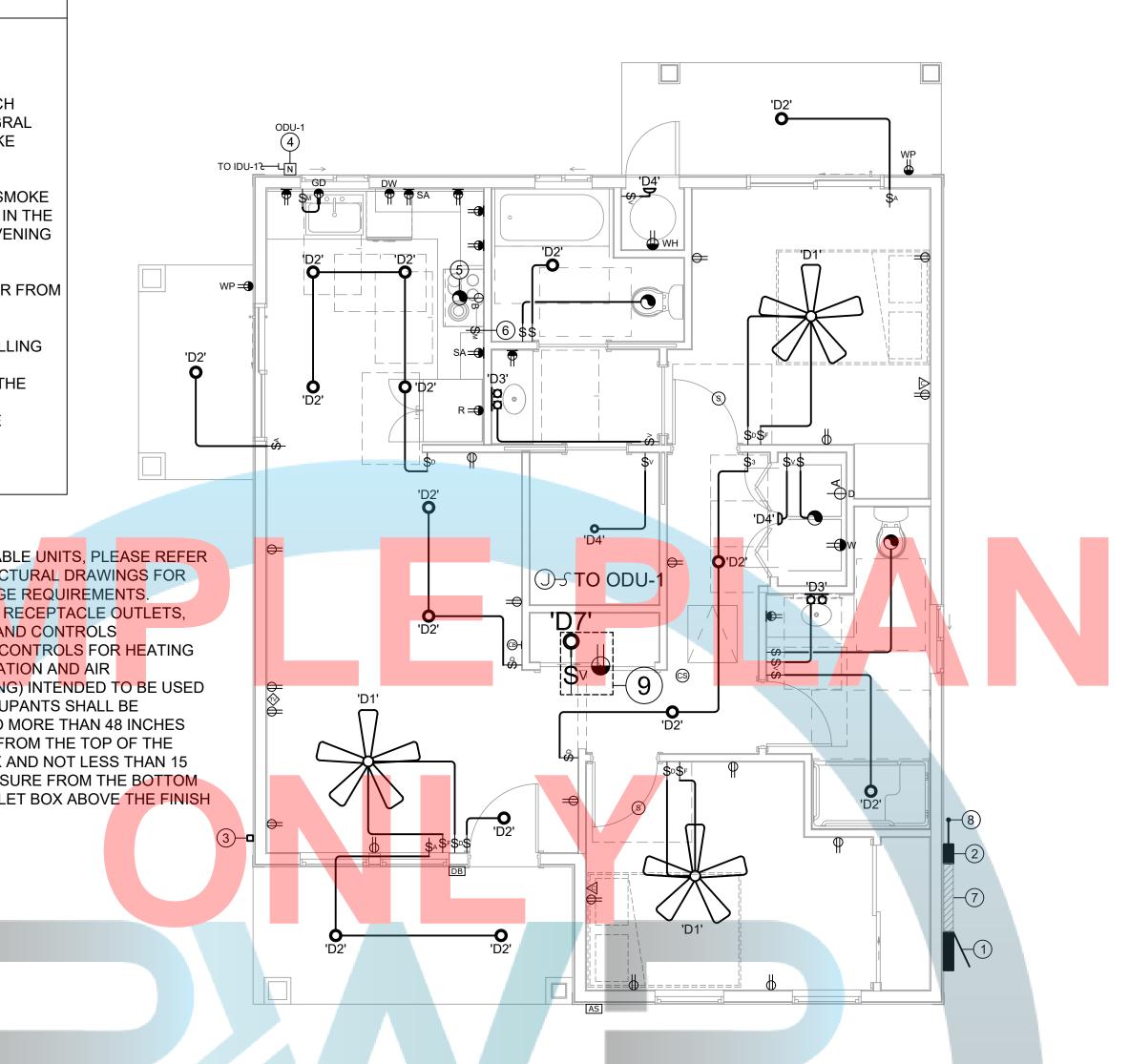
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### **ROOF FRAMING &** SHEAR WALL PLAN

SCALE	As indicated
	S-202
ISSUE DATE MARCH 7, 2023	JOB NUMBER 2023_24
DRAWN BY Author	CHECKED BY Checker



J-	SMOKE/CARBON MONOXIDE NOTES R314.2 SMOKE DETECTION SYSTEMS R314.3 LOCATION. SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: I. IN EACH SLEEPING ROOM. 2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS R314.4 POWER SOURCE. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTER' STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EN ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. R314.5 INTERCONNECTION. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDU. ALARM SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALAR INDIVIDUAL UNIT. THE ALARMS SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGF DOORS CLOSED. R315.1.1 POWER SUPPLY. FOR NEW CONSTRUCTION REQUIRED CARBON MONOXIDE ALARMS THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED W R315.1.2 INTERCONNECTION. WHERE MORE THAN ONE CARBON MONOXIDE ALARMS IN THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED W R315.1.2 INTERCONNECTION. WHERE MORE THAN ONE CARBON MONOXIDE ALARM IS REQUIRED UNIT'OR WITHIN A SLEEPING UNIT THE ALARMS SHALL BE INTERCONNECTED IN A MANNER THAT ACTIVATION OF ALARMS IN THE. INDIVIDUAL UNIT. R315.3 ALARM REQUIREMENTS. CARBON MONOXIDE ALARMS REQUIRED BY SECTION R315.1 A FOLLOWING LOCATIONS: 1. OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA. IN THE IMMEDIATE VICINITY	BUILDING WIRING PROVIDED THAT SUCH Y BACKUP. SMOKE ALARMS WITH INTEGRAL MERGENCY ELECTRICAL SYSTEM. SMOKE AL DWELLING OR SLEEPING UNIT, THE SMOKE RM WILL ACTIVATE ALL OF THE ALARMS IN THE ROUND NOISE LEVELS WITH ALL INTERVENING SHALL RECEIVE THEIR PRIMARY POWER FROM /ITH A BATTERY BACK-UP. RED TO BE INSTALLED WITHIN THE DWELLING F ONE ALARM SHALL ACTIVATE ALL OF THE AND R315.2 SHALL BE INSTALLED IN THE
	2, AT EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS.	
G <sup>-</sup>	NEW SERVICE PANEL	AING AND METAL PIPE. 10 ARCHITECTURAL DRAWINGS FOR REACH RANGE REQUIREMENTS. 2. ELECTRICAL RECEPTACLE OUTLETS, SWITCHES, AND CONTROLS (INCLUDING CONTROLS FOR HEATING AND VENTILATION AND AIR CONDITIONING) INTENDED TO BE USED BY THE OCCUPANTS SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15 INCHES MEASURE FROM THE BOTTOM
	5/8"X10' GROUND ROD	D FLOOR.
	UNIT FIXTURE SCHEDULE	
F		NOTES
	'D1'     AIRE DELUXE #FP6285B     J-BOX     20W LED     120	
	OO         'D3'         PROJECT SOURCE MOD# 42007         SURF.         60W LED         120         DA	, WET RATD,
		AMP RATD,
E	LIGHTING FIXTURE SCHEDU	JLE         N.T.S         1. INDOOR LUMINAIRES SHALL HAVE A COLOR RENDERING INDEX (CRI) OF AT LEAST 90.         2. ALL INSTALLED LUMINAIRES SHALL MEET THE REQUIREMENTS OF CALIFORNIA ENERGY CODE TABLE 150.0-A. SEE SECTION 150(K)1A FOR EXCEPTIONS.         3. SCREW-BASED LUMINAIRES SHALL CONTAIN LAMPS THAT COMPLY WITH REFERENCE JOINT APPENDIX JA8.         4. RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS. LUMINAIRES RECESSED INTO CEILINGS SHALL MEET ALL OF THE FOLLOWING REQUIREMENTS:         4.1. I. SHALL NOT CONTAIN SCREW BASE LAMP SOCKETS; AND         4.2. II. HAVE A LABEL THAT CERTIFIES THE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THAN 2.0 CFM AT 75 PASCALS WHEN TESTED IN ACCORDANCE WITH ASTM E283. AN EXHAUST FAN HOUSING WITH INTEGRAL LIGHT SHALL NOT BE REQUIRED TO BE
D	PANEL:         1QT-1         225 AMP BUS         MAIN:         200A MCB         LOCATION:         EXTERIOR           1000 SQ. FT. OPT 1         120/240V, 1 PH, 3 W         TRIP:         80% RATED         MOUNTING:         SURFACE	CERTIFIED AIRTIGHT; AND 4.3. III. BE SEALED WITH A GASKET OR CAULK BETWEEN THE LUMINAIRE HOUSING AND
36" B	Image: Note Note       SERVES       Load       A       Point       SERVES       Notes       Restarting         10       1	<ul> <li>SPACES SEALED WITH A GASKET OR CAULK, OR BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN AIR TIGHTNESS BETWEEN THE LUMINAIRE HOUSING AND CEILING; AND</li> <li>4.4. IV. MEET THE CLEARANCE AND INSTALLATION REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE SECTION 410.116 FOR RECESSED LUMINAIRES.</li> <li>5. BLANK ELECTRICAL BOXES. THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, LOW VOLTAGE WIRING OR FAN SPEED CONTROL.</li> <li>6. LIGHTING SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY TURNED ON AND OFF.</li> <li>6.1. EXCEPTION TO SECTION 150.0(K)2A: CEILING FANS MAY PROVIDE CONTROL OF INTEGRATED LIGHTING VIA A REMOTE CONTROL.</li> <li>7. NO CONTROLS SHALL BYPASS A DIMMER, OCCUPANT SENSOR OR VACANCY SENSOR FUNCTION WHERE THAT DIMMER OR SENSOR HAS BEEN INSTALLED TO COMPLY WITH SECTION 150.0(K).</li> <li>8. AUTOMATIC-OFF CONTROLS.</li> <li>8.1. I. IN BATHROOMS, GARAGES, LAUNDRY ROOMS, UTILITY ROOMS AND WALK-IN CLOSETS, AT LEAST ONE INSTALLED LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY.</li> <li>8.2. II. FOR LIGHTING INTERNAL TO DRAWERS AND CABINETRY WITH OPAQUE FRONTS OR DOORS, CONTROLS THAT TURN THE LIGHT OFF WHEN THE DRAWER OR DOOR IS CLOSED SHALL BE PROVIDED.</li> <li>9. VACANCY SENSOR CONTROLS SHALL USE A NEUTRAL CONDUCTOR FOR OPERATING CURRENT.</li> <li>10. DIMING CONTROLS. LIGHTING IN HABITABLE SPACES, INCLUDING BUT NOT LIMITED TO LIVING ROOMS, DINING ROOMS, KITCHENS AND BEDROOMS, SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED DIMINING CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY ADJUSTED UP AND DOWN.</li> <li>11. INDEPENDENT CONTROLS. INTEGRATED LIGHTING OF EXHAUST FANS SHALL BE CONTROLLED INDEPENDENT CONTROLS. INTEGRATED LIGHTING OF EXHAUST FANS SHALL BE CONTROLLED INDEPENDENT CONTROLS. INTEGRATED</li></ul>
24" X	PANEL SCHEDULE N.T.S	
А		<u> </u>



### PROPOSED FLOOR PLAN 1/4" = 1'-0"

A COLOR RENDERING INDEX (CRI) OF AT LEAST 90. 12. FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED MEET THE REQUIREMENTS OF CALIFORNIA ENERGY CODE TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL MEET THE )1A FOR EXCEPTIONS. REQUIREMENT IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III: . CONTAIN LAMPS THAT COMPLY WITH REFERENCE JOINT 12.1. I. CONTROLLED BY A MANUAL ON AND OFF CONTROL SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; AND II. CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC ES IN CEILINGS. LUMINAIRES RECESSED INTO CEILINGS 12.2. NG REQUIREMENTS: TIME SWITCH CONTROL; OR BASE LAMP SOCKETS; AND **III. CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL** 12.3. IES THE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS 13. CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE WHEN TESTED IN ACCORDANCE WITH ASTM E283. AN AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 INTEGRAL LIGHT SHALL NOT BE REQUIRED TO BE HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE FOR CAULK BETWEEN THE LUMINAIRE HOUSING AND TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS. EAK PATHS BETWEEN CONDITIONED AND UNCONDITIONED 14. ILLUMINATED ADDRESS SIGN SHALL NOT CONSUMER NO MORE THAN 5 WATTS OF POWER KET OR CAULK, OR BE INSTALLED PER MANUFACTURER'S 15. ENERGY STORAGE SYSTEMS (ESS) READY. AT LEAST ONE OF THE FOLLOWING SHALL BE IR TIGHTNESS BETWEEN THE LUMINAIRE HOUSING AND PROVIDED: 15.1. A. ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF INSTALLATION REQUIREMENTS OF CALIFORNIA 60 AMPS AND A MINIMUM OF FOUR ESS-SUPPLIED BRANCH CIRCUITS, OR B. A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) 0.116 FOR RECESSED LUMINAIRES. 15.2. IMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 THAT SUPPLIES THE BRANCH CIRCUITS IN SECTION 150.0(S)(2). ALL BRANCH CIRCUITS AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN CY SENSOR CONTROL, LOW VOLTAGE WIRING OR FAN ONE INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL BACKED-UP LOAD CIRCUITS." 16. A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF CESSIBLE WALL-MOUNTED CONTROLS THAT ALLOW THE D ON AND OFF. SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT K)2A: CEILING FANS MAY PROVIDE CONTROL OF LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE EMOTE CONTROL LOCATED NEAR THE PRIMARY EGRESS, AND AT LEAST ONE CIRCUIT SHALL SUPPLY A IMER, OCCUPANT SENSOR OR VACANCY SENSOR SLEEPING ROOM RECEPTACLE OUTLET. R SENSOR HAS BEEN INSTALLED TO COMPLY WITH 17. THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSS BAR RATING OF 225 AMPS. 18. SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION AUNDRY ROOMS, UTILITY ROOMS AND WALK-IN CLOSETS EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER INAIRE SHALL BE CONTROLLED BY AN OCCUPANCY OR AUTOMATIC-OFF FUNCTIONALITY. SOURCE. DRAWERS AND CABINETRY WITH OPAQUE FRONTS OR 19. EXHAUST FANS SHALL BE CONTROLLED INDEPENDENTLY. IN THE LIGHT OFF WHEN THE DRAWER OR DOOR IS CLOSED 20. ASTRONOMICAL TIME-SWITCH CONTROLS SHALL: 20.1. HAVE SUNRISE AND SUNSET PREDICTION ACCURACY WITHIN PLUS-OR-MINUS 15 MINUTES ALL USE A NEUTRAL CONDUCTOR FOR OPERATING AND TIMEKEEPING ACCURACY WITHIN 5 MINUTES PER YEAR; BE CAPABLE OF DISPLAYING DATE, CURRENT TIME, SUNRISE TIME, SUNSET TIME, AND 20.2. HABITABLE SPACES. INCLUDING BUT NOT LIMITED TO SWITCHING TIMES FOR EACH STEP DURING PROGRAMMING ICHENS AND BEDROOMS. SHALL HAVE READILY 20.3. BE CAPABLE OF AUTOMATICALLY ADJUSTING FOR DAYLIGHT SAVINGS TIME; AND MING CONTROLS THAT ALLOW THE LIGHTING TO BE 20.4. HAVE THE ABILITY TO INDEPENDENTLY OFFSET THE ON AND OFF FOR EACH CHANNEL BY AT LEAST 90 MINUTES BEFORE AND AFTER SUNRISE OR SUNSET.

### CALIFORNIA ENERGY CODE T24 NOTES N.T.S.

# ELECTRICAL PLAN KEYNOTES

- NEW 225ABUSS-120/240V-1PH-3W-N3R MAIN SERVICE PANEL WITH 200A MAIN CIRCUIT BREAKER. MAIN ELECTRICAL POWER PANEL.
   POSSIBLE LOCATION OF FUTURE SOLAR PANEL INVERTER.
- 3. POSSIBLE LOCATION OF FUTURE. EV CHARGING STATION. VERIFY EXACT LOCATION DURING INSTALLATION.
- 4. 240V-30A-2P-N3R DISCONNECT FOR CONDENSING UNIT.
- 5. ABOVE IN CABINET FOR HOOD EXHAUST.
- 6. SWITCH FOR HOOD FAN.
- 3 FT OF ALLOCATED SPACE RESERVED FOR FUTURE SYSTEM ISOLATION/TRANSFER EQUIPMENT. DEDICATED RACEWAY SHALL BE BEHIND CLEARANCE.
   INTERCONNECTION PATHWAY. REFER TO ARCHITECTURAL PLANS
- FOR SOLAR ZONE AREA.
  9. LIGHT FIXTURE AND RECEPTACLE IN ATTIC. SEE BUILDING SECTIONS

# ELECTRICAL LEGEND

- \$ SINGLE POLE SWITCH
- \$<sup>3</sup> 3 WAY SWITCH
- \$<sup>D</sup> DIMMER SWITCH
- \$<sup>F</sup> FAN SPEED SWITCH
- \$<sup>M</sup> MOTOR RATED SWITCH
- \$<sup>v</sup> VACANCY SWITCH
- \$<sup>▲</sup> ASTRONOMICAL SWITCH

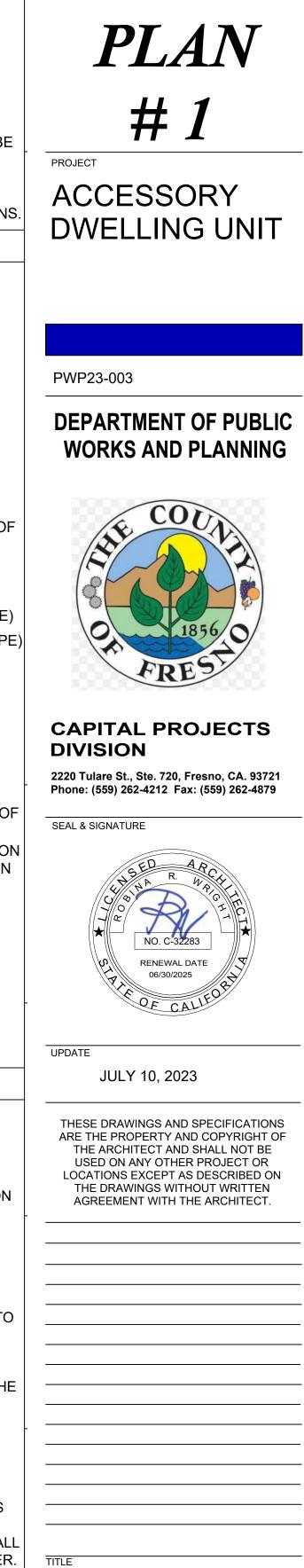
- DUPLEX ABOVE COUNTER +48" TOP OF RECEPTACLE BOX
- DUPLEX GROUND FAULT CIRCUIT INTERRUPTER +15" BOTTOM OF RECEPTACLE BOX
- GFCI DUPLEX ABOVE COUNTER +48" TOP OF RECEPTACLE BOX
- $\phi$  RECEPTACLE SPECIAL (RATING AS INDICATED)
- $\Phi_A$  RECEPTACLE 30A. 120/240V. NEMA 14-30R (CLOTHES DRYER TYPE)  $\Phi_B$  RECEPTACLE - 50A. 120/240V. NEMA 14-50R (DOMESTIC RANGE TYPE)
- $\Psi_B$  RECEPTACLE 50A. 120/2  $\triangle$  COMMUNICATION DATA
- $\odot$  TV DATA AND DUPLEX + 60" (FIELD VERIFY HEIGHT
- SMOKE ALARM 'BRK', 7010B W/ BATTERY BACK-UP, HARD WIRED, MOUNT WITHIN 6 INCHES OF HIGH POINT OF CEILING. (CSFM 7257-0087:140)
- CARBON MONOXIDE/SMOKE ALARM 'BRK', SC910B W/ BATTERY BACK-UP, HARD WIRED, MOUNT WITHIN 6 INCHES OF HIGH POINT OF CEILING. (CSFM 7256-0087:140)
- (HEARING IMPAIRED UNITS) SMOKE ALARM & STROBE COMBINATION 'BRK' 7010BSL, W/ BATTERY BACK-UP, HARD WIRED. MOUNT WITHIN 6 INCHES OF HIGH POINT OF CEILING. (CSFM 7257-0087:159)
- (HEARING IMPAIRED UNITS) CARBON MONOXIDE ALARM 'BRK' CO5120BN, W/ BATTERY BACK-UP, HARD WIRED. MOUNT WITHIN 6 INCHES OF HIGH POINT OF CEILING. (CSFM 7256-0087:159)
   OLUME DELL

**E2** 

- ILLUMINATED ADDRESS SIGN
- EXHAUST FAN SPECS PER MECHANICAL PLANS

# CALIFORNIA ELECTRICAL CODE NOTES

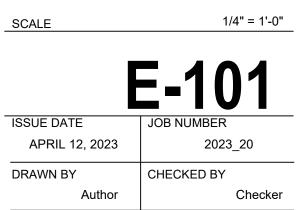
- COORDINATE WITH UTILITY COMPANY PROVIDER PRIOR TO COMMENCING WORK. THE AVAILABLE FAULT CURRENT WILL BE PROVIDED BY THE UTILITY PROVIDER.
   LIGHTING FIXTURES SPECIFIED CAN BE SUBSTITUTED WITH AN FOUNDATION FOR THE COMPANY PROVIDER.
- EQUIVALENT FIXTURE.
   UNLESS OTHERWISE NOTED; ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX NOR LESS THAN 15 INCHES (381 MM) MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX TO THE LEVEL OF THE EINISHED ELOOP OR WORKING DUATEORM
- FINISHED FLOOR OR WORKING PLATFORM.
  UNLESS OTHERWISE NOTED; CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, ALARMS OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE LOCATED NO MORE THAN 48 INCHES (1219 MM) MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES (381 MM) MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM.
- REFER TO EQUIPMENT MANUFACTURER SPECS FOR ADDITIONAL OVER-CURRENT PROTECTIONS OTHER THAN THE BRANCH CIRCUIT BREAKER.
- ALL WIRING IN DWELLINGS TO BE NONMETALLIC SHEATHED CABLES (ROMEX).
   A THREE WIRE DUUS CROUND BRANCH CIRCUIT IS DECLURED FOR ALL
- A THREE-WIRE PLUS GROUND BRANCH CIRCUIT IS REQUIRED FOR ALL 240V CIRCUITS SERVING COOKING EQUIPMENT AND CLOTHES DRYER.
   PROVIDE WEATHER PROOF BOXES FOR ALL EXTERIOR SWITCHES AND CONTROLS.
- 9. ALL 120V-1PH-15A AND 20A BRANCH CIRCUITS SUPPLYING RECEPTACLES IN KITCHENS, FAMILY, DINNING, LIVING, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS OR SIMILAR ROOMS SHALL HAVE A LISTED ARC-PROTECTION CIRCUIT BREAKER INSTALLED IN COMBINATION WITH OUTLET BRANCH CIRCUIT TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED AT THE FIRST BOX. SEE SECTION 210.12(A)(3) FOR WIRING METHODS.
- RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6 FT FROM A RECEPTACLE OUTLET.
   WATER HEATER SHALL USE A 120/240 VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS.



1000 SQ. FT.

W/ ADAPTABLE FEATURES

### PROPOSED FLOOR PLAN



	12	11	10	9	
CERTIFICATE OF COMPLIANCE - RE	IDENTIAL PERFORMANCE COMPLIANCE METI	нор	CF1R-PRF-01E	CERTIFICATE OF COMPLIANCE - RESIDEN	ITIAL PERFORMANCE CON
Project Name: Option # 1 ADU Calculation Description: Title 24 A	alysis	Calculation Date/Time: 2023-05-30T10:18:09+05:3		Project Name: Option # 1 ADU Calculation Description: Title 24 Analysi	s
GENERAL INFORMATION	roject Name Option # 1 ADU	Analysis_V9.1 Unit 24.ribd22x		ENERGY DESIGN RATINGS	1
02	Run Title Title 24 Analysis ect Location Option # 1				Source Energy (EDR1)
04 06	City Fresno County Zip code	05         Standards Version         202           07         Software Version         Energy		Standard Design	35.7
10	Climate Zone 13 uilding Type Single family	09         Front Orientation (deg/ Cardinal)         All of           11         Number of Dwelling Units         1	orientations	North Facing	31.5
14 Addition Cond. Fl		13         Number of Bedrooms         2           15         Number of Stories         1		East Facing	31.6
18 Total Cond. Fl	or Area (ft <sup>2</sup> ) <sup>n/a</sup>	17         Fenestration Average U-factor         0.3           19         Glazing Percentage (%)         18.2		South Facing West Facing	31.4 31.9
20 ADU Be	iroom Count n/a			1	
	th Computer Performance rates features that require field testing and/or ver	ification by a certified HERS rater under the supervision of a CEC	-approved HERS provider.	<sup>1</sup> Efficiency EDR includes improvements like <sup>2</sup> Total EDR includes efficiency and demand a <sup>3</sup> Building complies when source energy, effi	response measures such as ph
03 This building incorp	rates one or more Special Features shown below	FEDRE		Standard Design PV Capacity: 2.59 kW     Proposed PV Capacity Scaling: North (	
Registration Number: 423-P0100913 VOTICE: This document has been generated by and cannot guarantee, the accuracy or control CA Building Energy Efficiency Standar	s - 2022 Residential Compliance F	Registration Date/Time: 05/30/2023 05:54 HERS F using information uploaded by third parties not affiliated with or related to CHE Report Version: 2022.0.000 Report Schema Version: rev 20220901	Provider: CHEERS ERS. Therefore, CHEERS is not responsible for, t Generated: 2023-05-29 21:49:14	Registration Number: 423-P010091388A-00 NOTICE: This document has been generated by Califor and cannot guarantee, the accuracy or completeness o CA Building Energy Efficiency Standards - 20	0-000-0000000-0000 nia Home Energy Efficiency Rating I the information contained in this 22 Residential Compliance
CERTIFICATE OF COMPLIANCE - RE	IDENTIAL PERFORMANCE COMPLIANCE METI	нор	CF1R-PRF-01E	CERTIFICATE OF COMPLIANCE - RESIDEN	ITIAL PERFORMANCE CON
Project Name: Option # 1 ADU Calculation Description: Title 24 A	alysis	Calculation Date/Time: 2023-05-30T10:18:09+05:3		Project Name: Option # 1 ADU Calculation Description: Title 24 Analysi	5
ENERGY USE INTENSITY	Standard Design (kBtu/ft <sup>2</sup> - yr ) Propose	Analysis_V9.1 Unit 24.ribd22x	Margin Percentage	REQUIRED PV SYSTEMS	03
North Facing	41			DC System Size (kWdc) Exception	Module Type Arra
Gross EUI <sup>1</sup> Net EUI <sup>2</sup>	24.14	21.31         2.83           7.26         2.83	11.72 28.05		Standard (14-17%) F
East Facing				REQUIRED SPECIAL FEATURES The following are features that must be insta	illed as condition for meeting
Gross EUI <sup>1</sup> Net EUI <sup>2</sup>	24.14	21.63         2.51           7.58         2.51	24.88	Variable capacity heat pump complian     Northwest Energy Efficiency Alliance (	ace option (verification detail
South Facing				HERS FEATURE SUMMARY The following is a summary of the features th	
Gross EUI <sup>1</sup> Net EUI <sup>2</sup>	24.14	21.35 2.79	27.65	detail is provided in the building tables below Indoor air quality ventilation Kitchen range hood	
West Facing				<ul> <li>Verified Refrigerant Charge</li> <li>Airflow in habitable rooms (SC3.1.4.1.</li> <li>Verified heat pump rated heating capa</li> </ul>	acity
Gross EUI <sup>1</sup> Net EUI <sup>2</sup>	24.14	21.7 2.44	24.28	Wall-mounted thermostat in zones gr     Ductless indoor units located entirely	
Notes 1. Gross EUI is Energy Use Total (no				BUILDING - FEATURES INFORMATION 01	02
2. Net EUI is Energy Use Total (inclu	ling PV) / Total Building Area.	Second Second		Project Name Conditions	996 Numbe
CERTIFICATE OF COMPLIANCE - RE	IDENTIAL PERFORMANCE COMPLIANCE METI	Schema Version: rev 20220901	CF1R-PRF-01E	CERTIFICATE OF COMPLIANCE - RESIDEN	NTIAL PERFORMANCE CON
Project Name: Option # 1 ADU Calculation Description: Title 24 A	alysis	Calculation Date/Time: 2023-05-30T10:18:09+05:3 Input File Name: 4411_Prototypical ADU Designs for Analysis_V9.1 - Unit 24.ribd22x		Project Name: Option # 1 ADU Calculation Description: Title 24 Analysi	5
01 01	2 03 04	4 05 06 07	08	WATER HEATERS - NEEA HEAT PUMP 01 02	03
Construction Name Surfac	e Type Construction Type Fram	ning Total Cavity R-value R-value U-factor	Assembly Layers	Name # of Units	Tank Vol. (gal)
R-21 Wall + OS_ Exterio	Walls Wood Framed Wall 2x6 @ 16	in. O. C. R-21 None / None 0.068	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Exterior Finish: All Other Siding	DHW Heater 1 1	40
R-13 Wall Interio	Walls Wood Framed Wall 2x4 @ 16	5 in, O. C. R-13 None / None 0.092	Inside Finish: Gypsum Board Cavity / Frame: R-13 / 2x4	WATER HEATING - HERS VERIFICATION 01 02	03
Auto Dev Division			Other Side Finish: Gypsum Board Roofing: Light Roof (Asphalt Shingle)	Name Pipe Insula	
Attic RoofLiving Attic Area_ADU Attic	Roofs Wood Framed 2x4 @ 24	Lin. O. C. R-0 None / 0 0.644	Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	DHW Sys 1 - 1/1 Not Requ SPACE CONDITIONING SYSTEMS	ired Not Requir
R-38 Roof Attic Ceiling at	- 2x4 (0) 24	in. 0, C. R-38 None / None 0.025	Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board	01 02 Name System Type	03 Heating Unit Name
BUILDING ENVELOPE - HERS VERIFICA	the second se				Heat Pump System
01 Quality Insulation Installation (QII)		03 04 g Envelope Air Leakage CFM50	05 CFM50	HVAC - HEAT PUMPS	
Not Required WATER HEATING SYSTEMS	Not Required	N/A n/a	n/a	01 02	03 04
01 02	03 04	05 06 07	08 09 Water Heater	Name System Type	Number of Units Efficiency Type
Name System Type DHW Sys 1 Domestic Ho Nutries (DIM)	Standard DHW Heater 1	Solar Heating         Compact           System         Distribution           1         n/a	HERS Verification Name (#)	Heat Pump System 1 VCHP-ductless	1 HSPF
Water (DHW	Drive rieduel 1		Similar (1)	· · · · · · · · · · · · · · · · · · ·	
Registration Number: 423-P01009130 NOTICE: This document has been generated by and cannot guarantee, the accuracy or complet CA Building Energy Efficiency Standam	California Home Energy Efficiency Rating Services (CHEERS) uness of the information contained in this document. s - 2022 Residential Compliance	using information uploaded by third parties not affiliated with or related to CHE Report Version: 2022.0.000 Report	Provider: CHEERS ERS. Therefore, CHEERS is not responsible for, t Generated: 2023-05-29 21:49:14	Registration Number: 423-P010091388A-00 NOTICE: This document has been generated by Califor and cannot guarantee, the accuracy or completeness o CA Building Energy Efficiency Standards - 20	nia Home Energy Efficiency Rating of the information contained in this
<ul> <li>Andrew Market Market Strategy (1997)</li> </ul>		Schema Version: rev 20220901			Competente
	12		10	9	

8		
	8	3

7

6

5



atings	- Children			Compliance Margins	
DR cy)	Total <sup>2</sup> EDR (EDR2total)	So	(EDR1)	Efficiency <sup>1</sup> EDR (EDR2efficiency)	Total <sup>2</sup> EDR (EDR2total)
1	33.7				
roposed D	esign	1			
	32.2		4.2	2.5	1.5
C.	33	1	4.1	1.1	0.7
	32.6	12	4.3	1.8	1.1
	33.6	1	3.8	0.2	0.1
RESULT <sup>3</sup> :	PASS	4			
equipment stem and er than or		met load	hour limits are r	not exceeded	

roject Name: Option	# 1 ADU		Calculation Date/Time	Date/Time: 2023-05-30T10:18:09+05:30				
alculation Description				Prototypical ADU Designs for		(Page 3 of 12 nergy		
NERGY USE SUMMARY								
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)		
Space Heating	3.35	14.81	2.76	20.62	0.59	-5.81		
Space Cooling	2.39	51.08	2.06	48.18	0.33	2.9		
IAQ Ventilation	0.4	4.29	0.4	4.29	0	0		
Water Heating	2.41	23.99	1,49	15.51	0.92	8.48		
Self Utilization/Flexibility Credit				0		0		
North Facing Efficiency Compliance Total	8.55	94.17	6.71	88.6	1.84	5.57		
Space Heating	3.35	14.81	2.69	20	0.66	-5.19		
Space Cooling	2.39	51.08	2.19	51.98	0.2	-0.9		
IAQ Ventilation	0.4	4.29	0.4	4.29	0	0		
Water Heating	2.41	23.99	1.48	15.48	0.93	8.51		
Self Utilization/Flexibility Credit				o		0		
East Facing Efficiency Compliance Total	8.55	94.17	6.76	91.75	1.79	2.42		



Project Name: Option		RMANCE COMPLIANCE METH		: 2023-05-30T10:18:09+05:30		CF1R-PRF-018 (Page 4 of 12				
Calculation Description										
NERGY USE SUMMARY	in The 24 Analysis		Input File Name: 4411_Prototypical ADU Designs for Fresno County_E Analysis_V9.1 Unit 24.ribd22x							
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)				
Space Heating 3.35		14.81	2.66	19.85	0.69	-5.04				
Space Cooling	2.39	51.08	2.14	50.39	0.25	0.69				
IAQ Ventilation	0.4	4.29	0.4	4.29	0	0				
Water Heating	2.41	23.99	1.48	15.49	0.93	8.5				
Self Utilization/Flexibility Credit				0		0				
South Facing Efficiency Compliance Total	8.55	94.17	6.68	90.02	1.87	4.15				
Space Heating	3.35	14.81	2.77	20.85	0.58	-6.04				
Space Cooling	2.39	51.08	2.23	53.21	0.16	-2.13				
IAQ Ventilation	0.4	4.29	0.4	4.29	0	0				
Water Heating	2.41	23.99	1.49	15.5	0.92	8.49				
Self Utilization/Flexibility Credit		C L		0		D				
West Facing Efficiency Compliance Total	8.55	94.17	6.89	93.85	1.66	0.32				

Registration Number: 423-P010091388A-000-000-0000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) and cannot guarantee, the accuracy or completeness of the information contained in this document.	Registration Date/Time: 05/30/2023 05:54 using information uploaded by third parties not affiliated with or relat	HERS Provider: CHEERS and to CHEERS. Therefore, CHEERS is not responsible for,
	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-05-29 21:49:14

CERTIFICATE OF Project Name: C		<b>XE - RESIDENTIAL</b>	PERFORMAN	CE COMPLI/	ANCE ME	THOD	Calculat	ion Date	/Time: 2023	-05-30T10:18:	09+05:30		CF1R-PRF-01E (Page 8 of 12)
Calculation Des	ription: Title	e 24 Analysis									esigns for F	resno County_E	nergy
ENESTRATION /	GLAZING	÷					Analysis	_V9.1	Unit 24.ribd2	22x		-	
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window B- 3050_ 2	Window	Front Wall W_	Front	0	11	X	T	15	0.3	NFRC	0.23	NFRC	Bug Screen
Door 1- 3068_	Window	Front Wall W_	Front	0	Vi	1	1	20	0.3	NFRC	0.23	NFRC	Bug Screen
Window B- 3050_3	Window	Front Wall W_	Front	0	N.		1	15	0.3	NFRC	0.23	NFRC	Bug Screen
Window B- 3050_4	Window	Front Wall W_	Front	0	1		1	15	0.3	NFRC	0.23	NFRC	Bug Screen
Window A- 3026_	Window	Rear Wall E_	Back	180		-	1	7.5	0.3	NFRC	0.23	NFRC	Bug Screen
Window C- 2626_	Window	Rear Wall E_	Back	180	1	1. 1	1	6.25	0.3	NFRC	0.23	NFRC	Bug Screen
Door 3B- 6068_	Window	Rear Wall E_	Back	180		II.	1	40	0.3	NFRC	0.23	NFRC	Bug Screen
Door 2- 6068_	Window	Left Wall N_	Left	90		The second	1	40	0.3	NFRC	0.23	NFRC	Bug Screen
Window A- 3026_ 2	Window	Right Wall S_	Right	270	74		1	7.5	C 0.3	NFRC	0.23	NFRC	Bug Screen
LAB FLOORS			1	Service of the servic			and the	2				· · · · · · · · · · · · · · · · · · ·	
01		02	03		04			05		06		07	08
Name		Zone	Area (ft <sup>2</sup> )		Perimete	r (ft)		nsul. R-va d Depth		Insul. R-value nd Depth	Carpete	d Fraction	Heated
Slab-on-Grad	e Livir	ng Area_ADU	996		130.1	5		none		0	8	30%	No

Registration Number: 423-P010091388A-000-0000-00000000000 Registration Date/Time: 05/30/2023 05:54 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for and cannot guarantee, the accuracy or completeness of the information contained in this document. CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-05-29 21:49:14 Schema Version: rev 20220901

ATTICATE OF COMPLIANCE - RESIDENTIAL PERIORMAN	NCE COMPLIANCE METHOD	CF1R-PRF-01E
oject Name: Option # 1 ADU	Calculation Date/Time: 2023-05-30T10:18:09+05:30	(Page 12 of 12
Iculation Description: Title 24 Analysis	Input File Name: 4411_Prototypical ADU Designs for Fresno	County_Energy
DCUMENTATION AUTHOR'S DECLARATION STATEMENT	Analysis_V9.1_+ Unit 24.ribd22x	
I certify that this Certificate of Compliance documentation is a	ccurate and complete.	
cumentation Author Name: ranchi Shah	Documentation Author Signature: Viranchi Shah	
<sup>mpany:</sup> ww.gettitle24.com	Signature Date: 05/30/2023	
<sup>dress:</sup> 1730 Beach Blvd., #133	CEA/ HERS Certification Identification (If applicable):	
y/State/Zip: Mirada, CA 90638	Phone: 714-888-4736	
SPONSIBLE PERSON'S DECLARATION STATEMENT		
<ol> <li>I certify that the energy features and performance specification</li> <li>The building design features or system design features identified</li> </ol>	te of california: s Code to accept responsibility for the building design identified on this Certificate of Compliance. ions identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the C field on this Certificate of Compliance are consistent with the information provided on other applicable compliance cement agency for approval with this building permit application.	
sponsible Designer Name: bbina Wright	Responsible Designer Signature:	
	Date Signed:	
	05/30/2023	
mpany: obina Wright Architects and Associates dress: 125 N. Fresno Suite 107		

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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legistration Number: 423-P010091388A-000-000-0000000-0000 TICE: This document has been generated by California Home Energy Efficiency Rating Services (CHH i cannot quarantee, the accuracy or completeness of the information contained in this document.	Registration Date/Time: 05/30/2023 05:54 EERS) using information uploaded by third parties not aff	
A Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-05-29 21:49:14

W/ ADAPTABLE FEATURES **OPTION** #1 PROJECT ACCESSORY **DWELLING UNIT** 

1000 SQ. FT. MODEL (996 SQ.FT.)

### PWP23-003

### DEPARTMENT OF PUBLIC WORKS AND PLANNING



### **CAPITAL PROJECTS** DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



UPDATE

TITI F

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JULY 10, 2023

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

### TITLE 24 ENERGY COMPLIANCE

### SCALE ISSUE DATE JOB NUMBER MARCH 7, 2023 2023\_24 DRAWN BY CHECKED BY Author Checker

<form></form>		NTIAL MEAS	URES SU						RMS-1		mily residential buildings subject to the l
	Project Name Option # 1	ADU		Building Type						used. Review the	
	Project Address	S			ergy Climate Zor	e Total Cond. F	Floor Area A	Addition			
				CA Clin		990	5	n/a	1	§ 110.6(a)1:	
				Cavity		Special Fea	atures	St	atus	§ 110.6(a)5:	Labeling. Fenestration products a
								Ne	9W	§ 110.6(b):	Tables 110.6-A, 110.6-B, or JA4.5
	9							10.012		§ 110.7:	Air Leakage. All joints, penetratio caulked, gasketed, or weather stri
	the set of the			10000	12003	m = 130'		8.62		§ 110.8(a):	Insulation Certification by Manu Goods and Services (BHGS)
		-			115-51751					§ 110.8(g):	Insulation Requirements for Hea
										§ 110.8(i):	Roofing Products Solar Reflecta roofing material must meet the rec
										S 110 9/i)·	
	FENESTR	RATION	Total Area:	181 Glazin	g Percentage:	18.2% New/Al	tered Average U-F	-Factor:	0.30	3 110.0().	Affairs.
	and the second second	on Area(ft <sup>2</sup> )	U-Fac SH	IGC Over	hang Sid	2010 B-10	rior Shades	s St	tatus		average U-factor not exceeding U-0
			20222							§ 150.0(a):	doors must have permanently atta
	Rear (E)		0000000	275523							as specified in § 110.7, including t
	Rear (E)	40.0	0.300	0.23 none	none	0000		Ne	эw	§ 150.0(b):	Loose-fill Insulation. Loose fill in: Wall Insulation Minimum P. 13 in
<form></form>	Left (N) Right (S)							10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		§ 150.0(c):	framing or have a U-factor of 0.07
	rugin (0)	7.0	0.000	0.20 110110	none	N/A		140		8 150 0(d):	
											Slab Edge Insulation. Slab edge
										§ 150.0(f):	without facings, no greater than physical damage and UV light det
										§ 150.0(g)1:	Vapor Retarder. In climate zones vapor retarder. This requirement a
											§150.0(d).
VIAC       SYSTEMS         0.1       Main       ET       Cooling       Min. Et       Thermosita       Status         VIAC       SYSTEMS       Status       Normality       Status       Normality         VIAC       SYSTEMS       Status       Normality       Status       Normality         VIAC       SYSTEMS       Status       Normality       Status       Normality       Status       Normality       Status       Normality       Status       Normality       Status       Normality										§ 150.0(g)2:	all insulation in all exterior walls, v
Chi         Heating         Min. Eff         Counting         Min. Eff         Thermostati         Status           1         Junited under Alley         2.021/007         Status	HVAC SY	STEMS									a maximum U-factor of 0.45; or an
	Qty. Hea	ating	Min. Eff		1000	lin. Eff	Thermos	stat St	tatus		
	1 Elect	tric Heat Pump	8.50 HSPF	Split Heat P	ump 1	5.0 SEER	Setback	Ne	ew		Pilot Light. Continuously burning Closable Doors. Masonry or factor
MAC         Details         Details         Number           MAC         Details         Not											Combustion Intake. Masonry or
Control Prediction Predictin Prediction Prediction Prediction Prediction Prediction Prediction											Flue Damper. Masonry or factory-
	Location			<u> </u>		cation					ning, Water Heating, and Plumbing
<form></form>	WAC System	Ductless	s i wiui ran	Ductiess	nia		n/a	Ne	σw	the second	regulated appliances must be cert
NAME         Name         Galons         Mr. F. H         Distribution         Status           1         main         main <tdmain< td=""> <tdmain< td=""> <tdmain< td=""></tdmain<></tdmain<></tdmain<>										§ 110.2(a):	HVAC Efficiency. Equipment mus Controls for Heat Pumps with S
			Calle	ne Mi-	Eff Die	ribution		64	atuc	§ 110.2(b):	heaters must have controls that pr and in which the cut-on temperatu
											the cut-off temperature for compre-
Image: market with the state of the stat										§ 110.2(c):	setback thermostat. *
										§ 110.3(c)3:	
	EnergyPro 9.1	by EnergySoft User	Number: 3835			ID: I	4411	Pa	age 15 of 21		Isolation Valves. Instantaneous v
<image/>											need blood of outer mange on oos
<ul> <li>Strong in the strong was also during must be cardinal larger but carding hump the flagments. A lark hump the flagments in the strong but the strong</li></ul>										5/6/22	
Instrume         Experiment         Experimant         Experiman		2022 Sing	gle-Family I	Residential	Mandatory	Requireme	nts Summar	ıry			2022 Single-Fam
<ul> <li>(50) 0(1): to "complexit" Tails (50) Ac the controlled by vacuosy service provided tait they see net be continue to may fail to "complexity" the set be continue to may fail to "complexity" the set by continue to may fail to "complexity" the set by continue to may fail to "complexity" the set by continue to may fail to "complexity" the set by continue to may fail to "complexity" the set by continue to may fail to "complexity" the set by continue to may fail to any complexity the set by continue to may fail to any complexity the set by continue to complexity the set by continue to may fail to any complexity the set by continue to complexity the set by continue to may fail to any complexity the set by continue to complexity the set continue to the set by the set of the set o</li></ul>	150.0(k)1G:	Screw based luminal	ires. Screw based	l luminaires must ed Luminaires.	contain lamps that Lamps and other	at comply with Refe separable light sou	erence Joint Appen	endix JA8. * compliant with	n the JA8		2022 Single-Fam Energy Storage System (ESS) Re equipment with backed up capacity
Imministic Relation           Imministic Relation           Imministic Relation           Status         Interference           Interference         Relation           Interference         Relation           Interference         Relation           Interference         Relation           Interference         Relation           Interference         Relation           Interference         Relation         Relation           Interference         Relation         Relation <threlation< th="">         Relation         <threlatio< td=""><td></td><td>Screw based luminal Light Sources in End elevated temperature</td><td>ires. Screw based closed or Recess requirements, inc</td><td>I luminaires must ed Luminaires. luding marking re</td><td>contain lamps tha Lamps and other quirements, must</td><td>at comply with Refe separable light sou not be installed in</td><td>erence Joint Appen urces that are not o enclosed or reces</td><td>endix JA8. * compliant with essed luminaire</td><td>es.</td><td></td><td>Energy Storage System (ESS) R equipment with backed up capacity main service to a subpanel that su source collocated at a single panel</td></threlatio<></threlation<>		Screw based luminal Light Sources in End elevated temperature	ires. Screw based closed or Recess requirements, inc	I luminaires must ed Luminaires. luding marking re	contain lamps tha Lamps and other quirements, must	at comply with Refe separable light sou not be installed in	erence Joint Appen urces that are not o enclosed or reces	endix JA8. * compliant with essed luminaire	es.		Energy Storage System (ESS) R equipment with backed up capacity main service to a subpanel that su source collocated at a single panel
<ul> <li>Biologia Interfer Switches and Controls. All horizing plases of drimers used with LED light concers must comply with NeWAS Str. 7A.</li> <li>Biologia Interfer Switches and Controls. Lighting must have modily accessible with mouthed controls that all drives the fighting is be must by second in the source of the source of</li></ul>	150.0(k)1H:	Screw based luminal Light Sources in End elevated temperature Light Sources in Dra to comply with Table 1	ires. Screw based closed or Recess requirements, inc wers, Cabinets, 150.0-A or be cont	I luminaires must ed Luminaires. luding marking re and Linen Close trolled by vacancy	contain lamps that Lamps and other quirements, must its. Light sources ( sensors provided	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate	erence Joint Appen urces that are not o enclosed or reces s, cabinetry or liner ed to consume no r	endix JA8. * compliant with essed luminaire en closets are i more than 5 w	es. not required vatts of		Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circu 225 amps; sufficient space must be
190.0/ckt       Accessible Controls. Lighting must have neadly accessible wall-monited controls that allow the lighting to be manually furned       Isolation         190.0/ckt       Accessible Controls. Lighting must have neadly accessible wall-monited controls that allow the lighting to be manually furned       Isolation         190.0/ckt       Accessible Controls. Lighting controls must comply with the appicable negatiments of § 110.8       Every the Station of the dimension of the dimensis dimensind dimension of the dimensis dimension of th	150.0(k)1H:	Screw based luminat Light Sources in End elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more th	ires. Screw based closed or Recess requirements, inc wers, Cabinets, 150.0-A or be cont	I luminaires must ed Luminaires. luding marking re and Linen Close trolled by vacancy	contain lamps that Lamps and other quirements, must its. Light sources ( sensors provided	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate	erence Joint Appen urces that are not o enclosed or reces s, cabinetry or liner ed to consume no r	endix JA8. * compliant with essed luminaire en closets are i more than 5 w	es. not required vatts of	§ 150.0(s)	Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circu 225 amps; sufficient space must be panelboard, with raceways installed Heat Pump Space Heater Ready.
<ul> <li>198.0000 model</li> <li>198.00000 model</li> <li>198.0000 model</li> <li>198.0000 model</li> <li>198.0000 model</li> <li>198.00000 model</li> <li>198.00000 model</li> <li>198.00000 model</li> <li>198.00000 model</li> <li>198.000000 model</li> <li>198.000000 model</li> <li>198.000000000000000000000000000000000000</li></ul>	150.0(k)1H: 150.0(k)1I: 150.0(k)2A:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more to linen closet is closed. Interior Switches and	ires. Screw based closed or Recess requirements, inc wers, Cabinets, 150.0-A or be cont han 150 lumens, a d Controls. All for	I luminaires must and Luminaires, luding marking re and Linen Close trolled by vacancy and are equipped ward phase cut d	contain lamps that Lamps and other quirements, must ets. Light sources y sensors provided with controls that immers used with	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate t automatically turr	erence Joint Appen urces that are not of enclosed or reces s, cabinetry or liner ed to consume no r in the lighting off wh	endix JA8. * compliant with essed luminaire en closets are more than 5 w hen the drawe	es. not required vatts of er, cabinet or	§ 150.0(s)	Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circu 225 amps; sufficient space must be panelboard, with raceways installe Heat Pump Space Heater Ready, unobstructed 240V branch circuit w identified as "240V ready;" and a re
<ul> <li>150.0020</li> <li>150.00200</li></ul>	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more to linen closet is closed. Interior Switches and Interior Switches and	ires. Screw based closed or Recess requirements, inc wers, Cabinets, inc 150.0-A or be cont han 150 lumens, a d Controls. All for d Controls. Exhau	I luminaires must and Luminaires. Iuding marking re and Linen Close trolled by vacancy and are equipped ward phase cut d ust fans must be o	contain lamps that Lamps and other quirements, must ets. Light sources y sensors provided with controls that immers used with controlled separat	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate t automatically turr LED light sources ely from lighting sy	erence Joint Appen urces that are not of enclosed or reces s, cabinetry or liner ed to consume no r in the lighting off wh a must comply with vstems. *	endix JA8. * compliant with essed luminaire more than 5 w when the drawe h NEMA SSL 7	es. not required vatts of er, cabinet or 7A.	§ 150.0(s) § 150.0(t)	Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circu 225 amps; sufficient space must be panelboard, with raceways installe Heat Pump Space Heater Ready, unobstructed 240V branch circuit w
<ul> <li>Energy Management Control System Are ergy management control system (EMCS) may be uad brompy with dimining.</li> <li>(50,00)20: coccupancy and control energy management control system (EMCS) may be uad brompy with dimining.</li> <li>(50,00)20: coccupancy and control energy management control system (EMCS) may be uad brompy with dimining.</li> <li>(50,00)20: coccupancy and control energy management control system (EMCS) may be uad brompy with dimining.</li> <li>(50,00)20: coccupancy and control energy management control may be control and the cortex dimining.</li> <li>(50,00)20: coccupancy and control energy management control and wak in closest, at least one installed luminate material sy accessible with cortex dimining.</li> <li>(50,00)20: coccupancy and control energy management control and part data.</li> <li>(50,00)20: coccupancy controls.</li> <li>(50,00)30: does does a state on control with high of defined and control energy.</li> <li>(50,00)30: does does a state on control with ASS. 7A.</li> <li>(50,00)30: does does a state on control with ASS. 7A.</li> <li>(50,00)30: does does a state on control with ASS. 7A.</li> <li>(50,00)30: does does a state on control with ASS. 7A.</li> <li>(50,00)30: does does a state on control with ASS. 7A.</li> <li>(50,00)30: does does a state on control with the control with a state control with a state on control with the control with a state control with a state on control with the control with the requirements on control with the control with the control with a state control with the control with the requirements on control with the requirements on control with the requirements on control with the control with the requirements on control with t</li></ul>	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B: 150.0(k)2A:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more to linen closet is closed. Interior Switches and Accessible Controls on and off. *	ires. Screw based closed or Recess requirements, inc wers, Cabinets, 150.0-A or be cont han 150 lumens, a d Controls. All for d Controls. Exhau . Lighting must ha	I luminaires must ad Luminaires. luding marking re- and Linen Close trolled by vacancy and are equipped ward phase cut d ust fans must be over ve readily access	contain lamps that Lamps and other quirements, must ets. Light sources y sensors provided with controls that immers used with controlled separat ible wall-mounted	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate t automatically turr LED light sources ely from lighting sy controls that allow	erence Joint Appen inces that are not of enclosed or reces s, cabinetry or liner ad to consume nor in the lighting off wh a must comply with stems. *	endix JA8. * compliant with essed luminaire more than 5 w when the drawe h NEMA SSL 7	es. not required vatts of er, cabinet or 7A. ned	§ 150.0(s) § 150.0(t)	Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circi 225 amps; sufficient space must be panelboard, with raceways installe Heat Pump Space Heater Ready, unobstructed 240V branch circuit w identified as "240V ready;" and a re permanently marked as "For Future
Notifying the system of the	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B: 150.0(k)2A: 150.0(k)2A:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more ti linen closet is closed. Interior Switches and Accessible Controls. on and off. * Multiple Controls. Co to comply with § 150.0	ires. Screw based closed or Recess requirements, inc wers, Cabinets, 150.0-A or be cont han 150 lumens, a d Controls. All for d Controls. Exhau Lighting must ha pontrols must not b 0(k).	I luminaires must ied Luminaires, luding marking re- and Linen Close trolled by vacancy and are equipped ward phase cut d ust fans must be over ve readily access ypass a dimmer,	contain lamps that Lamps and other quirements, must ets. Light sources y sensors provided with controls that immers used with controlled separat ible wall-mounted occupant sensor,	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate t automatically turr LED light sources ely from lighting sy controls that allow or vacancy sensor	erence Joint Appen inces that are not of enclosed or reces s, cabinetry or liner ad to consume nor in the lighting off wh a must comply with a must comply with a start start of the ty the lighting to be r function if the dim	endix JA8. * compliant with essed luminaire more than 5 w when the drawe h NEMA SSL 7	es. not required vatts of er, cabinet or 7A. ned	§ 150.0(s) § 150.0(t) § 150.0(u)	Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circu 225 amps; sufficient space must be panelboard, with raceways installed Heat Pump Space Heater Ready, unobstructed 240V branch circuit w identified as "240V ready;" and a re permanently marked as "For Futurn Electric Cooktop Ready. Systems 240V branch circuit wiring installed "240V ready;" and a reserved main marked as "For Future 240V use."
Automatic Shufel Controls. In balthrooms, garages, laundry coms, utility coms and walk-in closest, at least one installed uniniarie 150,00/27. Interment. Upiking in halphabe spaces (e.g., Wing rooms, dirity equationatio-off Muchael Comses and cabinets with opagea forst or closes must have controls that turn the light off when the drawer or door is closed. 150,00/27. Interment. Upiking in halphabe spaces (e.g., Wing rooms, dirity equation the vertex of door is closed. 150,00/27. Interment. Upiking in halphabe spaces (e.g., Wing rooms, dirity equation the vertex of door is closed. 150,00/27. Interpretent controls. In the light off when the drawer or door is closed. 150,00/28. Interpretent controls. Interpretent controls of separately from celling-installed lighting. 150,00/28. Interpretent controls. Interpretent controls of separately from celling-installed lighting. 150,00/28. Interpretent controls. Interpretent controls of separately from celling-installed lighting. 150,00/28. Interpretent controls. Interpretent controls of separately from celling-installed lighting. 150,00/28. Interpretent controls. Interpretent controls of separately from celling-installed lighting. 150,00/28. Interpretent controls. Interpretent controls of separately from celling-installed lighting. 150,00/28. Interpretent controls. Interpretent controls of separately from celling-installed lighting. 150,00/28. Interpretent controls. Interpretent controls of separately from celling-installed controls and controls and phone sensor on automatic form second complete and approved by the information and when the automatic of second controls in second complete and approved by the information and when the automatic of second controls and controls and phone to be approved by the information and when the automatic of second controls and controls and phone in the second controls and co	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B: 150.0(k)2A: 150.0(k)2B: 150.0(k)2B: 150.0(k)2C:	Screw based luminai Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more ti linen closet is closed. Interior Switches and Accessible Controls on and off. * Multiple Controls, Co to comply with § 150.0 Mandatory Requirem Energy Management	ires. Screw based closed or Recess requirements, inc users, Cabinets, inc 150.0-A or be cont han 150 lumens, a d Controls. All for d Controls. All for d Controls. Exhau . Lighting must ha pontrols must not by 0(k). nents. Lighting con Control Systems	I luminaires must and Luminaires. Iuding marking re and Linen Close trolled by vacancy and are equipped ward phase cut d ust fans must be over ve readily access ypass a dimmer, ntrols must comp s. An energy man	contain lamps that Lamps and other quirements, must ets. Light sources y sensors provided with controls that immers used with controlled separat ible wall-mounted occupant sensor, ly with the application agement control s	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate t automatically turr LED light sources ely from lighting sy I controls that allow or vacancy sensor ble requirements of system (EMCS) ma	erence Joint Appen inces that are not of enclosed or recess s, cabinetry or liner ad to consume nor in the lighting off wh a must comply with a must comply with a struct comply with a struct of the dim of § 110.9.	endix JA8. * compliant with essed luminaire more than 5 w when the drawe h NEMA SSL 7 e manually turr mmer or senso	es. not required vatts of er, cabinet or 7A. ned or is installed	§ 150.0(s) § 150.0(t) § 150.0(u)	Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circu 225 amps; sufficient space must be panelboard, with raceways installer Heat Pump Space Heater Ready. unobstructed 240V branch circuit w identified as "240V ready;" and a re permanently marked as "For Futur Electric Cooktop Ready. Systems 240V branch circuit wiring installed "240V ready;" and a reserved main marked as "For Future 240V use." Electric Clothes Dryer Ready. Cl dedicated unobstructed 240V branch
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bounders in these gates must comply with recent SSL /A. 100.00/28: Independent controls, integrated signing or chaust times shall be controlled independently from the fans. Lighting under cabinels or the devels, lighting in display cabinets, and witched outlets must be controlled independently from the fans. Lighting under cabinels or the devels lighting on the same kit, must have a manual onoff which and where a photocal and motor sensor or automates to ar esidential building, or to other buildings on the same kit, must have a manual onoff which and where a photocal and motor sensor or automates to ar esidential and dors says. In the mergy management control system that provides the specification to functionality and meets at applicable requirements in any be used to meet these requirements. 150.00(3):	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B: 150.0(k)2A: 150.0(k)2B: 150.0(k)2B: 150.0(k)2C: 150.0(k)2D:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more ti- linen closet is closed. Interior Switches and Accessible Controls. on and off. * Multiple Controls. Co to comply with § 150.0 Mandatory Requirem Energy Management occupancy, and control in § 150.0(k)2A. Automatic Shutoff Co must be controlled by a	ires. Screw based closed or Recess requirements, inc wers, Cabinets, inc iso.0-A or be cont han 150 lumens, a d Controls. All for d Controls. All for d Controls. Exhau . Lighting must ha pontrols must not by O(k). hents. Lighting con Control Systems I requirements if it pontrols. In bathroo an occupancy or v	I luminaires must ied Luminaires, luding marking re- and Linen Close trolled by vacancy and are equipped ward phase cut d ust fans must be over ve readily access ypass a dimmer, ntrols must comp s. An energy man provides the fun- toms, garages, lau vacancy sensor p	contain lamps that Lamps and other quirements, must its. Light sources y sensors provided with controls that immers used with controlled separat ible wall-mounted occupant sensor, y with the applicat agement control s ctionality of the sp undry rooms, utility roviding automatic	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate t automatically turr LED light sources ely from lighting sy controls that allow or vacancy sensor ble requirements of system (EMCS) ma ecified control per y rooms and walk-ic-off functionality. I	erence Joint Appen pres that are not of enclosed or recess s, cabinetry or liner ed to consume nor in the lighting off wh a must comply with restriction if the dim of § 110.9. ay be used to comp § 110.9 and the pl in closets, at least of Lighting inside draw	endix JA8. * compliant with essed luminaire more than 5 w when the drawe h NEMA SSL 7 e manually turr mmer or senso nply with dimm physical contro t one installed l	es. not required vatts of er, cabinet or 7A. 7A. or is installed ing, ols specified luminaire	§ 150.0(s) § 150.0(t) § 150.0(u) § 150.0(v) § 150.0(v)	Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circu 225 amps; sufficient space must be panelboard, with raceways installed Heat Pump Space Heater Ready, unobstructed 240V branch circuit w identified as "240V ready;" and a re permanently marked as "For Futurn Electric Cooktop Ready. Systems 240V branch circuit wiring installed "240V ready;" and a reserved main marked as "For Future 240V use." Electric Clothes Dryer Ready. Cli dedicated unobstructed 240V branch the blank cover identified as "240V circuit breaker permanently marked w apply.
<ul> <li>Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or sheeks, lighting independently from eail-netable lighting.</li> <li>Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to orthol or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.</li> <li>Honovity with st of power.</li> <li>Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for norms/elements.</li> <li>Bingle-family Residences. Single-family residences located in subdivision with 10 or more single-family residences and where the applicable requirements is concreasing with the regime family residences is specified in Title 24 or in any requirements acopted by a local jurisdicion. The solar zone must be comprised of areas that have no dimension less than 5 or spins of a tentable subdivision may for the residences has been deemed complete and approved by the englements in easies of the title 24 or in any requirements adopted by a local jurisdicion. The solar zone must be comprised of areas that have no dimension less than 5 or any requirements adopted by a local jurisdicion. The solar zone that area an escale that Title 24, Part or or dimension less than 5 or any requirements adopted by a local jurisdicion. The solar zone that area no less than 260 square feet.</li> <li>Minitum Solar on construction bocated on sheep-sloped ords must have an adimity residences and relations and solar boc full area no less than 2000 square feet.</li> <li>Minitum Solar on construction bocated on sheep-sloped roofs must have an adimy residence al least twice for a grading may be used to many requirements adopted by a local jurisdicion. The solar zone that mak</li></ul>	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B: 150.0(k)2B: 150.0(k)2B: 150.0(k)2C: 150.0(k)2C: 150.0(k)2D:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more to linen closet is closed. Interior Switches and Accessible Controls. on and off. * Multiple Controls. Co to comply with § 150.0 Mandatory Requirem Energy Management occupancy, and control in § 150.0(k)2A. Automatic Shutoff Co must be controlled by a opaque fronts or doors Dimmers. Lighting in the	ires. 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Systems 240V branch circuit wiring installed "240V ready;" and a reserved main marked as "For Future 240V use." Electric Clothes Dryer Ready. Cli dedicated unobstructed 240V branch the blank cover identified as "240V circuit breaker permanently marked w apply.
Residential Outdoor Lighting, For single-family residential buildings, outdoor fighting permanently mounted to a residential building, or to orthol or an astronomical time clock. An energy management control system that provides the specified control functionality and meets al applicable requirements may be used to meet these requirements.         160.00;49:       Internally illuminated address signs. Internally illuminated address signs must either comply with \$140.8 or consume no more than 5         160.00;49:       Internally illuminated address signs. Internally illuminated address signs must either comply with \$140.8 or consume no more than 5         160.00;49:       Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the application trave internal garage in \$\$110.10,10.20,10.1,10.1,10.20,10.20,10.1,10.20	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B: 150.0(k)2B: 150.0(k)2B: 150.0(k)2C: 150.0(k)2D: 150.0(k)2D:	Screw based luminai Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more to linen closet is closed. Interior Switches and Accessible Controls. on and off. * Multiple Controls. Co to comply with § 150.0 Mandatory Requirem Energy Management occupancy, and control in § 150.0(k)2A. Automatic Shutoff Co must be controlled by a opaque fronts or doors Dimmers. Lighting in h mounted dimming cont	ires. Screw based closed or Recess requirements, inc wers, Cabinets, 150.0-A or be cont han 150 lumens, a d Controls. All for d Controls. All for d Controls. Exhau . Lighting must ha pontrols must not by 0(k). hents. Lighting con Control Systems I requirements if it pontrols. In bathroo an occupancy or v must have contro habitable spaces ( trols that allow the	I luminaires must ied Luminaires. Iuding marking re- and Linen Close trolled by vacancy and are equipped ward phase cut d ust fans must be over ve readily access ypass a dimmer, ntrols must comp s. An energy man provides the fun- toms, garages, lau vacancy sensor p ols that turn the lig e.g., living rooms a lighting to be man	contain lamps that Lamps and other quirements, must ets. Light sources y sensors provided with controls that immers used with controlled separat ible wall-mounted occupant sensor, ly with the applica agement control s ctionality of the sp undry rooms, utility roviding automatic ght off when the d , dining rooms, kil anually adjusted u	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate t automatically turr LED light sources ely from lighting sy controls that allow or vacancy sensor ble requirements of system (EMCS) ma ecified control per y rooms and walk-i- coff functionality. I rawer or door is cli- tchens, and bedroor	erence Joint Appen presences that are not of enclosed or recess is, cabinetry or linered to consume nor re- the lighting off which a must comply with restrems. * v the lighting to be r function if the dim of § 110.9. ay be used to compresent § 110.9 and the plant in closets, at least of Lighting inside draw osed. oms) must have re	endix JA8. * compliant with essed luminaire more than 5 w when the drawe h NEMA SSL 7 e manually turr mmer or senso nply with dimm physical contro t one installed l awers and cab	es. not required vatts of er, cabinet or 7A. ned or is installed or is installed luminaire inets with ble wall-	§ 150.0(s) § 150.0(t) § 150.0(u) § 150.0(v) § 150.0(v)	Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circi 225 amps; sufficient space must be panelboard, with raceways installed Heat Pump Space Heater Ready, unobstructed 240V branch circuit w identified as "240V ready;" and a re permanently marked as "For Future Electric Cooktop Ready. Systems 240V branch circuit wiring installed "240V ready;" and a reserved main marked as "For Future 240V use." Electric Clothes Dryer Ready. Cl dedicated unobstructed 240V branch the blank cover identified as "240V circuit breaker permanently marked
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<ul> <li>Hiermally Illuminated address signs. Internally Illuminated address signs must either comply with § 140.8 or consume no more than 5</li> <li>Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.</li> <li>ar Readiness:</li> <li>Single-family Residences. Single-family residences loaded in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)(-b).</li> <li>Minimum Solar Zone Maxa. The solar cone total area unimum total area as describe dolew. The solar zone must be normade of the solar zone function of areas starts that or on dimension less than 5 feet and are no less than 00 square feet each for buildings with nor areas less than 00 areas that have no dimension less than 5 feet and are no less than 00.00 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet.</li> <li>H10.10(b)/A. Mading. Any obtancion located on the roof or any steps and total maxy distructions, including but not limited to: vents, chinneys, architectural features, and roof routed equipment.</li> <li>H10.10(b)/A. Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, must be located at least twice the solar zone must be deary indicated on the construction documents.</li> <li>H10.10(b)/A. Structural Design Loads on Construction documents must indicate: a location reserved for inverting equipment and entity residences and central water-healing systems, a pathwa</li></ul>	150.0(k)1H: 150.0(k)2A: 150.0(k)2A: 150.0(k)2B: 150.0(k)2B: 150.0(k)2B: 150.0(k)2C: 150.0(k)2C: 150.0(k)2C: 150.0(k)2E: 150.0(k)2F: 150.0(k)2F:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more to linen closet is closed. Interior Switches and Accessible Controls. on and off. * Multiple Controls. Co to comply with § 150.0 Mandatory Requirem Energy Management occupancy, and control in § 150.0(k)2A. Automatic Shutoff Co must be controlled by a opaque fronts or doors Dimmers. Lighting in the mounted dimming cont sources in these space Independent controls shelves, lighting in disp Residential Outdoor	ires. Screw based closed or Recess requirements, inc iso.0-A or be cont han 150 lumens, a d Controls. All for d Controls. 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Systems 240V branch circuit wiring installed "240V ready;" and a reserved main marked as "For Future 240V use." Electric Clothes Dryer Ready. Cli dedicated unobstructed 240V branch the blank cover identified as "240V circuit breaker permanently marked w apply.
150.00(4):       watts of power.         150.00(4):       Residential Garages for Eight or More Vehicles. Lighting for residential parages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.         ar Readiness:       Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the applicable requirements of for the residences has been deemed complete and approved by the enforcement agency, which do not have a mal spacing requirements as specified in Tile 24, Part 91 to 10(b)(-4).         Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, moske ventilation, and spacing requirements as specified in Tile 24, Part 91 to 10(b)(-4).         Minimum Solar Zone Area. The solar zone total area must be completed in 10 to 20, paure feet or no less than 160.         101.01(b)(1A)       square feet each for buildings with roof areas greater than 10.000 square feet. To single-family residences, the solar zone must be located on the roof or overhang of the building but not limited to: vents, chinmeys, architectural features, and roof mounted equipment.         101.01(b)(2)       Shading. Any obtauction located on the roof contain any obstructions, including but not limited to: vents, chinmeys, architectural features, and roof dead back and roof live to admust y reserved for invertors and metering equipment and a solar zone must be located at least twice the horizontal projects above a solar zone, the structural design locads for roof dead back and roof live to admust y reserved for invertors and metering equipment and solar reador the beary indicat	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B: 150.0(k)2B: 150.0(k)2B: 150.0(k)2C: 150.0(k)2C: 150.0(k)2C: 150.0(k)2E: 150.0(k)2F: 150.0(k)2F:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more to linen closet is closed. Interior Switches and Accessible Controls. on and off. * Multiple Controls. Co to comply with § 150.0 Mandatory Requirent Energy Management occupancy, and control in § 150.0(k)2A. 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<ul> <li>150.0(§): applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.</li> <li><b>ar Readiness:</b></li> <li>Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovalic system installed, must comply with access, pathway, morek ventilation, and spacing requirements as does to be low. The solar zone nust have a minimum total area as described below. The solar zone must comply with access, pathway, morek ventilation, and spacing requirements as described below. The solar zone nust have a minimum total area and secribed below. The solar zone nust have a minimum total area and secribed below. The solar zone for the not dires system tene tent. 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For areas of the roof disgnated as a solar zone, the structural design locats for the solar zone to the point of interconnection with the elasticat as envice, and for single-family residences and exercise and the water-heading system.</li> <li>110.10(b):</li> <li>Main Electrical Service Panel.</li></ul>	150.0(k)1H: 150.0(k)2A: 150.0(k)2A: 150.0(k)2B: 150.0(k)2B: 150.0(k)2B: 150.0(k)2C: 150.0(k)2C: 150.0(k)2C: 150.0(k)2F: 150.0(k)2F: 150.0(k)2K: 150.0(k)3A:	Screw based luminai Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more ti linen closet is closed. Interior Switches and Accessible Controls on and off. * Multiple Controls. Co to comply with § 150.0 Mandatory Requirem Energy Management occupancy, and control in § 150.0(k)2A. Automatic Shutoff Co must be controlled by a opaque fronts or doors Dimmers. 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Single-Family Residences. Single-Family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, with do not have a photovoltaic system installed, must comply with the requirements of \$110.10(b)(4).         Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24. Part 9 or other parts of Title 24 or in any requirements as dopted by a local jurisdiction. The solar zone total area must be comprised of areases that have no dimension less than 15 test and are no less than 6 total area no less than 250 square feet.         110.10(b)[24       Azimuth, All sections of the solar zone located on steep-sloped roofs must have a nazimuth between 90-300° of fure north.         110.10(b)[34       Shading, The solar zone must not contain any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least hwice the horizontal distance of the height difference between the highest point of the costruction documents.         110.10(b)[34       Shading, Arry obstruction located on the roof or any other part of the building that projects above a solar zone, must be located at least hwice the horizontal distance of the height difference between the highest point of the costruction documents.         110.10(b)[35       Natine Arry obstruction located on the costruction documents.         110.10(b)[36       Natine Arry obstruction located on the costruction documents.         110.10(b)[70       Natine Beto	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B: 150.0(k)2B: 150.0(k)2B: 150.0(k)2C: 150.0(k)2C: 150.0(k)2C: 150.0(k)2E: 150.0(k)2F: 150.0(k)2F: 150.0(k)2K: 150.0(k)3A: 150.0(k)4:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more ti linen closet is closed. 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which do not have a photovoltaic system installed, must comply with the requirements of § 1101 (b)-(e). Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 et and are no tess than 80 square feet each for buildings with roof areas gest han or equal to 10,000 square feet. On o less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. The 110.10(b)24. Shading. The solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north. 110.10(b)34. Shading, The solar zone located on the roof or any other part of the building that projects above a solar zone, must be located on the neor or any other part of the building that projects above a solar zone, must be located on the neorements with requirements of a solar zone, must be located on the neorest up in the lead triang and it is any approximation located on the roof or any other part of the building that projects above a solar zone, the structural design locats for mounted equipment. 110.10(b)35. Structural Design Loads on Construction Documents. 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access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Parl 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 guare feet each for buildings with rof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. The solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. The solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. 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10.10(b)14:       feet and are no less than 80 square feet cach for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet.         110.10(b)12:       Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.         110.10(b)24:       Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chinneys, architectural features, and roof mounted equipment.         110.10(b)34:       Shading. The solar zone must not contain any obstruction for the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the costruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.         110.10(b)44:       Structural Design Locads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.         110.10(b)4:       Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a provided to the occupant.         110.10(c)1:       Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole forcinut breaker for a future solar electric installation. 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<ul> <li>110.10(b)14: square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet.</li> <li>110.10(b)2: Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.</li> <li>110.10(b)34: Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.</li> <li>110.10(b)34: Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone measured in the vertical plane.</li> <li>110.10(b)34: Structural Design Loads on Construction Documents. For areas of the roof feesingated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.</li> <li>110.10(c): pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating system.</li> <li>110.10(c): Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant. The main electrical service panel. 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<ul> <li>Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.</li> <li>Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.</li> <li>Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal distance of the height difference between the highest point of the obstruction and the horizontal distance of the height difference between the highest point of the obstruction and the horizontal distance of the least indicated on the construction documents.</li> <li>Structural Design Loads on Construction Documents. 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Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the notizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.*         110.10(b)3B:       bit building that projects above a solar zone, must be located at least twice the solar zone, measured in the vertical plane.*         110.10(b)4:       Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.         110.10(b)4:       Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating system, a pathway reserved for routing plumbing from the solar zone to the water-heating system.         110.10(c):       pathway reserved for construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.         110.10(e)1:       Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."         circuit and Energy Storage Ready:       the energy Storage Ready:	150.0(k)1H: 150.0(k)1I: 150.0(k)2A: 150.0(k)2B: 150.0(k)2A: 150.0(k)2A:	Screw based luminal Light Sources in Enc elevated temperature Light Sources in Dra to comply with Table 1 power, emit no more to linen closet is closed. Interior Switches and Accessible Controls. on and off. * Multiple Controls. Co to comply with § 150.0 Mandatory Requirem Energy Management occupancy, and control in § 150.0(k)2A. Automatic Shutoff Co must be controlled by a opaque fronts or doors Dimmers. Lighting in the mounted dimming cont sources in these space Independent controls shelves, lighting in disp Residential Outdoor other buildings on the control) or an astronom applicable requirement internally illuminated watts of power. 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110.10(b)4:       roof dead load and roof live load must be clearly indicated on the construction documents.         Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.         110.10(c):       Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.         110.10(e)1:       Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.         110.10(e)2:       Main Electrical Service Panel. 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Screw based losed or Recess requirements, inc wers, Cabinets, inc ison A or be control han 150 lumens, and d Controls. All for d Controls. All for d Controls. Exhat Lighting must han ontrols must not by 0(k). Tents. Lighting con Control Systems I requirements if it ontrols. In bathroo an occupancy or vis- must have control abitable spaces ( trols that allow the as must comply wis- s. Integrated lighting lay cabinets, and s Lighting. For sing same lot, must han ical time clock. All ts may be used to address signs. I for Eight or More is for nonresidentia motovoltaic system Area. The solar z by a local jurisdict an 80 square feet uildings with roof aboverhang of the bu- of the solar zone lo ne must not contar and son Construct five load must be ways. The construct on located on the roc ads on Construct five load must be ways. The construct on located on the roc and son construct five load must be ways. The construct on located on the roc and son construct five load must be ways. The construct on located on the roc and son construct five load must be ways. The construct five load must be may be used to and construct five load must be ways. The construct five load must be five load mus	I luminaires must ied Luminaires. Iuding marking re- and Linen Close trolled by vacancy and are equipped ward phase cut d ust fans must be over ve readily access ypass a dimmer, ntrols must comp s. An energy man provides the fun- bors, garages, lau vacancy sensor p ols that turn the lig- e.g., living rooms a lighting to be ma- ith NEMA SSL 7/- ng of exhaust fan switched outlets m gle-family residen ve a manual on/o n energy manage meet these requinternally illumina a garages in §§ y residences locate in stalled, must co- ne must have a space of the sub- tion Documents of or any other pa- between the high- * tion Documents on the solar zone areas greater than a lighting and have a between the high- * tion Documents on the solar zone the solar zone	contain lamps that Lamps and other quirements, must its. Light sources y sensors provided with controls that immers used with controlled separat ible wall-mounted occupant sensor, y with the applica agement control s ctionality of the sp indry rooms, utility roviding automatic ght off when the d d, dining rooms, utility roviding automatic ght off when the d d, dining rooms, utility roviding automatic ght off when the d d, dining rooms, kil anually adjusted ut s shall be controlled it al buildings, out off switch and either ment control syst irements. ted address signs ing for residential p 110.9, 130.0, 130 ted in subdivision contail area must s with roof areas I in 10,000 square f a total area no less sloped roofs must is, including but n rt of the building the st point of the obs for areas of the on the construction a total area no less sloped roofs must is, including but n rt of the building the st point of the obs for areas of the on the construction a panel must hav the panel must	at comply with Refe separable light sou not be installed in internal to drawers d that they are rate t automatically turr in LED light sources ely from lighting sy controls that allow or vacancy sensor ble requirements of system (EMCS) ma ecified control per y rooms and walk-i- coff functionality. I rawer or door is cli- tchens, and bedroo p and down. Forw ed independently f separately from cei loor lighting perma er a photocell and em that provides the must either comply barking garages for 1, 130.4, 140.6, and s with 10 or more served for the comprised of a less than or equal est. For single-fam s than 250 square have an azimuth b ot limited to: vents at projects above a truction and the hor roof designated as on documents. location reserved for the an indicating e a minimum busb e a reserved space	erence Joint Appen pres that are not of enclosed or recess s, cabinetry or liner ad to consume nor in the lighting off wh s must comply with restrems. * v the lighting to be r function if the dim of § 110.9. ay be used to compression in closets, at least of Lighting inside drate osed. orms) must have re- ard phase cut dimmi- from the fans. Lighting innently mounted to motion sensor or a he specified control y with § 140.8 or con- r eight or more veh- nd 141.0. single-family resided lapproved by the eight or are as that have no to 10,000 square fin- nily residences, the feet. * petween 90-300° or a solar zone must be rizontal projection or a solar zone, the si- for inverters and mo- the electrical serve the information fro- ar rating of 200 arri- e to allow for the in- are to allow for the in- the electrical serve the information fro- are to allow for the in- are to allow for the in- are to allow for the in- the electrical serve the information fro- are to allow for the in- are to allow for the in- the electrical serve the information fro- are to allow for the in- are to allow for the in- the electrical serve the to- are to allow for the in- are to allow for the in-	endix JA8. * compliant with essed luminaire more than 5 w when the drawe h NEMA SSL 7 e manually turn mmer or senso apply with dimm physical control to one installed l awers and cab eadily accessil mmers controlli hting under cab ing. o a residential automatic time rol functionality consume no m chicles must comp the data comp the solar zone m enforcement a o dimension le feet or no less the solar zone m of true north. tectural feature e located at lead of the nearest p estructural des metering equip vice; and for s the water-heat of the nearest p estimation of a	es. not required vats of er, cabinet or 7A. ned or is installed ing, ols specified luminaire inets with ble wall- ing LED light binets or building, or to e switch y and meets all ore than 5 omply with the nere the agency, oly with ny ess than 160 must be ess, and roof ast twice the point of the sign loads for pment and a single-family ting system. o)-(c) must be	\$ 150.0(s) \$ 150.0(t) \$ 150.0(u) \$ 150.0(v) *Exceptions may	Energy Storage System (ESS) Re equipment with backed up capacity main service to a subpanel that su source collocated at a single panel near the primary exit, and one circu 225 amps; sufficient space must be panelboard, with raceways installed Heat Pump Space Heater Ready, unobstructed 240V branch circuit w identified as "240V ready;" and a re permanently marked as "For Futurn Electric Cooktop Ready. Systems 240V branch circuit wiring installed "240V ready;" and a reserved main marked as "For Future 240V use." Electric Clothes Dryer Ready. Cli dedicated unobstructed 240V branch the blank cover identified as "240V circuit breaker permanently marked w apply.

36' ί×

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### al Mandatory Requirements Summary

comply with all applicable mandatory measures, regardless of the compliance approach

rs, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or MA/WDMA/CSA 101/I.S.2/A440-2011. \* ust have a label meeting the requirements of § 10-111(a). oducts must use U-factors and solar heat gain coefficient (SHGC) values from They must be caulked and/or weather-stripped. ngs in the building envelope that are potential sources of air leakage must be on must be certified by the Department of Consumer Affairs, Bureau of Household

leated slab floors must be insulated per the requirements of § 110.8(g). Emittance. The thermal emittance and aged solar reflectance values of the .8(i) and be labeled per §10-113 when the installation of a cool roof is specified

t have an emittance of 0.05 or less and be certified to the Department of Consumer of decks in newly constructed attics in climate zones 4 and 8-16 area-weighted fter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average

s minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access ng adhesive or mechanical fasteners. The attic access must be gasketed to ect contact with a roof or ceiling which is sealed to limit infiltration and exfiltration cing insulation either above or below the roof deck or on top of a drywall ceiling. the manufacturer's required density for the labeled R-value. wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood

on-framed assemblies must have an overall assembly U-factor not exceeding 0.102

raised wood framed floor or 0.037 maximum U-factor. et all of the following: have a water absorption rate, for the insulation material alone

a water vapor permeance no greater than 2.0 perm per inch; be protected from in installed as part of a heated slab floor, meet the requirements of § 110.8(g). arth floor of unvented crawl space must be covered with a Class I or Class II olled ventilation crawl space for buildings complying with the exception to

Class I or Class II vapor retarder must be installed on the conditioned space side of nd unvented attics with air-permeable insulation.
skylights, separating conditioned space from unconditioned space or outdoors must have verage U-factor of all fenestration must not exceed 0.45.
not allowed for indoor and outdoor fireplaces.
ces must have a closable metal or glass door covering the entire opening of the firebox.
eplaces must have a combustion outside air intake, which is at least six square inches in perable, and tight-fitting damper or combustion-air control device.
must have a flue damper with a readily accessible control.*

(HVAC) equipment, water heaters, showerheads, faucets, and all other

cturer to the California Energy Commission. le efficiency requirements in Table 110.2-A through Table 110.2-N. ctric Resistance Heaters. Heat pumps with supplementary electric resistance ry heater operation when the heating load can be met by the heat pump alone;

heating is higher than the cut-on temperature for supplementary heating, and her than the cut-off temperature for supplementary heating. rolled by a central energy management control system (EMCS) must have a

s and solar water-heating backup tanks must have adequate insulation, or tank

n input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with r lines to allow for flushing the water heater when the valves are closed.

al Mandatory Requirements Summary

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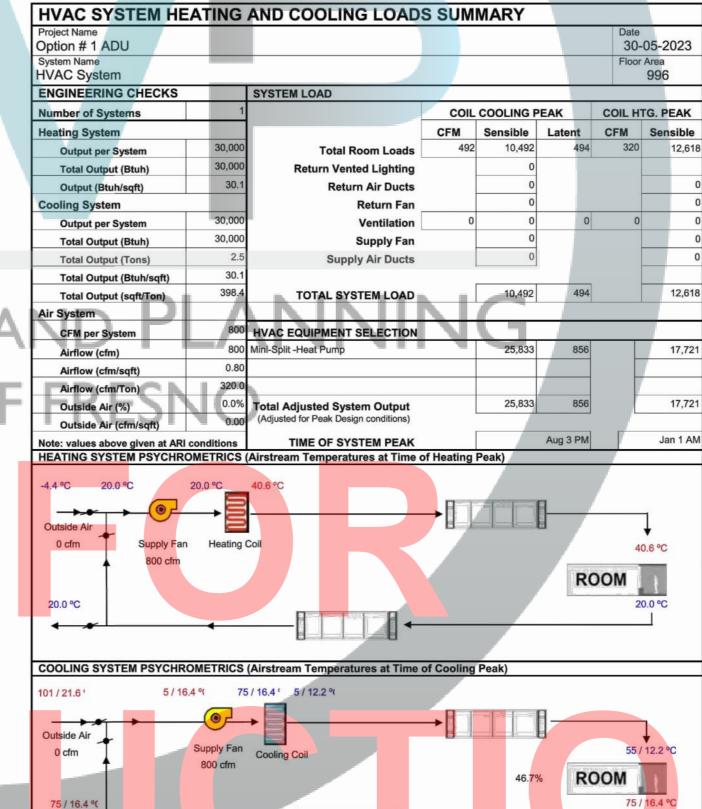
ily residences must meet all of the following: Either ESS-ready interconnection e and four or more ESS supplied branch circuits, or a dedicated raceway from the rcuits in § 150.0(s); at least four branch circuits must be identified and have their e supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit bing room receptacle outlet; main panelboard must have a minimum busbar rating of future installation of a system isolation equipment/transfer switch within 3' of the main board and the switch location to allow the connection of backup power source. serve individual dwelling units must include. A dedicated 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover ical service panel space to allow for the installation of a double pole circuit breaker ane cooktop to serve individual dwelling units must include: A dedicated unobstructe

ktop with circuit conductors rated at least 50 amps with the blank cover identified as anel space to allow for the installation of a double pole circuit breaker permanently s with gas or propane plumbing to serve individual dwelling units must include: A

alled within 3' of the dryer location with circuit conductors rated at least 30 amps with rved main electrical service panel space to allow for the installation of a double pole

Allowed the state of the	
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour ); and pool a
	spa heaters. *
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code.*
§ 150.0(j)2:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment' maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (n adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain n more than 2" higher than the base of the water heater
§ 150.0(n)3:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
ucts and Fans:	
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). I contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 72. The combination of mastic and either mesh or tape must be used to seal openings greater than ¼", If mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board of flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed. *
§ 150.0(m)2:	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plast cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)11:	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to a occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(m)12:	Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 1 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing to filter.*

2022 Single-Family Residential Mandatory Requirements Summary



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	2022 Single-Family Residential Mandatory Requirements Summary
§ 150.0(m)13:	Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be $\geq$ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy $\leq$ 0.45 watts per CFM for gas furnace air handlers and $\leq$ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow $\geq$ 250 CFM per ton of nominal cooling capacity, and an efficacy $\leq$ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *
Ventilation and In	ndoor Air Quality:
§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.*
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole- dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed andcontrolled per §150.0(o)1Biii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses . Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand- controlled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.

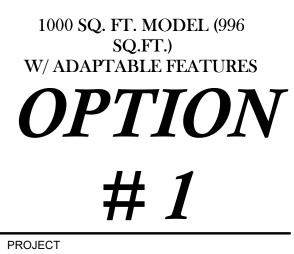
Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, § 150.0(o)2: and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G Pool and Spa Systems and Equipment: Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off § 110.4(a): the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. \* Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating. 110.4(b)1: Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover. § 110.4(b)2: Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time § 110.4(b)3: switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods. § 110.5: Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light. Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump § 150.0(p): sizing, flow rate, piping, filters, and valves. \* Lighting: Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable § 110.9: requirements of § 110.9.\* Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen § 150.0(k)1A: range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 lumens per watt. § 150.0(k)1B: Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtigh § 150.0(k)1C: and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met. Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 § 150.0(k)1D: elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires. Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a

luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor

control, low voltage wiring, or fan speed control. Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k). § 150.0(k)1F:

§ 150.0(k)1E:

5/6/22



# ACCESSORY **DWELLING UNIT**

PWP23-003

### **DEPARTMENT OF PUBLIC** WORKS AND PLANNING



### **CAPITAL PROJECTS** DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



UPDATE

JULY 10, 2023

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**TITLE 24 MANDATORY MEASURES** 

SCALE	
	MM-1
ISSUE DATE	JOB NUMBER
MARCH 7, 2023	2023_24
DRAWN BY	CHECKED BY
Author	Checker

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