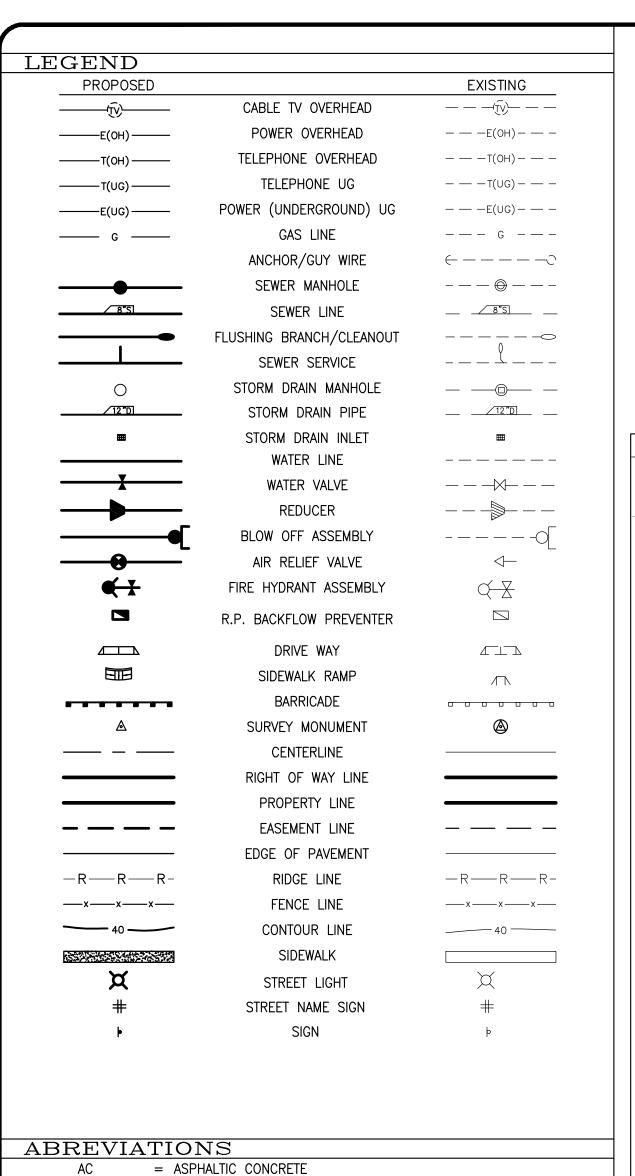
AREA MAP

OREGON



= AGGREGATE BASE= ALGEBRAIC DIFFERENCE

= CORRUGATED METAL PIPE

= HIGH DENSITY POLYETHYLENE PIPE

= MECHANICALLY STABILIZED EARTH

= BEGIN CURVE = CLEAN OUT = CENTER LINE

= COMPACT
= DELTA
= DETAIL
= DRAIN
= EXISTING
= END CURVE
= EXISTING GROUND
= EDGE OF PAVEMENT
= FINISH FLOOR

= FINISH GRADE = FIRE HYDRENT = FLOW LINE = GUY ANCHOR = GATE VALVE = HANDICAPPED

= INVERT

= LEFT

= NEW

= MASONRY = MILES

= INTERSECTION = SIGHT DISTANCE

= LINEAR FEET

= NOT TO SCALE = ON CENTER

= PROPOSED = POWER POLE

= PRIVATE = RIGHT = RETERN = SET BACK

= SHEET

= STATION

= STANDARD

= STORM DRAIN

= TOP OF CURB = TOP BACK OF CURB

= TELEPHONE

= TOP OF WALL

= UNDERGROUND

= TYPICAL

= WATER = WATER VALVE

= TOP FACE OF CURB = TOP OF BANK

= TOP OF PAVEMENT

= TRINITY VALLEY CONSULTING ENGINEERS

= PACIFIC GAS & ELECTRIC

= POINT OF REVERSE CURVE

= STORM DRAIN MAN HOLE

= POINT OF VERTICAL INTERSECTION

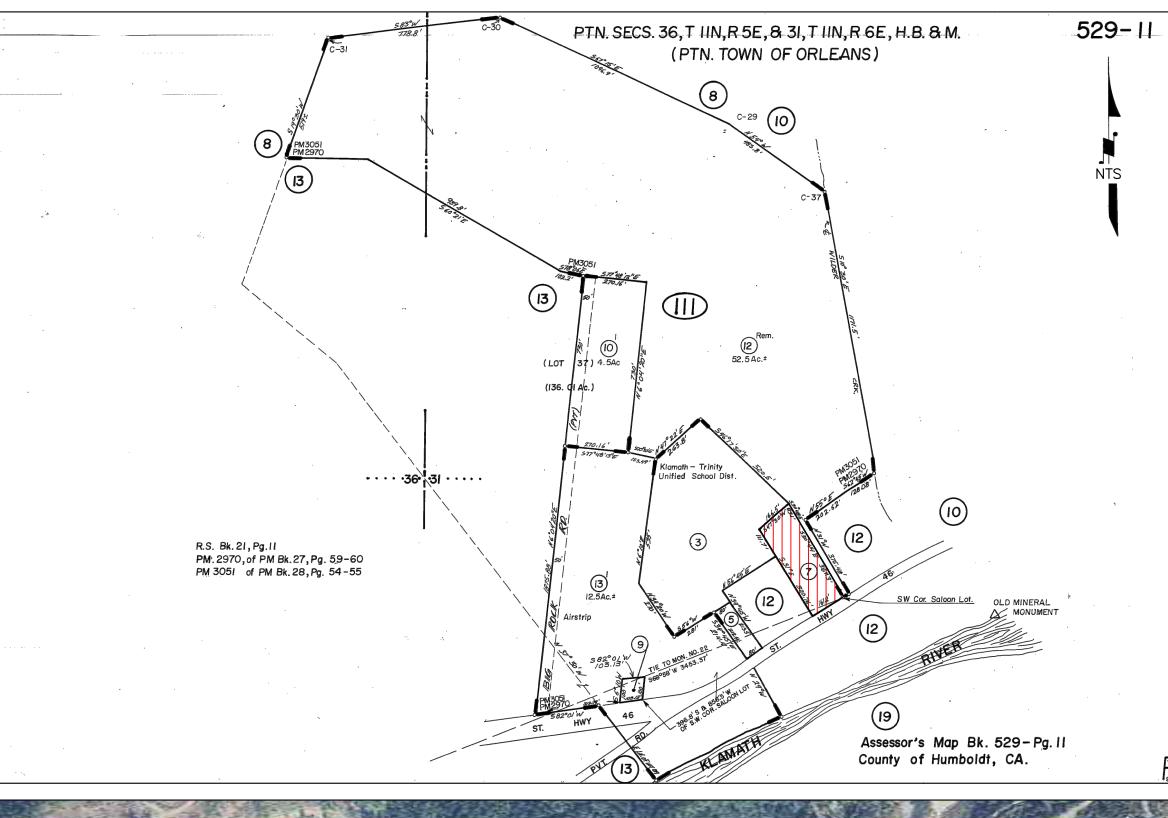
= LOCAL DEPRESSION

= SEWER LEACH FIELD

## ORLEANS HOME DEVELOPMEN FOR

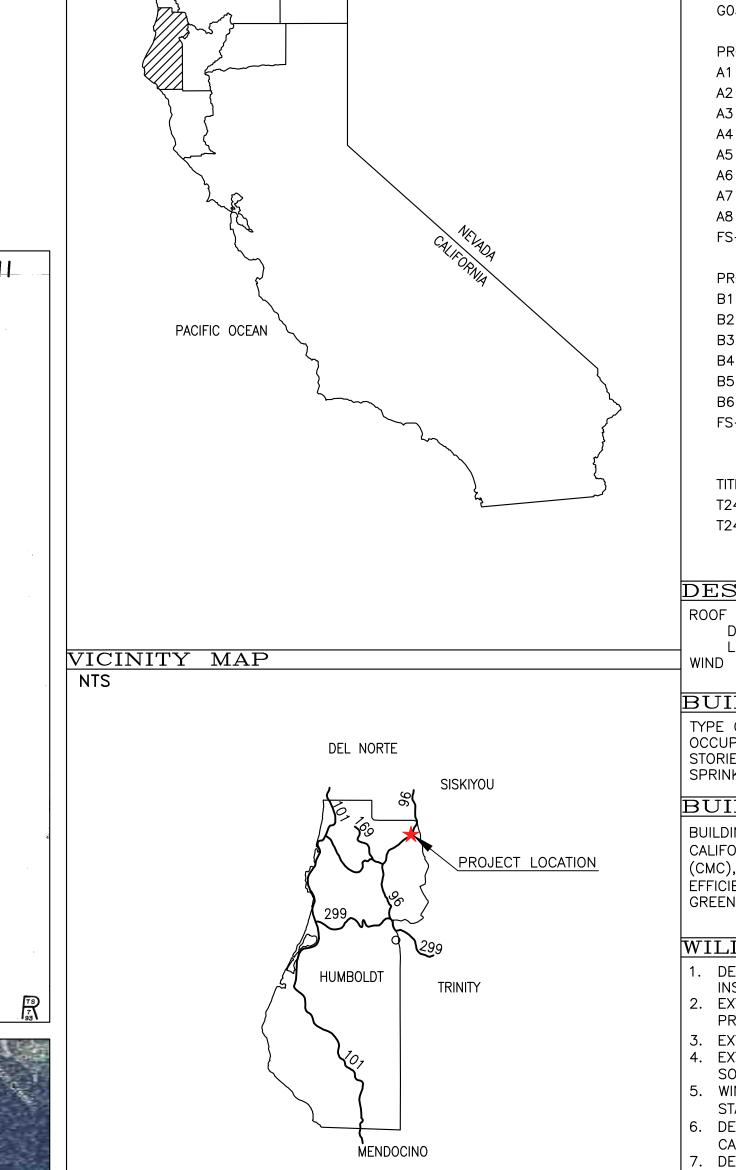
# KARUK TRIBE HOUSING AUTHORITY APN: 529-111-007

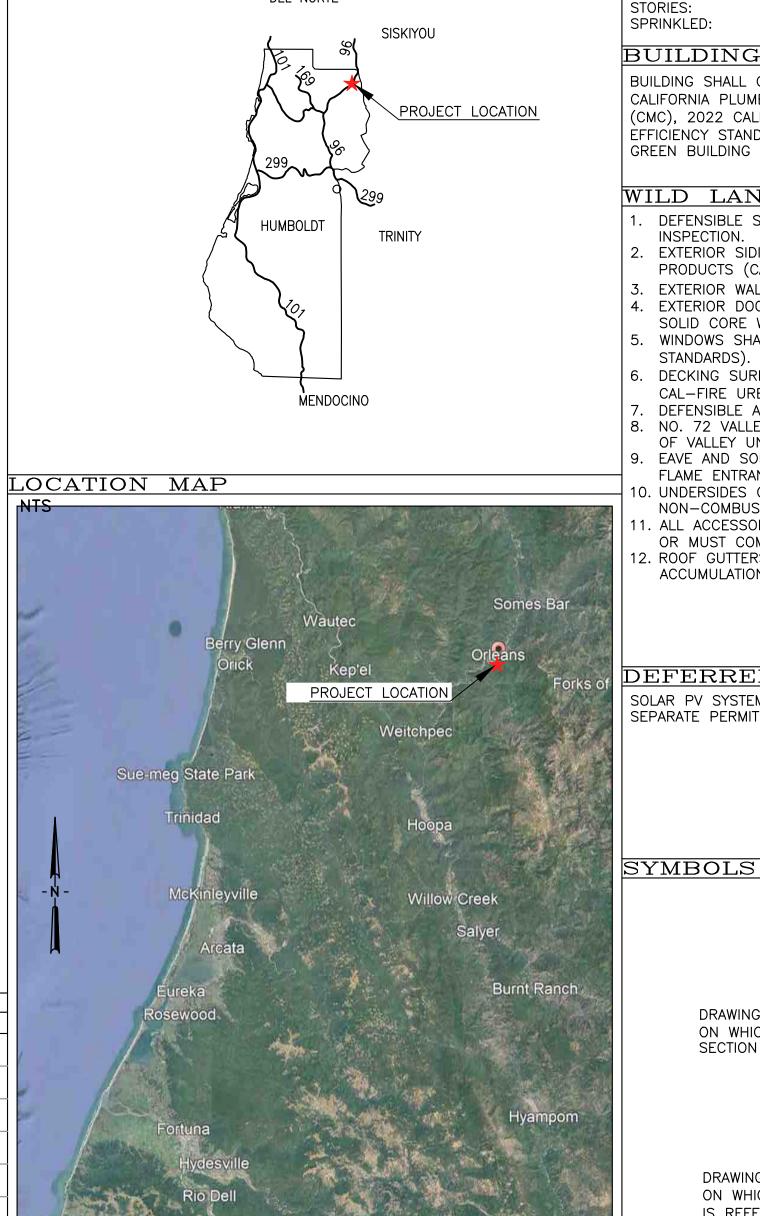
8030 HIGHWAY 96 ORLEANS CA, 95556 HUMBOLDT COUNTY, CALIFORNIA





CONTRACTOR ALERT!	UTILITY R	EPRESENT.	ATIVES	
CONTRACTOR MUST CONTACT USA DIG AT LEAST 24 HOURS BEFORE ANY EARTHWORK OR	UTILITY	COMPANY	TELEPHONE	
ACTIVITIES THAT MAY IMPACT EXISTING UNDERGROUND UTILITIES.	GAS	CAMPORA	530.629.3388	
EXISTING UTILITY ALIGNMENTS BOTH HORIZONTALLY AND VERTICALLY MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES.	ELECTRICITY	PG&E	707.445.5505	
WEBSITE: HTTPS://USANORTH811.ORG/	TELEPHONE			
PHONE: 811	WATER	OCSD	530.627.3454	
	SEWER	PRIVATE		
	FIRE	OVFD	530.627.5344	

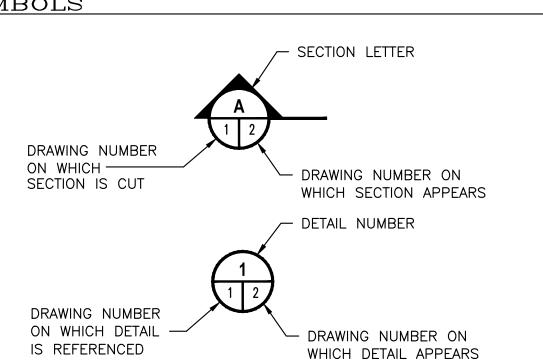




SHEET DRAWING #	INDEX TITLE	REVISION	DATE	HTV	CE
T01	TITLE SHEET	0	05/02/2025	┨■	
CO1	PLOT PLAN	0	05/02/2025	with .	
G01	GENERAL FOUNDATION NOTES	0	05/02/2025		William Principle
G01 G02	GENERAL FOUNDATION NOTES  GENERAL FRAMING NOTES	0	05/02/2025		
G02 G03	GENERAL FRAMING NOTES  GENERAL BUILDING NOTES	0	05/02/2025		
G03	GENERAL BOILDING NOTES	U	03/02/2023		
	ACCESSIBLE RESIDENCE	0	05 /00 /0005		NUT WAY OX 1567
A1	ELEVATIONS	0	05/02/2025	WILLOW CRE	EK, CA 95573
A2	FLOOR PLAN	0	05/02/2025		629-3000
A3	ACCESSIBILITY NOTES & DETAILS	0	05/02/2025	, ,	629-3011
A4	ACCESSIBLE ALARM AND COMMUNICATIONS		05/02/2025	السساليان	FSCION
A5	FOUNDATION PLAN	0	05/02/2025	RCE STREET	ESSIONALITY
A6	SECTION & DETAUKS	0	05/02/2025	RCE RCE	" "CTY CIE
A7	ROOF PLAN	0	05/02/2025		E1/6/
A8	ELECTRICAL PLAN	0	05/02/2025	BS RCE	60687 7)系
FS-01	FIRE SPRINKLER	0	05/02/2025	WEXP. ]	$\frac{ 2-31-2026 }{ 7- }$
PROPOSED	(2)-BDRM. RESIDENCE			EXP. ]	1VI) ***
B1	ELEVATIONS	0	05/02/2025	THINTS TATE OF	CALLE OR NIA
B2	FLOOR PLAN	0	05/02/2025	"mmm	over.
B3	FOUNDATION PLAN	0	05/02/2025		Na Na
B4	SECTION & DETAUKS	0	05/02/2025	TVCE	
B5	ROOF PLAN	0	05/02/2025		
					BV
B6	ELECTRICAL PLAN	0	05/02/2025	MET	
FS-01	FIRE SPRINKLER	0	05/02/2025		1 1 1
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	ENERGY COMPLIANCE	-	05 /00 /555		200
T24.1	TITLE 24 BUILDING ENERGY REPORT		05/02/2025	ARD	
T24.2	TITLE 24 BUILDING ENERGY REPORT	0	05/02/2025	¥	
TYPE OF CONDECUPANCY: STORIES: SPRINKLED:  BUILDING SHAD CALIFORNIA PICCOME), 2022	R-3 ONE YES  NG CODE COMPLIANO LL COMPLY WITH 2022 CALIFORNIA BUILD LUMBING CODE (CPC), 2022 CALIFORNIA CALIFORNIA ELECTRICAL CODE (CEC), 202	DING CODE MECHANICA 22 CALIFOI	AL CODE RNIA ENERGY	022 PRELIMINARY DESIGN	NOTHERITANA
GREEN BUILDI	TANDARDS CODE, 2022 CALIFORNIA FIRE NG STANDARDS CODES, AND ALL APPLICA	ABLE CÒDE		05/02/2022	
	AND FIRE STANDARD Le space must be signed off prior t		BUCK		
INSPECTIO 2. EXTERIOR PRODUCTS 3. EXTERIOR	N. SIDING PRODUCTS, INCLUDING SHEATHING (CAL—FIRE URBAN INTERFACE APPROVED WALL VENTS TO BE 16"—1/8" SCREEN.	6, TO BE (	OF APPROVED		Wild
SOLID COI 5. WINDOWS STANDARD 6. DECKING	SURFACES TO BE APPROVED PRODUCTS.	PANE (PE	R SRA		
7. DEFENSIBL 3. NO. 72 V OF VALLE 9. EAVE AND FLAME EN	URBAN INTERFACE APPROVED).  LE AREA SHOWN ON SITE PLAN.  ALLEY FLASH UNDERLAYMENT CAP SHEET  Y UNLESS ROOF COVER IS INTERWOVEN.  SOFFIT VENTS MUST BE FIRE RATED TO  TRANCE (CAL—FIRE URBAN INTERFACE AP  ES OF EAVES SHALL BE IGNITION RESISTA	PRECLUDI PROVED).			
NON-COM 11. ALL ACCE OR MUST 12. ROOF GUT		D' FROM F		HOUSING AUTHORITY	SHEET IGHWAY 96 CA, 95556 INTY, CALIFORNIA -111-007
	RED SUBMITTAL			IBE HOU!	DEANS CAUNTY COUNTY COUNTY

DEFERRED SUBMITTAL

SOLAR PV SYSTEM, PER TITLE 24, TO BE A DEFERRED SUBMITTAL UNDER SEPARATE PERMIT.



DATE OF ISSUE:

APRIL 2022

SCALE:

AS SHOWN

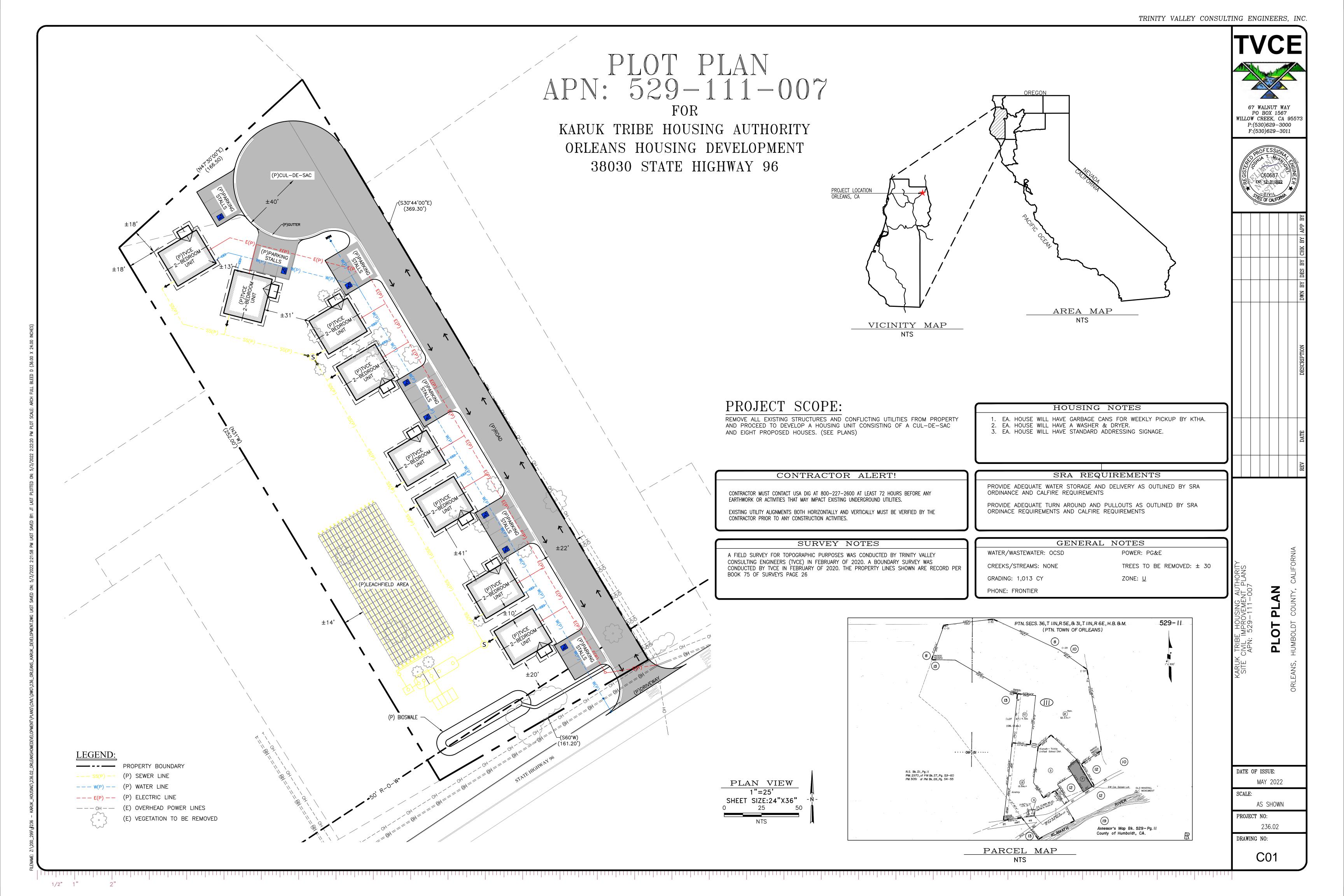
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1/2" 1"



#### <u>FOUNDATION</u>

THE FOOTINGS SHOWN ON THE PLANS WERE DESIGNED BY TVCE. THE MAXIMUM ALLOWABLE BEARING CAPACITY IS 2000 PSF UNDER DEAD LOAD PLUS LIVE LOAD. THE ALLOWABLE BEARING PRESSURE IS PERMITTED A 1/3 INCREASE FOR LOAD COMBINATIONS THAT INCLUDE WIND AND SEISMIC LOADS. OVER EXCAVATION OF THE BUILDING PAD AREA IS REQUIRED TO REMOVE EXISTING LOOSE FILLS. IF APPLICABLE, SEE GEOTECHNICAL REPORT FOR OVER EXCAVATION AND COMPACTED FILL REQUIREMENTS.

#### CONCRETE

ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" EXCEPT AS MODIFIED BY THESE CONSTRUCTION DOCUMENTS. THE CONCRETE FOOTINGS HAVE BEEN DESIGNED FOR A MINIMUM 28—DAY ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI PER CBC TABLE 1808.8.1

CONCRETE INGREDIENTS SHALL CONSIST OF WATER, TYPE II/V PORTLAND CEMENT, FINE AGGREGATE, COARSE AGGREGATE THAT'S INDICATED IN ALL THE TABLE BELOW, AND AIR—ENTRAINING ADMIXTURE WHEN REQUIRED. CLASS F FLY ASH MAY BE SUBSTITUTED FOR UP TO 20 PERCENT OF THE PORTLAND CEMENT, BY WEIGHT, PROVIDED A PROVEN MIX DESIGN IS SUBMITTED FOR THE ENGINEER'S REVIEW.

CONCRETE PROPORTIONS ARE DICTATED BY ITS END USE EXPOSURE. SEVERAL KEY FACTORS DETERMINING THE QUALITY ARE CEMENT CONTENT, WATER—CEMENT RATIO, AGGREGATE GRADING, AIR CONTENT, AND ADMIXTURES. THESE FACTORS ARE PRESENTED IN THE TABLE BELOW. THE TABULAR VALUES ARE BASED ON 1—INCH MAXIMUM COARSE AGGREGATE.

#### ADDITIONAL CONCRETE NOTES:

- 1. A SACK OF CEMENT WEIGHS 94 POUNDS. CEMENT CONTENTS MAY BE REDUCED BY 1/4 SACK FOR CONCRETE CONTAINING 1 1/2-INCH COARSE AGGREGATES.
- 2. THE W/C RATION IS THE WEIGHT OF WATER DIVIDED BY THE WEIGHT OF CEMENT PLUS POZZOLAN. AT THE JOBSITE WHEN THE SLUMP IS LESS THAN REQUIRED FOR PROPER PLACEMENT, WATER MAY BE ADDED TO THE MIX. THE MEASUREMENT OF THE SLUMP AND DETERMINATION FOR THE NEED OF ADDITIONAL WATER SHALL BE MADE AS SOON AS POSSIBLE AFTER THE TRUCK ARRIVAL. WATER CAN BE ADDED AT THE JOB SITE BUT ONLY IF IT CAN BE SHOWN ON A BATCH TICKET THAT THE AMOUNT OF WATER TO BE ADDED IS LESS THAN THAT TRIMMED AT THE PLANT. ADD WATER SHALL NOT EXCEED 2 GALLONS PER CUBIC YARD OF CONCRETE. INSUFFICIENT SLUMP AFTER THE MAXIMUM ADDITION OF ADD WATER SHALL BE CAUSE FOR REJECTION. AT ANY TIME, IF THE SLUMP IS EXCESSIVE THE CONCRETE IS SUBJECT TO REJECTION. IF ADD—WATER INCREASES THE W/C RATIO ABOVE THE TABLE W/C RATIO THE CONCRETE SHALL BE REJECTED.
- 3. THE TOTAL AIR CONTENT IS MEASURED IN THE CONCRETE AS DEPOSITED IN THE FORMS. THE AIR CONTENT SHALL BE ACHIEVED SOLELY BY THE ADDITION OF AN AIR ENTRAINING ADMIXTURE (AEA).
- 4. TESTING (A) IS THREE TEST CYLINDERS FOR EACH 150 YARDS OR LESS OF CONCRETE PER DAY; (B) IS THREE CYLINDERS FOR EACH 100 YARDS OR LESS OF CONCRETE PER DAY; (C) IS SLUMP, TEMPERATURE, AND AIR CONTENT OF THE FIRST TRUCK; FROM ALL TRUCKS IN WHICH THE CONCRETE SEEMS TO VARY FROM THE ACCEPTABLE MIX; AND FROM THE TRUCKS FROM WHICH THE TEST CYLINDERS ARE TAKEN.

		TA	ABLE OF CO	NCRETE PRO	PORTIONS			
END USE OF CONCRETE	TESTS (4)	MIN. SACKS OF CEMENT PER C.Y. (1)	MIN. 28-DAY COMPRESSION STRENGTH PSI	MAX. W/C RATION BY WEIGHT (2)	TOTAL AIR CONTENT (3)	SLUMP	WRDA	SUPER PLASTICIZER
SLABS	A, C	6	3000	.45	<del>-</del> -	3–5	YES	
FOOTINGS BELOW GRADE	A, C	5.5	3000	.50		3–5		

AGGREGATES FINE AND COARSE AGGREGATES SHALL CONFORM TO ASTM C33. COARSE AGGREGATE SHALL BE TYPICALLY 1 1/2" EXCEPT THAT 1-INCH AGGREGATE MAY BE USED FOR SLABS AND WALLS THINNER THAN 10 INCHES AND FOR ALL PUMPED CONCRETE UNLESS OTHERWISE APPROVED BY THE ENGINEER. 1 1/2-INCH AGGREGATE SHALL NOT BE USED FOR SLABS THINNER THAN 7 INCHES, FOR WALLS THINNER THAN 10 INCHES. NOR COLUMNS LESS THAN 16 INCHES IN DIAMETER.

AGGREGATES AND SAND SHALL BE FREE OF MATERIALS THAT ARE SUSCEPTIBLE TO ALKALI-AGGREGATE REACTIVITY (ALKALI-SILICA REACTIVITY AND ALKALI-CARBONATE REACTIVITY).

GRADING OF COMBINED FINE AND COARSE AGGREGATES SHALL FALL WITHIN THE FOLLOWING LIMITS:

PERC	ENTAGE PASSING BY WEIG	GHT
SIEVE NUMBER OR SIZE IN INCHES	1 1/2-INCH MAXIMUM	1-INCH MAXIMUM
PASSING A 2-INCH		
PASSING A 1 1/2-INCH	90-100	
PASSING A 1-INCH	50-86	90-100
PASSING A 3/4-INCH	45-75	55-100
PASSING A 3/8-INCH	38-55	45-75
PASSING A NO. 4	30-45	35-60
PASSING A NO. 8	23-38	27-45
PASSING A NO. 16	17–33	20-35
PASSING A NO. 30	10-22	12-25
PASSING A NO. 50	4-10	5-15
PASSING A NO. 100	1-6	1-8
PASSING A NO. 200	0-3	0-4

PLACEMENT PRACTICES ARE REQUIRED TO BE IN ACCORDANCE WITH ACI 305 FOR HOT WEATHER AND ACI 306 FOR COLD WEATHER. CONCRETE THAT HAS BEEN BATCHED FOR MORE THAN TWO HOURS IN COLD WEATHER AND ONE AND ONE—HALF HOURS IN HOT WEATHER BEFORE BEING PLACED SHALL AUTOMATICALLY BE REJECTED. CONCRETE SHALL NOT FREE FALL MORE THAN (6) FEET. CONCRETE SHALL BE PLACED USING A TREMIE TUBE OR PUMP HOSE IF STANDING WATER IS PRESENT AND PRIOR TO APPROVAL FROM THE ENGINEER IS OBTAINED.

CONSOLIDATION OF FORMED CONCRETE AND CONCRETE CONTAINING ANCHOR BOLTS, REBAR AND OTHER EMBEDMENT'S SHALL BE ACCOMPLISHED WITH A CONCRETE VIBRATOR. THE SIZE OF THE VIBRATOR SHALL BE SUFFICIENT TO ADEQUATELY CONSOLIDATE THE CONCRETE. TREMIE CONCRETE SHALL NOT BE VIBRATED.

FINISH OF AN INTERIOR SLAB SHALL BE SMOOTH TROWELED EXCEPT WHERE A NON—SLIP SURFACE IS

REQUIRED A FINE BROOM FINISH SHALL BE PROVIDED. EXTERIOR SLABS SHALL BE GIVEN A MEDIUM BROOM

CURING OF ALL CONCRETE SHALL BE CONTINUOUS FOR AT LEAST 7 DAYS BEGINNING IMMEDIATELY AFTER COMPLETION OF FINISHING. WET CURING OF SLABS USING DAMP BURLAP OR BURLEEN IS REQUIRED. CURING TIME AND PROCEDURES SHALL BE ADJUSTED TO SUIT HOT AND COLD WEATHER CONDITIONS. CURING COMPOUNDS SHALL NOT BE USED ON FLOOR SLABS OR ON CONCRETE SURFACES WHICH ARE TO BE PAINTED, SEALED OR WATERPROOFED. OR WHICH WILL RECEIVE ADHESIVE OR MORTAR BONDED FINISHES OR ON CONCRETE SURFACES EXPOSED TO VIEW WHERE THE CURING COMPOUND WOULD BE OBJECTIONABLE. FORMED WALLS SHALL NOT BE STRIP FOR AT LEAST 7 DAYS AS A METHOD OF CURING THE WALL. KEEP TOP EXPOSED PORTION OF WALL COVERED AND DAMP FOR 7 DAYS MINIMUM.

FORMED SURFACES EXPOSED AFTER CONSTRUCTION SHALL BE UNIFORMLY FLAT AND FREE OF SURFACE DEFECTS SUCH AS BUG HOLDS, FORM BOARD JOINTS, ROCK POCKETS, ETC. FLATNESS TOLERANCE SHALL BE 1/8-INCH BETWEEN ANY TWO POINTS IN 10 FEET. LINE SHALL BE WITHIN 1/4-INCH IN 50 FEET. EXPOSED SURFACES THAT ARE NOT ACCEPTABLE SHALL BE CORRECTED OR REPLACED AS DIRECTED BY THE ENGINEER. BACKFILL AND OTHER STRUCTURAL LOADING SHALL NOT BE PLACED AGAINST ANY CONCRETE UNTIL SUCH TIME AS THE CONCRETE HAS ATTAINED ITS 28-DAY STRENGTH.

REINFORCING BARS SHALL MEET ASTM A615 GRADE 60 REQUIREMENTS FOR NO. 4 BARS AND LARGER, AND GRADE 400R GRADE 60 REQUIREMENTS FOR SMALLER BARS, EXCEPT THAT BARS WHICH REQUIRE WELDING SHALL MEET ASTMA706 REQUIREMENTS. ALL SPLICES SHALL BE LAP SPLICES WITH LAP LENGTHS AND SPACING CONFORMING TO THE STANDARD DETAILS, U.N.O. WELDING OF REINFORCING BARS SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.4AND WILL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE PLANS AND CONTINUOUSLY INSPECTED BY THE ENGINEER. BEAM, COLUMN, AND VERTICAL WALL REINFORCEMENT SHALL NOT BE SPLICED, EXCEPT AT THE 1/4 SPAN LOCATIONS WHEN NECESSARY OR UNLESS SHOWN OTHERWISE ON THE PLANS.

WATER VAPOR RETARDER SHALL BE PLACED UNDER ALL INTERIOR CONCRETE SLABS UNLESS NOTED OTHERWISE AND SHALL BE A 15-MIL. MINIMUM THICK FILM. THE VAPOR RETARDER SHALL COMPLY WITH ASTM E-1745 CLASS A, WITH A PERMEANCE RATING LESS THAN 0.01 US PERMS. STEGO WRAP BY STEGO INDUSTRIES MOISTOP ULTRA 15 BY FORTIFIBER, VAPOR BLOCK 15 BY RAVEN INDUSTRIES, OR APPROVED EQUAL. LAP THE ENDS AND EDGES OF THE SHEETS 6-INCHES MINIMUM AND TAPE ALL SEAMS PER THE VAPOR RETARDER'S MANUFACTURER'S RECOMMENDATIONS. SEAL ALL PENETRATIONS PER THE VAPOR RETARDER'S MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN NOT TO PUNCTURE THE VAPOR RETARDER DURING AND AFTER INSTALLATION. COMPACTED 3/4-INCH AGGREGATE BASE SHALL BE PLACED UNDER THE VAPOR RETARDER. BASE WITH CRUSHED AGGREGATE SHALL BE COVERED WITH A THIN LAYER (1/2-INCH) SAND TO SEPARATE THE VAPOR BARRIER FROM THE AGGREGATE BASE. THE CONCRETE SLAB SHALL BE PLACED DIRECTLY ON THE VAPOR RETARDER. NO SAND OR OTHER MATERIAL IS ALLOWED BETWEEN THE VAPOR RETARDER AND CONCRETE SLAB.

SLAB FLATNESS TOLERANCE SHALL BE 3/8-INCH IN 5 FEET AND 1/2-INCH IN 10 FEET WHERE THE 3/8-AND 1/2-INCH DIMENSIONS ARE THE MAXIMUM DIFFERENCES OVER THEIR RESPECTIVE LENGTHS. FLATNESS TOLERANCES UNDERWOOD FRAME WALLS SHALL MEET THE REQUIREMENTS FOR MUDSILLS IN WOOD FRAME CONSTRUCTION.

DRY PACK MORTAR — PRE—MIXED PREPARED PORTLAND CEMENT MORTARS, WHICH REQUIRE ONLY THE ADDITION OF WATER AND ARE USED IN THE INSTALLATION OF CERAMIC TILE, SHALL COMPLY WITH ANSI A118.1. THE SHEAR BOND STRENGTH FOR TILE SET IN SUCH MORTAR SHALL BE AS REQUIRED IN ACCORDANCE WITH ANSI A118.1. TILE SET IN DRY—SET PORTLAND CEMENT MORTAR SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A108.5.

NON-SHRINK GROUT IS REQUIRED FOR: BASE PLATES AND SILL PLATES WITH LESS THAN 1/2-INCH HEIGHT BETWEEN THE ITEM TO BE SUPPORTED AND THE SUBSTRATE; ITEMS WHICH ARE NOT ACCESSIBLE FOR DRY PACKING FROM TWO OPPOSING SIDES; ITEMS WITH BASE PLATES WHERE THE SMALLEST DIMENSION IS GREATER THAN 24 INCHES; EQUIPMENT OR OTHER SUPPORTS SUBJECT TO VIBRATORY LOADS; AND WHERE NOTED ON THE PLANS. THE NON-SHRINK GROUT FOR HEAVY VIBRATORY LOADS SHALL BE EMBECO 858 GROUT MANUFACTURED BY BASF; HI-FLOW METALLIC GROUT MANUFACTURED BY EUCLID CHEMICAL CO.; OR EQUAL. NON-SHRINK GROUT FOR OTHER APPLICATIONS SHALL BE MASTERFLOW 928 GROUT, MANUFACTURED BY BASF; HI-FLOW GROUT, MANUFACTURED BY ELUCID CHEMICAL CO., OR EQUAL.

NON-SHRINK GROUT SHALL BE CONTAINED BY SUITABLE RIGID FORMS. THE GROUT SHALL BE FLUID OR FLOWABLE DEPENDING ON WHICH IS THE MORE SUITABLE FOR THE PARTICULAR SITUATION. THE SURFACE PREPARATION, MIXING, APPLICATION, AND CURING OF THE GROUT SHALL CONFORM TO THE MANUFACTURER'S INSTRUCTIONS.

EXPANSION JOINT FILLER FOR EXPANSION JOINTS IN FLOOR SLABS SHALL BE 1/2-INCH THICK ASPHALT IMPREGNATED FIBER BOARD MEETING ASTM D-1751, SUCH AS FIBER EXPANSION JOINT BY WR MEADOWS; OR EQUAL. APPLY REMOVABLE CAP TO EXPOSED EDGE OF JOINT FILLER, WHERE APPLICABLE, PRIOR TO INSTALLATION.

REMOVABLE CAP FOR CREATING A VOID FOR SEALANT SHALL BE SNAP—CAP BY WR MEADOWS; OR EQUAL. THE STRIP SHALL CONSIST OF A PERMANENT CAP WHICH FITS OVER THE JOINT FILLER, AND AN UPPER ATTACHED BUT REMOVABLE CAP PIECE THAT IS LIFTED OFF THE LOWER CAP PIECE AFTER THE CONCRETE IS CURED. THE REMAINING JOINT FILLER CAP SERVES AS A SEALANT BOND BREAKER. THE ENTIRE CAP IS APPLIED TO THE EXPANSION JOINT FILLER PRIOR TO ADHERING IT TO THE CONCRETE SURFACE.

#### FOUNDATION NOTES:

- 1. ALL FOOTING EXCAVATION SHALL BE AS NEAT AS PRACTICABLE. OVER EXCAVATION IN DEPTH SHALL BE FILLED WITH CONCRETE OR COMPACTED BACKFILL. ALL LOOSE SOILS SHALL BE REMOVED FROM EXCAVATION PRIOR TO PLACEMENT OF REINFORCEMENT, CONCRETE OR ENGINEERED FILL. FOOTING EXCAVATION TO BE 2" WIDER THAN SHOWN UNLESS FOOTINGS ARE FORMED.
- 2. ALL FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED NATIVE SOILS OR ENGINEERED FILL AT OR EXCEEDING DEPTHS SHOWN ON THE DRAWINGS.
- 3. WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATION PRIOR TO PLACING OF CONCRETE.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- 5. DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE 'ACI DETAIL MANUAL' 1988.
- 6. CONCRETE PROTECTION FOR REINFORCING SHALL BE AT LEAST EQUAL TO THE DIAMETER OF THE BARS. MINIMUM COVER FOR CAST—IN—PLACE CONCRETE SHALL BE AS FOLLOWS.
  - A. POURED OVER EARTH

    B. POURED AGAINST FORM BELOW GRADE

    C. FORMED SLAB (#11 BARS AND SMALLER)

    D. SLABS ON GROUND (FROM TOP OF SLAB)

    E. COLUMN AND BEAM MAIN BARS, TIES,

    STIRRUPS, SPIRALS

    F. WALLS EXPOSED TO WEATHER (#6 THROUGH #18)

    3"

    3"

    1½"

    7"
- G. WALLS NOT EXPOSED TO WEATHER (#11 AND SMALLER) 3/4"

  7. REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO

(#5 BAR & SMALLER)

- 8. MINIMUM LAP DISTANCE FOR REINFORCING STEEL SHALL BE 24" OR 32 BAR DIAMETERS WHICHEVER IS GREATER.
- 9. ALL CONNECTORS, FASTENERS, AND METAL OBJECTS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE EITHER STAINLESS STEEL OR HOT—DIPPED GALVANIZED.

#### **CONCRETE NOTES:**

- 1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3000 PSI AND SHALL BE A MINIMUM OF A FIVE SACK MIX WITH NO MORE THAN SEVEN GALLONS OF WATER PER CUBIC YARD..
- ALL CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150# /CF). MAXIMUM AGGREGATE SIZE FOR 2. SLABS ON GRADE TO BE 34" AND 1½" FOR FOUNDATIONS. AGGREGATE SHALL CONFORM TO ASTM C-33. CEMENT SHALL CONFORM TO C-150 (TYPE II), UNLESS ALKALINE SOILS. WATER-REDUCING ADMIXTURES, RETARDING ADMIXTURES, ACCELERATING ADMIXTURES, WATER-REDUCING AND RETARDING ADMIXTURES, AND WATER-REDUCING AND ACCELERATING ADMIXTURES SHALL CONFORM TO 'SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE' (ASTM C 494).

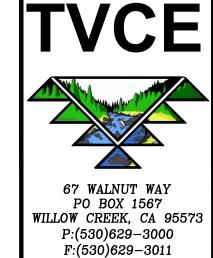
SLABS, BEAMS, WALLS AND OTHER CONCRETE SHALL BE KEPT CONTINUOUSLY WET FOR 48 HOURS AFTER PLACEMENT AND SHALL BE KEPT DAMP FOR 7 DAYS AFTER PLACEMENT. SLABS SHALL HAVE CURE /SEALER 3. APPLIED IMMEDIATELY AFTER FINISHING IF OTHER FINISHES ARE NOT AFFECTED SUPERIMPOSED LOADS SHALL NOT BE APPLIED TO ELEVATED STRUCTURAL MEMBERS OR WALLS PRIOR TO 7 DAYS MINIMUM AFTER CONCRETE HAS REACHED DESIGN STRENGTH. RESHORING SHALL REMAIN IN PLACE 28 DAYS MINIMUM, AT NO TIME DURING A RESHORING PROCESS SHALL THE CONCRETE MEMBER BE UNSUPPORTED.

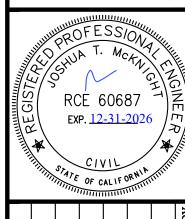
CONCRETE SHALL NOT FREE FALL MORE THAN SIX FEET.

IMPAIR BOND. BENDS SHALL BE MADE COLD.

- KEYED CONSTRUCTION JOINTS SHALL BE USED IN ALL CASES. ALL CONSTRUCTION JOINTS SHALL BE
  4. THOROUGHLY CLEANED AND ALL LAITENCE SHALL BE REMOVED. ALL VERTICAL JOINTS SHALL BE
  THOROUGHLY WETTED AND SLUSHED WITH A COAT OF NEAT CEMENT IMMEDIATELY BEFORE PLACING NEW
  5. CONCRETE.
- PROVIDE CONTROL JOINTS PER PLAN AND /OR EVERY 20 FEET ON CENTER. FILL WITH APPROVED CAULKING.
- PROVIDE 34" CHAMFER AT EXPOSED EDGES OF CONCRETE BEAMS AND COLUMNS U.N.O.
- ANCHOR BOLT SIZES SHALL BE PER THE BUILDING PLANS WITH 7" EMBEDMENT AND (1) 3X3 WASHER 3/16" THICK. ANCHOR BOLTS SHALL BE LOCATED 4' O.C. AND 12" MAX. FROM EDGE WITH A MIN. (2) PER SILL 7. PLATE 12" MAX. FROM EDGE.

8.





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MTC				DWN BY DES BY CHK BY APP BY
FAM				DES BY
ARD				DWN BY
PRELIMINARY DESIGN				DESCRIPTION
05/05/2025				DATE
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# SATION NOTES

ERAL FOUNDATIC
38030 HIGHWAY 96
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DATE OF ISSUE:
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AS SHOWN
PROJECT NO:

SCALE:

502.60 **DRAWING NO:** 

G01

<u>IDENTIFICATION</u>

#### **PROJECT NOTES:**

- 1. ALL DIMENSIONS ARE TO THE FACE OF STUDS UNLESS OTHERWISE NOTED, (U.O.N.).
- 2. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS
- 3. GLAZING WITHIN 24" ARC OF EITHER VERTICAL EDGE OF A DOOR IN THE CLOSED POSITION SHALL BE TEMPERED. SAFETY GLAZING AT WALL, ENCLOSURE OR DOOR FOR TUB, SHOWER, SAUNA, ETC., INCLUDING WINDOW IF BOTTOM IS LESS THAN 60 ABOVE STANDING SURFACE. CRC R308 (ALL MEASUREMENTS ARE TO NEAREST EXPOSED EDGE OF GLASS)

#### STRUCTURAL DESIGN CRITERIA

1.2022 CALIFORNIA BUILDING CODE.

2.ASCE 7-22, MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

3.AISC MANUAL OF STEEL CONSTRUCTION, 16TH EDITION.

4.ACI 318-19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

5.2018 NDS NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

#### PLANNING & DESIGN

1. SITE DEVELOPMENT — STORM WATER POLLUTION & PREVENTION PLAN APPLIES TO ALL NEW CONSTRUCTION PROJECTS.

#### 2. LIGHT POLLUTION REDUCTION SHALL BE IMPLEMENTED.

#### **ENERGY EFFICIENCY**

3. IN ORDER TO BE CONSIDERED "GREEN BUILDING" A REDUCTION OF AT LEAST 15% BELOW THE MINIMUM LEVEL OF COMPLIANCE SHOULD BE OBTAINED.

#### INDOOR WATER USE

- 4. SEPARATE SUB METERS SHALL BE REQUIRED FOR ALL BUILDINGS OVER 5,000 S.F.
- 5. ACHIEVE 20% REDUCTION IN WATER USE BY USING REDUCED FLOW FIXTURES. SEE CALCULATION FORMS WS-1 & WS-2 OR WS-3 ATTACHED.

#### OUTDOOR WATER USE

8.A WATER BUDGET SHALL BE DEVELOPED FOR LANDSCAPE IRRIGATION USE. SECTION 5.304.1.

9.FOR NEW WATER SERVICE TO LANDSCAPED AREAS BETWEEN 1,000 S.F. AND 5,000S.F. SEPARATE METERS OR SUBMETERS SHALL BE INSTALLED FOR INDOOR AND OUTDOOR POTABLE WATER USE. SECTION 5.304.2.

10.IN NEW CONSTRUCTION BETWEEN 1,000 S.F. AND 2,500 S.F. OF LANDSCAPED AREA, PROVIDE IRRIGATION CONTROLS CAPABLE OF AUTOMATICALLY ADJUSTING IRRIGATION BASED ON WEATHER OR SOIL CONDITIONS. SECTION 5.304.3. WATER RESISTANCE & MOISTURE MANAGEMENT

11.PROVIDE A WEATHER RESISTANT EXTERIOR WALL AND FOUNDATION ENVELOPE.

12.DESIGN AND MAINTAIN LANDSCAPE SYSTEMS TO PREVENT SPRAY ON STRUCTURES.

13.USE FLASHING AND DRAINAGE PLATES AT EXTERIOR OPENINGS TO PREVENT WATER INTRUSION INTO THE BUILDING.

14. USE NON-ABSORBENT FLOOR AND WALL FINISHES WITHIN 2 FEET OF EXTERIOR OPENINGS.

CONSTRUCTION WASTE REDUCTION, DISPOSAL & RECYCLING

15.PRIOR TO THE ISSUING OF A BUILDING PERMIT, GENERAL CONTRACTOR SHALL DEVELOP A CONSTRUCTION WASTE MANAGEMENT PLAN (CWMP) SHOWING HOW A MINIMUM OF 50% OF ALL CONSTRUCTION DEBRIS WILL BE DIVERTED FROM LANDFILL DISPOSAL. SUBMIT CWMP TO ARCHITECT FOR REVIEW AND APPROVAL. ARCHITECT SHALL FORWARD APPROVED WASTE MANAGEMENT PLAN TO LOCAL BUILDING DEPARTMENT FOR INCORPORATION INTO PERMIT PACKAGE.

16.CONTRACTOR SHALL BE RESPONSIBLE FOR TRACKING ALL CONSTRUCTION WASTE AND SHALL PROVIDE WRITTEN DOCUMENTATION AT THE END OF THE PROJECT FOR BUILDING DEPARTMENT APPROVAL PRIOR TO FINAL SIGNOFF. CONSTRUCTION DEBRIS SHALL BE TRACKED BY WEIGHT OR VOLUME FOR THE ENTIRE PROJECT, BUT NOT IN COMBINATION.

17. DISPOSAL OF HAZARDOUS MATERIALS DO NOT COUNT AS CONSTRUCTION WASTE.

#### **BUILDING MAINTENANCE & OPERATION**

18. FOR NEW BUILDINGS 10,000 S.F. OR MORE BUILDING COMMISSIONING SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PROCESS FOR THE BUILDING AS REQUIRED IN SECTION 5.410.2. <u>FIREPLACES</u>

- 19. ONLY CALIFORNIA APPROVED FIREPLACES MAY BE INSTALLED. POLLUTANT CONTROL
- 20. ALL HVAC DUCT WORK, EQUIPMENT AND COMPONENTS SHALL BE SEALED THROUGHOUT CONSTRUCTION TO PREVENT CONTAMINATION FROM AIRBORNE POLLUTANTS GENERATED BY CONSTRUCTION ACTIVITIES.

#### 21. ALL FINISH MATERIALS SHALL COMPLY WITH VOC LIMITATIONS SET FORTH IN SECTION 5.504.4.1 THROUGH 5.504.4.4.

22. MEET REQUIREMENTS FOR CALIFORNIA TITLE 24.

#### **OUTDOOR AIR QUALITY**

INDOOR AIR QUALITY

23. PROVIDE HVAC, REFRIGERATION, AND FIRE SUPPRESSION SYSTEMS THAT DO NOT CONTAIN CFC'S OR

#### **GENERAL REQUIREMENTS**

ALL CONSTRUCTION SHALL CONFORM WITH 2022 CALIFORNIA BUILDING CODE AND ALL OTHER APPLICABLE CODES, ORDINANCES, LAWS AND PROVISIONS SET FORTH IN THESE CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS ARE CONSIDERED TO BE, BUT ARE NOT LIMITED TO, THE PLANS AND SPECIFICATIONS, NOTIFICATIONS, CHANGE ORDERS, ADDENDUMS, CLARIFICATIONS AND INSTRUCTIONS. ANY CONSTRUCTION THAT DOES NOT COMPLY WITH THE CONSTRUCTION DOCUMENTS SHALL BE SUBJECT TO REJECTION BY THE ENGINEER.

#### **CONTRACTOR REQUIREMENTS**

DIMENSIONS SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION BETWEEN THE ARCHITECTURAL PLANS AND OTHER PLANS. VERIFY EXISTING DIMENSIONS PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER FOR RESOLUTION. TEMPORARY BRACING OF THE BUILDING DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. SUCH BRACING SHALL ACCOUNT FOR MATERIAL STOCKPILE LOADS, REMOVAL OF EXISTING SUPPORT AND LOADS, FROM EQUIPMENT AND METHODS EMPLOYED DURING CONSTRUCTION. THE BUILDING SHALL ALSO BE ADEQUATELY BRACED TO WITHSTAND ANY WIND LOADS, SEISMIC, AND SNOW LOADS WHICH MIGHT OCCUR DURING CONSTRUCTION UNTIL THE PERMANENT STRUCTURAL FRAMING SYSTEM, INCLUDING BUT NOT LIMITED TO ALL DIAPHRAGMS, SHEAR WALLS, BRACINGS, ECT., IS COMPLETED.

#### **WOOD FRAME CONSTRUCTION**

U.N.O., FRAMING LUMBER IS TO BE DOUGLAS FIR S4S GRADED AS NOTED BELOW (WWPA GRADING RULES) UNLESS OTHERWISE NOTED OR SHOWN. HIGHER GRADES OF WOOD THAN INDICATED BELOW MAY BE USED AT THE ELECTION OF THE CONTRACTOR TO MINIMIZE TWISTING, WARPING, ETC. BEAMS AND STRINGERS ....NO. 2

..NO. 1 JOISTS, RAFTERS & LEDGERS, 2X AND 4X...... POSTS AND TIMBERS.... STUDS, SILLS & PLATES

STUD 2X4...

...NO. 1 2X8 AND LARGER... MISC. FRAMING LUMBER NOT NOTED.. ...NO. 2

LUMBER MOISTURE CONTENT SHALL BE BELOW 19% PRIOR TO INSTALLATION. REDWOOD LUMBER:4X, 6X, AND 8X REDWOOD STRUCTURAL MEMBERS SHALL BE STRUCTURALLY GRADED NO. 1. OTHER MEMBERS SHALL BE ARCHITECTURAL B GRADE.

MUDSILLS, PLATES, LEDGERS, AND OTHER WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY SURFACES SHALL BE AWPB GRADE STAMPED PRESSURE TREATED WOOD. DOUGLAS FIR IS THE REQUIRED SPECIES FOR PRESSURE TREATING. THE PRESERVATIVE TYPE AND RETENTION SHALL MEET THE AWPA STANDARD C2 FOR ABOVEGROUND USE. THE TREATED WOOD SHALL BEAR THE AWPB QUALITY ASSURANCE MARK. PRESSURE TREATED MUDSILLS, PLATES, LEDGERS, AND OTHER MEMBERS SHALL HAVE ALL DRILLED HOLES AND CUT ENDS IN CONTACT WITH CONCRETE OR MASONRY TREATED WITH CUPRINOL OR OTHER SUITABLE CHEMICAL COMPATIBLE WITH THE PRESERVATIVE.

SET ALL MUDSILLS, PLATES, ETC. TO PROPER GRADE. THE FOUNDATION MAY DEVIATE FROM A STRAIGHT GRADE PLUS OR MINUS 1/8 INCH FOR BEARING WALLS AND PLUS OR MINUS 1/4 INCH FOR ALL OTHER WALLS.

TIMBER CONNECTORS SHALL BE SIMPSON STRONG-TIE UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. CONNECTORS SHALL BE THE MAXIMUM SIZE AND NUMBER OF FASTENERS AS SHOWN IN THE LATEST CATALOG UNLESS NOTED OTHERWISE ON THE PLANS ("MAX" NAILING U.N.O., INCLUDING TRIANGULAR HOLES). COATING SHALL BE HOT-DIPPED GALVANIZED OR ZMAX WHEN IN CONTACT WITH PRESSURE-TREATED WOOD.

BOLTS IN WOOD SHALL BE A307 MILD STEEL UNFINISHED MACHINE BOLTS IN INTERIOR LOCATIONS AND ZINC PLATED BOLTS SHALL BE USED FOR ALL OTHER CONNECTIONS EXCEPT HOT DIPPED GALVANIZED BOLTS (AND WASHERS) SHALL BE PROVIDED FOR PRESSURE TREATED LUMBER CONNECTIONS. WASHERS SHALL HAVE THE SAME CORROSION RESISTANCE AS THE BOLT. HOLES IN WOOD MEMBERS SHALL BE 1/16" LARGER THAN BOLT DIAMETER.RE-TIGHTEN ALL BOLTED CONNECTIONS PRIOR TO FINAL USE OR COVERING UP. LEDGERS AND MUDSILLS SHALL HAVE AT LEAST ONE BOLT (OR MORE IF REQUIRED ON PLANS) AT EACH END OF EACH MEMBER LOCATED NOT CLOSER THAN 6 INCHES AND NOT FARTHER THAN 9 INCHES FROM THE END. ALL OTHER BOLTS SHALL BE SPACED AS SHOWN ON PLANS.

WASHERS PLATE WASHERS, NOT LESS THAN 0.229 INCH BY 3 INCHES BY 3 INCHES (5.8 MM BY 76 MM BY 76 MM) IN SIZE, SHALL BE PROVIDED BETWEEN THE FOUNDATION SILL PLATE AND THE NUT EXCEPT WHERE APPROVED ANCHOR STRAPS ARE USED. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16 INCH (5 MM) LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 13/4 INCHES (44 MM), PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.

WOOD SCREWS SHALL BE ZINC PLATED STEEL. PROVIDED THE SIZE SHOWN ON THE PLANS. FULL DEPTH LEAD HOLES ARE REQUIRED OF THE SCREWS ROOT DIAMETER. THE SCREW MUST PENETRATE AT LEAST SEVEN SHANK DIAMETERS INTO THE SUPPORTING MEMBER U.N.O.

SELF-DRILLING WOOD SCREWS (SDWS) SHALL CONFORM WITH THE ABOVE PROVISIONS FOR WOOD SCREWS EXCEPT AS FOLLOWS: SCREWS SHALL HAVE A BUGLE HEAD THAT WILL DRIVE FLUSH WITH THE SURFACE: LEAD HOLES MAY BE OMITTED IF SPLITTING OF THE WOOD IS NOT ENCOUNTERED; SCREWS SHALL BE MANUFACTURED BY MCFEELY'S, BUILDEX, OR EQUAL.

SCREWS INSTALLED IN PRESSURE TREATED WOOD OR REDWOOD SUBJECT TO MOISTURE SHALL BE 18-8 STAINLESS-STEEL. NON-MOISTURE EXPOSURE IN THESE SPECIES OF WOOD SHALL UTILIZE MCFEELY'S NO-CO-RODES OR BUILDEX DECK-KING CLIMACOTE SCREWS. ALL OTHER SCREWS SHALL BE ZINC PLATED

PLATE CONNECTED WOOD TRUSSES ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER. THE TRUSS DESIGN SHALL BE IN ACCORDANCE WITH THE CURRENT RECOMMENDED DESIGN PRACTICE OF THE TRUSS PLATE INSTITUTE, CBC SECTION 2303.4, AND THE PLANS. THE TRUSS MANUFACTURER WILL SUBMIT A PRELIMINARY TRUSS DESIGN AND LAYOUT PLAN TO THE ENGINEER FOR USE IN THE STRUCTURAL DESIGN OF THE BUILDING. THE CONTRACTOR OR OWNER WILL RETURN TO THE TRUSS MANUFACTURER HIS PRELIMINARY DESIGN INFORMATION PLUS ANY ADDITIONAL INFORMATION NECESSARY FOR USE IN THE PREPARATION OF THE FINAL DESIGN OF THE TRUSSES. THE TRUSS MANUFACTURER SHALL PROVIDE FINAL PLANS, DETAILS AND STRUCTURAL CALCULATIONS FOR THE TRUSSES INCLUDING DESIGN OF ALL NECESSARY WEB AND CHORD BRACING. THE TRUSS MANUFACTURER SHALL SUBMIT THE FINAL DESIGN DOCUMENTS THAT ARE PREPARED AND STAMPED AND SIGNED BY A LICENSED CALIFORNIA CIVIL ENGINEER TO THE ENGINEER FOR HIS REVIEW. THE ROOF SHEATHING AND CEILING FINISH (IF OCCURRING) ARE INTENDED TO PROVIDE THE PERMANENT LATERAL SUPPORT FOR THE TOP AND BOTTOM CHORDS RESPECTIVELY. THE TRUSS MANUFACTURER SHALL NOTE ON THE SHOP DRAWINGS IF THESE ARE NOT SUFFICIENT. WHERE CEILINGS ARE NOT APPLIED TO BOTTOM CHORD, ADD BRACING PER TRUSS ENGINEERING. ERECTION BRACING IS TO BE FURNISHED AND INSTALLED BY THE ERECTION CONTRACTOR. THE ERECTION CONTRACTOR IS SOLELY RESPONSIBLE FOR THE TEMPORARY LATERAL BRACING OF THE TRUSSES UNTIL THE PERMANENT ROOF AND CEILING MATERIALS ARE COMPLETELY INSTALLED AND IS ALSO RESPONSIBLE TO PLACE COMPRESSION WEB AND CHORD LATERAL BRACING CALLED FOR BY THE TRUSS MANUFACTURER.

ENGINEERING CALCULATIONS FOR VAULTED TRUSSES SHALL DEMONSTRATE THAT EACH TRUSS HAS A COMBINED HORIZONTAL MOVEMENT FOR BOTH ENDS OF LESS THAN 3/4-INCH FOR THE DEAD LOAD PLUS LIVE LOAD.

LAMINATED VENEER LUMBER (LVL) BEAMS ARE TO BE DOUGLAS FIR VERTICALLY LAMINATED AND SHALL BE REDLAM LVL AS MANUFACTURED BY REDBUILT, VERSA-LAM LVL AS MANUFACTURED BY BOISE CASCADE, OR APPROVED EQUAL. THE BEAMS SHALL CONFORM TO ICC ESR 2993, OR ICC ESR 1040 AND SHALL HAVE A MINIMUM MODULUS OF ELASTICITY (E) OF 2.0X10<sup>6</sup> PSI, AND A MINIMUM FLEXURAL STRESS (FB) OF 2900 PSI. U.N.O., MEMBERS SHALL BE A SINGLE PIECE, WHERE MULTIPLE PILES ARE SPECIFIED, THEY SHALL BE NAILED TOGETHER WITH 3 ROWS OF 16DSINKER NAILS @ 12-INCHES ON CENTER, STAGGERED 6-INCHES UNLESS OTHERWISE NOTED. DOUBLE MEMBERS REQUIRE NAILING ON ONE FACE, TRIPLE MEMBERS REQUIRE NAILING ON TWO FACES. FOUR AND MORE LAYER MEMBER REQUIRE NAILING ON EACH LAYER PLUS 2-5/8" BOLT @ 24-INCH O/C.

GLULAM BEAMS ARE TO BE DOUGLAS FIR COMBINATION 24F-V4 FOR SIMPLE SPANS, 24F-V8 FOR CONTINUOUS MULTI-SPANS. GLULAMS ARE TO BE MANUFACTURED IN ACCORDANCE WITH AITC 117, ANSI/AITC A190.1, AND ASTM D3737 FOR DRY CONDITIONS OF USE. NO CAMBER IS NECESSARY UNLESS OTHERWISE SHOWN. BEAMS SHALL BE ARCHITECTURAL-APPEARANCE GRADE. THE FABRICATOR SHALL APPLY END AND SURFACE SEALER, ARCHITECTURAL-APPEARANCE GRADE BEAMS ARE TO BE INDIVIDUALLY WRAPPED. THE ERECTOR IS TO SLIT THE WRAPPING WHEN THE BEAMS ARE DELIVERED TO THE JOB SITE TO ALLOW ENTRAPPED MOISTURE TO ESCAPE. THE FABRICATOR SHALL PROVIDE THE CERTIFICATE OF PERFORMANCE.

PREFABRICATED WOOD I JOISTS SHALL BE RED-I AS MANUFACTURED BY REDBUILT LLC, OR APPROVED EQUAL. I-JOISTS SHALL CONFORM TO ICC ESR 2994. NOTCHING OR DRILLING OF FLANGES IS NOT PERMITTED UNLESS SPECIFICALLY DETAILED ON THE PLANS. WEBS MAY HAVE HOLES CUT PROVIDED THE SIZE, NUMBER AND LOCATION ARE WITHIN THE ALLOWABLE LIMITS AS DEFINED BY THE MANUFACTURER.

EACH OF THE I-JOISTS SHALL BE IDENTIFIED BY A STAMP INDICATING THE TRUSS SERIES, ICC-ES REPORT NUMBER, MANUFACTURER'S NAME, PLANT NUMBER, DATE OF FABRICATION AND THE INDEPENDENT INSPECTION AGENCY'S LOGO.

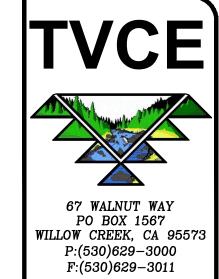
ROOF, FLOORS AND WALL SHEATHING SHALL BE PLYWOOD (NO OSB) AND SHALL COMPLY WITH PS-1, PS-2, OR APAPRP-108. EXPOSURE DURABILITY SHALL BE EITHER EXTERIOR OR EXPOSURE 1 UNLESS OTHERWISE SPECIFIED OR SHOWN. MOISTURE CONTENT SHALL BE LESS THAN 19% AT TIME OF FABRICATION. SPAN RATING, THICKNESS, AND NUMBER OF PILES SHALL BE SHOWN ON THE PLANS. ROOF SHEATHING AT OVERHANGS SHALL HAVE VENEER GRADES OF (OR FOR?) C-C PLUGGED OR BETTER.

ROOF AND FLOOR SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN ACROSS THE SUPPORTS AND THE END JOINTS STAGGERED 4 FEET UNLESS OTHERWISE SHOWN ON THE PLANS. EDGE JOINTS AND END JOINTS OF ALL PANELS SHALL BE SPACED 1/8 INCH APART BETWEEN ADJACENT PANELS UNLESS OTHERWISE INDICATED BY THE PANEL MANUFACTURER.

WALL SHEATHING MAY BE INSTALLED VERTICALLY OR HORIZONTALLY. PANEL EDGES AND ENDS SHALL OCCUR OVER FRAMING OR FULL DEPTH BLOCKING. EDGE NAILING SHALL BE APPLIED FULL HEIGHT TO ALL HOLD DOWN STUDS AND POSTS, AND ALL COLUMNS. WALL SHEATHING PANELS SHALL BE NOT LESS THAN ONE NOMINAL STUD SPACING IN WIDTH NOR 16 INCHES WHICHEVER IS SMALLER.

PLYWOOD NAILS SHALL BE COMMONS OR HOT DIP GALVANIZED BOX NAILS, U.N.O. EDGE NAILING SHALL BE LOCATED AT LEAST 3/8-INCH FROM PANEL EDGES. NAILS SHALL NOT BE OVER DRIVEN SUCH THAT THE NAIL HEAD PENETRATES THE FACE PLY. NAILS IN PRESSURE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED.

WOOD FRAMING MEMBERS SUCH AS STRUCTURAL SAWN LUMBER; END-JOINTED LUMBER; PREFABRICATED WOOD I-JOISTS; STRUCTURAL GLUED-LAMINATED TIMBER; WOOD STRUCTURAL PANELS; FIBERBOARD SHEATHING (WHEN USED STRUCTURALLY); HARDBOARD SIDING (WHEN USED STRUCTURALLY); PARTICLEBOARD; PRESERVATIVE-TREATED WOOD; STRUCTURAL LOG MEMBERS; STRUCTURAL COMPOSITE LUMBER; ROUND TIMBER POLES AND PILES; FIRE-RETARDANT-TREATED WOOD; HARDWOOD PLYWOOD; WOOD TRUSSES; JOIST HANGERS; NAILS; AND STAPLES SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CBC SECTION 23.





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2. FOR HABITABLE LEVELS OR BASEMENTS LOCATED MORE THAN ONE STORY ABOVE OR MORE THAN ONE STORY BELOW AN EGRESS DOOR, THE MAXIMUM TRAVEL DISTANCE FROM ANY OCCUPIED POINT TO A STAIRWAY OR RAMP THAT PROVIDES EGRESS FROM SUCH HABITABLE LEVEL OR BASEMENT, SHALL NOT EXCEED 50 FEET. CRC311.4.

3. 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 REQUIRED EGRESS DOOR WITHOUT REQUIRING TRAVEL THROUGH A GARAGE. CRC311.1.

4. LANDINGS OR FINISHED FLOORS AT THE REQUIRED EGRESS DOOR SHALL BE NOT MORE THAN 1-1/2 INCHES LOWER THAN THE TOP OF THE THRESHOLD. CRC311.3.1.

5. LANDINGS SHALL BE AT LEAST AS WIDE AS THE DOOR OR STAIRWAY SERVED AND SHALL BE 36" MINIMUM IN THE DIRECTION OF TRAVEL. CRC311.3.

6. A CONTINUOUS HANDRAIL SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS OR FLIGHT WITH FOUR OR MORE RISERS. CRC311.7.8

7. HANDRAIL HEIGHT, MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING OR FINISH SURFACE OF RAMP SLOPE, SHALL BE NOT LESS THAN 34" AND NOT MORE THAN 38". HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF AT LEAST 1-1/2" BETWEEN THE WALL AND THE HANDRAIL. CRC311.7.8.1. CRC311.7.8.3.

8. WINDER TREADS SHALL COMPLY WITH CRC311.7.5.2.1.

9. SPIRAL STAIRS SHALL COMPLY WITH CRC311.7.10.1.

10. RAMPS WITH A SLOPE MORE THAN 1 UNIT VERTICAL IN 12 UNITS HORIZONTAL SHALL BE PROVIDED WITH HANDRAILS ON AT LEAST ONE SIDE. CRC311.8.1.3.

11. DOORS OTHER THAN THE REQUIRED EGRESS DOOR SHALL BE PROVIDED WITH LANDINGS OR FLOORS NOT MORE THAN 7-3/4 INCHES BELOW THE TOP OF THE THRESHOLD. EXCEPTION: A TOP LANDING IS NOT REQUIRED WHERE A STAIRWAY OF NOT MORE THAN TWO RISERS IS LOCATED ON THE EXTERIOR SIDE OF THE DOOR, PROVIDED THAT THE DOOR DOES NOT SWING OVER THE STAIRWAY. CRC311.3.2.

STAIRS & DECKS

1. DECK FRAMING AND SUPPORT POSTS TO BE OF PRESERVATIVE TREATED OR NATURALLY DURABLE LUMBER. HARDWARE AND FASTENERS SHALL BE HOT-DIPPED GALVANIZED, STAINLESS STEEL, SILICON BRONZE, OR COPPER. CRC R317 PROTECTION OF WOOD AND WOOD-BASED PRODUCTS AGAINST DECAY, CRC R507.2.3 FASTENERS AND CONNECTORS. CBC 2304.10.5 FASTENERS AND CONNECTORS IN CONTACT WITH PRESERVATIVE—TREATED AND FIRE—RETARDANT—TREATED WOOD. CBC 2304.12 PROTECTION AGAINST DECAY AND TERMITES. WOOD SHALL BE PROTECTED FROM DECAY 2304.12.7.

2. ALL WOOD EXPOSED TO WEATHER TO BE PRESSURE TREATED, REDWOOD OR A TYPE OF WOOD THAT WILL RESIST DECAY. CBC 2304.12, CRC R317

3. WOOD/PLASTIC COMPOSITE DECK BOARDS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURE INSTALLATION INSTRUCTIONS. CRC R507.2.2, CRC R507.2.2.5

4. THE DECK ATTACHMENT FOR LATERAL LOADS SHOWS DTT1Z THIS DEVICE NEEDS TO BE MINIMUM 750 LB CAPACITY AT MINIMUM 4 LOCATIONS, EVENLY DISTRIBUTED ALONG DECK AND ONE WITHIN 24" OF EACH END OF THE LEDGER. CRC R507.9.2 LATERAL CONNECTION. FIGURE R507.9.2(1)

5. EXTERIOR DECKS AND STAIRWAYS ARE REQUIRED TO MEET FIRE SAFE REGULATIONS.

6. DECKS SHALL BE EITHER SELF-SUPPORTING OR POSITIVELY ANCHORED TO THE PRIMARY STRUCTURE. TOENAILS OR NAILS SUBJECT TO WITHDRAWAL SHALL NOT BE USED FOR SUCH ATTACHMENT. CRC R311.5

7. DECK GUARD RAIL MINIMUM 42" FROM FINISHED DECKING TO TOP OF GUARDRAIL. R312 CRC R312.1.2 HEIGHT.

8. HANDRAIL GRIP-SIZE PER CRC R311.7.8.3, CBC 1012.3.

9. STAIRWAY RISE 4" MIN, 7-34" MAX AND RUN 10" MIN, HANDRAIL TO BE 34" TO 38" ABOVE NOSE OF TREAD. MAXIMUM OPENING AT BALUSTERS OF STAIRWAY IS LESS THAN 4-3/8" AND THE TRIANGULAR OPENINGS FORMED BY THE RISE, TREAD AND BOTTOM ELEMENT OF RAIL LESS THAN 6" OPENING. GUARDRAILS MINIMUM 42" FROM FINISHED FLOOR TO TOP OF GUARDRAIL. MAXIMUM OPENING AT BALUSTERS AT GUARDRAILS IS LESS THAN 4". CRC R311.7.1. R311.7.5. R311.7.5.1. R311.7.5.2. R311.7.8. R311.7.8.3

10. THE RADIUS OF CURVATURE AT THE TREAD NOSING SHALL BE NOT GREATER THAN 9/16 INCH. A PROJECTION NOT LESS THAN ¼ INCH AND NOT MORE THAN 1-1/4 INCHES MAX. EXCEPTION: A NOSING PROJECTION IS NOT REQUIRED WHERE THE TREAD DEPTH IS NOT LESS THAN 11 INCHES. CRC R311.7.5.3 CBC 1011.5.5.1, CBC 11B-504.5.

11. GUARDS SHALL BE LOCATED ALONG OPEN SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS, LANDINGS, AND DECKS, THAT ARE MORE THAN 30" ABOVE THE FLOOR OR GRADE, MEASURED AT ANY POINT WITHIN 36" HORIZONTALLY. REQUIRED GUARDS SHALL BE NOT LESS THAN 42" ABOVE THE ADJACENT WALKING SURFACE. EXCEPT THAT HANDRAIL MAY BE CONSIDERED AS GUARDS AT STAIRWAYS. OPENINGS IN GUARDS SHALL NOT EXCEED 4". CRC R312

12. THE MINIMUM HEADROOM IN ALL PARTS OF THE STAIRWAY SHALL NOT BE LESS THAN 6'-8" MEASURED VERTICALLY FROM THE SLOPED LINE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM ON THAT PORTION OF THE STAIRWAY. R311.7.2.

13. OPEN RISERS ARE PERMITTED PROVIDED THAT THE OPENINGS LOCATED MORE THAN 30 INCHES, AS MEASURED VERTICALLY, TO THE FLOOR OR GRADE BELOW DO NOT PERMIT THE PASSAGE OF A 4-INCH DIAMETER SPHERE. CRC 311.7.5.1. OPEN RISERS NOT PERMITTED CBC 11B-504.3.

14. HANDRAILS REQUIRED ON NOT LESS THAN ONE SIDE OF EACH CONTINUOUS RUN OF TREADS OR FLIGHT WITH FOUR OR MORE RISERS. CRC 311.7.8.

WALL FRAMING

1. BEARING STUDS. WHERE JOISTS, TRUSSES OR RAFTERS ARE SPACED MORE THAN 16 INCHES ON CENTER AND THE BEARING STUDS BELOW ARE SPACED 24 INCHES ON CENTER, SUCH MEMBERS SHALL BEAR WITHIN 5 INCHES OF THE STUDS BENEATH. CRC R602.3.3.

2. THE MINIMUM NUMBER OF FULL HEIGHT STUDS (KING STUDS) AT EACH END OF A HEADER SHALL BE IN ACCORDANCE WITH CRC R602.7.5, TABLE R602.7(1) OR R602.7(2).

3. HEADER SUPPORT JACK (TRIMMER) STUDS NEED TO BE IN ACCORDANCE WITH (HEADER AND GIRDER SPANS FOR EXTERIOR BEARING WALLS. CRC R602.7.5, PER TABLE R602.7(1) OR R602.7(2) CBC 2308.4.1.1(1).

4. HEADER SUPPORT JACK (TRIMMER) STUDS NEED TO BE IN ACCORDANCE WITH (HEADER AND GIRDER SPANS FOR INTERIOR BEARING WALLS. CRC R602.7.5, PER TABLE R602.7(1) OR R602.7(2).

5. DOUBLE TOP PLATES SHALL HAVE A MINIMUM LAP OF 48". NAIL WITH EIGHT 16D NAILS ON EACH SIDE OF THE JOINT UNLESS ADDITIONAL NAILING IS SPECIFIED. PLATES AT INTERSECTIONS WITH BEARING WALLS AND CORNERS SHALL ALSO BE OVERLAPPED. CRC R602.3.2, CBC 2308.5.3.2.

6. TABLE 602.3. SOLE PLATE TO JOIST OR BLOCKING SHALL BE 16D AT 16" O.C. AND 3-16D AT 16" AT BRACED WALL PANELS. CRC TABLE R602.7(3).

7. FIRE BLOCKING IS REQUIRED IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. CBC 718.2, CRC R302.11, NO.3.

8. FOUNDATION CRIPPLE WALLS SHALL BE FRAMED OF STUDS NOT LESS IN SIZE THAN THE STUDS OF THE WALL ABOVE. CRIPPLE WALLS EXCEEDING 4' IN HEIGHT SHALL BE FRAMED OF STUDS AS REQUIRED FOR AN ADDITIONAL STORY. CRIPPLE WALLS SHALL BE SHEATHED. CRIPPLE WALLS LESS THAN 14" IN HEIGHT SHALL BE CONTINUOUSLY SHEATHED ON ONE SIDE WITH WOOD STRUCTURAL PANELS FASTENED TO BOTH THE TOP AND BOTTOM PLATES IN ACCORDANCE WITH TABLE R602.3(1) OR CONSTRUCTED OF SOLID BLOCKING. CRC R602.9 CRIPPLE WALL FRAMING, TABLE R602.3(1), R602.10.10 AND TABLES. CRIPPLE WALL BRACING, (6 TABLE REFERENCES IN THIS SECTION).

9. DRILLING AND NOTCHING OF STUDS AND TOP PLATES SHALL BE IN ACCORDANCE WITH SECTION CRC R602.6.

10. LOAD—BEARING DIMENSION LUMBER FOR STUDS, PLATES AND HEADERS SHALL BE IDENTIFIED BY A GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH CRC R602.1.1, R301.1.1.1.

11. BUILDINGS SHALL BE PROVIDED WITH EXTERIOR AND INTERIOR BRACED WALL LINES PER CBC 2308.6 SPACING SHALL NOT EXCEED 25 FEET ON CENTER FOR SEISMIC CATEGORY D AND E IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS IN EACH STORY. EACH BRACED PANEL SHALL START WITHIN 8' OF EACH CORNER AND INTERIOR INTERSECTING BRACED WALL LINE. CRC R602.10

12. MINIMUM WOOD STRUCTURAL PANEL SHEATHING NAILING: 8D AT 6" O.C. AT EDGES AND 12" O.C. IN FIELD. NAILING SHALL BE INSPECTED PRIOR TO COVERING. CRC R602.3.

13. PROVIDE ONE LAYER NO. 15 ASPHALT FELT OR OTHER APPROVED MATERIAL UNDER EXTERIOR SIDING. MATERIAL SHALL HAVE UPPER LAYER LAPPED 2" MIN OVER LOWER LAYER WITH 6" MIN LAPS AT CRC R703.2 AND CRC R703.2.

14. FIRE BLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, VERTICALLY AT FLOOR AND CEILING LEVELS, SOFFIT LEVELS AND HORIZONTALLY AT INTERVALS NOT TO EXCEED 10' CRC R302.11. CBC 718.2 FIRE BLOCKING.

15. ALTERNATE BRACED WALL PANELS SHALL COMPLY AS FOLLOWS.

STRUCTURAL SHEATHING CBC 2308.9.8.1.

ANCHORS AT OUTSIDE QUARTER POINTS 1 STORY 2308.9.3.1 #1.

CONTINUOUS FOOTING AND REBAR TOP AND BOTTOM CBC 2308.9.3.1 #2.

3 ANCHORS ON 1ST STORY OF 2 STORY CBC 2308.9.3.1 #2.

PORTAL FRAME BRACED PANEL 16" 1 STORY AND 24" TWO STORY: 10' MAX TO TOP OF HEADER AND WOOD STRUCTURAL SHEATH 1 SIDE ONLY TO TOP OF HEADER, STRAPS BETWEEN HEADER AND STUDS OR POSTS WITH TIE DOWNS BETWEEN STUDS / POSTS AND FOUNDATION ALL REQUIRED CBC 2308.9.3.2.

WALL COVERINGS

1. ENCLOSED USABLE SPACE UNDER STAIRS REQUIRES 1/2" GYPSUM BOARD PROTECTION CRC R302.7.

2. ALL AREAS BETWEEN RESIDENCE AND GARAGE REQUIRE TO HAVE ½" GYPSUM BOARD ON WALLS AND 5/8" TYPE X GYPSUM BOARD ON LID IF LIVING SPACE ABOVE. CRC R302.6, TABLE R302.6.

3. R-3 AND U OCCUPANCY EXTERIOR WALL REQUIREMENTS: (TBL-602 FT.NT.F/TBL-704.8)

ONE HOUR LESS THAN 5' TO PROPERTY LINE.

OPENINGS MORE THAN 3' AND LESS THAN 5' SHALL BE PROTECTED AND ARE LIMITED TO 15% OF THE WALL AREA. UNPROTECTED OPENINGS NOT ALLOWED.

WALL LESS THAN 5' FROM PROPERTY LINE MUST BE ONE HOUR RATED FROM BOTH SIDES OF THE WALL.

4. WHEN A STRUCTURE IS IN A STATE RESPONSIBILITY AREA (SRA) ALL NEW CONSTRUCTION SHALL COMPLY

WITH CRC R337

5. ALL FASTENERS USED FOR ATTACHMENT OF SIDING SHALL BE CORROSION RESISTANT. CRC R703.3.3.

ROOF & CEILING FRAMING

1. RAFTERS SHALL BE FRAMED DIRECTLY OPPOSITE EACH OTHER AT THE RIDGE. CBC 2308.7.3 CEILING JOIST AND RAFTER FRAMING. RAFTERS SHALL BE FRAMED DIRECTLY OPPOSITE EACH OTHER AT THE RIDGE. CRC R802.4.2 RAFTERS SHALL BE FRAMED NOT MORE THAN 1 1/2 INCHES (38 MM) OFFSET FROM EACH OTHER TO A RIDGE BOARD OR DIRECTLY OPPOSITE FROM EACH OTHER WITH A COLLAR TIE, GUSSET PLATE OR RIDGE STRAP IN ACCORDANCE WITH CRC TABLE R602.3(1). RAFTERS SHALL BE NAILED TO THE TOP WALL PLATES IN ACCORDANCE WITH CRC TABLE R602.3(1) UNLESS THE ROOF ASSEMBLY IS REQUIRED TO COMPLY WITH THE UPLIFT REQUIREMENTS OF SECTION CRC R802.11.

1. PURLINS TO SUPPORT ROOF LOADS MAY BE INSTALLED TO REDUCE THE SPAN OF RAFTERS WITHIN ALLOWABLE LIMITS AND SHALL BE SUPPORTED BY STRUTS TO BEARING WALLS. CRC R802.4.5, FIGURE R802.4.5.

2. SPANS FOR CEILING JOIST AND RAFTERS SHALL BE IN ACCORDANCE WITH CRC SPAN TABLES R802.1(1) THROUGH (8) FOR RAFTER SPANS AND TABLES R802.5.1(1) AND (2). FOR CEILING JOIST SPANS.

3. RAFTER TIE AND CROSS TIE CONNECTIONS TO RAFTER SHALL COMPLY WITH: CBC 2308.7.3.1, TABLES 2308.7.3.1 AND 2304.10.1, CBC 2308.8. TABLE 2308.7.3.1.

4. CEILING JOIST AND RAFTER CONNECTIONS SHALL COMPLY WITH CRC R802.5.2, TABLE R802.5.2, FIGURE R802.4.5 AND TABLE R802.5.2, TABLE R602.3(1), TABLE R802.5.2.

5. NAIL RAFTERS ADJACENT PARALLEL CEILING JOISTS. WHERE NOT PARALLEL, USE RAFTER TIES AT 4' O.C. MAX. RAFTER TIES SHALL USE ADJUSTMENT FACTOR IN FOOTNOTE H. FOR THE HEIGHT ABOVE SUPPORTING WALL AND THE LOCATION OF THE CONNECTION MUST BE IN LOWER THIRD OF ATTIC SPACE. CRC R802.5.2.2 RAFTER TIES. WOOD RAFTER TIES SHALL BE NOT LESS THAN 2 INCHES BY 4 INCHES INSTALLED IN ACCORDANCE WITH TABLE R802.5.2 AT EACH RAFTER. OTHER APPROVED RAFTER TIE METHODS SHALL BE PERMITTED.

6. PROVIDE COLLAR TIES OR RIDGE STRAP IN COMPLIANCE WITH CBC 2308.7.3.1, CRC R802.4.6, TABLE R602.3(1). TABLE R602.3(1) CRC R802.4.2. TABLE R602.3(1). TABLE R602.3(1) CRC R802.11.

7. RAFTER OR CEILING JOISTS SHALL HAVE AT LEAST  $1-\frac{1}{2}$ " BEARING ON WOOD OR METAL OR 3" ON MASONRY OR CONCRETE. CRC R802.6 BEARING.

8. ENDS OF CEILING JOISTS SHALL BE LAPPED A MINIMUM OF 3" OR BUTTED OVER BEARING PARTITIONS OR BEAMS AND TOE NAILED TO THE BEARING MEMBER. CRC R802.3.2. TABLE R802.5.2. CRC R802.5.2.1, TABLE R802.5.2, TABLE R602.3(1). TABLE R503.2.1.1(1).

9. STRUCTURAL MEMBERS THAT SUPPORT RAFTERS AND CEILING JOISTS WITH A ROOF SLOPE OF LESS THAN THREE UNITS VERTICAL IN 12 UNITS HORIZONTAL (25% SLOPE) SHALL BE DESIGNED AS BEAMS. STRUCTURAL MEMBERS INCLUDE RIDGE BEAMS, HIPS, AND VALLEYS. CRC R802.4.4, CRC R802.6.

10. HIP AND VALLEY RAFTERS SHALL BE SUPPORTED AT THE RIDGE BY A BRACE TO A BEARING PARTITION WHERE NOT DESIGNED TO CARRY AND DISTRIBUTE THE SPECIFIC LOAD AT THAT POINT. CRC R802.4.3.

11. WOOD STRUCTURAL PANEL SHEATHING WHEN DESIGNED TO BE PERMANENTLY EXPOSED IN OUTDOOR APPLICATIONS, SHALL BE OF AN EXTERIOR EXPOSURE DURABILITY IDENTIFIED AS EXPOSURE 1. WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE UNDERSIDE MAY BE IDENTIFIED AS EXPOSURE 1. MINIMUM NAILING IS 6" AT EDGES AND 12" IN THE FIELD, 8D COMMON OR BOX NAILS. NAIL PANELS TO BLOCKING BETWEEN RAFTERS. CRC R803.2.1.1, TABLE R503.2.1.1(1), CRC R603.9.3, FIGURE R603.9 AND TABLE CRC R603.3.2(1).

12. SOLID BLOCK ALL RAFTER AND TRUSSES AT EXTERIOR WALLS. NAIL BLOCKING TO TOP PLATE WITH 3 - 8D TOENAILS PER BLOCK OR PROVIDE CLIPS. CBC 2308.6.7.2 TOP PLATE CONNECTION. CRC R602.10.8.2 CONNECTIONS TO ROOF FRAMING.

13. CUTTING, BORING, AND NOTCHING OF STRUCTURAL ROOF MEMBERS SHALL COMPLY WITH CRC R802.7.

14. FRAMING FOR ROOF AND CEILING OPENINGS SHALL COMPLY WITH CRC R802.9.

15. ATTIC VENTILATION: 1/150 OF ATTIC AREA. CRC R806.2 MINIMUM VENT AREA. THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE. CBC 1202.2.2 OPENINGS INTO ATTIC.

16. WOOD STRUCTURAL ROOF PANEL SHEATHING SHALL COMPLY WITH CRC R803.2.

WINDOW GLAZING, ESCAPE AND RESCUE OPENINGS

1. ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM CLEAR OPENING OF 5.7 SQUARE FEET WITH A MINIMUM NET CLEAR OPENING WIDTH OF 20 INCHES AND HEIGHT OF 24 INCHES AND A MAXIMUM SILL HEIGHT OF 44" FROM FINISHED FLOOR TO NET CLEAR OPENING OF WINDOW. GRADE FLOOR WINDOW MAY BE TOTAL CLEAR OPENING OF 5.0 SQUARE FEET, AND A MAXIMUM SILL HEIGHT OF 44" FROM FINISHED GRADE / FLOOR TO NET CLEAR OPENING OF WINDOW. CRC 310.2.1, CRC 310.2.2, AND CBC 1029.

2. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE CLEAR OF ANY OBSTRUCTION AND OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS, OR SPECIAL KNOWLEDGE. CRC310.1.1, CRC310.4.

3. WINDOWSILLS —— IN DWELLING UNITS, WHERE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE THE FINISHED GRADE OR SURFACE BELOW ON THE EXTERIOR OF THE BUILDING SHALL HAVE THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW A MINIMUM OF 24 INCHES ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. CRC312.1, CRC312.2.

4. IDENTIFICATION OF SAFETY GLAZING SHALL BE IN ACCORDANCE WITH CRC308.1.

5. GLAZING IN THE FOLLOWING LOCATIONS SHALL BE SAFETY GLAZING CONFORMING TO THE HUMAN IMPACT LOADS OF CRC308.3 AND CRC308.4.

FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BI-FOLD DOOR ASSEMBLIES.

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60" ABOVE THE FLOOR OR WALKING SURFACE.

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL THE FOLLOWING CONDITIONS: 1—EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQUARE FEET. 2—BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR. 3—TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR. 4—ONE OR MORE WALKING SURFACES WITHIN 36" HORIZONTALLY OF THE GLAZING.

GLAZING IN RAILINGS.

GLAZING IN ENCLOSURES FOR OR WALL FACING HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, AND SHOWERS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.

GLAZING IN WALLS AND FENCES ADJACENT TO INDOOR AND OUTDOOR SWIMMING POOLS, HOT TUBS, AND SPAS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE A WALKING SURFACE AND WITHIN 60 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE WATER'S EDGE.

GLAZING ADJACENT TO STAIRWAYS, LANDINGS, AND RAMPS WITHIN 36" HORIZONTALLY OF A WALKING SURFACE WHEN THE SURFACE OF THE GLAZING IS LESS THAN 60" ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE.

6. SKYLIGHTS AND SLOPED GLAZING SHALL COMPLY WITH CRC308.6. FULL TEMPERED SAFETY GLASS, APPROVED RIGID PLASTICS, AND TESTED AND LABELED TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF AAMA/WDMA/CSA 101/I.S.2/A440, AND WDMA I.S.11. CRC308.6, CRC308.6.2, CRC308.6.5, CRC308.6.9, CRC308.6.9.1

LIGHT, VENTILATION, AND ROOM AREAS

1. ALL HABITABLE ROOMS SHALL HAVE AGGREGATE GLAZING OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA TO PROVIDE NATURAL LIGHT, OR THEY SHALL BE PROVIDED WITH ARTIFICIAL LIGHT PER CRC303.1.

2. ALL HABITABLE ROOMS SHALL BE PROVIDED WITH NATURAL VENTILATION THROUGH OPENINGS TO THE OUTDOOR AIR, OR THEY SHALL BE PROVIDED WITH MECHANICAL VENTILATION IN ACCORDANCE WITH

3. PROVIDE BATHROOM EXHAUST FAN FOR EACH BATHROOM CONTAINING A BATHTUB, SHOWER, OR COMBINATION FOR PURPOSE OF HUMIDITY CONTROL. CRC303.3.1.

4. ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE ILLUMINATED. EXTERIOR STAIRWAY ILLUMINATION SHALL BE CONTROLLED FROM INSIDE OF THE DWELLING. CRC303.7, CRC303.8.

5. EACH BATHROOM CONTAINING A BATHING FACILITY SHALL BE MECHANICALLY VENTILATED FOR THE PURPOSES OF HUMIDITY CONTROL. CRC303.3.1.

6. BATHROOMS, WATER CLOSET COMPARTMENTS AND SIMILAR ROOMS SHALL HAVE WINDOW AT LEAST 3 SQUARE FEET IN AREA, HALF OF WHICH MUST BE OPENABLE, OR MECHANICAL VENTILATION MUST BE PROVIDED. CRC303.3.

TVCE

67 WALNUT WAY

PO BOX 1567



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RAL BUILDING NOTI

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DATE OF ISSUE:

APRIL 2022

SCALE:
AS SHOWN

PROJECT NO: 502.60

DRAWING NO:

G03

1/2" 1"

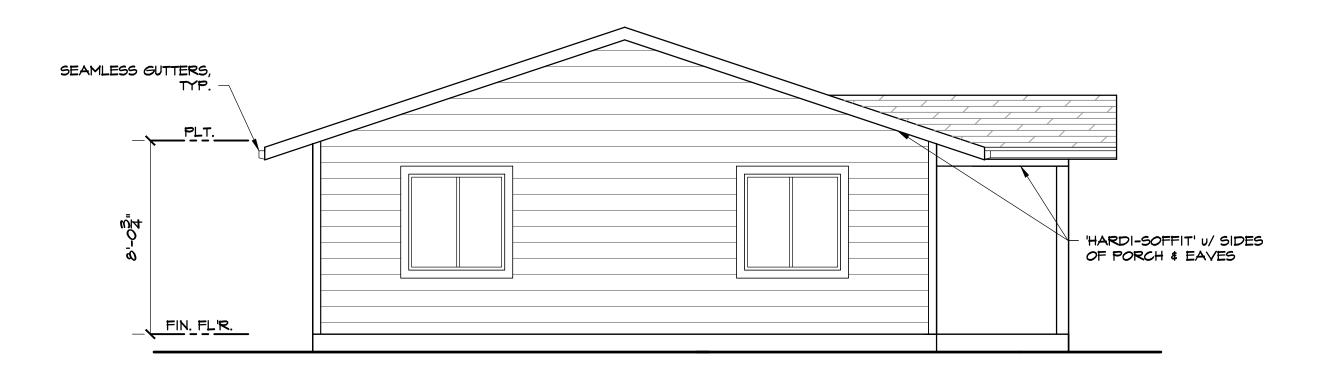
#### BUILDING CODE COMPLIANCE

BUILDING SHALL COMPLY WITH 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA RESIDENTIAL CODE (CRC), 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA ELECTRICAL CODE (CEC), 2022 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE, 2022 CALIFORNIA FIRE CODE (CFC), 2022 GREEN BUILDING STANDARDS CODES, AND ALL APPLICABLE CODES.

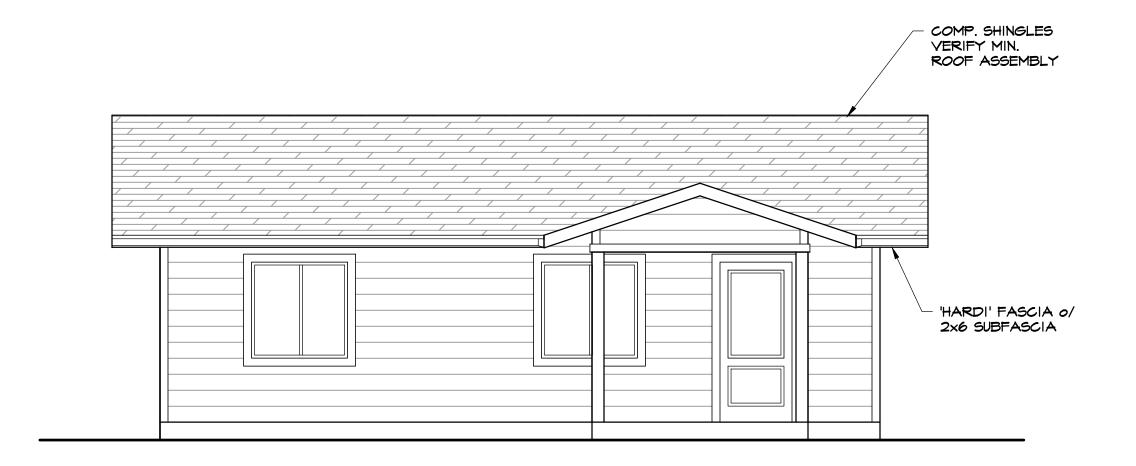


## NORTH ELEVATION

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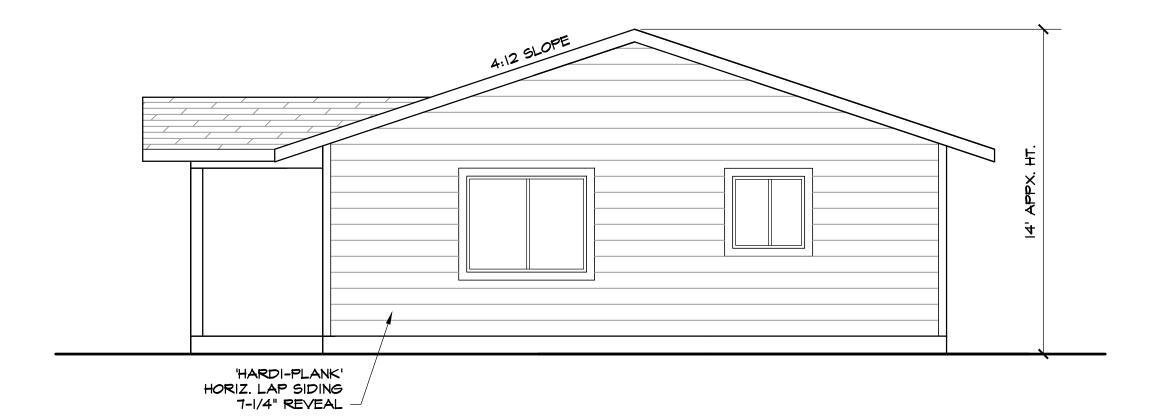
## EAST ELEVATION 1/4"=1'-0"



SOUTH ELEVATION

1/4"=1'-0"





MEST ELEVATION

1/4"=1'-0"



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DRAWING NO:

TRINITY VALLEY CONSULTING ENGINEERS, INC.

INSTALL 1/2" CDX w/ 8d @ 6" O/C B.N., 12" O/C IN FIELD, ON ALL SHEETABLE

2. DBL. 2x STUDS ATTACHED TO HOLDOWNS SHALL BE SISTERED TOGETHER W/

STATE REGULATED WILD LAND FIRE STANDARDS

EXTERIOR SIDING PRODUCTS, INCLUDING SHEATHING, TO BE OF APPROVED PRODUCTS

EXTERIOR DOORS TO BE NON COMBUSTIBLE CONSTRUCTION, OR 1-3/4" SOLID CORE

DECKING SURFACES TO BE APPROVED PRODUCT. [NON-IGNITIBLE, CAL-FIRE URBAN

NO. 72 VALLEY FLASH UNDERLAYMENT CAP SHEET RUNNING FULL LENGTH OF VALLEY

ROOF GUTTERS SHALL BE PROVIDED WITH A MEANS TO PREVENT THE ACCUMULATION

EAVE AND SOFFIT VENTS MUST BE FIRE RATED TO PRECLUDE EMBER AND FLAME

UNDERSIDES OF EAVES SHALL BE IGNITION RESISTANT OR NON-COMBUSTIBLE.

If clothes washing machines and clothes dryers are provided in covered multifamily

request of the occupant, to permit the use of top-loading clothes washers.

Section 1136A Electrical Receptacle, Switch and Control Heights

PROVIDE WATER HEATER TEMPERATURE /PRESSURE RELIEF

VALVE WITH DRAIN TO EXTERIOR OF BUILDING WITH 90-ELBOW MIN. 6" AND MAX. 24" FROM FINISHED GRADE

ACCORDANCE WITH THE TERMS OF IT'S LISTING AND IN

ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.

SHOWERS AND TUB-SHOWER COMBINATIONS WITH CONTROL

VALVE TYPE: INSTALLER SHALL ADJUST PER MANUFACTURER INSTRUCTIONS TO DELIVER A MAX. MIXED WATER SETTING OF

PROVIDE NON-REMOVABLE BACKFLOW PREVENTION DEVICES

CLOTHES DRYER(S) SHALL VENT TO EXTERIOR OF BUILDING. VENT

MAKE UP AIR SHALL BE PROVIDED FOR TYPE I CLOTHES DRYERS IN

Where a compartment or space for a Type I clothes dryer is provided, not less than a 4 inch

Type I clothes dryer exhaust ducts shall be of rigid metal and shall have smooth interior

surfaces. The diameter shall be not less than 4 inches nominal (100 mm) and the thickness shall

Unless otherwise permitted or required by the dryer manufacturer's instructions and approved

by the Authority Having Jurisdiction, domestic dryer moisture exhaust ducts shall not exceed a

total combined horizontal and vertical length of 14 feet (4267 mm), including two 90 degree

(1.57 rad) elbows. A length of 2 feet (610 mm) shall be deducted for each 90 degree (1.57

diameter (102 mm) exhaust duct of approved material shall be installed in accordance with

LENGTH SHALL BE A MAXIMUM OF 14', OR HAVE AN APPROVED

VALVES OF THE PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING

TANKLESS WATER HEATER SHALL BE INSTALLED IN

dwelling units, one of each type of appliance shall be provided. Where front-loading clothes washers are not provided, management shall provide assistive devices, on

DEFENSIBLE SPACE MUST BE SIGNED OFF PRIOR TO SHEET ROCK INSPECTION.

WINDOWS SHALL HAVE MINIMUM ONE TEMPERED PANE (PER SRA STNDRDS.)

EXTERIOR WALL SURFACES, UNLESS NOTED OTHERWISE ON SHEAR PLAN.

DATE OF ISSUE:

JAN. 23, '17 SCALE: as noted

JN# 236.02 DRAWING NO:

PROJECT NO:

SHEARWALL SCHEDULE WALL LINE | STORY | SHEATHING | FRAMING 8d NAILING ANCHOR BOLTS CONNECTIONS 7/16" CD PLY. 2x6 @ 16" O/C | 6" EDGE /12" FIELD 5/8"xIO" @ 48" O/C HDU2 HOLDOWN 2-1 7/16" CD PLY. 2×6 @ 16" 0/C | 6" EDGE /12" FIELD 5/8"×IO" @ 48" O/C HDU2 HOLDOWN A-I 7/16" CD PLY. | 2x6 @ |6" 0/C | 6" EDGE /|2" FIELD | 5/8"xIO" @ 48" O/C B-I 7/16" CD PLY. | 2x6 @ 16" O/C | 6" EDGE /12" FIELD | 5/8"x10" @ 48" O/C

SHEAR NOTES

(2)-16d @ 12" O/C.

(CAL-FIRE URBAN INTERFACE APPROVED).

WOOD, OR 20-MIN. FIRE RATED.

UNLESS ROOF COVER IS INTERWOVEN.

ENTRANCE (CAL-FIRE URBAN INTERFACE APPROVED).

INTERFACE APPROVED]

OF LEAVES.

1135A.I General

-- WATER HEATER --

-- SHOWERS /TUB-SHOWERS --

120-DEGRESS FAHRENHEIT.

-- HOSE BIBS --

BOOSTER FAN.

ON ALL HOSE BIBS.

-- CLOTHES DRYER --

ACCORDANCE WITH MANUF. SPECS.

504.4.2 Domestic Clothes Dryers

504.4.2.1 Length Limitation

rad) elbow in excess of two.

be not less than 0.016 of an inch (0.406 mm).

Section 1135A Laundry Rooms

DOOR SCHEDULE SOLID CORE WD. 3'-0"x6'-8" n/ 1/2-GLZ'G. 3'-0"x6'-8" RAISED PANEL 2'-0"x6'-8" INTERIOR BYPASS RAISED PANEL INTERIOR BIFOLD 2'-6"x6'-8" FULLY LOUVERED (COMBUSTION AIR)

SEE FLOOR PLAN FOR SWING DIRECTION & NECC. HARDWARE SEE SRA NOTE [D] FOR EXTERIOR DOORS

	MINE	POW SCHEDULE
(A)	3'-0"x3'-0"	HORIZONTAL SLIDER
(B)	5'-0"×4'-0"	HORIZONTAL SLIDER EGRESS WHERE NOTED
(c)	2'-0"x3'-0"	SINGLE HUNG OBSCURED TEMP. GLZ'G.

FULLY TEMPERED GLAZING, WHERE NOTED ON FLOOR PLAN

SEE ENERGY COMPLIANCE DOCS FOR MIN. U-FACTOR, SHGC

#### \* 1133A.2.1 Clear Width

2-1

COV. PORCH

26'-0"

MIN. 30"

NORKSPACE

REF'R

34" MAX. HT.

PANTRY CAB.

ACCESSIBLE UNIT:

BASE CABINET U/ SINK (30")

FLR'G. SHALL EXTEND TO WALL

DINING

AIR HANDLER IN ATTIC

LIVING AREA

BEDROOM (I)

EGRESS

II'-8<sup>|</sup> "

KITCHEN COUNTERTOPS TILED

SHALL BE REMOVABLE;

Kitchens shall have a minimum clear width measured between any cabinet, countertop or the face of any appliance (excluding handles and controls) that projects into the

U-shaped kitchens, designed with parallel approach at a range or cooktop located at the base of the U, shall have a minimum clear width of at least 60 inches.

#### 1133A.4 Countertops

Kitchen countertops shall comply with this section and shall be provided with the following: A minimum linear length of 30 inches of countertop shall be provided for the kitchen

or be separate components.

the required 30 inches of countertop work surface.

The sides of adjacent cabinets and the back wall, which may become exposed to moisture or food handling when a countertop is lowered, shall be constructed of durable, nonabsorbent materials appropriate for such uses.

Finished flooring shall be extended to the wall beneath the sink and work surface.

Stone, cultured stone and tiled countertops may be used without meeting the

#### repositioning requirements.

Lower shelving and/or drawer space shall be provided in the kitchen at a height of

Faucet controls and operating mechanisms shall be operable with one hand and shall

The force required to activate controls shall be no greater than 5 pounds. Lever-operated, push-type and electronically controlled mechanisms are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.

#### 1133A.7 Knee and Toe Space

Knee and toe space, when required by Section 1133A, shall comply with Section 1138A.2 and the following: The knee and toe space shall be clear and unobstructed, or removable base cabinets in compliance with Section 1133A.3 shall be provided. The knee and toe space shall be 30 inches wide minimum, centered on the sink, countertop or appliance. A clear floor space shall not extend into the knee and toe space more than 19

Mater supply and drain pipes under kitchen sinks shall be insulated or otherwise covered to protect against contact. There shall be no sharp or abrasive surfaces under kitchen sinks.

ALL WINDOWS SHALL BE DUAL GLAZED AND VINYL FRAMED

SEE SRA NOTE [E] FOR WINDOWS WITHIN AN SRA AREA

kitchen and the opposing cabinet, countertop, appliance or wall as follows:

sink installation.

A minimum linear length of 30 inches of countertop shall be provided for a work Sinks and work surfaces may be a single integral unit a minimum of 60 inches in length,

Exception: Two 15-inch (381 mm) wide minimum breadboards may be provided in lieu of

#### 1133A.4.1 Repositionable Countertops

Repositionable countertops shall be provided in a minimum of 5 percent of the covered multifamily dwelling units. Repositionable countertops shall comply with the following: Sinks and work surfaces required by Section 1133A.4 shall be designed to enable repositioning to a minimum height of 28 inches.

Base cabinets directly under sinks and work surfaces shall be removable as required in Section 1133A.3.

1133A.5 Lower Shelving

no more than 48 inches above the floor.

#### 1133A.6 Kitchen Sink Faucet Controls

not require tight grasping, pinching or twisting of the wrist.

#### 1133A.7.1 Plumbing Protection

₿ BEDROOM (2) (A-I)-II'-II날" 2'-4" 26'-0" FLOOR PLAN 1/4"=1'-0"

TANKLESS

(PROPANE)

FIRE RISER

D/W

KITCHEN

ACCESS BLE

MALL-MNT.

MIN. 22"x30"

ATTIC ACCESS

(ADA WC)

W/H 92% EFF.

GEN.

PAD

(COND)

30"x48" CL'R. SPACE PROVIDED @ RANGE

VENT DRYER TO EXT.

THRU ATTIC; INSTALL BOOSTER FAN AS REQ'D.

FOR LENGTH

30"x48" CL'R. SPACE

AS SHOWN; DR. DOES NOT ENCROACH, TYP.



8.20 HSPF 14.0 SEER

SUPPLY AIR TO EACH ROOM

SPLIT HEAT PUMP

30"x60" MINIMUM COMPARTMENT SIZE

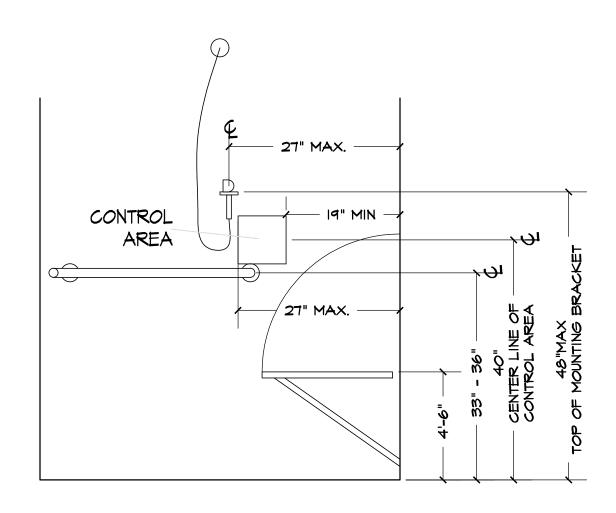
SHOWER SEAT AND GRAB BARS SHALL SUPPORT 250 LB. LOAD APPLIED AT ANY POINT.

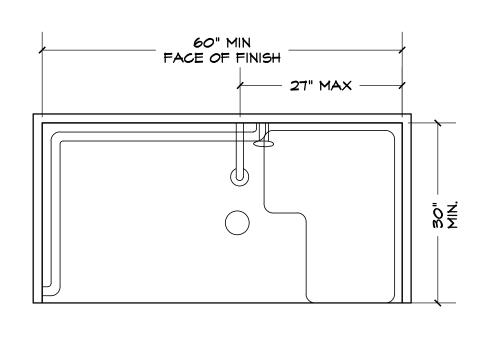
WHEN FOLDED, THE SHOWER SEAT SHALL NOT EXTEND MORE THAN 6" FROM MOUNTING WALL.

SHOWER HEAD SHALL BE MOUNTED ON A 60 INCH MIN. LENGTH FLEXIBLE HOSE

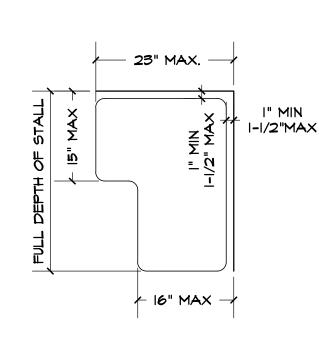
A BRACKET SHALL BE PROVIDED SUCH THAT SHOWER MAY BE USED AS EITHER A HANDHELD OR A FIXED HEAD

IF A SOAP DISH IS PROVIDED IT SHALL BE MOUNTED ON THE CONTROL WALL, A MAX. OF 40" ABOVE THE FLOOR, AND WITHIN REACH LIMITS FROM THE SEAT.



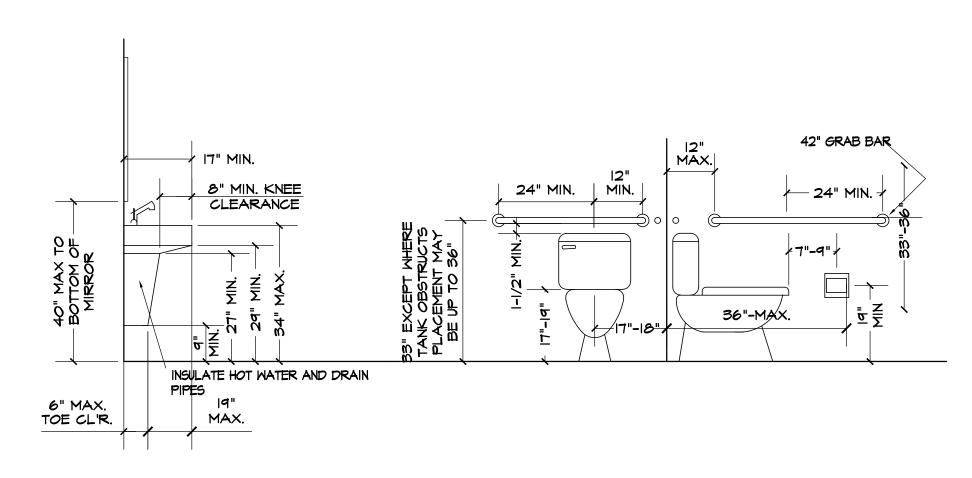


LAVATORY DETAIL



TOILET DETAIL

ROLL-IN SHOWER



RESIDENTIAL ACCESSIBLE RESTROOM FIXTURE DETAILS

#### 1134A.6 Showers

The shower stall shall measure at least 30 inches deep by 60 inches wide with an entrance opening of at least 60 inches.

The maximum slope of the shower floor shall be 1/2 inch per foot in any direction and shall slope to a drain. The floor surfaces shall be of Carborundum or grit-faced tile or of material providing equivalent slip resistance.

A clear maneuvering space at least 30 inches in width by 48 inches in length shall be located outside the shower, flush and parallel to the control wall.

Grab bar reinforcement shall be installed continuous in the walls of showers 32 inches to 38 inches above the floor. The grab bar reinforcement shall be a minimum of 6 inches nominal in height.

When a threshold is used, it shall be a maximum of 2 inches in height and have a beveled or sloped angle not exceeding I unit vertical in 2 units horizontal (26.6 degrees from the horizontal). Thresholds I/2 inch or less in height may have a beveled or sloped angle not exceeding I unit vertical in I unit horizontal (45 degrees from the horizontal).

Faucet controls and operation mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall be no greater than 5 pounds. Lever operated, push-type and electronically controlled mechanisms are examples of acceptable designs.

Shower enclosures. substantially constructed from approved, shatter-resistant materials. Hinged shower doors shall open outward. Glazing used in doors and panels of shower enclosures shall be fully tempered, laminated safety glass or approved plastic. When glass is used, it shall have minimum thickness of not less than 1/8 inch when fully tempered, or 1/4 inch when laminated, and shall pass the test requirements of this part, Chapter 24, Glass and Glazing. Plastics used in doors and panels of shower enclosures shall be of a shatter-resistant type.

#### 1134A.7 Water Closets

The minimum floor space provided at a water closet shall be 48 inches in clear width. The clear floor space shall extend past the front edge of the water closet at least 36 inches.

Exception: The 48-inch minimum clear width may be reduced to 36 inches for lavatories, cabinets, wing walls or privacy walls located immediately adjacent to a water closet which extend no more than 24 inches in depth.

Water closets shall be located within bathrooms in a manner that permits a grab bar to be installed on at least one side of the fixture. The centerline of the water closet shall be 17 inches minimum to 18 inches maximum from a grab bar wall or partition. In locations where water closets are adjacent to non-grab bar walls, vanities, lavatories or bathtubs, the centerline of the fixture shall be a minimum of 18 inches from the obstacle.

Where the water closet is placed adjacent to a side wall, reinforcement shall be installed on both sides or one side and the back. If reinforcement is installed at the back, it shall be installed between 32 inches and 38 inches above the floor. The grab bar reinforcement shall be a minimum of 6 inches nominal in height. The backing shall be a minimum of 40 inches in length.

Reinforcement installed at the side of the water closet shall be installed 32 inches to 38 inches above the floor. The reinforcement shall be installed a maximum of 12 inches from the rear wall and shall extend a minimum of 26 inches in front of the water closet. The grab bar reinforcement shall be a minimum of 6 inches nominal in height.

The minimum height of water closet seats shall be 15 inches above the floor.

Water closet controls shall be mounted no more than 44 inches above the floor. The force required to activate controls shall be no greater than 5 pounds.

#### 1134A.8 Lavatories, Vanities, Mirrors and Towel Fixtures

Bathrooms or powder rooms required to be accessible shall have at least one accessible lavatory. Where mirrors and towel fixtures are provided, at least one of each shall be accessible.

Vanities and lavatories shall be installed with the centerline of the fixture a minimum of 18 inches horizontally from an adjoining wall or fixture to allow for forward approach. When parallel approach is provided, lavatories shall be installed with the centerline of the fixture a minimum of 24 inches horizontally from an adjoining wall or fixture. The top of the fixture rim shall be a maximum of 34 inches above the finished floor.

A clear maneuvering space at least 30 inches by 48 inches shall be provided at lavatories and shall be centered on the lavatory.

Cabinets under lavatories are acceptable provided the bathroom has space to allow a parallel approach by a person in a wheelchair and the lavatory cabinets are designed with adaptable knee and toe space.

Knee and toe space shall be provided by one of the following:
The space beneath the lavatory shall be left clear and unobstructed;
Any cabinet beneath the lavatory shall be removable without the use of specialized knowledge or specialized tools; or
Doors to the cabinet beneath the lavatory shall be removable or openable to

The knee and toe space shall be centered on the fixture, and shall comply with Section 1138A.2. The clear floor space required by Item 2 shall not extend into the knee and toe space more than 19 inches.

The finished floor beneath the lavatory shall be extended to the wall.

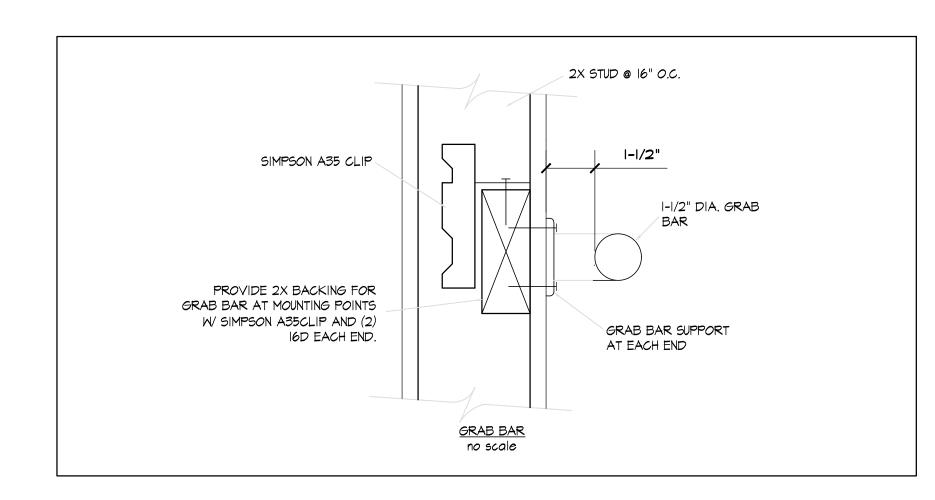
provide the required unobstructed knee and toe space.

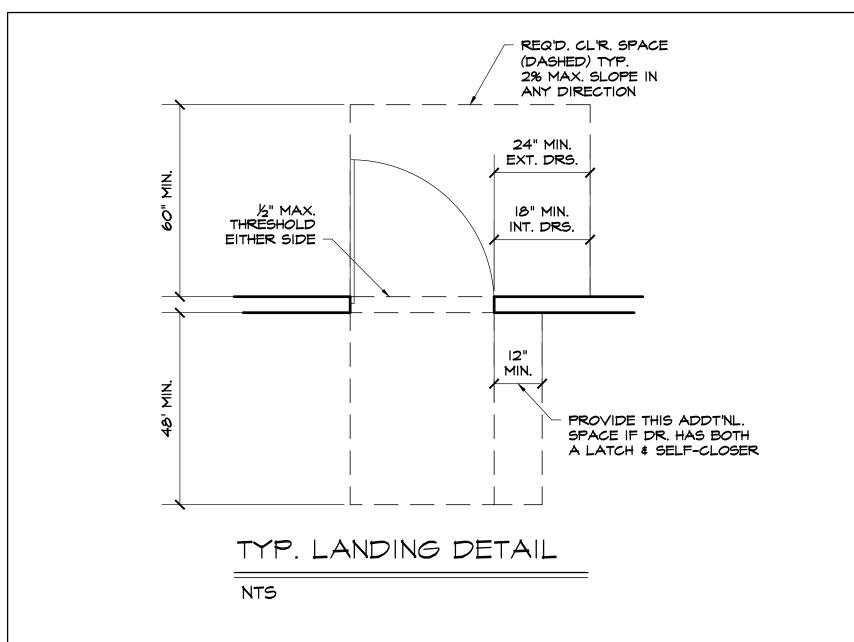
Water supply and drain pipes under lavatories shall be insulated or otherwise covered to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.

Faucet controls and operation mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist.

The force required to activate controls shall be no greater than 5 pounds. Lever operated, push-type and electronically controlled mechanisms are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.

Mirrors and towel fixtures. Where mirrors or towel fixtures are provided they shall be mounted with the bottom edge no higher than 40 inches from the floor.



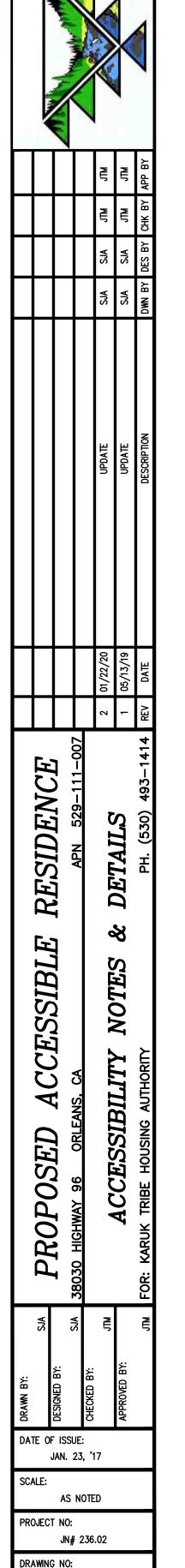


#### ACCESSIBLE DOOR NOTES

- PROVIDE LEVEL LANDINGS (2% MAX. SLOPE) EACH SIDE OF ALL DOORS AS DIMENSIONED ON FLOOR PLAN, WITH 1/2" MAX. FROM TOP OF THRESHOLD TO LANDING ON EACH SIDE OF DOOR.
- HARDWARE AT ALL DOORS, EXCEPT STOREFRONT, SHALL BE LEVER TYPE, CENTERED BETWEEN 34" AND 44". MAXIMUM CLOSURE FORCE OF 5 POUNDS FOR INTERIOR DOORS.
- THE BOTTOM IO" OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE
- THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS, WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGES DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. WHEN FIRE DOORS ARE UTILIZED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO NOT EXCEED IS POUNDS



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#### 215 Fire Alarm Systems

215.1 General. Where fire alarm systems provide audible alarm coverage, alarms shall comply with 215.

Advisory 215.1 General. Unlike audible alarms, visible alarms must be located within the space they serve so that the signal is visible. Facility alarm systems (other than fire alarm systems) such as those used for tornado warnings and other emergencies are not required to comply with the technical criteria for alarms in Section 702. Every effort should be made to ensure that such alarms can be differentiated in their signal from fire alarms systems and that people who need to be notified of emergencies are adequately safeguarded. Consult local fire departments and prepare evacuation plans taking into consideration the needs of every building occupant, including people with disabilities.

- 215.2 Public and Common Use Areas. Alarms in public use areas and common use areas shall comply with 702.
- 215.5 Residential Facilities. Where provided in residential dwelling units required to comply with 809.5, alarms shall comply with 702.

#### 702 Fire Alarm Systems

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

#### 703 Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

#### 706 Assistive Listening Systems

706.1 General. Assistive listening systems required in assembly areas shall comply with 706.

Advisory 706.1 General. Assistive listening systems are generally categorized by their mode of transmission. There are hard-wired systems and three types of wireless systems: induction loop, infrared, and FM radio transmission. Each has different advantages and disadvantages that can help determine which system is best for a given application. For example, an FM system may be better than an infrared system in some open-air assemblies since infrared signals are less effective in sunlight. On the other hand, an infrared system is typically a better choice than an FM system where confidential transmission is important because it will be contained within a given space.

The technical standards for assistive listening systems describe minimum performance levels for volume, interference, and distortion. Sound pressure levels (SPL), expressed in decibels, measure output sound volume. Signal-to-noise ratio (SNR or S/N), also expressed in decibels, represents the relationship between the loudness of a desired sound (the signal) and the background noise in a space or piece of equipment. The higher the SNR, the more intelligible the signal. The peak clipping level limits the distortion in signal output produced when high-volume sound waves are manipulated to serve assistive listening devices.

Selecting or specifying an effective assistive listening system for a large or complex venue requires assistance from a professional sound engineer. The Access Board has published technical assistance on assistive listening devices and systems.

706.2 Receiver Jacks. Receivers required for use with an assistive listening system shall include a 1/8 inch (3.2 mm) standard mono jack.

706.3 Receiver Hearing-Aid Compatibility. Receivers required to be hearing-aid compatible shall interface with telecoils in hearing aids through the provision of

Advisory 706.3 Receiver Hearing-Aid Compatibility. Neckloops and headsets that can be worn as neckloops are compatible with hearing aids. Receivers that are not compatible include earbuds, which may require removal of hearing aids, earphones, and headsets that must be worn over the ear, which can create disruptive

706.4 Sound Pressure Level. Assistive listening systems shall be capable of providing a sound pressure level of 110 dB minimum and 118 dB maximum with a dynamic range on the volume control of 50 dB.

706.5 Signal-to-Noise Ratio. The signal-to-noise ratio for internally generated noise in assistive listening systems shall be 18 dB minimum.

706.6 Peak Clipping Level. Peak clipping shall not exceed 18 dB of clipping relative to the peaks of speech.

#### 708 Two-Way Communication Systems

708.1 General. Two-way communication systems shall comply with 708.

Advisory 708.1 General. Devices that do not require handsets are easier to use by people who have a limited reach.

708.2 Audible and Visual Indicators. The system shall provide both audible and visual signals.

interference in the transmission and can be uncomfortable for people wearing hearing aids.

Advisory 708.2 Audible and Visual Indicators. A light can be used to indicate visually that assistance is on the way. Signs indicating the meaning of visual signals should be provided.

708.3 Handsets. Handset cords, if provided, shall be 29 inches (735 mm) long minimum.

708.4 Residential Dwelling Unit Communication Systems. Communications systems between a residential dwelling unit and a site, building, or floor entrance shall comply with 708.4.

708.4.1 Common Use or Public Use System Interface. The common use or public use system interface shall include the capability of supporting voice and TTY communication with the residential dwelling unit interface.

708.4.2 Residential Dwelling Unit Interface. The residential dwelling unit system interface shall include a telephone jack capable of supporting voice and TTY communication with the common use or public use system interface.

#### 809 Residential Dwelling Units

alarm activation.

809.1 General. Residential dwelling units shall comply with 809. Residential dwelling units required to provide mobility features shall comply with 809.2 through 809.4. Residential dwelling units required to provide communication features shall comply with 809.5.

809.2 Accessible Routes. Accessible routes complying with Chapter 4 shall be provided within residential dwelling units in accordance with 809.2.

EXCEPTION: Accessible routes shall not be required to or within unfinished attics or unfinished basements

809.2. Location. At least one accessible route shall connect all spaces and elements which are a part of the residential dwelling unit. Where only one accessible route is provided, it shall not pass through bathrooms, closets, or similar spaces.

809.2.2 Turning Space. All rooms served by an accessible route shall provide a turning space complying with 304.

EXCEPTION: Turning space shall not be required in exterior spaces 30 inches (760 mm) maximum in depth or width.

Advisory 809.2.2 Turning Space. It is generally acceptable to use required clearances to provide wheelchair turning space. For example, in kitchens, 804.3.1 requires at least one work surface with clear floor space complying with 306 to be centered beneath. If designers elect to provide clear floor space that is at least 36 inches (915 mm) wide, as opposed to the required 30 inches (760 mm) wide, that clearance can be part of a T-turn, thereby maximizing efficient use of the kitchen area. However, the overlap of turning space must be limited to one segment of the T-turn so that back-up maneuvering is not restricted. It would, therefore, be unacceptable to use both the clearances under the work surface and the sink as part of a T-turn. See Section 304.3.2 regarding T-turns.

809.3 Kitchen. Where a kitchen is provided, it shall comply with 804.

809.4 Toilet Facilities and Bathing Facilities. At least one bathroom shall comply with 603. No fewer than one of each type of fixture provided shall comply with applicable requirements of 603 through 610. Toilet and bathing fixtures required to comply with 603 through 610 shall be located in the same toilet and bathing area, such that travel between fixtures does not require travel between other parts of the residential dwelling unit.

Advisory 809.4 Toilet Facilities and Bathing Facilities. In an effort to promote space efficiency, vanity counter top space in accessible residential dwelling units is often omitted. This omission does not promote equal access or equal enjoyment of the unit. Where comparable units have vanity counter tops, accessible units should also have vanity counter tops located as close as possible to the lavatory for convenient access to toiletries.

809.5 Residential Dwelling Units with Communication Features. Residential dwelling units required to provide communication features shall comply with 809.5.

809.5.1 Building Fire Alarm System. Where a building fire alarm system is provided, the system wiring shall be extended to a point within the residential dwelling unit in the vicinity of the residential dwelling unit smoke detection system.

809.5.1.1 Alarm Appliances. Where alarm appliances are provided within a residential dwelling unit as part of the building fire alarm system, they shall comply with

809.5.1.2 Activation. All visible alarm appliances provided within the residential dwelling unit for building fire alarm notification shall be activated upon activation of the building fire alarm in the portion of the building containing the residential dwelling unit.

809.5.2 Residential Dwelling Unit Smoke Detection System. Residential dwelling unit smoke detection systems shall comply with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter I).

809.5.2.1 Activation. All visible alarm appliances provided within the residential dwelling unit for smoke detection notification shall be activated upon smoke

809.5.3 Interconnection. The same visible alarm appliances shall be permitted to provide notification of residential dwelling unit smoke detection and building fire

809.5.4 Prohibited Use. Visible alarm appliances used to indicate residential dwelling unit smoke detection or building fire alarm activation shall not be used for any other purpose within the residential dwelling unit.

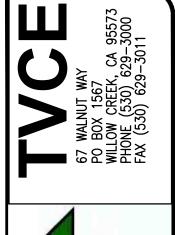
809.5.5 Residential Dwelling Unit Primary Entrance. Communication features shall be provided at the residential dwelling unit primary entrance complying with *80*9.5.5.

809.5.5. Notification. A hard-wired electric doorbell shall be provided. A button or switch shall be provided outside the residential dwelling unit primary entrance. Activation of the button or switch shall initiate an audible tone and visible signal within the residential dwelling unit. Where visible doorbell signals are located in sleeping areas, they shall have controls to deactivate the signal.

809.5.5.2 Identification. A means for visually identifying a visitor without opening the residential dwelling unit entry door shall be provided and shall allow for a minimum 180 degree range of view.

Advisory 809.5.5.2 Identification. In doors, peepholes that include prisms clarify the image and should offer a wide-angle view of the hallway or exterior for both standing persons and wheelchair users. Such peepholes can be placed at a standard height and permit a view from several feet from the door.

809.5.6 Site, Building, or Floor Entrance. Where a system, including a closed-circuit system, permitting voice communication between a visitor and the occupant of the residential dwelling unit is provided, the system shall comply with 708.4.



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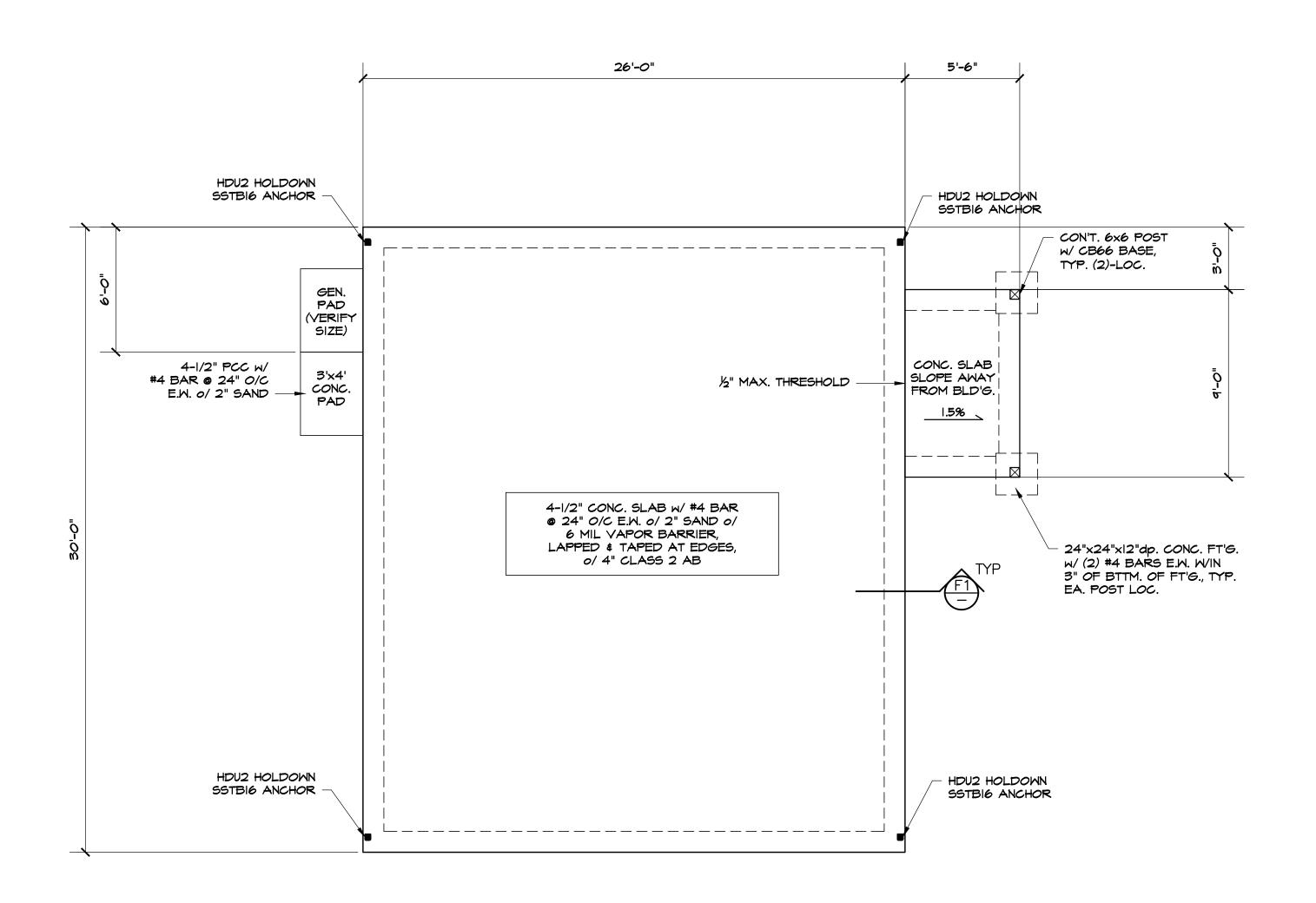
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TRINITY VALLEY CONSULTING ENGINEERS, IN





#### GENERAL HOLDOWN NOTES

I) INSTALL HD A.B.S PER MANUFACTURERS REQUIREMENTS.

2) HD A.B. SHALL BE 5" MIN. FROM CORNER OF CONC. FT'G.

3) MINIMUM CONCRETE COMPRESSIVE STRENGTH TO BE 2.5 KSI

#### FOUNDATION NOTES

- CONCRETE TO HAVE MIN. 2,500 PSI

- ALL WD., INCLUDING POSTS, WITHIN 6" OF GROUND TO BE P.T. OR FNDTN. GRADE REDWOOD

- HOLDOWNS SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.

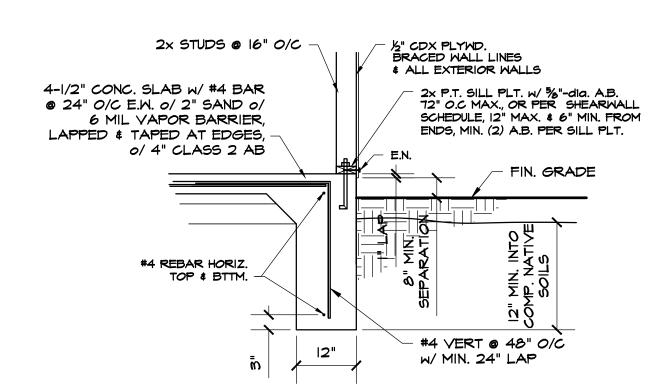
- ALL POINT LOAD FOOTINGS TO HAVE #4 REBAR @ 12" O/C EA. WAY AT 3" OFF BTTM. OF FT'G.

- REFER TO FLOOR PLAN FOR ANCHOR BOLT SPACING REQUIREMENTS AT SHEARWALLS AND HOLD-DOWN BOLT REQUIREMENTS.

- MIN. OF (2) 5/8"-dia. ANCHOR BOLTS W/ 7"-MIN. EMBEDMENT SHALL BE INSTALLED PER PLT. AND /OR BETWEEN SSTB BOLTS OF EACH SEGMENT OF SHEARWALL, MIN. 6" \$ MAX. 12" FROM ENDS, SPACED PER SHEARWALL SCHEDULE.

- ANCHOR BOLTS SHALL INCLUDE STEEL PLATE WASHERS, A MINIMUM OF 0.229"x3"x3" IN SIZE, BETWEEN SILL PLATE AND NUT.

- FASTENERS AND CONNECTORS (NAILS, ANCHOR BOLTS, ETC.) IN CONTACT WITH P.T. WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER.



SLAB FOUNDATION
FOOTING DETAIL
NTS



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PO BOX 1567
WILLOW CREEK, CA 95573
PHONE (530) 629–3000
FAX (530) 629–3011

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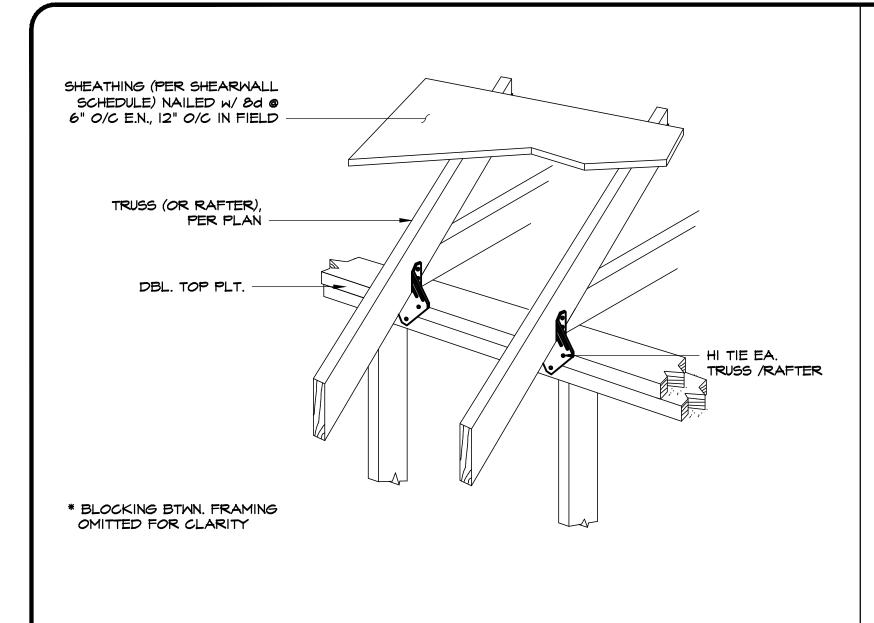
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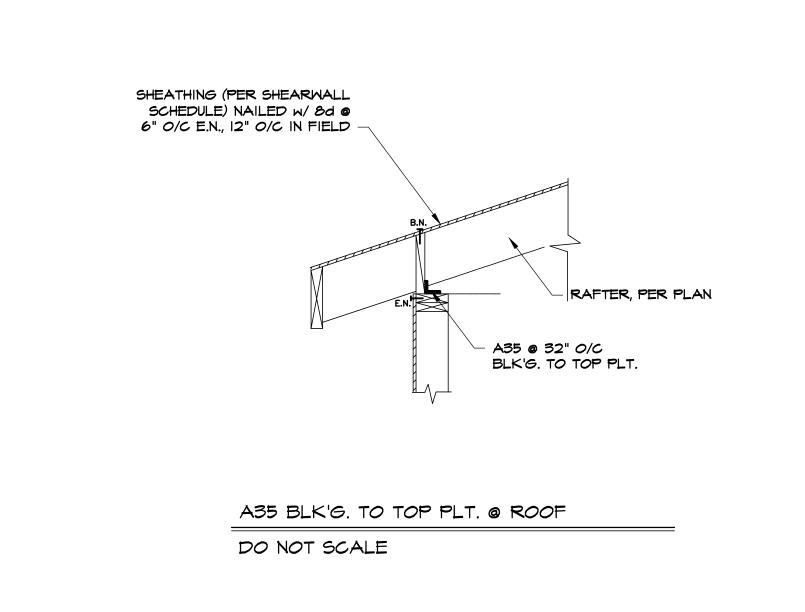
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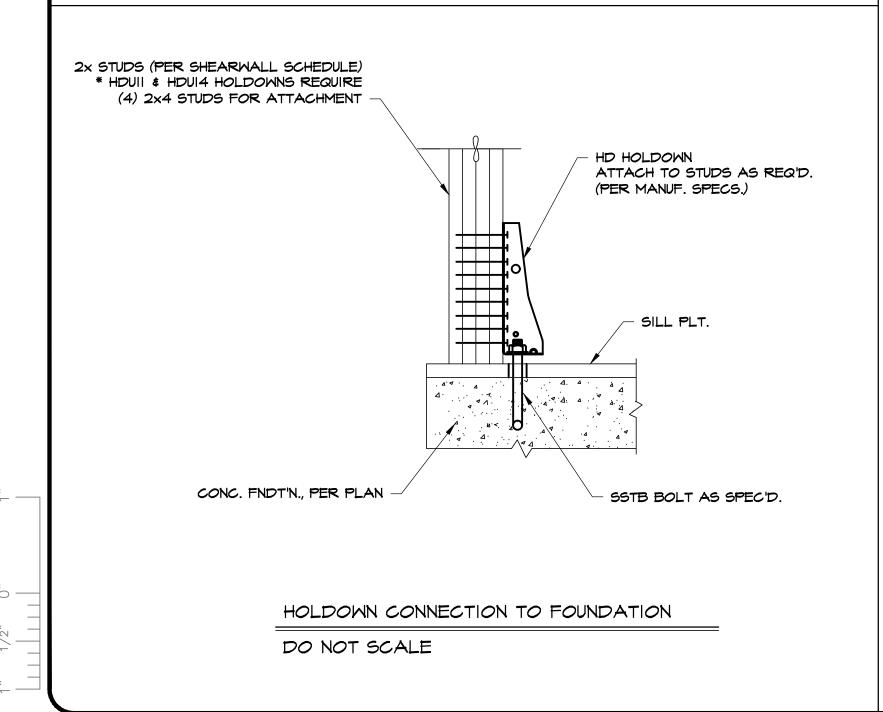
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ROOF CONNECTION TO WOOD TOP PLATE

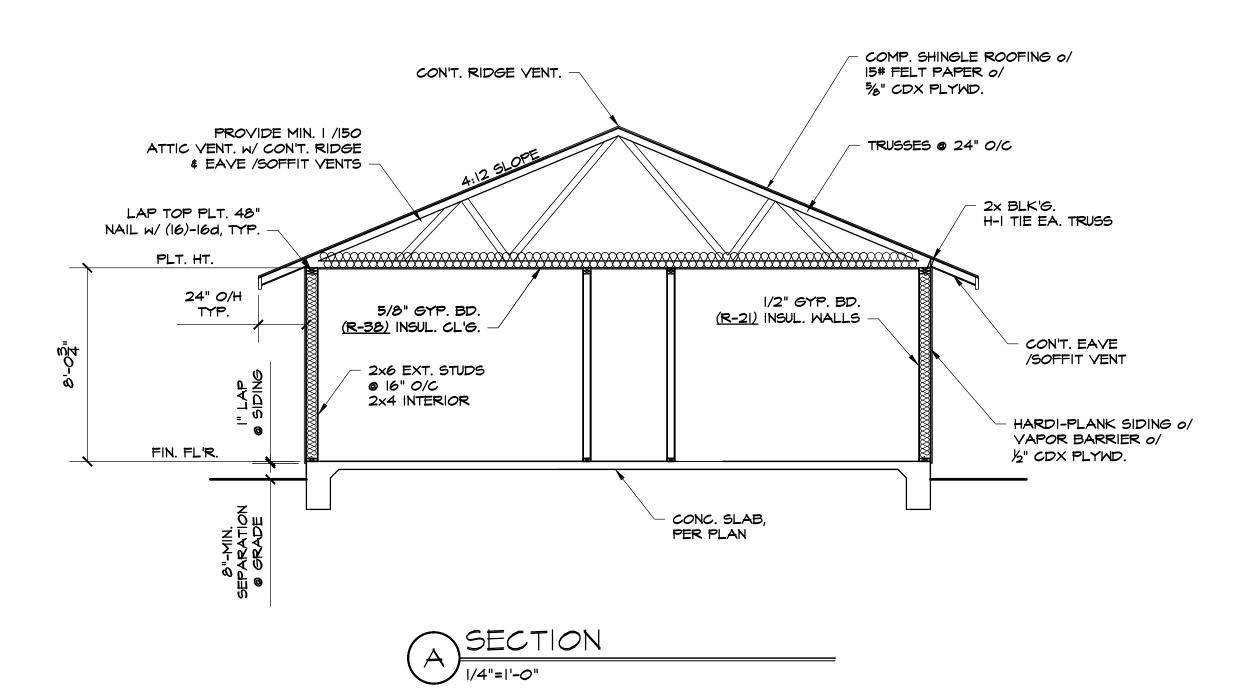
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\* NOTE \*

INSULATION FLAME SPREAD INDEX AND SMOKE DEVELOPED INDEX SHALL COMPLY WITH CRC R302.10.1 THRU R302.10.5.



#### STATE REGULATED WILD LAND FIRE STANDARDS

DEFENSIBLE SPACE MUST BE SIGNED OFF PRIOR TO SHEET ROCK INSPECTION.

EXTERIOR SIDING PRODUCTS, INCLUDING SHEATHING, TO BE OF APPROVED PRODUCTS (CAL-FIRE URBAN INTERFACE APPROVED).

EXTERIOR DOORS TO BE NON COMBUSTIBLE CONSTRUCTION, OR 1-%" SOLID CORE WOOD, OR 20-MIN. FIRE RATED.

WINDOWS SHALL HAVE MINIMUM ONE TEMPERED PANE (PER SRA STNDRDS.)

DECKING SURFACES TO BE APPROVED PRODUCT. [NON-IGNITIBLE, CAL-FIRE URBAN INTERFACE APPROVED]

NO. 72 VALLEY FLASH UNDERLAYMENT CAP SHEET RUNNING FULL LENGTH OF VALLEY UNLESS ROOF COVER IS INTERMOVEN.

EAVE AND SOFFIT VENTS MUST BE FIRE RATED TO PRECLUDE EMBER AND FLAME

ENTRANCE (CAL-FIRE URBAN INTERFACE APPROVED).

UNDERSIDES OF EAVES SHALL BE IGNITION RESISTANT OR NON-COMBUSTIBLE.

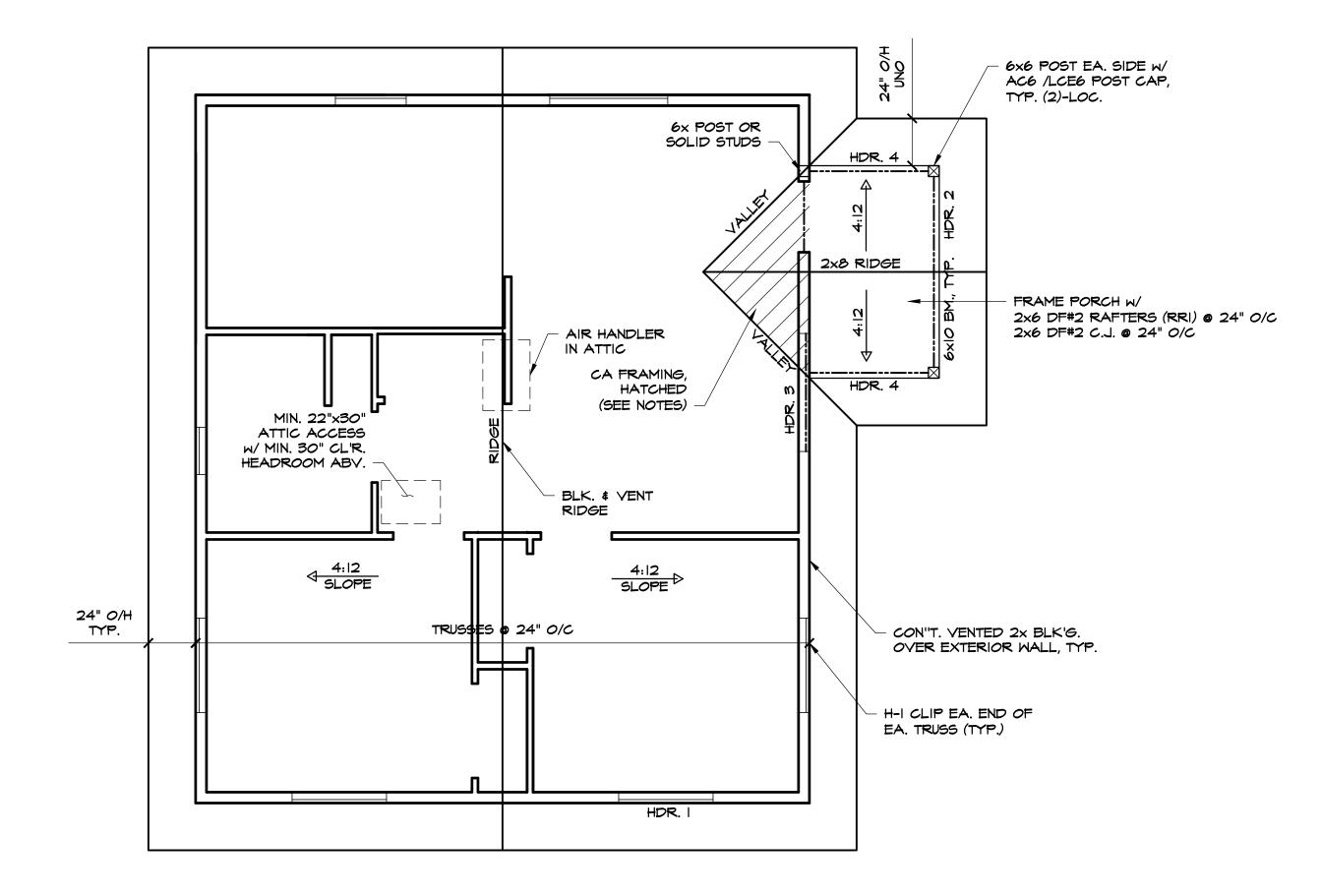
ROOF GUTTERS SHALL BE PROVIDED WITH A MEANS TO PREVENT THE ACCUMULATION OF LEAVES.



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\* SOLAR TO BE DESIGNED BY OTHERS; ROOF FRAMING TO ACCOUNT FOR ADDED DEADLOAD



#### FLOOR AND FRAMING NOTES

- 4x12 /6x10 DF#2 HDRS. @ ALL EXTERIOR OPENINGS, U.N.O.
- ALL EXPOSED FRAMING MEMBERS MUST BE P.T. OR REDWOOD.
- SUBFLOOR SHALL BE 3/4" T&G GLUED & NAILED TO JOISTS W/ IOd @ 6" B.N., I2" O/C F.N.
- ALL EXTERIOR HARDWARE AND FASTENERS SHALL BE HOT-DIPPED GA.
- SOLID BLOCK OVER ALL BEARING WALLS, BEAMS AND GIRDERS.
- -FIRE BLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, VERTICALLY AT FLOOR AND CEILING LEVELS, SOFFIT LEVELS AND HORIZONTALLY AT INTERVALS NOT TO EXCEED 10-FEET.

#### ROOF FRAMING NOTES

- PROVIDE H-I CLIP (OR EQUAL) @ EA. TRUSS OR RAFTER TO PLATE CONNECTION, UNO.

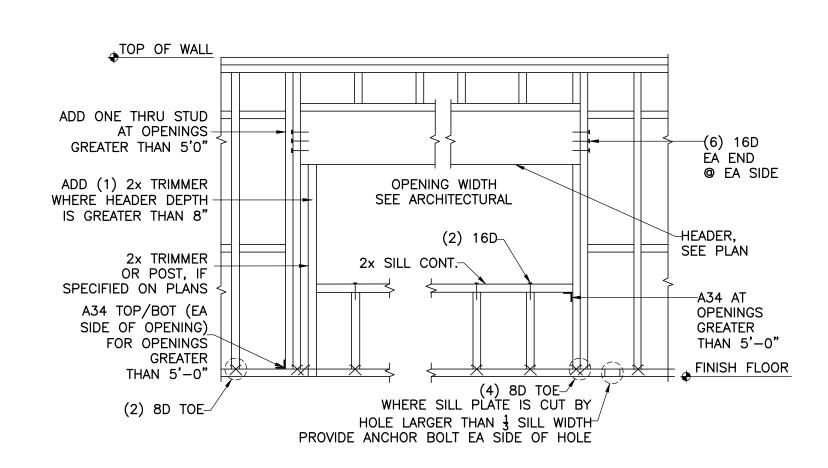
- ROOF SHEATHING SHALL BE %" CDX NAILED W/ 8d COMMONS @ 6" O/C AT PANEL EDGES OVER FRAMING, AND 12" O/C IN THE FIELD (PANEL EDGES UNBLOCKED).
- TOP PLATE SPLICE SHALL BE 48" MIN. OVERLAP AND SHALL BE NAILED W/ NO
- PROVIDE MIN. 1/150 ATTIC VENT. W/ CON'T. RIDGE & EAVE/ SOFFIT VENTS.
- CA FRAMING; PROVIDE 2x W/ FULL BEARING @ VALLEYS. FRAME W/ MIN. 2x6 @ 24" O/C UP TO IO' SPAN W/ 2x8 RIDGE. USE 2x8 JST. @ 24" O/C o/ IO' SPAN W/ 2x10 RIDGE. ROOF PLY MUST BE INSTALLED TO ROOF FRAMING BELOW PRIOR TO CA FRAMING.

LESS THAN (8) 16d FACE NAILS ON EACH SIDE OF THE SPLICE.

\* PROVIDE MIN. 22"x30" ACCESS TO ALL ENCLOSED ATTIC AREAS w/ MIN. 30"-CL'R. HEAD HT.

\* PORCH POSTS TO BE P.T. OR NATURALLY DURABLE LUMBER, OR DF, PRIMED AND PAINTED.

\*\* ALL POSTS TO BE AT A MINIMUM THE SAME WIDTH AS THE BEAM(S) BEING SUPPORTED, AND PROVIDE AT LEAST A 3-1/2" LONG "SEAT" FOR BM. BEING SUPPORTED



TYPICAL HEADER CONNECTION DETAIL

DO NOT SCALE

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WILLOW CREEK, CA 95573
PHONE (530) 629–3000
FAX (530) 629–3011

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#### 1136A.1 Receptacle Heights

Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located no more than 48 inches measured from the top of the receptacle outlet box nor less than 15 inches measured from the bottom of the receptacle outlet box to the level of the finished floor or working platform. If the reach is over a physical barrier or an obstruction (for example, a kitchen base cabinet), receptacles shall be located within the reach ranges specified in Section 1138A.3. Physical barriers and obstructions shall not extend more than 25 inches from the wall beneath the receptacle. Countertops shall be allowed to extend 251/2 inches from the wall beneath the receptacle.

Receptacle outlets that do not satisfy these specifications are acceptable provided that comparable receptacle outlets, that perform the same functions, are provided within the same area and are accessible.

#### 1136A.2 Switch and Control Heights

Controls or switches intended to be used by the occupant of the room or area to control lighting and receptacle outlets, appliances, alarms or cooling, heating and ventilating equipment shall be located no more than 48 inches measured from the top of the outlet box nor less than 15 inches measured from the bottom of the outlet box to the level of the finished floor or working platform. If the reach is over a physical barrier or an obstruction (for example, a kitchen base cabinet) switches and controls shall be located within the reach ranges specified in Section 1138A.3. Physical barriers or obstructions shall not extend more than 25 inches from the wall beneath a control or switch. Countertops shall be allowed to extend 25-1/2 inches from the wall beneath a control or switch.

Switches and controls that do not satisfy these specifications are acceptable provided that comparable controls or outlets, that perform the same functions, are provided within the same area and are accessible.

Exception: Appliances (e.g., kitchen stoves, dishwashers, range hoods, microwave ovens and similar appliances) which have controls located on the appliance.

#### \* GENERAL NOTES \*

All services supplying dwelling units shall be provided with a surge-protective device (SPD). The SPD shall be an integral part of the service equipment or shall be located immediately adjacent thereto. The SPD shall be a Type 1 or Type 2 SPD. CEC 230.67.

Barriers shall be placed in service equipment such that no uninsulated, ungrounded service busbar or service terminal is exposed to inadvertent contact by persons or maintenance equipment while servicing load terminations. CEC 230.62(C).

Doorbell buttons or controls, when installed, shall not exceed 48 inches above exterior floor or landing, measured from the top of the doorbell button assembly. Where doorbell buttons integrated with other features are required to be installed above 48 inches measured from the exterior floor or landing, a standard doorbell button or control shall also be provided at a height not exceeding 48 inches above exterior floor or landing, measured from the top of the doorbell button or control. R327.1.4.

#### \* MECHANICAL EXHAUST \*

MECHANICAL EXHAUST FOR BATHROOMS SHALL EXIT A MIN. OF 3' FROM ANY OPENING WHICH ALLOWS AIR ENTRY INTO OCCUPIED PORTIONS OF THE BUILDING PER CBC SEC. 1203.3

#### \* GROUNDING \*

PROVIDE CONCRETE-ENCASED GROUNDING ELECTRODE (UFER) PER CEC 250.50, 250.52 (a)

#### ELECTRICAL NOTES

- Service equipment and subpanels to have a min 30" wide by 36" deep clear work space.(CEC 110.26)

- All lighting is required to be high efficacy. (California energy code section 150. (k) and Table 150.0-A.)

· Provide a listed I inch raceway to accommodate a dedicated 208/240-volt circuit for future electrical vehicle (EV) charger. (Cal Green 4.106.4)

· All receptacle outlets are required to be listed tamper resistant (CEC 406.12 and 250.52)

- Combination type AFCI circuit breakers are required for all 120 volt single phase 15/20 amp branch circuits. Except for bathrooms, garages, and outdoors.

- All outlets, lights and switches in sleeping rooms shall be protected by arc-fault circuit interrupters.

- At a minimum, one dedicated 20 amp circuit is required for a bathroom. (CEC 210.11(0)(3))

- GFCI protection is required for all receptacle outlets located outdoors, garages, accessory buildings, bathrooms, crawl spaces, kitchens, laundry areas, kitchen dishwasher branch circuit, garbage disposal, all areas within 6 feet of a sink, and all receptacles within 6 feet of a bathtub or shower stall. (CEC 210.8)

· Receptacle outlets are not allowed within or over a bathtub or shower stall. (CEC 406.9 (C))

- Subpanels are not allowed to be located in bathrooms or clothes closets. (CEC 240.24 (D) and (E).

- Circuits sharing a grounded conductor (neutral) with two ungrounded (hot) conductors must use a two pole circuit breaker or an identified handle tie. (CEC 210.4(B)) Group noncable circuits in panel (CEC 210.4(D))

- The receptacle outlets that serve kitchen counter tops, dining room, breakfast area, and pantry, must have a min of 2 dedicated 20 amp circuits. (CEC 210.52

- Kitchen counter tops 12 inches or wider must have a receptacle outlet. (CEC 210.52(0))

· Kitchen counter tops must have receptacle outlets so no point along the counter walls is more than 24 inches from a receptacle. (CEC 210.52 (C))

- Island and peninsular counter tops must have at least one receptacle. (CEC 210.52(C)(1),(2),and (3))

· Appliances fastened in place, i.e.. dishwasher, microwave, etc. shall be supplied by a separate branch circuit rated for the appliance or load served. they shall not be on the two small-appliance circuits already required.

- The spacing for general receptacle outlets must be located so that no point on any wall, fixed glass, or cabinets is over 6 feet from a receptacle outlet. (CEC 210.52(A))

- Hallways 10 feet or more must have at least one receptacle outlet. (CEC

- Garages shall have at least one receptacle for each car space on the interior. The branch circuit supplying the receptacles shall not serve outlets outside of the garage. (CEC 210.52 (G) (1).

- Laundry rooms must have at least one dedicated 20 amp receptacle circuit. (CEC 210.11(C) (2)).

- All I5A and 20A, I25V receptacles installed in laundry areas of a dwelling unit must be GFCI protected.

- Provide 120V receptacle within 3 feet of water heater. (Cal Energy Code 150.0 (n) | A.)

- Smoke alarms shall be installed in the following locations (CRC R314.3, CBC 907.2.11.2, 907.2.11.3 \$ 907.2.11.4):

a. In each sleeping room. b. Outside each separate sleeping area in the immediate vicinity of the

c. On each additional story, including basements and habitable attics.

d. Not less than 3 feet horizontally from the door or opening of a bathroom

e. A minimum of 20 feet horizontally from any permanently installed cooking

contains a bathtub or shower.

f. Smoke alarms shall be hardwired with battery back-up and interconnected

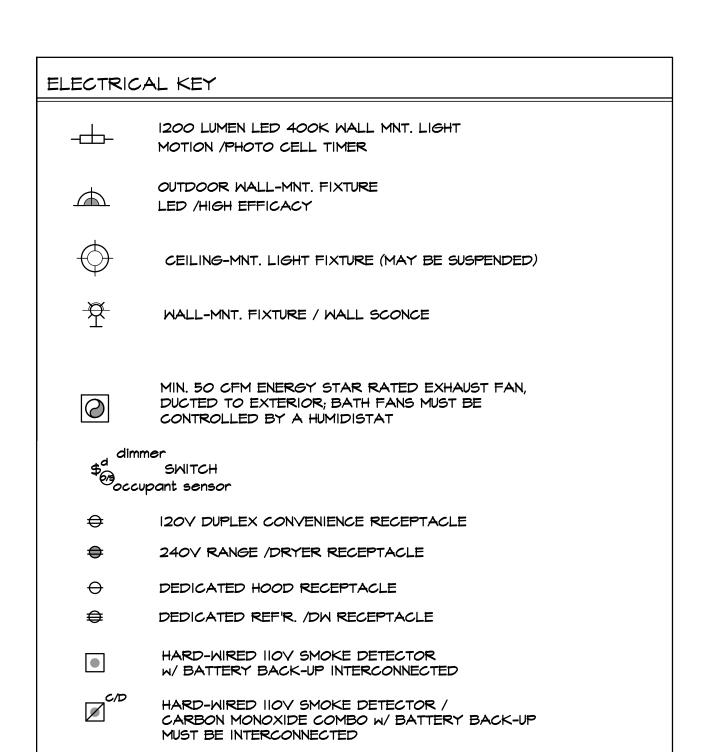
exempted in accordance with CRC R314.4 \$ R314.5 or CBC 907.2.11.5 \$

· Carbon monoxide alarms shall be installed in the following locations (CRC

a. Outside of each sleeping area in the immediate vicinity of the bedroom(s). b. On every level of the dwelling unit including basements. c. Where a fuel-burning appliance is located within a bedroom or its

bathroom, a carbon monoxide alarm shall be installed within the bedroom. Carbon monoxide alarms shall be hardwired with battery back-up and interconnected unless exempted in accordance with CRC R315.





#### **2022 Residential Lighting Summary**

#### Luminaire requirements

• All installed luminaires shall meet the requirements of Table 150.0-A. To be classed as high efficacy, a lamp must be one of the technologies listed below. Please refer to Section 150.0(k) for further information and explanation.

Automatically High Luminous Efficacy Luminaires	Lamps and Light Sources That Must be JA8-certified	Lamps and Light Sources That Must be JA8-Certified for Elevated Temperatures
<ul> <li>LED light sources installed outdoors</li> <li>Inseparable solid-state lighting (SSL) luminaires containing colored light sources for decorative lighting purpose</li> <li>Pin-based linear fluorescent or compact fluorescent light sources using electronic ballasts</li> <li>High intensity discharge (HID) light sources including pulse-start metal halide and high-pressure sodium light sources</li> <li>Luminaires with induction lamp and hardwired high frequency generator</li> <li>Ceiling fan light kits subject to federal appliance regulations</li> </ul>	<ul> <li>Light sources installed in ceiling recessed downlight luminaires. (Screw bases are not allowed in ceiling recessed downlight luminaires.)</li> <li>LED luminaires with integral sources</li> <li>Screw-based LED lamps (Alamps, PAR lamps, etc.)</li> <li>Pin-based LED lamps (MR-16, AR-111, etc.)</li> <li>Any light source or luminaire not listed elsewhere in this table</li> </ul>	<ul> <li>Lamps and separable light sources in ceiling recessed downlight luminaires.</li> <li>Lamps and separable light sources in enclosed luminaires.</li> </ul>

(2022 Residential Compliance Manual)

#### **EXCEPTIONS to Section 150.0(k)1A (Meeting Table 150.0-A)**

1. Integrated device lighting: Lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors and garage door openers . Navigation lighting such as night lights, step lights, and path lights less than 5 watts

3. Lighting internal to drawers, cabinetry and linen closets with an efficacy of 45 lumens per watt or greater

**Recessed Downlights Luminaires in Ceilings** 

 Shall not contain screw base lamp sockets; and • Have a label that certifies the luminaire is airtight with leakage less than 2 cfm at 75 Pascals. An exhaust fan housing with integral

light shall not be required to be certified airtight; and

 Be sealed with a gasket or caulk between the luminaire housing and ceiling; and Meet the clearance and installation requirements of Cal Electrical Code Section 410.116 for recessed luminaires

Light sources in enclosed or recessed luminaires

#### • Lamps and other separable light sources that are not compliant with JA8 elevated temp. requirements, shall not be installed in enclosed or recessed luminaires

**Indoor Lighting Control Requirements**  Readily accessible wall-mounted controls for manual ON and OFF • No controls shall bypass a dimmer, occupant sensor or vacancy sensor function

An Energy Management Control System (EMCS) or multiscene programmable control may be used to comply with dimming,

occupancy, and lighting control requirements • Automatic-off controls: in bathrooms, garages, laundry rooms, utility rooms, and walk in closets, at least one installed luminaire

shall be controlled by an occupancy/vacancy sensor for automatic shut-off • Dimming controls: Lighting in habitable spaces, including living rooms, dining rooms, kitchens, and bedrooms, shall have dimming

controls **EXCEPTIONS to Dimming Controls:** 

 Ceiling fans 2. Controlled lighting power less than 20 watts or controlled by an occupancy/vacancy sensor

· Permanently installed luminaires providing residential outdoor lighting shall be high efficacy and meet the following requirements, as applicable:

3. Navigation lighting such as night lights, step lights, path lights less than 5 watts, and lighting internal to drawers and cabinetry

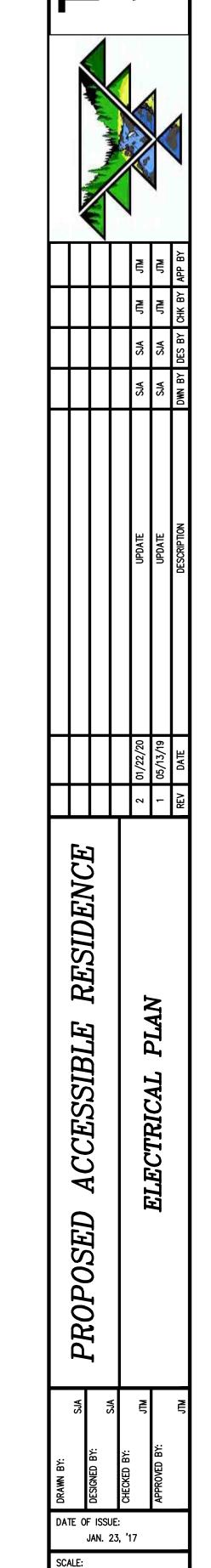
Controlled by a manual ON and OFF switch that does not override to ON the automatic actions of Items below;

Controlled by photocell and motion sensor. Controls that override to ON shall not be allowed unless the override automatically

reactivates the motion sensor within 6 hours;

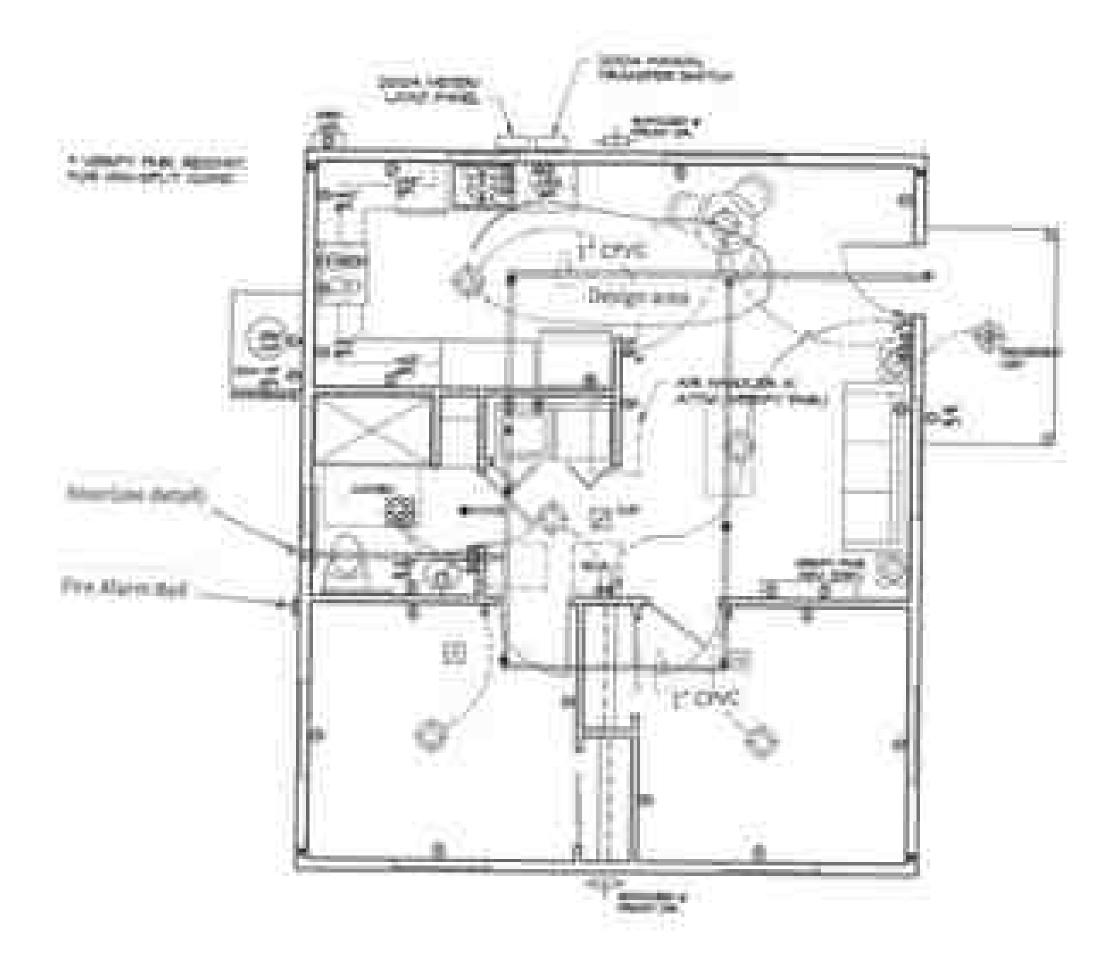
Controlled by an astronomical time clock. Controlled by an Energy management control system.

COURTESY OF ABBAY TECHNICAL SERVICES – BUILDING ENERGY CONSULTANTS



as noted

PROJECT NO:





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RESIDENCE

PROPOSED (2)-BDRM. RESIDENC FIRE SPRINKLER PLAN

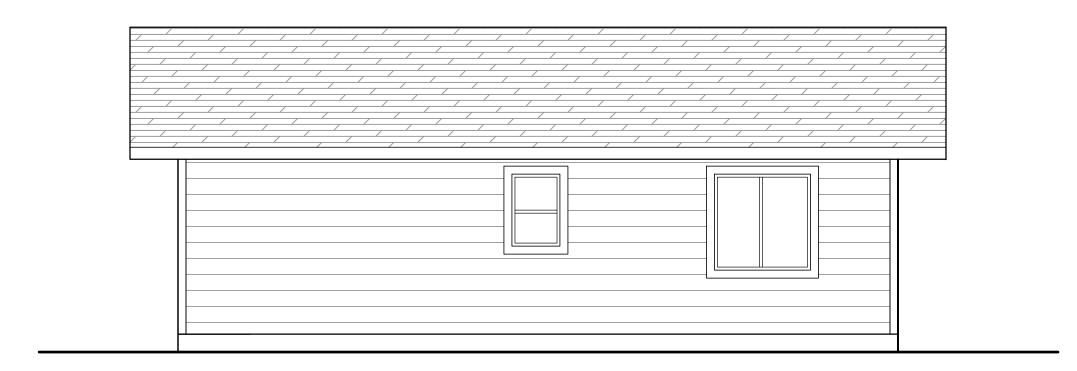
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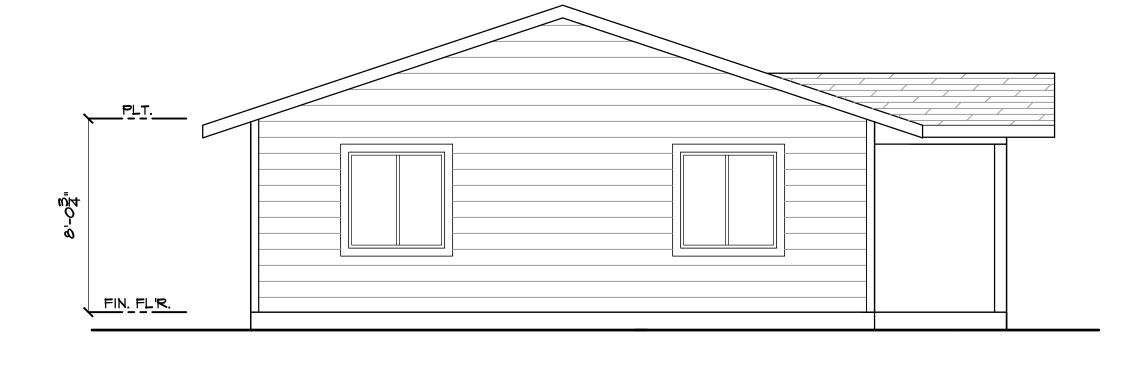


BUILDING SHALL COMPLY WITH 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA RESIDENTIAL CODE (CRC), 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA ELECTRICAL CODE (CEC), 2022 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE, 2022 CALIFORNIA FIRE CODE (CFC), 2022 GREEN BUILDING STANDARDS CODES, AND ALL APPLICABLE CODES.



MEST ELEVATION

1/4"=1'-0"



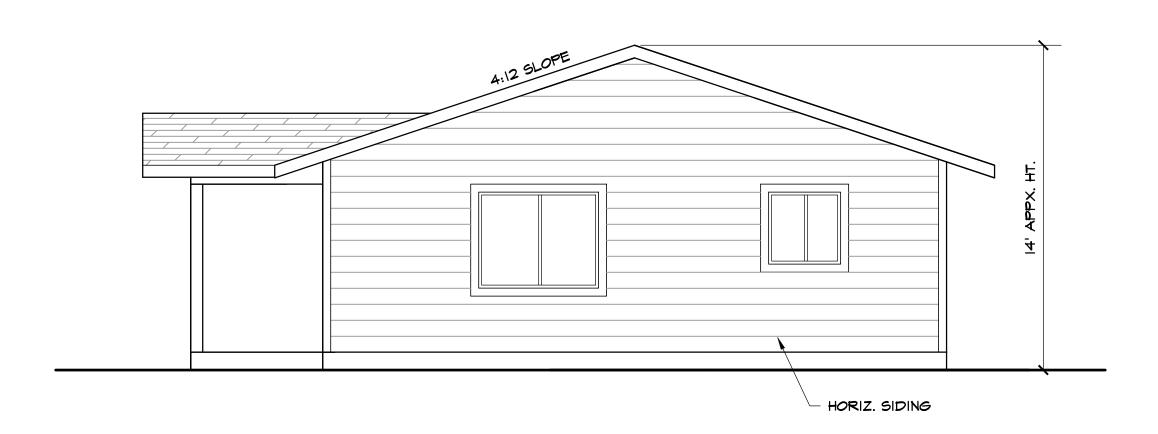
SOUTH ELEVATION

1/4"=1'-0"



EAST ELEVATION

1/4"=1'-0"



NORTH ELEVATION

1/4"=1'-0"



RESIDENCE BDRM. PROPOSED DATE OF ISSUE: JAN. 23, '17 AS NOTED

0,,

PROJECT NO:



	DOC	OR SCHEDULE
$\ominus$	3'-0"×6'-8"	SOLID CORE WD. W/ 1/2-GLZ'G.
<b>②</b>	2'-6"×6'-8"	INTERIOR RAISED PANEL
(E)	2'-0"x6'-8" pair	INTERIOR BYPASS RAISED PANEL
4	2'-8"×6'-8"	INTERIOR BIFOLD FULLY LOUVERED (COMBUSTION AIR
(F)	2'-10"x6'-8"	INTERIOR (32"-MIN. CL'R.) RAISED PANEL

SEE FLOOR PLAN FOR SWING DIRECTION & NECC. HARDWARE

EXTERIOR DOORS TO BE NON COMBUSTIBLE CONSTRUCTION, OR 1-3/8" SOLID CORE WOOD, OR 20-MIN. FIRE RATED.

	MIND	POW SCHEDULE
$\bigcirc$	3'-0"x3'-0"	HORIZONTAL SLIDER
B	5'-0"×4'-0"	HORIZONTAL SLIDER EGRESS WHERE NOTED
(V)	2'-0"x3'-0"	SINGLE HUNG OBSCURED TEMP. GLZ'G.

ALL WINDOWS SHALL BE DUAL GLAZED AND VINYL FRAMED FULLY TEMPERED GLAZING, WHERE NOTED ON FLOOR PLAN

SEE ENERGY COMPLIANCE DOCS FOR MIN. U-FACTOR, SHGC

WINDOWS SHALL HAVE MINIMUM ONE TEMPERED PANE (PER SRA STNDRDS.)

-- WATER HEATER --

PROVIDE WATER HEATER TEMPERATURE /PRESSURE RELIEF VALVE WITH DRAIN TO EXTERIOR OF BUILDING WITH 90-ELBOW MIN. 6" AND MAX. 24" FROM FINISHED GRADE

TANKLESS WATER HEATER SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF IT'S LISTING AND IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.

-- SHOWERS /TUB-SHOWERS --

SHOWERS AND TUB-SHOWER COMBINATIONS WITH CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING VALVE TYPE: INSTALLER SHALL ADJUST PER MANUFACTURER INSTRUCTIONS TO DELIVER A MAX. MIXED WATER SETTING OF 120-DEGRESS FAHRENHEIT.

-- HOSE BIBS

PROVIDE NON-REMOVABLE BACKFLOW PREVENTION DEVICES ON ALL HOSE BIBS.

-- CLOTHES DRYER --

CLOTHES DRYER(S) SHALL VENT TO EXTERIOR OF BUILDING. VENT LENGTH SHALL BE A MAXIMUM OF 14', OR HAVE AN APPROVED BOOSTER FAN.

MAKE UP AIR SHALL BE PROVIDED FOR TYPE I CLOTHES DRYERS IN ACCORDANCE WITH MANUF. SPECS.

504.4.2 Domestic Clothes Dryers

Where a compartment or space for a Type I clothes dryer is provided, not less than a 4 inch diameter (102 mm) exhaust duct of approved material shall be installed in accordance with Section 504.0.

Type I clothes dryer exhaust ducts shall be of rigid metal and shall have smooth interior surfaces. The diameter shall be not less than 4 inches nominal (100 mm) and the thickness shall be not less than 0.016 of an inch (0.406 mm).

504.4.2.1 Length Limitation

Unless otherwise permitted or required by the dryer manufacturer's instructions and approved by the Authority Having Jurisdiction, domestic dryer moisture exhaust ducts shall not exceed a total combined horizontal and vertical length of 14 feet (4267 mm), including two 90 degree (1.57 rad) elbows. A length of 2 feet (610 mm) shall be deducted for each 90 degree (1.57 rad) elbow in excess of two.

SHEARWALL	SCHEDILE
/ ' - / \ \ \ \ / \ \	

MALL LINE	STORY	SHEATHING	FRAMING	8d NAILING	ANCHOR BOLTS	CONNECTIONS
1–1	1	7/16" CD PLY.	2×6 @  6" 0/C	6" EDGE /I2" FIELD	5/8"x 0" @ 48" 0/C	HDU2 HOLDOWN
2-1	I	7/16" CD PLY.	2x6 @  6" O/C	6" EDGE /I2" FIELD	5/8"x 0" @ 48" 0/C	HDU2 HOLDOWN
A-I	I	7/16" CD PLY.	2x6 @  6" O/C	6" EDGE /I2" FIELD	5/8"x 0" @ 48" 0/C	
B-I	I	7/16" CD PLY.	2x6 @  6" O/C	6" EDGE /I2" FIELD	5/8"x 0" @ 48" 0/C	

#### SHEAR NOTES

I. INSTALL I/2" CDX W/ 8d @ 6" O/C B.N., I2" O/C IN FIELD, ON ALL SHEETABLE EXTERIOR WALL SURFACES, UNLESS NOTED OTHERWISE ON SHEAR PLAN.

2. DBL. 2x STUDS ATTACHED TO HOLDOWNS SHALL BE SISTERED TOGETHER W/ (2)-16d @ 12" O/C.

STATE REGULATED WILD LAND FIRE STANDARDS

DEFENSIBLE SPACE MUST BE SIGNED OFF PRIOR TO SHEET ROCK INSPECTION.

EXTERIOR SIDING PRODUCTS, INCLUDING SHEATHING, TO BE OF APPROVED PRODUCTS (CAL-FIRE URBAN INTERFACE APPROVED).

EXTERIOR DOORS TO BE NON COMBUSTIBLE CONSTRUCTION, OR 1-3/8" SOLID CORE WOOD, OR 20-MIN. FIRE RATED.

WINDOWS SHALL HAVE MINIMUM ONE TEMPERED PANE (PER SRA STNDRDS.)

DECKING SURFACES TO BE APPROVED PRODUCT. [NON-IGNITIBLE, CAL-FIRE URBAN INTERFACE APPROVED]

UNLESS ROOF COVER IS INTERWOVEN.

NO. 72 VALLEY FLASH UNDERLAYMENT CAP SHEET RUNNING FULL LENGTH OF VALLEY

EAVE AND SOFFIT VENTS MUST BE FIRE RATED TO PRECLUDE EMBER AND FLAME ENTRANCE (CAL-FIRE URBAN INTERFACE APPROVED).

UNDERSIDES OF EAVES SHALL BE IGNITION RESISTANT OR NON-COMBUSTIBLE.

ROOF GUTTERS SHALL BE PROVIDED WITH A MEANS TO PREVENT THE ACCUMULATION

#### AGING IN PLACE REQUIREMENTS

OF LEAVES.

I. At least one bathroom on the entry level shall be provided with reinforcement for a future grab bar. Where there is no bathroom on the entry level, at least one bathroom on the second or third floor of the dwelling shall provide reinforcement. Please indicate location of grab bar reinforcement on plans. R327.I.I.

2. Reinforcement shall not be less than 2 by 8 inch (51 mm by 203 mm) nominal lumber [1 1/2 inch by 7 1/4 inch (38 mm by 184 mm) actual dimension] or other construction material providing equal height and load capacity. Reinforcement shall be located between 32 inches (812.8 mm) and 39 1/4 inches (997 mm) above the finished floor flush with the wall framing. R327.1.1(2).

3. Water closet reinforcement shall be installed on both side walls of the fixture, or one side wall and the back wall. Please show on plans. R327.1.1(3).

4. Shower reinforcement shall be continuous where wall framing is provided. R327.1.1(4).

5. 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 (152.4 mm) above the bathtub rim. R327.1.1(5).

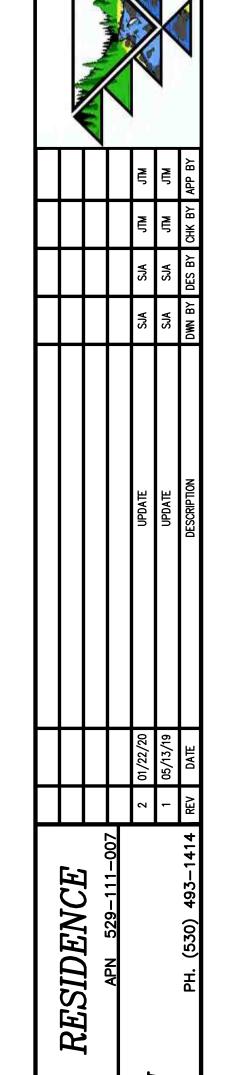
6. Electrical receptacle outlets, switches, and controls (including controls for heating, ventilation, and air conditioning) intended to be used by occupants shall be located no more than 48 inches (1219.2 mm) measured from the top of the outlet box and not less than 15 inches (381 mm) measured from the bottom of the outlet box above the finish floor. R327.1.2.

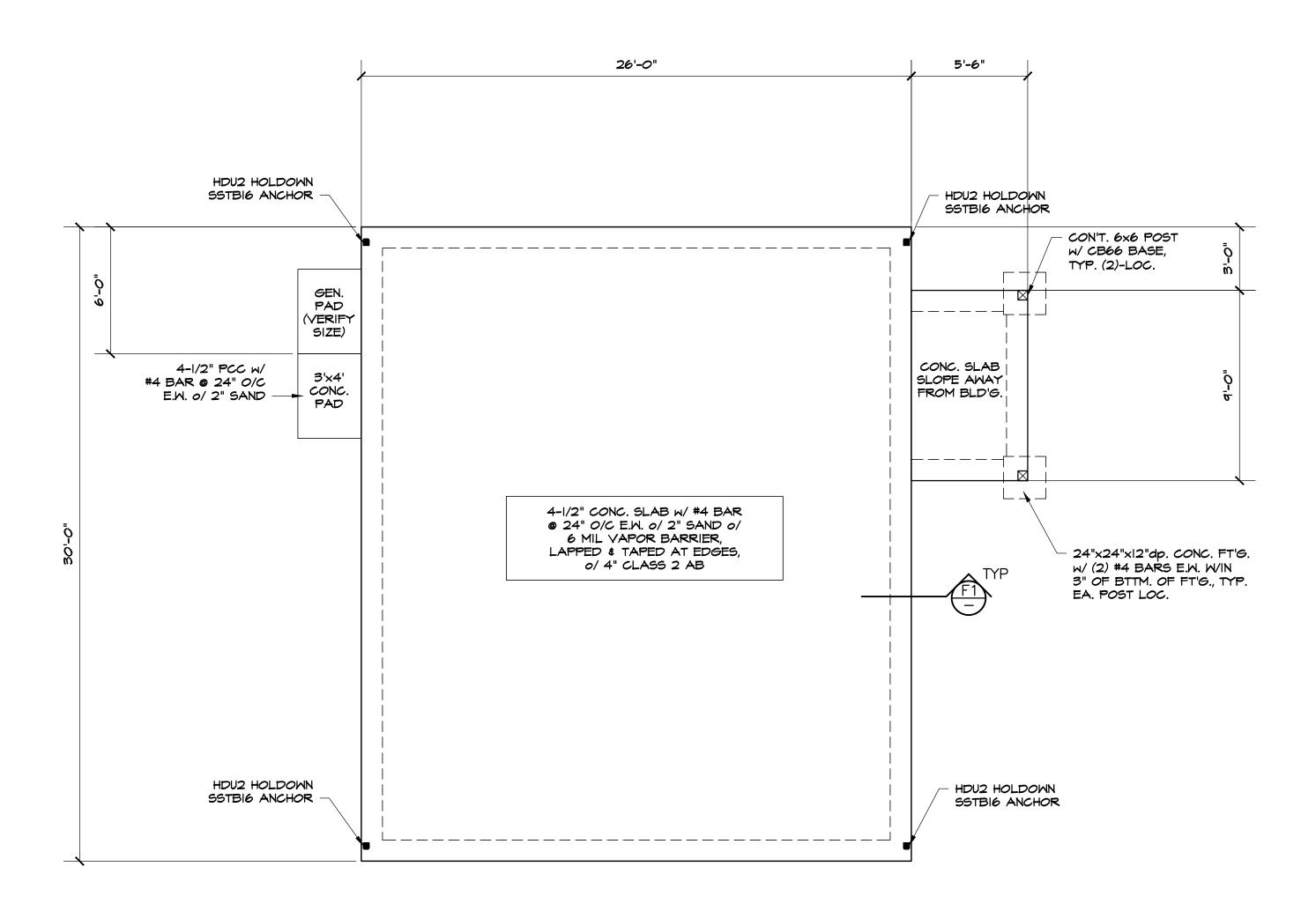
7. At least one bathroom and one bedroom on the entry level shall provide a doorway with a net clear opening of not less than 32 inches (812.8 mm), measured with the door positioned at an angle of 90 degrees from the closed position; or, in the case of a two-or three-story single family dwelling, on the second or third floor of the dwelling if a bathroom or bedroom is not located on the entry level. R327.1.3.

8. Doorbell buttons or controls, when installed, shall not exceed 48 inches (1219.2 mm) above exterior floor or landing, measured from the top of the doorbell button assembly. Where doorbell buttons integrated with other features are required to be installed above 48 inches (1219.2 mm) measured from the exterior floor or landing, a standard doorbell button or control shall also be provided at a height not exceeding 48 inches (1219.2 mm) above exterior floor or landing,



67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
PHONE (530) 629–3000
FAX (530) 629–3011





#### GENERAL HOLDOWN NOTES

I) INSTALL HD A.B.S PER MANUFACTURERS REQUIREMENTS.

2) HD A.B. SHALL BE 5" MIN. FROM CORNER OF CONC. FT'G.

3) MINIMUM CONCRETE COMPRESSIVE STRENGTH TO BE 2.5 KSI

#### FOUNDATION NOTES

- CONCRETE TO HAVE MIN. 2,500 PSI

- ALL WD., INCLUDING POSTS, WITHIN 6" OF GROUND TO BE P.T. OR FNDTN. GRADE REDWOOD

- HOLDOWNS SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.

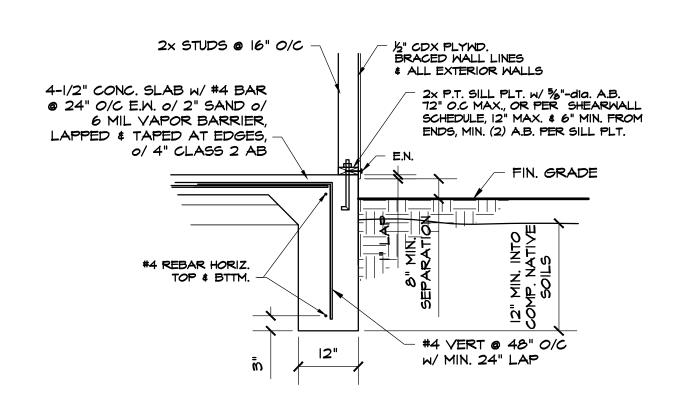
- ALL POINT LOAD FOOTINGS TO HAVE #4 REBAR @ 12" O/C EA. WAY AT 3" OFF BTTM. OF FT'G.

- REFER TO FLOOR PLAN FOR ANCHOR BOLT SPACING REQUIREMENTS AT SHEARWALLS AND HOLD-DOWN BOLT REQUIREMENTS.

- MIN. OF (2) 5/8"-dia. ANCHOR BOLTS W/ 7"-MIN. EMBEDMENT SHALL BE INSTALLED PER PLT. AND /OR BETWEEN SSTB BOLTS OF EACH SEGMENT OF SHEARWALL, MIN. 6" \$ MAX. 12" FROM ENDS, SPACED PER SHEARWALL SCHEDULE.

- ANCHOR BOLTS SHALL INCLUDE STEEL PLATE WASHERS, A MINIMUM OF 0.229"x3"x3" IN SIZE, BETWEEN SILL PLATE AND NUT.

- FASTENERS AND CONNECTORS (NAILS, ANCHOR BOLTS, ETC.) IN CONTACT WITH P.T. WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER.



SLAB FOUNDATION
FOOTING DETAIL
NTS





67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
PHONE (530) 629–3000
FAX (530) 629–3011

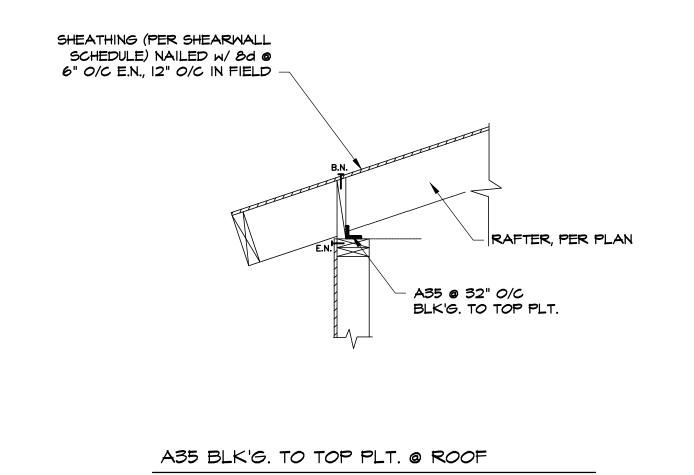
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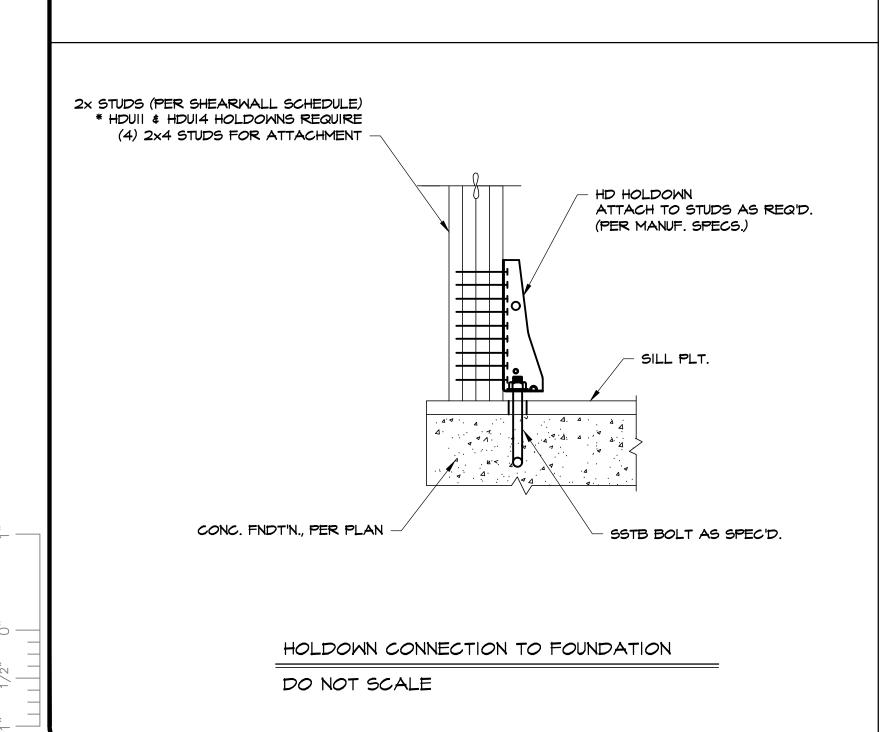
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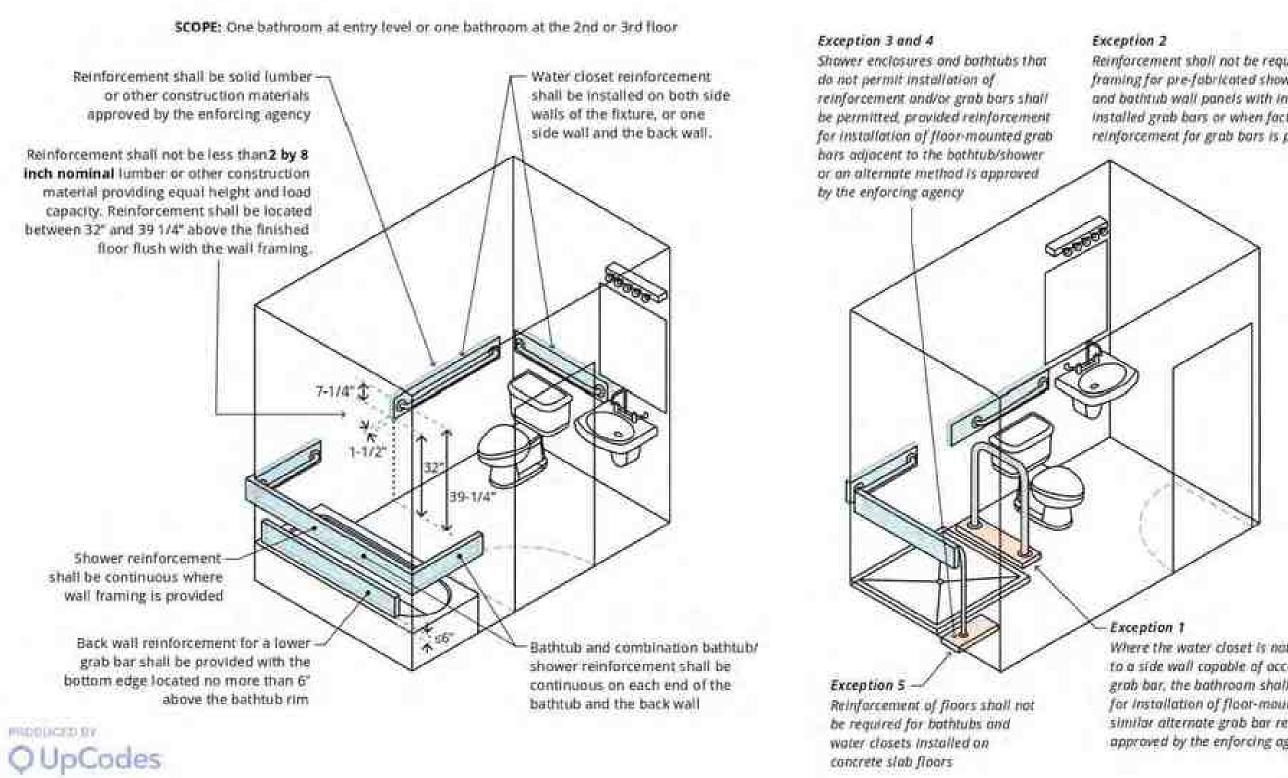
PROJECT NO:





DO NOT SCALE





INSULATION FLAME SPREAD INDEX AND SMOKE DEVELOPED INDEX

SHALL COMPLY WITH CRC R302.10.1 THRU R302.10.5.

Reinforcement shall not be required in wall framing for pre-fabricated shower enclosures and bathtub wall panels with integral factoryinstalled grab bars or when factory-installed reinforcement for grab bars is provided

> 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, foldoway or similar alternate grab bar reinforcements approved by the enforcing agency

#### R327.1.1 Reinforcement for Grab Bars

At least one bathroom on the entry level shall be provided with reinforcement installed in accordance with this section. Where there is no bathroom on the entry level, at least one bathroom on the second or third floor of the dwelling shall comply with this section. Reinforcement shall be solid lumber or other construction materials approved by the enforcing

agency.
Reinforcement shall not be less than 2 by 8 inch nominal lumber. [1-1/2 inch by 7-1/4 inch actual dimension] or other construction material providing equal height and load capacity. Reinforcement shall be located between 32 inches and 39-1/4 inches above the finished floor flush with the wall

Water closet reinforcement shall be installed on both side walls of the fixture, or one side wall and the back wall.

Shower reinforcement shall be continuous where wall framing is provided. 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.

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 enforcing agency.

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. 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.

DEFENSIBLE SPACE MUST BE SIGNED OFF PRIOR TO SHEET ROCK INSPECTION.

EXTERIOR SIDING PRODUCTS, INCLUDING SHEATHING, TO BE OF APPROVED PRODUCTS (CAL-FIRE URBAN INTERFACE APPROVED).

STATE REGULATED WILD LAND FIRE STANDARDS

EXTERIOR DOORS TO BE NON COMBUSTIBLE CONSTRUCTION, OR 1-3/8" SOLID CORE WOOD, OR 20-MIN. FIRE RATED.

WINDOWS SHALL HAVE MINIMUM ONE TEMPERED PANE (PER SRA STNDRDS.)

DECKING SURFACES TO BE APPROVED PRODUCT. [NON-IGNITIBLE, CAL-FIRE URBAN INTERFACE APPROVED]

NO. 72 VALLEY FLASH UNDERLAYMENT CAP SHEET RUNNING FULL LENGTH OF VALLEY UNLESS ROOF COVER IS INTERWOVEN.

EAVE AND SOFFIT VENTS MUST BE FIRE RATED TO PRECLUDE EMBER AND FLAME ENTRANCE (CAL-FIRE URBAN INTERFACE APPROVED).

UNDERSIDES OF EAVES SHALL BE IGNITION RESISTANT OR NON-COMBUSTIBLE.

ROOF GUTTERS SHALL BE PROVIDED WITH A MEANS TO PREVENT THE ACCUMULATION

COMP. SHINGLE ROOFING o/ 15# FELT PAPER o/ CON'T. RIDGE VENT. 1/2" CDX PLYMD. PROVIDE MIN. 1 /150 TRUSSES @ 24" 0/C ATTIC VENT. W/ CON'T. RIDGE # EAVE /SOFFIT VENTS LAP TOP PLT. 48" H-I TIE EA. TRUSS NAIL W/ (16)-16d, TYP. PLT. HT. 1/2" GYP. BD. 5/8" GYP. BD. (R-21) INSUL. WALLS (R-38) INSUL. CL'G. CON'T. EAVE /SOFFIT VENT 2x6 EXT. STUDS @ 16" O/C 2x4 INTERIOR HARDI-PLANK SIDING o/ VAPOR BARRIER o/ FIN. FL'R. ½" CDX PLYWD. CONC. SLAB, PER PLAN

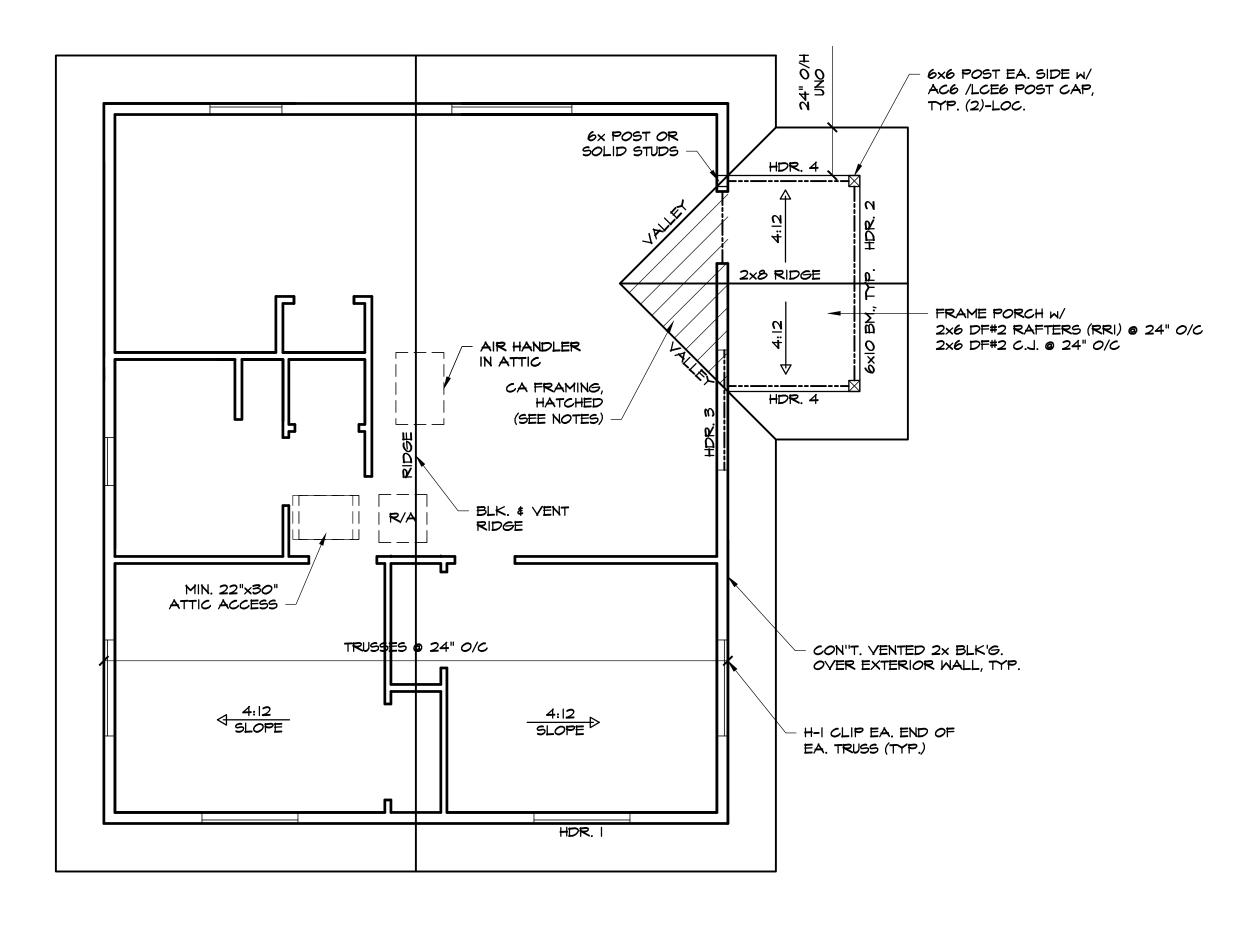




**PROPOSE**. DATE OF ISSUE: JAN. 23, '17 SCALE: as noted

TRINITY VALLEY CONSULTING ENGINEERS, INC

PROJECT NO:





\* SOLAR TO BE DESIGNED BY OTHERS; ROOF FRAMING TO ACCOUNT FOR ADDED DEADLOAD

#### FLOOR AND FRAMING NOTES

- 4x12 /6x10 DF#2 HDRS. @ ALL EXTERIOR OPENINGS, U.N.O.
- ALL EXPOSED FRAMING MEMBERS MUST BE P.T. OR REDWOOD.
- SUBFLOOR SHALL BE 3/4" T&G GLUED & NAILED TO JOISTS W/ IOd @ 6" B.N., I2" O/C F.N.
- ALL EXTERIOR HARDWARE AND FASTENERS SHALL BE HOT-DIPPED GA.
- SOLID BLOCK OVER ALL BEARING WALLS, BEAMS AND GIRDERS.
- -FIRE BLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, VERTICALLY AT FLOOR AND CEILING LEVELS, SOFFIT LEVELS AND HORIZONTALLY AT INTERVALS NOT TO EXCEED 10-FEET.

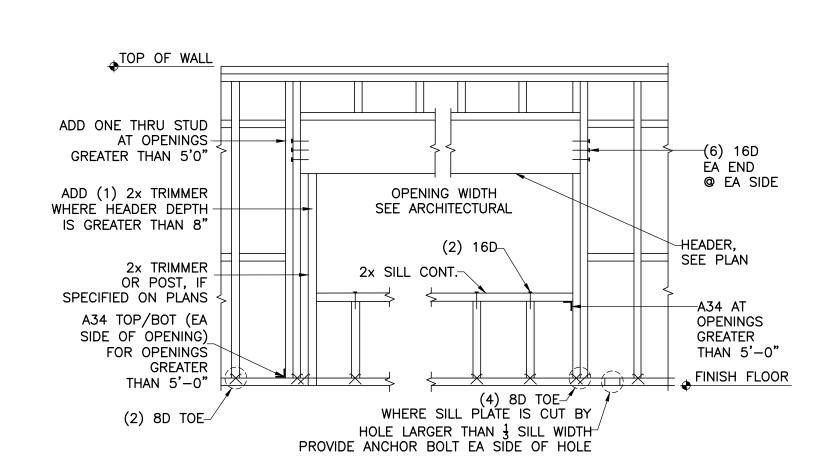
#### ROOF FRAMING NOTES

- PROVIDE H-I CLIP (OR EQUAL) @ EA. TRUSS TO PLATE CONNECTION, UNO.
   ROOF SHEATHING SHALL BE 1/2" CDX NAILED W/ 8d COMMONS @ 6" O/C AT
- PANEL EDGES OVER FRAMING, AND 12" O/C IN THE FIELD (PANEL EDGES UNBLOCKED).
- TOP PLATE SPLICE SHALL BE 48" MIN. OVERLAP AND SHALL BE NAILED W/ NO LESS THAN (8) 16d FACE NAILS ON EACH SIDE OF THE SPLICE.
- PROVIDE MIN. 1/150 ATTIC VENT. W/ CON'T. RIDGE & EAVE/ SOFFIT VENTS.
- CA FRAMING; PROVIDE 2x W/ FULL BEARING @ VALLEYS. FRAME W/ MIN. 2x6 @ 24" O/C UP TO IO' SPAN W/ 2x8 RIDGE. USE 2x8 JST. @ 24" O/C o/ IO' SPAN W/ 2xIO RIDGE. ROOF PLY MUST BE INSTALLED TO ROOF FRAMING BELOW PRIOR TO CA FRAMING.

\* PROVIDE MIN. 22"x30" ACCESS TO ALL ENCLOSED ATTIC AREAS W/ MIN. 30"-CL'R. HEAD HT.

\* PORCH POSTS TO BE P.T. OR NATURALLY DURABLE LUMBER, OR DF, PRIMED AND PAINTED.

\*\* ALL POSTS TO BE AT A MINIMUM THE SAME WIDTH AS THE BEAM(S) BEING SUPPORTED, AND PROVIDE AT LEAST A 3-1/2" LONG "SEAT" FOR BM. BEING SUPPORTED







67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
PHONE (530) 629–3011
FAX (530) 629–3011

RESIDENCE BDRM. PROPOSED

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DRAWING NO:

DATE OF ISSUE:

PROJECT NO:

SCALE:

JAN. 23, '17

as noted

All services supplying dwelling units shall be provided with a surge-protective device (SPD). The SPD shall be an integral part of the service equipment or shall be located immediately adjacent thereto. The SPD shall be a Type 1 or Type 2 SPD. CEC 230.67.

Barriers shall be placed in service equipment such that no uninsulated, ungrounded service busbar or service terminal is exposed to inadvertent contact by persons or maintenance equipment while servicing load terminations. CEC 230.62(C).

Electrical receptacle outlets, switches, and controls (including controls for heating, ventilation, and air conditioning) intended to be used by occupants shall be located no more than 48 inches measured from the top of the outlet box and not less than 15 inches measured from the bottom of the outlet box above the finish floor.

Doorbell buttons or controls, when installed, shall not exceed 48 inches above exterior floor or landing, measured from the top of the doorbell button assembly. Where doorbell buttons integrated with other features are required to be installed above 45 inches measured from the exterior floor or landing, a standard doorbell button or control shall also be provided at a height not exceeding 48 inches above exterior floor or landing, measured from the top of the doorbell button or control. R327.1.4.

\* MECHANICAL EXHAUST \* MECHANICAL EXHAUST FOR BATHROOMS SHALL EXIT A MIN. OF 3' FROM ANY OPENING WHICH ALLOWS AIR ENTRY INTO OCCUPIED PORTIONS OF THE BUILDING PER CBC SEC. 1203.3

\* GROUNDING \*

PROVIDE CONCRETE-ENCASED GROUNDING ELECTRODE (UFER) PER CEC 250.50, 250.52 (a)

200A MANUAL TRANSFER SWITCH 200A METER/ LOAD PANEL SWITCHED & \* VERIFY PWR. REQ'MNT. FOR MINI-SPLIT /COND. HOOD RECESSED AIR HANDLÉR IN ATTIC (VERIFY PWR.)



#### ELECTRICAL NOTES

- Service equipment and subpanels to have a min 30" wide by 36" deep clear work space.(CEC 110.26)

- All lighting is required to be high efficacy. (California energy code section 150. (k) and Table 150.0-A.)

· Provide a listed I inch raceway to accommodate a dedicated 208/240-volt circuit for future electrical vehicle (EV) charger. (Cal Green 4.106.4)

- All receptacle outlets are required to be listed tamper resistant (CEC 406.12 and 250.52)

- Combination type AFCI circuit breakers are required for all 120 volt single phase 15/20 amp branch circuits. Except for bathrooms, garages, and outdoors.

- All outlets, lights and switches in sleeping rooms shall be protected by arc-fault circuit interrupters.

- At a minimum, one dedicated 20 amp circuit is required for a bathroom. (CEC 210.11(0)(3))

- GFCI protection is required for all receptacle outlets located outdoors, garages, accessory buildings, bathrooms, crawl spaces, kitchens, laundry areas, Kitchen dishwasher branch circuit, garbage disposal, all areas within 6 feet of a sink, and all receptacles within 6 feet of a bathtub or shower stall. (CEC 210.8)

· Receptacle outlets are not allowed within or over a bathtub or shower stall. (CEC 406.9 (C))

- Subpanels are not allowed to be located in bathrooms or clothes closets. (CEC 240.24 (D) and (E).

- Circuits sharing a grounded conductor (neutral) with two ungrounded (hot) conductors must use a two pole circuit breaker or an identified handle tie. (CEC 210.4(B)) Group noncable circuits in panel (CEC 210.4(D))

- The receptacle outlets that serve kitchen counter tops, dining room, breakfast area, and pantry, must have a min of 2 dedicated 20 amp circuits. (CEC 210.52

- Kitchen counter tops 12 inches or wider must have a receptacle outlet. (CEC 210.52(0))

· Kitchen counter tops must have receptacle outlets so no point along the counter walls is more than 24 inches from a receptacle. (CEC 210.52 (C))

- Island and peninsular counter tops must have at least one receptacle. (CEC 210.52(C)(1),(2),and (3))

· Appliances fastened in place, i.e.. dishwasher, microwave, etc. shall be supplied by a separate branch circuit rated for the appliance or load served. they shall

not be on the two small-appliance circuits already required. - The spacing for general receptacle outlets must be located so that no point

(CEC 210.52(A)) - Hallways 10 feet or more must have at least one receptacle outlet. (CEC

on any wall, fixed glass, or cabinets is over 6 feet from a receptacle outlet.

- Garages shall have at least one receptacle for each car space on the

interior. The branch circuit supplying the receptacles shall not serve outlets outside of the garage. (CEC 210.52 (G) (1).

- Laundry rooms must have at least one dedicated 20 amp receptacle circuit. (CEC 210.11(C) (2)). - All I5A and 20A, I25V receptacles installed in laundry areas of a dwelling unit

must be GFCI protected. - Provide 120V receptacle within 3 feet of water heater. (Cal Energy Code 150.0 (n) 1 A.)

- Smoke alarms shall be installed in the following locations (CRC R314.3, CBC 907.2.11.2, 907.2.11.3 \$ 907.2.11.4):

a. In each sleeping room.

b. Outside each separate sleeping area in the immediate vicinity of the

c. On each additional story, including basements and habitable attics. d. Not less than 3 feet horizontally from the door or opening of a bathroom

contains a bathtub or shower. e. A minimum of 20 feet horizontally from any permanently installed cooking

f. Smoke alarms shall be hardwired with battery back-up and interconnected

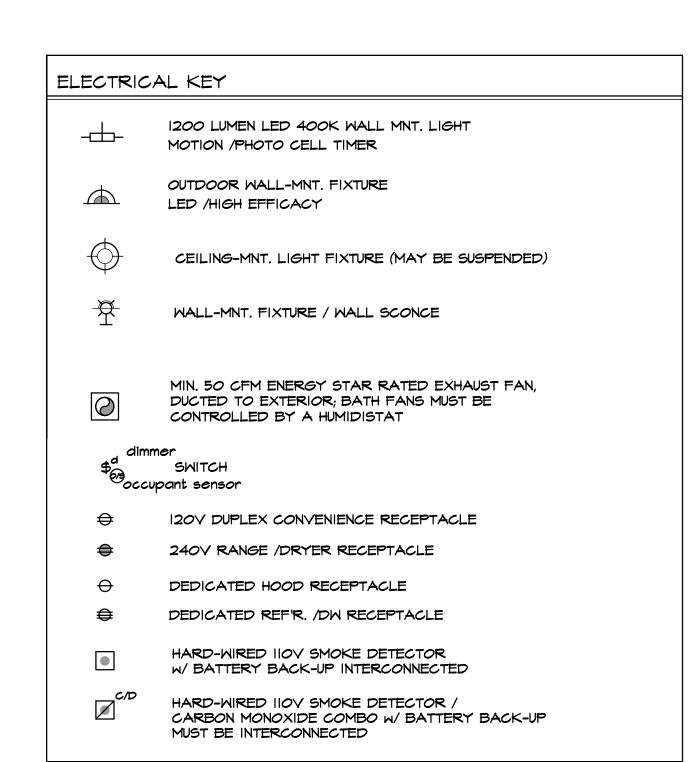
exempted in accordance with CRC R314.4 \$ R314.5 or CBC 907.2.11.5 \$ - Carbon monoxide alarms shall be installed in the following locations (CRC

a. Outside of each sleeping area in the immediate vicinity of the bedroom(s).

b. On every level of the dwelling unit including basements. c. Where a fuel-burning appliance is located within a bedroom or its

bathroom, a carbon monoxide alarm shall be installed within the bedroom. Carbon monoxide alarms shall be hardwired with battery back-up and interconnected unless exempted in accordance with CRC R315.





#### **2022 Residential Lighting Summary**

#### <u>Luminaire requirements</u>

• All installed luminaires shall meet the requirements of Table 150.0-A. To be classed as high efficacy, a lamp must be one of the technologies listed below. Please refer to Section 150.0(k) for further information and explanation.

Automatically High Luminous Efficacy Luminaires	Lamps and Light Sources That Must be JA8-certified	Lamps and Light Sources That Must be JA8-Certified for Elevated Temperatures
<ul> <li>LED light sources installed outdoors</li> <li>Inseparable solid-state lighting (SSL) luminaires containing colored light sources for decorative lighting purpose</li> <li>Pin-based linear fluorescent or compact fluorescent light sources using electronic ballasts</li> <li>High intensity discharge (HID) light sources including pulse-start metal halide and high-pressure sodium light sources</li> <li>Luminaires with induction lamp and hardwired high frequency generator</li> <li>Ceiling fan light kits subject to federal appliance regulations</li> </ul>	<ul> <li>Light sources installed in ceiling recessed downlight luminaires. (Screw bases are not allowed in ceiling recessed downlight luminaires.)</li> <li>LED luminaires with integral sources</li> <li>Screw-based LED lamps (Alamps, PAR lamps, etc.)</li> <li>Pin-based LED lamps (MR-16, AR-111, etc.)</li> <li>Any light source or luminaire not listed elsewhere in this table</li> </ul>	<ul> <li>Lamps and separable light sources in ceiling recessed downlight luminaires.</li> <li>Lamps and separable light sources in enclosed luminaires.</li> </ul>

#### EXCEPTIONS to Section 150.0(k)1A (Meeting Table 150.0-A)

1. Integrated device lighting: Lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors and garage door openers Navigation lighting such as night lights, step lights, and path lights less than 5 watts

3. Lighting internal to drawers, cabinetry and linen closets with an efficacy of 45 lumens per watt or greater

**Recessed Downlights Luminaires in Ceilings** 

 Shall not contain screw base lamp sockets; and • Have a label that certifies the luminaire is airtight with leakage less than 2 cfm at 75 Pascals. An exhaust fan housing with integral

light shall not be required to be certified airtight; and

Be sealed with a gasket or caulk between the luminaire housing and ceiling; and

 Meet the clearance and installation requirements of Cal Electrical Code Section 410.116 for recessed luminaires <u>Light sources in enclosed or recessed luminaires</u>

#### • Lamps and other separable light sources that are not compliant with JA8 elevated temp. requirements, shall not be installed in enclosed or recessed luminaires

**Indoor Lighting Control Requirements**  Readily accessible wall-mounted controls for manual ON and OFF • No controls shall bypass a dimmer, occupant sensor or vacancy sensor function

An Energy Management Control System (EMCS) or multiscene programmable control may be used to comply with dimming,

occupancy, and lighting control requirements • Automatic-off controls: in bathrooms, garages, laundry rooms, utility rooms, and walk in closets, at least one installed luminaire

shall be controlled by an occupancy/vacancy sensor for automatic shut-off • Dimming controls: Lighting in habitable spaces, including living rooms, dining rooms, kitchens, and bedrooms, shall have dimming

controls **EXCEPTIONS to Dimming Controls:** 

 Ceiling fans 2. Controlled lighting power less than 20 watts or controlled by an occupancy/vacancy sensor

3. Navigation lighting such as night lights, step lights, path lights less than 5 watts, and lighting internal to drawers and cabinetry

· Permanently installed luminaires providing residential outdoor lighting shall be high efficacy and meet the following requirements, as applicable:

Controlled by a manual ON and OFF switch that does not override to ON the automatic actions of Items below;

Controlled by photocell and motion sensor. Controls that override to ON shall not be allowed unless the override automatically reactivates the motion sensor within 6 hours;

Controlled by an astronomical time clock.

Controlled by an Energy management control system. COURTESY OF ABBAY TECHNICAL SERVICES – BUILDING ENERGY CONSULTANTS

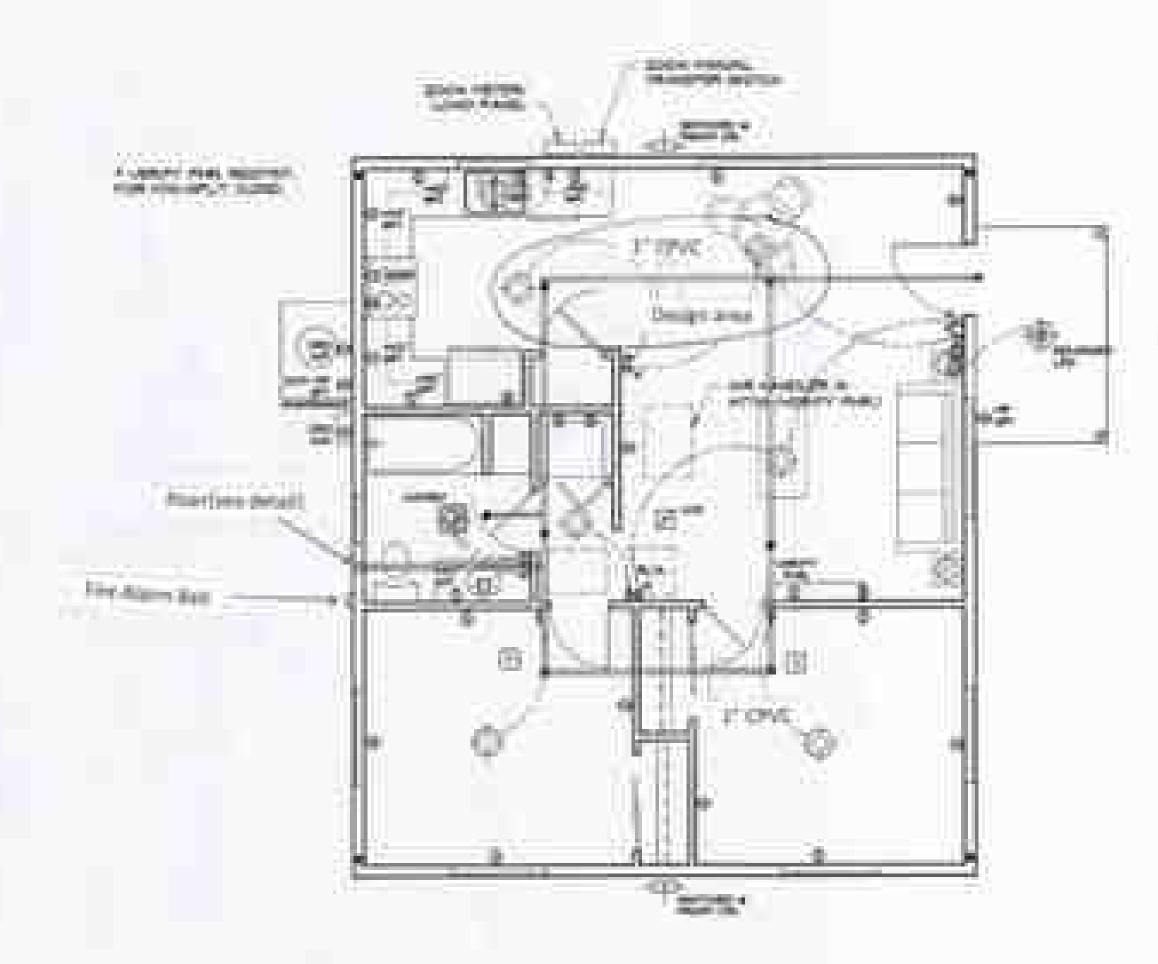
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PROJECT NO:

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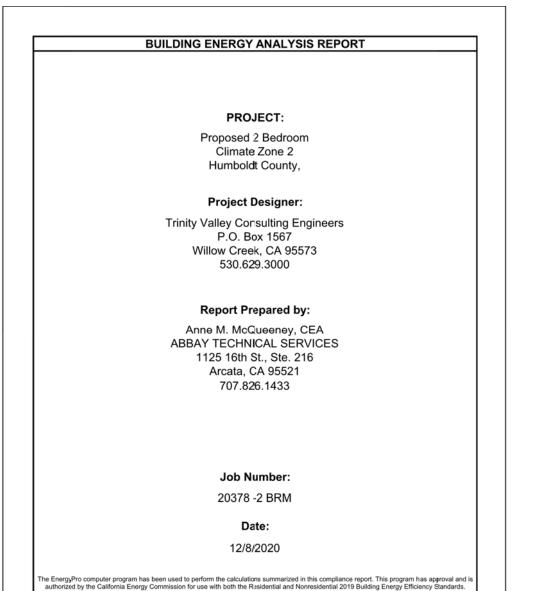


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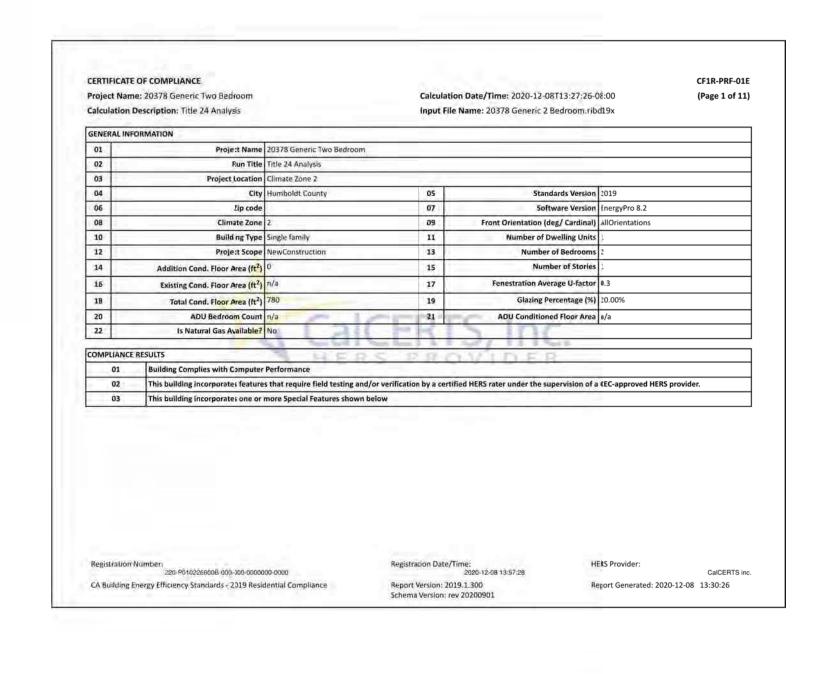
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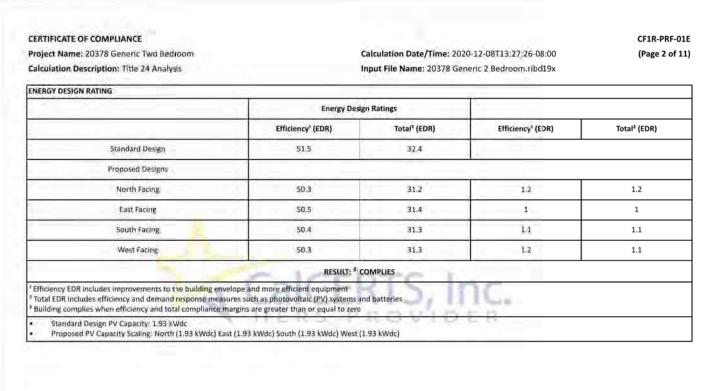
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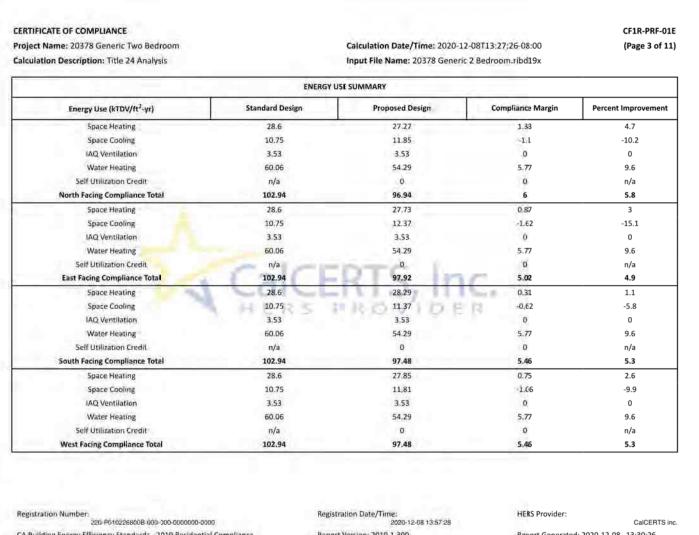
Schema Version: rev 20200901

Registration Number: 220-90102266008-000-000-0000000-0000

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CA Building Energy Efficiency Standards - 2019 Residential Compliance



Report Version: 2019.1.300

Schema Version: rev 20200901

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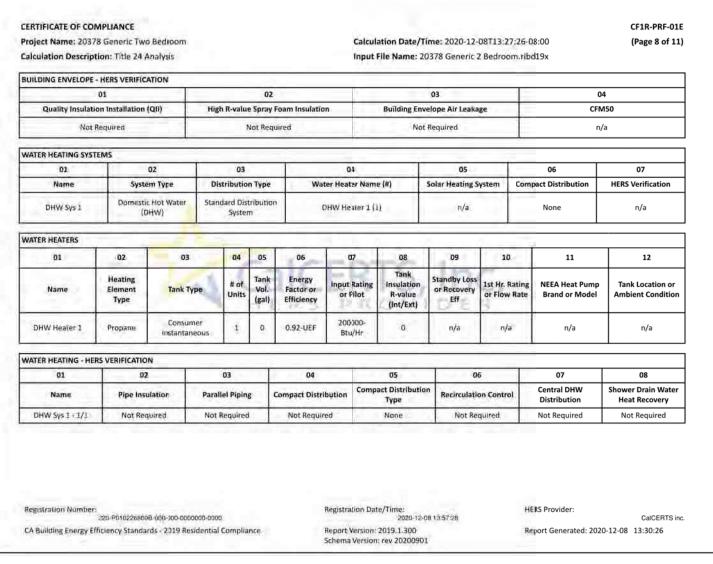
Calculation Description	IPLIANCE Generic Two on: Title 24				Date/Time: 202 lame: 20378 Ge					F1R Page
REQUIRED PV SYSTEMS	S - SIMPLIFIED									
01	02	03	04	05	06 07	08	09	10	11	Г
DC System Size (kWdc)	Exception	Module Type	Array Type F	Power Electronics	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	So
1.93	NA	Standard	Fixed	none t	rue 150-270	n/a	n/a	<=7:12	96	
REQUIRED SPECIAL FEA	TURES									
The following are featur	res that must	be installed as condition fo	r meeting the modeled	energy performance for	this computer an	lysis.				
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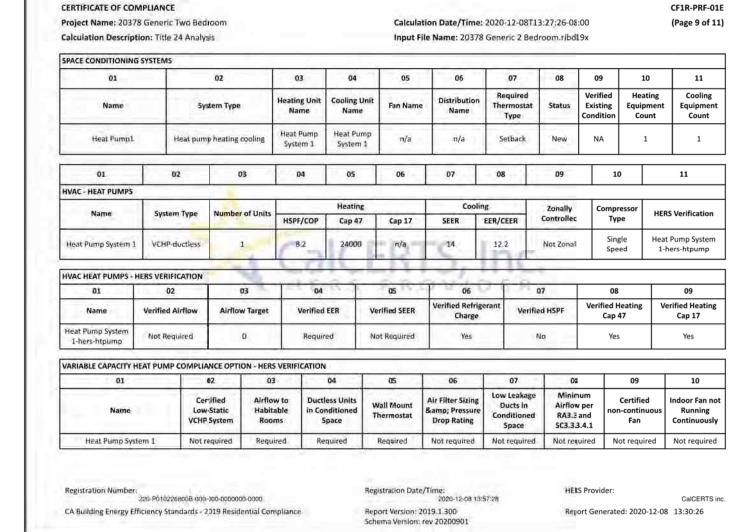
Project Name: 20378 Calculation Description	Generic Two Bedroom on: Title 24 Analysis				Time: 2020-12-08T 20378 Generic 2 Be		(Page 5 d
ZONE INFORMATION							
01	02	03	- 04		05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor A	Zone Floor Area (ft <sup>2</sup> ) Avg. Ceiling Height		Water Heating System 1	Water Heating Syste
2 Bdrm Residence	Conditioned	Heat Pump1	780	780		8 DHN Sys 1	
OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft	Window and Door Area (ft2)	Tilt (deg)
Front	2 Bdrm Residence	R-21 Wall	0	Front	208	40	90
Left	Z Bdrm Residence	R-21 Wall	90	Left	168	66	90
Back	2 Bdrm Residence	R-21 Wall	180	Back	208	49	90
Right	2 Bdrm Residence	R-21 Wall	270	Right	240	41	90
Interior Left	Z Bdrm Residence>>_Garage_	Interior R-21 Wall	n/a	n/a	72	0	n/a
Roof w/Attic	2 Bdrm Residence	R-38 Roof Attic	n/a	n/a	780	n/a	n/a
Roof	Garage	R-0 Utility Roof Attic	n/a	n/a	32.	n/a	n/a
Front 2	Garage	R-0 Utility Wall	Ð	Front	28	0	90
Left 2	Garage	R-0 Utility Wall	90	Left	72	0	90
Back 2	Garage	R-0 Utility Wall	180	Back	28	0	90
ATTIC							
01	02	03	04	05	06	07	08
Name	Construction	Туре	Roof Rise (x in 12)	Roof Reflectanc	e Roof Emittano	e Radiant Barrier	Cool Roof
Attic Garage	Attic Garage Roof Cons	Ventilated	0	0.1	0.85	No	No
Attic 2 Bdrm Residence	Attic Roof2 Bdrm Residence	Ventilated	4	0.1	0.85	No	No

Schema Version: rev 20200901

CERTIFICATE OF COM Project Name: 20378 Calculation Descripti	Generic Two Bedroom								13:27:26-( edroom.rlb				CF1R-PRF-01E (Page 6 of 11)
FENESTRATION / GLAZ	NG												
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Sourc e	Exterior Shading
5040	Window	Front	Front	0		1	1	20	0,3	NFRC	0.23	NFRC	Bug Screen
5040 2	Window	Front	Front	0		Ų — I	1.	20	0.3	NFRC	0.23	NFRC	Bug Screen
5040 3	Window	Left	Left	90		1	1	20	0,3	NFRC	0.23	NFRC	Bug Screen
2030	Window	Left	Left	90		1	1	6	0.3	NFRC	0.23	NFRC	Bug Screen
3030	Window	Back	Back	180			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
5040 4	Window	Back	Back	180			. 1	20	0.3	NFRC	0.23	NFRC	Bug Screen
3068 Glass Doo	Window	Back	Back	180			1	20	0.3	NFRC	0.35	NFRC	Bug Screen
5040 5	Windew	Right	Right	270		100	1	20	0.3	NFRC	0.23	NFRC	Bug Screen
3620	Window	Right	Right	270	-	0	1.	7	0.3	NFRC	0.23	NFRC	Bug Screen
3620 2	Window	Right	Right	270		No.	1	7	0,3	NFRC	0.23	NFRC	Bug Screen
3620 3	Window	Right	Right	270	E. No	18	1	7	0.3	NFRC	0.23	NFRC	Bug Screen
OPAQUE DOORS		3 4	- 12.5	12.50	00	61	D	- 12					
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	ime	Side of B		_		_	(ft²)			U-factor			
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SLAB FLOORS													
01	02	03	04		05			06		07			08
Name	Zone	Area (ft²)	Perimeter (ft)			Insul. R-value Edge Insul.		insul. R- nd Dept		Carpeted Fraction			Heated
Slab-on-Grade	2 Bdrm Residence	811	112		none			0		80%			No
Slab-on-Grade 2	Garage	32	16		none			ū		0%			No









Registration Number: 220.90102266008.000-300-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Registration Date/Time: 2020-12-08 13:57:28 Report Version: 2019.1.300 Schema Version: rev 20200901

HERS Provider: CalCERTS inc. Report Generated: 2020-12-08 13:30:26

ERTIFICATE OF COMPLIANCE Project Name: 20378 Generic Two Bedroom		F1R-PRF-01 age 11 of 11
		age II of II
Calculation Description: Title 24 Analysis	Input File Name: 20378 Generic 2 Bedroom,ribd19x	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
. I certify that this Certificate of Compliance documentation is accurate an	nd complete.	
Documentation Author Name:	Documentation Author Signature:	
Anne McQueeney	Anna McDucency	
ompany:	Signature Date:	
ABBAY TECHNICAL SERVICES	2020-12-08 13:57:28	
Address:	CEA/ HERS Certification (dentification (II applicable)	
1125 16th Street, Ste 216	R16-01-20010 CERTIFIED ENERGY ANALYST	
Siry/State/Zip:	Phone:	
Arcata, CA 95521	707-826-1433	
RESPONSIBLE PERSON'S DECLARATION STATEMENT  certify the following under penalty of perjury, under the laws of the State of Califor	rnia:	
certify the following under penalty of perjury, under the laws of the State of Califor  1. I am eligible under Division 3 of the Business and Professions Code to ac  2. I certify that the energy features and performance specifications identifi	cept responsibility for the audding design identified on this Certificate of Compliance.  ied on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Re Certificate of Compliance are consistent with the information provided on other applicable compliance documents, work  incy for approval with this building permit application.  Responsible Designer Sugnature:	
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Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

Registration Date/Time: 2020-12-0813:57:28 Registration Number: 220.90102268008.000-300-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.300 Schema Version: rev 20200901

at CalCERTS.com HERS Provider: CalCERTS inc. Report Generated: 2020-12-08 13:30:26

Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in Section 609.11 of the California Pumbing Code. In addition, the following piping conditions must have a minimum insulation wall thickness of one inch or a minimum insulation R-value of 7.7: the first five feet of cold water pipes from the storage tank; all hot water piping with a nominal diameter equal to or greater than 3/4 inch and less than one inch; all hot water piping with a nominal diameter less than 3/4 inch that is: associated with a domestic hot water recrulation system, from the heating source to storage tank or between tanks, buried below grade, and from the heating source to kitchen fixtures.\* Insulation Protection. Piping insulation must be protected frcm damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by Section 120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space sunt include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing o' sleeve. Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all o the following: A dedicated 125 volt, 20 amp electrical receptade connected to the electric panel with a 120/240 volt 3 conductor, 10 AWG copper branch circuit, within three feet of the water heater without obstruction. Both ends of the unused conductor must be labeled with the of the water heater, and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu per hour. Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5.

Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the Executive Director. Measures:

Ducts. Insulation installed on an existing space-conditioning cuct must comply with § 604.0 of the California Mechanical Code (CNC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement. CMC Compliance. All air-distribution system ducts and plenums must meet the requirements of the CMC §§ 601.0, 602.0, 603.0, 604.0, 605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Stancards Metal and Flexible 3rd Edition. Portions of supply-air and return air ducts and plenums must be insulated to a minimum installed level of R-2.0 or a minimum installed level of R-4.2 when ducts are entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8). Portions of the duct system completely exposed and mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/2

2019 Low-Rise Residential Mandatory Measures Summary

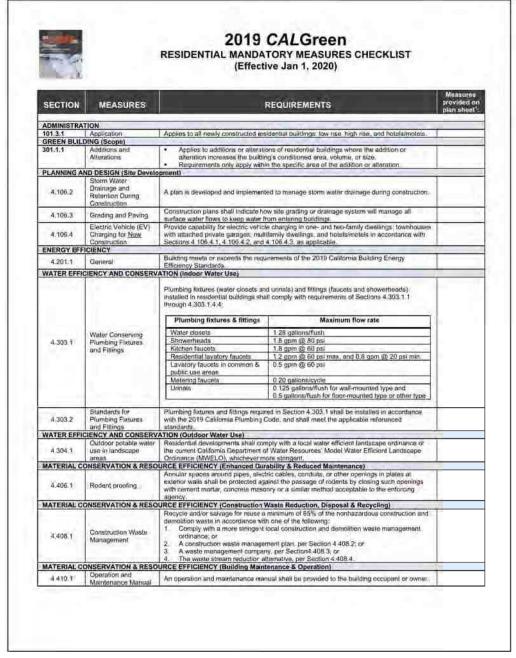
inch, the combination of mastic and either mesh or tape must be used. Building cavities, support platforms for air handlers, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms must not be compressed to cause eductions in the consequence of the consequence o Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands. Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive apes, mastics, sealants, and other requirements specified for duct construction.

Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers. Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.

Protection of Insulation. Insulation must be protected from camage, sunlight, moisture, equipment maintenance, and wind. Insulation expose Protection of insulation, insulation must be protected from camage, sunight, moisture, equipment maintenance, and wind, insulation expt to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellulai foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation. § 150.0(m)10: Porous Inner Core Flex Duct. Porous inner core flex ducts must have a non-porous layer between the inner core and outer vapor barrier.

Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with § 150.0(m)11 and Reference Residential Appendix RA3. Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or

equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0A. Pressur drops and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service.\* Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a ho of the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit far efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ €.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handlin unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3.\*



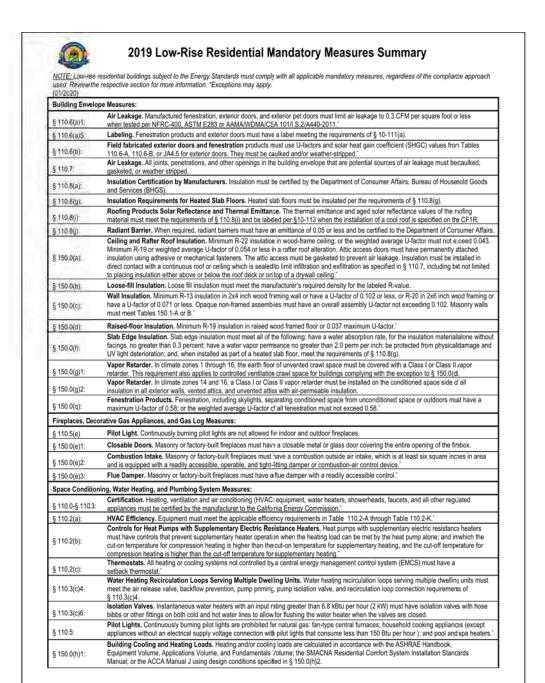
Requirements f	or Ventilation and Indoor Air Quality;
§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.
§ 150 0(a)1C	Single Family Detached Dwelling Units. Single family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow provided at rates determined by ASHRAE 62.2 Sections 4.1.1 and 4.1.2 and asspecified in § 150.0(o)1C.
§ 150.0(a)1E:	Multifamily Attached Dwelling Units. Multifamily attached dwelling units must have mechanical ventilation airflow provided at rates in accordance with Equation 150.0-B and must be either a balanced system or continuous supply or continuous exhaust system. If a balanced system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be 5 0.3 cPm at 50 P (0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential Appendix RA3.8.
§ 150.0(o)1F:	Multifamily Building Central Ventilation Systems. Central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow for each dwelling unit served at a rate equal to or greater than the rate specified by Equation 130-00-8. All unit air/lows must b within 20 percent of the unit with the lowest airflow rate as it relates to the individual units' minimum required airflow rate needed for compliance.
§ 150.0(a)1G;	Kitchen Range Hoods. Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASHRAE 62.2.
§ 150,0(o)2:	Field Verification and Diagnostic Testing. Dwelling unit vertilation airflow must be verified in accordance with Reference Residential Appendix RA3.7. A kitchen range hood must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm it is rated by HVI to comply with the airflow rates and sound requirements as specified in Section 5 and 7.2 of ASHRAE 62.2.
Pool and Spa S	ystems and Equipment Measures:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations; an or-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools mus: have directional inlets that adequately mix the pool water, and a time switch tha will allow all pumps to be set or programmed to run only durin; off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential poolsystems or equipment must meet the specified requirements for pump sizing, flor rate, piping, filters, and valves."
Lighting Measu	res:
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirement of § 110.9."
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A.
§ 150.0(k)1B:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, o fan speed control.
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC) labeling; air leakage; sealing; maintenance; and socket and light source as described in § 150.0(k)1C.
§ 150.0(k)1D:	Electronic Ballasts for Fluorescent Lamps. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.
§ 150.0(k)1E:	Night Lights, Step Lights, and Path Lights. Night lights, step lights and path lights are not required to comply with Table 150.0-4 or be controlled by vacancy sensors provided they are rated to consume no more than 5 watts of power and emit no more than 150 lumens.
§ 150.0(k)1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8."
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamçs and other separable light sources that are not compliant with the J\u03b8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not recuired to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit n more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems."
§ 150.0(k)2C:	Interior Switches and Controls. Lighting must have readily eccessible wall-mounted controls that allow the lighting to be manually turned ON and OFF.*
3 100.0(11)20.	
§ 150.0(k)2D:	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.
	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.  Interior Switches and Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed to comply with § 150.0(k).

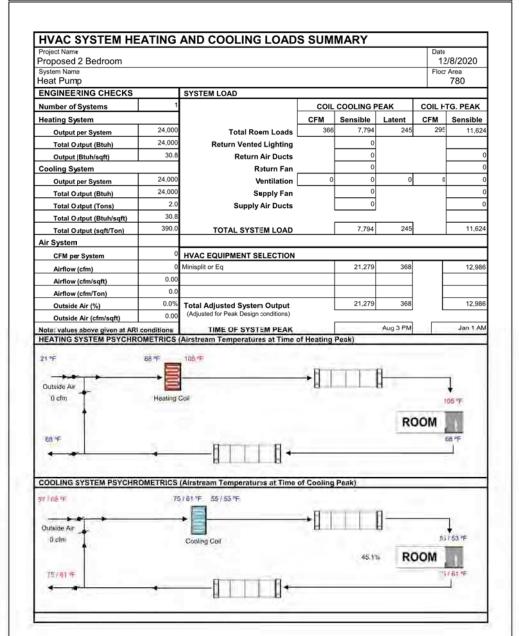
SECTION	MEASURES	REQUIREMENTS	Measures provided on plan sheet <sup>1</sup> :
4.410.2	Recycling by Occupants	Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas that serve all buildings on the site and is identified for the depositing, storage and collection of norr-hazardous instetlets for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastins, organic wante, and metals or medi a lawfully enacted local recycling ordinance, if more restrictive. See exception for rural jurisdictions,	pian sneer
ENVIRONME	NTAL QUALITY (Firepla	oes)	
4.503.1	General	Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or petiet stove shall comply with U.S. E.P.N. haw Source Performance Standards INSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, petiet stoves and fireplaces shall also comply with all applicable local andranous.	
ENVIRONME	NTAL QUALITY (Polluta		
4.504.1	Covering of Duct Openings & Protection of Mech Equipment During Construction	Duct openings and other related air distribution component openings shall be covered during construction	
4.504.2.1	Adhesives, Sealants and Caulks	Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits	
4.504.2.2	Paints and Coatings	Paints, stains and other coatings shall be compliant with VOC limits.	
4.504.2.3	Agrosol Paints and Coatings	Aerosol paints and coalings shall be compliant with product weighted MIR limits for ROC and ather toxic compounds.	
4.504.2.4	Verification	Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	
4,504,3	Carpet Systems	Carpet and carpet systems shall be compliant with VOC limits.	
4.504.4	Resilient Floaring. Systems	80 percent of floor area receiving resilient flooring shall comply with specified VOC criteria.	
4.504.5	Composite Wood Products	Particleboard, medium density fiberboard (MDF) and hardwood plywood used in the Interior finish systems shall comply with ow formaldehyde emission standards.	
ENVIRONME	NTAL QUALITY (Interior	Moisture Control)	
4,505.2	Concrete Slab Foundations	Vapor relarder and capillary break is installed at slab-on-grade foundations.	
4.505.3	Moisture Content of Building Materials	Moisture content of building materials used in wall and floor framing is checked before enclosure.	
ENVIRONME	NTAL QUALITY (Indoor	Air Quality & Exhaust)	
4.506.1	Bathroom Exhauat Fans	Each bathroom shall be provided with the following:  1. ENERGY STAR fans ducted to terminate outside the building.  2. Fans must be controlled by a humidity control (reparate or built-in); OR functioning as a component of a whole-house ventilation system.  3. Humidity controls shall with manual or automatic means of adjustment, canable of adjustment between a relative functioidly range of less than 50% to a maximum of 80%. Note: For the purposes of this section is bathroom is a room which contains a bathroom shower, or tobyshower or problimation. Fans are regulated in each bathroom.	
ENVIRONME	NTAL QUALITY (Environ	mental Comfort)	
4 507.2	Heating and Air Conditioning System Design	Duct systems are sized, designed, and equipment is selected using the following methods:  Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2016 (Residential Load Calculation), or equivalent.  Size duct systems according to ANSI/ACCA 1 Manual D-2016 (Residential Duct Systems), or equivalent according to ANSI/ACCA 3 Manual S-2014 (Residential Equipment according to ANSI/ACCA 3 Manual S-2014 (Residential Equipment Solection) or equivalent.	
		QUALIFICATIONS (Qualifications, Verifications)	
702.1	Installer Training	HVAC system installers are trained and certified in the proper installation of HVAC systems	
702.2	Special Inspection	Special inspectors must be qualified and able to demonstrate competence to the enforcing agency in the discipline in which they are inspecting.	
/03.1	Documentation	Verification of compliance with this code may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance.	
ootnotes: Indicate N/A if	not applicable.		

Page 2 of 2

Project Name		SURES	<u>SUIVIIVI</u>	<u>ARY</u>					RMS-1
	2 Bedroom		Buil	ding Type	☑ Single Far ☐ Multi Fami		Addition Alone Existing+ Addition	n/Alteration	Date 12/8/2020
Project Addres			Cali	fornia Ene	gy Climate Zone	,	Cond. Floor Area	Addition	# of Units
	one 2 Humbola	It County			te Zone 02		780	n/a	1
INSULAT Construc			Cav	/itv	Area (ft²)	Specia	I Features		Status
	lood Framed Attic		R 38	,	780				New
Wall W	/ood Framed		R 21		628				New
Door Op	paque Door		- no in	sulation	40				New
Slab Ur	nheated Slab-on-Grad	de	- no in	sulation	811 Perin	n = 112'			New
Demising W	/ood Framed		R 21		72				New
FENEST	RATION	Total Area:	156	Glazing	Percentage:		New/Altered Avera	age U-Factor:	0.30
	on Area(ft <sup>2</sup> )		SHGC	Overh		fins	Exterior Sh	ades	Status
Front (S)	40.0	0.300	0.23	none	none		N/A		New
Left (W)	26.0	0.300	0.23	none	none		N/A		New
Rear (N)	29.0	0.300	0.23	none	none		N/A		New
Rear (N)	20.0	0.300	0.35	none	none		N/A		New
Right (E)	41.0	0.300	0.23	none	none		N/A		New
HVAC SY	YSTEMS								
HVAC SY Qty. He		Min. E	ff Co	ooling	Mi	n. Eff	The	rmostat	Status
Qty. He		Min. E 8.20 HSF		oling it Heat Pui		n. Eff	<b>The</b> Setback		Status New
Qty. He	eating it Heat Pump STRIBUTION		F Spi			0 SEER	Setback		
Qty. He  1 Split  HVAC DI  Location	eating It Heat Pump  STRIBUTION Heat Pump	8.20 HSF	F Spi	it Heat Pur	пр 14.	0 SEER	Setback E F	Duct	New
Qty. He  1 Solid  HVAC DIS  Location  Heat Pump	STRIBUTION Ducti	8.20 HSF eating less / No Fan	Co Duc	oling	Duct Loc	o SEER	Setback  L F	Duct R-Value	Status New
HVAC DISLOCATION Heat Pump WATER H	STRIBUTION  Ducto	eating less / No Fan	F Spi	oling tless Min. 1	Duct Loc	o SEER	Setback  L F	Duct R-Value	Status New Status
HVAC DISLOCATION Heat Pump WATER H	STRIBUTION Ducti	eating less / No Fan	Co Duc	oling	Duct Loc	o SEER	Setback  L F	Duct R-Value	Status New
HVAC DISLOCATION Heat Pump WATER H	STRIBUTION  Ducto	eating less / No Fan	Co Duc	oling tless Min. 1	Duct Loc	o SEER	Setback  L F	Duct R-Value	Status New Status

-	2019 Low-Rise Residential Mandatory Measures Summary
§ 150.0(k)2G:	Interior Switches and Controls. An energy management control system (EMCS) may be used to comply with control requirements if it: provides functionality of the specified control according to § 17.9; meets the Installation Certificate requirements of § 130.4; meets the EMCS requirements of § 130.0(e); and meets all other requirements in § 150.0(e); 2.
§ 150.0(k)2H;	Interior Switches and Controls. A multiscene programmable controller may be used to comply with dimmer requirements in § 150.0(k) if it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(k)2.
§ 150.0(k)21:	Interior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must be controlled by an occupant sensor or a vacancy sensor providing automatic-off functionality. If an occupant sensor is installed, it must be initially configured to manual-on operation using the manual control required under Section 150.0(k)2C.
§ 150,0(k)2J:	Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joint Appendix JA8 requirements for dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls."
§ 150.0(k)2K:	Interior Switches and Controls. Under cabinet lighting must be controlled separately from ceiling-installed lighting systems.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must meet the requirement in item § 150.0(k)34i (0h and OFF switch) and the requirements in either § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control) or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control) or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control) or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control) or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time switch control or § 150.0(k)34ii (photoceal and either a motion sensor or automatic time sensor or aut
§ 150.0(N)38	Residential Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, outdoor lighting for private patios, entrances, basiconies, and porches; and residential parking lots and carports with less than eight vehicles per site must comply with either § 150.0(k)3A or with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(k)3C:	Residential Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, any outdoor lighting for residential parking lots or carports with a total of eight or more vehicles per site and any outdoor lighting not regulated by § 150.0(k)3B or § 150.0(k)3D must comply with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must comply with § 140.8; or must consume no more than 5 watts of power as determined according to § 130.0(c).
§ 150.0(k)5	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in Sections 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
§ 150.0(k)6A:	Interior Common Areas of Low-rise Multifamily Residential Buildings. In a low-rise multifamily residential building where the total interior common area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building must be comply with Table 150.0-A and be controlled by an occupant sensor.  Interior Common Areas of Low-rise Multifamily Residential Buildings. In a low-rise multifamily residential building where the total interior
\$ 150.0(k)6B;	common area in a single building equals more than 20 percent of the floor area, permanently installed lighting for the interior common areas in that building must:  Comply with the applicable requirements in Sections 110.9, 130.0, 130.1, 140.6 and 141.0; and  Lighting installed in comidors and stainvells must be controlled by occupant sensors that reduce the lighting power in each space by at least 50 percent. The occupant sensors must be capable of turning he light fully on and off from all designed paths of ingress and egress.
Solar Ready Bui	
§ 110.10(a)1:	Single Family Residences. Single family residences located in subdivisions with 10 or more single family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b) through § 110.10(e).
§ 110.10(a)2:	Low-rise Multifamily Buildings. Low-rise multi-family buildings that do not have a photovoltaic system installed must comply with the requirements of § 110.10(b) through § 110.10(d).
§ 110.10(b)1:	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than a 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For ingle family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. For low-rise multi-family buildings the solar zone must be located on the roof or overhang of the building, or on the roof or overhang of another structure located within 250 feet of the building, or on covered parking installed with the building project, and have a total area no less than 15 percent of the total roof area of the building accluding any skylight area. The solar zone requirement is applicable to the entire building, including mixed occupancy.
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must be oriented between 90 degrees and 300 degrees of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment."
§ 110.10(b)3E:	Shading. Any obstruction located on the roof or any other par of the building that projects above a solar zone must be located at least twice the distance, measured in the horizontal plane, of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating systems.
§ 110.10(d):	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b) through § 110.10(c) must be provided to the occupant.
	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)1:	main Electrical Service Failer. The main electrical service pener must have a minimum busbar rating of 200 amps.





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