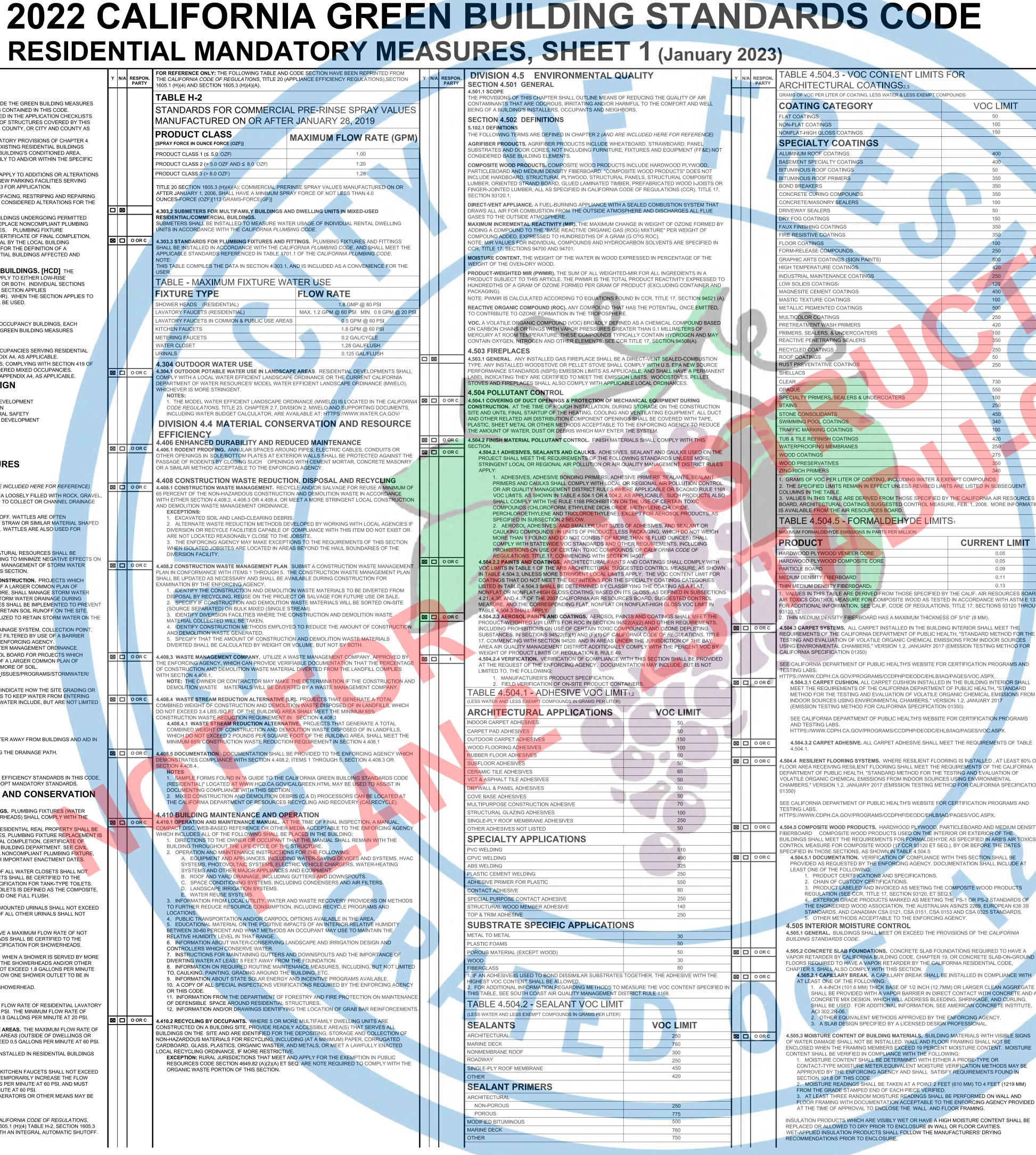




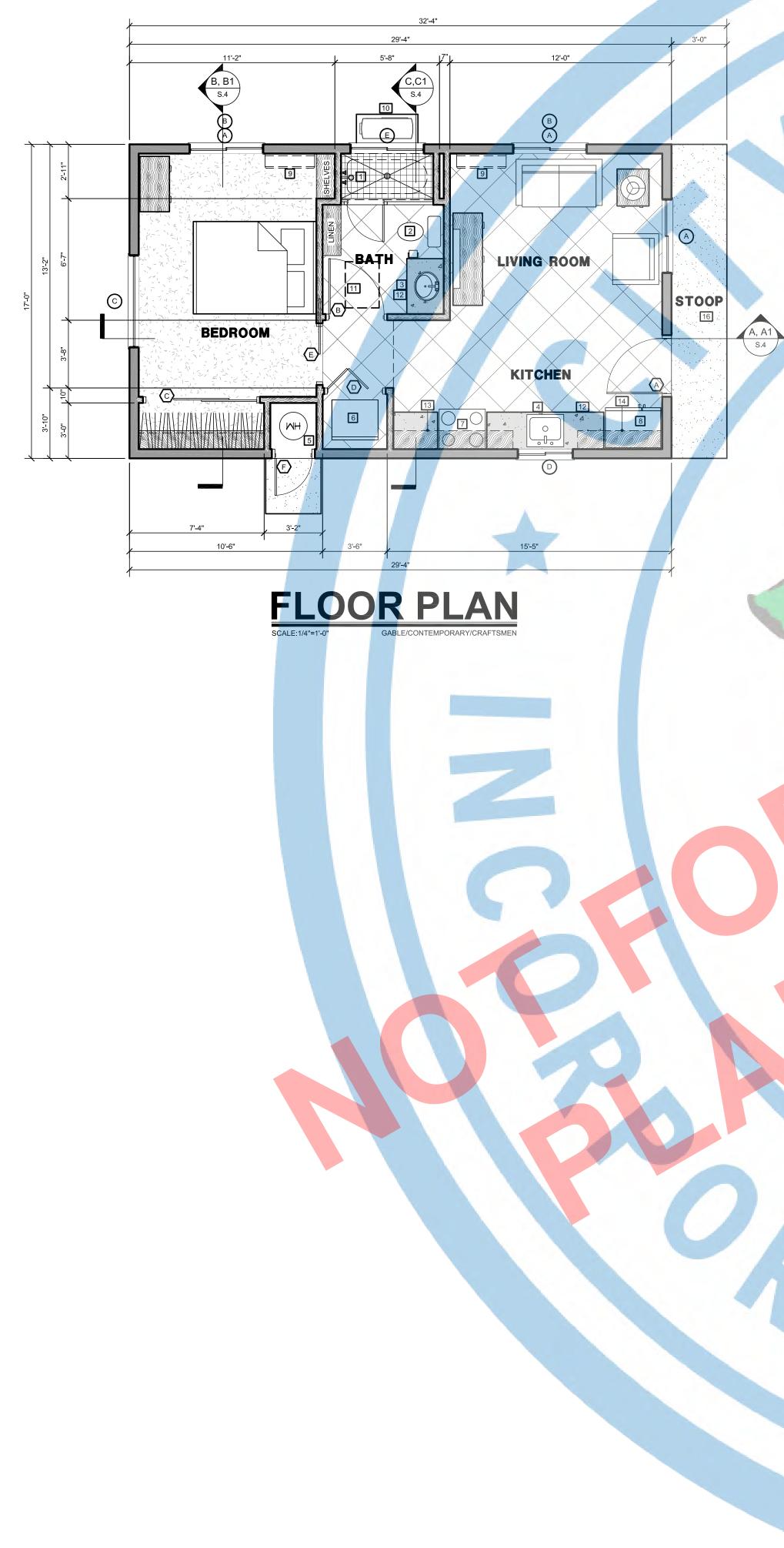
N/A RESPON. PARTY	CHAPTER 3 GREEN BUILDING	Y N/A	RESPO PART	
	SECTION 301 GENERAL 301.1 SCOPE. BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE.			TABLE H-2 STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VA
	VOLUNTARY 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 ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN SECTION 101.7.			MANUFACTURED ON OR AFTER JANUARY 28, 2019 PRODUCT CLASS
	301.1.1 ADDITIONS AND ALTERATIONS. [HCD] 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,			PRODUCT CLASS MAXIMUM FLOW RATE [spray force in ounce force (ozf)] PRODUCT CLASS 1 (≤ 5.0 OZF) 1.00
	VOLUME, OR SIZE. THE REQUIREMENTS SHALL APPLY ONLY TO AND/OR WITHIN THE SPECIFIC AREA OF THE ADDITION OR ALTERATION. THE MANDATORY PROVISION OF SECTION 4.106.4.2 MAY APPLY TO ADDITIONS OR ALTERATIONS			PRODUCT CLASS 2 (> 5.0 OZF AND ≤ 8.0 OZF) 1.20 PRODUCT CLASS 3 (> 8.0 OZF) 1.28
	OF EXISTING PARKING FACILITIES OR THE ADDITION OF NEW PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS. SEE SECTION 4.106.4.3 FOR APPLICATION. NOTE: REPAIRS INCLUDING, BUT NOT LIMITED TO, RESURFACING, RESTRIPING AND REPAIRING			TITLE 20 SECTION 1605.3 (H)(4)(A): COMMERCIAL PRERINSE SPRAY VALUES MANUFACTURED O AFTER JANUARY 1, 2006, SHALL HAVE A MINIMUM SPRAY FORCE OF NOT LESS THAN 4.0 OUNCES-FORCE (OZF)[113 GRAMS-FORCE(GF)]
	OR MAINTAINING EXISTING LIGHTING FIXTURES ARE NOT CONSIDERED ALTERATIONS FOR THE PURPOSE OF THIS SECTION. NOTE: ON AND AFTER JANUARY 1, 2014, RESIDENTIAL BUILDINGS UNDERGOING PERMITTED			4.303.2 SUBMETERS FOR MULTIFAMILY BUILDINGS AND DWELLING UNITS IN MIXED-USED RESIDENTIAL/COMMERCIAL BUILDINGS.
	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		O OR (
	DEPARTMENT. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.			SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL ME APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FO
	301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] THE PROVISIONS OF INDIVIDUAL SECTIONS OF CALGREEN MAY APPLY TO EITHER LOW-RISE RESIDENTIAL BUILDINGS HIGH-RISE RESIDENTIAL BUILDINGS, OR BOTH. INDIVIDUAL SECTIONS			TABLE - MAXIMUM FIXTURE WATER USE
	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.			FIXTURE TYPE FLOW RATE SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI
	SECTION 302 MIXED OCCUPANCY BUILDINGS 302.1 MIXED OCCUPANCY BUILDINGS. IN MIXED OCCUPANCY BUILDINGS, EACH PORTION OF A BUILDING SHALL COMPLY WITH THE SPECIFIC GREEN BUILDING MEASURES			LAVATORY FAUCETS (RESIDENTIAL) MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPH LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS 0.5 GPM @ 60 PSI KITCHEN FAUCETS 1.8 GPM @ 60 PSI
	APPLICABLE TO EACH SPECIFIC OCCUPANCY. EXCEPTIONS: 1. [HCD] ACCESSORY STRUCTURES AND ACCESSORY OCCUPANCIES SERVING RESIDENTIAL			METERING FAUCETS 0.2 GAL/CYCLE WATER CLOSET 1.28 GAL/FLUSH URINALS 0.125 GAL/FLUSH
	BUILDINGS SHALL COMPLY WITH CHAPTER 4 AND APPENDIX A4, AS APPLICABLE. 2. [HCD] FOR PURPOSES OF <i>CAL</i> GREEN, LIVE/WORK UNITS, COMPLYING WITH SECTION 419 OF THE <i>CALIFORNIA BUILDING CODE</i> , SHALL NOT BE CONSIDERED MIXED OCCUPANCIES. LIVE/WORK UNITS SHALL COMPLY WITH CHAPTER 4 AND APPENDIX A4, AS APPLICABLE.		O OR (4.304 OUTDOOR WATER USE 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. RESIDENTIAL DEVELOPMENT
	DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS:			COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFOR DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (M) WHICHEVER IS MORE STRINGENT. NOTES:
	HCD DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT BSC CALIFORNIA BUILDING STANDARDS COMMISSION DSA-SS DIVISION OF THE STATE ARCHITECT, STRUCTURAL SAFETY OSHPD OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT			1. THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) IS LOCATED IN THE C CODE REGULATIONS, TITLE 23, CHAPTER 2.7, DIVISION 2. MWELO AND SUPPORTING DOCU INCLUDING WATER BUDGET CALCULATOR, ARE AVAILABLE AT: HTTPS://WWW.WATER.CA.G
	OSHPD OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT LR LOW RISE HR HIGH RISE AA ADDITIONS AND ALTERATIONS			DIVISION 4.4 MATERIAL CONSERVATION AND RESOU
			O OR (4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAI PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE M
	RESIDENTIAL MANDATORY MEASURES SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS			OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.
	THE FOLLOWING TERMS ARE DEFINED IN CHAPTER 2 (AND ARE INCLUDED HERE FOR REFERENCE) FRENCH DRAIN. 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		0 OR (C 4.408.1 CONSTRUCTION WASTE MANAGEMENT. RECYCLE AND/OR SALVAGE FOR REUSE A MIN 65 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDA WITH EITHER SECTION 4.408.2, 4.408.3 OR 4.408.4, OR MEET A MORE STRINGENT LOCAL CONST AND DEMOLITION WASTE MANAGEMENT ORDINANCE.
	OR RUNOFF WATER. WATTLES, WATTLES ARE USED TO REDUCE SEDIMENT IN RUNOFF. WATTLES ARE OFTEN CONSTRUCTED OF NATURAL PLANT MATERIALS SUCH AS HAY, STRAW OR SIMILAR MATERIAL SHAPED			EXCEPTIONS: 1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS. 2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGE
	IN THE FORM OF TUBES AND PLACED ON A DOWNFLOW SLOPE. WATTLES ARE ALSO USED FOR PERIMETER AND INLET CONTROLS. 4.106 SITE DEVELOPMENT			DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT E ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE. 3. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SE WHEN ISOLATED JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF T
O OR C	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.		O OR (DIVERSION FACILITY. C 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN.
OR C	4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. 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			PLAN IN CONFORMANCE WITH ITEMS 1 THROUGH 5. THE CONSTRUCTION WASTE MANAGEMEN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY. 1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED F
	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.			DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SA 2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON (SOURCE SEPARATED) OR BULK MIXED (SINGLE STREAM).
	 RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON THE SITE. 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 			 IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL COLLECTED WILL BE TAKEN. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTR AND DEMOLITION WASTE GENERATED.
	SYSTEM, WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY. 3. COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT ORDINANCE. NOTE: REFER TO THE STATE WATER RESOURCES CONTROL BOARD FOR PROJECTS WHICH		O OR (5. SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH. C 4.408.3 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY, APPROV
	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/			THE ENFORCING AGENCY, WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERU OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMP WITH SECTION 4.408.1.
OR C	CONSTRUCTION.HTML) 4.106.3 GRADING AND PAVING. 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		O OR (NOTE: THE OWNER OR CONTRACTOR MAY MAKE THE DETERMINATION IF THE CONSTRUCT DEMOLITION WASTE MATERIALS WILL BE DIVERTED BY A WASTE MANAGEMENT COMPARE C 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. PROJECTS THAT GENERATE A TOTAL
	TO, THE FOLLOWING: 1. SWALES 2. WATER COLLECTION AND DISPOSAL SYSTEMS			COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS, DO NOT EXCEED 3.4 LBS./SQ.FT. OF THE BUILDING AREA SHALL MEET THE MINIMUM 65% CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE, PROJECTS THAT GENERATE A TOTA
	 FRENCH DRAINS WATER RETENTION GARDENS OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS AND AID IN GROUNDWATER RECHARGE. 			COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDER WHICH DO NOT EXCEED 2 POUNDS PER SQUARE FOOT OF THE BUILDING AREA, SHALL ME MINIMUM 65% CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1
	EXCEPTION: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH. DIVISION 4.2 ENERGY EFFICIENCY		O OR (4.408.5 DOCUMENTATION. DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENC DEMONSTRATES COMPLIANCE WITH SECTION 4.408.2, ITEMS 1 THROUGH 5, SECTION 4.408.3 OF SECTION 4.408.4.
	4.201 GENERAL 4.201.1 SCOPE. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY STANDARDS.			NOTES: 1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS (RESIDENTIAL)" LOCATED AT WWW.HCD.CA.GOV/CALGREEN.HTML MAY BE USED TO ASSIS DOCUMENTING COMPLIANCE WITH THIS SECTION.
ORC	DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER			2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C & D) PROCESSORS CAN BE LOCAT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCL
	CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE SECTIONS 4.303.1.1, 4.303.1.2, 4.303.1.3, AND 4.303.4.4. NOTE: ALL NONCOMPLIANT PLUMBING FIXTURES IN ANY RESIDENTIAL REAL PROPERTY SHALL BE		O OR	4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL. AT THE TIME OF FINAL INSPECTION, A MANU COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING:
	REPLACED 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 NONCOMPLIANT PLUMBING FIXTURE,			 DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE. OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
	TYPES OF RESIDENTIAL BUILDINGS 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 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE			 A. EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEM SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGERS, WATER-HEATI SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT. B. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
	PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.			 C. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS. D. LANDSCAPE IRRIGATION SYSTEMS. E. WATER REUSE SYSTEMS.
	4.303.1.2 URINALS. THE EFFECTIVE FLUSH VOLUME OF WALL MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. THE EFFECTIVE FLUSH VOLUME OF ALL OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.			 INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON M TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
	4.303.1.3 SHOWERHEADS. 4.303.1.3.1 SINGLE SHOWERHEAD. 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			 EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMID BETWEEN 30-60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE. INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND
	PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS. 4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL THE SHOWERHEADS AND/OR OTHER			CONTROLLERS WHICH CONSERVE WATER. 7. INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
	SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ONLY ALLOW ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.			 INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NO TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC. INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE. A COPY OF ALL SPECIAL INSPECTIONS VERIFICATIONS REQUIRED BY THE ENFORCING
	NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD. 4.303.1.4 FAUCETS. 4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY			OR THIS CODE. 11. INFORMATION FROM THE DEPARTMENT OF FORESTRY AND FIRE PROTECTION ON MAI OF DEFENSIBLE SPACE AROUND RESIDENTIAL STRUCTURES. 12. INFORMATION AND/OR DRAWINGS IDENTIFYING THE LOCATION OF GRAB BAR REINFOR
	FAUCETS SHALL NOT EXCEED 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. 4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS. THE MAXIMUM FLOW RATE OF		O OR (C 4.410.2 RECYCLING BY OCCUPANTS. WHERE 5 OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON A BUILDING SITE, PROVIDE READILY ACCESSIBLE AREA(S) THAT SERVES AN
	LAVATORY FAUCETS INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.			BUILDINGS ON THE SITE AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECT NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGA CARDBOARD, GLASS, PLASTICS, ORGANIC WASTER, AND METALS, OR MEET A LAWFULLY ENAC LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.
	 4.303.1.4.3 METERING FAUCETS. METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS SHALL NOT DELIVER MORE THAN 0.2 GALLONS PER CYCLE. 4.303.1.4.4 KITCHEN FAUCETS. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 			EXCEPTION: RURAL JURISDICTIONS THAT MEET AND APPLY FOR THE EXEMPTION IN PUBL RESOURCES CODE SECTION 4649.82 (A)(2)(A) ET SEQ. ARE NOTE REQUIRED TO COMPLY W ORGANIC WASTE PORTION OF THIS SECTION.
	1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO 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.			
	NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION. 4.303.1.4.5 PRE-RINSE SPRAY VALVES.			
	WHEN INSTALLED, SHALL MEET THE REQUIREMENTS IN THE CALIFORNIA CODE OF REGULATIONS,			



NOT APPLICABLE RESPONSIBLE PARTY (OWNER = 0) RESPON PARTY CONTRACTOR = C INSPECTOR = I 4.506 INDOOR AIR QUALITY AND EXHAUST 🛛 🗖 0 OR C S 4.506.1 BATHROOM EXHAUST FANS. EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND Z SHALL COMPLY WITH THE FOLLOWING: 00 1. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE 0 BUILDING 9 2. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS 0 MUST BE CONTROLLED BY A HUMIDITY CONTROL. A. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE PD 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 ATED OU 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 507 ENVIRONMENTAL COMFORT PLANNING AND DEVELOPMENT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. HEATING AND AIR CONDITIONING SYSTEMS ALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING DEPARTMENT HE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J - 2011 FRESNO CITY HALL ESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS. 2600 FRESNO STREET DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D - 2014 (RESIDENTIAL DUCT SYSTEMS) ASHRAF HANDBOOKS OR OTHER FOULVALENT DESIGN SOFTWARE OR METHODS THIRD FLOOR 3. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S - 2014 (RESIDENTIAL EQUIPMENT SELECTION), OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS FRESNO. CA. 93721-3600 EXCEPTION: USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO ENSURE THE SYSTEM 559-621-8084 UNCTIONS ARE ACCEPTABLE **CHAPTER 7** darm.building@fresno.gov **INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS** C) 2023 CITY OF FRESNO 702 QUALIFICATIONS THESE DRAWINGS, DESIGNS SKETCHES, IDEAS, DOCUMENTS, PLANS, ARRANGEMENTS, AND OTHER INFORMATION CONTAINED THEREIN, ARE THE SOLE AND EXCLUSIVE PROPERTY OF CITY OF FRESNO. THESE DOCUMENTS ARE DELIVERED AND ACCEPTED BY YOU IN TRUST AND ON THE EXPRESS CONDITION THAT NEITHER THESE DOCUMENTS OR THE INFORMATION CONTAINED THEREIN WILL BE THEREIN WILL BE COPIED, REPRODUCED, OR DELIVERED TO OTHERS, EXCEPT AS SPECIFICALLY INSTRUCTED BY CITY OF EPESNO 702.1 INSTALLER TRAINING. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN E PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY FORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A ERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL AC SYSTEMS, EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE ARE NOT LIMITED TO THE F STATE CERTIFIED APPRENTICESHIP PROGRAMS. **PROJECT**: 2. PUBLIC UTILITY TRAINING PROGRAMS. . TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATEWIDE ENERGY CONSULTING OR ACCESSORY VERIFICATION ORGANIZATIONS 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 WNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE DWELLING PECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE PLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE ATISFACTION OF THE ENFORCIN<mark>G AGEN</mark>CY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO I PERFORMED. IN ADDITION TO OTHER CERTIFICATIONS OR QUALIFICATIONS ACCEPTABLE TO THE ENFORCING AGENCY, THE FOLLOWING CERTIFICATIONS OR EDUCATION MAY BE CONSIDERED BY THE UNIT 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, BUILDING PERFORMANCE CONTRACTORS, AND HOME ENERGY AUDITORS. (TADU-002)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 THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE. PLAN 2 2. HERS RATERS ARE SPECIAL INSPECTORS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION (CEC) TO RATE HOMES IN CALIFORNIA ACCORDING TO THE HOME ENERGY RATING SYSTEM (HERS). SC] WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING S 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 INSPECTO 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 INSPECTO 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** 703.1 DOCUMENTATION. DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE HALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDE DR 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 GREEN BUILDING STANDARDS: PROVIDE CERTIFICATION FOR THE FOLLOWING CALGREEN COMPONENTS. DOCUMENTATION SHALL BE REQUIRED PRIOR TO CITY INSPECTIONS AS NOTED BELOW: REVISIONS A) INDOOR WATER USE (FINAL INSPECTION 3) MOISTURE CONTENT OF BUILDING MATERIALS BY THIRD PARTY SPECIAL INSPECTOR (INSULATION DESCRIPTION I NO. DATE ADHESIVE AND SEALANT VOC (FINAL INSPECTION) D) PAINTS AND COATINGS VOC LIMITS (FINAL INSPECTION) E) COMPOSITE WOOD PRODUCTS (FRAME INSPECTION) CARPET AND FLOORING CERTIFICATION (FINAL INSPECTION) CITY USE ONLY DRAWING TITLE 2022 CALIFORNIA GREEN BUILDING

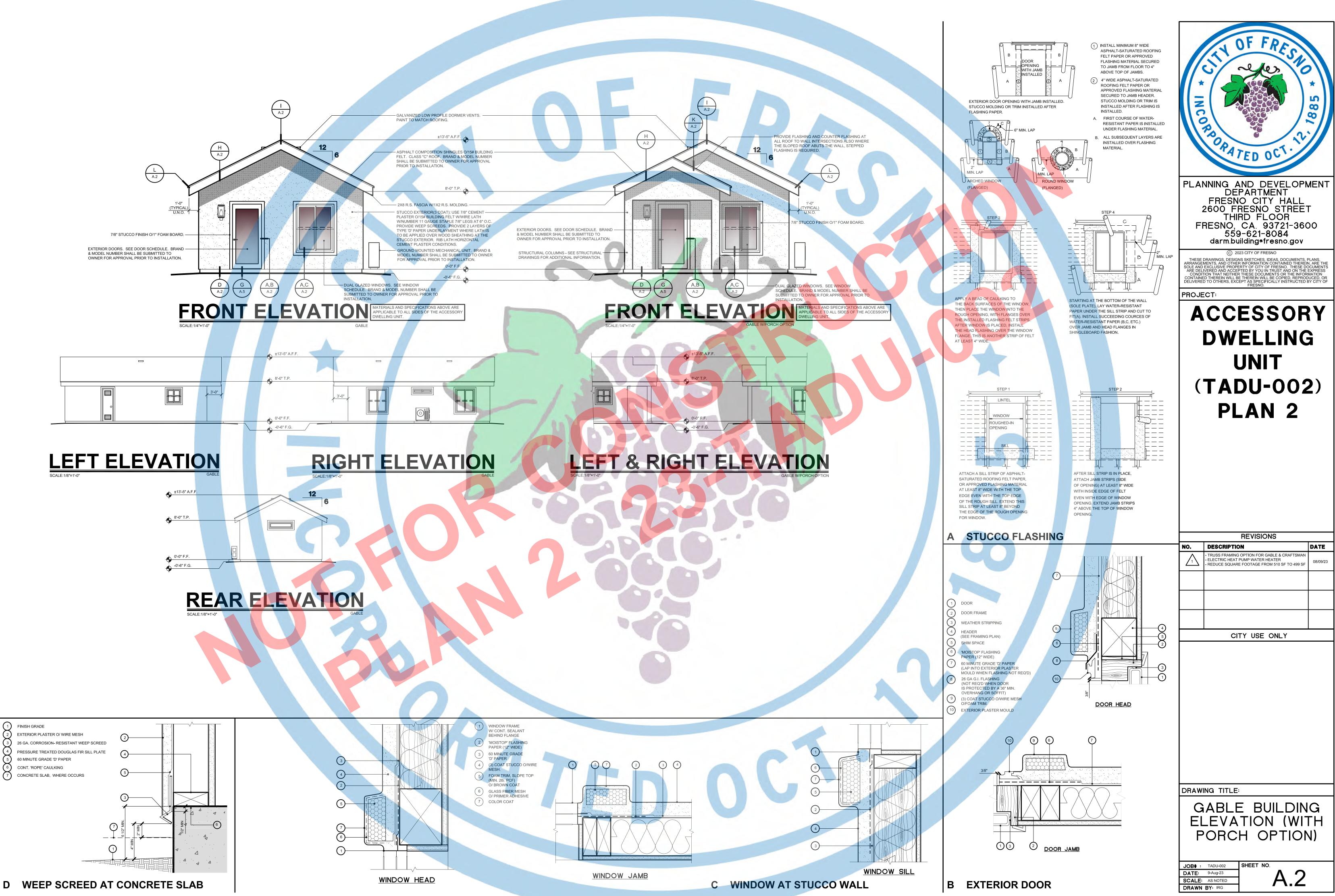
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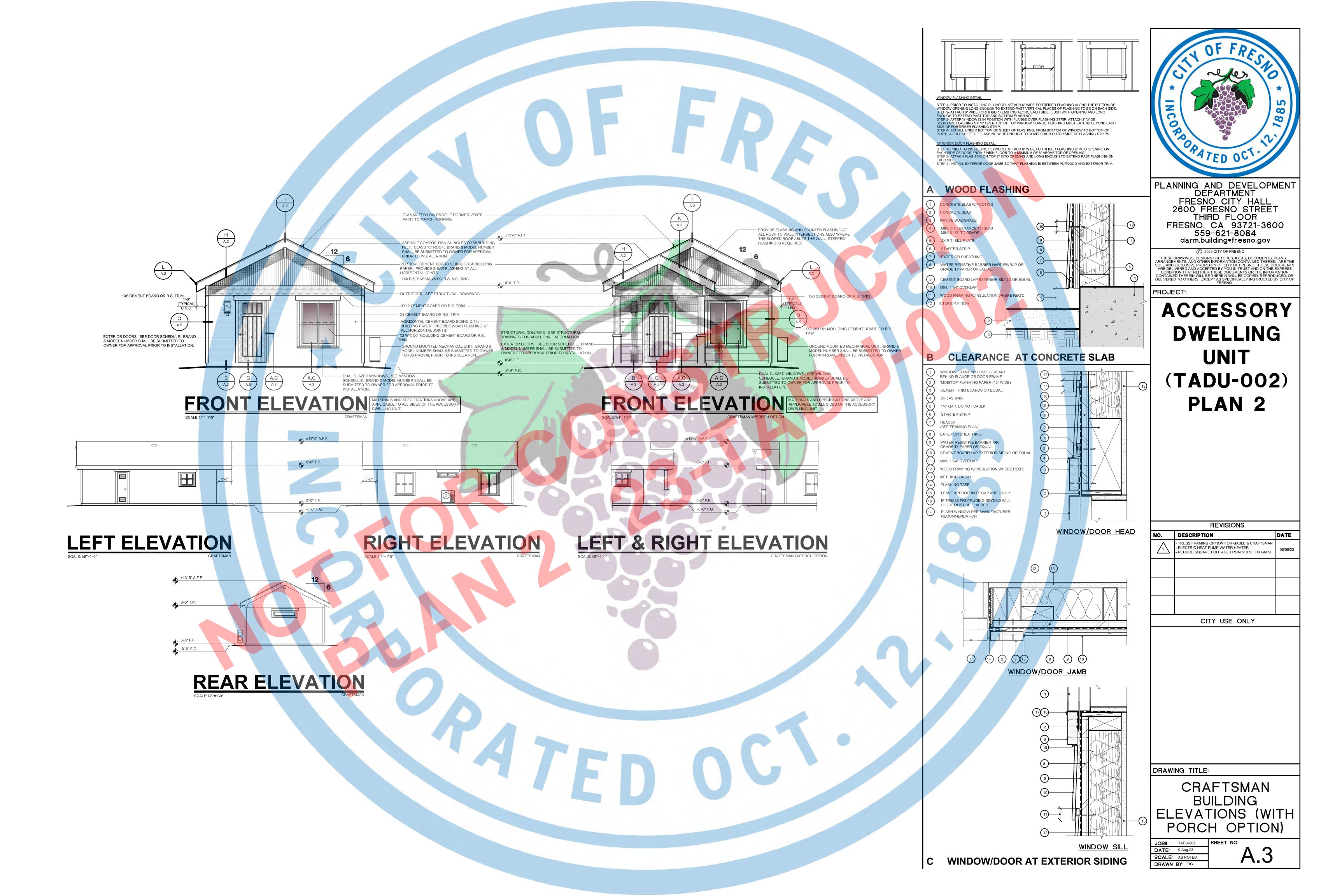


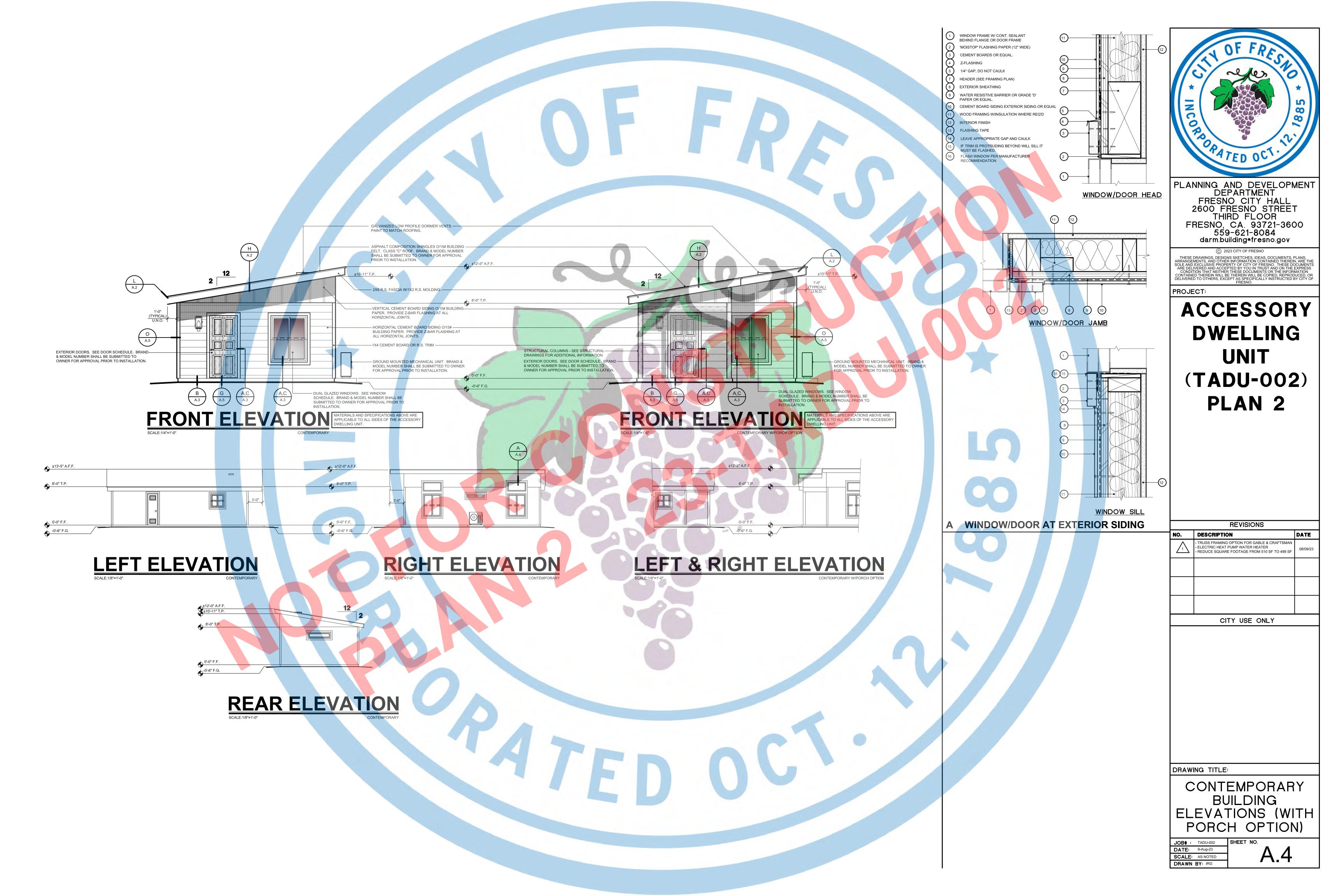
	FINISH SCHEDULE:
	ROOM NAME F1 F2 B1 B2 W1 W2 C1 C2 HEIGHT DETAIL OR COMMENT LIVING ROOM Image: Comparison of the comparison o
	KITCHEN Image: Constraint of the state of t
5'-0" 4'-0" k 1'-0"	ABBRE VIATIONS FLOORING BASE F1 = EXPOSED SLAB FINISH B1 = NO BASE BOARD
	F2 = PER OWNER PROVIDE MAKE, MODEL, AND FINISH SAMPLE TO OWNER PRIOR TO INSTALLATION. B2 = PER OWNER PROVIDE MAKE, MODEL, AND FINISH SAMPLE TO OWNER PRIOR TO INSTALLATION. WALLS WALLS W1 = 1/2" GYPSUM BOARD, TAPED AND TEXTURED, READY FOR OWNER TO APPLY PAINT.
	W2 = 5/8" TYPE 'X' GYPSUM BOARD, TAPED AND TEXTURED, READY FOR OWNER TO APPLY PAINT. CEILING C1 = 1/2" GYPSUM BOARD, TAPED AND TEXTURED, READY FOR OWNER TO APPLY PAINT. C2 = 5/8" TYPE 'X' GYPSUM BOARD, TAPED AND TEXTURED, READY FOR OWNER TO APPLY PAINT.
	DETAIL OR COMMENT 1. VAULTED CEILING FOR CONTEMPORARY OPTION. 2.
	FINISH NOTES 1. ALL INTERIOR SURFACES TO BE FLAME SPREAD CLASS 50. 2. LINEN CLOSET: CABINET DESIGN AND SAMPLE MATERIALS SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO FABRICATING AND INSTALLATION.
	 CLOSET POLES SHALL BE 1-1/8" DIAMETER SANDED W/POLE SOCKET AT WALLS MOUNTED AT ALL THE FOLLOWING HEIGHTS: (SEE DETAIL A/A.5) SINGLE POLE HEIGHTS +68" DOUBLE POLE HEIGHTS +40" (LOW) + 80" (HIGH) CLOSET SHELVES SHALL BE 3/4" THICK PARTICLE BOARD W/ MEDIUM DENSITY OVERLAY AT ALL EXPOSED EDGES,
	 SHELF AND CLOSET POLE SUPPORT AT MID-SPAN ON ALL SHELVES OVER 4'-0" LONG. PANTRY/SHEVLES: CABINET DESIGN AND SAMPLE MATERIALS SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOF TO FABRICATING AND INSTALLATION. BASE AND UPPER CABINETS: CABINET DESIGN AND SAMPLE MATERIALS/HARDWARE SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO FABRICATING AND INSTALLATION. (SEE DETAIL B/A.5)
	BOTTOM OF CABINET: +48" A.F.F. (WASHER & DRYER) +72" A.F.F. (REFRIGERATOR) +48" A.F.F. (BASE COUNTER) 6. COUNTER TOPS: VERIFY FINISH WITH OWNER, SAMPLES SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.
PORCH (A) (A) (A) (A) (A) (A) (A) (A)	 INSTALLATION. CEILING HEIGHT: HABITABLE ROOMS SHALL HAVE A MINIMUM CEILING HEIGHT OF 7'-6". HALLWAYS, BATHROOMS, KITCHENS. GARAGE AND CARPORTS 7'-0" AGING-IN-PLACE DESIGN & FALL PREVENTION
	REINFORCEMENT FOR GRAB BARS: 1. AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CRC SECTION R327.1.1. 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. A. REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE CITY OF FRESNO. B. REINFORCEMENT SHALL NOT BE LESS THAN 2 BY 8 INCH NOMINAL LUMBER. [11/2 INCH BY 71/4 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 FINISHED FLOOR FLUSH WITH THE WALL FRAMING. WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE, OR ONE SIDE WALL AND THE BACK WALL.
	 D. SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED. E. 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.
FLOOR PLAN	EXCEPTIONS: 1. WHERE THE WATER CLOSET IS NOT PLACED ADJACENT TO A SIDE WALL CAPABLE OF ACCOMMODATING A GRAB BAR, THE BATHROOM SHALL HAVE PROVISIONS FOR INSTALLATION OF FLOOR-MOUNTED, FOLDAWAY OR SIMILAR ALTERNATE GRAB BAR REINFORCEMENTS APPROVED BY THE CITY OF FRESHO.
SCALE:1/4"=1'-0" PORCH OPTION	 REINFORCEMENT SHALL NOT BE REQUIRED IN WALL FRAMING FOR PRE-FABRICATED SHOWER ENCLOSURES AND BATHTUB WALL PANELS WITH INTEGRAL FACTORY- INSTALLED GRAB BARS OR WHEN FACTORY-INSTALLED REINFORCEMENT FOR GRAB BARS IS PROVIDED. 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. 4. 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.
	 REINFORCEMENT OF FLOORS SHALL NOT BE REQUIRED FOR BATHTUBS AND WATER CLOSETS INSTALLED ON CONCRETE SLAB FLOORS. DOCUMENTATION FOR GRAB BAR REINFORCEMENT. INFORMATION AND/OR DRAWINGS IDENTIFYING THE LOCATION OF GRAB BAR REINFORCEMENT SHALL BE PLACED IN
	THE OPERATION AND MAINTENANCE MANUAL IN ACCORDANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS CODE, CHAPTER 4, DIVISION 4.4.
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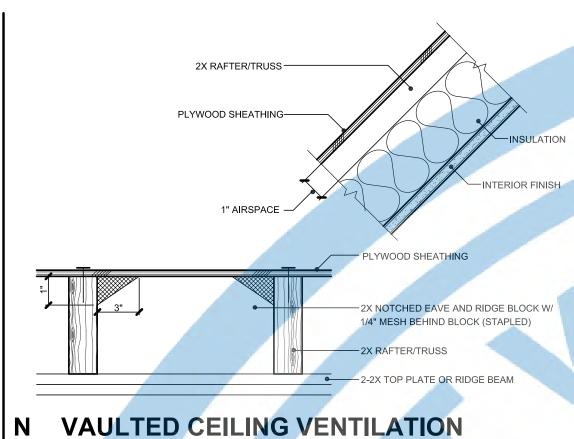
GLAZING SCHEDULE: SYMBOL TYPE GLASS GLAZING MATERIAL TEMPERED DETAIL OR	
SYMBOL WIDTH HEIGHT TYPE GLASS GLAZING MATERIAL TEMPERED U-FACTOR SHGC DETAIL OR COMMENT A 4'-0" 5'-0" Image: Structure Image: Structure <td>NOF FRES</td>	NOF FRES
A 4-0 5-0 C C 5-0 C C 5-0 C C 5-0 C <thc< th=""> <thc< th=""> <thc< th=""> C <</thc<></thc<></thc<>	
D 3'-0" O <td></td>	
ABBREVIATIONS TYPE DETAIL OR COMMENT	
SL = DOUBLE SLIDER 1. GLAZING TYPE MUST MATCH THE EXISTING PRIMARY RESIDENCE GLAZING TYPE. (I.E. EXISTING PRIMARY RESIDENCE HAS SINGLE HUNG THEN PROPOSED ADU MUST HAVE	
FX = FIXED SINGLE HUNG.) RT = RECTANGLE TRANSOM 2. AT CONTEMPORARY OPTION ONLY. GLASS 3. AT CONTEMPORARY OPTION ONLY.	
CL = CLEAR GLASS FG = FROSTED GLASS	P S
GLAZING NOTES :	
1. ALL GLASS AND GLAZING SHALL COMPLY WITH APPLICABLE CODES AND MUST BE LABELED SAFETY GLAZING AT HAZARDOUS LOCATIONS DEFINED AS: GLAZING AT ALL DOORS, BATH & SHOWER ENCLOSURES, GLAZING WITHIN A	ORATED OCT.
24" ARC OF A DOOR EDGE, PANELS OVER (9) SQUARE FEET WITH THE LOWEST EDGE LESS THAN 18" A.F.F. AND HAVING A TOP EDGE GREATER THAN 36" A.F.F., GLAZING LOCATED WITHIN 5"-0" FROM TOP OR BOTTOM OF STAIRWAY WITH BOTTOM EDGE LESS THAN 60" A.F.F.	
ALL EXTERIOR GLAZING SHALL BE DUAL-GLAZED UNLESS OTHERWISE NOTED. UNIT SKYLIGHTS SHALL BE TESTED AND APPROVED BY AN APPROVED INDEPENDENT LABORATORY, AND BEAR A LABEL IDENTIFYING MANUFACTURER, PERFORMANCE GRADE RATING AND APPROVED INSPECTION AGENCY TO	PLANNING AND DEVELOPMENT
 INDICATE COMPLIANCE WITH THE REQUIREMENTS OF AAMAWDMA/CSA010/I.S.2/A440. (R 308.6.9) 4. SKYLIGHTS AND SLOPED GLAZING SHALL COMPLY WITH SECTION (R 308.6) 5. EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF 	DEPARTMENT FRESNO CITY HALL
EXTERIOR GLAZED OPENINGS IN ACCORDANCE WITH SECTION R 303.1 OR SHALL BE PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE ILLUMINATION OF 6 FOOT-CANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30 INCHES ABOVE THE FLOOR LEVEL. (R 303.1)	2600 FRESNO STREET THIRD FLOOR
6. GLAZING IN THE FOLLOWING LOCATIONS SHALL BE SAFETY GLAZING CONFORMING TO THE HUMAN IMPACT LOADS OF SECTION R 308.3 (SEE EXCEPTIONS) (R 308.4).	FRESNO, CA. 93721-3600
 A. FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BI-FOLD DOOR ASSEMBLIES. B. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION 	559-621-8084 darm.building®fresno.gov
AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING SURFACE. C. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS: 1.) EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQUARE FEET.	© 2023 CITY OF FRESNO
2.) BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR. 3.) TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR.	THESE DRAWINGS, DESIGNS SKETCHES, IDEAS, DOCUMENTS, PLANS, ARRANGEMENTS, AND OTHER INFORMATION CONTAINED THEREIN, ARE THE SOLE AND EXCLUSIVE PROPERTY OF CITY OF FRESNO. THESE DOCUMENTS ARE DELIVERED AND ACCEPTED BY YOU IN TRUST AND ON THE EXPRESS
 4.) ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE GLAZING. D. GLAZING IN RAILINGS. E. GLAZING IN ENCLOSURES FOR OR WALLS FACING HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS 	CONDITION THAT NEITHER THESE DOCUMENTS OR THE INFORMATION CONTAINED THEREIN WILL BE THEREIN WILL BE COPIED, REPRODUCED, OR DELIVERED TO OTHERS, EXCEPT AS SPECIFICALLY INSTRUCTED BY CITY OF FRESNO.
AND SHOWERS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE. F. GLAZING IN WALLS AND FENCE ADJACENT TO INDOOR AND OUTDOOR SWIMMING POOLS, HOT TUBS AND SPAS	PROJECT:
WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND WITHIN 60 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE WATER'S EDGE. G. GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF	ACCESSORY
THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS. H. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN 60 INCHES HORIZONTALLY OF THE BOTTOM TREAD.	ACCESSURI
DOOR SCHEDULE:	DWELLING
SYMBOL THICK MATERIAL FINISH TYPE CORE FRAME DETAIL OR	
WIDTH HEIGHT 1% 1% PL WD TG PT HG BF BP PC SC HC HM WD PT COMMENT A 3'-0" 6'-8" Image: Comparison of the second se	UNIT
B 3'-0" 6'-8" Image: Constraint of the state of	— — — — —
D 3'-0" 6'-8" Image: Constraint of the state of	(TADU-002)
F 2'-0" 6'-8" Image: Constraint of the second	
MATERIAL CORE DETAIL OR COMMENT PL = PLASTIC LAMINATE SC = SOLID CORE 1. SEE DETAIL D/A.5 WD = WOOD HC = HOLLOW CORE 2. SEE DETAIL E/A.5	PLAN 2
TG = TEMPERED GLASS HM = HOLLOW METAL 3. SEE DETAIL F/A.5 TYPE FINISH 5. LOUVER DOOR	
HG = HINGED DOOR BF = BI FOLD DOOR BP = BI PASS DOOR FRAME	
PC = POCKET DOOR WD = WOOD	
PT = PAINTED	
PT = PAINTED	
PT = PAINTED EGRESS, EXITS, & STAIRWAY NOTES : 1. THE MEANS OF EGRESS SHALL PROVIDE A CONTINUOUS AND UNOBSTRUCTED PATH OF VERTICAL AND HORIZONTAL EGRESS TRAVEL FROM ALL PORTIONS OF THE DWELLING TO THE EXTERIOR OF THE DWELLING AT THE REQUIRED EGRESS DOOR WITHOUT REQUIRING TRAVEL THROUGH A GARAGE. THE REQUIRED EGRESS DOOR SHALL OPEN DIRECTLY INTO A PUBLIC WAY OR TO A YARD OR COURT THAT OPENS TO A PUBLIC WAY. (R 311.1) 2. AT LEAST ONE DOOR SHALL BE 36" WIDE BY 80" HIGH. (R 311.2)	
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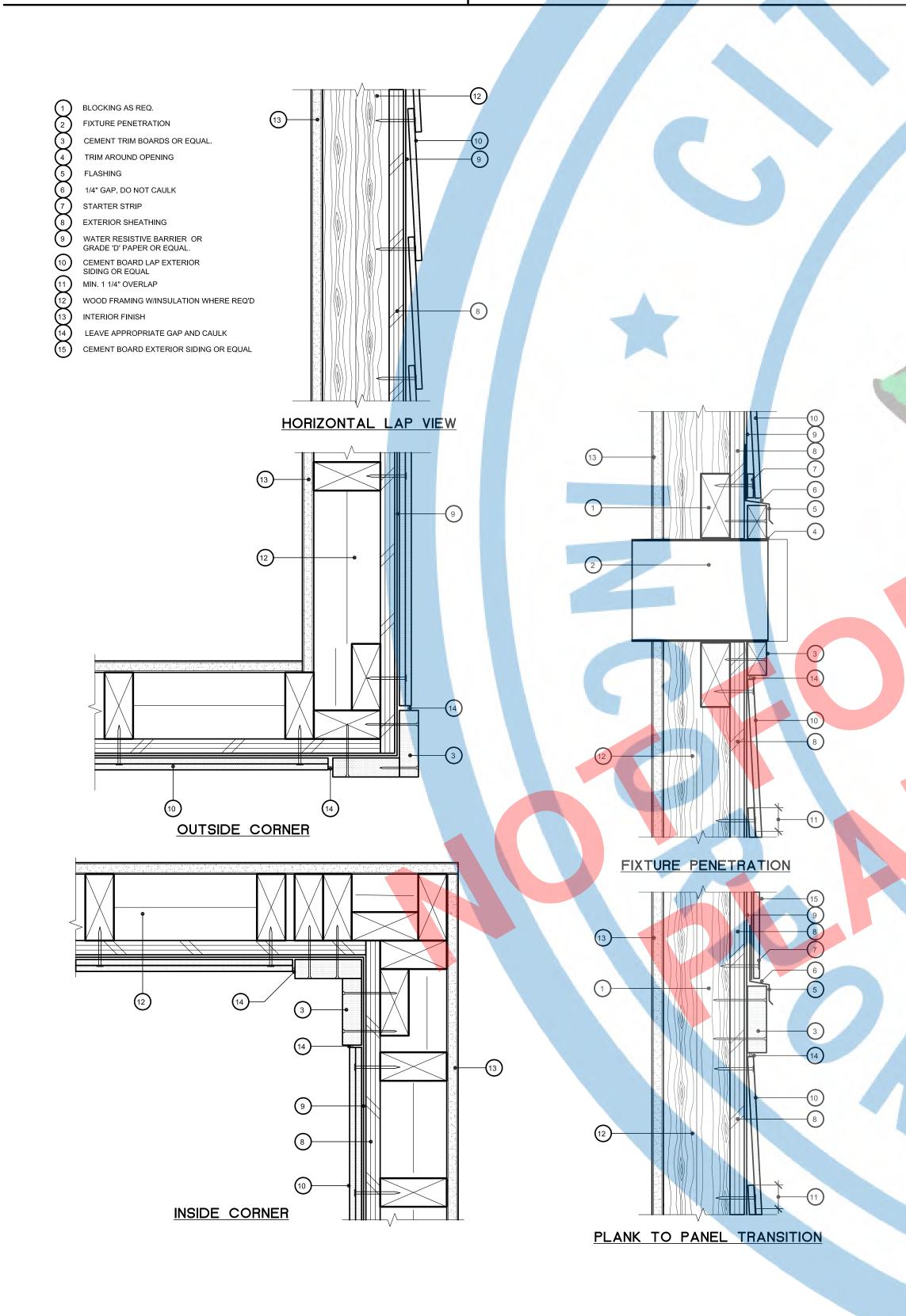


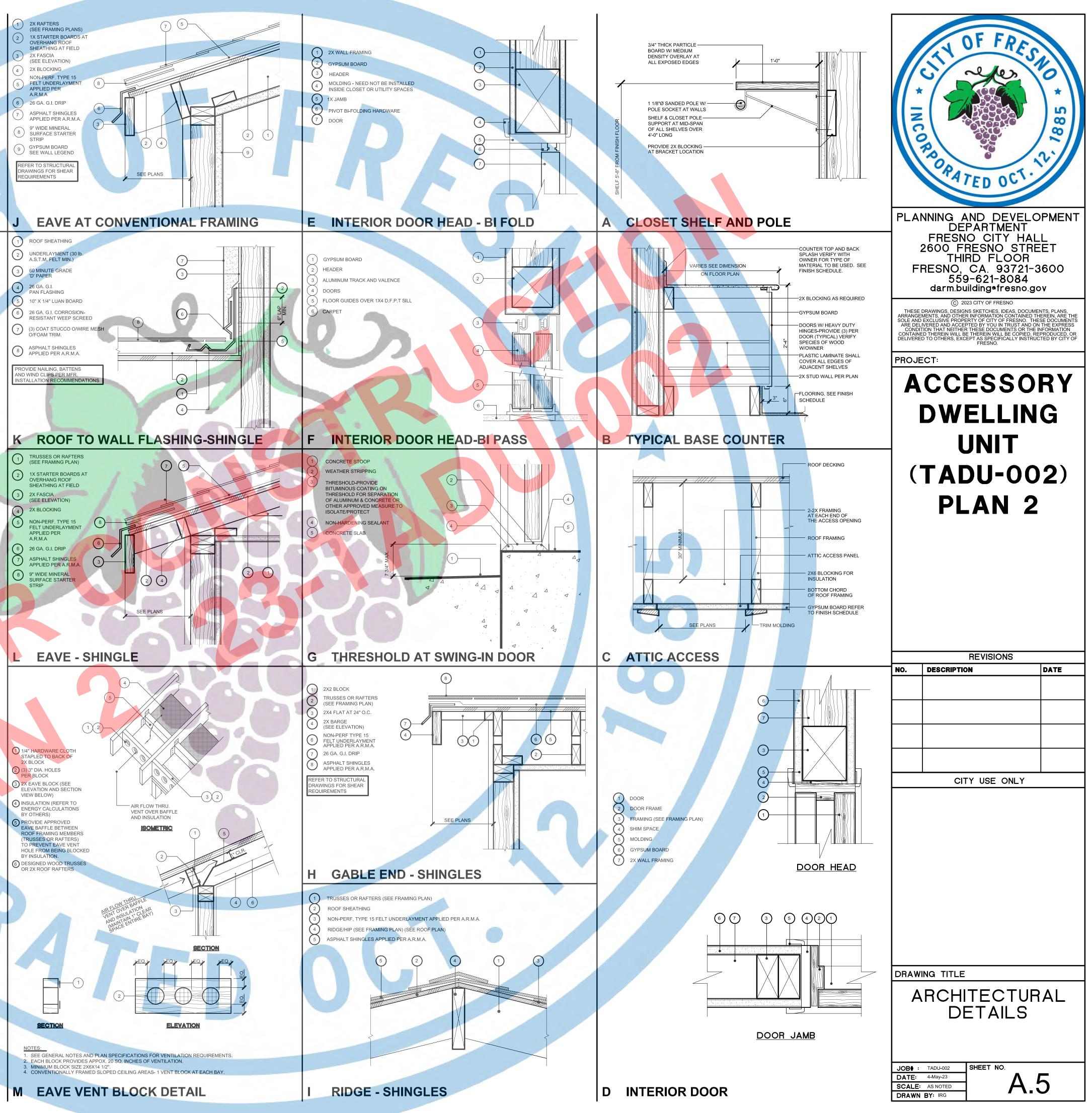
D WEEP SCREED AT CONCRETE SLAB

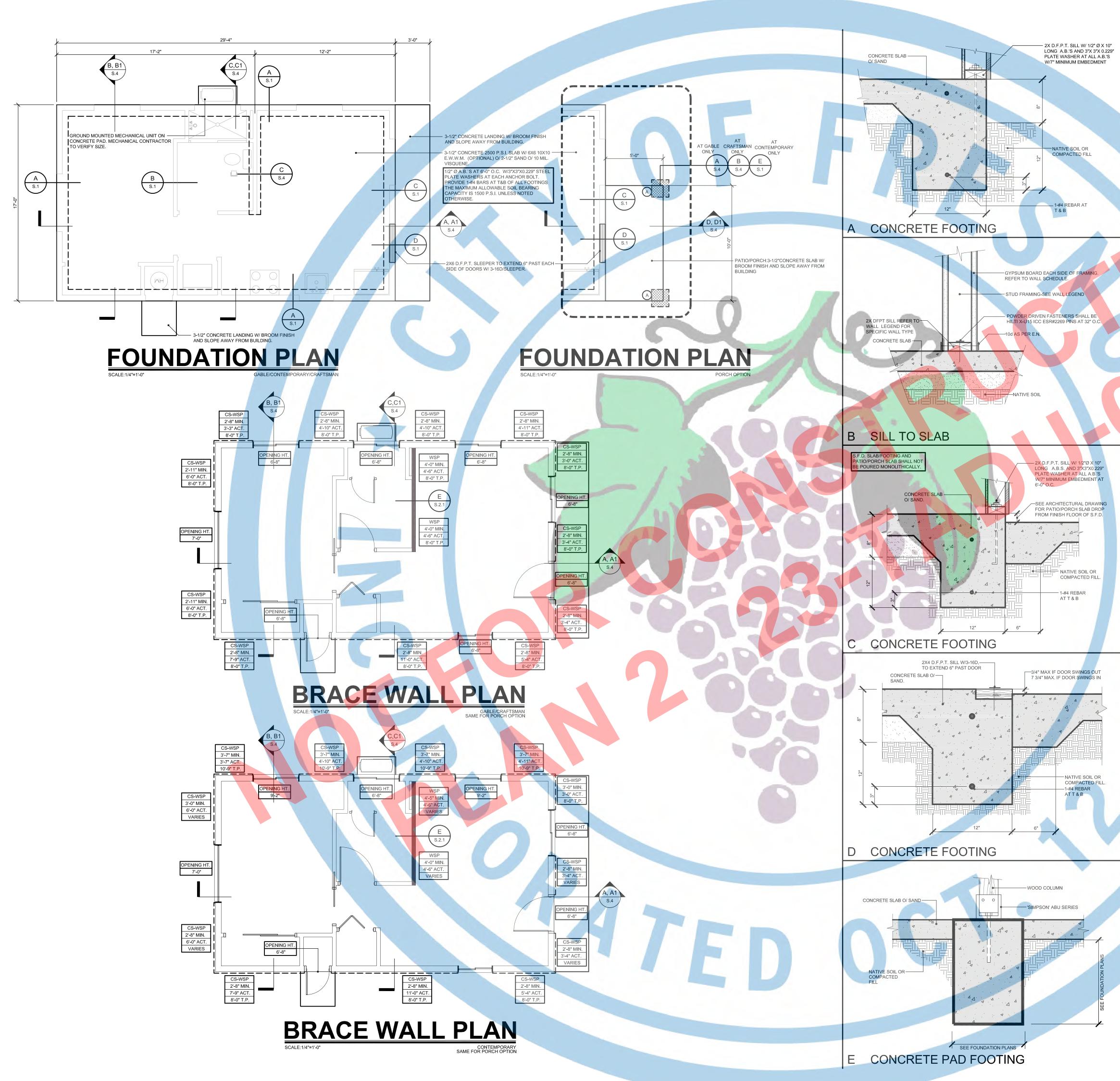












FOOTING SCHEDULE: REINFORCEMENT BARS DESCRIPTION DETAIL A 18"X18"X12" DEEP CONCRETE PAD FOOTING N/A E/S.1 FOUNDATION NOTES ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. FOUNDATIONS SHALL BE PLACED IN NATURALLY UNDISTURBED SOIL OR PROPERLY COMPACTED SOIL CAPABLE OF SUPPORTING 1500 PSE OR MORE. NOTIFY ARCHITECT WHEN SOIL CONDITIONS ARE UNSATISFACTORY. CONCRETE MIXES SHALL BE DESIGNED BY A TESTING LABORATORY APPROVED BY THE ENGINEER. MIXES SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS, REGARDLESS OF OTHER MINIMUM REQUIREMENTS SPECIFIED HEREIN OR ON THE DRAWINGS. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE USE. DESIGNS SHALL SHOW PROPORTIONS OF CEMENT, FINE AND COARSE AGGREGATES AND WATER, AND Z GRADUATION OF COMBINED AGGREGATES 00 WATER USED IN MIXING CONCRETE SHALL BE CLEAN AND FREE FROM INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALIS, C SALTS, ORGANIC MATERIALS OR OTHER SUBSTANCES THAT MAY BE DELETERIOUS TO CONCRETE OR 9 REINFORCEMENT. NONPOTABLE WATER SHALL NOT BE USED IN CONCRETE. 0 PLACE AND VIBRATE ALL CONCRETE AS REQUIRED TO ELIMINATE ALL VOIDS, POCKETS, ETC. AROUND FORMS, PD REINFORCING OR FASTENING DEVICES, ETC. REMOVE ALL LOOSE CONCRETE AND FILL HONEYCOMBED SURFACES STONE POCKETS AND OTHER IRREGULARITIES WITH CEMENT MORTARS, FLAT WORK SHALL BE FREE OF PUDDLES PROTECT ADJACENT SURFACES. TRUENESS OF ALL SLABS: ALL SLABS SHALL BE TRUE TO 1/4" IN 50 FEET AND SHALL HAVE NO SWALES LOCATE AND EXPOSE ALL PROPERTY CORNERS AND STRING THE SIDE YARD PROPERTY LINES PRIOR TO THE ATED OCT. FOUNDATION INSPECTION. TRENCHING OF GRADE BEAMS SHALL BE EXCAVATED IN ORDER TO PROVIDE THE BEAM CROSS SECTION INDICATED. BEAM AND SLAB DEPTHS AND WIDTHS AS INDICATED ARE MINIMUM ACCEPTABLE SIZES. LARGER SIZE BEAMS AND SLABS FORMED BY LESS ACCURATE TRENCHING MAY REQUIRE ADDITIONAL REINFORCING NOT SHOWN WHICH SHAL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION REVIEW. ALL LOOSE DIRT FROM SIDES AND BOTTOM OF TRENCHES SHALL BE REMOVED. HAUNCHES SHALL BE CUT ON EACH SIDE OF TRENCHES OF ADEQUATE SIZE TO MAINTAIN THE VERTICAL SIDES OF THE TRENCH PLANNING AND DEVELOPMENT CONCRETE SHALL BE DEPOSITED AS NEARLY AS PRACTICABLE IN ITS FINAL POSITION TO AVOID SEGREGATION DUE TO RE-HANDLING OR FLOWING. CONCRETE SHALL BE CARRIED ON AT SUCH A RATE THAT CONCRETE IS AT ALL TIMES DEPARTMENT LASTIC AND FLOWS READILY INTO SPACES BETWEEN REINFORCEMENT CONCRETE THAT HAS PARTIALLY RDENED OR BEEN CONTAMINATED BY FOREIGN MATERIAL SHALL NOT BE DEPOSITED IN THE STRUCTURE FRESNO CITY HALL REINFORCING STEEL, WIRE MESH, ANCHOR BOLTS, HOLDOWN ANCHORS, AND OTHER INSERTS SHALL BE IRED IN POSITION AND INSPECTED BY THE BUILDING OFFICIAL PRIOR TO PLACING CONCRETE 2600 FRESNO STREET K WITH OTHER TRADES AND BE SURE ALL UNDER SURFACE WORK IS COMPLETE. PROPERLY LOCATE ALL N<mark>SERTS</mark>, TIES, ANCHORS, BOLTS, DOWELS, BLOCKING, GROUNDS, VENTS ETC. BEFORE CONCRETE IS POURED. THIRD FLOOR ROPERLY WET DOWN ALL FORMS FORMS AND TAMP FILL. SET SCREED BOARD FOR ACCURATE GRADE, SUPPORT FRESNO, CA. 93721-3600 LL SPECIAL BOLTS, STRAPS, AND HOLDOWNS IN PLACE WITH RIGID SPACER FORMS. CONSTRUCT FORMS FROM 2" NOMINAL DOUGLAS FIR OR PLYWOOD AS REQUIRED TO SLOPE, LINE AND DIMENSIONS 559-621-8084 HOWN. FORMS SHALL BE PLUMB, STRAIGHT AND SUFFICIENTLY BRACED TO PREVENT MOVEMENT DURING THE POUR. REMOVE FORMS WITHOUT DAMAGING THE CONCRETE. darm.building@fresno.gov DO NOT PLACE CONCRETE UNTIL ALL REINFORCEMENT, CONDUIT OUTLET BOXES, ANCHORS, HANGERS, SLEEVES, BOLTS OR OTHER EMBEDDED MATERIALS AND ITEMS ARE SECURELY AND PROPERLY FASTENED IN THIER PROPER ACES AND POSITION SUBCON- TRACTOR SHALL VERIFY INSTALLATION OF HOLDOWN AND ANCHOR BOLTS, PA C 2023 CITY OF FRESNO STRAPS AND OTHER ANCHORAGE MATERIAL AND ITEMS PRIOR TO PLACEMENT OF CONCRETE. PROVIDE 1.#4 REBAR X 20' UFER GROUND EMBEDDED INTO CONCRETE FOOTING. COORDINATE LOCATION WITH THESE DRAWINGS, DESIGNS SKETCHES, IDEAS, DOCUMENTS, PLANS, ARRANGEMENTS, AND OTHER INFORMATION CONTAINED THEREIN, ARE THE SOLE AND EXCLUSIVE PROPERTY OF CITY OF FRESNO. THESE DOCUMENTS ARE DELIVERED AND ACCEPTED BY YOU IN TRUST AND ON THE EXPRESS CONDITION THAT NEITHER THESE DOCUMENTS OR THE INFORMATION CONTAINED THEREIN WILL BE THEREIN WILL BE COPIED, REPRODUCED, OR DELIVERED TO OTHERS, EXCEPT AS SPECIFICALLY INSTRUCTED BY CITY OF FRESNO. ELECTRICAL CONTRACTOR. PIPE MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN. SLEEVES SHALL BE WRAPPED WITH EXPANSION JOINT FILLER MATERIAL TO ALLOW CONCRETE TO CURE WITHOUT RESTRAINT. PIPES OR CONDUITS EXCEEDING ONE-THIRD THE WALL OR SLAB OR WALL THICKNESS SHALL NOT BE IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR OCATION OF SLEEVES, ACCESSORIES, ET PLUMBING LINES PASSING PERPENDICULAR THROUGH FOOTINGS SHALL BE SLEEVED WITH A 26 GAUGE G.I. SLEEVE **PROJECT**: MINIMUM SIZE ALLOWABLE TO RECEIVE PIPES. PLACE SLEEVES AS NEAR CENTER OF FOOTINGS AS POSSIBLE. USE #4 REBAR TOP AND BOTTOM 3'-0" LONG MINIMUM IN FOOTINGS WHICH HAVE PLUMBING LINES PASSING PERPENDICULAR BELOW. BACK FILL PIPES IN MOISTENED LAYERS NOT MORE THAN 6" THICK THOROUGHLY ACCESSORY .0A<mark>D BEAR</mark>ING FOO<mark>TINGS</mark> SHALL <mark>BE EXTENDED</mark> A MINIMUM OF 12" WIDE AND 12" BELOW UNDISTURBED SOIL OR AS OTHERWISE NOTED. FOUNDATION PLATES OR SILLS SHALL BE BOLTED TO THE FOUNDATION OR FOUNDATION WALL WITH NOT LESS THA 1/2" NOMINAL DIAMETER STEEL ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE CONCRETE OR MASONRY AND DWELLING PACED NOT MORE THAN 72" APART. ANCHOR BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD WIDTH OF THE SIL LATE. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PIECE WITH ONE BOLT LOCATED WITHIN 12" OF EACH END 3"X3"X0.229" STEEL WASHER TO BE INSTALLED ON EACH ANCHOR BOLT. THE PLATE WASHER MAY BE SLOTTED 3/16" LARGER THAN THE BOLT DIA. AND A SLOT LENGTH NOT MORE THAN 1 3/4". STANDARD CUT WASHER IS REQUIRED TO BE PLACED BETWEEN THE PLATE WASHER AND THE NUT. UNIT 20WDER DRIVEN FASTENERS AT INTERIOR NON-BEARING WALLS SHALL BE HILTI X-U15 ICC ESR#2269 PINS AT 32" O.C APPROVED 3/8" DIAMETER SHOT PINS WITH 2" DIAMETER CADMUIM WASHERS AT 32" O.C. MAXIMUM, 6" FROM CORNERS AND SPLICES POWDER DRIVEN FASTENERS SHALL NOT BE USED IN STEM WALLS LESS THAN 5 1/2" WIDE OR GREATER THAN 5 1/2 HIGH (**TADU-002**) PRESSURE TREATED SILL PLATE REQUIRES CONNECTORS TO BE HOT DIPPED GALVANIZED OR MECHANICALLY ZINC COATED. PRETREAT UNDER SLAB AREA WITH AN APPROVED SOLUTION FOR PROTECTING AGAINST TERMITES. INSTALL DAMPROOFING MEMBRANE UNDER ALL BUILDING SLABS AS SHOWN ON DRAWINGS. BASE SHALL HAVE BEEN LEVELED PRIOR TO INSTALLING VAPOR BARRIER. VAPOR BARRIER SHALL IN THE WIDEST PRACTICABLE WIDTH. ALL PLAN 2 JOINTS SHALL BE LAPPED NOT LESS THAN 6". PATCH ALL HOLES PRIOR TO PLACEMENT OF SAND COVER. TURN PAPER UP FOUNDATION WALLS WHERE SLAB AND FOOTINGS ARE MONOLITHICALLY POURED INTERIOR FLOOR SLABS SHALL BE STEEL TROWELED SMOOTH. EXTERIOR WALKS, SLABS, ETC. SHALL HAVE MEDIUM CONCRETE SHALL BE PROTECTED FROM THE INJURIOUS ACTION OF THE SUN, RAIN, WIND, FLOWING WATER FROST AND MECHANICAL INJURY, AND SHALL NOT BE ALLOWED TO DRY OUT PRIOR TO THE MINIMUM CURING PERIODS. TAK CARE NOT TO STAIN OR DISCOLOR FINISHED CONCRETE SURFACES, FOOTINGS-DAMP CURE 2 DAYS. SLABS- CAMP CURE 5 DAYS. A FINE WATER SPRAY SHALL BE USED T<mark>O RED</mark>UCED PLAS<mark>TIC SHRINKAGE CRACKS DURING FINISHIN</mark>G OPERATIONS IMMEDIATELY AFTER THE WET CONCRETE HAS BEEN BROUGHT TO A FLAT SURFACE AND THE SHINY SURFACE HAS DISAPPEARED. FREQUENT LIGHT APPLICATIONS OF MOISTURE SHALL BE PROVIDED AS REQUIRED BY WEATHER CONDITIONS, ALL SURFACES TO RECEIVE CONCRETE SHALL BE WETTED DOWN 24 HOURS IN ADVANCE OF POURING CONCRETE ON THESE SURFACES WATER SHALL BE NOT PERMITTED TO ACCUMULATE IN THE FOOTING EXCAVATIONS TRENCHES SHALL BE NO MORE THAN MOIST AT THE TIME OF POURING THE EXTE<mark>RIOR FLATWOR</mark>K SHO<mark>ULD B</mark>E POURED SEPA<mark>RATEL</mark>Y IN ORDER TO ACT INDEPENDENTLY OF THE WALLS AND FOUNTAIN SYSTEM. SEE DESIGNER PLANS FOR EXTERIOR FLATWORK INFORMATION ELEVATE POST BASES AT LOCATIONS SUBJECT TO WATER SPLASH OR WEATHER EXPOSURE BRACED WALL LEGEND CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL - SHEATHING WITH A THICKNESS NOT LESS THAN 3/8 NCH APA-RATED SHEATHING FOR 24" STUD SPACING WITH 8d COMMON OR GALVANIZED BOX NAILS SPACED CS-WSP 6" ON CENTER AT SHEATHING PANEL EDGES AND 12" ON CENTER IN THE FIELD. BRACED WALL INSPECTIONS REQUIRED PRIOR TO COVERING. EXTERIOR BRACED WALL PANELS SHALL EXTEND TO TOP PLATE OR ROOF RAMING(GABLE END CONDITIONS). WOOD STRUCTURAL PANEL - SHEATHING WITH A THICKNESS NOT LESS THAN 3/8 INCH APA-RATED SHEATHING FOR 24" STUD SPACING WITH 6d COMMON OR GALVANIZED BOX NAILS SPACED 6" ON CENTER AT WSP SHEATHING PANEL EDGES AND 12" ON CENTER IN THE FIELD. BRACED WALL INSPECTIONS REQUIRED PRIOR TO COVERING. EXTERIOR BRACED WALL PANELS SHALL EXTEND TO TOP PLATE OR ROOF FRAMING(GABLE REVISIONS END CONDITIONS) DATE DESCRIPTION BRACED WALL SYMBO ADJACENT CLEAR OPENING HEIGHT (INCHES) NO. CS-WSP MINIMUM BRACED WALL LENGTH OPENING HT. RUSS FRAMING OPTION FOR GABLE & CRAFTSMA 6'-8" LECTRIC HEAT PUMP WATER HEATER 08/09/23 **REQUIRED PER CRC SECTION R602.1** - REDUCE SQUARE FOOTAGE FROM 510 SF TO 499 SF - BRACED WALL LENGTH PROVIDED X'_X"® X'-X"® -WALL HEIGHT PLYWOOD SHEET USED IN THE CONSTRUCTION OF BRACE WALLS SHALL BE NOT LESS THAN 4'X8' IN SIZE. A. MINIMUM SIZE SHEET AT BOUNDARIES AND CHANGES IN FRAMING SHALL BE 24", UNLESS BLOCKED. NAIL SIZE, SPACING, AND TYPE PER ABOVE UNLESS NOTED OTHE WOOD SHEATHING WALL BRACING METHOD: WOOD STRUCTURAL PANEL MUST BE A MINIMUM OF 48 INCHES LONG. WOOD STRUCTURAL PANEL SHALL BEGIN WITHIN 10 FEET FROM EACH END OF A BRACE WALL LINES. THE DISTANCE BETWEEN ADJACENT EDGES OF BRACED WALL PANELS ALONG A BRACE WALL LINE SHALL BE NOT GREATER THAN 20 FEET. WOOD STRUCTURAL PANEL SHEATHING TO BE USED ON ONE SIDE OF A BRACED WALL AND GABLE END WALLS WHERE SPECIFIED ON PLANS. ALL VERTICAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER THE STUDS; ALL HORIZONTAL PANEL JOINTS SHALL OCCUR OVER BLOCKING AT LEAST 1 1/2 INCHES THICK. CITY USE ONLY CONTINUOUS SHEATHING WALL BRACING METHOD: CONTINUOUS SHEATHING METHODS REQUIRE STRUCTURAL PANEL SHEATHING TO BE USED ON ALL SHEATHABLE SURFACES ON ONE SIDE OF A BRACED WALL LINE AND GABLE END WALLS. AREA ABOVE AND BELOW OPENINGS SHALL BE FULLY SHEATHED WITH A MINIMUM OF 3/8 INCH APA-RATED HEATHING STRUCTURAL PANEL SHEATHIN FULL HEIGHT SHEATHED WALL SEGMENTS HAVING A WIDTH EQUAL OR GREATER THAN TABLE BELOW ARE COUNTED TOWARD THE TOTAL BRACING LENGTH. WALL MINIMUM LENGTH IS BASED ON WALL HEIGHT AND HEIGHT OF THE ADJACENT CLEAR OPENING. CONTINUOUS SHEATHING WOOD STRUCTURAL PANEL SHALL HAVE CORNER RETURN LENGTH ON BOTH SIDES OF CORNER (24 INCH MINIMUM). WALL LEGEND: DESCRIPTION SYMBO ----CONTINUOUS SHEATHING BRACED WALLS: SEE BRACED WALL PLAN FOR ADDITIONAL INFORMATION. WOOD STRUCTURAL PANEL BRACED WALLS: EE BRACED WALL PLAN FOR ADDITIONAL INFORMATION.

WALL FRAMING NOTES:

- PROVIDE CONTINUOUS STUDS AT ALL LOCATIONS WHERE THERE IS NO LATERAL SUPPORT AT 8' PLATE HEIGHT. FINGER JOINTED STUDS IN STRUCTURAL WALLS(BEARING OR SHEAR) MUST BE GRADE STAMPED BY AN APPROVED ICC INSPECTION AGENCY AND CLEARLY SPECIFIED ON PLANS, AND ARE NOT ALLOWED AT HOLDOWN LOCATIONS. ALL LUMBER SHALL BE GRADE MARKED, DOUGLAS FIR STANDARD OR BETTER MINIMUM EXCEPT AS NOTED ON PLANS. ALL COLUMNS TO BE DOUGLAS FIR NO.2 IN COMBUSTIBLE CONSTRUCTION, FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT
- OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. (R 302.11) PROVIDE FIRE BLOCKING AT THE 10-FOOT INTERVALS AND AT ALL FLOOR AND CEILING LEVELS.

DRAWING TITLE:

DATE: 25-Sep-23

SCALE: AS NOTED

DRAWN BY: IRG

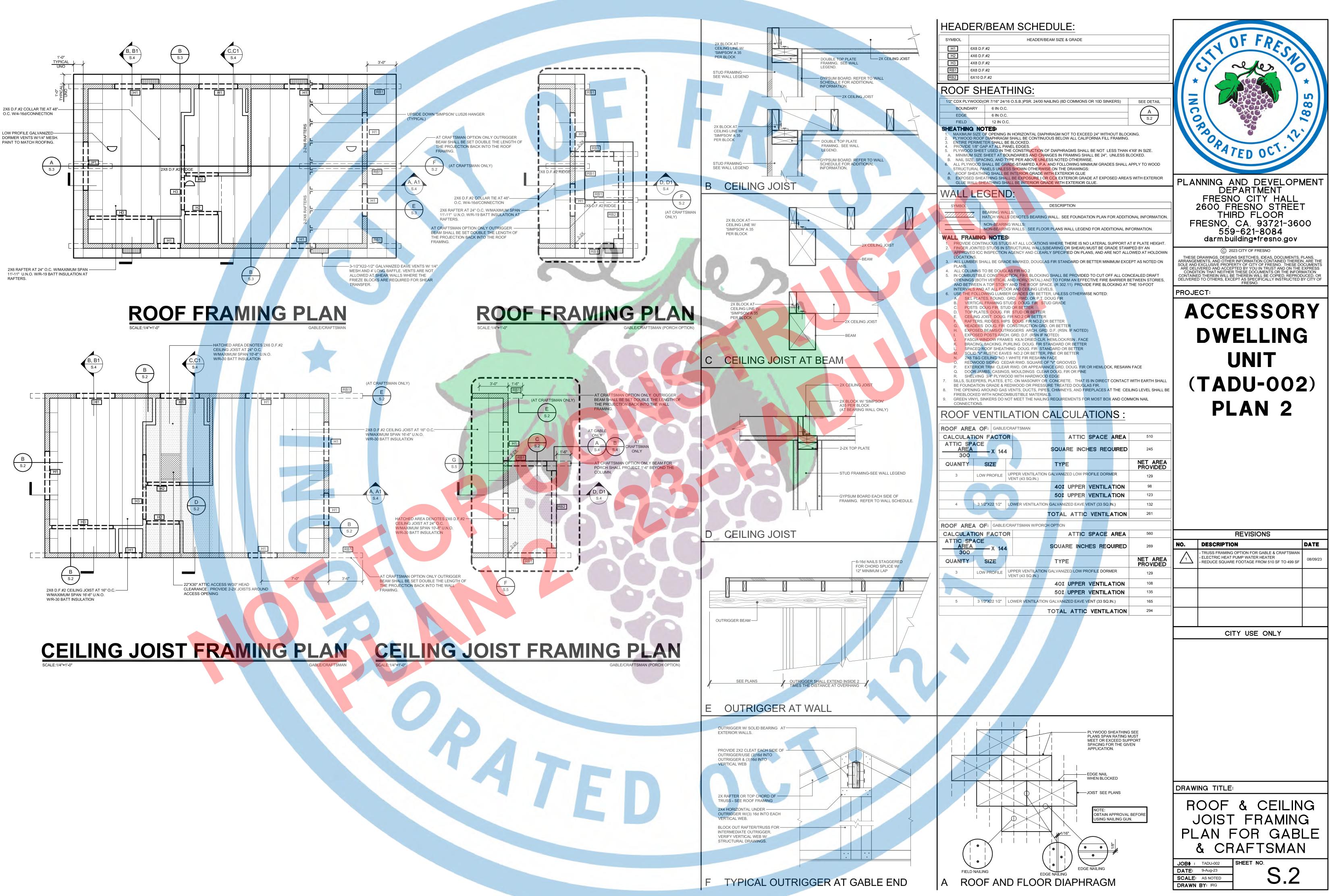
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FOUNDATION PLAN & BRACE WALL FRAMING PLAN

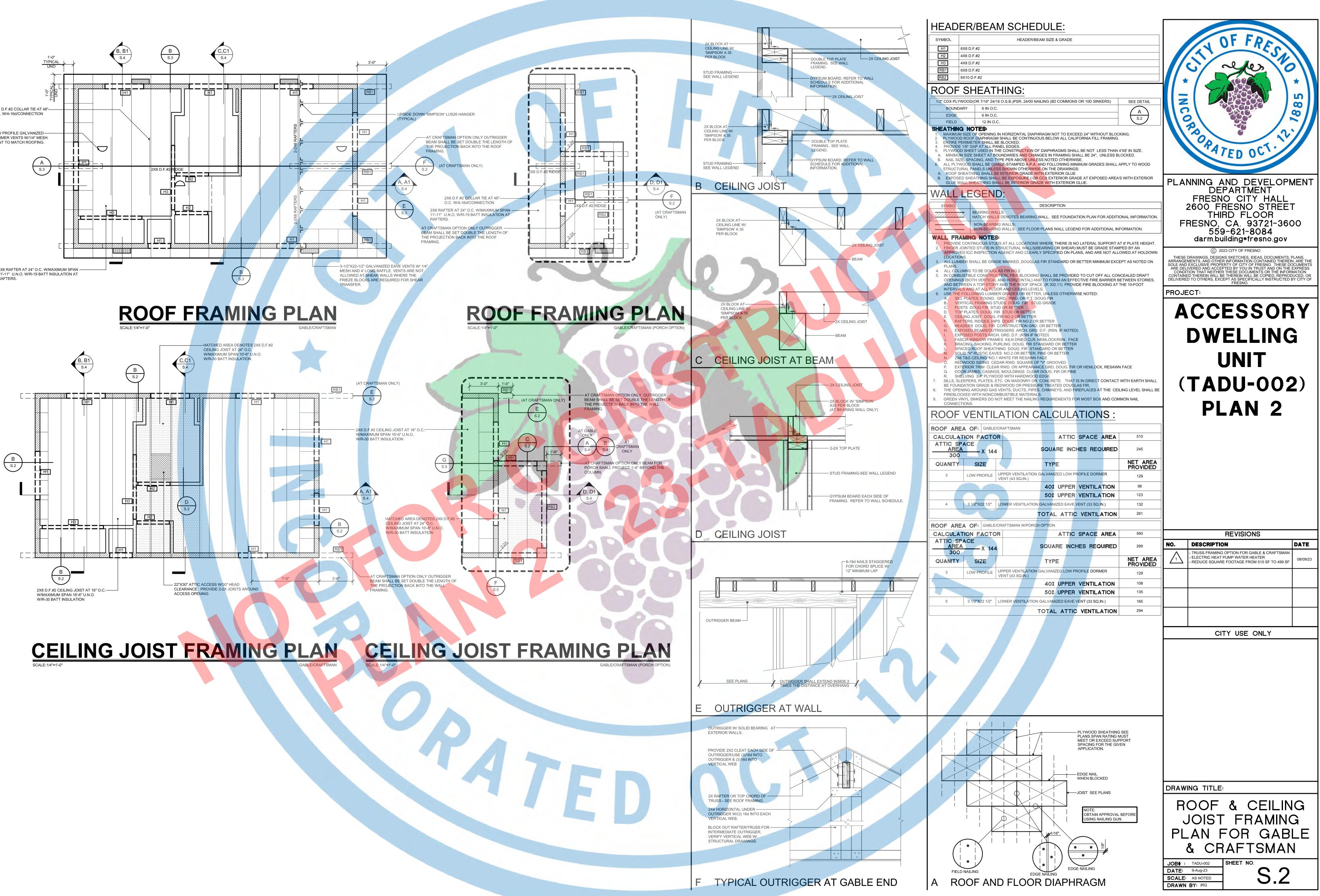
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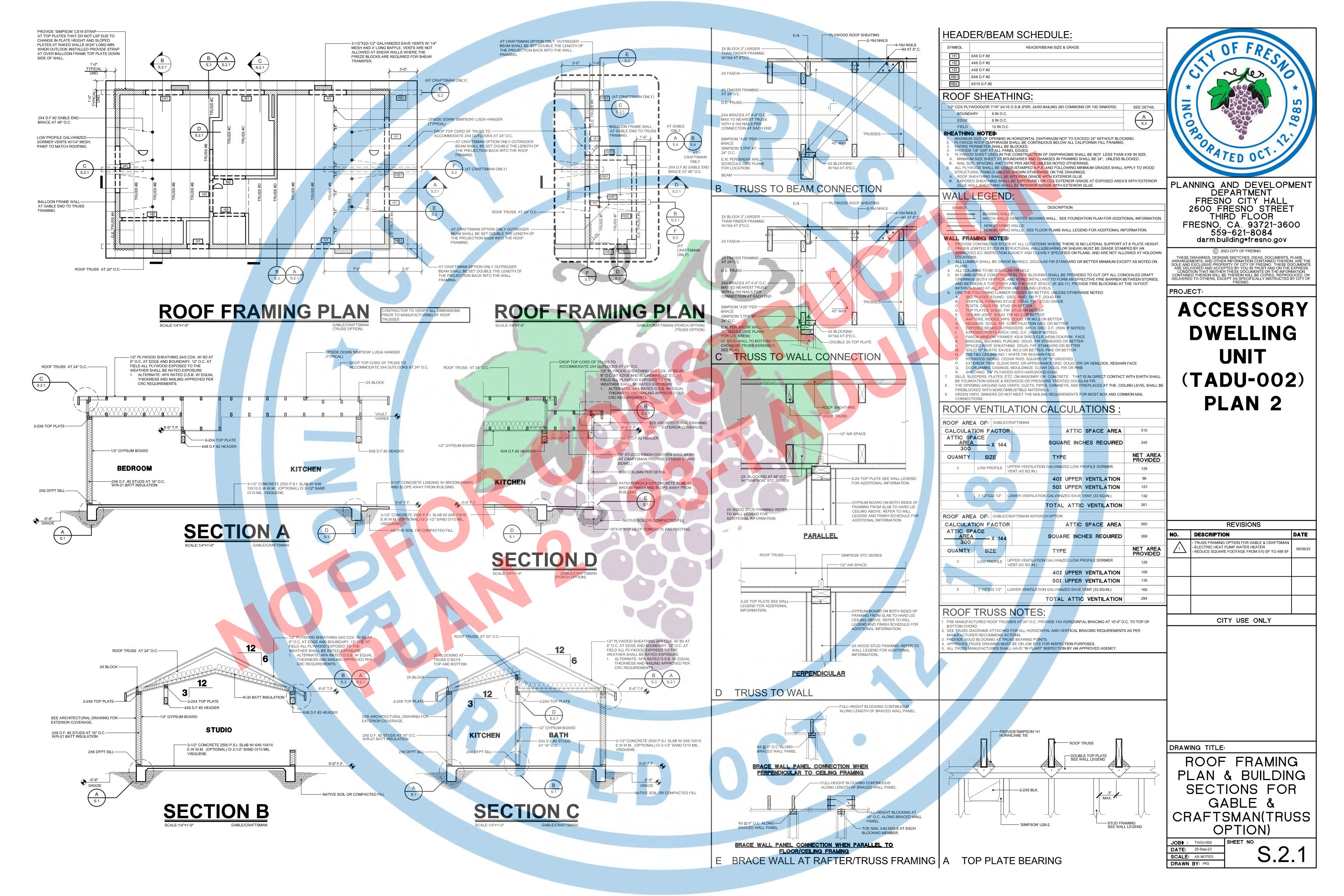
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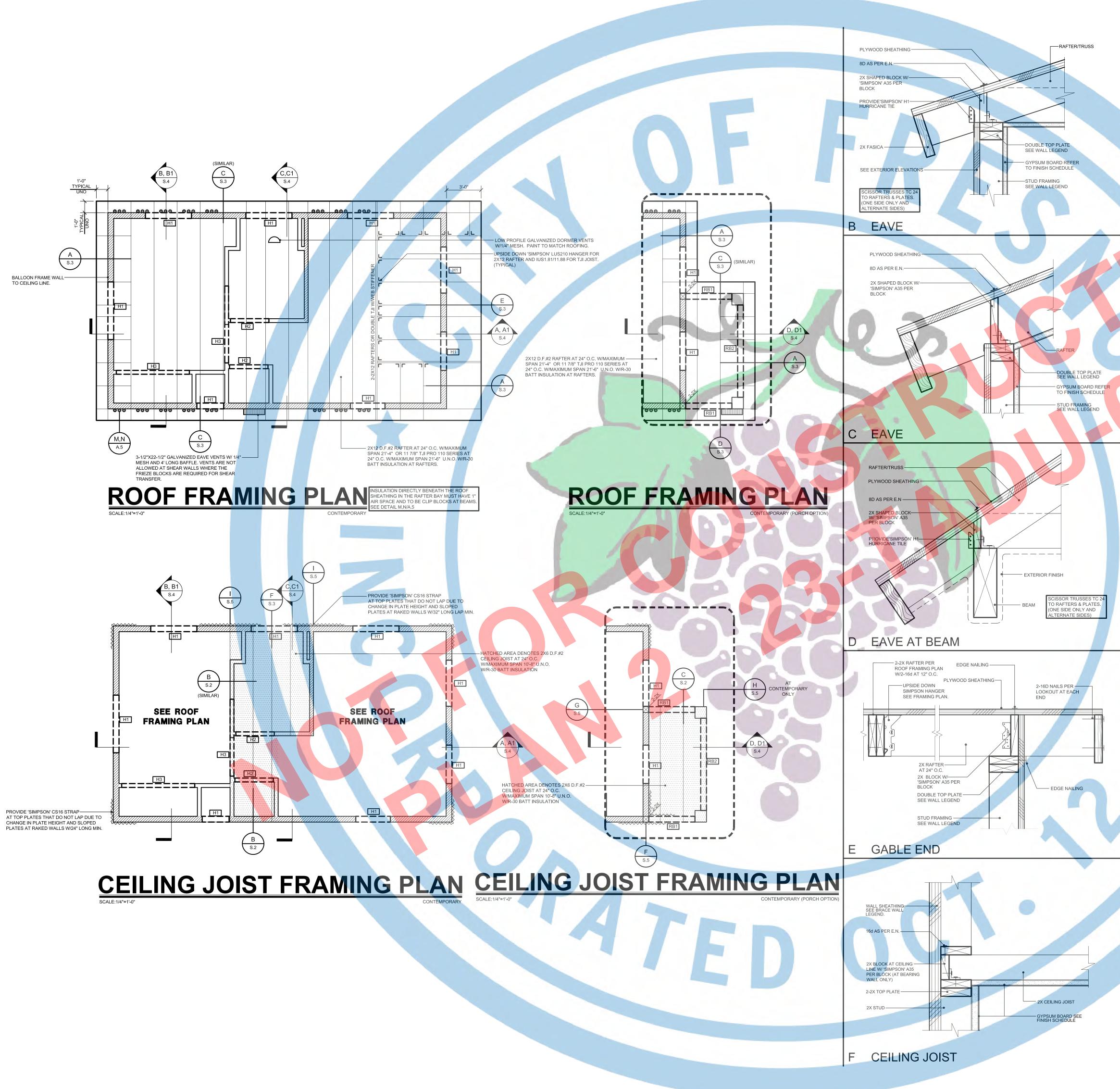
- USE THE FOLLOWING LUMBER GRADES OR BETTER, UNLESS OTHERWISE NOTED: A. SILL PLATES, FOUND. GRD. RWD. OR P.T. DOUG FIR B. VERTICAL FRAMING STUDS DOUG. FIR STUD GRADE
- C. POSTS DOUG FIR STUD OR BETTER D. TOP PLATES DOUG FIR STUD OR BETTER
- CEILING JOIST DOUG. FIR NO.2 OR BETTER RAFTERS, RIDGES, HIPS DOUG. FIR NO.2 OR BETTER HEADERS DOUG. FIR CONSTRUCTION GRD. OR BETTER
- EXPOSED BEAMS/OUTRIGGERS ARCH. GRD. D.F. (RSN. IF NOTED) EXPOSED POSTS ARCH. GRD. D.F. (RSN IF NOTED) FASCIA WINDOW FRAMES, KILN DRIED CLR. HEMLOCK/RSN. FACE
- BRACING, BACKING, PURLING DOUG, FIR STANDARD OR BETTER SPACED ROOF SHEATHING DOUG, FIR STANDARD OR BETTER
- I. SOLID "V" RUSTIC EAVES NO.2 OR BETTER, PINE OR BETTER 2X6 T&G CEILING NO.1 WHITE FIR RESAWN FACE REDWOOD SIDING CEDAR RWD. SQUARE OF "V" GROOVED
- P. EXTERIOR TRIM CLEAR RWD. OR APPEARANCE GRD. DOUG. FIR OR HEMLOCK, RESAWN FACE
 DOOR JAMBS, CASINGS, MOULDINGS CLEAR DOUG. FIR OR PINE
- R. SHELVING 3/4" PLYWOOD WITH HARDWOOD EDGE SILLS, SLEEPERS, PLATES, ETC. ON MASONRY OR CONCRETE. THAT IS IN DIRECT CONTACT WITH EARTH SHALL BE FOUNDATION GRADE & REDWOOD OR PRESSURE TREATED DOUGLAS FIR. THE OPENING AROUND GAS VENTS, DUCTS, PIPES, CHIMNEYS, AND FIREPLACES AT THE CEILING LEVEL SHALL BE FIREBLOCKED WITH NONCOMBUSTIBLE MATERIALS.
- FIREBLOCKED WITH NONCOMBUSTIBLE MATERIALS. GREEN VINYL SINKERS DO NOT MEET THE NAILING REQUIREMENTS FOR MOST BOX AND COMMON NAIL CONNECTIONS.



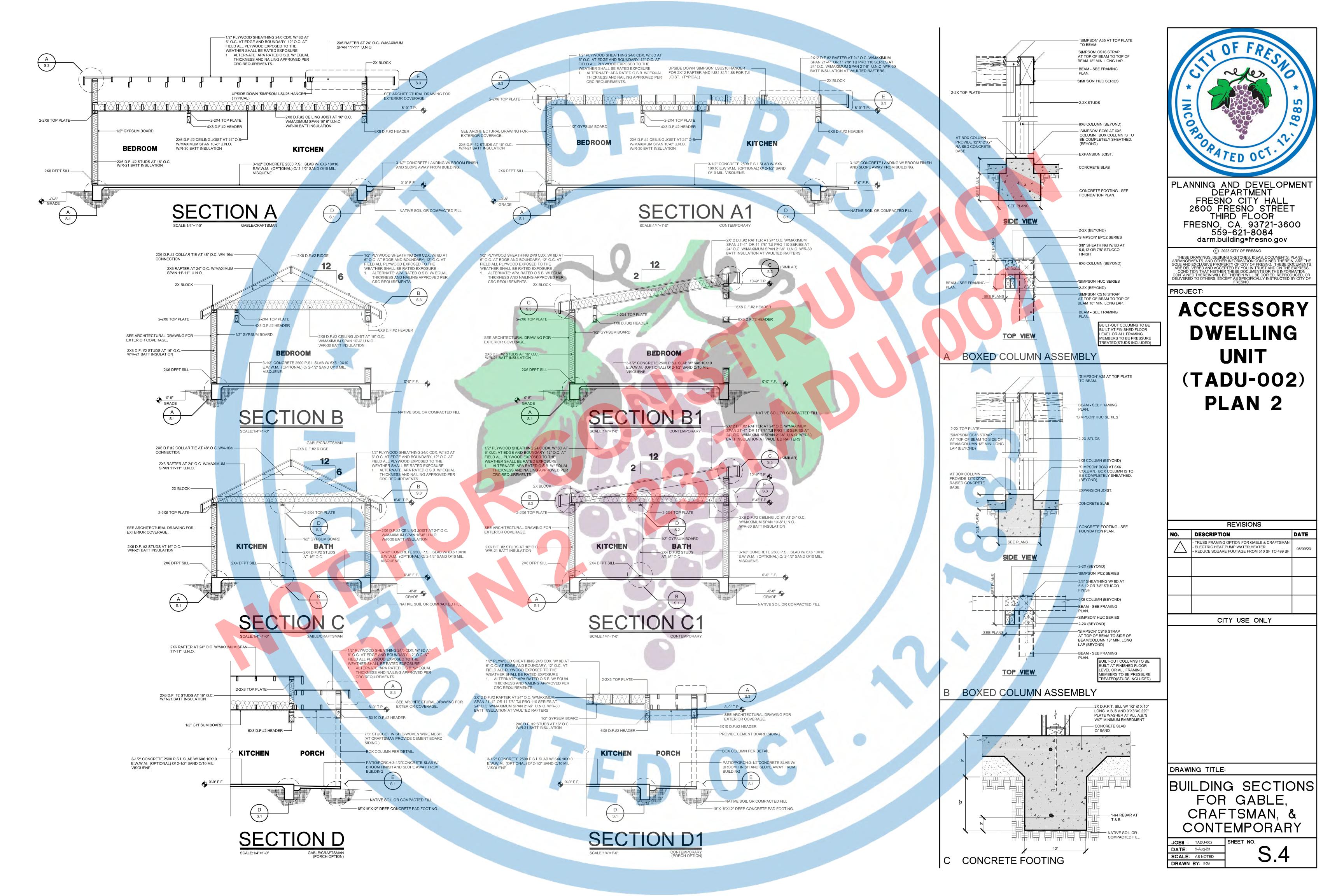


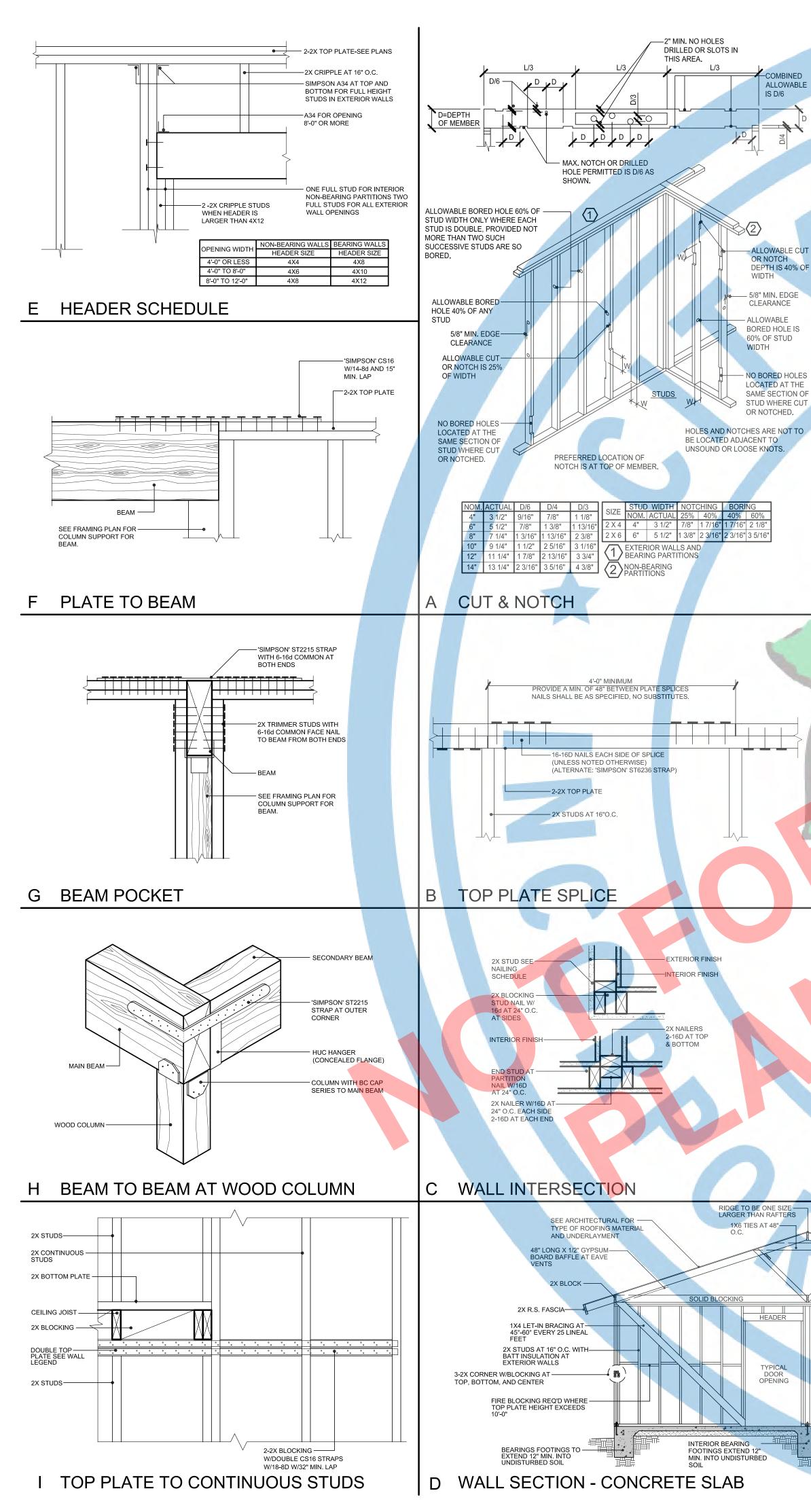






HEADER/BEAM SCHEDULE:		
SYMBOL HEADER/BEAM SIZE & GRADE H1 6X8 D.F.#2		NOF FRES
H2 4X6 D.F.#2		SA SA
H3 4X8 D.F.#2 RB1 6X8 D.F.#2		i refer o
ROOF SHEATHING: 1/2" CDX PLYWOOD(OR 7/16" 24/16 O.S.B.)PSR. 24/00 NAILING (8D COMMONS OR 10D SINKERS)	SEE DETAIL	
BOUNDARY 6 IN O.C. EDGE 6 IN O.C.	A	
FIELD 12 IN O.C. SHEATHING NOTES:	S.2	
 MAXIMUM SIZE OF OPENING IN HORIZONTAL DIAPHRAGM NOT TO EXCEED 24" WITHOUT BLOCKIN PLYWOOD ROOF DIAPHRAGM SHALL BE CONTINUOUS BELOW ALL CALIFORNIA FILL FRAMING. ENTIRE PERIMETER SHALL BE BLOCKED. 	NG.	NOD NY
 PROVIDE 18" GAP AT ALL PANEL EDGES. PLYWOOD SHEET USED IN THE CONSTRUCTION OF DIAPHRAGMS SHALL BE NOT LESS THAN 4'X MINIMUM SIZE SHEET AT BOUNDARIES AND CHANGES IN FRAMING SHALL BE 24", UNLESS BLOG NAIL SIZE. SPACING, AND TYPE PER ABOVE UNLESS NOTED OTHERWISE. 		ORATED OCT.
 ALL PLYWOOD SHALL BE GRADE-STAMPED A.P.A. AND FOLLOWING MINIMUM GRADES SHALL API STRUCTURAL PANELS UNLESS SHOWN OTHERWISE ON THE DRAWINGS: A. ROOF SHEATHING SHALL BE INTERIOR GRADE WITH EXTERIOR GLUE 	PLY TO WOOD	
 B. EXPOSED SHEATHING SHALL BE INTERIOR GRADE I OR CCX EXTERIOR GRADE AT EXPOSED AREA'S V GLUE WALL SHEATHING SHALL BE INTERIOR GRADE WITH EXTERIOR GLUE. 	WITH EXTERIOR	PLANNING AND DEVELOPMENT
- WALL LEGEND:		DEPARTMENT FRESNO CITY HALL
SYMBOL DESCRIPTION BEARING WALLS: HATCH WALLS DENOTES BEARING WALL. SEE FOUNDATION PLAN FOR ADDITION		2600 FRESNO STREET
NON-BEARING WALLS: NON-BEARING WALLS: NON-BEARING WALLS: NON-BEARING WALLS. SEE FLOOR PLANS WALL LEGEND FOR ADDITIONAL INFO		FRESNO, CA. 93721-3600 559-621-8084
WALL FRAMING NOTES: 1. PROVIDE CONTINUOUS STUDS AT ALL LOCATIONS WHERE THERE IS NO LATERAL SUPPORT AT 8	3' PLATE HEIGHT.	darm.building@fresno.gov
2. FINGER JOINTED STUDS IN STRUCTURAL WALLS(BEARING OR SHEAR) MUST BE GRADE STAMPE APPROVED ICC INSPECTION AGENCY AND CLEARLY SPECIFIED ON PLANS, AND ARE NOT ALLOW LOCATIONS.	VED AT HOLDOWN	C 2023 CITY OF FRESNO THESE DRAWINGS, DESIGNS SKETCHES, IDEAS, DOCUMENTS, PLANS,
 ALL LUMBER SHALL BE GRADE MARKED, DOUGLAS FIR STANDARD OR BETTER MINIMUM EXCEPTION PLANS. ALL COLUMNS TO BE DOUGLAS FIR NO.2 		ARRANGEMENTS, AND OTHER INFORMATION CONTAINED THEREIN, ARE THE SOLE AND EXCLUSIVE PROPERTY OF CITY OF FRESNO. THESE DOCUMENTS ARE DELIVERED AND ACCEPTED BY YOU IN TRUST AND ON THE EXPRESS CONDITION THAT NEITHER THESE DOCUMENTS OR THE INFORMATION
 IN COMBUSTIBLE CONSTRUCTION, FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCE OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BET AND BETWEEN A TOP STORY AND THE ROOF SPACE. (R 302.11) PROVIDE FIRE BLOCKING AT TH 	WEEN STORIES,	CONTAINED THEREIN WILL BE THEREIN WILL BE COPIED, REPRODUCED, OR DELIVERED TO OTHERS, EXCEPT AS SPECIFICALLY INSTRUCTED BY CITY OF FRESNO.
 INTERVALS AND AT ALL FLOOR AND CEILING LEVELS. USE THE FOLLOWING LUMBER GRADES OR BETTER, UNLESS OTHERWISE NOTED: A. SILL PLATES, FOUND. GRD. RWD. OR P.T. DOUG FIR B. VERTICAL FRAMING STUDS DOUG. FIR STUD GRADE 		PROJECT:
B. VERTICAL FRAMING STUDS DOUG, FIR STUD GRADE C. POSTS DOUG FIR STUD OR BETTER D. TOP PLATES DOUG, FIR STUD OR BETTER E. CEILING JOIST DOUG, FIR NO.2 OR BETTER		ACCESSORY
F. RAFTERS, RIDGES, HIPS DOUG. FIR NO.2 OR BETTER G. HEADERS DOUG. FIR CONSTRUCTION GRD. OR BETTER H. EXPOSED BEAMS/OUTRIGGERS ARCH. GRD. D.F. (RSN. IF NOTED)		
I. EXPOSED POSTS ARCH. GRD. D.F. (RSN IF NOTED) J. FASCIA WINDOW FRAMES KILN DRIED CLR. HEMLOCK/RSN . FACE K. BRACING, BACKING, PURLING DOUG. FIR STANDARD OR BETTER		DWELLING
L. SPACED ROOF SHEATHING DOUG. FIR STANDARD OR BETTER M. SOLID "V" RUSTIC EAVES NO.2 OR BETTER, PINE OR BETTER N. 2X6 T&G CEILING NO.1 WHITE FIR RESAWN FACE		UNIT
 REDWOOD SIDING CEDAR RWD. SQUARE OF "V" GROOVED EXTERIOR TRIM CLEAR RWD. OR APPEARANCE GRD. DOUG. FIR OR HEMLOCK, RESAWN F. DOOR JAMBS, CASINGS, MOULDINGS CLEAR DOUG. FIR OR PINE 	ACE	
 R. SHELVING 3/4" PLYWOOD WITH HARDWOOD EDGE 7. SILLS, SLEEPERS, PLATES, ETC. ON MASONRY OR CONCRETE. THAT IS IN DIRECT CONTACT WI BE FOUNDATION GRADE & REDWOOD OR PRESSURE TREATED DOUGLAS FIR. 8. THE OPENING AROUND GAS VENTS, DUCTS, PIPES, CHIMNEYS, AND FIREPLACES AT THE CEILIN 		(TADU-002)
 FIREBLOCKED WITH NONCOMBUSTIBLE MATERIALS. GREEN VINYL SINKERS DO NOT MEET THE NAILING REQUIREMENTS FOR MOST BOX AND COMMO CONNECTIONS. 		
ROOF VENTILATION CALCULATIONS :		PLAN 2
ROOF AREA OF: CONTEMPORARY AT VAULTED CEILING		
CALCULATION FACTOR ENCLOSED RAFTER BAY AREA ENCLOSED RAFTER BAY AREA x 144 SQUARE INCHES REQUIRED	34 32.6 PER	
BAY AREA X 144 SQUARE INCHES REQUIRED 150 QUANITY TYPE	RAFTER BAY	
6 TOTAL (3 PER BAY) PER HOLE - APPROXIMATE 20 SQUARE INCHES PER BAY)	40.2	
2 TOTAL (1 PER BAY) AT TJI FRAMING 1 SQUARE HOLE AT BLOCKING AT BOTH ENDS RAFTER BAYS (1/3 X 1/3 OF BLOCKING - APPROXIMATE 25 SQUARE INCHES PER BAY)	50.0	
TOTAL VENTILATION PER RAFTER BAY 4 ROOF AREA OF: CONTEMPORARY AT ATTIC SPACE	40.2 (AT RAFTERS) 50.0 (AT TJI)	
CALCULATION FACTOR ATTIC SPACE AREA	100	
AREA X 144 SQUARE INCHES REQUIRED	48	REVISIONS
QUANITY SIZE TYPE	NET AREA PROVIDED	NO. DESCRIPTION DATE
1 LOW PROFILE UPPER VENTILATION GALVANIZED LOW PROFILE DORMER VENT (43 SQ.IN.) 40% UPPER VENTILATION	43	- TRUSS FRAMING OPTION FOR GABLE & CRAFTSMAN - ELECTRIC HEAT PUMP WATER HEATER - REDUCE SQUARE FOOTAGE FROM 510 SF TO 499 SF
50% UPPER VENTILATION	55	
1 3 1/2"X22 1/2" LOWER VENTILATION GALVANIZED EAVE VENT (33 SQ.IN.) TOTAL ATTIC VENTILATION	33 76	├ ── ├ ──
ROOF AREA OF: CONTEMPORARY AT ATTIC SPACE W/PORCH OPTION		
CALCULATION FACTOR ATTIC SPACE AREA ATTIC SPACE SOLIABE INCHES BEOLIBED	150 72	
AREA X 144 SQUARE INCHES REQUIRED	NET AREA	CITY USE ONLY
QUANITY SIZE TYPE 1 LOW PROFILE UPPER VENTILATION GALVANIZED LOW PROFILE DORMER VENT (43 SQ.IN.)	PROVIDED 43	
40% UPPER VENTILATION	43	
2 3 1/2"X22 1/2" LOWER VENTILATION GALVANIZED EAVE VENT (33 SQ.IN.)	55 66	
	109	
ROOF VENTILATION NOTES : 1. MIN. 1" AIR SPACE BETWEEN INSULATION AND ROOF SHEATHING. WHERE EAVE OR CORNICE VENTS SPECIFY 4' LONG BAFFLES MINIMUM. (CRC SECTION R806.3)	S ARE INSTALLED,	
EDGE NAILING		1
2X BLOCKING W/		
16d AT 6" O.C. PLYWOOD SHEATHING 2-16D NAILS PER		
	5 1	
16d NAILS AT 6" O.C. (FLAT) AT 24" O.C.		
2X RAFTER EDGE NAILING		ROOF & CEILING
DOUBLE TOP PLATE		JOIST FRAMING
		PLAN FOR
		CONTEMPORARY
		JOB# TADU-002 SHEET NO. DATE: 9-Aug-23 C C
A GABLE END		DATE: 9-Aug-23 SCALE: AS NOTED DRAWN BY: IRG





ROUGH CARPENTRY NOTES:

ALL LUMBER GRADE MARKS SHALL BE IN ACCORDANCE WITH PROVISIONS OF "WOOD HANDBOOK OF FOREST PRODU LABORATORY" U.S. DEPARTMENT OF AGRICULTURE FOR SOFTWOOD DIMENSION AND TIMBERS ALL LUMBER S4S UNLESS

TANDARD GRADING AND DRESSING RULES #16 OF WEST COAST INSPECTION BUREAU (WCIB) LUMBER SHALL BE SURFACED M ALL FOUR SIDES, UNLESS OTHER SURFACING IS INDICATED ON DRAWINGS. LUMBER SHALL HAVE BEEN AIR SEASONED FOR OT LESS THAN 30 DAYS MOISTURE CONTENT SHALL NOT EXCEED EIGHTEEN PERCENT(18%) WHEN INCORPORATED INTO THE NORK. MATERIAL SHALL BE KILN DRIED WHEN SPECIFICALLY NOTED OR WHEN COMMON PRACTICE OF THE INDUSTRY EQUIRES SUCH PROCEDURE. NOOD STRUCTURAL PANELS SHALL BE GRADED ACCORDINGLY TO THE AMERICAN PLYWOOD ASSOCIATION. JSE THE FOLLOWING LUMBER GRADES OR BETTER, UNLESS OTHERWISE NOTED: SILL PLATES FOUND. GRD. RWD. OR P.T. DOUG FIR. VERTICAL FRAMING STUDS DOUG. FIR STUD GRADE. POSTS DOUG FIR STUD OR BETTER TOP PLATES DOUG. FIR STUD OR BETTER. CEILING JOIST DOUG. FIR NO.2 OR BETTER. RAFTERS, RIDGES, HIPS DOUG. FIR NO.2 OR BETTE HEADERS DOUG. FIR CONSTRUCTION GRD. OR BETTER EXPOSED BEAMS/OUTRIGGERS ARCH. GRD. D.F. (RSN. IF NOTED)

SPECIFICALLY SHOWN OTHERWISE. EACH PIECE OF LUMBER TO BE GRADE MARKED BY AN APPROVED AGENCY.

DOUGLAS FIR SHALL BE COAST REGION DOUGLAS FIR AND BE MANUFACTURED AND GRADED IN ACCORDANCE WITH

EXPOSED POSTS ARCH GRD D F (RSN IF NOTED) FASCIA WINDOW FRAMES KILN DRÌED CLR. HEMLOCK/RSN . FACE BRACING, BACKING, PURLING DOUG. FIR STANDARD OR BETTER SPACED ROOF SHEATHING DOUG, FIR STANDARD OR BETTER 13.SOLID "V" RUSTIC EAVES NO.2 OR BETTER, PINE OR 2X6 T&G CEILING NO 1 WHITE FIR RESAWN FACE ZAO TAG CEILING NO. I WITTE FILME AND A CONTROL OF THE RECEIVED AND A CONTROL OF THE RECEIVED AND A CONTROL OF A CONTROL O DOOR JAMBS, CASINGS, MOLDINGS CLEAR DOUG. FIR OR PINE R. SHELVING 3/4" PLYWOOD WITH HARDWOOD EDGE SILLS, SLEEPERS, PLATES, ETC. ON MASONRY OR CONCRETE THAT IS IN DIRECT CONTACT WITH EARTH SHALL BE FOUNDATION

RADE & REDWOOD OR PRESSURE TREATED DOUGLAS FIR THE FOLLOWING MINIMUM GRADES SHALL APPLY TO WOOD STRUCTURAL PANELS UNLESS SHOWN OTHERWISE ON THE ROOF SHEATHING SHALL BE INTERIOR GRADE WITH EXTERIOR GLUE EXPOSED SHEATHING SHALL BE EXPOSURE I WITH EXTERIOR GLUE WALL SHEATHING SHALL BE INTERIOR GRADE WITH EXTERIOR GLUE. CARPENTRY-INSTALLATION APPLY ROOF SHEATHING WITH LONG DIMENSION PERPENDICULAR TO FRAMING MEMBER, OR AS SHOWN DRAWINGS. NAILING AND BLOCKING SHALL BE AS DETAILED. ALL SHEATHING SHALL BE LAYED WITH END AND EDGE GAPS AS SHOWN ON PANEL. PROVIDE 1/8" SPACING AT ALL PLYWOOD PANEL ENDS AND EDGES.

PROVIDE 'Z' FLASHING AT ALL PLYWOOD HORIZONTAL JOINTS. PROVIDE ALL WOOD BACKING, FURRING, STRIPPING OR BLOCKING INDICATED OR REQUIRED FOR PROPER INSTALLATION AND ATTACHMENT OF WORK OF ALL OTHER TRADES. CUT AND FRAME ALL OPENINGS REQUIRED BY OTHER TRADES. STRUCTURAL MEMBERS SHALL NOT BE CUT, NOT OR DRILLED EXCEPT AS SHOWN OR NOTED ON THE DRAWINGS, OR AS APPROVED BY THE ROVIDE SHORING BRACING SCAFEOLDING FTC NECESSARY TO CONSTRUCTION WORK PROPERLY AND SAFELY

ROVIDE FIRE BLOCKING AS SHOWN ON DRAWINGS AND AS REQUIRED BY CBC. PROVIDE DOUBLE JOIST AT PARALLEL PARTITIONS. ALL BEARING WALLS SHALL HAVE DOUBLE TOP PLATES LAPPED FOUR FEET MINIMUM AT JOINTS. PROVIDE TWO BOTTOM PLATES AT RAISED FLOORS WITH LIGHTWEIGHT CONCRETE FLOOR FINISH PROVIDE ONE BOTTOM PLATE AT ALL OTHER OCATIONS. WALLS AND PARTITIONS SHALL BE PLUMB, AND CORNERS AND ANGLES SOLID. BLOCKS SHALL BE CUT IN WHERE ECESSARY FOR NAILING. ROVIDE FULL BEARING UNDER JOISTS AT SUPPORTS. LAP JOIST MINIMUM 12" AT SUPPORTS. PROVIDE DOUBLE TRIMMERS AND HEADER JOIST AT ALL OPENING USE SHEET METAL JOIST HANGERS WHERE JOIST FRAME NTO HEADERS. ROVIDE SHEET METAL STRAPS AT ALL CORNERS AND POINTS WHERE TOP PLATE IS CUT, AS CALLED FOR ON THE DRAW

PROVIDE 2"X3" CROSS BRIDGING OR SOLID BLOCKING BETWEEN RAFTERS MORE THAN 6" DEEP AT 10'-0"O.C. MAXIMUM AND FOR JOIST MORE THAN 4" DEEP AT 8'-0" O.C. OR USE APPROVED METAL CROSS BRIDGING AT SAME SPACING. PLACE 2 SOLID BLOCKING BETWEEN JOIST OR RAFTERS OVER ALL SUPPORTS, EXCEPT WHERE JOIST OR RAFTERS REST ON A LET IN RIBBON. PROVIDE DOUBLE FLOOR JOIST BELOW ALL BEARING WALLS, MAXIMUM OFFSET OF ONE JOIST DEPTH. IN STUD WALLS, STAGGERED BLOCKING 2" THICK AND THE SAME WIDTH AS THE STUDS SHALL BE PROVIDED AT 8'-0" O. AXIMUM. STAGGERED BLOCKING NOT REQUIRED WHERE SPLICE BLOCKING FOR PLYWOO EXTERIOR WALLS WITHOUT CEILINGS AT 8'-0" SHALL HAVE CONTINUOUS COLUMN AND STUDS. FIRE BLOCKING IS N REQUIRED UNTIL HEIGHT OF WALL EXCEEDS 10'-0". PLYWOOD SHALL BE INSTALLED SO THAT THE FACE GRAIN PLIES ARE PERPENDICULAR TO THE DIRECTION OF JOIS STAGGER JOIST IN ADJACENT SHEETS. MINIMUM DIMENSIONS IN ANY DIRECTION SHALL BE 1'-4" WITH 4 SO.FT. MINIMUM AREA FOR ANY SHEET. PLYWOOD SHEATHING ON WALLS WITH WIDTHS GREATER THAN 4'-0", BUT LESS THAN 8'-0" SHALL HAVE FACE

GRAIN PLIES LAID HORIZONTAL. FACE GRAIN PLIES MAY BE VERTICAL ON ANY OTHER WALL. PROVIDE 2"X4" BLOCKING UNDER ALL EDGES OF PLYWOOD THAT DO NOT OCCUR OVER BEARING. PLYWOOD THAT ARE EXPOSED TO THE ELEMENTS SHALL BE APA C-C EXTERIOR GRADE PLYWOOD WITH EXTERIOR GLUE. 1/16 SPACING MUST BE PROVIDED AT ALL PANEL ENDS AND EDGES WHEN USING PLYWOOD PANEL SIDING. PROVIDE 'Z' FLASHING AT ALL HORIZONTAL JOINTS. D. WOOD SCREWS AND LAG BOLTS SHALL BE TURNED NOT DRIVEN INTO PLACE. FOR SCREW THREADS INTO WOODS, FIRST BORE A HOLE THE SAME DIAMETER AND DEPTH AS SHANK, SECOND, DRILL HOLE FOR THREADED PORTION HE SAME DIAMETER AS ROOT OF THREE . BOLT HOLES IN WOOD SHALL BE BORED 1/16" LARGER THAN NET SIZE OF BOLT. BOLT HOLES IN STEEL SHALL BE 1/6" LARGEI THAN NET DIAMETER OF BOLT. PROVIDE STANDARD MILD STEEL WASHERS UNDER HEAD AND NUT WHEN BEARING AGAINST

WOOD. ALL NUTS SHALL BE RE-TIGHTENED AT COMPLETION OF JOB OR JUST PRIOR TO CLOSING IN WITH FINISH ALL BOLTS IN WOOD SHALL BE SPACED 4 DIAMETERS MINIMUM EDGE DISTANCE AND 7 DIAMETER MINIMUM END DIST. JNLESS OTHERWISE NOTED JNLESS OTHERWISE NOTED, ALL STUDS SHALL BE AT 16" O.C. ASTENERS ROUGH HARDWARE AND FASTENERS SHALL BE AS SHOWN ON THE DRAWINGS OR AS PER THE FOLLOWING MINIMUM REQUIREMEN STEEL HARDWARE- ASTM A36, GALVANIZED AT EXTERIOR LOCATIONS

MACHINE BOLTS- ASTM A307 LAG BOLTS- FS FF-B-561 NAILS- COMMON WIRE, HOT DIPPED, GALVANIZED ONNECTORS- SIMPSON, OR APPROVED EQUAL B. POWER ACTUATED FASTENING SHALL BE "HILTI" OR EQUIVALENT AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS BUILDING PAPER: A MATERIALS SHALL CONFORM TO CBC STANDARDS FOR KRAFT PAPER AND ASPHALT SATURATED RAG FELT. 3. FELT OR PAPER SHALL BE APPLIED SHINGLE FASHION WITH NOT LESS THAN 4 INCH HORIZONTAL LAPS, 6 INCH VERTICAL LAPS, AP OVER 6 INCH STRIPS AROUND OPENINGS. LUE LAMINATED LUMBER: GLUE LAMINATED BEAMS SHALL HAVE MINIMUM DESIGNATION OF 2400 PSI BENDING STRENGTH, V4 ADHESIVE FOR SIMPLE SPANS AND V8 ADHESIVE FOR CANTILEVER SPANS. STORE MEMBERS ON SUPPORTS NOT LESS THAN 12 INCHES ABOVE THE GROUND OR 1-1/2 INCHES ABOVE SULFURS, AS AFFLICABLE. C. LAMINATED MEMBERS SHALL BE BUNDLED WRAPPED WITH END SEAL COATING. D. PROVIDE GLU-LAM BEAM CERTIFICATION INSPECTED BY AN INSPECTION AGENCY TO THE DIVISION OF BUILDING AND SAFETY PRIOR TO FINAL INSPECTION. CALL FOR INSPECTION OF MEMBERS PRIOR TO ERECTION. EACH MEMBER SHALL BE STAMPED WITH AN IDENTIFYING NUMBER. SUPPLY AITC CERTIFICATE FOR CONFORMANCE.

WITH AN IDENTIFYING NUMBER. SUPPLY AITC CERTIFICATE FOR CONFORMANCE. E. ALL FABRICATION AND WORKMANSHIP SHALL CONFORM TO THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED DOUGLAS FIR (COAST REGION) LUMBER BY THE WEST COAST LUMBERMANS ASSOCIATION AND THE CURRENT EDITION OF TIMBER CONSTRUCTION. ALL GLUED LAMINATED MEMBERS SHALL BE DOUGLAS FIR, COMBINATION 24F WITH WATERPROOF RESORCINOL OR PHENOL RESORCINOL GLUE CONFORMING TO SPECIFICATION MIL-A-397-B. CORE LAMINATIONS MAY BE HEM FIR. USE COMBINATIONS 24F-V4 OR 24F-V5 FOR SIMPLY SUPPORTED BEAMS AND COMBINATION 24-F-V8 OR 24F-24F-V10 FOR CANTILEVERED BEAMS. FINISH OF THE MEMBERS SHALL BE INDUSTRIAL APPEARANCE GRADE IN CONFORMANCE WITH THE AITC. A CERTIFICATE OF INSPECTION FOR EACH GLU LAM BEAM FROM AN APPROVED TESTING AGENCY SHALL BE SUBMITTED TO AND APPROVED BY THE LOCAL BUILDING DEPARTMENT AND BY THE ENGINEER PRIOR TO ERECTION. ROTECTION AGAINST DECAY AND TERMITES: WOOD EMBEDDED IN THE GROUND OR IN DIRECT CONTACT WITH THE EARTH AND USED FOR THE SUPPORT OF PERMANENT STRUCTURES SHALL BE TREATED WOOD

WOOD JOISTS OR THE BOTTOM OF WOOD FLOORS CLOSER THAN 18" OR WOOD GIRDERS CLOSER THAN 12" TO THE GROUND UNDER FLOOR AREAS AND THEIR SUPPORTS. SHALL BE TREATED WOOD OR ALL HEART-WOOD OF APPROVED NATURALLY URABLE SPECIES AS LISTED IN THE CALIFORNIA BUILDING CODE, APPLICABLE EDITION. ATES, SILLS AND SLEEPERS; ALL FOUNDATION PLATES OR SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB, WHICH IS IN DIRECT CONTACT WITH EARTH, AND SILLS WHICH REST ON CONCRETE OR MASONRY FOUNDATIONS, SHALL BE PRESSURE TREATED WOOD OR OUNDATION REDWOOD, ALL MARKED OR BRANDED BY AN APPROVED AGENCY. DLUMNS AND POSTS:

INDATION VENTILATION: PENINGS OF 1/4" IN DIMENSION

COLUMNS AND POSTS LOCATED ON CONCRETE OR MASONRY FLOORS OR DECKS EXPOSED TO THE WEATHER OR TO WEATHER SPLASH OR IN BASEMENTS AND WHICH SUPPORT PERMANENT STRUCTURES SHALL BE SUPPORTED BY CONCRETE PIERS OR IETAL PEDESTALS PROJECTING ABOVE FLOORS UNLESS APPROVED WOOD OF NATURAL RESISTANCE TO DECAY OR TREATED WOOD IS USED. THE PEDESTALS SHALL PROJECT AT LEAST 6" ABOVE EXPOSED EARTH AND AT LEAST 1" ABOVE SUCH FLOORS. INDIVIDUAL CONCRETE OR MASONRY PIERS SHALL PROJECT AT LEAST 8" ABOVE EXPOSED GROUND UNLESS THE COLUMNS OR DSTS WHICH THEY SUPPORT ARE OF APPROVED WOOD OF NATURAL RESISTANCE TO DECAY OR TREATED WOOD IS USED. OOD AND EARTH SEPARATION; NO UNTREATED WOOD. EXCEPT FOUNDATION REDWOOD SHALL BE NEARER THAN 8" TO ANY EARTH UNLESS SEPARATED BY NCRETE AT LEAST 3" IN THICKNESS WITH AN IMPERVIOUS MEMBRANE. INSTALLED BETWEEN THE EARTH AND CONCRETE FOUNDATION VENTILATION; UNDER FLOOR AREAS SHALL BE VENTILATED BY AN APPROVED MECHANICAL MEANS OR BY OPENINGS INTO THE UNDER FLOOR AREA WALLS, SUCH OPENINGS SHALL HAVE A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA, OPENINGS SHALL BE LOCATED AS CLOSE TO CORNERS AS PRACTICAL AND SHALL PROVIDE CROSS VENTILATION. THE REQUIRED AREA OF SUCH OPENINGS SHALL BE APPROXIMATELY EQUALLY DISTRIBUTED ALONG THE LENGTH OF AT LEAST TWO OPPOSITE SIDES. THEY SHALL BE COVERED WITH CORROSION RESISTANCE WIRE MESH WITH MESH

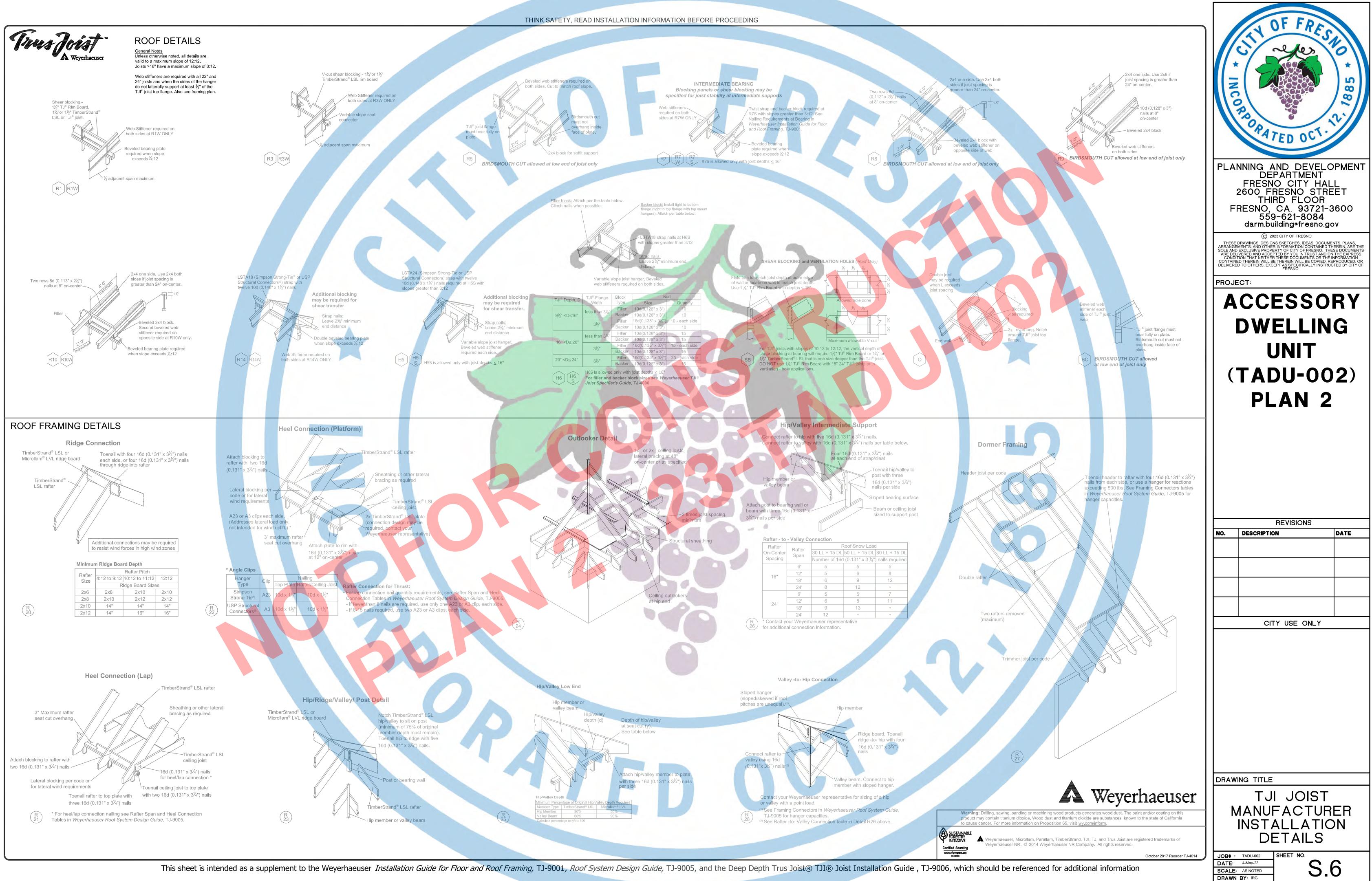
AMS AND GIRDERS; HE ENDS OF BEAMS OR GIRDERS SUPPORTED ON MASONRY OR CONCRETE SHALL HAVE NOT LESS THAN 3" OF BEARING HE ENDS OF BEAMS OR GIRDERS SUPPORTED ON MASONRY OR CONCRETE SHALL HAVE NOT LESS THAN 3" OF BEARING ALL BEAMS OR GIRDERS SUPPORTED ON WOOD SHALL HAVE FULL BEARING, AND BEARING SHALL BE COMPRISED OF ONE (OLID SUPPORT OR A BUILT UP SUPPORT CONSTRUCTED IN AN APPROVED MANNER UNLESS OTHERWISE SPECIFIED ON PLANS. PROVIDE 2X4 TEMPORARY BRACING TO ALL BEAMS PROJECTING TO ALL BEAMS PROJECTING 3'-0" BEYOND BUILDING LINE TO PREVENT WARPAGE

RUNS PARALLEL TO THE FLOOR JOISTS, THE JOISTS UNDERNEATH SUCH PARTITIONS SHALL BE DOUBLED AND SPACED TO PERMIT THE PASSAGE OF SUCH PIPES AND SHALL BE BRIDGED. WHERE PLUMBING, HEATING OR OTHER PIPES ARE PLACED IN OR PARTLY IN A PARTITION NECESSITATING THE CUTTING OF THE SOLES OR PLATES, A METAL TIE NOT LESS THAN 16 GALVANIZED GAUGE AND 1 1/2" WIDE SHALL BE FASTENED TO EACH PLATE ACROSS AND TO EACH SIDE OF THE OPENING WITH NOT LESS THAN 16d NAILS. G. BRIDGING: ALL STUD PARTITIONS OR WALLS WITH STUDS HAVING A HEIGHT TO AT LEAST THICKNESS RATIO EXCEEDING 50 SHALL HAVE BRIDGING NOT LESS THAN 2"IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS FITTED SNUGLY AND NAILED THERE TO PROVIDE ADEQUATE LATERAL SUPPORT. H. CUTTING AND NOTCHING EXTERIOR WALLS AND BEARING PARTITIONS: ANY WOOD STUD MAY BE CUT OR NOTCH TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCEN OF THE WIDTH THE STUD IS PERMITTED IN NONBEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITIONS. JOISTS, BEAMS, AND GIRDERS: USE LONGEST PRACTICABLE LENGTHS, PLACE WITH CROWN SIDE UP. WHERE MEMBERS CANTILEVER. PLACE CROWN SIDE DOWN. BORED HOLES: A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH MAY BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE WIDTH OF THE STUD ARE PERMITTED IN NON BEARING PARTITIONS OR IN ANY WALL WHERE EACH STUD IS DOUBLED, PROVIDED NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLE STUDS ARE SO BORED. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8" TO THE EDGE OF THE STUD BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF THE STUD AS A CUT OR NOTCH. . TEMPORARY WALL BRACING: FRAMER IS RESPONSIBLE FOR INSTALLING TEMPORARY WALL BRACING TO ADEQUATELY SUPPORT FRAMING DURING CONSTRUCTION. THIS BRACING TO REMAIN IN PLACE UNTIL STRUCTURAL INTEGRITY HAS BEEN. ACHIEVED

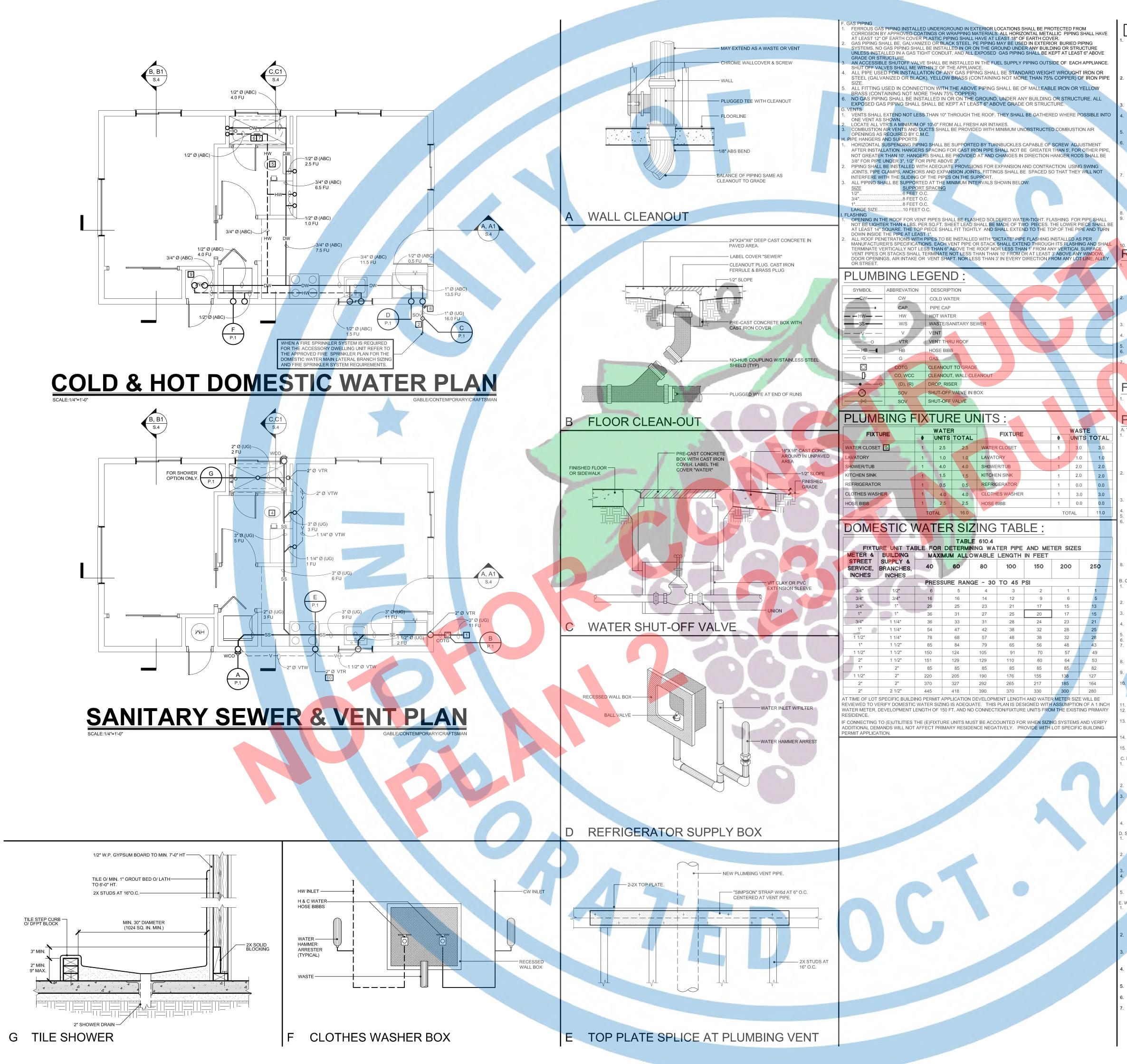
CONTINUOUS PURLIN SAME SIZE AS RAFTERS FOOTNOTES: - 2X BRACING AT 48" O.C. TO BEARING WALL. 45° IF TOP PLATE IS CUT FOR HEATING STACK, MINIMUM OR PIPE, TIE WITH METAL STRAP - 1 1/2" X 1/8" AND 4-16d EACH SIDE. EDGE NAILING PRACTICE OR APPROVED UNDER SECTION R104.11. FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2). SEE ARCHITECTURAL FOR OVERHANG TREATMENT TRIMMER TYPICAL GLAZING ALL HORIZ. LUMBER TO BE D.F OPENING NO.2 OR BETTER, ALL OTHE FRAMING LUMBER MAY BE CONST. GRADE OR BETTER (UNLESS OTHERWISE NOTED) 1/2"Ø X10" A.B.'S AT 72" O.(2" MAX FROM ENDS OF EACH -3 1/2" CONCRETE SLAB W/6X6, 10X10 E.W.W.M. (OPTIONAL) O/2 1/2" SAND O/6 MIL. VISQUENE MIL. VISQUENE (OPTIONAL). 2X CRIPPLES -2X D.F.P.T. SILL

FASTENING SCHEDULE: PER CRC TABLE R602.3(1) FOR SI: 1 INCH = 25.4 MM., 1 FOOT = 304.8 MM, 1 MILE PER HOUR = 0.447 M/S; 1 KSI = 6.895 MPa.

		STENING SCH	IEDULE: PER CRC T		
 WALL FRAMING; A. SIZE: STUDS IN EXTERIOR WALLS AND INTERIOR BEARING WALLS OF BUILDING NOT MORE THAN 2 STORIES IN HEIGHT SHALL BE NOT LESS THAN 2"X4" IN SIZE. FOR THREE STORY BUILDINGS SUCH STUDS SHALL NOT BE LESS THAN 3"X4"OR 2"X6" TO THE 	ITEM	BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c} ROOF 4-8d BOX (2 1/2" × 0.113"); OR	SPACING AND LOCATION	NOT FRE
BOTTOM OF THE SECOND FLOOR JOISTS AND 2"X4" FOR THE TWO UPPER STORIES. INTERIOR NONBEARING PARTITIONS MAY BE FRAMED WITH 2"X4" STUDS. B. HEIGHT: UNLESS SUPPORTED LATERALLY BY ADEQUATE FRAMING, THE MAXIMUM ALLOWABLE HEIGHT FOR STUDS SHALL BE 14'-0" FOR 2"X4" AND 3"X4" STUD; AND 20'-0" FOR 2"X6", REFER TO ENGINEERS CALCULATIONS FOR ANY "BALLOON FRAMED"		JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS	TOE NAIL	i refer to
BEARING WALLS MORE THAN 10'-0" IN HT. C. SPACING: STUDS SUPPORTING FLOORS, CEILING, RAFTERS SHALL BE SPACED NOT MORE THAN 16". D. CRIPPLE WALLS: SHALL BE FRAMED ON STUDS NOT LESS IN SIZE THAN THE STUDDING ABOVE OR SHALL BE FRAMED OF SOLID	1	FLAT BLOCKING TO TRUSS AND	2-8d COMMON (2 1/2" × 0.131"); OR 2-3" × 0.131" NAILS 2-16d COMMON (3 1/2" × 0.162"); OR	EACH END TOE NAIL	
 BLOCKING. WHEN EXCEEDING 4'-0" IN HEIGHT, SUCH WALLS SHALL BE FRAMED OF STUDS HAVING THE SIZE REQUIRED FOR AN ADDITIONAL STORY. E. HEADERS: ALL OPENINGS 4'-0"WIDE OR LESS IN BEARING WALLS SHALL BE PROVIDED WITH HEADERS CONSISTING OF EITHER TWO PIECES OF 2" FRAMING LUMBER PLACED ON EDGE AND SECURELY FASTENED TOGETHER OR 4" LUMBER OF EQUIVALENT 	2	WEB FILLER CEILING JOISTS TO TOP PLATE	3-3" × 0.131" NAILS 4-8d BOX (2 1/2" × 0.113"); OR 3-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"): OR	PER JOIST, TOE NAIL	
CROSS SECTION. ALL OPENING MORE THAN 4-0"WIDE SHALL BE PROVIDED WITH HEADERS OR LINTELS. EACH END OF A LINTEL OR HEADER SHALL HAVE A LENGTH OF BEARING OF NOT LESS THAN 1 1/2" FOR THE FULL WIDTH OF THE LINTEL. (SEE ROOF FRAMING PLAN FOR DETAILS) F. PIPES IN WALLS: STUD PARTITIONS CONTAINING PLUMBING, HEATING, OR OTHER PIPES SHALL BE SO FRAMED AND THE JOISTS	2	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER	3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS 4-10d BOX (3" × 0.128"); OR 3-16d COMMON (3 1/2" × 0.162"); OR		
UNDERNEATH SO SPACED AS TO GIVE PROPER CLEARANCE FOR THE PIPING. WHERE A PARTITION CONTAINING SUCH PIPING RUNS PARALLEL TO THE FLOOR JOISTS, THE JOISTS UNDERNEATH SUCH PARTITIONS SHALL BE DOUBLED AND SPACED TO PERMIT THE PASSAGE OF SUCH PIPES AND SHALL BE BRIDGED. WHERE PLUMBING, HEATING OR OTHER PIPES ARE PLACED IN	3	PARTITIONS [SEE SECTION R802.5.2 AND TABLE R802.5.2(1)] CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	4-3" × 0.131" NAILS	FACE NAIL	
OR PARTLY IN A PARTITION NECESSITATING THE CUTTING OF THE SOLES OR PLATES, A METAL TIE NOT LESS THAN 16 GALVANIZED GAUGE AND 1 1/2" WIDE SHALL BE FASTENED TO EACH PLATE ACROSS AND TO EACH SIDE OF THE OPENING WITH NOT LESS THAN 16d NAILS. G. BRIDGING: ALL STUD PARTITIONS OR WALLS WITH STUDS HAVING A HEIGHT TO AT LEAST THICKNESS RATIO EXCEEDING 50	4	[SEE SECTION R802.5.2 AND TABLE R802.5.2(1)] COLLAR TIE TO RAFTER, FACE	TABLE R802.5.2(1) 4-10d BOX (3" × 0.128"); OR 2.10d COMMON (0" × 0.148"); OB		Pop Nil
SHALL HAVE BRIDGING NOT LESS THAN 2"IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS FITTED SNUGLY AND NAILED THERE TO PROVIDE ADEQUATE LATERAL SUPPORT. H. CUTTING AND NOTCHING EXTERIOR WALLS AND BEARING PARTITIONS: ANY WOOD STUD MAY BE CUT OR NOTCH TO A DEPTH	5	RAFTER OR ROOF TRUSS TO	3-10d COMMON (3" × 0.148"); OR 4-3" × 0.131" NAILS 3-16d BOX (3 1/2" × 0.135"); OR 3-10d COMMON (3" × 0.148"); OR	FACE NAIL EACH RAFTER	ATED OCT
NOT EXCEEDING 25 PERCENT OF ITS WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH THE STUD IS PERMITTED IN NONBEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITIONS. I. JOISTS, BEAMS, AND GIRDERS: USE LONGEST PRACTICABLE LENGTHS, PLACE WITH CROWN SIDE UP. WHERE MEMBERS	6	RAFTER OR ROOF TRUSS TO PLATE	4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS 4-16d BOX (3 1/2" × 0.135"); OR	TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS	
CANTILEVER, PLACE CROWN SIDE DOWN. J. BORED HOLES: A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH MAY BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE WIDTH OF THE STUD ARE PERMITTED IN NON BEARING	7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR	3-10d COMMON (3" × 0.148"); OR 4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS	TOE NAIL	PLANNING AND DEVELOPMENT
PARTITIONS OR IN ANY WALL WHERE EACH STUD IS DOUBLED, PROVIDED NOT MORE THAN TWO SUCH SUCCESSIVE DOUBLE STUDS ARE SO BORED. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8" TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF THE STUD AS A CUT OR NOTCH. K. TEMPORARY WALL BRACING: FRAMER IS RESPONSIBLE FOR INSTALLING TEMPORARY WALL BRACING TO ADEQUATELY		ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	3-16d BOX (3 1/2" × 0.135"); OR 2-16d COMMON (3 1/2" × 0.162"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS	END NAIL	FRESNO CITY HALL
SUPPORT FRAMING DURING CONSTRUCTION. THIS BRACING TO REMAIN IN PLACE UNTIL STRUCTURAL INTEGRITY HAS BEEN ACHIEVED. 13. FIRE BLOCKS AND DRAFT STOPS; A. IN COMBUSTIBLE CONDUCTION, FIRE BLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED TO CUT OFF ALL CONCEALED		STUD TO STUD (NOT AT BRACED	3-3" × 0.131" NAILS WALL 16d COMMON (3 1/2"X0.162")	24" O.C. FACE NAIL	2600 FRESNO STREET THIRD FLOOR
DRAFT OPENINGS(BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN A TOP STORY AND ROOF OR ATTIC SPACE, AND SHALL SUBDIVIDE ATTIC SPACES, CONCEALED ROOF SPACES AND FLOOR CEILING ASSEMBLIES. THE INTEGRITY OF ALL FIRE BLOCKS AND DRAFT STOPS SHALL BE MAINTAINED.	8	WALL PANELS)	10d BOX (3"X0.128"); OR 3"X0.131 NAILS 16d BOX (3 1/2"X0.135"); OR	16" O.C. FACE NAIL	FRESNO, CA. 93721-3600 559-621-8084
 B. FIRE BLOCKS SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS: IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS AND AT 10'-0" INTERVALS BOTH VERTICAL AND HORIZONTAL. EXCEPTION: FIRE BLOCKS MAY BE OMITTED AT FLOOR AND CEILING LEVELS WHEN APPROVED SMOKE ACTUATED FIRE 	9	STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS) BUILT-UP HEADER (2" TO 2"	3"X0.131 NAILS 16d COMMON (3 1/2"X0.162") 16d COMMON (3 1/2"X0.162")	12" O.C. FACE NAIL 16" O.C. FACE NAIL 16" O.C. EACH FACE NAIL	C) 2023 CITY OF FRESNO
DAMPERS ARE INSTALLED AT THESE LEVELS 2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.	10	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16a COMMON (3 1/2"X0.162") 16 BOX (3 1/2"X0.135") 5-8d BOX (2 1/2" × 0.113"); OR 4-8d COMMON (2 1/2" × 0.131"); OR	16" O.C. EACH FACE NAIL 12" O.C. EACH FACE NAIL TOE NAIL	THESE DRAWINGS, DESIGNS SKETCHES, IDEAS, DOCUMENTS, PLANS, ARRANGEMENTS, AND OTHER INFORMATION CONTAINED THEREIN, ARE THE SOLE AND EXCLUSIVE PROPERTY OF CITY OF FRESNO. THESE DOCUMENTS
 IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALLS UNDER THE STAIRS ARE UNFINISHED. AN OPENING AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILINGS AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS. 	12	ADJACENT FULL-HEIGHT STUD TO	4-10d BOX (3" × 0.128") 4-16d BOX (3 1/2"× 0.135"); OR 3-16d COMMON (3 1/2" × 0.162"); OR	END NAIL	ARE DELIVERED AND ACCEPTED BY YOU IN TRUST AND ON THE EXPRESS CONDITION THAT NEITHER THESE DOCUMENTS OR THE INFORMATION CONTAINED THEREIN WILL BE THEREIN WILL BE COPIED, REPRODUCED, OR DELIVERED TO OTHERS, EXCEPT AS SPECIFICALLY INSTRUCTED BY CITY OF
 AT OPENING BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY BUILT CHIMNEYS AT OPENING BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY BUILT CHIMNEYS FLOOR JOISTS; A. BEARING: EXCEPT WHERE JOISTS ARE SUPPORTED ON A 1" X 4" RIBBON STRIP AND NAILED TO THE ADJOINING STUD, THE ENDS OF EACH JOIST SHALL HAVE NOT LESS THAN 1 1/2" OF BEARING ON WOOD OR METAL, NOR NO LESS THAN 3" ON 		END OF HEADER	4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS 16d COMMON (3 1/2" × 0.162")	16" O.C. FACE NAIL	
MASONRY. B. BLOCKING: JOISTS SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING EXCEPT WHERE THE ENDS OF JOISTS ARE NAILED TO A HEADER, BAND OR RIM JOIST OR TO AN ADJOINING STUD OR BY OTHER	13	TOP PLATE TO TOP PLATE	10d BOX (3" × 0.128"); OR 3" × 0.131" NAILS 8-16d COMMON (3 1/2" × 0.162"); OR 12.16d BOX (3 1/2" × 0.135"); OR	12" O.C. FACE NAIL FACE NAIL ON EACH SIDE OF END	
APPROVED MEANS. SOLID BLOCKING SHALL BE NOT LESS THAN 2" NOMINAL IN THICKNESS AND THE FULL DEPTH OF JOIST. C. NOTCHES AND HOLES: NOTCHES ON THE ENDS OF JOISTS SHALL NOT EXCEED ONE FOURTH OF THE JOIST DEPTH. HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOISTS, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE THIRD THE DEPTH OF THE JOIST, NOTCHES IN THE TOP OR BOTTOM OF JOISTS SHALL NOT	14	DOUBLE TOP PLATE SPLICE	12-16d BOX (3 1/2" × 0.135"); OR 12-10d BOX (3" × 0.128"); OR 12-3" × 0.131" NAILS1 16d COMMON (3 1/2"X0.162")	JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	
EXCEED ONE SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. D. LAPS: JOIST FRAMING FROM OPPOSITE SIDES OF A BEAM, OR PARTITION SHALL BE LAPPED AT LEAST 5" OR THE OPPOSING JOIST SHALL BE TIED TOGETHER IN AN APPROVED MANNER.	15	JOIST, BAND JOIST OR BLOCKING	16d BOX (3 1/2" × 0.135"); OR 3" × 0.131" NAILS	16" O.C. FACE NAIL	DWELLING
E. FRAMING ANCHORS: JOIST FRAMING INTO THE SIDE OF A WOOD GIRDER OR PARTITION SHALL BE SUPPORTED BY FRAMING ANCHORS OR ON LEDGER STRIPS NOT LESS THAN 2 INCHES BY 2 INCHES. F. FRAMING AROUND OPENINGS: TRIMMER AND HEADER JOISTS WHEN FRAMED AROUND OPENINGS SHALL BE DOUBLED, OR OF	16	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANEL)	ROOF 3-16d BOX (3 1/2" × 0.135"); OR 2-16d COMMON (3 1/2" × 0.162"); OR 4-3" × 0.131" NAILS	16" O.C. FACE NAIL	
LUMBER OF EQUIVALENT CROSS SECTION, WHEN THE SPAN OF THE HEADER EXCEEDS 4'-0". THE ENDS OF THE HEADER JOISTS MORE THAN 6'-0" LONG SHALL BE SUPPORTED BY FRAMING ANCHORS OR JOIST HANGERS UNLESS BEARING ON A BEAM, PARTITION OR WALL. TAIL JOISTS OVER 12'-0" LONG SHALL BE SUPPORTED AT HEADER BY FRAMING ANCHORS OR ON LEDGER STRIPS NOT LESS THAN 2"X2".			4-8d BOX (2 1/2" × 0.113"); OR 3-16d BOX (3 1/2" × 0.135"); OR 4-8d COMMON (2 1/2" × 0.131"); OR	TOE NAIL	UNIT
 G. SUPPORTING BEARING POSITIONS: BEARING PARTITIONS PERPENDICULAR TO JOIST SHALL NOT BE OFFSET FROM THE SUPPORTING GIRDERS, WALLS OR PARTITIONS MORE THAN THE JOIST DEPTH. JOISTS UNDER THE PARALLEL TO BEARING PARTITIONS SHALL BE DOUBLED. 15. FLOOR SHEATHING; 	17	TOP OR BOTTOM PLATE TO STUD	4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS 3-16d BOX (3 1/2" × 0.135"); OR		
A. PLYWOOD COMBINATION SUB FLOOR UNDERLAYMENT SHEATHING CONTINUOUS OVER TWO OR MORE SPANS SHALL BE A MINIMUM 5/8" THICK TONGUE AND GROOVE AND HAVE A PANEL IDENTIFICATION INDEX AS REQUIRED FOR THE FLOOR JOIST SPACING (SEE FLOOR FRAMING PLANS) AND SHALL BE UNDERLAYMENT GRADE, C-C (PLUGGED) AND ALL GRADES OF SANDED			2-16d COMMON (3 1/2" × 0.162"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS 3-10d BOX (3" × 0.128"); OR	END NAIL	(TADU-002)
EXTERIOR TYPE PLYWOOD IN GROUP SPECIES OF 1, 2, OR 3. B. GLUE FOR FLOOR SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION SPEC. AFG-01. C. EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND OF THE AMERICAN PLYWOOD ASSOCIATION.	18	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" × 0.128"); OR 2-16d COMMON (3 1/2" × 0.162"); OR 3-3" × 0.131" NAILS 3-8d BOX (2 1/2" × 0.113"); OR	FACE NAIL	PLAN 2
16. ROOF AND CEILING FRAMING; A. FRAMING RAFTERS: SHALL BE FRAMED DIRECTLY OPPOSITE EACH OTHER AT THE RIDGE. THERE SHALL BE A RIDGE BOARD AT LEAST 2" NOMINAL THICKNESS AT ALL RIDGES AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. AT ALL VALLEYS	19	1" BRACE TO EACH STUD AND PLATE	2-8d COMMON (2 1/2" × 0.131"); OR 2-10d BOX (3" × 0.128"); OR 2 STAPLES 1 3/4"	FACE NAIL	
AND HIPS THERE SHALL BE A SINGLE VALLEY OR HIP RAFTER NOT LESS THEN 2" NOMINAL THICKNESS AND NOT LESS IN DEPTH THEN THE CUT. END OF THE RAFTERS. B. RAFTERS: SHALL BE NAILED TO ADJACENT CEILING JOISTS TO FORM A CONTINUOUS TIE BETWEEN EXTERIOR WALLS WHEN SUCH JOISTS ARE PARALLEL TO THE RAFTERS. WHERE NOT PARALLEL RAFTERS SHALL BE TIED TO 1"X4"(NOMINAL) MINIMUM	20	1"X6" SHEATHING TO EACH BEARING	3-8d BOX (2 1/2" × 0.113"); OR 2-8d COMMON (2 1/2" × 0.131"); OR 2-10d BOX (3" × 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG	FACE NAIL	
SIZE CROSS TIES, RAFTER TIES SHALL BE SPACED NOT MORE THAN 4'-0" ON CENTER. C. PURLINS: TO SUPPORT ROOF LOADS MAY BE INSTALLED TO REDUCE THE SPAN OF RAFTERS WITHIN ALLOW- ABLE LIMITS AND SHALL BE SUPPORTED BY STRUTS TO BEARING WALLS. THE MAXIMUM SPAN OF 2"X4" PURLINS SHALL BE 4'-0". THE MAXIMUM SPAN OF THE 2"X6" PURLIN SHALL BE 6'-0" BUT IN NO CASE SHALL THE PURLIN BE SMALLER THAN THE SUPPORTED RAFTER.			3-8d BOX (2 1/2" × 0.113"); OR 3-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR		
STRUTS SHALL NOT BE SMALLER THAN 2"X4" MEMBERS. THE UNBRACED LENGTH OF STRUTS SHALL NOT EXCEED 8'-0" AND THE MINIMUM SLOPE OF THE STRUTS SHALL BE NOT LESS THAN 45 DEGREE'S FROM THE HORIZONTAL. D. BLOCKING: RAFTERS MORE THAN 8" IN DEPTH SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY	21	1"X8" AND WIDER SHEATHING TO EACH BEARING	3 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG WIDER THAN 1" × 8" 4-8d BOX (2 1/2" × 0.113"); OR	FACE NAIL	
SOLID BLOCKING NOT LESS THAN 2" IN THICKNESS AND THE FULL DEPTH OF THE RAFTER UNLESS NAILED TO A HEADER, BAND OR RIM JOIST OR TO AN ADJOINING STUD AND AS REQUIRED BY SECTION 2320.12.8 17. PREFABRICATED WOOD TRUSSES; A. MANUFACTURER SHALL SUPPLY TO THE DESIGNER AND THE BUILDING DEPARTMENT CALCULATIONS AND SHOP DRAWINGS FOR			3-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG FLOOR		-
APPROVAL TO DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARING), AND SHEAR TRANSFER, PRIOR TO FABRICATION. ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHEREIN THE PROJECT IS TO BE BUILT. IT SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER TO OBTAIN BUILDING DEPARTMENT	22	JOIST TO SILL, TOP PLATE OR GIRDER	4-8d BOX (2 1/2" × 0.113"); OR 3-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR	TOE NAIL	
APPROVAL OF CALCULATIONS AND SHOP DRAWINGS PRIOR TO FABRICATIONS. B. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST LOCAL BUILDING CODE FOR ALL LOADS IMPOSED, INCLUDING LATERAL LOADS AND MECHANICAL EQUIPMENT LOADS. C. ALL CONNECTORS SHALL BE ICC APPROVED AND OF ADEQUATE STRENGTH TO RESIST STRESSES DUE TO LOADING INVOLVED.	23	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE	3-3" × 0.131" NAILS 8d BOX (2 1/2"X0.113")	4" O.C. TOE NAIL	
D. DEAD LOAD DEFLECTIONS SHALL BE LIMITED TO L/240. E. CROSS BRIDGING AND/OR BRACING SHALL BE PROVIDED AND DETAILED AS REQUIRED TO ADEQUATELY BRACE ALL TRUSSES (SEE STRUCTURAL CALCULATIONS.)	23	(ROOF APPLICATIONS ALSO)	10d BOX (3"X0.128"); OR 3"X0.131" NAILS 3-8d BOX (2 1/2" × 0.113"); OR	6" O.C. TOE NAIL	REVISIONS
 F. TRUSSES STORED PRIOR TO ERECTION SHALL BE PROTECTED FROM THE WEATHER AND HANDLED WITH CARE TO AVOID DAMAGE. NOTIFY TRUSS MANUFACTURER IMMEDIATELY OF ANY DAMAGED TRUSSES. CONTRACTOR SHALL NOT ATTEMPTED TO REPAIR DAMAGED AND/OR BROKEN TRUSSES. G. TRUSS MANUFACTURER SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE PRIOR TO FABRICATION OF TRUSSES. 	24	1"X6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG	FACE NAIL	NO. DESCRIPTION DATE
 H. THE GENERAL CONTRACTOR SHALL NOT PERMIT CUTTING, DRILLING, OR ANY OTHER DAMAGE TO TRUSSES. I. FIELD REPAIRS TO DAMAGED TRUSSES BY THE CONTRACTOR SHALL NOT BE MADE WITHOUT PRIOR APPROVAL FROM THE TRUSS MANUFACTURER. 	25 26	2" SUBFLOOR TO JOIST OR GIRDER 2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	3-16d BOX (3 1/2" × 0.135"); OR 2-16d COMMON (3 1/2" × 0.162") 3-16d BOX (3 1/2"X0.135") OR 2-16d COMMON (3 1/2"X0.162")	BLIND AND FACE NAIL AT EACH BEARING, FACE NAIL	
 J. THE CONTRACTOR SHALL INSTALL TEMPORARY HORIZONTAL AND CROSS BRACING TO HOLD TRUSSES PLUMB AND IN SAFE CONDITION UNTIL PERMANENT BRACING IS INSTALLED. K. THE GENERAL CONTRACTOR SHALL EXERCISE CARE TO PREVENT OVER STRESSING OF TRUSSES DUE TO CONCENTRATED CONSTRUCTION LOADING. 	27	BAND OR RIM JOIST TO JOIST	3-16d COMMON (3 1/2"X0.162"); OR 4-10d BOX (3"X0.128"); OR 4-3"X 0.131" NAILS; OR	END NAIL	
18. ROOF SHEATHING; A. 1"X4" OR 1"X6" SPACED: WITH 1"X6" SHIPLAP STARTER BOARD AT ALL EXPOSED EAVES (RESAWN FACE DOWN) SHALL BE STANDARD, 3 COMMON NO. 2, OR CONSTRUCTION COMMON GRADES AND SHALL BE SPACED NOT TO EXCEED 6" CLEAR NOR MORE THAN THE NOMINAL WIDTH OF THE SHEATHING BOARD.			4-3"X14 GA. STAPLES, 7/16" CROWN 20d COMMON (4"X0.192"); OR	NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND	
B. PLYWOOD SHEATHING IS TO BE CONTINUOUS OVER TWO OR MORE SPANS AND IS TO BE A MINIMUM 1/2" THICK AND HAVE PANEL IDENTIFICATION INDEX AS REQUIRED FOR RAFTER SPACING (SEE ROOF PLANS) ALL PLYWOOD SHALL BE STRUCTURAL I AND II STANDARD SHEATHING, AND C-C GRADES ONLY, WITH EDGES BLOCKED OR UNBLOCKED AS REQUIRED FOR SPAN.	28	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	10d BOX (3"X0.128"); OR 3"X0.131" NAILS	STAGGERED. 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES	
 C. EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND OF THE AMERICAN PLYWOOD ASSOCIATION. 19. ATTIC VENTILATION(WHERE DETERMINED NECESSARY BY THE BUILDING OFFICIAL); A. ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY 			AND: 2-20d COMMON (4"X0.192"); OR 3-10d BOX (3"X0.128"); OR 3-3"X0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE	
[*] VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN AND SNOW. THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED. EXCEPT THAT THE AREA MAY BE 1/300 PROVIDED 50 PERCENT OF THE REQUIRED VENTILATING. AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3'-0" ABOVE EAVE OR CORNICE VENTS, WITH THE BALANCE OF THE REQUIRED	29	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16d BOX (3 1/2"X0.135"); OR 3-16d COMMON (3 1/2"X0.162"); OR 4-10d BOX (3"x0.128"); OR 4-3"X0.131 NAILS	AT EACH JOIST OR RAFTER, FACE NAIL	CITY USE ONLY
VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. THE OPENING SHALL BE COVERED WITH CORROSION-RESISTANCE METAL MESH WITH MESH OPENINGS OF 1/4" IN DIMENSION. DO NOT BLOCK VENTS WITH INSULATION. 20. FIREBLOCK CONSTRUCTION; A. EXCEPT AS PROVIDED IN ITEM D ABOVE, FIRE BLOCKING SHALL CONSIST OF 2" NOMINAL LUMBER OR TWO THICKENS OF 1"	30	BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	4-3"X0.131 NAILS 2-10d BOX (3" × 0.128"); OR 2-8d COMMON (2 1/2" × 0.131"); OR 2-3" × 0.131" NAILS	EACH END, TOE NAIL	
NOMINAL LUMBER WITH BROKEN LAP JOINTS OR ONE THICKNESS OF 23/32" WOOD STRUCTURAL PANEL, WITH JOINTS BACKED BY 23/32" WOOD STRUCTURAL PANEL, OR ONE THICKNESS OF 3/4" TYPE 2-M PARTICLE BOARD WITH JOINTS BACKED BY 3/4" TYPE 2-M PARTICLE BOARD.	ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c}	SPACING AND LOCATION INTERMEDIATE EDGES ^h (INCHES) (INCHES)	
FIREBOX MAY ALSO BE OF GYPSUM BOARD, GLASS FIBER , MI NERAL FIBER OR OTHER APPROVED MATERIALS S ECUR ELY FASTENED IN PLACE. WALLS HAVING PARALLEL OR STAGGERED STUDS FOR SOUND TRANSMISSION CONTR OL SH ALL HAVE FIRE BLO CKS OF MINERAL FIBER OR GLASS FIBER OTHER APPROVED NON RIGID MATERIAL.			OOR, ROOF AND INTERIOR WALL SHEATHING TO F E R602.3(3) FOR WOOD STRUCTURAL EXTERIOR V		-
B. PROVIDE FIRE BLOCKING AT ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES AND THE ROOF SPACE.	31	3/8"-1/2"	6D COMMON OR DEFORMED (2" × 0.113"× 0.266" HEAD); OR 2 3/8" × 0.113" × 0.266" HEAD NAIL (SUBFLOOR, WALL)	6 6 ^f	
	J		8D COMMON (2 1/2" × 0.131") NAIL (ROOF); OR RSRS-01 (2 3/8" × 0.113") NAIL (ROOF) ^b 8d COMMON (2-21/2" × 0.131") NAIL (SUBFLOOR,	6 6 ^f 6 12	-
FASTENING SCHEDULE: PER CRC TABLE R602.3(1) FOOTNOTES:	32	19/32"-3/4"	WALL) 8D COMMON (2 1/2" × 0.131") NAIL (ROOF); OR RSRS-01 (2 3/8" × 0.113") NAIL (ROOF) ^b	6 6 ^f	
FOR SI: 1 INCH = 25.4 MM., 1 FOOT = 304.8 MM, 1 MILE PER HOUR = 0.447 M/S; 1 KSI = 6.895 MPa. a. NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS ARE CARBON STEEL AND SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS	33	7/8"- 1 1/4"	DEFORMED 2 3/8" × 0.113" × 0.266" HEAD (WALL C SUBFLOOR) 10d COMMON (3"X0.148") NAIL; OR (2 1/2"x0.131"x0.281" HEAD)DEFORMED NAIL	DR 6 12 6 12	
SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20D COMMON NAIL), 90 KSI FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.177 INCH, AND 100 KSI FOR SHANK DIAMETERS OF 0.142 INCH OR LESS. CONNECTIONS USING NAILS AND STAPLES OF OTHER MATERIALS, SUCH AS STAINLESS STEEL, SHALL BE DESIGNED BY ACCEPTED ENGINEERING			(2 1/2"x0.131"x0.281" HEAD)DEFORMED NAIL OTHER WALL SHEATHING ⁹ 1 1/2" × 0.120" GALVANIZED ROOFING NAIL,7/16" HEAD DIAMETER: OR		
 PRACTICE OR APPROVED UNDER SECTION R104.11. BRSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER. 	34	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1 3/4" × 0.120" GALVANIZED ROOFING NAIL, 7/16"	3 6	-
 d. FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY. e. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2). f. FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE END ROOF FRAMING AND TO INTERMEDIATE 	35	25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	HEAD DIAMETER; OR 1 1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN	3 6	DRAWING TITLE
SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 4 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS GREATER THAN 130 MPH IN EXPOSURE B OR GREATER THAN 110 MPH IN EXPOSURE C. GYPSUM SHEATHING SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C1280 OR GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208.	36	1/2" GYPSUM SHEATHING ^d	1 1/2" × 0.120" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1 1/4"LONG 16 GA.; STAPLE GALVANIZED, 11/2" LONG; 7/16" OR 1"	7 7	STRUCTURAL
h. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR	-	5/8" GYPSUM SHEATHING ^d	CROWN OR 1 1/4" SCREWS, TYPE W OR S 1 3/4" × 0.120" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1 1/4" LONG 16 GA.;	7 7	DETAILS
 SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH 		WOOD STRUCTUR	STAPLE GALVANIZED, 1 1/2" LONG; 7/16" OR 1"CROWN OR 1 1/4" SCREWS, TYPE W OR S AL PANELS, COMBINATION SUBFLOOR UNDERLAY	/MENT TO FRAMING	-
THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.	38	3/4" AND LESS	DEFORMED (2"× 0.113") OR DEFORMED (2" × 0.120") NAIL; OR 8d COMMON (2 1/2" × 0.131") NAIL 8d COMMON (2 1/2" × 0.131") NAIL; OR	6 12	-
	39 40	7/8" - 1"	DEFORMED (2" × 0.113"); OR DEFORMED (2 1/2" × 0.120") NAIL 10D COMMON (3" × 0.148") NAIL; OR	6 12 6 12	JOB# : TADU-002 SHEET NO.
	40	1 1/8" - 1 1/4"	DEFORMED (2" × 0.113");OR DEFORMED (21/2" × 0.120") NAIL	6 12	SCALE: AS NOTED DRAWN BY: IRG
					·







PLUMBING KEY NOTES

FOR CONNECTION OF GAS UTILITY SERVICE.

FOR APPROVAL PRIOR TO INSTALLATION.

SANITARY SEWER MAIN LATERAL BRANCH MUST HAVE A MINIMUM SLOPE OF 2%. PROVIDE CLEAN OUTS AT INTERVALS NOT TO EXCEED 100 FT IN STRAIGHT RUNS AND HORIZONTAL CHANGE IN DIRECTIONS EXCEEDING 135' SANITARY SEWER CONNECTION TO CITY SERVICES. PER LOT SPECIFIC BUILDING PERMIT APPLICATION MUST OBTAIN PUBLIC UTILITIES APPROVAL FOR ADU TO HAVE DIRECT CONNECTION TO CITY SERVICES. IF CONNECTING TO (E)UTILITIES THE (E)FIXTURE UNITS MUST BE ACCOUNTED FOR WHEN SIZING SYSTEMS AND VERIFY ADDITIONAL DÉMANDS WILL NOT AFFECT PRIMARY RESIDENCE NEGATIVELY. PROVIDE WITH LOT SPECIFIC BUILDING PERMIT

APPLICATION. DOMESTIC WATER MAIN LATERAL BRANCH. DOMESTIC WATER CONNECTION TO (N)WATER METER AND CITY SERVICES. PER LOT SPECIFIC BUILDING PERMIT APPLICATION MUST OBTAIN PUBLIC UTILITIES APPROVALEOR ADU TO HAVE DIRECT CONNECTION TO CITY SERVICES. IF CONNECTING TO (E)UTILITIES THE (E)FIXTURE UNITS MUST BE ACCOUNTED FOR WHEN SIZING SYSTEMS AND VERIFY ADDITIONAL DEMANDS WILL NOT AFFECT PRIMARY RESIDENCE NEGATIVELY. PROVIDE WITH LOT SPECIFIC BUILDING PERMIT APPLICATION. GAS LINE MAIN LATERAL BRANCH TIE INTO GAS METER. SEE SITE PLAN AND VERIFY WITH LOCAL UTILITY COMPAN

WATER CLOSET WATER CLOSET COMPARTMENT MUST HAVE 30" WIDTH AND 24" CLEAR IN FRONT OF THE WATER CLOSET. LOW-FLOW WATER CLOSETS TO BE INSTALLED (MAXIMUM 1.28 GALLONS PER FLUSH). BRAND AND MODEL NUMBER SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. DOMESTIC WATER FOR WATER CLOSETS SHALL BE PROVIDED AND TIED INTO PASSIVE PURGE FIRE SPRINKLER SYSTEM. WHEN FIRE SPRINKLER SYSTEM IS REQUIRED FOR LOT SPECIFIC BUILDING PERMIT APPLICATIONS. SHOWER: TILE SHOWER O/FIBER CEMENT OR GLASS MAT GYPSUM BACKER. PROVIDE 22" MINIMUM TEMPERED GLASS ENCLOSURE (HINGED SHOWER DOORS SHALL OPEN OUTWARD). INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE AT THE SHOWERS. THE MINIMUM INSIDE IMENSION OF THE SHOWER SHALL BE 30" IN ANY ONE DIRECTION WITH A MINIMUM OF 1,024 SQUARE INCHES. ALL 3-SHOWER OPENINGS SHALL BE RODENT PROOF, WITH 1" CEMENT COVERING IN AN APPROVED MANNER. (SEE DETAIL G/P.1) TUB W/SHOWER OPTION: METAL TUB W/TILE SHOWER O/FIBER CEMENT OR GLASS MAT GYPSUM BACKER PROVIDE 2 MINIMUM TEMPERED GLASS ENCLOSURE (HI<mark>NGED</mark> SHOWER DOORS SHALL OPEN OUTWARD). INDIVIDUAL CONTROL

VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE AT THE SHOWERS. ALL TUB-SHOVED OPENINGS SHALL BE RODENT PROOF, WITH 1" CEMENT COVERING IN AN APPROVED MANNER. PROVIDE INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE AT THE SHOWERS AND TUB-SHOWER COMBINATION. CPC 420. BRAND AND MODEL NUMBER SHALL BE SUBMITTED TO OWNE

HOSE BIBB 3/4" W/NON-REMOVABLE TYPE BACK FLOW PREVENTION DEVICE. HEAT PUMP ELECTRICAL WATER HEATER, INSTALL PER MANUFACTURERS SPECIFICATIONS. PROVIDE MANUFACTURERS SPECIFICATIONS ON JOB SITE, SO THAT THE BUILDING INSPECTOR MAY VERIFY HEAT PUMP NATER HEATER CLEARANCES, WATER HEATER TO BE STRAPPED AT UPPER AND LOWER 1/3 OF IT VERTICAL DIMENSION. SEE TITLE 24 REQUIREMENTS AND MECHANICAL NOTES FOR ADDITION INFORMATION. BRAND AND MODEL NUMBER SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. PLU<mark>MBING VENTS SHALL TERMIN</mark>ATE 10' MINIMUM AWAY FROM A.C. UNIT OUTSIDE AIR INTAKES. RESIDENTIAL PLUMBING NOTES

TER HAMMER ARRESTORS SHALL BE INSTALLED AT THE FOLLOWING QUICK ACTING SHUT-OFF AUTOMATIC WASHER, HOT AND COLD WATER

ICE MAKER DISHWASHER FRONT AND REAR SPRINKLER OUTLETS

SHOWER AND TUB/ SHOWER COMBINATION SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING VALVES TYPE THAT PROVIDE SCALD AND THERMAL SHOCK PROTECTION FOR THE RATED FLOW RATE OF THE INSTALLED SHOWERHEAD. THESE VALVES SHALL BE INSTALLED AT THE POINT OF USE AND IN ACCORDING WITH ASSE 1016 OR ASME A112 18 1/CSAB125 1 ALL PLUMBING CONVEYING OR DISPENSING WATER FOR HUMAN CONSUMPTION SHALL COMPLY WITH AB 1953 FOR FAD CONTEN GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS OR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDING. GAS LINE PRESSURE TESTING IS NOW 10 PS I FOR 15 MINUTES AND WELDED PIPING IS 60 PS I FOR 30 MINUTES. PLASTIC AND COPPER PIPING RUN THROUGH FRAMING MEMBERS TO WITHIN ONE INCH OF THE EXPOSED FRAMING SHALL BE PROTECTED BY STEEL NAIL PLATES NOT LESS THAN 18 GAUGE. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED AS SPECIFIED IN CPC SECTION 609.11. IN ADDITION, PIPING MUST MEET THE REQUIREMENTS OF CALIFORNIA ENERGY CODE SECTION 150(J)(2)(A) I, II, & III. a) 3/4 INCH TO 1 INCH AND HOT WATER PIPING FROM HEATING SOURCE TO KITCHEN FIXTURES SHALL HAVE A MINIMUM OF 1 INCH THICKNESS INSULATION WALL OR R-VALUE OF 7.7.

FIRE SPRINKLER NOTES

AT TIME OF LOT SPECIFIC BUILDING APPLICATION, IT WILL BE DETERMINED BY THE CITY OF FRESNO FIRE PREVENTION BUREAU IF FIRE SPRINKLER WILL BE REQUIRED FOR THE ACCESSORY DWELLING UNIT. IF REQUIRED, APP<mark>ROVE</mark>D FIRE SPRINKLER PLAN SHALL BE INCLUDED IN PLANS PRIOR TO PERMIT ISSUANCE. **PLUMBING** NOTES

WORK INCLUDED

ALL WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR MATERIAL, TRANSPORTATION, EQUIPMENT, AND MISCELLANEOUS SERVICES ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A VECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER SPECIALLY SHOWN OR MENTIONED. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. THESE DRAWINGS ARE DIAGRAMMATIC AND HAVE BEEN PREPARED TO SUGGEST POSSIBLE SIZE ROUTES LOCATION AND TERMINATION OF PLUMBING PIPING AND EQUIPMENT AS REQUIRED TO CONFORM TO APPLICABLE CODES. IT IS NOT THE INTENTION OF THE PLAN PREPARED TO LIMIT THE METHODOLOGY AND/OR MATERIALS UTILIZED BY THE PLUMBING CONTRACTOR WHEN ALTERNATE METHODOLOGY AND/OR MATERIALS COMPLY WITH ALL CODES AND ORDINANCES GOVERNING THIS JURISDICTION. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR <mark>SIZIN</mark>G AND ROUTI<mark>NG OF ALL WASTE,VENT, WATER, GAS, ANE</mark> A/C CONDENSATE LINES AND COORDINATE WITH OWNER FOR SERVICES. THE OWNER SHALL COORDINATE ALL SERVICE CONNECTIONS FOR THE WORK WITH APPROPRIATE AGENCIES. OWNER TO PROVIDE WATER, SEWER, AND GAS SERVICE AND HOOK UP TO WITHIN 5 FEET FROM BUILDING. OWNER TO DETERMINE WATER, SEWER, AND GAS SUPPLY LINE SIZES IN CONFORMANCE WITH CALIFORNIA PLUMBING CODE AND COORDINATE WITH PLUMBER AS TO ANY VARIATION AND/OR CONFLICT FROM DRAWING. ALL WORK MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE TO PERMIT WORK NOT CONFORMING

TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT A. CALIFORNIA PLUMBING CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA ENERGY STANDARDS

T IS THE PLUMBING CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING BUT NOT LIMITED TO METER LOCATIONS, LATERAL LOCATIONS/DEPTH AND PROPOSED POINT OF CONNECTIONS GENERAL NOTES ALL FIXTURES ARE TO BE FURNISHED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE ON PLANS. ALL

FIXTURE<mark>S TO</mark> BE INSTALLED COMPLETE IN ALL RESPE<mark>CTS</mark> WITH TRIM, SEALS, ETC, AS REQUIRED TO MAKE JOB READY FOR SERVICES AND USE. ALL FIXTURES TO BE WHITE (UNLESS OTHERWISE NOTED) PLUMBING CONTRACTOR SHALL SUBMIT FIXTURES SPECIFICATIONS FOR OWNERS APPROVAL ALL PIPING AND EQUIPMENT SHALL COMPLY WITH THE LATEST IAPMO STANDARDS AND ALL APPLICABLE BUILDING CODES, LOCAL OR OTHERWISE. ALL FIXTURES SHALL BE SECURELY ATTACHED TO SUPPORTING SURFACES AS SPECIFIED AND SHALL BE PLUMBED

WALL HUNG FIXTURES SHALL BE SECURELY ATTACHED TO WOOD BLOCKING. AIR CHAMBERS SHALL BE PROVIDED FOR FOR EACH FIXTURE AT HOT AND COLD WATER CONNECTIONS. ALL PIPING SHALL BE PRESSURE TESTED TO THE APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND MINIMUM STANDARDS AS FOLLOWS: SANITARY PIPING: MIN. WATER PRESSURE 5 PSI FOR 15 MINUTES WATER PIPING: MIN. WATER PRESSURE 120 PSI FOR 15 MINUTES. CONNECTIONS BETWEEN COPPER OR BRASS PIPING AND FERROUS MATERIALS SHALL BE MADE WITH APPROVED DIELECTRIC COUPLINGS. PLUMBING CONTRACTOR SHALL REVIEW ALL KITCHEN EQUIPMENT DRAWINGS AND MAKE ALL REQUIRED CONNECTION OF SERVICES TO EACH UNIT.

CHECK EXISTING PLUMBING SYSTEM WITH REFERENCE TO NEW WORK TO BE DONE. IF CONNECTING NEW PLUMBIN TO (E)PLUMBING MAIN BRANCHES THE (E)FIXTURE UNITS MUST BE ACCOUNTED FOR WHEN SIZING SYSTEMS AND VERIFY ADDITIONAL DEMANDS WILL NOT AFFECT PRIMARY RESIDENCE NEGATIVELY. PROVIDE WITH BUILDING PERMIT APPLICATION. RE-ROUTE AND/OR REPLACE PORTIONS (INCLUDING SERVICE) AS NECESSARY FURNISH AND INSTALL ALL FIXTURES INDICATED, COMPLETE FOR NORMAL OPERATION. INSTALL ANY FIXTURES PROVIDED BY OWNER. AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWN STREAM SIDE

OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. SEPARATE PLUMBING PERMIT IS REQUIRED. PLUMBING FIXTURES ARE REQUIRED TO BE CONNECTED TO A SANITARY SEWER OR TO AN APPROVED SEWAGE DISPOSAL SYSTEM. (R 306.3) KITCHEN SINKS, LAVATORIES, BATHTUBS, SHOWERS, BIDETS, LAUNDRY TUBS AND WASHING MACHINE OUTLETS SHA BE PROVIDED WITH HOT AND COLD WATER AND CONNECTED TO AN APPROVED WATER SUPPLY. (R 306.4)

PERFORM NECESSARY EXCAVATIONS AND BACK FILLING FOR INSIDE AND OUTSIDE PLUMBING LINES AND ACCESSORIES. EXCAVATING SHALL BE TRUE TO LINE AND PITCH BACK FILL SHALL BE PLACED LAYERS NOT OVER 8" IN DEPTH. EACH LAYER PROPERLY MOISTENED, SOLIDITY IRON TAMPED, OR OTHERWISE COMPACTED PUDDLING WITH WATER TO ACHIEVE COMPACTION WILL NOT BE PERMITTED. PLUMBING EXCAVATIONS ARE NOT TO BE MADE PARALLEL TO FOOTING BELOW ANGLE OR REPOSE (I.E. BELOW A LINE DRAWN 45° DOWN FROM EACH CORNER OF BOTTOM FOOTING.)

NASTES REGARDLESS OF LENGTH PER CPC

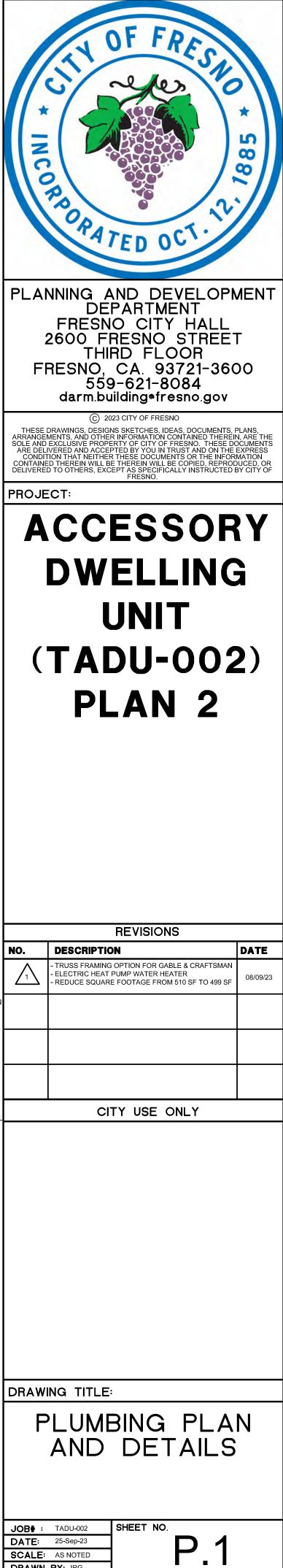
EXCAVATIN

NO PLUMBING LINES SHALL BE RUN IN BEARING FOOTING. DRAINAGE PIPE MATERIALS SHALL BE CAST IRON, GALVANIZED STE<mark>EL, PVC</mark> OR ABS SCHE<mark>DULE 40 DW PLASTIC PIPE, EXCEPT THAT NO GALVANIZED STEEL PIPE SHAL</mark> BE USED UNDERGROUND AND SHALL BE KEPT AT LEAST 6" ABOVE GROUND CHANGES IN DIRECTION OF DRAINAGE PIPING SHALL BE MADE BY THE APPROPRIATE USE OF APPROVED FITTINGS, AND SHALL BE OF THE ANGLES PRESENTED BY 1/16 BEND, 1/8 BEND, OR 1/6 BEND, OR OTHER APPROVED FITTINGS OF EQUIVALENT SWEEP. SANITARY AND POTABLE WATER PIPING SHALL NOT BE INSTALLED WITHIN THE SAME TRENCH EXCEPT WHEN ALLOWABLE BY THE GOVERNING AUTHORITY. DRAINAGE PIPING SHALL BE <mark>CAST IRON, SCHEDULE 40 ABS DWV, OR SCHEDULE 40 PVC DWV. CLEAN OUTS ARE</mark> EQUIRED ON HORIZONTAL WASTE LINES OVER 5' FROM THE MAIN LINE AND ALL HORIZONTAL SINK AND URINAL

WASTE PIPING SHALL BE PITCHED AT A MINIMUM OF 1/4" PER FOOT WHERE POSSIBLE, PIPING GREATER THAN 4 INCHES IN DIAMETER ONLY, MAY BE PITCHED AT A MINIMUM OF, 1/8" PER FOOT, AS REQUIRED, WITH THE APPROVAL OF THE ADMINISTRATIVE AUTHORIT PROVIDE CLEAN OUTS FOR WASTE LINES EXCEEDING 5'-0" FROM THE MAIN. CLEAN OUTS SHALL BE SIZED PER CPC. ALL FLOOR, WALL OR GROUND CLEANOUTS SHALL BE INSTALLED IN A MANNER THAT PROVIDES SUFFICIENT SPACE FOR SERVICE AND IS COMPLETE COMPLIANCE WITH ALL GOVERNING CODES, INSTALLATION OF SOIL OR DRAIN PIPES IN FOOD HANDLING ESTABLISHMENTS WILL COMPLY WITH SECTION 318.0 CPC. ALL FLOOR MOUNTED SANITARY CLEANOUTS SHALL HAVE SKID RESISTANT COVER PLATES, BUILDING DRAIN AND ENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE. WATER PIPING SHALL BE PEX TYPE B TUBING. COPPER, OR GALVANIZED STEEL, PVC WATER PIPING MAY BE FOR COLD PVC WATER, PIPING MAY BE USED FOR COLD WATER DISTRIBUTION SYSTEMS OUTSIDE A BUILDING CPVC WATER PIPING MAY BE USED FOR HOT AND COLD WATER DISTRIBUTION SYSTEMS WITHIN A BUILDING. TYPE 'M'

COPPER PIPING MAY BE USED FOR WATER PIPING ABOVE GROUND IN, OR ON, A BUILDING OR UNDERGROUND OUTSIDE OF STRUCTURE. COPPER TUBE FOR WATER PIPING SHALL HAVE A WEIGHT OF NOT LESS THAN THAT OF COPPER WATER TUB TYPE L. EXCEPTION: TYPE M COPPER TUBING MAY BE USED FOR WATER PIPING WHEN PIPING IS ABOVE POLYETHYLENE PIPING SHALL MEET OR EXCEED SPECIFICATIONS AS A PB 2110 MATERIAL PER ASTM 3309, ANSI A 119.2, CSA B137.7-M-1977, CSA B139.8-M-1977; AND SHALL BE OF PIPING MATERIAL AND INSTALLATIOI SUITABLE FOR ITS INTENDED USE. NO WATER, SOIL OR WASTE PIPE SHALL BE INSTALLED OR PERMITTED OUTSIDE OF A BUILDING OR IN A EXTERIOR WALL, UNLESS WHERE NECESSARY, ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPE FROM FREEZING PIPING SUBJECT TO UNDUE CORROSION, EROSION OR MECHANICAL DAMAGE SHALL BE PROTECTED IN AN

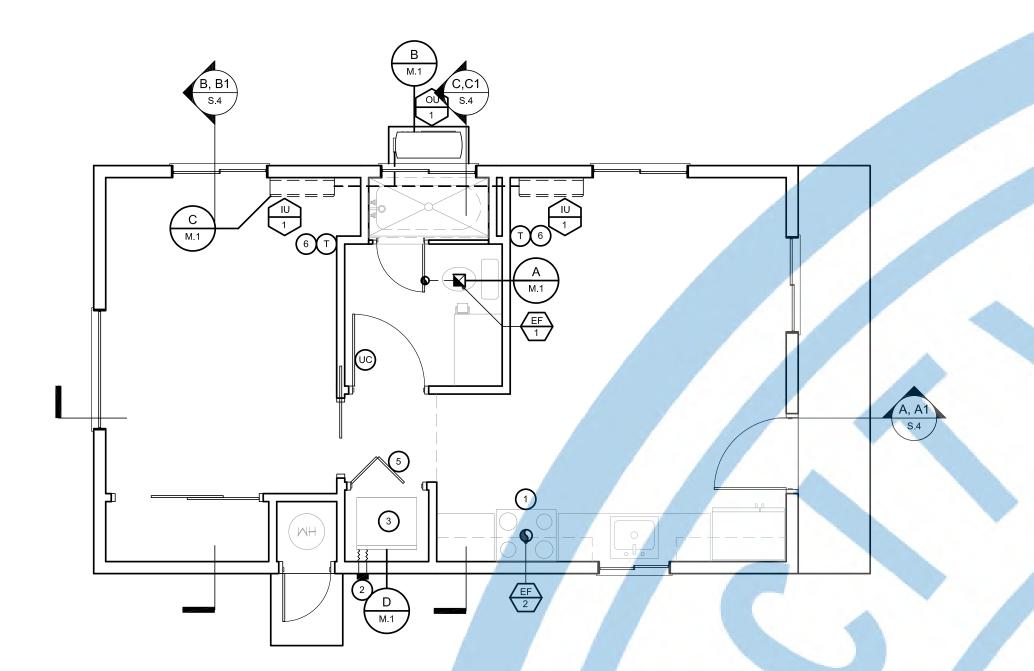
APPROVED MANNER COLD AND HOT WATER PIPING TO FIXTURES SHALL BE THOROUGHLY FLUSHED AND RINSED PRIOR TO PLACING IN SERVICE. HOT AND COLD WATER PIPING SHALL BE INSTALLED A MINIMUM OF 12" APART WHERE PIPING IS PARALLEL.



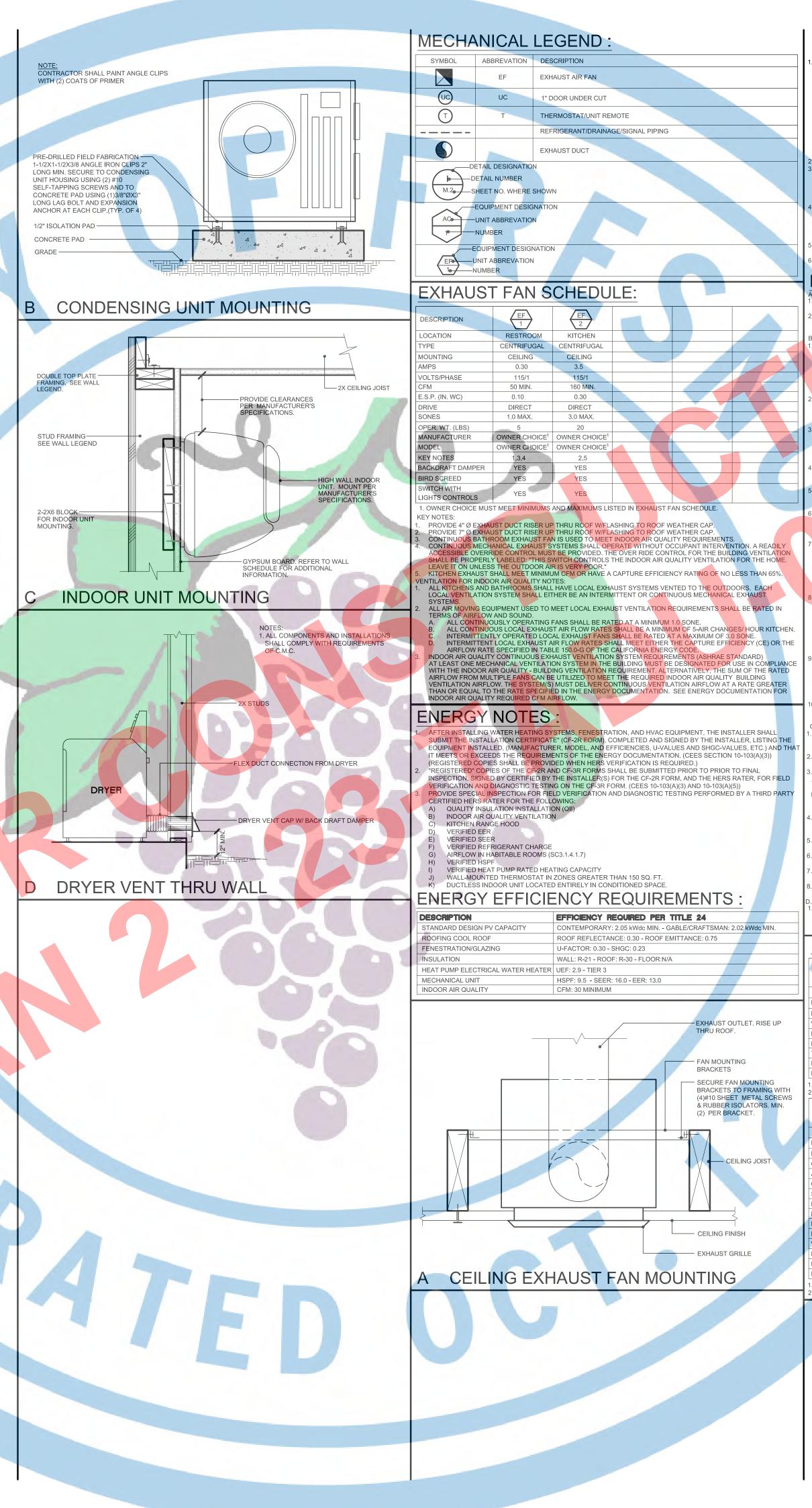
DATE: 25-Sep-23

SCALE: AS NOTED

DRAWN BY: IRG



MECHANICAL PLAN



MECHANICAL KEY NOTES :

ELECTRIC RANGE: HOOD W/FAN W/MICROWAVE O/ELECTRIC RANGE W/OVEN. INSTALL PER MANUFACTURER'S SPECIFICATIONS. PROVIDE MANUFACTURER'S SPECIFICATIONS ON JOB SITE, SO THAT THE BUILDING INSPECTOR MAY VERIFY CLEARANCES. KITCHEN EXHAUST OUTLETS SHALL TERMINATE AT LEAST 2' ABOVE THE ROOF AND SHAL EXTEND AT LEAST 10' ABOVE THE ADJOINING GRADE LEVEL. HOOD SHALL BE VENTED TO THE EXTERIOR WITH A BACK DRAFT DAMPER HAVING A MINIMUM CFM RATING OF 100 CFM AND A SONE RATING NOT GREATER THAN 3-SONE. PROVIDE A MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS: VERTICAL CLEARANCE OF 30" UNPROTECTED, OR 24" PROTECTED. HORIZONTAL CLEARANCE 6" FROM EDGE OF BURNERS.

 THE VERTICAL DISTANCE BETWEEN CANOPY-TYPE HOOD AND COOKING SURFACE SHALL NOT EXCEED 4". UPPER CABINETS SHALL BE A MINIMUM OF 18" ABOVE FINISH DECK OR THE HOOD IS TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS WITH A CLEARANCE AS REQUIRED BY THE RANGE/COOKTOP MANUFACTURERS INSTALLATION INSTRUCTIONS, PROVIDE MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS PER CMC 906.1 AND 508.6. BRAND AND MODEL NUMBER SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.

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PROJECT:

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RATED OCT.

PLANNING AND DEVELOPMENT

DEPARTMENT

FRESNO CITY HALL

THIRD FLOOR

FRESNO, CA 93721-3600

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darm.buildingefresno.gov

C 2023 CITY OF FRESNO

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ACCESSORY

DWELLING

UNIT

(**TADU-002**)

PLAN 2

REVISIONS

- TRUSS FRAMING OPTION FOR GABLE & CRAFTSMAN

DESCRIPTION

NO.

Λ

DATE

2600 FRESNO STREET

DRYER VENT WITH A BACK DRAFT DAMPER. AT EXTERIOR WALL. DRYER: VENT TO OUTSIDE AIR; 4" DIAMETER OR 3 1/2" X 4" RECTANGULAR VENT GOOD FOR A COMBINED HORIZONTAL AND VERTICAL LENGTH NOT TO EXCEED 14'-0" W/ MAXIMUM 2 ELBOWS. OPTION: 5" DIAMETER OR 3 1/2"X6" RECTANGULAR VENT GOOD FOR A COMBINED HORIZONTAL AND VERTICAL LENGTH NOT TO EXCEED 38'-0" W/ MAXIMUM 2 ELBOWS. DEDUCT 6' FOR EACH ADDITIONAL ELBOW. BRAND AND MODEL NUMBER SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. WASHER STACKED UNIT: VENT TO OUTSIDE AIR; 4" DIAMETER OR 3 1/2" X 4" RECTANGULAR VENT GOOD FOR A COMBINED HORIZONTAL AND VERTICAL LENGTH NOT TO EXCEED 14'-0" W/MAXIMUM 2 ELBOWS. OPTION: 5" DIAMETER OR 3 1/2"X6" RECTANGULAR VENT GOOD FOR A COMBINED HORIZONTAL AND VERTICAL LENGTH NOT TO EXCEED 38'-0" W/ MAXIMUM 2 ELBOWS, DEDUCT 6' FOR EACH ADDITIONAL ELBOW, (SEE DETAIL X,X/X,X) BRAND NAME AND MODEL NUMBER SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. m
m (PROVIDE LOUVERED DOOR WITH A MINIMUM OF TWO 100 SQUARE INCH FREE AREAS. ONE OPENING WITHIN 12 INCHES OF THE TOP OF ENCLOSURE AND THE OTHER WITHIN 12 INCHES OF THE BOTTOM OF THE ENCLOSURE. PROGRAMMABLE NIGHT SET-BACK THERMOSTAT/UNIT REMOTE SHALL NOT BE MOUNT MORE THAN 48" A.F.F. PER

MECHANICAL NOTES

CRC SECTION R327.1.2.

VORK INCLUDED

TS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS STACK, VENT, EXHAUST HOOD OR VEHICLE EXHAUST. AIR CONDITIONING EQUIPMENT DESIGNED TO BE IN A FIXED POSITION SHALL BE SECURELY FASTENED, PER 4. MANUFACTURERS INSTALLATION INSTRUCTIONS. INSTALLATION INSTRUCTIONS SHALL BE PROVIDED TO THE FIELD

ALL WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. HE CONTRACTOR IS TO FURNISH LABOR MATERIAL, COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO ISPORTATION, EQUIPMENT, AND MISCELLANEOUS SERVICES ETC. REQUIRED TO IRNISH LABOR MATERIAL COMPLISH THIS RESULT. A ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE NSTALLATION IS TO BE INCLUDED, WHETHER SPECIALLY SHOWN OR MENTIONED. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. THESE DRAWINGS ARE DIAGRAMMATIC REPRESENTATION OF WORK TO BE ACCOMPLISHED AND AS SUCH ARE NOT INTENDED TO SHOW ALL REQUIRED OFFSETS OF PIPING AND DUCK WORK. THE CONTRACTOR SHALL INSTALL ATERIAL AND EQUIPMENT SO AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTION AND MAINTAIN

HEADROOM AND PASSAGEWA THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS A CONSTRUCTION GUIDELINE ONLY AND NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES, VERIFY SCOPE OF WORK WITH CONTRACTOR WHO IS SUPERVISING THE JOB. THE CITY OF FRESNO WILL PROVIDE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS, BUT THE SUPERVISION IS UNDER THE RESPONSIBILITY OF THE CONTRACTOR. SUBMITTALS: CONTRACTOR SHALL SUBMIT A COPY OF EQUIPMENT BROCHURES FOR EACH ITEM FURNISHED. DATA SHALL INCLUDE MANUFACTURES APPROVED INSTALLATION INSTRUCTIONS. SUBMITTALS SHALL BE COMPLETE AND SHALL BE BOUND, INDEXED, AND TABBED. TEST AND ADJUSTMENTS: CONTRACTOR SHALL TEST ALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS, SYSTEM SHALL BE FREE OF OBJECTIONABLE NOISE AND VIBRATION. SYSTEM SHALL BE BALANCED FOR EVEN

DISTRIBUTION OF HEATING AND COOLING. OPERATING INSTRUCTIONS: CONTRACTORS SHALL F ROVIDE OWNER WITH 2 COPIES OF OPERATING AND MAIN<mark>TENAN</mark>CE INSTRUCTIONS, MANUFACTURERS EXTEND WARRANTIES, AND CONTRACTORS WRITTEN WARRANTIES ALL BOUND, INDEXED AND TABBED. MAINTENANCE INSTRUCTIONS SHALL INCLUDE MAINTENANCE WHICH IS REQUIRED TO KEEP EQUIPMENT OPERATING AT MAXIMUM EFFICIENCY. WARRANTY: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FROM DATE OF OWNERS SUBSTANTIAL USAGE OR OCCUPANCY, WHICH EVER IS EARLIER. DAMAGE DUE TO VOLTAGE FLUCTUATION, FIRE, ACTS OF THE ELEMENTS, ACTS OF THE OWNER OR OTHER

PARTIES, IMPROPER MAINTENANCE OR NEGLECT ARE SPECIFICALLY EXCLUDED FROM THE GUARANTEE. ALL REPAIRS SHALL BE PERFORMED DURING NORMAL WORKING HOURS AND SHALL BE MADE PROMPTLY AFTER NOTICE OF FAILURE. IF OWNER REQUEST THAT WORK BE PERFORMED ON OVERTIME, OWNER SHALL PAY THE DIFFERENCE BETWEEN REGULAR AND OVERTIME LABOR AT STANDARD BILLING RATES. ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.

A. CALIFORNIA BUILDING CODE CALIFORNIA PLUMBING CODE CALIFORNIA MECHANICAL CODE CALIFORNIA ELECTRICAL CODE NONRESIDENTIAL CEC ENERGY STANDARDS 2022 MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT DUCTS, GRILLS, REGISTERS, CONTROLS,

THERMOSTATS AND CONDENSATE LINES NECESSARY TO COMPLETE THE JOB, CONTRACTOR SHALL CHALK MARK HIGH AND LOW VOLTAGE ELECTRICAL CONDUIT POINTS OF PENETRATION TO MATCH AIR CONDITIONING UNIT REQUIREMENTS ON THE SHEATHING, WHEN FLASHING IS INSTALLED ON SHEATHING BEFORE ROOFING IS STARTED, CONTRACTOR SHALL ALSO MARK THE GAS AND CONDENSATE PIPING POINTS OF PENETRATION OF THE ROOF SHEATHING. CONTRACTOR SHALL START, TEST AND ADJUST ALL SYSTEMS FOR THE PROPER WORKING OF THE SYSTEMS TO THE SATISFACTION OF THE OWNER AND TENANT, CONTRACTOR SHALL BE RESPONSIBLE FOR THE INITIAL START UP FOR A PERIOD ONE YEAR FROM THE DATE OF ISSUANCE O<mark>F THE C</mark>ERTIFICATE OF OCCUPANCY. EQUIPMENT AND MATERIALS AIR CONDITIONING UNIT MOUNTING AT ALL FRAMES SHALL BE BOLTED OR LAG SCREWED TO STRUCTURAL MEMBERS AT EACH CORNER WITH MINIMUM 3/8"X3" PENETRATION INTO SOLID WOOD. A.C. UNIT SHALL BE BOLTED TO THE SUPPORT FRAME WITH 3/8" MINIMUM BOLTS AT EACH CORNER.

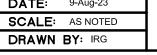
ELECTRICAL VOLTAGE: AIR CONDITIONING CONTRACTOR SHALL CONFIRM ALL SYSTEM VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT AND ALLOW FOR BUCK AND BOOST TRANSFORMERS ON EACH PHASE IF REQUIRED. BY OTHERS: PLUMBING CONTRACTOR: GAS, WATER AND CONDENSATE PIPING INCLUDING FINAL CONNECTIONS WITH SHUT-OFF VALVE. ELECTRICAL CONTRACTOR: ALL POWER AND CONTROL. PROVIDE W/P OUTLET WITHIN 25' FROM EQUIPMENT AND QUICK DISCONNECT. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON AIR CONDITIONING UNITS

CONNECTIONS SHALL BE MADE. TO AN APPROVED LOCATION. BY THE MANUFACTURER

AND NO RIDGE ELECTRICAL CONNECTIONS SHALL BE MADE. CONDUIT, WIRING DISCONNECTS AND FINAL CONNECTIONS, UNLESS OTHERWISE NOTED ON MECHANICAL PLAN. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON AIR CONDITIONING UNITS AND NO RIDGE ELECTRICAL ALL AIR CONDITIONERS TO BE EQUIPPED WITH AN APPROVED CONDENSATE DRAIN. RUN IN AN APPROVED MANNER ALL EQUIPMENT SHALL COMPLY WITH THE CALIFORNIA ENERGY COMMISSION STANDARD, AND SHALL BE CERTIFIED THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT. EQUIPMENT INDICATED ON THESE DRAWINGS ARE SHOWN IN APPROXIMATE LOCATIONS, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT LOCATIONS

ACAVATION, CUTTING, AND FITTING PERFORM THE EXCAVATION, CUTTING, FITTING, REPAIRING, AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE CONSENT OF THE OWNER AND EXCEED NOTCHING REQUIREMENTS

SPECIFIED IN STRUCTURAL DR	AWINGS.			1		E FOOTAGE FROM 510 SF TO 499 SF	08/09/23
MECHANICAL		CHEDULI	E:				
DESCRIPTION			7				
LOCATION	OUTDOOR						
EQUIPMENT	HEAT PUMP						
MOUNTING	GROUND						
VOLTS/PHASE/CYCLE	208/230-1-60 ²						
MCA	30 ²						
MOCP	45 ²						
ТҮРЕ	ROTARY INVERTER				Cľ	TY USE ONLY	
MANUFACTURER	OWNER CHOICE ¹						
MODEL	OWNER CHOICE1						
OWNER CHOICE MUST MEET M VERIFY ELECTRICAL LOADS DE							
DESCRIPTION							
LOCATION	INDOOR						
EQUIPMENT	HIGH WALL	1					
MOUNTING	WALL						
COOLING SYSTEM TONS	0.83 MIN.						
AIRFLOW	333 CFM MIN.						
COOLING RATED CAPACITY	12,000 BTU/HR						
SEER	16.0 MIN.						
EER	13.0 MIN.						
HEATING RATED CAPACITY(47° F)	12,000 BTU/HR						
HEATING RATED CAPACITY(17° F)	7,400 BTU/HR						
HSPF	9.5 MIN.						
VOLTS/PHASE/CYCLE	208/230-1-60 ²						
MCA	0.3125 ²						
MANUFACTURER	OWNER CHOICE1						
MODEL	OWNER CHOICE1						
OWNER CHOICE MUST MEET M VERIFY ELECTRICAL LOADS DE							
				DRAW	ING TITLE		
				ME		NICAL PL	
					AND	DETAILS	
				JOB# :	TADU-002	SHEET NO.	



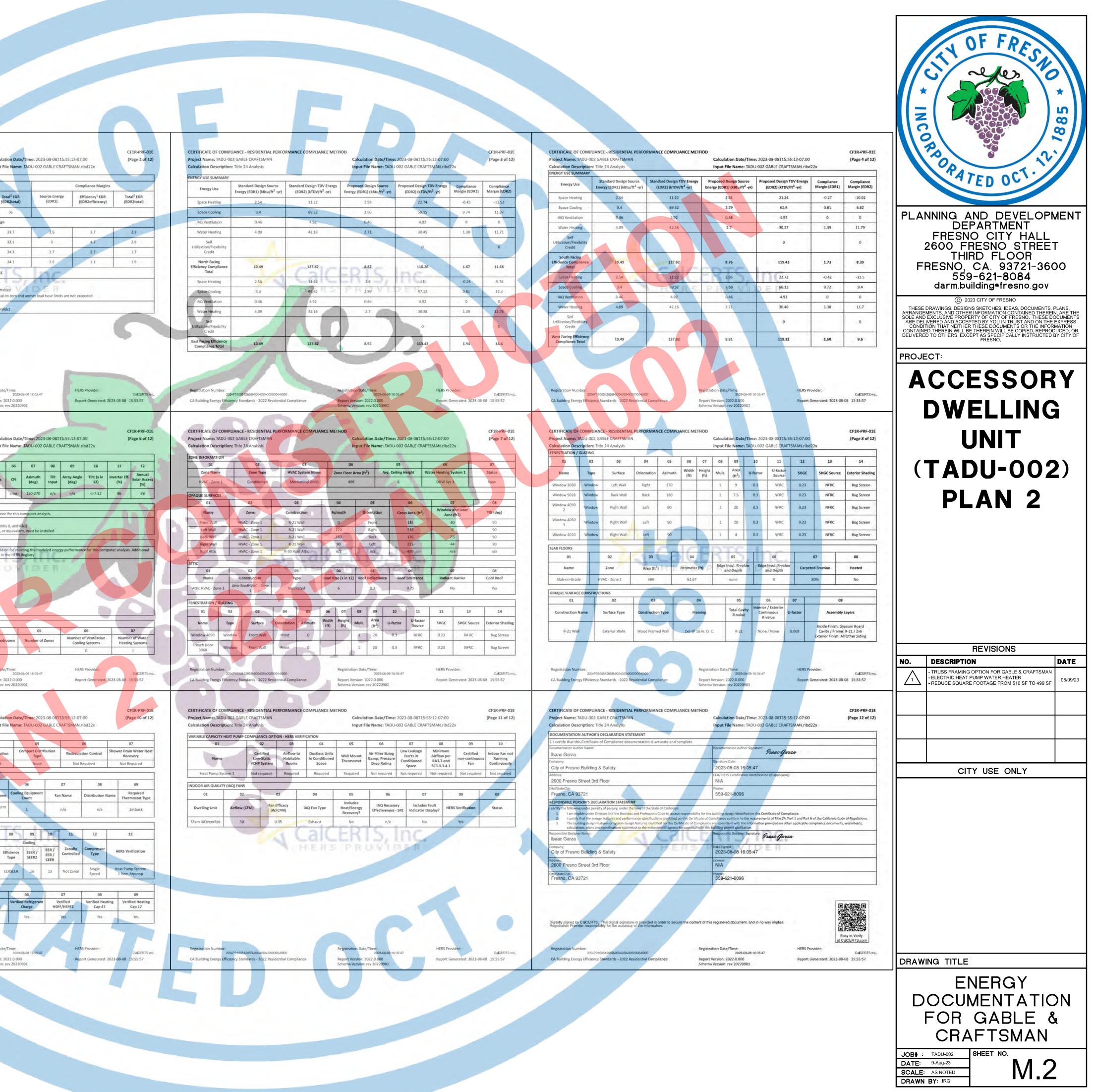
M.1

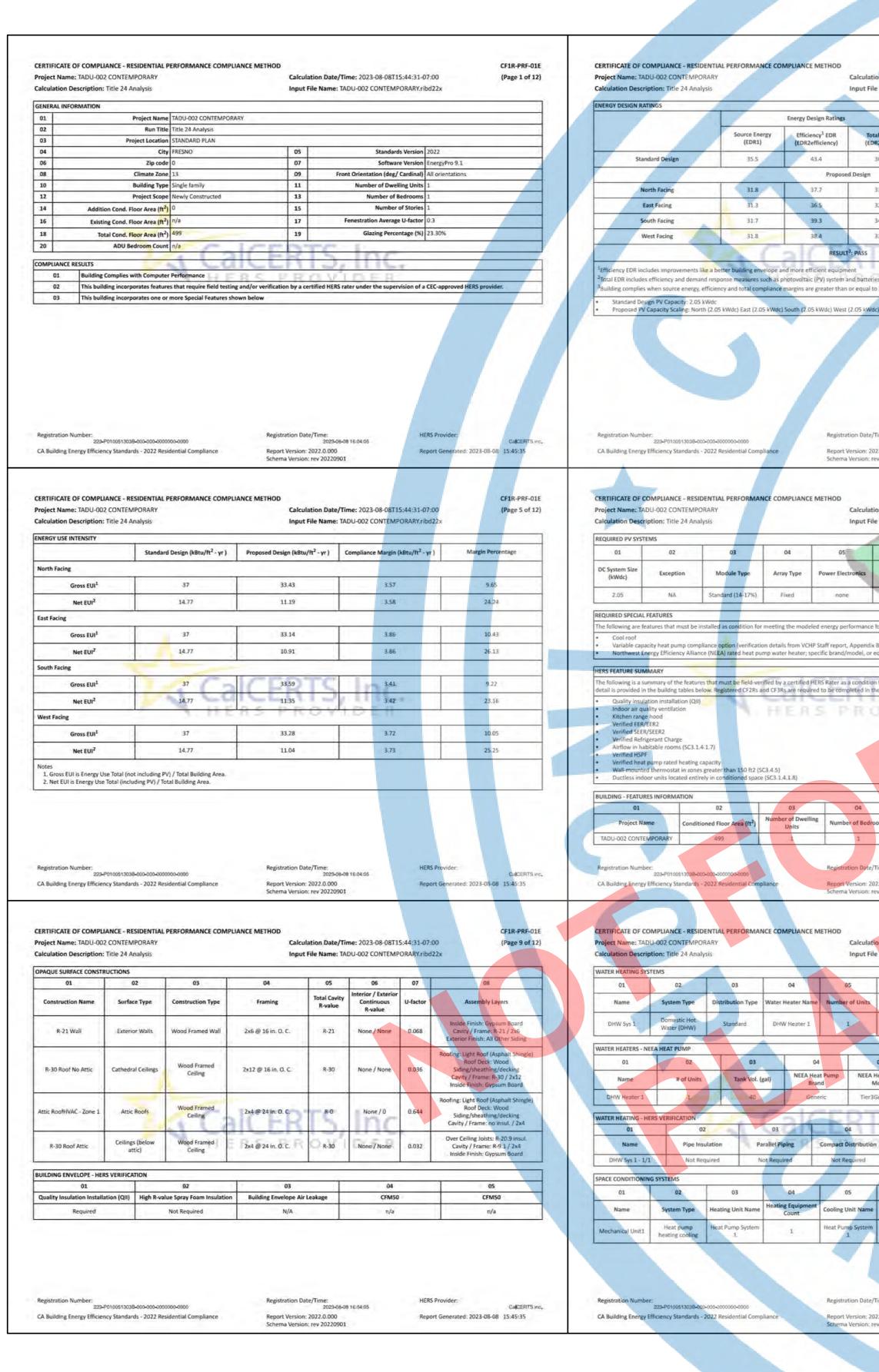
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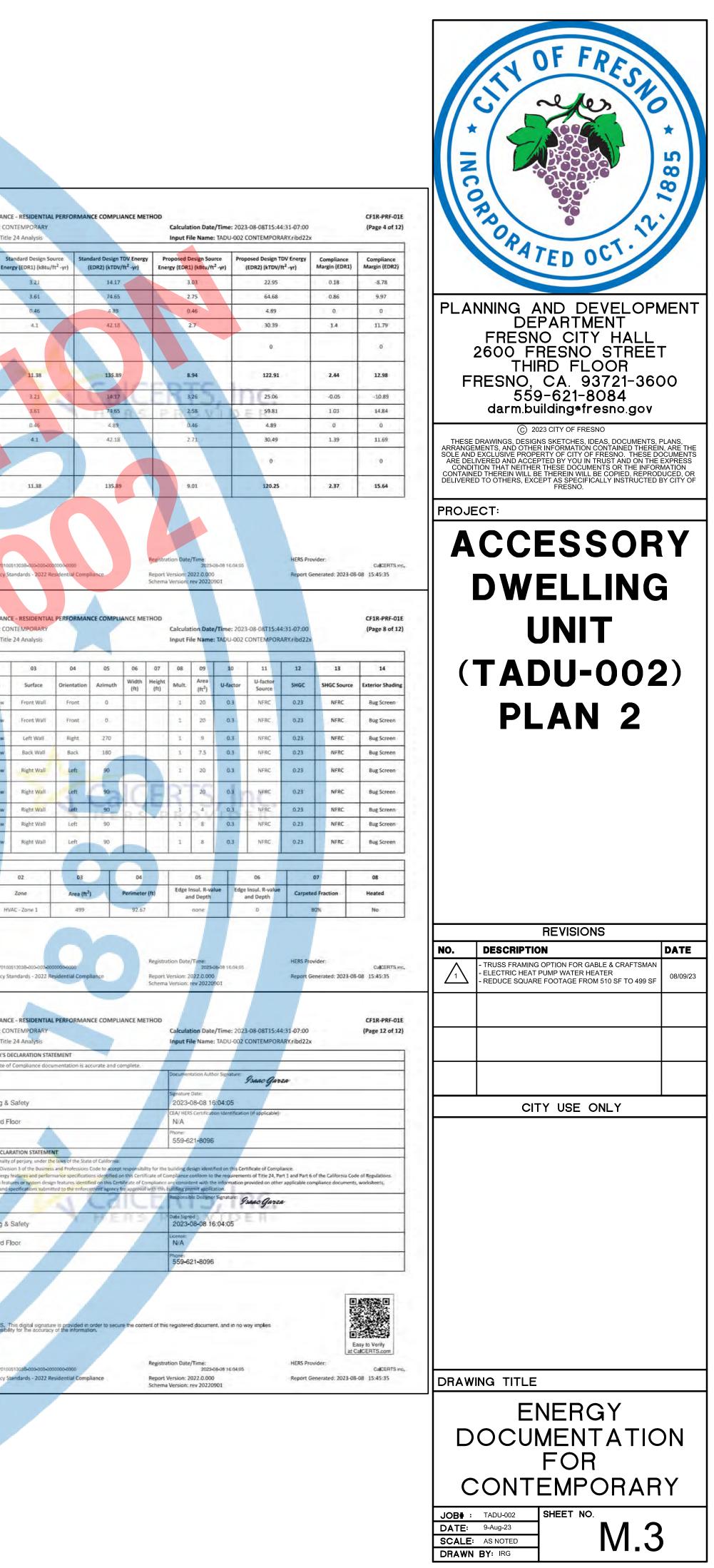
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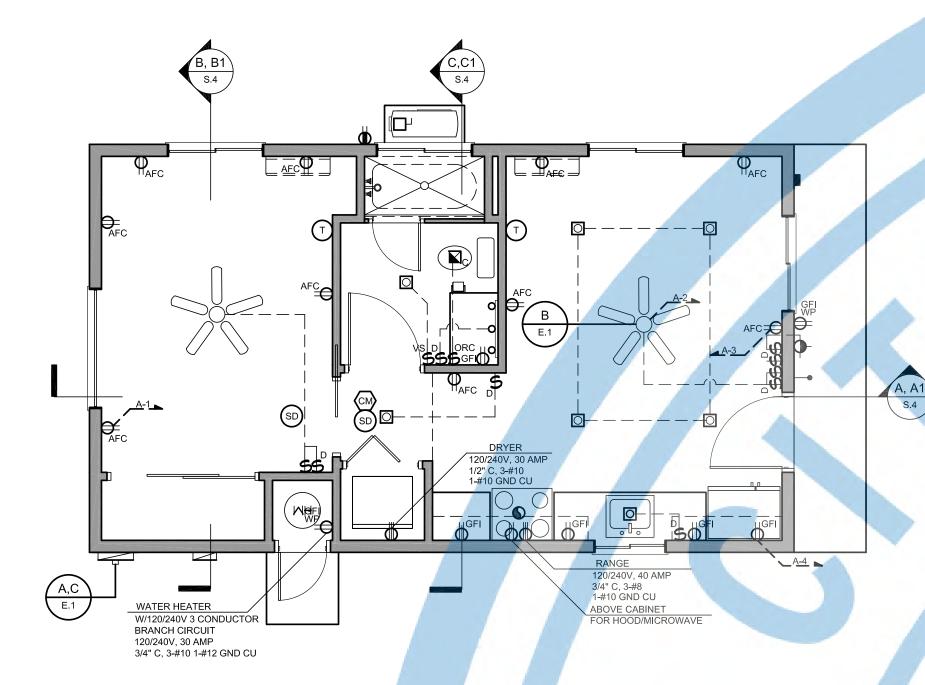
16 18 20 DMPLIANCE RESUL 01 Bu 02 Th	Projec R Project L 2 Clima Buildi	City FRESNO	TSMAN						-	ENERGY DESIGN I	WIIIIO3	17	Energy	y Design Ra
13 14 16 16 10 12 14 16 12 14 16 12 14 16 18 10 10 10 10 10 10 10 10 10 10	Project L 2 Clima Buildi Projec	city FRESNO							-					
6 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Clima Buildi Projec											Source E (EDR		ficiency ¹ ED
8 00 2 4 6 6 6 8 00 00 00 00 00 00 00 00 00 00 00 00 0	Clima Buildi Projec		05			s Version 202 e Version Ene				SI	andard Design	34.7	4	41.8
2 4 5 5 8 0 MPLIANCE RESUL 01 Bu 02 Th	Projec	te Zone, 13	09	Front	Orientation (deg/		orientations:				1	-		Pr
4		ng Type Single family t Scope Newly Constructed	11	-	Number of Dwell Number of B					1	North Facing	32.3		38.1
APLIANCE RESUL 01 Bu 02 Th			15	-		of Stories 1					East Facing	31.7	2	37.1
MPLIANCE RESULT 01 Bu 02 Th	Existing Cond. Floor A		17	-	enestration Average						South Facing	32		39.1
01 Bu 02 Th	Total Cond. Floor A		19		Glazing Percer	ntage (%) 20.	10%	_		4	West Facing	32.1		38.7
02 Th	IS	16	HCER	3.	Inc			-	-	1-		-	(a)	
	uilding Complies with Co		RS PR	TA VI	DER						ncludes improvements les efficiency and dema			
		features that require field test one or more Special Features		certified HERS rate	er under the superv	vision of a CEC	C-approved H	ERS provider.			es when source energy, lesign PV Capacity: 2.02		ompliance margins	are great
												5		
gistration Numbe Building Energy i	223-P010051285B-000-0	00-000000-0000 022 Residential Compliance	Registration D Report Version Schema Versio	2023-08-08 1	16:05:47		Provider: t Generated:	CalCERTS 2023-08-08 15:55:57	nç.	Registration Nun		00-000-000000-0000 - 2022 Residential Cor	npliance	R
iect Name: TAD sulation Descrip	DU-002 GABLE CRAFTS ption: Title 24 Analysi		Calcu		ne: 2023-08-08719 DU-002 GABLE CR4			CF1R-PRF-O (Page S of 1		Project Name: 1 Calculation Des	COMPLIANCE - RESI ADU-002 GABLE CRA cription: Title 24 Ana	FTSMAN	ANCE COMPLIAN	ICE METH
RGY USE INTENS		tandard Design (kBtu/ft ² - yr)	Proposed Design (kBts	w/ft ² -yr)	ompliance Margin (kBtu/ft ² - yr l		Margin Percentage		REQUIRED PV SY	02	03	04	T
rth Facing	1,	(unantir - Ar)			,				-	DC System Size				-
Gross	EUI1	35.92	33.18	1	2.74			7.63		(kWdc)	Exception	Module Type	Array Type	Pow
Net E		14.03	11.29		2.74			19.53	-	2.02	NÄ	Standard (14-17%)	Fixed	
t Facing							-	-	-	REQUIRED SPECIA	AL FEATURES			
Gross I	EUI ¹	35.92	32.97		2.95		1-	8.21		The following are Cool roof	features that must be i	nstalled as condition f	for meeting the mo	deled ene
Net E	UI ²	14.03	11.08		2.95			21.03		 Variable ca 	pacity heat pump comp Energy Efficiency Allian			
uth Facing	1		-1-				-			HERS FEATURE SL	IMMARY			
Gross	EUI ¹	35.92	33.28	TC	2.64		1	7.35		The following is a	summary of the featur in the building tables be			
Net E	UI ²	14.03	11.39	1-1	2.64	9 ··· ·		18.82		Quality ins	ulation installation (QII)			qui cu to c
est Facing		3.10	m > PR	0.44	PEH					Kitchen rar Verified EE				12
Gross I	EUI ¹	35.92	33.1	-	2.82			7.85		 Verified SE 				
Net E	UI ⁷	14.03	11.21	-	2.82			20.1		Airflow in I Verified HS	provide a second s			
tes L. Gross EUI is End	ergy Use Total (not inclu	ding PV) / Total Building Area.								 Wall-mount 	at pump rated heating ted thermostat in zone	s greater than 150 ft2		
		PV) / Total Building Area.									door units located entit	ely in conditioned spa	sce (SC3.1.4.1.8)	
										BUILDING - FEAT	JRES INFORMATION	02	03	
									1	Project	Name Condit	ioned Floor Area (ft ²)	Number of Dw Units	velling
										TADU-002 GABLE	CRAFTSMAN	499	1	
gistration Numbe	223-P010051285B-000-0		Registration Da	2023-08-08	16:05:47		Provider:	CalCERTS	nc.	Registration Nun	223-P0100512858-0	0000-000000-000-00		R
Building Energy I	Efficiency Standards - 20	22 Residential Compliance	Report Version Schema Versio	n: 2022.0.000 on: rev 20220901		Report	t Generated:	2023-08-08 15:55:57		CA Building Ener	gy Efficiency Standards	- 2022 Residential Cor	mpliance	5
TIFICATE OF CO	OMPLIANCE - RESIDE	NTIAL PERFORMANCE COM	LIANCE METHOD					CF1R-PRF-0	LE	CERTIFICATE OF	COMPLIANCE - RESI	DENTIAL PERFORM	ANCE COMPLIAN	NCE METH
	00-002 GABLE CRAFTS				e: 2023-08-08T19			(Page 9 of 1	2)	and the second se	ADU-002 GABLE CRA			
	ption: Title 24 Analysi CONSTRUCTIONS	5	input	THIE Name: TAD	0U-002 GABLE CRA	AFT SIVIAIN.110	0228				cription: Title 24 Ana	17515		
01	02	03	04	05	06 Interior / Exterior	07		80		01	- HERS VERIFICATION	02	03	
onstruction Nar	me Surface Typ	e Construction Type	Framing	Total Cavity R-value	Continuous R-value	U-factor	A	ssembly Layers		Name	Pipe In	sulation	Parallel Piping	Cor
								ht Roof (Asphalt Shingle)		DHW Sys 1	1/1 Not R	equired	Not Required	
c RoofHVAC - Zo	one 1 Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None/0	0.644	Siding	oof Deck: Wood /sheathing/decking		SPACE CONDITIO	NING SYSTEMS			
-				-				Frame: no insul, / 2x4 ing Joists: 8-20.9 insul.		01	02	03	04	
R-30 Roof Attic	Ceilings (beta attic)	w Wood Framed Cetting	2x4 @ 24 in. O. C.	R-30	None / None	0.032	Cavity	/ Frame: R-9.1 / 2x4 Finish: Gypsum Board		Name	System Type	Heating Unit Nam	Heating Equip Count	ment Co
Dillectore		4		4						Mechanical Unit	Heat pump heating cooling	Heat Pump System	n 1	++
LDING ENVELOP	E - HERS VERIFICATION	02	03		04			05						
		h R-value Spray Foam Insulatio		rLeakage	CFM50			CFM50		HVAC - HEAT PUN	MPS 02	03	04 05	06
Requi	red	Not Required	N/A	1-1-	n/a			n/a					Heat	
TER HEATING SYS	1		11211	0.44	DEN			-		Name	System Type		ciency HSPF / HSPF2 /	Cap 47
01	02		14 05	06 Solar Hea		npact	08	09 Water Heater	-	Hunter			LOP	-
Name	System Type	Distribution Type Water He	ater Name Number of Un	hits System		bution	HERS Verifica	tion Name (#)		Heat Pump System 1	VCHP-ductless	I H	(SPF 9,5	24000
DHW Sys 1	Domestic Hot. Water (DHW)	Standard DHW	leater 1 1	n/a	No	one	n/a	DHW Heater 1 (1		HVAC HEAT PUM	PS - HERS VERIFICATION	N		-
TER HEATERS - N	I I I	1	-		1	-			-	01	02	03	04	
01	02	03	04	05	06		07	08		Name.	Verified Airflow	Airflow Target	Verified EER/I	ER2
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump NE Brand	EEA Heat Pump Model	Tank Location	n Duct I	Inlet Air Soun	ce Ouct Outlet Air Sour	ce	Heat Pump Syste 1-hers-htpump		0	Required	
DHW Heater 1	1.	40		ier3Generic40	Outside	HV	/AC-Zone1	HVAC - Zone 1						





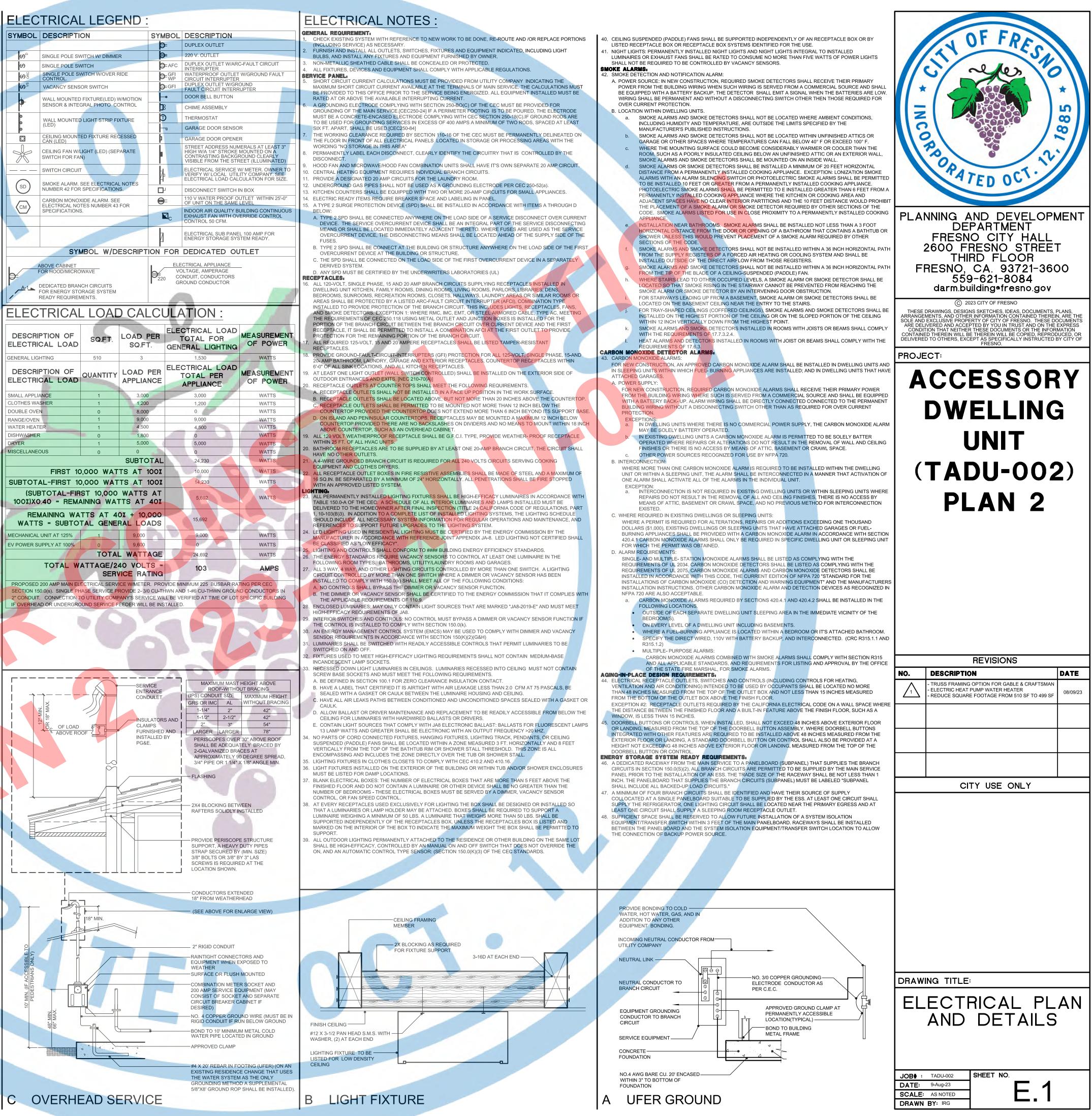
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CF1R-PRF-01E me: 2023-08-08T15:44:31-07:00 (Page 2 of 12) DU-002 CONTEMPORARY.ribd22x	Project Name: TADU-00 Calculation Description	2 CONTEMPORARY	RMANCE COMPLIANCE METH	Calculation Date/Time	2023-08-08T15:44:31-07:00 002 CONTEMPORARY.ribd22		CF1R-PRF-01E (Page 3 of 12)		CERTIFICATE OF C Project Name: TAI Calculation Descri ENERGY USE SUMM
Compliance Margins	ENERGY USE SUMMARY Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)		Energy Use
Source Energy Efficiency ¹ EDR Total ² EDR (EDR1) (EDR2efficiency) (EDR2total)	Space Heating Space Cooling	3.21	14.17 74.65	3.3	24.97 57.6	-0.09	-10.8		Space Heating Space Cooling
	IAQ Ventilation	0.46	4.89	0.46	4.89	0	0		IAQ Ventilation Water Heating
3.7 5.7 3.5 4.2 6.9 4.2	Water Heating Self Utilization/Flexibility	4.1	42.18	2.71	30.49	1.39	0		Self Utilization/Flexibi Credit
3.8 4.1 2.6 3.7 5 3	Credit North Facing								South Facing Efficiency Complia
no	Efficiency Compliance Total	11.38	135.89	EDIC	117.95	2.38	17.94		Total Space Heating
DER	Space Heating Space Cooling	3.21	14.17 74.65	3.02	22.5	0.19	-8.33		Space Cooling
et load hour limits are not exceeded	IAQ Ventilation	0.46	4.89	0.46	4.89	0	0		IAQ Ventiliation Water Heating
	Water Heating Self Utilization/Flexibility	.4.1	42.18	2.7	30.39	1.4	11.79		Self Utilization/Flexibi Credit
	Credit East Facing Efficiency		135.89		114.33				West Facing Efficie Compliance Tot
	Compliance Total	11.38	133.07	8.63	114.33	2.75	21.56		
HERS Provider: CalCERTS Inc. Report Generated: 2023-08-08 15:45:35		-P010051303B-000-000-0000000-000 mcy Standards - 2022 Residential	0	egistration Date/Time: 2023-08-08 16 eport Version: 2022.0.000		rovider. Generated: 2023-08	CalCERTS inc. 3-08 15:45:35	e	Registration Num
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2023-08-08T15:44:31-07:00 (Page 6 of 12) -002 CONTEMPORARY.ribd22x	Project Name: TADU-0 Calculation Description				2023-08-08T15:44:31-07:00 002 CONTEMPORARY.ribd22		(Page 7 of 12)		Project Name: TA Calculation Desc
7 08 09 10 11 12	ZONE INFORMATION	02	63	04	05 06		07		FENESTRATION / G
auth Tilt Array Angle Tilt: (x in inverter Eff. Annual	Zone Name	Zone Type	HVAC System Name Zon	e Floor Area (ft ²) Avg. Ce	ling Height Water Heating		Status		Name
g) Input (deg) 12) (%) (%) 270 n/a n/a <=7:12 96 98	HVAC - Zone 1	Conditioned	Mechanical Unit1	499	9.5 DHW S	ys 1	New		Window 4050
	01	02	03 04		06 Windo	07 w and Door	- 08		French Door 3068
er analysis.	Name Front Wall	Zone HVAC - Zone 1	R-21 Wall 0			ea (ft2) 40	Tilt (deg) 90		Window 3030 Window 5016
t be installed	Left Wall Back Wall	HVAC - Zone 1 HVAC - Zone 1	R-21 Wall 27 R-21 Wall 18	0 Back		9	90		Window 4050 2
e modeled energy performance for this computer analysis. Additional	Right Wall Roof Attic	HVAC - Zone 1 HVAC - Zone 1	R-21 Wall 90 R-30 Robil Attic n/		235 98	60 n/a	90 n/a		Window 4050 3
DER	OPAQUE SURFACES - CAT	HEDRAL CEILINGS	04 05	06 07	08 09	10	11		Window 4010 Window 4020
	Name Zo		Azimuth Orientation	Area (ft ²) Skylight Area (ft ²)	Roof Rise (x in Roof Reflectance	Roof Emittand	ce Cool Roof		Window 4020
	Roof Cathedral HVAC	Zone 1 R-30 Roof No Attic	0 Front	401 0	2 0.3	0.75	Yes		SLAB FLOORS
	ATTIC 01	02	03 04		06	07	08		01
05 06 07	Name Attic HVAC - Zone I	Construction Attic RoofHVAC - Zone	Type Roof Rise Ventilated 2	(x in 12) Roof Reflectance 0.3	Roof Emittance Radia	No.	Cool Roof Yes		Name Slab-on-Grad
Number of Ventilation Cooling Systems Number of Water Heating Systems 1 0 1			Z						
	AD								
HERS Provider: CalCERTS Inc. Report Generated, 2023-08-08 15:45:35		-P0100513038-000-000-0000000-000 mcy Standards - 2022 Residentia	0 I Compliance R	egistration Date/Time: 2023-08-08 16 eport Version: 2022.0.000	04:05	rovider: Generated: 2023-08	CalCERTS inc. 3-08 15:45:35		Registration Nurr
				chema Version: rev 20220901					
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2023-08-08T15:44:31-07:00 (Page 10 of 12) -002 CONTEMPORARY,ribd22x	Project Name: TADU-0 Calculation Description				2023-08-08T15:44:31-07:00 002 CONTEMPORARY.ribd22		(Page 11 of 12)		Project Name: To Calculation Desc
07 08 09	HVAC - HEAT PUMPS	02 03	04 05 06	07 08 09	10 11	12	13		DOCUMENTATION
ing Compact HERS Verification Water Heater Name (#)		Number of	Heating Efficiency HSPF /	Cooling	EER / Zonally C	ompressor	RS Verification		Documentation Auth Isaac Garza Company:
None n/a DHW Heater I (1)		Units	Efficiency Type HSPF2 / Cap 47 COP	Cap 17 Efficiency SEER Type SEER	/ FED / Controlled	Туре			City of Fresno Address:
-06 07 08	Heat Pump System 1	CHP-ductless 1	HSPF 9.5 24000	13500 EERSEER 16	13 Not Zonal		at Pump System -hers-htpump		2600 Fresno S Oty/State/Zip: Fresno, CA 93
06 07 08 Tank Location Duct Inlet Air Source Duct Outlet Air Source	HVAC HEAT PUMPS - HER 01	02 03	04	05 06	07	08	09		RESPONSIBLE PER
Outside HVAC-Zone 1 HVAC-Zone 1	Heat Pumo System	erified Airflow Airflow Tar		Verified Verified Refrig SEER/SEER2 Charge	HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17		1. Fameling 2. Certify 3. The burn
05 06 07	1-hers-htpump	Not Required 0	Required	Required Yes	Yes	Yes	Yes		calculation Responsible Designer Isaac Garza
t Distribution Recirculation Control Shower Drain Water Heat Recovery	VARIABLE CAPACITY HEA	PUMP COMPLIANCE OPTION - 02	03 04	05 06	07 08	09	10		Company: City of Fresho
None Not Required Not Required	Name	Low-Static H	irflow to Ductless Units labitable in Conditioned Rooms Space	Wall Mount Thermostat. Air Filter Sizing & amp; Pressure Drop Rating	Low Leakage Minimum Ducts in Airflow pe Conditioned RA3.3 and Space SC3.3,3.4.	non-continuor	us Running Continuously		Address 2600 Fresno S
07 08: 09 ment San Name Distribution Name Required	Heat Pump System	1 Not required F	Required Required	Required Not required	Not required Not require		Not required		City/State/Zp Fresno, CA 93
Pair Name Discribution Name Thermostat Type	INDOOR AIR QUALITY (IA	Q) FANS 02:03	04	05 06	07	08	09		
n/a n/a Setback	Dwelling Unit	Airflow (CFM) Fan Effican (W/CFM)		Includes Heat/Energy Recovery?		ERS Verification	Status		
	SFam IAQVentRpt:	30 0.35	Exhaust	No n/a	No	Yes	0		Digitally signed by Registration Provid
HERS Provider: CulCERTS inc.	Registration Number:	-P010051303B-000-000-0000000-000		egistration Date/Time: 2023-08-08-16		rovider:	CalCERTS inc.		Registration Num

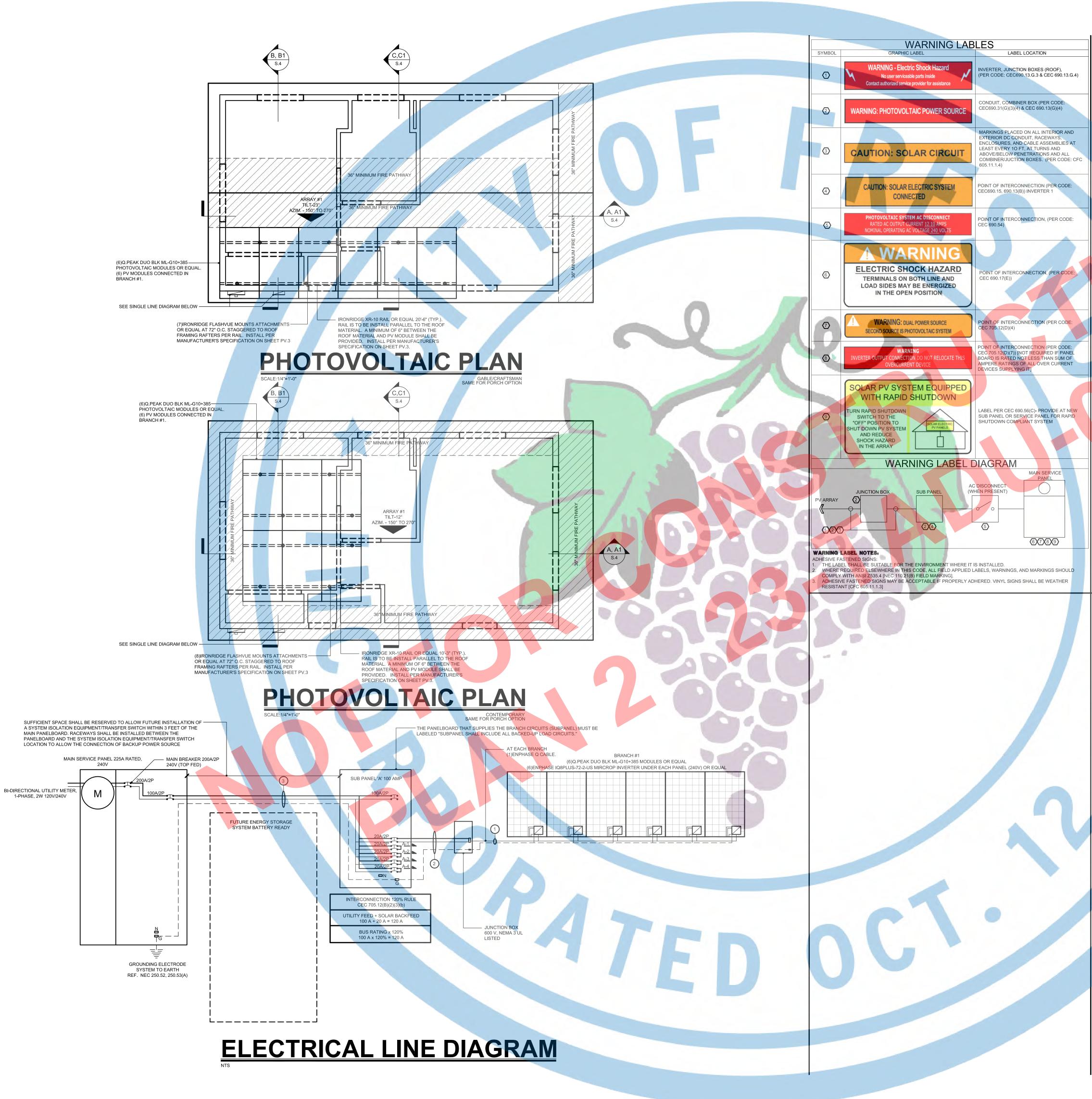




ELECTRICAL PLAN

(SAME DESIGN FOR PORCH OPTIO





DESIGN CRITERIA ROOFING MATERIAL BUILDING STORIES:	DESCRIPTION COMPOSITION SHINGLE 1	ARRAY #	DESCRIPTION ROOF TILT: SEE PV PLAN AZIMUTH: 150° TO 270°	I OF FRES
GROUND SNOW LOAD: WIND SPEED: PV ARRAY WEIGHT EXPOSURE CATEGORY:	0 94 MPH 291.0 LBS C		DC STC RATING: 2.31kW	US reger o
	OF SOLAR PHO			
PHOTOVOLTAIC MODULES MICRO INVERTERS AC COMBINER	Q.PEAK DUO BLK M	ML-G10+385 OR EQUAL JS-72-2-US OR EQUAL N/A	6 6 N/A	
RACKING ATTACMENT RACKING RAIL GENERAL REQUIREMENT	IRONRIDGE	ASHVUE OR EQUAL XR10 OR EQUAL	8 (4) 14'-0" EACH	
 110.2 APPROVAL: ALL EL RECOGNIZED TESTING L ADMINISTRATION. 	IED BEFORE ACTIVATION OF PV ECTRICAL EQUIPMENT SHALL B ABORATORY ACCREDITED BY T	E LABELED, LISTED, OR CEF HE UNITED STATES OCCUP	ATIONAL SAFETY HEALTH	PATED OCT.
4. CONTRACTOR SHALL RE CONSTRUCTION.	ELD VERIFY ALL DIMENSIONS PR VIEW ALL MANUFACTURER INST SOCIATED CONNECTIONS OF IN	TALLATION DOCUMENTS PR	IOR TO INITIATING	TED OU.
QUALIFIED PERSONNEL 6. THE CONTRACTOR OR C	D ALL ASSOCIATED WIRING AND (CEC 690.4(E)). WNER MUST PROVIDE ROOF AC MUST BE OSHA APPROVED, MIN	CCESS (LADDER TO ROOF) F	FOR THE ALL REQUIRED	PLANNING AND DEVELOPMEN
DWELLING AS PER THE 2	INTENDED USE RBON MONOXIDE ALARMS ARE 1019 CRC. THESE SMOKE ALARM T ONE ON EACH FLOOR OF THE	IS ARE REQUIRED TO BE IN	ALL BEDROOMS, OUTSIDE EACH	
BE SOLELY BATTERY OP	EACH BEDROOM AND AT LEAST ERATED IF THE PHOTOVOLTAIC HES INSIDE THE HOME; OTHER CR314, R315)	PROJECT DOES NOT INVOL	VE THE REMOVAL OF INTERIOR	THIRD FLOOR
INSPECTED BY THE INSP 9. CONTRACTOR SHALL VE	DNOXIDE ALARMS ARE REQUIRE ECTOR IN THE FIELD. RIFY THAT THE ROOF STRUCTU VETRATE A MINIMUM 2" INTO SO	IRE WILL WITHSTAND THE A	DDITIONAL LOADS.	 FRESNO, CA. 93721-3600 559-621-8084 darm.buildingefresno.gov
11. AN ACCESS POINT SHAL WINDOWS OR DOORS AN	IMENDATIONS FOR FASTENERS L BE PROVIDED THAT DOES NO RE LOCATED AT STRONG POINT S NOT CONFLICT WITH OVERHE	T PLACE THE GROUND LADI S OF BUILDING CONSTRUC	DER OVER OPENINGS SUCH AS FION AND IN LOCATIONS WHERE	E C 2023 CITY OF FRESNO
(CRC R331.4.2) 12. WHERE DC CONDUCTOF	S ARE RUN INSIDE BUILDING, TI D WITHIN 10" OF THE ROOF DEC	HEY SHALL BE CONTAINED	IN A METAL RACEWAY; THEY	ARRANGEMENTS, AND OTHER INFORMATION CONTAINED THEREIN, ARE SOLE AND EXCLUSIVE PROPERTY OF CITY OF FRESNO. THESE DOCUME ARE DELIVERED AND ACCEPTED BY YOU IN TRUST AND ON THE EXPRE CONDITION THAT NEITHER THESE DOCUMENTS OR THE INFORMATION
13. PLUMBING AND MECHAN BUILDING, PLUMBING, OI MODULES.	ICAL VENTS THROUGH THE ROOR RECHANICAL VENTS TO BE CO	OVERED, OBSTRUCTED OR I	ROUTED AROUND SOLAR	CONTAINED THEREIN WILL BE THEREIN WILL BE COPIED, REPRODUCED, DELIVERED TO OTHERS, EXCEPT AS SPECIFICALLY INSTRUCTED BY CITY FRESNO. PROJECT:
DIRECTLY OR BY DISPLA	NCTION, PULL, AND OUTLET BO CEMENT OF A MODULE SECURE PHOTOVOLTA	ED BY REMOVABLE FASTEN	ERS.	ACCESSORY
12 AWG Q-CABLE	6 AWG BARE COPPER		IT SIZE & TYPE QUANTITY REE AIR 2	
10 AWG THWN 2 AWG THWN	8 AWG THWN 8 AWG THWN		3/4" EMT 3 I 1/2" EMT 3	
VOLTAGE AT 600V; WI	ES: HALL COMPLY WITH MAXIMUM C RE SHALL BE WET RATED AT 90 TAIC SYSTEM CONDUCTORS ON	°C.		UNIT
3. PHOTOVOLTAIC SYST SHALL BE PERMITTED	EM CONDUCTORS SHALL BE IDE BY SEPARATE COLOR-CODING JIT, FITTINGS, AND BOXES SHAL	ENTIFIED AND GROUPED. TH , MARKING TAPE, TAGGING	E MEANS OF IDENTIFICATION OR OTHER APPROVED MEANS	(TADU-002)
5. WHERE CONDUCTOR ENSURE PROPER PRO	S ÁRE INSTALLED UNDERGR <mark>OUI</mark>			
 WHERE SIZES OF JUN THEM ACCORDING TO REMOVAL OF A UTILIT 	CTION BOXES, RACEWAYS, AND APPLICABLE CODES. Y-INTERACTIVE INVERTER OR C EN THE GROUNDING ELECTROD	OTHER EQUIPMENT SHALL N	IOT DISCONNECT THE BUILDING	
9. FOR GROUNDED SYS GROUND-FAULT PRO		IRCE AND OUTPUT CIRCUITS HAT DETECTS A GROUND FA	S SHALL BE PROVIDED WITH A	
AUTOMATICALLY CEA 10. FOR UNGROUNDED S PORT FOR GROUND F	SE SUPPLYING POWER TO OUTI YSTEMS, THE INVERTER IS EQU AULT INDICATION.	PUT CIRCUITS. (CEC 690.35(IPPED WITH GROUND FAUL	C)) T PROTECTION AND A GFI FUSE	
11. PV MODULE FRAMES SPECIFICATIONS.	SHALL BE BONDED TO RACKING	RAIL OR BONDED PER MAN	UFACTURER'S	
				_
				REVISIONS DAT
				- TRUSS FRAMING OPTION FOR GABLE & CRAFTSMAN - ELECTRIC HEAT PUMP WATER HEATER - REDUCE SQUARE FOOTAGE FROM 510 SF TO 499 SF
				CITY USE ONLY
				CITY USE ONLY
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				DRAWING TITLE: PHOTOVOLTAIC SOLAR PLANS
				DRAWING TITLE: PHOTOVOLTAIC SOLAR PLANS

PHOTOVOLTAIC MODULE SPECIFICATION



Q.PEAK DUO BLK ML-G10+ 385-405 **ENDURING HIGH**

ann

VIIIIdttttttt

PERFORMANCE



BREAKING THE 20% EFFICIENCY BARRIER Q.ANTUM DUO Z Technology with zero gap cell layout poosts module efficiency up to 20.9%. **HE MOST THOROUGH TESTING PROGRAMME IN THE INDUST**

Q CELLS is the first solar module manufacturer to pass the most comprehen

sive quality programme in the industry: The new "Quality Controlled PV" of he independent certification institute TÜV Rheinland. NNOVATIVE ALL-WEATHER TECHNOLOGY Optimal yields, whatever the weather with excellent ow-light and temperature behavior.

Long-term yield security with Anti LID Technology, Anti PID echnology¹, Hot-Spot Protect and Traceable Quality Tra.Q **EXTREME WEATHER RATING** High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).

A RELIABLE INVESTMENT Inclusive 25-year product warranty and 25-year linear performance warranty².

APT test conditions according to IEC/TS 62804-1:201 ² See data sheet on rear for further information.

THE IDEAL SOLUTION FOR: Rooftop arrays on residential buildings

Engineered in Germany

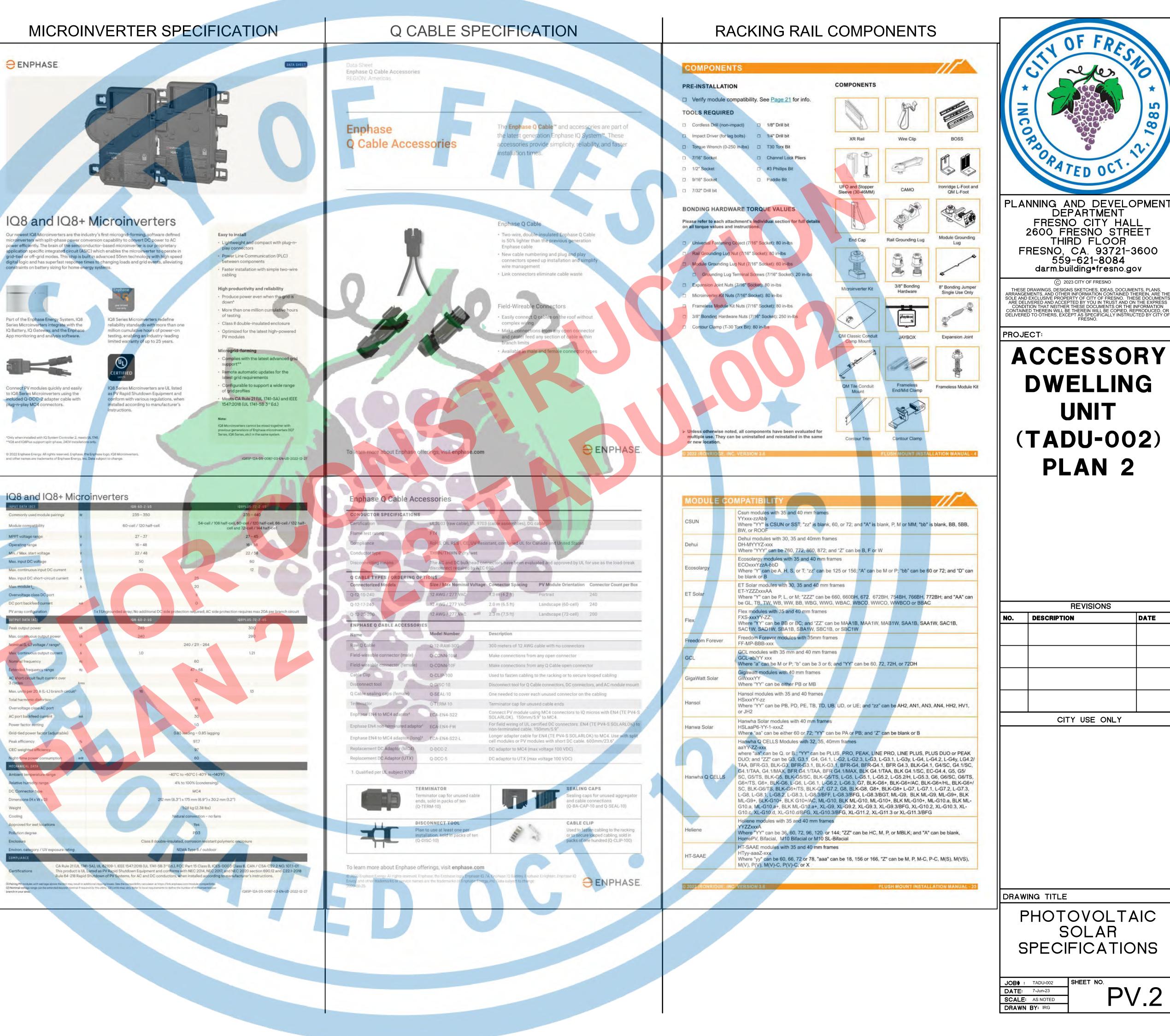
Format	74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm)	74.0° (1479 (m)
Weight	48.5lbs (22.0kg)	
Front Cover	0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology	* - Gounding plattie 0.127 (4.5. mm)
Back Cover	Composite film	
Frame	Black anodized aluminum	
Call	6 x 22 monocrystalline Q.ANTUM solar half cells	0
Junction Box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm). (P67, with bypass diodes	(#0# + #0.2* (1250* ww/)
Cable	4 mm² Solar cable; (+) ≥49.2 in (1250 mm); (-) ≥49.2 in (1250 mm)	to to Damage A
Cannoclar	Staubli MC4; IP68	4 47 Maurilley Pare (DETAIL A)

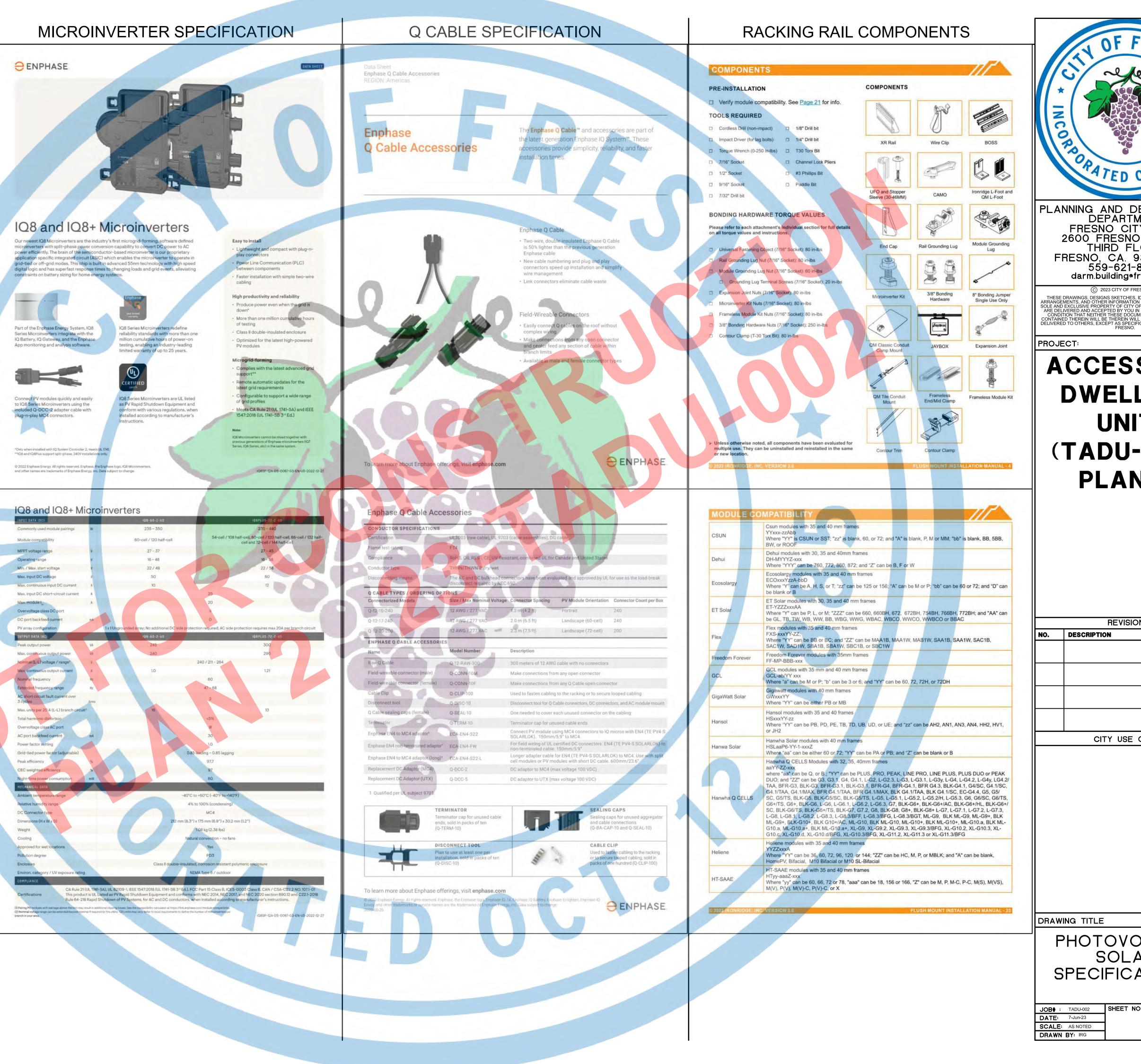
ELECTRICAL CHARACTERISTICS POWER CLASS 390 385 395 400 405 MINIMUM PERFOR Power at MPR 45.23 Open Circuit Voltage 45.19 Current at MPF 10.65 10.59 /oltage at MPP 36.36 36.62 ficiency **MINIMUM PERFORMAN** Power at MPP Open Circuit Voltag 42.62 42,65 GurrenLat MPP Voltage at MPP 35.03 34.59 ment tolerances Pure ±3%; 1 < V = ±5% at STC 1000 W/m², 25 ± 2°C, AM 1.5 according to IEC 60904-3 • 300 W/m², NMCT, spectru Q CELLS PERFORMANCE WARRANTY PERFORMANCE AT LOW IRRADIANCE Inst year. Thereafter max, 0.5% degradation per year. At least 93,5% of nominal power up to 10 years. At east 86% of nominal power up to 25 years. All data within measurement tolerand s. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country emparison to STC conditions (25 °C, 1000 W EMPERATURE COEFFICIENTS a [%/K] +0.04 Temperature Coefficient of Voc ture Coefficient of ¥ [%/K] -0.34 Nominal Module Operating Temperature NMQT PROPERTIES FOR SYSTEM DESIGN 1000 (IEC)/1000 (UL) PV module classification Maximum System Voltage Vala Maximum Series Fuse Rating Pire Rating based on ANSI/UL 617

[A DC] [Ibs/ff²] 75 (3600 Pa) / 55 (2660 Pa) Permitted Module Temperature -40 °F up to +185 °F Max. Design Load, Push/Pull³ [ibs/ft⁻] 113 (5400 Pa) / 84 (4000 Pa) on Continuous Duty (-40 °C up to +85 °C) Max. Test Load, Push / Pull³ ³See Installation Manual PACKAGING INFORMATION QUALIFICATIONS AND CERTIFICATES sity Controlon PM - TOV Resinance

IEC 61215 2015, IEC 61730 2016 Horizontal 76.4in 43.3in 48.0in 1656lbs 24 24 32 packaging 1940mm 1100mm 1220mm 751kg pallets pallets modules 1.5. Fistern No. 9,893.215 (solar celter, GCPV Certification origining Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of

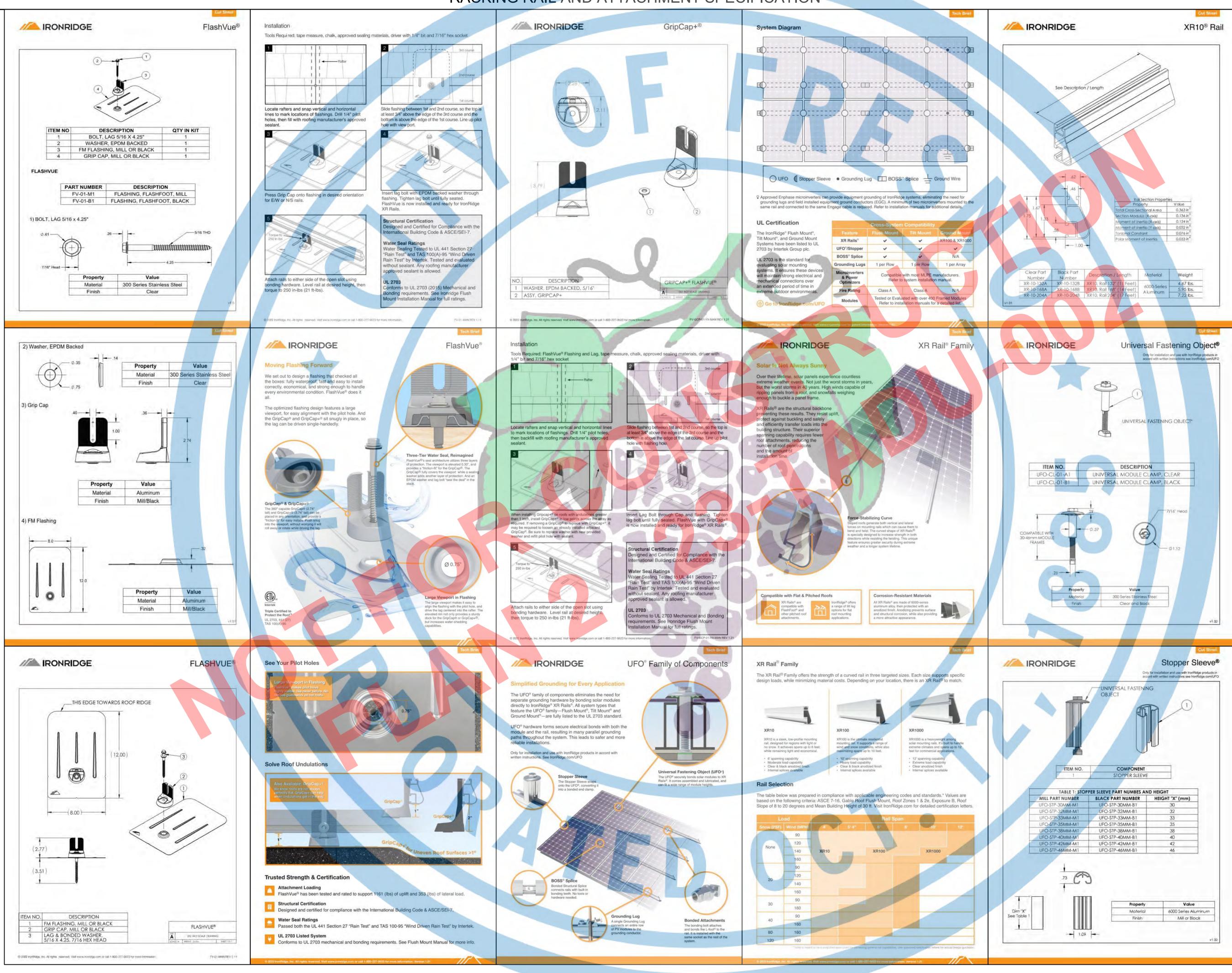
Hanwha G CELLS America Inc 00 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us



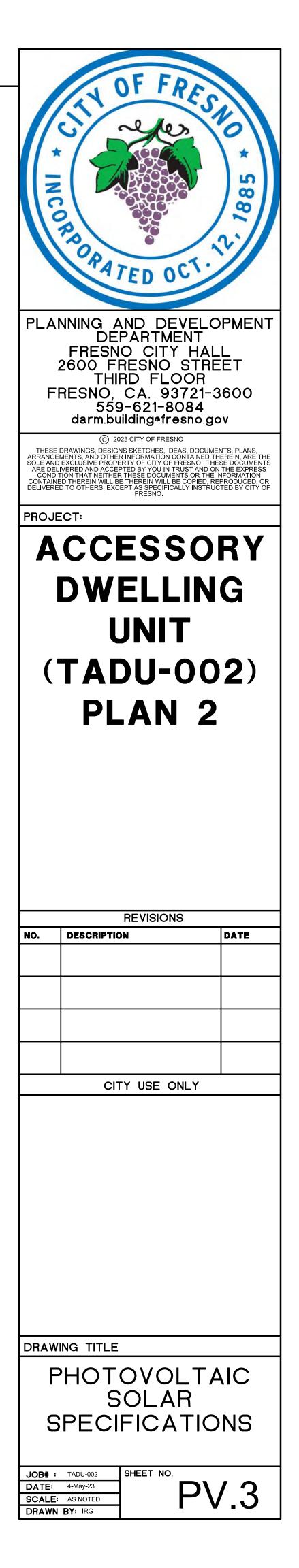


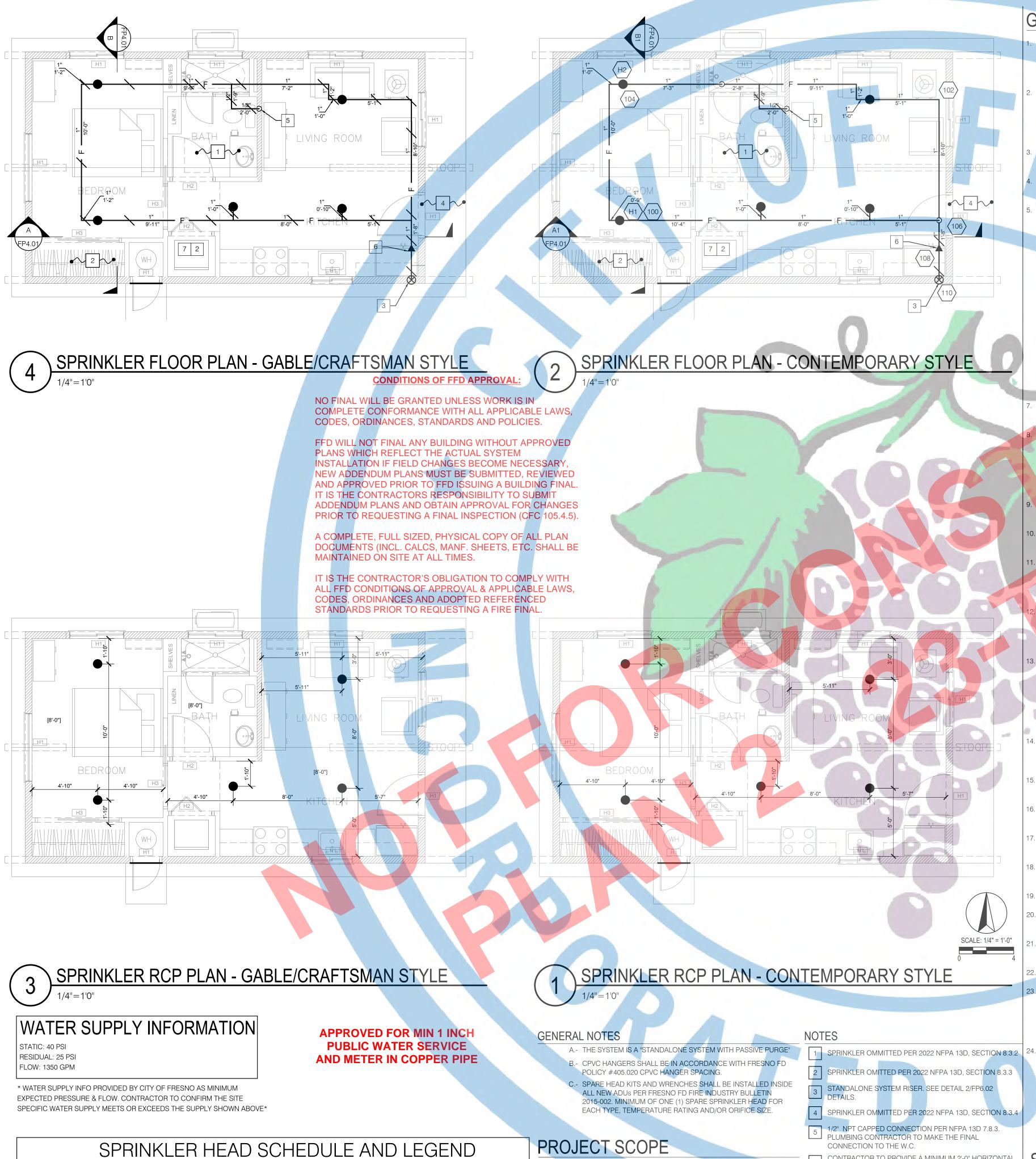
1885

DATE



RACKING RAIL AND ATTACHMENT SPECIFICATION





●	ACOUST. TILES.	SENJU	SS8261	3.7	162°

MANUFACTURER

SIN

K-FACTOR

TEMP.

FRESNO FD APPROVED EQUIVALENT SPRINKLERS MAY BE USED

LOCATION

GYP. BOARD/

SYMBOL

THREAD

SIZE

1/2"

COMMENTS

LAT CONCEALED PENDENT

SPRINKLER

FINISH

WHITE

- - CONNECTION TO THE W.C. CONTRACTOR TO PROVIDE A MINIMUM 2'-0" HORIZONTAL LEAD-IN AT THE TOP OF RISER. REFER DETAIL 2/FP6.02
 - FOR SIZE OF LEAD-IN PROVIDE SPARE HEAD CABINET IN CLOSET OR OTHER PPROVED LOCATION. SEE NOTE C ON THIS SHEET.

GENERAL NOTES

- THE FIRE PROTECTION SYSTEM IS ON A DEFFERED APPROVAL BASIS. THE SUCCES C-16 LICENSED CONTRACTOR SHALL COORDINATE WITH MECHANICAL ENGINEER ARCHITECT, DESIGN AND INSTALL FIRE SPRINKLER SYSTEM FOR ALL CONCEALED / UNCONCEALED AREAS OF THE BUILDINGS AS REQUIRED.
- CONTRACTOR SHALL INSTALL, ROUTE AND SUPPORT AUTOMATIC SPRINKLER SYST PER REQUIREMENTS OF THE CURRENT NATIONAL FIRE PROTECTION ASSOCIATION CODE (NFPA), 2022 NFPA 13D, CALIFORNIA BUILDING CODE / CALIFORNIA FIRE CC (CBC/CFC) CHAPTER 9, CALIFORNIA MECHANICAL CODE (CMC) AND INSURANCES UNDER WRITER'S REQUIREMENTS.
- THE DESIGN COORDINATION AND APPROVALS OF ALL MAINS AND BRANCHES LINE SERVE SPRINKLERS SHALL BE DONE BY A LICENSED FIRE PROTECTION CONTRACT
- 4. SUBMIT SHOP DRAWINGS FOR APPROVAL. SHOP DRAWINGS SHALL BE APPROVED THE CITY OF FRESNO PLAN CHECK DEPARTMENT PRIOR TO COMMENCING.
- LOCATION OF SPRINKLER HEADS SHALL BE DONE BY THE FIRE PROTECTION CONTRACTOR USING THE CRITERIA AS NOTED BELOW:
 - A. IN LOCATIONS WITH SUSPENDED CEILING, THE SPRINKLER HEADS SHALL LOCATED IN THE CENTER OF THE INDIVIDUAL CEILING TILES. THE SPRINKL HEADS PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS MUCH AS POSSIBLE.
- B. IN LOCATIONS WITH PLASTERED OR GYPSUM BOARD CEILINGS, THE SPRI HEAD PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS AS POSSIBLE.
- C. FOR LOCATIONS OF CEILING TILES, DIFFUSERS AND LIGHTS, SEE ARCHITECTURAL REFLECTED CEILING PLANS.
- ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF RENOVAT NEW CONSTRUCTION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND
- NO HOLES SHALL BE DRILLED OR CUT IN OR THROUGH ANY STRUCTURAL ELEME WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINE
- SLEEVE AND GROUT ALL PIPE PENETRATIONS THROUGH FLOORS OR WALLS UNL PENETRATION IS FIRE RATED. WHEN PENETRATING A FIRE RATED FLOOR OR WALL SLEEVE WITH 1" MIN. ANNULAR SPACE AROUND PIPE O.D. FILL ANNULAR SPACE W FIBERGLASS FILL TO 1" FROM END OF SLEEVE. ADD APPROVED FIRE PROOF SEALA FOR THE HOUR RATING OF THE FLOOR OR WALL PENETRATION IN THE REMAINING SPACE.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED TEMPORARY AND PERMANENT PERMITS, INCLUDING LICENSES, CERTIFICATES, INSPECTIONS AND TEST
- 10. ALL PIPE PENETRATION THRU WALLS, RATED OR OTHERWISE SHALL BE COVERED A SPLIT ESCUTCHEON PLATE.
- 11. FIELD OBSERVATION AND SUPPORT SERVICES PERFORMED BY THE ENGINEER PE TO, DURING, OR AFTER CONSTRUCTION IS PERFORMED FOR THE PURPOSE OF CHIEVIN<mark>G QUALITY CONTROL AND SH</mark>ALL NOT BE CONSTRUED AS SUPERVI<mark>SION</mark> CONSTRUCTION.
- PHASING: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GENERAL CONTRACTOR CONSTRUCTION SCHEDULE AND BASED UPON MINIMIZING DISRU TO EXISTING OPERATION. PHASING SHALL BE APPROVED BY ARCHITECT PRIOR T ONSTRUCTION OR DEMOLITION
- ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACT WHO SHALL BE RESPONSIBLE FOR PROMPT DAILY REMOVAL FROM THE SITE. THI CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE RESULTING FROM TH WORK AT THE CONCLUSION OF THE DAY'S CONSTRUCTION. THE AREA OF THE S SHALL BE LEFT BROOM CLEAN. IF NOT, UPON NOTIFICATION, THE GENERAL CONTRACTOR WILL PERFORM ALL NECESSARY CLEAN-UP WORK AND BACK CHAP THE SUB CONTRACTOR FOR THE EXPENSE THUS INCURRED.
- ALL DEVICES AND COMPONENTS TO BE EITHER LISTED BY A NATIONALLY RECOGN TESTING LABORATORY FOR FIRE PROTECTION SERVICE OR APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- FITTINGS FOR HOLE-CUT CONNECTIONS, SUCH AS VICTAULIC "HOOKER" OR EQUIVALENT, ARE NOT ACCEPTABLE AND SHALL NOT BE USED.
- 16. ALL CONTROL VALVES AND DRAIN VALVES SHALL HAVE A SIGN AFFIXED FOR IDENTIFICATION.
- ALL ABOVE GROUND PIPING SHALL COMPLY WITH THE MATERIALS LISTED PER NF Ed. 2022 TABLE 5.2.2.
- . ALL FITTING MATERIALS SHALL COMPLY WITH THE MATERIALS LISTED PER NFPA 13 2022 TABLE 5.2.5.
- . ALL TOILETS SHALL BE EQUIPPED WITH A PASSIVE PURGE.
- OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OR MODIFICATION OF FIRE SPRINKLER SYSTEM.
- A COPY OF THE APPROVED PLAN SET SHALL BE ON SITE DURING ANY FIRE DEPARTMENT INSPECTION
- IT IS THE CONTRACTOR'S RESPONSABILITY TO MAKE WORK AVAILABLE FOR INSPECTION.
- 3. MATERIALS FOR THE BUILDING WATER PIPING AND BUILDING SUPPLY PIPING SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS REFERENCED IN CALIFORNIA PLUMBING CODE, TABLE 604.1. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR USE BOTH UNDERGROUND AND IN BUILDINGS.

HYDRAULIC CALCULATIONS SHALL NOT BE REQUIRED PER FRESNO FIRE DEPARTMENT IF THE ACTUAL WATER SUPPLY IS GREATER OR EQUAL TO THE WATER SUPPLY DATA SHOWN ON THIS SHEET.

SHEET INDEX

FP4.01

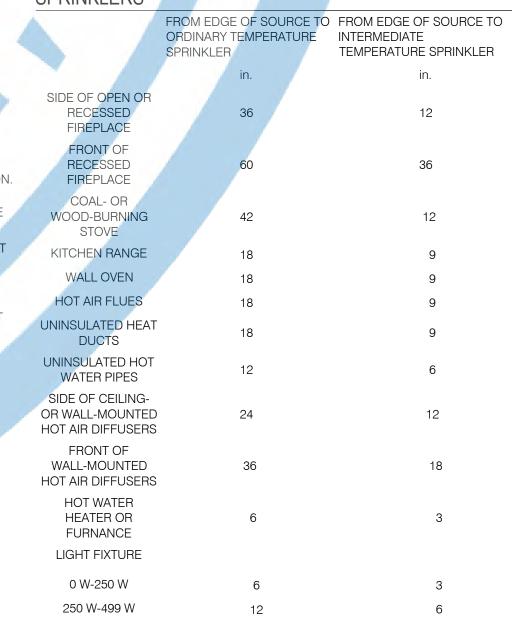
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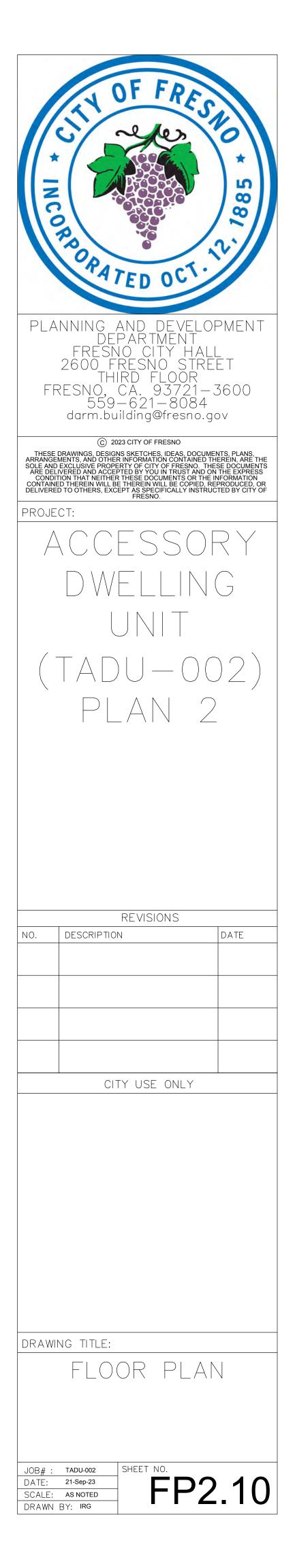
FP6.02

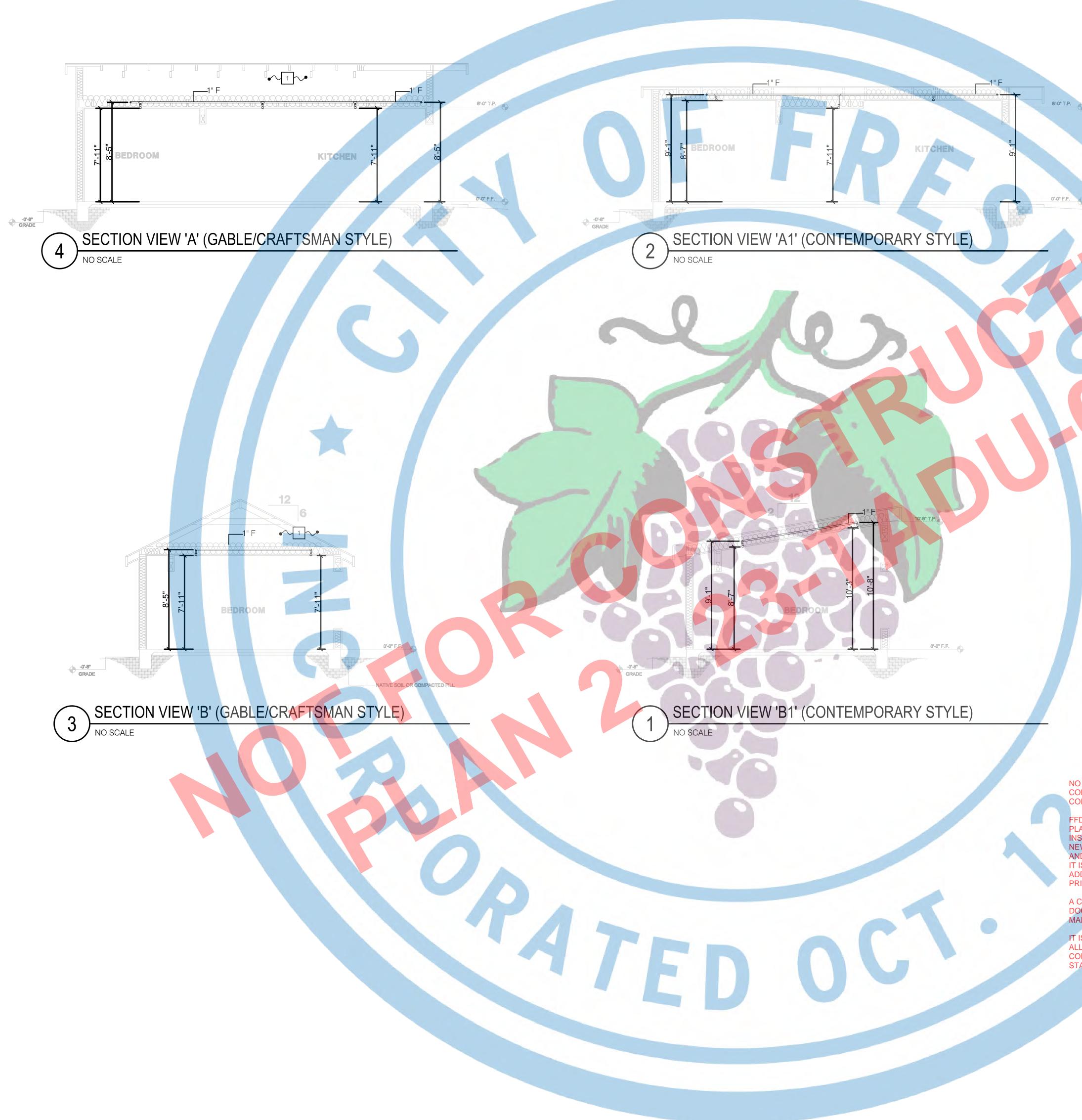
DESCRIPTION
FLOOR PLAN
SECTION VIEW
DETAILS
DETAILS

INSTALLATION OF A NEW FIRE SPRINKLER SYSTEM IN NEW RESIDENTIAL ADU IN ACCORDANCE WITH 2022 NFPA 13D AND LOCAL AUTHORITY POLICIES.

	BUILDING DESIGN INFORMATION	N_
SSFUL ? &) AND	BUILDING DESIGN INFORMATION: -BUILDING OCCUPANCY = R3 -CONSTRUCTION TYPE = TYPE V-B -BUILDING HEIGHT = SEE PLANS	
STEM N DDE	-BUILDING AREA= 499 SF -GOVERNING FIRE CODE= 2022 CFC	
IES TO	SPRINKLER DESIGN CRITERIA - -CLASSIFICATION OF OCCUPANCY= RESIDENTIAL -DESIGN DENSITY= 0.05 GPM/SQ.FT.	
D BY	-DEFLECTOR DISTANCE = 2 IN. MAX -HEAD SPACING = 14 FT. MAX	
	ABBREVIATIONS	
. BE ILER	ABBREVIATION DESCRIPTION AFF ABOVE FINISHING FLOOR	
AS	BFVBUTTERFLY VALVE(E)EXISTINGFHFIRE HYDRANT(N)NEW	
S MUCH	PIVPOST INDICATOR VALVEPOCPOINT OF CONNECTIONPVCPOLYVINYL CHLORIDEUGUNDERGROUND	
ion / . (UL),	W WATER SERVICE PIPING PC PLUMBING CONTRACTOR	
NT	REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.	
ESS	SYMBOL - NOTE CALLOUT	
L, USE VITH ANT G	- NODE USED IN CALCULATION	
ESTS.	- SECTION CALLOUT	
) WITH	[11'-0"] CEILING HEIGHT	
RIOR I OF	X PIPE TAG -NUMBER ON TOP DENOTES PIPE DIAMETER (IN X-X -NUMBER ON BOTTOM DENOTES PIPE LENGTH	
PTIONS O		
TOR		
ITE		
RGE	PENDENT SPRINKLER	
NIZED	PIPE HANGER ELBOW FACING AWAY FROM VIEWER	
1	C ELBOW FACING TOWARD VIEWER	
-PA 13D	MINIMUM DISTANCES FOR ORDINARY AND	
3D Ed.	INTERMEDIATE TEMPERATURE RESIDENTIAL SPRINKLERS	
1	FROM EDGE OF SOURCE TO FROM EDGE OF SOUR ORDINARY TEMPERATURE INTERMEDIATE	ICE TO







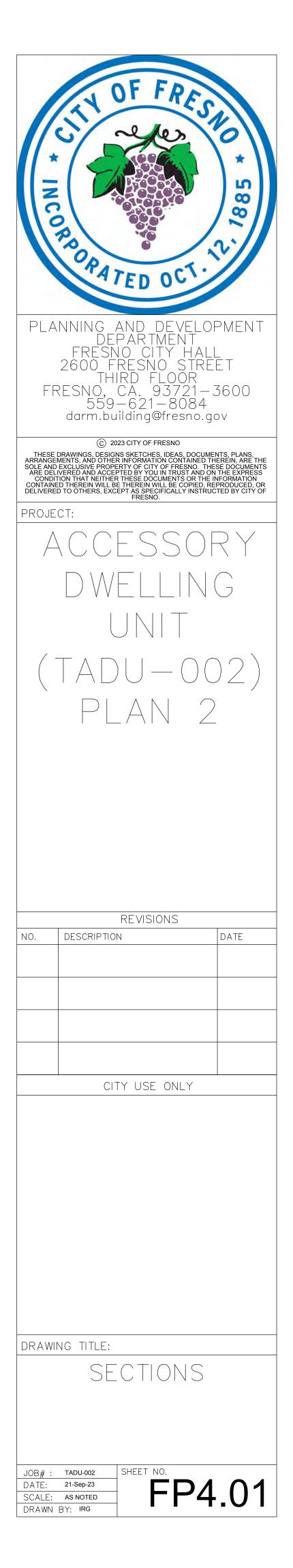
CONDITIONS OF FFD APPROVAL:

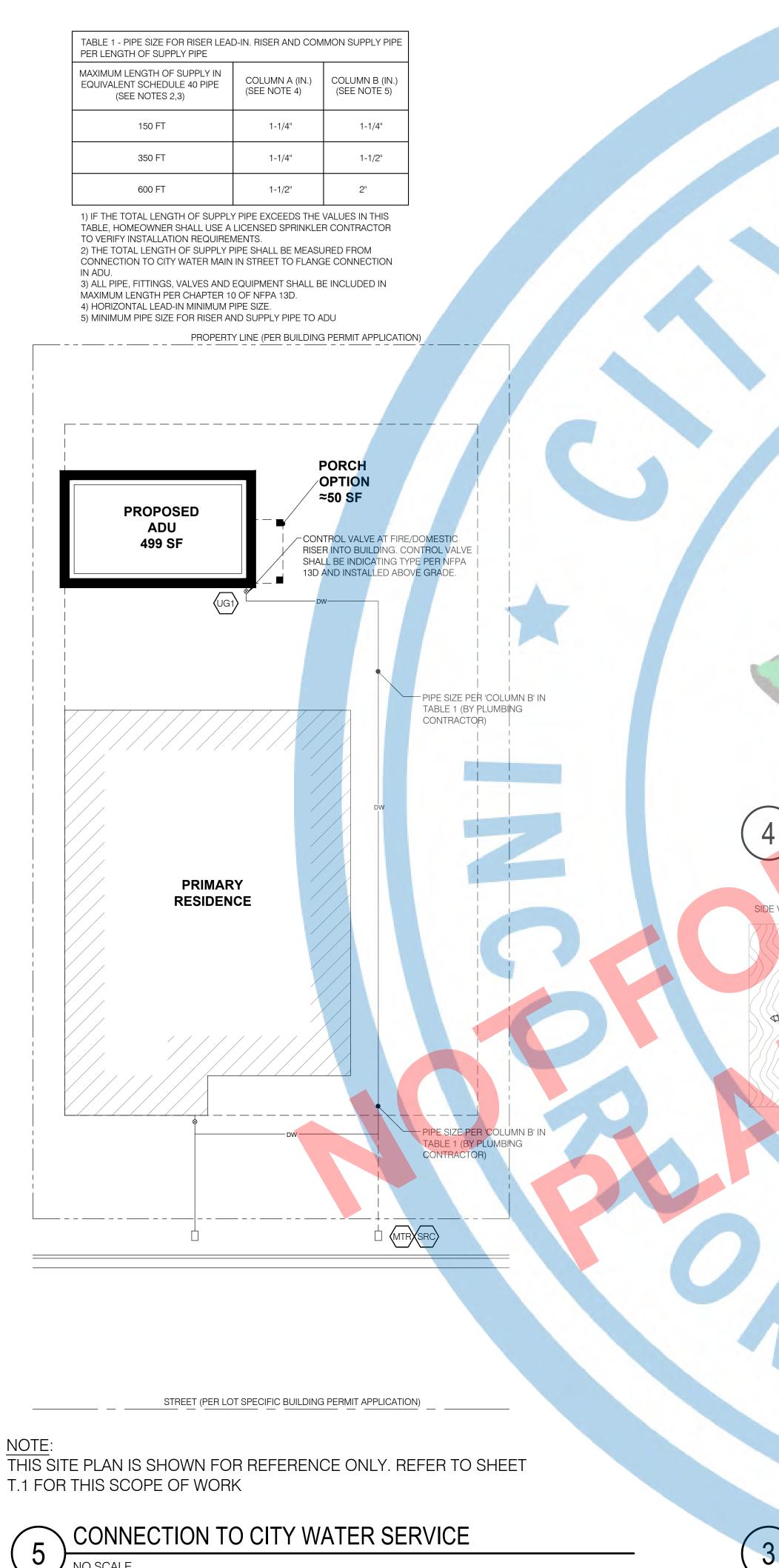
NO FINAL WILL BE GRANTED UNLESS WORK IS IN COMPLETE CONFORMANCE WITH ALL APPLICABLE LAWS, CODES, ORDINANCES, STANDARDS AND POLICIES.

FFD WILL NOT FINAL ANY BUILDING WITHOUT APPROVED PLANS WHICH REFLECT THE ACTUAL SYSTEM INSTALLATION IF FIELD CHANGES BECOME NECESSARY, NEW ADDENDUM PLANS MUST BE SUBMITTED, REVIEWED AND APPROVED PRIOR TO FFD ISSUING A BUILDING FINAL. IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT ADDENDUM PLANS AND OBTAIN APPROVAL FOR CHANGES PRIOR TO REQUESTING A FINAL INSPECTION (CFC 105.4.5).

A COMPLETE, FULL SIZED, PHYSICAL COPY OF ALL PLAN DOCUMENTS (INCL. CALCS, MANF. SHEETS, ETC. SHALL BE MAINTAINED ON SITE AT ALL TIMES.

IT IS THE CONTRACTOR'S OBLIGATION TO COMPLY WITH ALL FFD CONDITIONS OF APPROVAL & APPLICABLE LAWS, CODES, ORDINANCES AND ADOPTED REFERENCED STANDARDS PRIOR TO REQUESTING A FIRE FINAL.





NO SCALE

3

SPRINKLER PIPING PER PLAN —

CONDITIONS OF FFD APPROVAL:

NO FINAL WILL BE GRANTED UNLESS WORK IS IN COMPLETE CONFORMANCE WITH ALL APPLICABLE LAWS, CODES, ORDINANCES, STANDARDS AND POLICIES.

FFD WILL NOT FINAL ANY BUILDING WITHOUT APPROVED PLANS WHICH REFLECT THE ACTUAL SYSTEM INSTALLATION IF FIELD CHANGES BECOME NECESSARY NEW ADDENDUM PLANS MUST BE SUBMITTED, REVIEWED AND APPROVED PRIOR TO FFD ISSUING A BUILDING FINAL. IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT ADDENDUM PLANS AND OBTAIN APPROVAL FOR CHANGES PRIOR TO REQUESTING A FINAL INSPECTION (CFC 105.4.5)

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PIPING PER PLAN

PENDENT SPRINKLER -

1" x ARMOVER

SPRINKLER PIPING DETAILS

NO SCALE

NOT USED

- HARDENED HEX HEAD SELF THREADING SCREW IS FURNISHED WITH THE HANGER AND IS 1/4" X 1" TEKS TYPE.

- SPRINKLER PIPE PER PLANS -

PIPE HANGER SPACING

MAX. SPACING

6'-0"

6'-6"

7'-0"

8'-0"

CPVC SINGLE FASTENER STRAP

PIPE SIZE

1/4".....

1/2"...

GENERAL NOTE: NFPA 13D 2022 TABLE 8.2.5.3.2 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (RESIDENTIAL UPRIGHT AND PENDENT)

NOTES

1 SPRINKLER PIPE DROP.

2 PENDENT SPRINKLER HEAD.

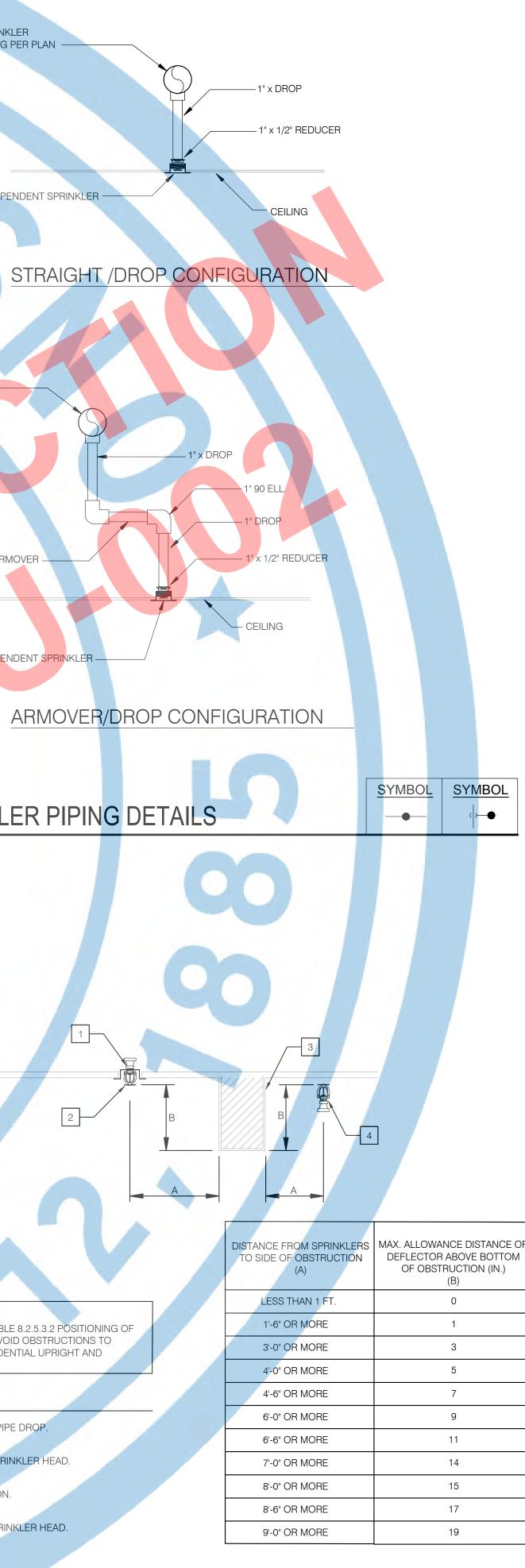
3 OBSTRUCTION.

NO SCALE

4 UPRIGHT SPRINKLER HEAD.

CPVC PIPE HANGER DETAIL - UP TO 2"

NO SCALE



OBSTRUCTION TABLE FOR RESIDENTIAL SPRINKLERS



