2022 Residential – California Green Building Standards Code

Electric Vehicle Charging
- A listed raceway to facilitate future installation of Electric Vehicle Charger.
- Raceway shall be not less than trade size 1 (nominal 1–in. diameter) to accommodate a dedicated 208/240–volt branch circuit.
- Raceway shall originate at the main service or subpanel and terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of the EV charger.
- Raceway shall be continuous at enclosed, inaccessible or concealed areas and spaces.
- The service panel or subpanel shall provide capacity to install a 40–ampre minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.
- The service panel or subpanel circuit directory shall identify:
  a) The overcurrent protective device space(s) for future EV charging as "EV CAPABLE"
  b) The raceway termination location as "EV CAPABLE□

General Notes:
- New residential developments with a landscape area over 500 sq. ft. shall comply with one of the following [CALGreen 4.304.1]:
  1) Local water efficient landscape ordinance or current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO).
  2) Landscape areas less than 2500 sq. ft. may comply with MWELO's Appendix D Prescriptive Compliance Option.
- Joints and openings, annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency. [CALGreen 4.406.1].
- Before final inspection, a complete operation and maintenance manual shall be placed in the building. A sample of the manual is available on the Housing and community Development (HCD) web site. The manual should include the items listed in 2022 CALGreen 4.410.1.
- Paints, stains, coatings, adhesives, sealants and caulks shall comply with the Volatile Organic Compound (VOC) limits listed in 2022 CALGreen Section 4.504.2.
- The VOC Content Verification shall be made available to the City staff upon request.
- All new and carpet cushions installed in the building interior shall meet the testing and product requirements of one of the following:
  1) Carpet and Rug Institute's Green Label Plus Program
  2) California Department of Public Health's Specification 01350
  3) NSF/ANSI 140 at the Gold level
  4) Scientific Certification Systems Indoor AdvantageTM Gold
- Eighty percent of the floor area receiving resilient flooring shall comply with one or more of the following [CALGreen 4.504.4]:
  1) VOC emission limits defined in the CHPS High Performance Products Database
  2) Certified under UL GREENGUARD Gold
  3) Certification under the Resilient Floor Covering Institute (RFCI) FloorScore Program
  4) Meet the California Department of Public Health's Specification 01350
- New hardwood plywood, particle board, and medium density fiberboard (MDF) composite wood product used in the building shall meet the formaldehyde limits listed in 2022 CALGreen Table 4.504.5.
- Building materials with visible signs of water damage shall not be installed. Walls and floors framing shall not be enclosed when framing members exceed 19% moisture content. [CALGreen 4.505.3].

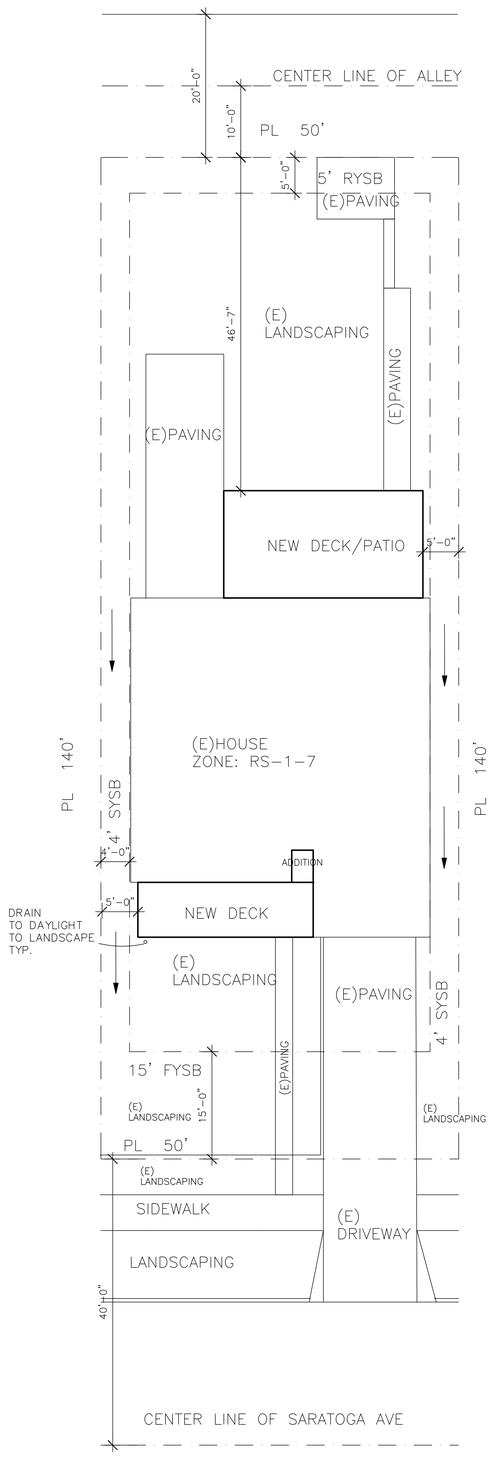
Plumbing/Mechanical
- A plumbing fixture certification must be completed and signed by either a licensed general contractor, a plumbing subcontractor, or the building owner certifying the flow rate of the fixtures installed. A copy of the certification can be obtained from the Development Services Department.
- All plumbing fixtures and fittings will be water conserving and will comply with the 2022 CGBSC
- Per 2022 CGBSC, plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall be installed in accordance with the California Plumbing Code (CPC).
- Provide lavatory faucets with a maximum flow of 1.2 gallons per minute (GPM).
- Provide kitchen faucets with a maximum flow of 1.8 gallons per minute (GPM).
- Provide water closets with a maximum flow of 1.28 gallons flush (GPF).
- Provide shower heads with a maximum flow of 1.8 gallons per minute (GPM).
- When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time. Handheld showers are considered showerheads.
- Permanent vacuum breakers shall be included with all new hose bibbs.
- Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall be installed in accordance with the California Plumbing Code (CPC).
- Any installed gas fireplace shall be a direct–vent sealed–combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA Phase II emission limits where applicable. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.
- Mechanical exhaust fans which exhaust directly from bathrooms shall comply with the following:
  1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
  2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidistat which shall be readily accessible. Humidistat controls shall be capable of adjustment between a relative humidity range of 50 to 80 percent.
- Heating and Air conditioners shall be sized, designed and have their equipment selected using the following methods:
  1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J – 2004 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
  2. Duct systems are sized according to ANSI/ACCA 1 Manual D – 2009 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.
  3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S – 2004 (Residential Equipment Selection).
- All duct and other related air distribution component openings shall be covered during with tape, plastic, or sheet metal until the final startup of the heating cooling, and ventilation equipment. [CALGreen 4.504.1].
- Newly installed bathroom exhaust fans shall be Energy Star compliant and be ducted to terminate outside of the building. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidistat which can adjust between 50 to 80 percent. [CALGreen 4.506.1].

Outdoor Showers
- Outdoor shower drains and sinks are not permitted to connect to the public sewer system unless equipped with an approved cover. Cold water connection only.
- Storm/Rainwater is not permitted in the public sewer conveyance system

AMOUNT OF DISTURBANCE AREA: 620 SF
EXISTING AMOUNT OF IMPERVIOUS AREA: 3000 SF
PROPOSED AMOUNT OF IMPERVIOUS AREA: 620 SF
TOTAL IMPERVIOUS AREA: 3620 SF
IMPERVIOUS % INCREASE: 20%

CUT QUANTITIES: 1 CYD
FILL QUANTITIES: 1 CYD
IMPORT/EXPORT: 0 CYD
MAX. CUT DEPTH: 1 FT
MAX FILL DEPTH: 1 FT

THE PROJECT PROPOSES TO EXPORT 0 CY OF MATERIALS FROM THIS SITE.



SITE PLAN
SCALE: 1"=10'

SOILS:
THE STRUCTURE WILL BE LOCATED ENTIRELY ON NATIVE UNDISTURBED SOIL IF THE BUILDING INSPECTOR SUSPECTS FILL EXPANSIVE SOILS OR ANY GEOLOGIC INSTABILITY BASED UPON OBSERVATION OF THE FOUNDATION EXCAVATION. A SOILS OR GEOLOGICAL REPORT & RESUBMITTAL OF PLANS TO PLAN CHECK TO VERIFY THAT REPORT RECOMMENDATIONS HAVE BEEN INCORPORATED MAY BE REQUIRED.

OWNER SIGNATURE:

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES:

2022 California Residential Code
2022 CALIFORNIA BUILDING CODE

2022 California Electrical Code (CEC)..... Part 3, Title 24, CCR)
2022 California Mechanical Code (CMC)..... (Part 4, Title 24, CCR)
2022 California Plumbing Code (CPC)..... (Part 5, Title 24, CCR)
2022 California Energy Code..... (Part 6, Title 24, CCR)
2022 California Fire Code (CFC)..... (Part 9, Title 24, CCR)
2022 California Referenced Standards Code..... (Part 12, Title 24, CCR)

SHEET INDEX

A1	SITE PLAN / TITLE SHEET
1	SURVEY
A2	FLOOR PLANS
A3	FLOOR PLANS
A4	CITY STANDARDS
A5	CITY STANDARDS
A6	CITY STANDARDS
A7	CITY STANDARDS
A8	TITLE 24
A9	TITLE 24

All storm water runoff from proposed and/or replaced impervious areas shall be
routed to pervious surfaces or landscaping prior to reaching the public drain system

Per City o f San Diego Municipal Code Sections 12.0104, 43.010, 129.0104(a)(4 , and 142.0220, permits are required to
be inspected by City Inspection staff to ensure compliance with issued constructio n permit. This includes, but not
limited to , Stormwater Compliance Inspection Requirements associated with each permit."

SCOPE OF WORK:

1, new deck IN FRONT, BACK
2, NEW PATIO IN BACK
3, CLOSET ADDITION

A.P.N #: 4487610200
LEGAL DESCRIPTION: TR 1106 BLK 89*LOT 23*
ADDRESS:
4483 SARATOGA AVE, SAN DIEGO, CA 92107
CONSTRUCTION TYPE: V–B
ZONING: RS–1–7

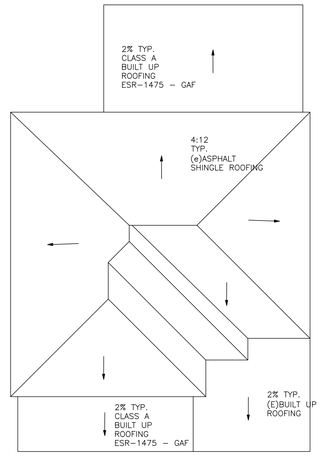
SITE DATA:
existing lot: 7000 SF
existing living area: 1989 sf
EXISTING GARAGE: 400 SF
NEW DECK IN FRONT: 188 SF
NEW PATIO IN FRONT: 188 SF (EXEMPT FROM PERMIT)
NEW DECK IN BACK: 418 SF
NEW PATIO IN BACK: 418 SF
ADDITION: 13.5 SF
FAR: (1989+400+13.5)/7000=0.34<0.58 (ALLOWED)

occupancy:R-3
Number of stories:2
year built of existing house: 1949
OWNER: WALTER NELSON AND TAMARA NELSON
(619) 408-6823 AND (858) 842-8166

This set of plans and specifications shall be kept on the site of the structure of work and the provisions of the code authorized by these plans is in progress, and shall be made available to City officials. The issuance of a permit based on, modify, or alter the approved plans and specifications without authorization or the violation of any of the provisions of these plans and specifications SHALL NOT be held to permit nor approve the violation of any City, County, State, or federal laws, nor restrictions.

PERMIT ISSUED

6/9/2026, 11:47:51 AM
PRJ-1140156
Rebecca Popoff



ROOF PLAN
SCALE: 1"=10'

STORM WATER QUALITY NOTES CONSTRUCTION BMPS

THIS PROJECT SHALL COMPLY WITH ALL CURRENT REQUIREMENTS OF THE STATE PERMIT; CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (SDRWQCB, SAN DIEGO MUNICIPAL
STORM WATER PERMIT, THE CITY OF SAN DIEGO LAND DEVELOPMENT CODE, AND THE STORM
WATER STANDARDS MANUAL.

PRIOR TO ANY SOIL DISTURBANCE, TEMPORARY SEDIMENT CONTROLS SHALL BE INSTALLED BY THE CONTRACTOR OR QUALIFIED PERSON(S) AS INDICATED BELO‹

1. ALL REQUIREMENTS OF THE CITY OF SAN DIEGO " STORM WATER STANDARDS MANUAL" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUZTION LEVEL BMPS AND. IF APPLICABLE, THE STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) FOR POST-CONSTRUCTION BMPS.

2THE CON] RACTOR SHALL INSTALL AND MAINTAIN ALL STORM DRAIN INLET PROTECTION. INLET PROTECTION IN THE PUBLIC RIGHT-OF-WAY MUST BE TEMPORARILY REMOVED PRIOR TO A RAIN EVENT TO ENSURE NO FLOODING OCCURS F ND REINSTALLED AFTER RAIN IS OVER.

3. ALL CONSTRUCTION BMPS SHALL BE INSTALLED AND PROPERLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.

4. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED CONTACT PERSON CAN PROVIDE EROSION AND SEDIMENT CONTROL MEASURES.

5. TH E CONTRACTOR IS RESPONSIBLE FOR ENSUIING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER BMPS AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APP OVED SWPPP/WPCP WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, CIVIL PENALTIES, AND/OR STOP WORK NOTICES.

6. THE CONTRACTOR OR QUALIFI ED CONTACT PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT, DEBRIS, AND MUD ON AFFECTED AND ADJACENT STREET(S) AND WITHIN STORM DRAIN SYSTEM DUE TO CONSTRUCTION VEHICLES/EQUIPMENT AND CONSTRUCTION ACTIVITY AT THE END OF EACH WORK DAY

7. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING STORM WATER CONVEYANCE SYSTEMS FROM SEDIMENTATION, ZONCRETE RINSE, OR OTHER CONSTRUCTION-RELATED DEBRIS AND DISCHARGES WITH THE APPROPRIATE BMPS THAT ARE ACCEPTABLE TO THE CITY RESIDENT ENGINEER AND AS INDICATED IN THE SWPPP/WPCP

8. THE CONTRACTOR OR QUALIFIED CONTACT PERSON SHALL CLEAR DEBRIS, SIL , AND MUD FROM ALL DITCHES AND SWALES PRIOR TO AND WITHIN 3 BUSINESS DAYS AFTER EACH RAIN EVENT OR PRIOR TO THE NEXT RAIN EVENT. WHICHEVER IS SOONER.

9. IF A NON-STORM WATER DISCHARGE LEAVES THE SITE, THE CONTRACTOR SHALL IMMEDIATELY STOP THE ACTIV ITY AND REPAIR THE DAMAGES. THE CONTRACTOR SHALL NOTIFY THE CITY RESIDEN T ENGINEER OF THE DISCHARGE. PRIOR TO RESUMING CONSTRUCTION ACT IVITY, ANY AND ALL WASTE MATERIAL, SEDIMEN T, AND DEBRIS FROM EACH NON-STORM WATER DISCHARGE SHALL BE REMOVED FROM THE STORM DRAIN CONVEYANCE SYSTEM AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

10. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATE IALS SHALL BE STOCKPILED ONSITE AT CONVENIEN T LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF CONSTRUCTION BMPS WHEN RAIN IS IMMINENT.

11. THE CONTRACTOR SHALL RESTORE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO WORKING ORDER YEAR ROUND

12. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DUE TO UNFORESEEN CIRCUMSTANCES TO PREVENT NON-STORM WATER AND SEDIMENT -LADEN DISCHARGES.

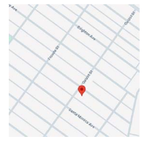
13. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

14. ALL EROSION AND SEDIMENT CON] ROL MEASURES PROVIDED PER THE APPROVED SWPPP/WPCP SHALL BE INSTALLED AND MAINTAINED. ALL EROSION AND SEDIMEN] CONTROLS FOR INTERIM CONDITIONS SHALL BE PROPERLY DOCUMENTED AND INSTALLED TO THE SATISFACTION OF THE CITY RESIDENT ENGINEER.

15. AS NECESSARY, TH E CITY RESIDENT ENGINEER SHALL SCHEDULE MEETINGS FOR THE PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED CONTACT PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER, AND THE CITY RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION AND SEDIMENT CONTROL MEASURES AND OTHER BMPS RELATIVE TO ANTICIPATED CONSTRUCTION ACTIVITIES.

16. THE CONTRACTOR OR QUALIFIED CONTACT PERSON SHALL CONDUCT VISUAL INSPECTIONS AND MAINTAIN ALL BMPS DAILY AND AS NEEDED. VISUAL INSPECTIONS AND MAINTENANCE OF ALL BMPS SHALL BE CONDUCTED BEFORE, DURING, AND AFTER EVERY RAIN EVENT AND EVERY 24 HOURS DURING ANY PROLONGED RAIN EVENT. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL BMPS AS SOON AS POSSIBLE AS SAFETY ALLOWS.

17. CONSTRUCTION ENTRANCE AND EXIT AREA. TEMPORARY CONSTRUCTION ENTRANCE AND EXITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CASQA FACT SHEET TC- L OR CALTRANS FACT SHEET TC-01 TO PREVEN T TRACKING OF SEDIMENT AND OTHER POTENTIAL POLLUTANTS ONTO PAVED SURFACES AND TRAVELED WAYS. WIDTH SHALL BE 10'OR THE MINIMUM NECESSARY TO ACCOMMODATE VEHICLES AND EQUIPMENT WITHOUT BY-PASSING THE ENTRANCE. (A) NON-STORM WATER DISCHARGES SHALL BE EFFECTIVELY MANAGED PER THE SAN DIEGO MUNICIPAL CODE CHAPTER 4 . ARTICLE 3. DIVISION 3"STORM WATER MANAGEMENT AND DISCHARGE CONTROL"



NORTH

VICINITY MAP

PROJECT TITLE

DECK

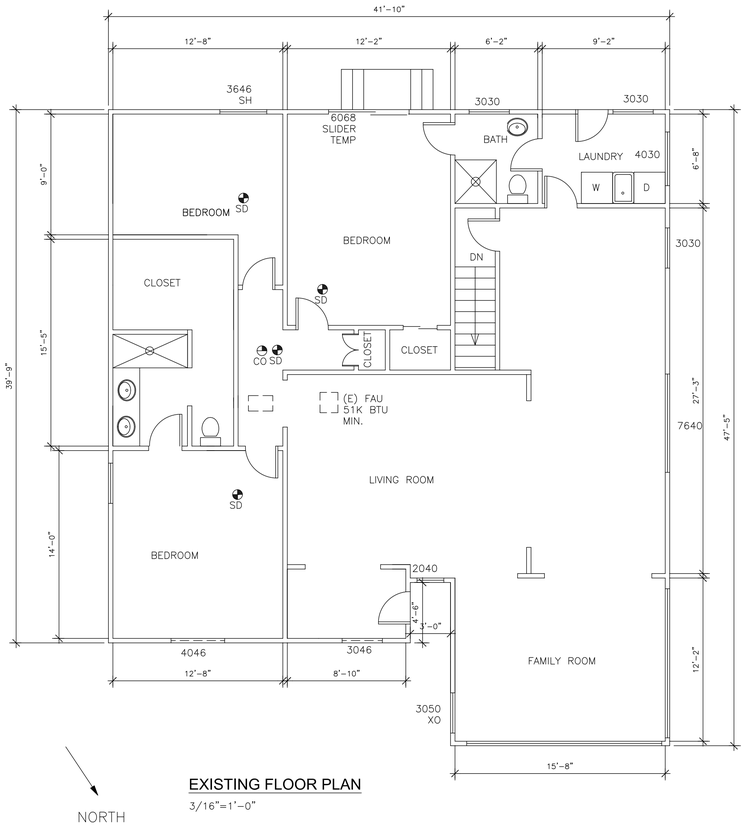
4483 Saratoga Ave, San Diego, CA 92107

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DRAWING TITLE

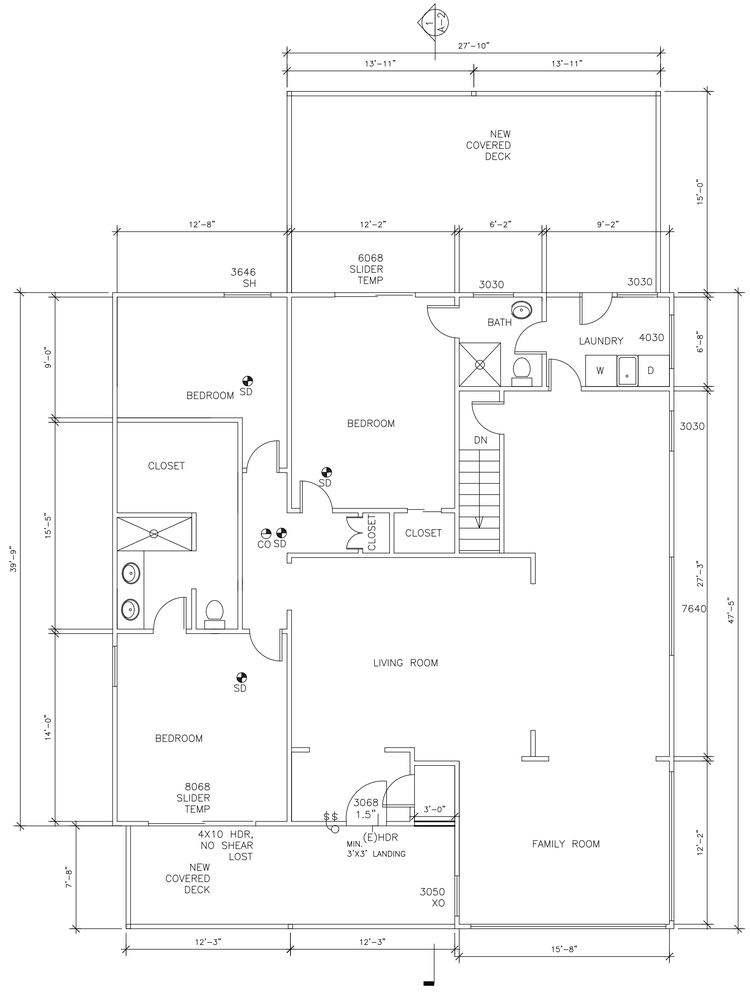
PROJECT DATA/ SITE PLAN

DESIGNED	PROJECT NO. Project Number
DRAWN Prod. Team	SCALE
CHECKED QC	DRAWING NO. A1
DATE Submittal Date	OF --



EXISTING FLOOR PLAN

3/16"=1'-0"



PROPOSED FLOOR PLAN

3/16"=1'-0"

ELECTRICAL LEGEND

ELECTRICAL OUTLET	SWITCH	HIGH EFFICACY CEILING LIGHT	FLOOD LIGHT
HALF-HOT OUTLET (SWITCHED)	3-WAY SWITCH	RECESSED LIGHT	SMOKE DETECTOR
GFI OUTLET	DIMMER SWITCH	JUNCTION BOX	CEILING FAN
TELEVISION CABLE OUTLET	WALL MOUNTED LIGHT HIGH EFFICACY	VENT FAN	FLUORESCENT FIXTURE
TELEPHONE JACK	WALL SCONCE HIGH EFFICACY	VENT FAN/ HEAT LIGHT	CARBON MONOXIDE ALARM
ETHERNET			

WALL LEGEND:

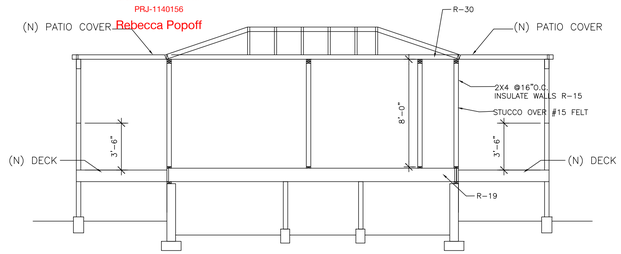
EXISTING WALL:

NEW WALL:

This set of plans and specifications shall be kept on the site of the structure of work at all times during which work authorized by these plans is in progress, and shall be made available to City officials upon request. It is unlawful to change, modify, or alter the approved plans and specifications without authorization of the Building Official. The stamping of these plans and specifications SHALL NOT be held to permit nor approve the violation of any City, County, State, or Federal laws, nor restrictions.

PERMIT ISSUED

6/9/2026, 11:47:51 AM
PRJ-1140156
Rebecca Popoff



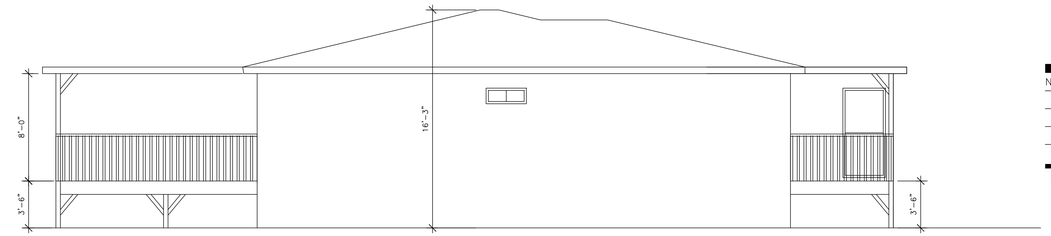
1 BUILDING SECTION

SCALE:1/4"=1'-0"



NORTH ELEVATION

3/16"=1'-0"



WEST ELEVATION

3/16"=1'-0"

PROJECT TITLE

DECK

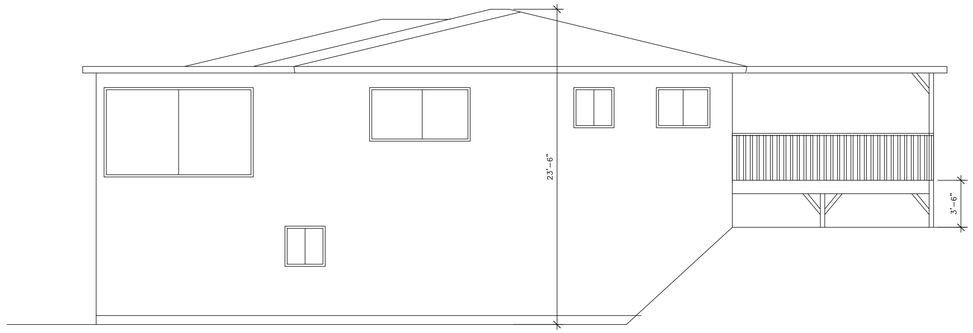
4483 Saratoga Ave, San Diego, CA 92107

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DRAWING TITLE

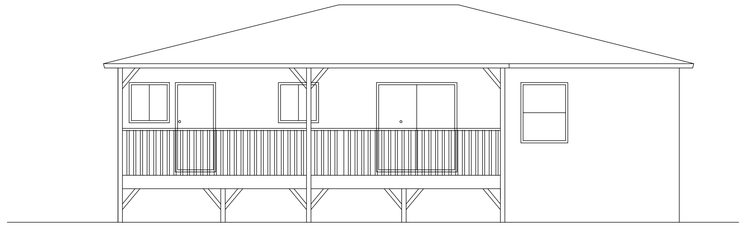
FLOOR PLANS

DESIGNED	PROJECT NO. Project Number
DRAWN Prod. Team	SCALE
CHECKED QC	DRAWING NO. A2
DATE Submittal Date	OF --



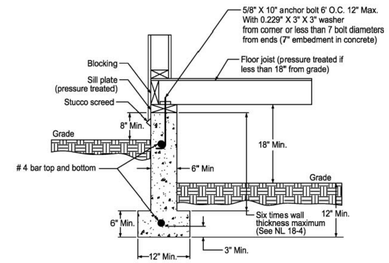
WEST ELEVATION

3/16"=1'-0"



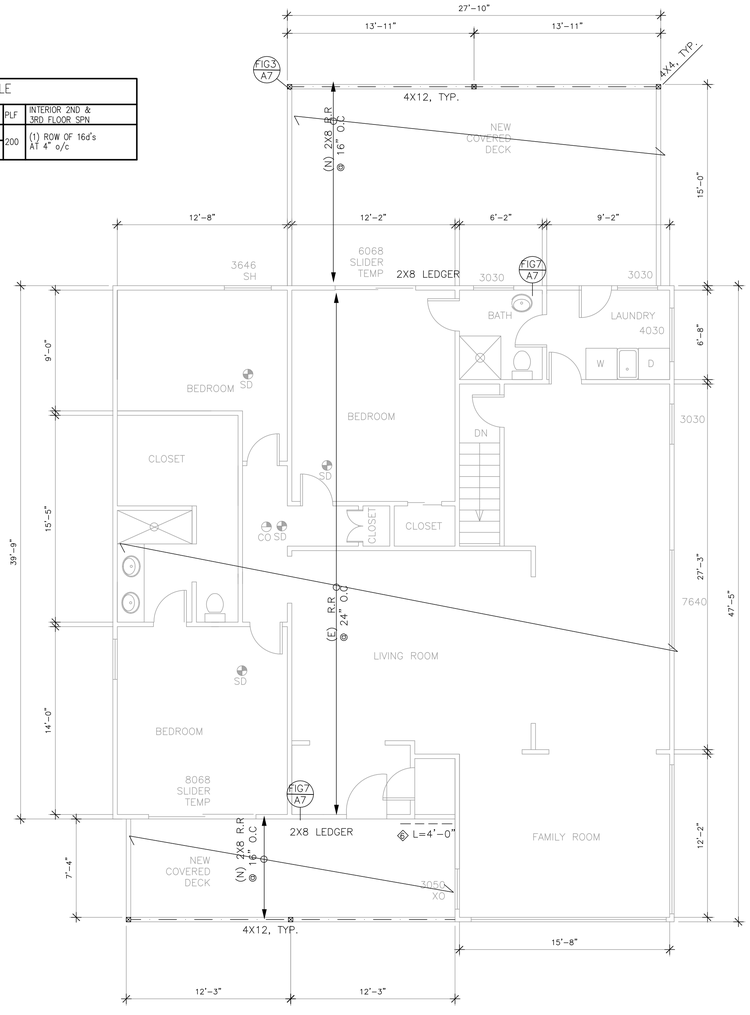
SOUTH ELEVATION

3/16"=1'-0"



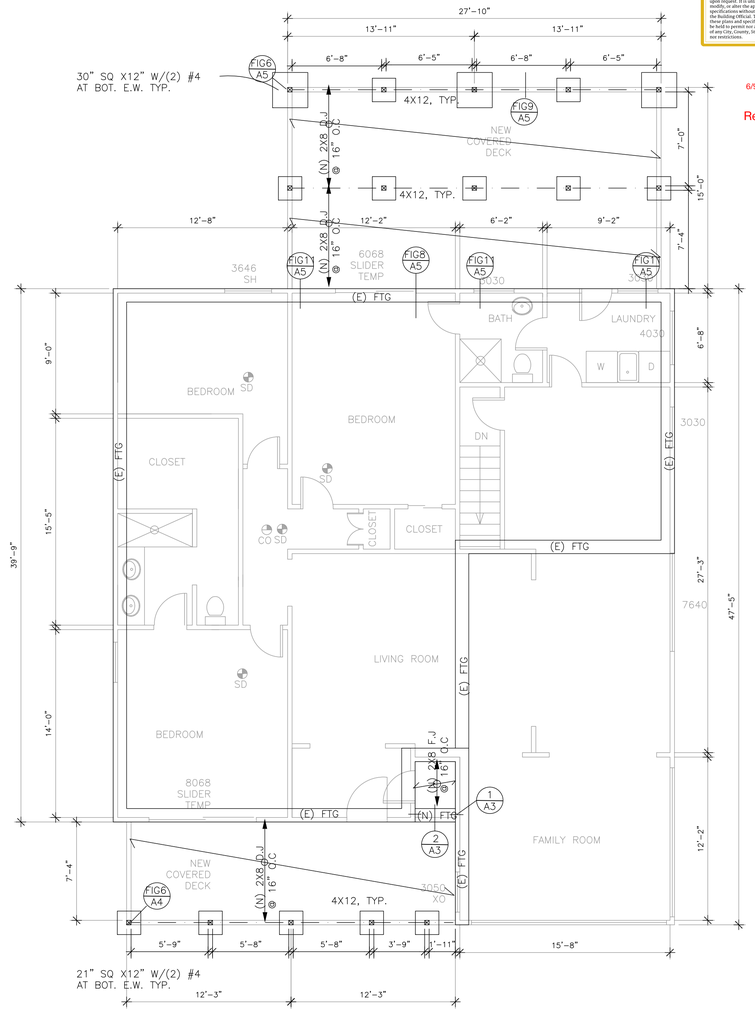
2 FOOTING DETAIL

SHEAR WALL SCHEDULE				
S.W. TYPE	DESCRIPTION	FDN. SILL PLATE & A.B. SPACING	PLF	INTERIOR 2ND & 3RD FLOOR SPN
6	3/8" WOOD STRUCTURAL PANEL W/ 8d NAILS AT 6" o/c AT EDGES AND 12" o/c AT FIELD	2x PLATE	200	(1) ROW OF 16d's AT 4" o/c
		A.B. AT 48" o/c		



FRAMING PLAN

3/16"=1'-0"



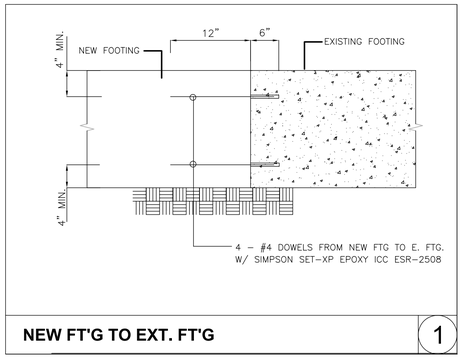
FOUNDATION PLAN

3/16"=1'-0"

This set of plans and specifications shall be kept on the site of the structure of work, and the same shall be open for inspection by authorized by these plans is in progress, and shall be made available to City officials. Any alteration, addition or deviation, modify, or alters the approved plans and specifications without authorization or approval of the City Building Official, these plans and specifications SHALL NOT be held to permit nor approve the violation of any City, County, State, or federal laws, nor restrictions.

PERMIT ISSUED

6/9/2026, 11:47:51 AM
PRJ-1140156
Rebecca Popoff



NEW FT'G TO EXT. FT'G 1

PROJECT TITLE

DECK

4483 Saratoga Ave, San Diego, CA 92107

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DRAWING TITLE

PLANS

DESIGNED	PROJECT NO. Project Number
DRAWN Prod. Team	SCALE
CHECKED QC	DRAWING NO. A3
DATE Submittal Date	OF --

TABLE A - ALLOWABLE SPAN FOR DECK JOISTS (ft. - in.) [1, 2, 3]

Species	Size	Spacing of Joists (inches)		
		12	16	24
Douglas fir – larch #2 or Redwood #1	2 x 6	6-9	6-2	5-1
	2 x 8	8-10	7-10	6-6
	2 x 10	11-2	9-7	7-10
	2 x 12	12-9	11-2	9-1

1. Live load = 60 psf, Dead load = 10 psf, L/Δ = 360.
2. If joists within 8" inches of grade, use Pressure - Treated Douglas Fir - Larch or foundation - Grade Redwood.
3. Include incising factor (Ci= 0.8)

TABLE B - CANTILEVER LENGTH FOR DECK JOISTS (ft. - in.) [1, 2, 5]

Size	Spacing (in.) [3, 4]		
	12	16	24
2x6	1-0	0-10	0-9
2x8	1-7	1-6	1-5
2x10	2-5	2-2	2-0
2x12	3-2	2-10	2-3

1. Live load = 60 psf, Dead load = 10 psf, L/Δ = 240
2. Beam cantilevers are limited to the adjacent beam's span divided by 4.
3. Joist spacing for diagonal decking shall not exceed 16 inches.
4. Cantilever span includes 220 lbs. point load applied to end.
5. Solid blocking shall be provided between joists at the support.

TABLE C - DECK BEAMS

Beam span lengths (ft.- in.) [1, 2, 3, 4, 6, 7]

Species	Size [5]	Joist span less than or equal to: [8]						
		6 ft.	8 ft.	10 ft.	12 ft.	14 ft.	16 ft.	18 ft.
Douglas Fir – Larch #2 Redwood #1	3 x 6 or 2 – 2 x 6	3-9	3-3	3-0	-	-	-	-
	3 x 8 or 2 - 2 x 8	4-9	4-3	3-9	3-5	3-2	-	-
	3 x 10 or 2 - 2 x 10	5-10	5-2	4-7	4-3	3-10	3-7	3-4
	3 x 12 or 2 - 2 x 12	6-10	5-11	5-3	4-10	4-6	4-3	4-0
	4 x 6	4-6	3-10	3-5	3-3	-	-	-
	4 x 8	5-11	5-2	4-7	4-3	3-10	3-9	3-5
	4 x 10	7-0	6-2	5-4	4-10	4-6	4-3	3-10
	4 x 12	8-2	7-1	6-4	5-8	5-3	4-10	4-7
	3 - 2 x 6	5-3	4-9	4-3	3-10	3-7	3-4	3-2
	3 - 2 x 8	6-9	6-0	5-3	5-0	4-7	4-3	4-0
	3 - 2 x 10	8-6	7-5	6-7	5-8	6-0	5-3	5-0
	3 - 2 x 12	9-10	8-6	7-8	7-0	6-5	6-0	5-8

1. Live load = 60 psf, Dead load = 10 psf, L/Δ = 360 at main span.
2. Beams supporting deck joists from one side only. See footnote (8) below for beams supporting cantilevered joists.
3. Beam depth shall be greater than or equal to depth of joists with a flush beam condition.
4. Beams within 8" of grade shall be Pressure-Treated Douglas Fir-Larch or Foundation - Grade Redwood.
5. Beams plies shall be fastened with two rows of 10d threaded nails or #10d nails at 16" on center along the edges.
6. Beams are permitted to cantilever not more than one-fourth of the span.
7. Include incising factor (Ci = 0.8)
8. Beams supporting cantilevered joists:
   To select a joist span from Table, use span length equal to joist span length + 125% of cantilevered length. (Example: joist with 12 ft. span & 3 ft. cantilevered length, calculated joist span = 12'+125% X (3') = 15.75' therefore, beam allowable span shall be based on 16' joist span).

TABLE D - DECK POST [1,2]

Post Size	Maximum Height [3]
4 x 4	4'-10" [4]
4 x 6	7'-0"
6 x 6	10'-0"
8 x8	14'-0"

1. Deck loads: Live load = 60 psf, Dead load = 10 psf
2. Species: Douglas Fir-Larch #1, or Redwood #1
3. Measured to the underside of the beam.
4. Maximum permitted height is 5'-8" when supporting one and two-ply beams.

TABLE E—SQUARE FOOTING AT POSTS (INCHES) [1]

Footing Dimensions	Tributary Area (sq. ft.) [5]							
	20	40	60	80	100	120	140	160
Width (in.)	12	18	21	25	28	30	33	35
Depth (in.)	8	8	10	10	12	12	14	16

1. Footings shall have #4 @ 12" each way at bottom.
2. Concrete strength minimum 2,500 PSI.
3. Footing sizes are based on 1,500 PSF allowable soil bearing pressure.
4. Footings shall be placed not less than 12 inches below the undisturbed ground surface.
5. Area of deck surface supported by a post and a footing.

TABLE F - NAILING SCHEDULE FOR DECKS [1, 3]

Connection	Nails or Screws (Box or Common)
Joist to Girder 2 inches nominal thickness spaced decking boards approximately 1/8" apart [2]	3-8d common nails 2-8d threaded nails or 2 #8 screws

1. Decking within 8 inches of grade shall be Pressure-Preservative treated lumber or foundation- Grade redwood.
2. Decking placement may range from an angle perpendicular to joists to an angle of 45 degrees to the joists. Each segment of decking must bear on minimum of 3 joists.
3. All fasteners and connectors shall be hot-dipped galvanized or stainless steel.

FIGURE 1 - SAMPLE DECK SITE PLAN

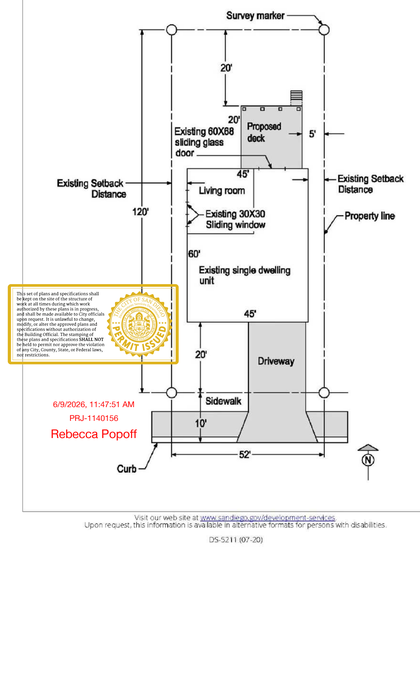


FIGURE 2 -STRUCTURES ON OR ADJACENT TO SLOPES/FOUNDATION CLEARANCE FROM SLOPES

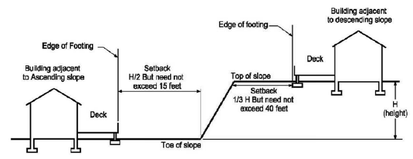
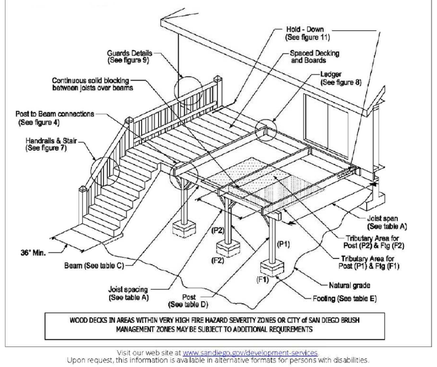


FIGURE 3 - TYPICAL DECK



WOOD DECKS IN AREAS WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONES OR CITY of SAN DIEGO BRUSH MANAGEMENT ZONES MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS

FIGURE 4 - POST-TO-GIRDER CONNECTION

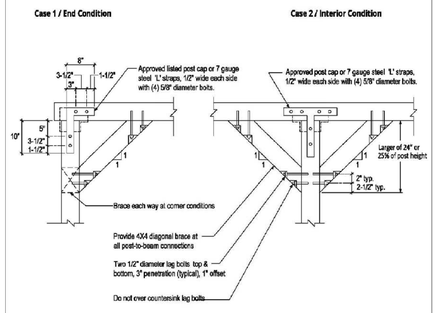
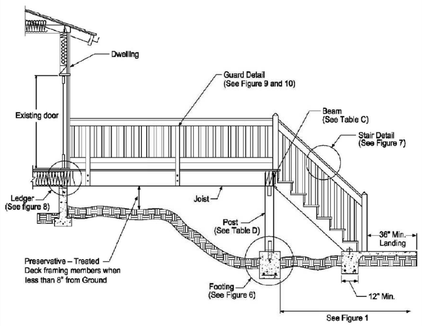


FIGURE 5 - TYPICAL DECK ELEVATION LOOKING PARALLEL TO REAR OF DWELLING



WOOD DECKS IN AREAS WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONES OR CITY of SAN DIEGO BRUSH MANAGEMENT ZONES MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS

PROJECT TITLE

DECK

4483 Saratoga Ave, San Diego, CA 92107

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DRAWING TITLE

CITY STANDARD

DESIGNED	PROJECT NO. Project Number
DRAWN Prod. Team	SCALE
CHECKED QC	DRAWING NO. A4
DATE Submittal Date	OF --

FIGURE 6 - TYPICAL FOOTING DETAIL

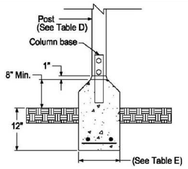
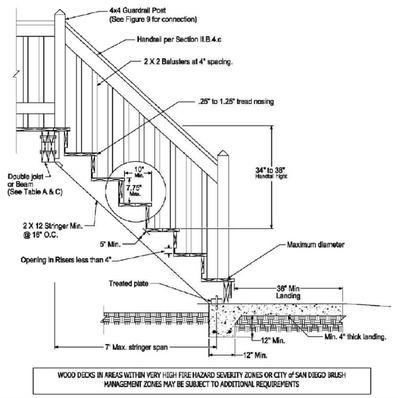


FIGURE 7 - TYPICAL STAIR DETAIL

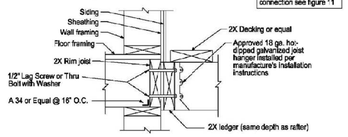


WOOD DECKS IN AREAS WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONES OR CITY of SAN DIEGO BRUSH MANAGEMENT ZONES MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS

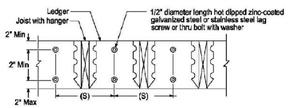
FIGURE 8 - TYPICAL LEDGER DETAIL (FOR ADDITIONAL LATERAL CONNECTION, SEE FIGURE 11)

Case 1 - Ledger to Rim Joist Connection (Attached Deck)

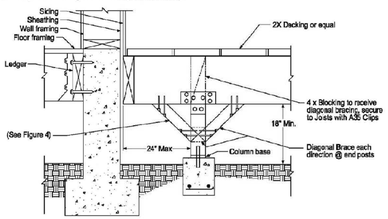
For additional lateral connection see figure 11



Joist Span (ft.)	(S) inches
8	32
10	24
14	16

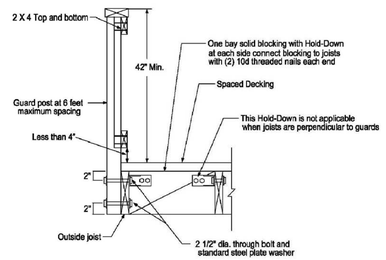


Case 2 - Rim Joist / Blocking at Stem Wall (Detached Deck)

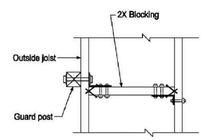


WOOD DECKS IN AREAS WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONES OR CITY of SAN DIEGO BRUSH MANAGEMENT ZONES MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS

FIGURE 9 - TYPICAL GUARD DETAILS

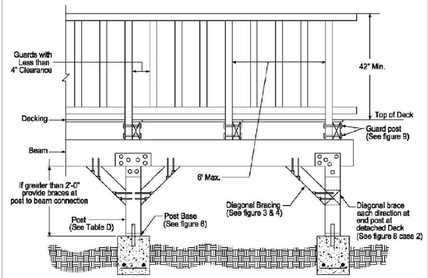


SECTION



PLAN VIEW

FIGURE 10 - TYPICAL DECK ELEVATION



This set of plans and specifications must be kept on the construction site at all times during which work authorized by these plans is in progress, and shall not be altered or changed. Minor field changes may be allowed, subject to approval by the Building Official, but only if requested by the permittee. These plans and specifications SHALL NOT be held to permit nor approve the violation of any City, County, State, or Federal laws, nor restrictions.

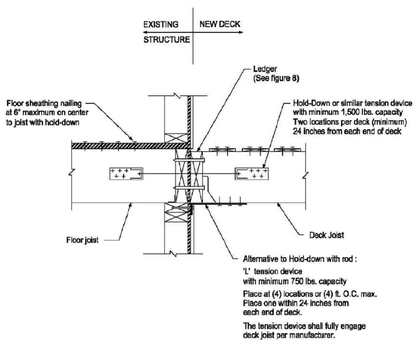
PERMIT ISSUED

6/9/2026, 11:47:51 AM
PRJ-1140156
Rebecca Popoff

WOOD DECKS IN AREAS WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONES OR CITY of SAN DIEGO BRUSH MANAGEMENT ZONES MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS

FIGURE 11 - DECK ATTACHMENT FOR LATERAL LOADS

Two locations for Hold-Downs is required. Place Hold-Downs maximum 24-inches from edge of deck



PROJECT TITLE

DECK

4483 Saratoga Ave, San Diego, CA 92107

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DRAWING TITLE

CITY STANDARD

DESIGNED	PROJECT NO. Project Number
DRAWN Prod. Team	SCALE
CHECKED QC	DRAWING NO. A 5
DATE Submittal Date	OF --

Patio Covers

INFORMATION BULLETIN
206
April 2024

View All Information Bulletins

IN THIS BULLETIN:

- Scope
- When is a Permit Required
- Submittal Requirements
- Options for Service
- Project Fees
- Construction Specifications
- Additional Regulations
- Inspections
- Tables

This Information Bulletin describes the minimum requirements for obtaining patio cover permits for residential buildings.

I. Scope

Patio covers are defined as the following:

A. One story structures not more than 12 feet in height above grade and used only for recreational outdoor living purposes, and are not used as carports, garages, storage rooms or habitable rooms.
B. Accessory structures attached detached to dwelling units such as one or two family dwellings or individual dwelling units in multiple dwelling unit buildings.
C. Accessory Structure open on two or more sides.

II. When is a Permit Required?

Patio covers that do not exceed 300 square feet of projected roof area may be exempt from a building permit in single family, duplex residential structures. Separate electrical, mechanical, and plumbing permits may still be required. Although patio covers may be exempt from a building permit, a building permit will be required, if any of the following conditions occur:

A. The patio cover is located on a site that contains environmentally sensitive lands.
B. The patio cover encroaches into any required side yards or established setbacks.
C. The property is located in the Coastal Zone or any site regulated by a Planned Residential Development (PRD) permit or Planned Infill Residential Development (PIRD) permit.
D. The patio cover is located within the boundaries of an adopted historic district. Properties determined eligible for the California or national register of historic places or properties designated by Historic Resources Board (HRB) as individually significant.

III. Submittal Requirements

Plans must be drawn to scale and must be of sufficient clarity to indicate the location, nature, and extent of the work proposed. Clearly label all existing and proposed construction. Plans must show, in detail that the proposed work will conform to the provisions of the current California Building Code (CBC), California Residential Code (CRC), Zoning Ordinances, and all other relevant laws, ordinances, rules, and regulations.

Plans shall be submitted electronically by selecting "Building Construction" from the online portal, and must include the following:

A. **Site Plan**

A site plan must be provided. For detailed information regarding how to prepare a typical site plan and vicinity map, refer to Information Bulletin 122.

B. **Foundation and Framing Plans**

Provide and upload a copy of this information bulletin or (ICC-ES) evaluation report, or IAPMO evaluation report, or an approved plan available from your material supplier used for the patio foundation and framing design.

If plans have to be submitted because of a customized design of the patio, provide and upload a copy of the plan documents. These plans should include roof framing, foundation plan, elevations, cross-sections, connection details, and structural calculations.

C. **Floor Plan**

For patio covers attached to the existing dwelling, include a floor plan and show the following information:

1. Use and dimensions of all rooms adjacent to the patio cover.
2. Size and type of all windows and doors from those rooms.

D. **Project Contact Form**

All projects shall be submitted with a Project Contact Form (DS-345).

IV. Options for Service

Permits may be obtained by Rapid Review (RR) when using this information bulletin, evaluation reports or designed using conventional light frame wood construction. When a customized design is used, plans shall be submitted for review and approval.

V. Project Fees

Plan check and administrative Fees are charged at initial review/submittal. Inspection, and issuance fees are charged at building permit issuance. For more information, refer to Information Bulletin 501.

VI. Construction Specifications

The following are the minimum construction specifications for patio covers.

A. The concrete mix for footings must meet a compressive strength of f'c= 2,500 psi minimum.
B. Lumber must be Douglas fir larch No. 2 or better. All lumber must be grade-marked. Joists, girders, and posts may be required to be protected against decay and termites.
C. Post size is based on the height of the floor above the slab (at the highest point):
   - up to 8 feet high: 4x4 minimum
   - 8 to 10 feet high: 6x6 minimum
D. The post anchorage and bracing details shown on the following sheets have been approved by the City of San Diego for open patio covers.
1. Posts must be anchored at the lower end and must be braced at the upper end using any of the details shown in Figure 3. Decorative-type bracing may be substituted if the same resistance to lateral loading is provided.
2. Post anchorage to slabs may be accomplished with a standard approved post base installed per the manufacturer's installation instructions. The footing must be adequate for the load applied. See Section IX below and Table A. When the load on each supporting post does not exceed 750 pounds, a minimum 3 1/2-inch-thick concrete slab-on-grade may be substituted for the pad footings shown on the typical framing details.

E. When it is desired to connect and support one side of the patio cover structure by attaching it directly to the dwelling unit, the rafter spacing and beam sizes may be as shown in Tables B and C. However, the main beam may be replaced on the side attached to the dwelling unit with a ledger the same size as the rafters and fastened to the studs with 3/8" x 5" lag screws spaced at 16" maximum on center. See Figure 7 and 8. Patio rafters may not be solely supported by the existing rafter tails or fascia of the house.

The size of the existing headers at openings adjoining the proposed patio covers may need to be verified based on the configuration of an existing building and the depth of the patio cover.

F. Roofing materials must be a Class A listed roof covering assembly. If nominal one-half-inch-thick roof sheathing is used, the roof may have rafters spaced not more than 24" on center. Patio covers covered with light-transmitting plastics shall comply with Sections 2606 and 2609 of the California Building Code and the manufacturer's installation instructions. The corrugations must be placed perpendicular to and across the supports. Roof system shall have a minimum slope of 1/4 inch in 12 inches for drainage.
G. Framing hardware and fasteners shall be hot-dipped galvanized or stainless steel if installed in preservative- treated wood.

VII. Additional Regulations

A. All portions of the CRC related to fire separation distance, opening protection and parapet requirements may need to be addressed, based on the distance of the patio structure from a real or assumed lot line. Such requirements include limitations on new and existing exterior wall openings of 25% of the wall area, fire protection ratings of supports and walls.
B. When existing wall openings are required for light and/or ventilation within the dwelling unit wall and they open into a patio cover, the minimum ceiling height of the patio cover structure shall be 7'-0" measured from the floor surface to the underside of the rafters. When no required openings exist in the common wall, the minimum clear height for the patio cover may be 6'-8".

This set of plans and specifications shall be kept on the site during construction and shall be made available for inspection by authorized by these plans. Any changes, modifications, or alterations to these plans and specifications SHALL NOT be held to permit nor approve violations of any City, County, State, or Federal law or ordinance restrictions.

6/9/2025 PRJ-1140156

VIII. Inspections

For detailed information regarding inspections, refer to Information Bulletin 120.

IX. Tables

Tables A, B, and C make the following assumptions:

- Roof live load is 10 psf.
- Roof dead load is 7 psf.

All lumber is to be Douglas fir-larch No. 2 or better (repetitive member use):

- F b = 900 psi
- F v = 180 psi
- E = 1,600,000 psi

Soil bearing pressure is 1,500 psf maximum.

If the above information differs, values in the tables must be adjusted.

Table A / Minimum Square Footing Sizes (Inches)*

Post Spacing (Feet)	Rafter Span (Feet)[1, 2] 6	8	10	12	14	16	18	20
4	S	S	S	S	S	S	S	S
6	S	S	S	S	S	S	S	S
8	12	12	12	12	12	14	14	14
10	12	12	12	14	14	14	16	16
12	12	12	14	14	16	16	18	18
14	12	12	14	16	16	18	18	20
16	12	14	14	16	18	18	20	20
18	12	14	16	18	18	20	20	22
20	14	14	16	18	20	20	22	24

*See dimension "A" on "Figure 5"

1 "S" Patio supported on a concrete slab on grade without footings
2 Assume reinforcing bar size #4 top and bottom, rebar yield Fy=60ksi

Table B / Minimum Rafter Sizes (Inches)

Rafter Span (Feet)	Rafter Spacing Center-to-Center (Inches)[1, 2] 12 (5/16"plywood sheathing)	16 (11/32" plywood sheathing)	24 (1/2" plywood sheathing)	32 (5/8"plywood sheathing)
6	2x4	2x4	2x4	2x4
7	2x4	2x4	2x4	2x4
8	2x4	2x4	2x6	2x6
9	2x4	2x6	2x6	2x6
10	2x6	2x6	2x6	2x6
11	2x6	2x6	2x6	2x6
12	2x6	2x6	2x6	2x8
13	2x6	2x6	2x8	2x8
14	2x6	2x6	2x8	2x8
15	2x6	2x8	2x8	2x10
16	2x8	2x8	2x8	2x10
17	2x8	2x8	2x10	2x10
18	2x8	2x8	2x10	2x10
19	2x8	2x10	2x10	2x12
20	2x8	2x10	2x10	2x12

[1] Deflection based on L/360 (LL only)
[2] Load Duration Factor = 1.25.

Table C / Minimum Beam Sizes (Inches)

Post Spacing (In Feet)	Rafter Span (In Feet)[1, 2, 3] 4	6	8	10	12	14	16	18	20
4	4x4	4x4	4x4	4x4	4x4	4x4	4x4	4x4	4x6
6	4x4	4x4	4x4	4x4	4x4	4x4	4x4	4x4	4x6
8	4x4	4x4	4x6	4x6	4x6	4x6	4x6	4x6	4x6
10	4x4	4x6	4x6	4x6	4x6	4x6	4x8	4x8	4x8
12	4x6	4x6	4x6	4x8	4x8	4x8	4x8	4x8	4x10
						6x8	6x8	6x8	6x8
14	4x6	4x8	4x8	4x8	4x8	4x8	4x10	4x10	4x10
				6x8	6x8	6x8	6x10	6x10	6x10
16	4x8	4x8	4x8	4x10	4x10	4x10	4x12	4x12	4x14
		6x8	6x8	6x8	6x8	6x10	6x10	6x10	6x10
18	4x8	4x8	4x10	4x10	4x10	4x12	4x12	4x14	4x14
		6x8	6x8	6x8	6x10	6x10	6x10	6x12	6x12
20	4x8	4x10	4x10	4x12	4x12	4x14	4x14		
	6x8	6x8	6x10	6x10	6x10	6x12	6x12	6x12	6x14

[1] If joists are within 18 inches on grade, use pressure-treated douglas fir-larch or foundation -grade redwood.
[2] Deflection base on L/360 (LL only)
* Load Duration Factor = 1

PROJECT TITLE

DECK

4483 Saratoga Ave, San Diego, CA 92107

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DRAWING TITLE

CITY STANDARD

DESIGNED	PROJECT NO. Project Number
DRAWN Prod. Team	SCALE
CHECKED QC	DRAWING NO. A 6
DATE Submittal Date	OF --

Figure 1 / Sample Patio Site Plan

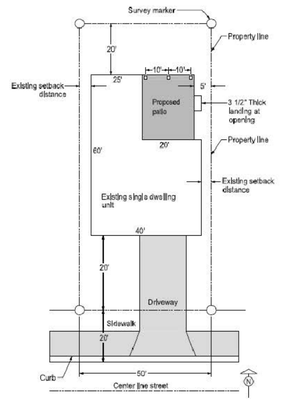
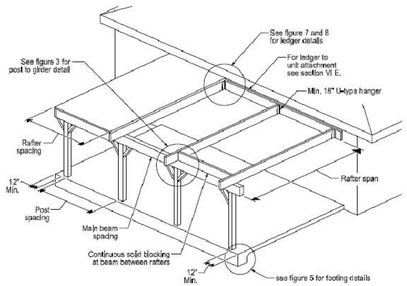


Figure 2 / Typical Patio



WOOD PATIO COVERS IN AREAS WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONES OR CITY of SAN DIEGO BRUSH MANAGEMENT ZONES MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS

Figure 3 / Post-to-Girder Connection

Case 1 / Connection, Interior Condition

Case 2 / Interior Condition

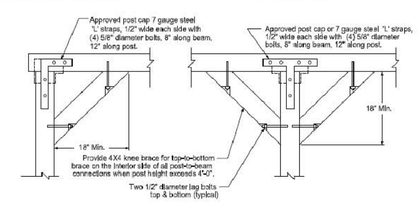
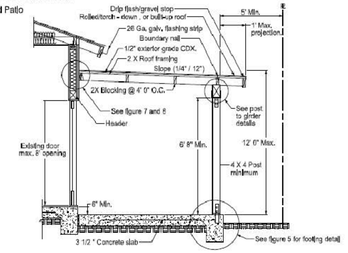
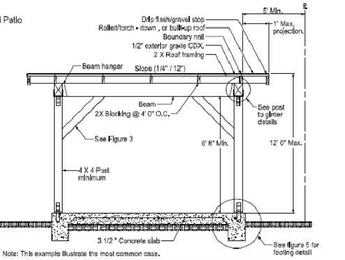


Figure 4 / Section View of Patio

A / Attached Patio



B / Detached Patio

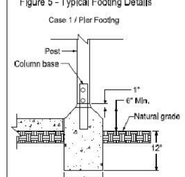


Note: This example illustrate the most common case.

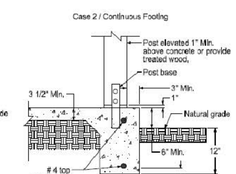
WOOD PATIO COVERS IN AREAS WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONES OR CITY of SAN DIEGO BRUSH MANAGEMENT ZONES MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS

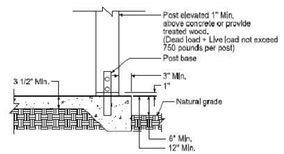
Figure 5 - Typical Footing Details

Case 1 / Pier Footing



Case 2 / Continuous Footing





This set of plans and specifications shall be kept on the site of the structure of the work and shall be made available to authorized by these plans is in progress, and shall be made available to City officials whenever requested. After permit is issued, no alter the approved plans and specifications without authorization of the Building Official. The approval of these plans and specifications SHALL NOT be held to permit nor approve the violation of any City, County, State, or federal laws, nor restrictions.

PERMIT ISSUED

6/9/2026, 11:47:51 AM
PRJ-1140156
Rebecca Popoff

Figure 6 / Typical Eave Detail



WOOD CARPORTS IN AREAS WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONES OR CITY of SAN DIEGO BRUSH MANAGEMENT ZONES MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS

Figure 7 / Typical Rafter Attachment Details

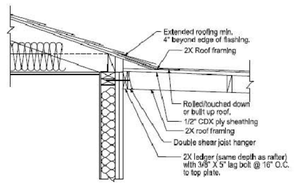
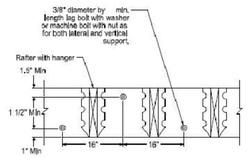


Figure 8 - Typical Ledger Details



WOOD PATIO COVERS IN AREAS WITHIN VERY HIGH FIRE HAZARD SEVERITY ZONES OR CITY of SAN DIEGO BRUSH MANAGEMENT ZONES MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS

PROJECT TITLE

DECK

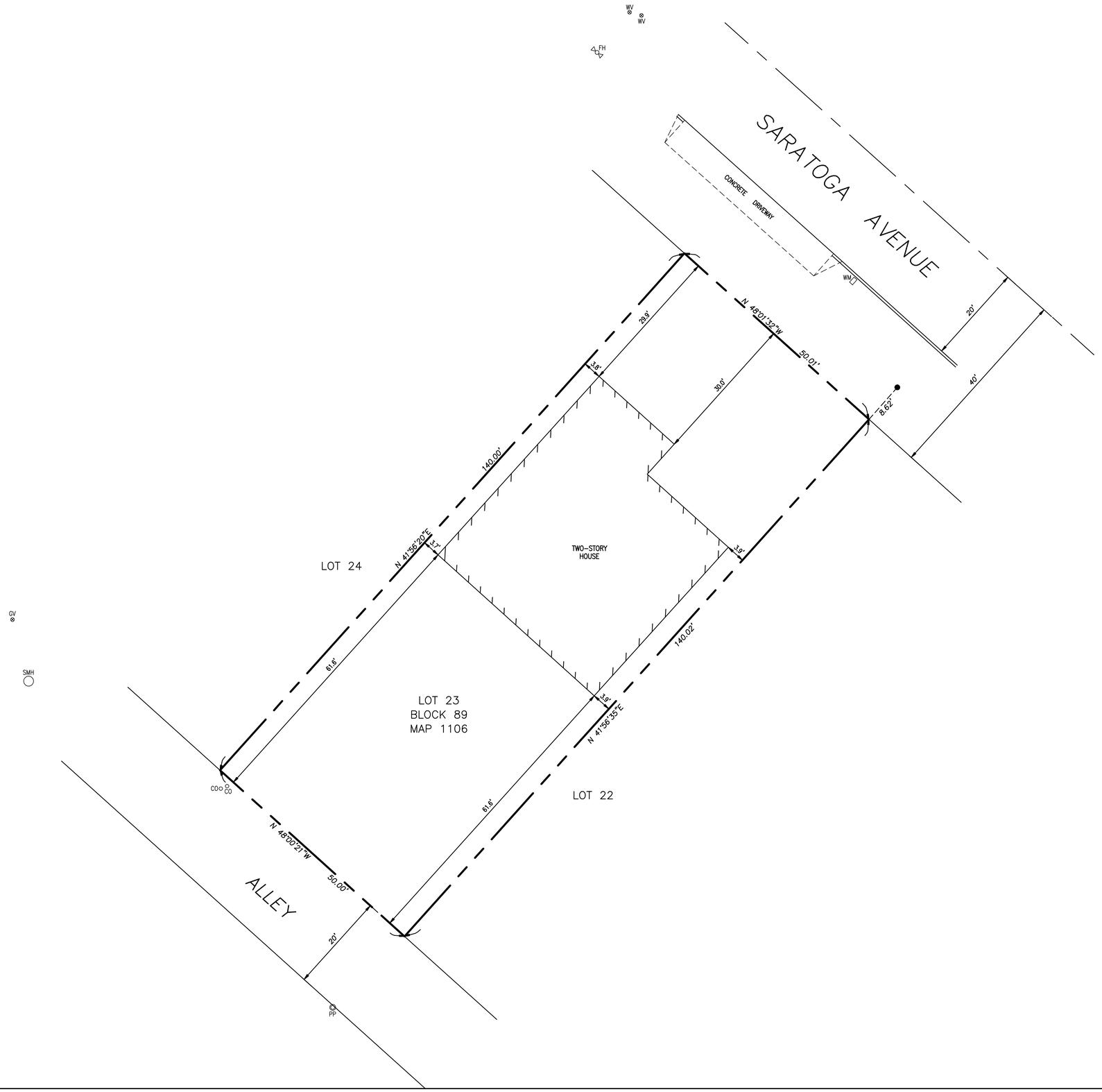
4483 Saratoga Ave, San Diego, CA 92107

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DRAWING TITLE

CITY STANDARD

DESIGNED	PROJECT NO. Project Number
DRAWN Prod. Team	SCALE
CHECKED QC	DRAWING NO. A-7
DATE Submittal Date	OF --



This set of plans and specifications shall be kept on the site of the structure of work at all times during which work authorized by these plans is in progress, and shall be made available to City officials upon request. It is unlawful to change, modify, or alter the approved plans and specifications without authorization of the Building Official. The stamping of these plans and specifications SHALL NOT be held to permit nor approve the violation of any City, County, State, or Federal laws, nor restrictions.

PERMIT ISSUED

6/9/2026, 11:47:51 AM
PRJ-1140156
Rebecca Popoff

0 5 10 20 30
1 INCH = 10 FEET
GRAPHIC SCALE

LEGEND AND ABBREVIATIONS

----	PROPERTY LINE
●	FOUND LEAD & DISK "RE 4847"
CO	SEWER CLEANOUT
CONC	CONCRETE
FH	FIRE HYDRANT
GV	GAS VALVE
PP	POWER POLE
SMH	SEWER MANHOLE
WM	WATER METER
WV	WATER VALVE

GENERAL NOTES

1.) BOUNDARY SHOWN HEREON IS PER A FIELD SURVEY AND RECORD DATA PER MAP NO. 1106 AND CORNER RECORD NO. 38257.

2.) ASSESSOR'S PARCEL NUMBER: 448-761-02.

3.) LOT AREA = 7,001 SQUARE FEET / 0.161 ACRE.

LICENSED LAND SURVEYOR
CHRIS D. CIREMELE
NO.5267
STATE OF CALIFORNIA

NO.	REVISIONS DESCRIPTION	DATE	APP'D

CIREMELE SURVEYING INC.
164 S. ESCONDIDO BLVD.
ESCONDIDO, CA. 92025
(760) 489-2200
CIRSURVEY@SBCGLOBAL.NET

J.N. 25-181

DATE: 10/29/25
SCALE: 1"=10'
DRAWN: DRK
CHECKED: CC

SHEET TITLE: SITE PLAN

PROJECT: 4483 SARATOGA AVENUE
SAN DIEGO, CA 92107

SHEET NO. 1 OF 1

CERTIFICATE OF COMPLIANCE

This compliance document is only applicable to additions less than or equal to 1,000 square feet (ft2)and do not require HERS field verification for compliance. When HERS verification is required, a CF1R-ADD-01 shall first be registered with a HERS Provider Data Registry.

Alterations to Space Conditioning Systems that are exempt from HERS verification requirements may use the CF1R-ADD-02 and CF2R-ADD-02 compliance documents. Possible exemptions from duct leakage testing include: less than 25 feet (ft) of ducts were added or replaced; or the existing duct system was insulated with asbestos; or the existing duct system was previously tested and passed by a HERS Rater. If space conditioning systems are altered and are not exempt from HERS verification, then a CF1R-ADD-01 and CF1R-ALT-02 must be completed and registered with a HERS Provider Data Registry.

Additions or alterations that utilize closed cell Spray Polyurethane Foam (ccSPF) with a density of 1.5 to less than 2.5 pounds per cubic foot having an R-value greater than 5.8 per inch, or open cell Spray Polyurethane Foam (ocSPF) with a density of 0.4 to less than 1.5 pounds per cubic foot having an R-value of 3.6 per inch, shall complete and register a CF1R ADD-01 with a HERS Provider Data Registry.

If more than one person has responsibility for installation of the items on this certificate, each person shall prepare and sign a certificate applicable to the portion of construction for which they are responsible. Alternatively, the person with chief responsibility for construction shall prepare and sign this certificate for the entire construction. All applicable Mandatory Measures shall be met. Temporary labels shall not be removed before verification by the building inspector.

Project Details

Field Name	Data Entry	Field Name	Data Entry
Project Name:	addition	Enforcement Agency:	
Dwelling Address:	4483 SARATOGA AVE	Permit Number:	
City and Zip Code:	SAN DIEGO, CA 92107	Date Permit Issued:	

D. Opaque Surface Details – Mass Walls (Section 150.1(c)1Bii)

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Tag/ID			
02	Above Grade/Below Grade			
03	Mass Type			
04	Mass Thickness			
05	**Proposed** *Joint Appendix JA4 Reference* Table			
06	**Proposed** *Joint Appendix JA4 Reference* Cell			
07	**Proposed** *Interior* Furring Strip Thickness			
08	**Proposed** *Interior* Insulation R-value			
09	**Proposed** *Exterior* Furring Strip Thickness			
10	**Proposed** *Exterior* Insulation R-value			
11	**Proposed** *Joint Appendix JA4 Reference* Table			
12	**Proposed** *Joint Appendix JA4 Reference* Cell			
13	**Proposed** Total Assembly U-factor			
14	**Required** Interior R-value			
15	**Required** Exterior R-value			
16	**Required** Total Assembly U-factor			

A. GENERAL INFORMATION

Field	Field Name	Data Entry
01	Project Name:	addition
02	Date Prepared:	2/3/25
03	Project Location:	4483 SARATOGA AVE
04	Building Front Orientation (deg):	0
05	CA City:	san diego
06	Number of Dwelling Units with Additions:	1
07	Zip Code:	92107
08	Fuel Type:	gas
09	Climate Zone:	7
10	Total Conditioned Floor Area (ft^2) (Addition):	13.5
11	Building Type:	house
12	Slab Area (ft^2):	
13	Project Scope:	addition
14	Exceptions to Fenestration U-factor and SHGC 150.1(c)3A:	

E. Slab Insulation (Table 150.1-A or Table 150.1-B)

Note: Heated slab floors require mandatory slab insulation (see Table 110.8-A).

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Floor Type	slab		
02	**Proposed** Insulation R-value	0		
03	**Proposed** Insulation U-factor			
04	**Required** Insulation R-value	0		
05	**Required** Insulation U-factor			
06	Comments			

F. Radiant Barrier (Section 150.1(c)2)

A radiant barrier is required (for Climate Zones 2-15)

- Radiant barriers shall meet specific eligibility and installation criteria to receive credit for compliance with the Building Energy Efficiency Standards for low-rise residential buildings. Refer to Reference Appendices, Residential Appendix, RA4.2.1
- The emittance of the radiant barrier shall be less than or equal to 0.05 as tested in accordance with American Society for Testing and Materials (ASTM) C1371 or ASTM E408.

For Prescriptive Compliance the attic shall be ventilated to provide a minimum free ventilation area of not less than 1 square foot (ft^2) of vent area for each 300 square feet (ft^2) of attic floor area with a minimum of 40 percent to no more than 50 percent upper vents. Ridge vents or gable end vents are recommended to achieve the best performance. The material should be cut to allow for full airflow to the venting.

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Radiant Barrier installed below the roof deck and on all gable end walls	yes		
02	Comments			

B. Opaque Surface Details – Framed (Section 150.2(a) and 150.1(c)1)

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Tag/ID			
02	Assembly Type	wall	roof	floor
03	Frame Type	wood	wood	wood
04	Frame Depth (inches)	2x4	2x6	2x6
05	Frame Spacing (inches)	16	24	16
06a	**Proposed** Cavity R-value	r15	r30	r19
06b	**Proposed** Continuous Insulation R-value			
07	**Proposed** U-Factor			
08	**Proposed** *Joint Appendix JA4 Reference* Table			
09	**Proposed** *Joint Appendix JA4 Reference* Cell			
10	**Required** U-Factor from Table 150.1-A			
11	Comments			

This set of plans and specifications shall be kept on the site of the structure of the work authorized by them plans is in progress, and shall be made available to City officials for inspection. The issuance of a permit, or approval of plans and specifications shall not be held to permit nor approve the violation of any City, County, State, or Federal laws, nor restrictions.
PERMIT ISSUED
6/9/2026, 11:47:51 AM
PRJ-1140156
Rebecca Popoff

C. Opaque Surface Details – Nonframed Walls (Section 150.1(c)1)

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Tag/ID			
02	Assembly Type			
03	Assembly Materials			
04	Thickness (inches)			
05	**Proposed** Core Insulation R-value			
06	**Proposed** Continuous Insulation R-value			
07	**Proposed** U-Factor			
08	**Proposed** *Joint Appendix JA4 Reference* Table			
09	**Proposed** *Joint Appendix JA4 Reference* Cell			
10	**Required** U-Factor from Table 150.1-A			
11	Comments			

G. Roofing Products (Cool Roof) (Section 150.1(c)11)

Notes:

- Exception 1: Any roof area covered by building integrated photovoltaic (PV) panels and solar thermal panels are exempt from the above Cool Roof requirements.
- Exception 2: Roof constructions with weight of 25 pounds per square foot (lb/ft^2) are also exempt.
- Liquid field applied coatings must comply with installation criteria from Section 110.8(i)4.

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Exception	2		
02	Roof Pitch			
03	Method of Compliance			
04	Product Type			
05	CRRC Product ID Number			
06	**Proposed** Initial Solar Reflectance			
07	**Proposed** Aged Solar Reflectance			
08	**Proposed** Thermal Emittance			
09	**Proposed** SRI (Optional)			
10	**Required** Aged Solar Reflectance			
11	**Required** Thermal Emittance			
12	**Required** SRI (Optional)			

H. Fenestration/Glazing Allowed Areas and Efficiencies (Section 150.2(a)1)

Table H-1

Field	Field Name	Data Entry 1
01	Addition Type ft^2	13.5

Table H-2: Maximum Allowed Fenestration Area for All Orientations ft^2 – The Greater of:

Field	Field Name	Data Entry
02	Maximum Calculated based on Allowed %	4
03	Maximum Calculated Allowed ft^2	75

Table H-3: Maximum Allowed West-Facing Fenestration Area Only ft^2 – The Greater of:

Field	Field Name	Data Entry
04	Maximum Calculated based on Allowed %	1
05	Maximum Calculated Allowed ft^2	60

Table H-4

Field	Field Name	Data Entry 1
06	Maximum Allowed U-factor (Windows)	0.3
07	Maximum Allowed U-factor (Skylights)	
08	Maximum Allowed SHGC (Windows)	0.23
09	Maximum Allowed SHGC (Skylights)	
10	Comments	

I. Fenestration Proposed Areas and Efficiencies

Note: If meeting Exception 1 to 150.1(c)3A, installing less than or equal to 3 square feet (ft²) glass in door, or less than or equal to 3 square feet (ft²) tubular skylight, it is assumed to meet the minimum required U-factor (0.30) & SHGC (0.23).

If meeting Exception 2 to 150.1(c)3A, installing less than or equal to 16 square feet (ft²) of new skylights, it is assumed to meet the minimum required U-factor (0.55) & SHGC (0.30).

Doors with greater than or equal to 25 percent glazing area are considered glazed doors and are treated as fenestration products.

Table I-1

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Tag/ID			
02	Fenestration Type	slider		
03	Frame Type	vinyl		
04	Dynamic Glazing			
05	Orientation N, S, W, E	n		
06	Number of Panes	dual		
07	Proposed Fenestration Area (ft²) (N, S, E)	53		
08	Proposed West Facing Fenestration Area (ft²)			
09	Proposed U-factor	0.3		
10	Proposed U-factor Source			
11	Proposed SHGC	0.23		
12	Proposed SHGC Source			
13	Exterior Shading Device			
14	Combined SHGC from CF1R-ENV-03			

Table I-2

Field	Field Name	Data Entry
15	Total Proposed Fenestration Area	53
16	Maximum Allowed Fenestration Area	75
17	**Compliance Statement:** Total Proposed Fenestration Area ≤ Maximum Allowed Fenestration Area	(•) Yes ( ) No
18	Total Proposed West-Facing Fenestration Area	0
19	Maximum Allowed West-Facing Fenestration Area	60
20	**Compliance Statement:** Total Proposed West-Facing Fenestration Area ≤ Maximum Allowed West-Facing Fenestration Area	(•) Yes ( ) No
21	Proposed Fenestration U-factor (Windows)	0.3
22	Required Fenestration U-factor (Windows)	0.3
23	**Compliance Statement:** Proposed Fenestration U-factor ≤ Required Fenestration U-factor	(•) Yes ( ) No
24	Proposed Fenestration SHGC (Windows)	0.23
25	Required Fenestration SHGC (Windows)	0.23
26	**Compliance Statement:** Proposed Fenestration SHGC ≤ Required Fenestration SHGC	(•) Yes ( ) No
27	Proposed Fenestration U-factor (Skylights)	
28	Required Fenestration U-factor (Skylights)	
29	**Compliance Statement:** Proposed Fenestration U-factor ≤ Required Fenestration U-factor	( ) Yes ( ) No
30	Proposed Fenestration SHGC (Skylights)	
31	Required Fenestration SHGC (Skylights)	
32	**Compliance Statement:** Proposed Fenestration SHGC ≤ Required Fenestration SHGC	( ) Yes ( ) No

J. Opaque Swinging Doors to Exterior (Section 150.1(c)5)

Notes:

- Any door with 25 percent or more glass is considered a glazed door and is counted as a fenestration product in Tables H and I.
- Do not include fire-rated doors between garage or unconditioned space, and conditioned space.
- If using weighted average to achieve required maximum U-factor, attach CF1R-ENV-02-E.

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Tag/ID			
02	Area			
03	Proposed U-factor			
04	Proposed U-factor Source			
05	Required Maximum U-factor			
06	Weighted Average (Yes/No)	( ) Yes ( ) No	( ) Yes ( ) No	( ) Yes ( ) No
07	Comments			

This set of plans and specifications shall be kept on the site of the structure of which it is a part during the time it is authorized by these plans is in progress, and shall be made available to City officials for inspection. It is unlawful to change, modify, or alter the approved plans and specifications without authorization or approval of the City. Approval of these plans and specifications SHALL NOT be held to permit nor approve the violation of any City, County, State, or Federal laws, nor restrictions.
PERMIT ISSUED
6/9/2026, 11:47:51 AM
PRJ-1140156
Rebecca Popoff

K. Space Conditioning (SC) Systems – Heating/Cooling (Section 150.2(b))

Alterations to space conditioning systems shall be exempt from HERS verification requirements as prerequisite for use of the CF1R-ADD-02 and CF2R-ADD-02 compliance documents. If new space conditioning systems are installed or existing systems are altered and are not exempt from HERS verification, then a CF1R-ADD-01 and CF1R-ALT-02 shall be completed and registered with a HERS Provider Data Registry. In each row below for each dwelling unit in the building, check the box that indicates the exemption from HERS verification compliance:

( ) a: space conditioning system was not altered;
( ) b: less than 25 feet (ft) of ducts were added or replaced;
( ) c: (exempt from duct leakage testing) if: the existing duct system was insulated with asbestos;
( ) d: (exempt from duct leakage testing) if: the existing duct system was previously tested and passed by a HERS Rater.

01	02	03
SC System Identification or Name	SC System Location or Area Served	Exemption from HERS Verification
(e) HEATER		(•) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d
		( ) a ( ) b ( ) c ( ) d

L. Water Heating Systems (Section 150.2(a)1D)

List water heaters and boilers for both domestic hot water (DHW) heaters and hydronic space heating.

Options:

1. A single heat pump water heater. The storage tank shall not be located outdoors and shall be placed on an incompressible, rigid insulated surface with a minimum thermal resistance of R-10. The water heater shall be installed with a communication interface that meets either the requirements of Section 110.12(a) or has an ANSI/CTA-2045-B communication port; or
2. A single heat pump water heater that meets the requirements of NEEA Advanced Water Heater Specification Tier 3 or higher; or
3. A gas or propane instantaneous water heater with an input of 200,000 Btu per hour or less and no storage tank; or
4. For addition that are 500 square feet or less, an instantaneous electric water heater with point of use distribution as specified in the Reference Appendices, Residential Appendix, RA4.4.5

Field	Field Name	Data Entry 1	Data Entry 2	Data Entry 3
01	Water Heating System ID or Name	(e) water heater		
02	Water Heating System Type			
03	System Option (from §150.2(a)1D)			
04	# of Water Heaters/ Compressors in System			
05	Water Heater Type			
06	Fuel Type	gas		
07	Rated Input			
08	Tank Location			
09	Distribution Type			

Documentation Author's Declaration Statement

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

Documentation Author Name: ray huang	Documentation Author Signature: ray huang
Company: ray drafting	Signature Date: 2/3/25
Address: 1619 golden gate ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: chula vista, CA< 91913	Phone: 858-380-6125

Responsible Person's Declaration Statement

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections.

I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: ray huang	Responsible Designer Signature: ray huang
Company: ray drafting	Date Signed: 2/3/25
Address: 1619 golden gate ave	License:
City/State/Zip: chula vista, CA< 91913	Phone: 858-380-6125

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300