### BMP TABLE

TOTAL DISTURBANCE AREA: EXISTING AMOUNT OF IMPERVIOUS AREA: PROPOSED AMOUNT OF IMPERVIOUS AREA: TOTAL IMPERVIOUS AREA:

0.00 S.F.	
3,000 S.F.	
0.00 S.F.	
3,000 S.F.	

IMPERVIOUS AREA SHALL INCLUDE: ROOF, SIDEWALK. PARKING AREA, WALKWAYS, POOLS, POOL DECK ETC.

NO WORK WILL BE PERFORMED IN THE RIGHT OF WAY.

## GRADING TABLE

EARTHWORK QUANTITIES TABLE	
CUT QUANTITY:	0 C.Y.
FILL QUANTITY:	0.0 C.Y.
EXPORT:	0.0 C.Y.
MAX. CUT DEPTH:	0 C.Y.
MAX. FILL DEPTH:	0
THE PROJECT PROPOSES TO EXPORT 0 C SITE. ALL EXPORT MATERIAL SHALL BE DI DISPOSAL SITE. THE APPROVAL OF THIS F PROCESSING AND SALE OF THE MATERIA REQUIRE A SEPARATE CONDITIONAL USE	SCHARGED TO A LEGAL PROJECT DOES NOT ALLOW L, ALL SUCH ACTIVITIES

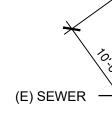
NOTE: IMPERVIOUS AREA SHALL INCLUDE: ROOF, SIDEWALK, PARKING AREA, WALKWAYS, POOLS, POOL DECKS ETC.

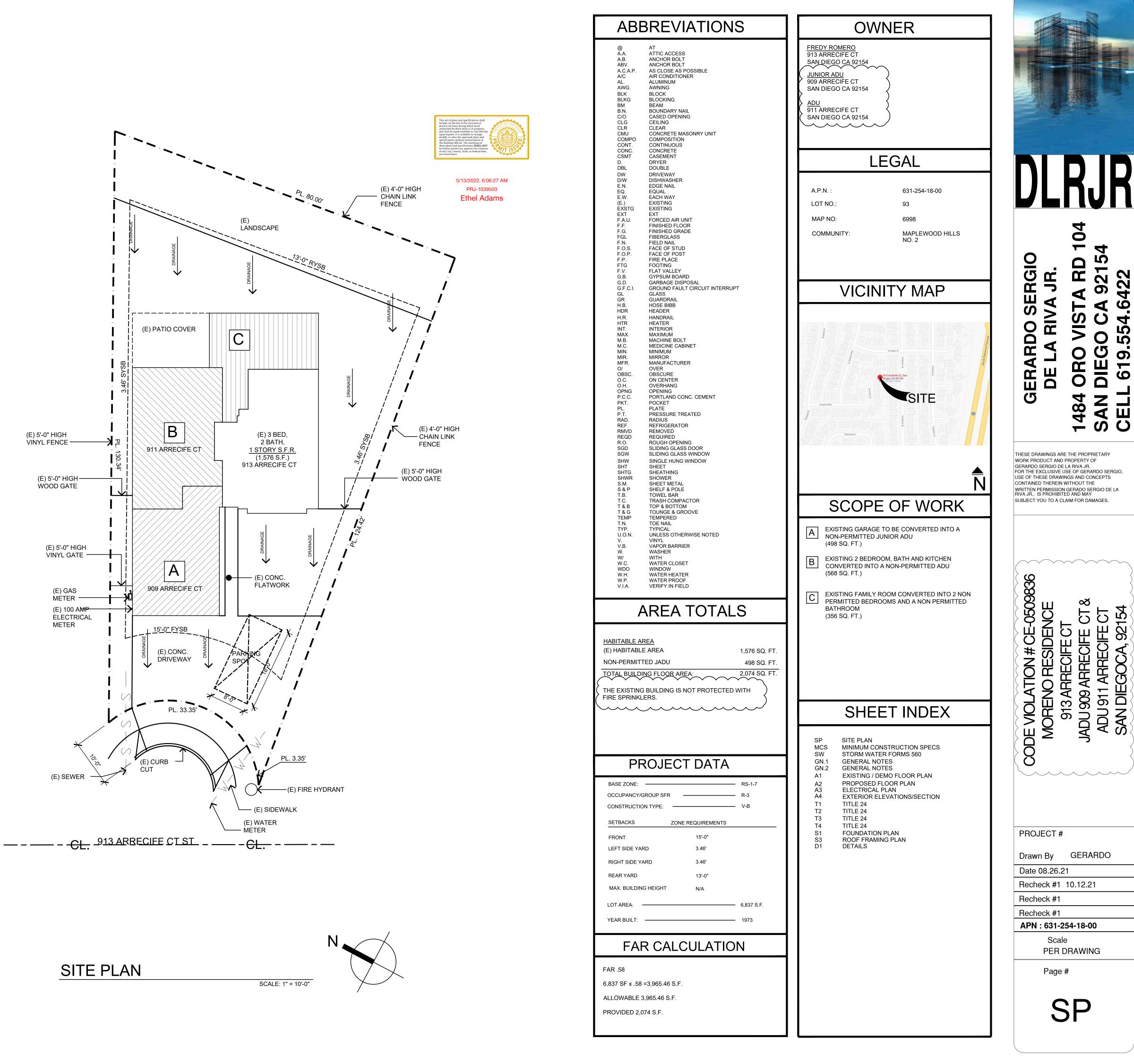
> (E) 5'-0" HIGH VINYL FENCE -

> > (E) 5'-0" HIGH-WOOD GATE

> > > (E) 5'-0" HIGH VINYL GATE -

> > > > (E) GAS METER -(E) 100 A<del>MP</del> ELECTRICAL METER





### A. General Applicable codes. All projects shall comply with the 2019 California Building Code (CBC) and/or California Residential Code (CRC), 2019 California Green Building Standards Code (CalGreen), 2019 California Electrical Code (CEC), 2019 California Mechanical Code (CMC), 2019 California Plumbing Code (CPC), 2019 California Fire Code (CFC), 2019 California Building Energy Efficiency Standards (CBEES), and all County of San Diego amendments.

### A. Electrical, Plumbing, and Mechanical

- Exterior lighting. All projects shall comply with the County of San Diego lighting ordinance
- GFCI outlets. Ground Fault Circuit Interrupter (GFCI) outlets are required in bathrooms. at kitchen countertops, at laundry and wet bar sinks, in garages, in crawlspaces, in unfinished basements, and outdoors. (CEC 210.8)
- **AFCI outlets.** Electrical circuits in bedrooms, living rooms, dining rooms, dens, closets, hallways, or similar rooms must be protected by Arc Fault Circuit Interrupters (AFCI). (CEC 210.12)
- Luminaire requirements. Installed luminaires shall meet the efficacy and fixture requirements of CBEES 150.0(k)
- Smoke detectors in building remodels. Smoke detectors are required in each existing 1. Fastener requirements. The number, size, and spacing of fasteners connecting wood sleeping room, outside each separate sleeping area in the immediate vicinity of sleeping rooms, and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not **2.** Stud size, height, and spacing. The size, height, and spacing of studs shall be in resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R314.3)
- Carbon monoxide detectors in building remodels. Carbon monoxide detectors are required outside each separate sleeping area in the immediate vicinity of sleeping rooms and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R315.3)
- Water heater seismic strapping. Minimum two 3/4-inch-by-24-gauge straps required around water heaters, with 1/4-inch-by-3-inch lag bolts attached directly to framing. Straps shall be at points within upper third and lower third of water heater vertical dimension. Lower connection shall occur minimum 4 inches above controls. (CPC 507.2)
- Gas appliances in garages. Water heaters and heating/cooling equipment capable of igniting flammable vapors shall be placed on minimum 18-inch-high platform unless listing report number provided showing ignition-resistant appliance. (CPC 507.13 and CMC 305.1)
- **Impact protection of appliances.** Water heaters and heating/cooling equipment subject to vehicular impact shall be protected by bollards or an equivalent measure. (CPC 507.13.1 and CMC 305.11
- 10. Water closet clearance. Minimum 30-inch-wide by 24-inch-deep clearance required at front of water closets. (CPC 402.5)
- **1.** Shower size. Shower compartments shall have minimum area of 1024 square inches and be able to encompass a 30-inch-diameter circle. Shower doors shall have a minimum 22-inch unobstructed width. (CPC 408.5 and CPC 408.6)
- **12.** Fireplace appliances. Fireplaces with gas appliances are required to have the flue damper permanently fixed in the open position and fireplaces with LPG appliances are to have no 'pit' or 'sump' configurations. (CMC 303.7.1)
- 13. Chimney clearance. Minimum 2-foot chimney clearance required above building within 10-foot horizontally of chimney. The chimney shall extend minimum 3 feet above highest 9. Cripple walls. Foundation cripple walls shall be framed of studs not less in size than the point where chimney passes through roof. (CRC R1003.9)

### . Mechanical Ventilation and Indoor Air Quality (ASHRAE 62.2-2010)

- **Transfer air.** Ventilation air shall be provided directly from the outdoors and not as transfer air from adjacent dwelling units or other spaces, such as garages, unconditioned crawlspaces, or unconditioned attics. (CBEES 150.0(o))
- **Instructions and labeling.** Ventilation system controls shall be labeled and the home owner shall be provided with instructions on how to operate the system. (CBEES 150.0(o))
- Combustion and solid-fuel burning appliances. Combustion appliances shall be properly vented and air systems shall be designed to prevent back drafting. (CBEES
- 4. Garages. The wall and openings between occupiable spaces and the garage shall be 13. Shear wall spacing. Shear walls shall be located not more than 25 feet on center. (CRC 41. Roof diaphragm at ridges. Minimum 2-inch nominal blocking required for roof sealed. HVAC systems that include air handlers or return ducts located in garages shall have total air leakage of no more than 6% of total fan flow when measured at 0.1 in. w.c. **14. Shear wall offset.** Shear walls may be offset out-of-plan not more than 4 feet from the using California Title 24 or equivalents. (CBEES 150.0(o))
- Minimum filtration. Mechanical systems supplying air to occupiable space through ductwork shall be provided with a filter having a minimum efficiency of MERV 6 or better. 15. Shear wall location. Shear walls shall be located at the ends of each braced wall line or (CBEES 150.0(o))
- Air inlets. Air inlets (not exhaust) shall be located away from known contaminants. (CBEES 150.0(o))
- Air moving equipment. Air moving equipment used to meet either the whole-building ventilation requirement or the local ventilation exhaust requirement shall be rated in terms of airflow and sound. (CBEES 150.0(o))
- **a.** All continuously operating fans shall be rated at a maximum of 1.0 sone. **b.** Intermittently operated whole-building ventilation fans shall be rated at a maximum of
- 1.0 sone. c. Intermittently operated local exhaust fans shall be rated at maximum of 3.0 sone.
- **d.** Remotely located air-moving equipment (mounted outside of habitable spaces) need not meet sound requirements if at least 4 feet of ductwork between fan and intake grill.

### D. Foundation and Underfloor

PDS 081 (REV. 04/01/2020)

- Foundation reinforcement. Continuous footings and stem walls shall be provided with a minimum two longitudinal No. 4 bars, one at the top and one at the bottom of the footing. (CRC R403.1.3.3)
- 2. Shear wall foundation support. Shear walls shall be supported by continuous foundations. (CRC 403.1.2)
- Concrete slabs-on-grade. Slabs-on-grade shall be minimum 3-1/2-inches thick. (CRC
- 4. Vapor retarder. A 6-mil polyethylene or approved vapor retarder with joints lapped minimum 6 inches shall be placed between a concrete slab-on-grade and the base course or subgrade. (CRC 506.2.3)
- Anchor bolts and sills. Foundation plates or sills shall be bolted or anchored to the foundation or foundation wall per the following (CRC R403.1.6 and CRC R602.11.1):
- Minimum 1/2-inch-diameter steel bolts
- b. Bolts embedded at least 7 inches into concrete or masonry
- c. Bolts spaced maximum 6 feet on center d. Minimum two bolts per plate/sill piece with one bolt located maximum 12 inches and minimum 7 bolt diameters from each end of each sill plate/piece
- e. Minimum 3-inch by 3-inch by 0.299-inch steel plate washer between sill and nut on each bolt
- Hold-downs. All hold-downs must be tied in place prior to foundation inspection. Protection of wood against decay. Naturally durable or preservative-treated wood shall
- be provided in the following locations (CRC R317.1): a. All wood in contact with ground, embedded in concrete in direct contact with ground, or
- embedded in concrete exposed to weather **b.** Wood joists within 18 inches and wood girders within 12 inches of the exposed ground
- in crawl spaces shall be of naturally durable or preservative-treated wood Wood framing members that rest on concrete or masonry exterior foundation walls and are less than 8 inches from exposed earth shall be of naturally durable or preservative-treated wood
- **d.** Wood framing, sheathing, and siding on the exterior of the building and having clearance less than 6 inches from the exposed ground or less than 2 inches vertically from concrete steps, porch slabs, patio slabs, and similar horizontal surface exposed to
- e. Sills and sleepers on concrete or masonry slab in direct contact with ground unless separated from such slab by impervious moisture barrier

### D. Foundation and Underfloor (Continued)

- inch on tops, sides, and ends g. Wood structural members supporting moisture-permeable floors or roofs exposed to weather, such as concrete or masonry slabs, unless separated from such floors or
- roofs by an impervious moisture barrier h. Wood furring strips or other wood framing members attached directly to interior of exterior concrete or masonry walls below grade except where vapor retarder applied
- between wall and furring strips or framing members 8. Underfloor ventilation. Underfloor areas shall have ventilation openings through foundation walls or exterior walls, with minimum net area of ventilation openings of 1 square foot for each 150 square feet of underfloor area. On such ventilating opening shall be within 3 feet of each corner of the building. (CRC R408.1)
- 9. Underfloor access. Underfloor areas shall be provided with a minimum 18-inch by 24-inch access opening. (CRC R408.4)

### E. Wood Framing

- members/elements shall not be less than that set forth in CRC Table R602.3(1). (CRC R502.9, CRC R602.3, and CRC R802.2)
- accordance with CRC Table R602.3(5). (CRC R602.3.1)
- 3. Sill plate. Studs shall have full bearing on nominal 2-inch thick or larger sill plate with width at least equal to stud width. (CRC R602.3.4)
- 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)
- 5. Drilling and notching of studs. Any stud in an exterior wall or bearing partition may be cut or notched to a depth not exceeding 25% of its width. Studs in nonbearing partitions may be notched to a depth not to exceed 40% of a single stud width. Any stud may be bored or drilled, provided the diameter of the resulting hole is no more than 60% of the stud width, the edge of the hole is no more than 5/8 inch to the edge of the stud, and the hole is not located in the same section as a cut or notch. Studs located in exterior wall or bearing partitions drilled over 40% and up to 60% shall also be doubled with no more than two successive studs bored. (CRC R602.6)
- 6. Top plate. Wood stud walls shall be capped with a double top plate installed to provide overlapping at corners and at intersections with other partitions. End joints in double top plates shall be offset at least 24 inches. Joints in plates need not occur over studs. Plates shall be minimum nominal 2 inches thick and have width at least equal to width of studs. (CRC R602.3.2)
- 7. Top plate splices. Top plate lap splices shall be face-nailed with minimum 8 16d nails on each side of splice. (CRC R602.10.8.1)
- 8. Drilling and notching of top plate. When piping or ductwork is placed in or partly in an exterior wall or interior load-bearing wall, necessitating cutting, drilling, or notching of the top plate by more than 50% of its width, a galvanized metal tie not less than 0.054-inch thick and 1-1/2-inches wide shall be fastened across and to the plate at each side of the opening with not less than 8 10d nails having a minimum length of 1-1/2 inches at each side or equivalent. The metal tie must extend minimum 6 inches past the opening. (CRC R602.6.1)
- studding above. Cripple walls more than 4 feet in height shall have studs sized as required for an additional story. Cripple walls with stud height less than 14 inches shall be sheathed on at least one side with a wood structural panel fastened to both the top and bottom plates in accordance with Table R602.3(1), or the cripple walls shall be constructed of solid blocking. Cripple walls shall be supported on continuous foundations. (CRC R602.9)
- **10. Wall bracing.** Buildings shall be braced in accordance with the methods allowed per CRC R602.10.2, CRC R602.10.4, and/or CRC R602.10.5.
- 11. Braced wall line spacing. Spacing between braced wall lines shall not exceed 20 feet or alternate provisions of CRC R602.10.1.3.
- 12. Shear wall cumulative length. The cumulative length of shear walls within each braced wall line shall meet the provisions of CRC Table R602.10.3(1) for wind loads and CRC Table R602.10.3(2) for seismic loads. (CRC R602.10.1.1)
- R602.10.2.2
- designated braced wall line and not more than 8 feet from any other offset wall considered part of the same braced wall line. (CRC R602.10.1.2)
- meet the alternate provisions of CRC R602.10.2.2.
- 16. Individual shear wall length. Shear walls shall meet minimum length requirements of CRC R602.10.6.5.1.
- 17. Cripple wall bracing. Cripple walls shall be braced per CRC R602.10.11.
- **18.** Shear wall and diaphragm nailing. All shear walls, roof diaphragms, and floor diaphragms shall be nailed to supporting construction per CRC Table R602.3(1). (CRC R604.3 19. Shear wall ioints. All vertical joints in shear wall sheathing shall occur over, and be
- fastened to, common studs. Horizontal joints in shear walls shall occur over, and be fastened to, minimum 1-1/2-inch-thick blocking. (CRC R602.10.10)
- 20. Framing over openings. Headers, double joists, or trusses of adequate size to transfer loads to vertical members shall be provided over window and door openings in load-bearing walls and partitions. (CBC 2304.3.2)
- **21. Joists under bearing partitions.** Joists under parallel bearing partitions shall be of adequate size to support the load. Double joists, sized to adequately support the load, that are separated to permit the installation of piping or vents shall be full-depth solid-blocked with minimum 2-inch nominal lumber spaced at maximum 4 feet on center. Bearing partitions perpendicular to joists shall not be offset from supporting girders, walls, or partitions more than the joist depth unless such joists are of sufficient size to carry the additional load. (CRC R502.4)
- 22. Joists above or below shear walls. Where joists are perpendicular to a shear wall above or below, a rim joist, band joist, or blocking shall be provided along the entire length of the shear wall. Where joists are parallel to a shear wall above or below, a rim joist, end joist, or other parallel framing shall be provided directly above and/or below the shear wall. Where a parallel framing member cannot be located directly above and/or below the shear wall, full-depth blocking at 16-inch spacing shall be provided between the parallel framing members to each side of the shear wall. (CRC R602.10.8)
- **23. Floor member bearing.** The ends of each floor joist, beam, or girder shall have minimum 1-1/2 inches of bearing on wood or metal and minimum 3 inches of bearing on masonry or concrete except where supported on a 1-inch-by-4-inch ribbon strip and nailed to the adjoining stud or by the use of approved joist hangers. (CRC R502.6)
- 24. Floor joist lap. Floor joists framing opposite sides over a bearing support shall lap minimum 3 inches and shall be nailed together within minimum 3 10d face nails. A wood or metal splice with strength equal to or greater than that provided by the lap is permitted. (CRC R502.6.1)
- **25.** Floor joist-to-girder support. Floor joists framing into the side of a wood girder shall be supported by approved framing anchors or on ledger strips minimum nominal 2 inches by 2 inches. (CRC R502.6.2)
- **26.** Floor joist lateral restraint. Floor joists shall be supported laterally at ends and each intermediate support by minimum 2-inch full-depth blocking, by attachment to full-depth header, band joist, or rim joist, to an adjoining stud, or shall be otherwise provided with lateral support to prevent rotation. (CRC R502.7)
- 27. Floor joist bridging. Floor joists exceeding nominal 2 inches by 12 inches shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch strip nailed across the bottom of joists perpendicular to joists at maximum 8-foot intervals. (CRC R502.7.1)
- **28.** Framing of floor openings. Openings in floor framing shall be framed with a header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist may be a single member the same size as the floor joist. Single trimmer joists may be used to carry a single header joist located within 3 feet of the trimmer joist bearing. When the header joist span exceeds 4 feet, the trimmer joists and header joist shall be doubled and of sufficient cross section to support the floor joists framing into the header. Approved hangers shall be used for the header-joist-to-trimmer-joist connections when the header joist span exceeds 6 feet. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips minimum 2 inches by 2 inches. (CRC R502.10)

**38. Framing of roof/ceiling openings.** Openings in roof and ceiling framing shall be framed with a header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist may be a single member the same size as the ceiling joist or rafter. Single trimmer joists may be used to carry a single header joist located within 3 feet of the trimmer joist bearing. When the header joist span exceeds 4 feet, the trimmer joists and header joist shall be doubled and of sufficient cross section to support the ceiling joists or rafters framing into the header. Approved hangers shall be used for the header-joist-to-trimmer-joist connections when the header joist span exceeds 6 feet. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger 9. Fasteners for fire-retardant-treated wood. Fasteners for fire-retardant-treated wood strips minimum 2 inches by 2 inches. (CRC R502.10)

40. Roof diaphragm under fill framing. Roof plywood shall be continuous under California G. Roofing and Weatherproofing fill framing.

- **1. Roof covering.** All roof covering shall be installed per applicable requirements of CBC Roof coverings shall be at least Class A rated in accordance with ASTM E 108 or diaphragm nailing at ridges UL 790, which shall include coverings of slate, clay or concrete roof tile, exposed 42. Blocking of roof trusses. Minimum 2-inch nominal blocking required between trusses at concrete roof deck, ferrous or copper shingles or sheets. (County Building Code ridge lines and at points of bearing at exterior walls. 92.1.1505.1)

44. Drilling, cutting, and notching of roof/floor framing. Notches in solid lumber joists, rafters, blocking, and beams shall not exceed one-sixth the member depth, shall be not longer than one-third the member depth, and shall not be located in the middle one-third **3**. of the span. Notches at member ends shall not exceed one-fourth the member depth. The tension side of members 4 inches or greater in nominal thickness shall not be notched except at member ends. The diameter of holes bored or cut into members shall not exceed one-third the member depth. Holes shall not be closer than 2 inches to the top or bottom of the member or to any other hole located in the member. Where the member is also notched, the hole shall not be closer than 2 inches to the notch. (CRC R502.8.1) **45.** Exterior landings, decks, balconies, and stairs. Such elements shall be positively

- or nails subject to withdrawal. (CRC R311.3) **46.** Fireblocking. Fireblocking shall be provided in the following locations (CRC R302.11 and CRC R1003.19):

### E. Wood Framing (Continued)

f. Ends of wood girders entering masonry or concrete walls with clearances less than 1/2 29. Girders. Girders for single-story construction or girders supporting loads from a single floor shall not be less than 4 inches by 6 inches for spans 6 feet or less, provided that girders are spaced not more than 8 feet on center. Other girders shall be designed to support the loads specified in the CBC. Girder end joints shall occur over supports. When a girder is spliced over a support, an adequate tie shall be provided. The ends of beams or girders supported on masonry or concrete shall not have less than 3 inches of bearing. (CBC 2308.7)

> a gusset plate as a tie. Ridge boards shall be minimum 1-inch nominal thickness and not less in depth than the cut end of the rafter. At all valley and hips, there shall be a valley or hip rafter not less than 2-inch nominal thickness and not less in depth than the cut end of the rafter. Hip and valley rafters shall be supported at the ridge by a brace to a bearing partition or be designed to carry and distribute the specific load at that point. Where the roof pitch is less than 3:12 slope (25% gradient), structural members that support rafters and ceilings joists, such as ridges, hips, and valleys, shall be designed as beams. (CRC R802.3)

**31. Ceiling joist and rafter connections.** Ceiling joists and rafters shall be nailed to each other per CRC Table R802.5.1(9), and the rafter shall be nailed to the wall top plate per CRC Table R602.3(1). Ceiling joists shall be continuous or securely joined per CRC Table R802.5.1(9) where they meet over interior partitions and are nailed to adjacent rafters to provide a continuous tie across the building when such joists are parallel to rafters. Where ceiling joists are not connected to the rafters at the wall top plate, joists connected higher in the attic shall be installed as rafter ties, or rafter ties shall be installed to provide a continuous tie. Where ceiling joists are not parallel to rafters, rafter ties shall be installed. Rafter ties shall be minimum 2 inches by 4 inches nominal, installed per CRC Table R802.5.1(9), or connections of equivalent capacities shall be provided. Where ceilings joists or rafter ties are not provided, the ridge formed by these rafters **F. General Material Specifications** shall be supported by a wall or engineer-designed girder. (CRC R802.3.1)

**32.** Ceiling joists lapped. Ends of ceiling joists shall be lapped minimum 3 inches or butted over bearing partitions or beams and toenailed to the bearing element. Where ceiling joists provide resistance to rafter thrust, lapped joists shall be nailed together per CRC Table R602.3(1) and butted joists shall be tied together in a manner to resist such thrust. (CRC R802.3.2)

**33.** Collar ties. Collar ties or ridge straps to resist wind uplift shall be connected in the upper third of the attic space. Collar ties shall be a minimum 1 inch by 4 inches nominal and spaced at maximum 4 feet on center. (CRC R802.3.1)

**34. Purlins.** Purlins installed to reduce the span of rafters shall be sized not less than the required size of the rafters they support. Purlins shall be continuous and shall be supported by 2-inch-by-4-inch nominal braces installed to bearing walls at a minimum 45-degree slope from horizontal. The braces shall be spaced maximum 4 feet on center with a maximum 8-foot unbraced length. (CRC R802.5.1)

35. Roof/ceiling member bearing. The ends of each rafter or ceiling joist shall have not less than 1-1/2 inches of bearing on wood or metal and not less than 3 inches of bearing on masonry or concrete. (CRC R802.6)

**36.** Roof/ceiling member lateral support. Roof framing members and ceiling joists with a nominal depth-to-thickness ratio exceeding 5:1 shall be provided with lateral support at points of bearing to prevent rotation. (CRC R802.8)

37. Roof/ceiling bridging. Rafters and ceiling joists with a nominal depth-to-thickness ratio exceeding 6:1 shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch wood strip nailed across the rafters or ceiling joists at maximum 8-foot intervals. (CRC R802.8.1)

**39.** Roof framing above shear walls. Rafters or roof trusses shall be connected to top plates of shear walls with blocking between the rafters or trusses. (CRC R602.10.8)

**43. Truss clearance**. Minimum 1/2-inch clearance required between top plates of interior non-bearing partitions and bottom chords of trusses.

anchored to the primary structure to resist both vertical and lateral forces or shall be designed to be self-supporting. Attachment shall not be accomplished by use of toenails

- a. In concealed spaces of stud walls and partitions, including furred spaces, and parallel rows of studs or staggered studs, as follows:
- i. Vertically at the ceiling and floor levels

**ii.** Horizontally at intervals not exceeding 10 feet

**b.** At all interconnections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings, and cove ceilings

- c. In concealed spaces between stair stringers at the top and bottom of the run
- At openings around vents, pipes, ducts, cables and wires at ceiling and floor level, with **f.** At wall and roof intersections an approved material to resist the free passage of flame and products of combustion e. At chimneys and fireplaces per item E.49
- f. Cornices of a two-family dwelling at the line of dwelling-unit separation

47. Fireblocking materials. Except as otherwise specified in items E.48 and E.49, fireblocking shall consist of the following materials with the integrity maintained (CRC 7. R302.11.1):

- **a.** Two-inch nominal lumber
- b. Two thicknesses of one-inch nominal lumber with broken lap joints
- **c.** One thickness of 23/32-inch wood structural panel with joints backed by 23/32-inch
- wood structural panel d. One thickness of 3/4-inch particleboard with joints backed by 3/4-inch particleboard H. Grading and soils
- e. 1/2-inch gypsum board 1/4-inch cement-based millboard

a manner as to be securely retained in place. Batts or blankets of mineral or glass fiber or other approved non-rigid materials shall be permitted for compliance with the 10-foot horizontal fireblocking in walls constructed using parallel rows of studs or staggered studs. Unfaced fiberglass batt insulation used as fireblocking shall fill the I. Green Building Standards Code (CALGreen) Requirements

entire cross-section of the wall cavity to a minimum height of 16 inches measured vertically. When piping, conduit, or similar obstructions are encountered, the insulation shall be packed tightly around the obstruction. Loose-fill insulation material shall not be used as a fireblock unless specifically tested in the form and manner intended for use to demonstrate its ability to remain in place and to retard the spread of fire and hot

48. Fireblocking at openings around vents, pipes, ducts, cables, and wires at ceiling and floor level. Such openings shall be fireblocked with an approved material to resist the free passage of flame and products of combustion. (CRC R302.11)

### E. Wood Framing (Continued)

- 49. Fireblocking of chimneys and fireplaces. All spaces between chimneys and floors and ceilings through which chimneys pass shall be fireblocked with noncombustible material securely fastened in place. The fireblocking of spaces between chimneys and wood joists, beams, or headers shall be self-supporting or be placed on strips of metal or metal lath laid across the spaces between combustible material and the chimney. (CRC R1003.19)
- **50. Draftstopping.** In combustible construction where there is usable space both above and **30.** Ridges, hips, and valleys. Rafters shall be framed to a ridge board or to each other with below the concealed space of a floor/ceiling assembly, draftstops shall be installed so that the area of the concealed space does not exceed 1000 square feet. Draftstopping shall divide the concealed space into approximately equal areas. Where the a enclosed by a floor membrane above and a ceiling membrane below, draftsteed be provided in floor/ceiling assemblies under the fc lowing or commences / R302.12):
  - a. Ceiling is suspended under the floor framing
  - b. Floor framing is constructed of truss-type open-web or performer for ated members **51. Draftstopping materials.** Draftstopping shall not be less than 1/2-inch gypsum board, 3/8-inch wood structural panels, or other approved materials adequately supported. Draftstopping shall be installed parallel to the floor framing recorders unless otherwise approved by the building official. The integrity of draftstops shall be maintained. (CRC R302.12.1) Ethel Adams
  - 52. Combustible insulation clearance. Combustible insulation shall be separated minimum 3 inches from recessed luminaires, fan motors, and other heat-producing devices. (CRC R302.14)

- Lumber. All joists, rafters, beams, and posts 2-inches to 4-inches thick shall be No. 2 grade Douglas Fir-Larch or better. All posts and beams 5 inches and thicker shall be No. 1 grade Douglas Fir-Larch or better. Studs not more than 8 feet long shall be stud-grade Douglas Fir-Larch or better when supporting not more than one floor, roof, and ceiling. Studs longer than 8 feet shall be No. 2 grade Douglas Fir-Larch or better.
- **Concrete.** Concrete shall have a minimum compressive strength of 2,500 psi at 28 days and shall consist of 1 part cement, 3 parts sand, 4 parts 1-inch maximum size rock, and not more than 7-1/2 gallons of water per sack of cement. (CRC R402.2)
- Mortar. Mortar used in construction of masonry walls, foundation walls, and retaining walls shall conform to ASTM C 270 and shall consist of 1 part portland cement, 2-1/4 to 3 parts sand, and 1/4 to 1/2 part hydrated lime. (CBC 2103.2)
- 4. Grout. Grout shall conform to ASTM C 476 and shall consist of 1 part portland cement. 1/10 part hydrated lime, 2-1/4 to 3 parts sand, and 1 to 2 parts gravel. Grout shall attain a minimum compressive strength of 2,000 psi at 28 days. (CBC 2103.3) Masonry. Masonry units shall comply with ASTM C 90 for load-bearing concrete
- masonry units. (CBC 2103.1) **Reinforcing steel.** Reinforcing steel used in construction of reinforced masonry or
- concrete structures shall be deformed and comply with ASTM A 615. (CBC 2103.4) Structural steel. Steel used as structural shapes such as wide-flange sections, channels, plates, and angles shall comply with ASTM A36. Pipe columns shall comply
- with ASTM A53. Structural tubes shall comply with ASTM A500, Grade B. **Fasteners for preservative-treated wood.** Fasteners for preservative-treated and
- fire-retardant-treated wood including nuts and washers -- shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. (CRC R317.3.1) **Exception:** 1/2-inch diameter or greater steel bolts
- **Exception:** Fasteners other than nails and timber rivets may be of mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum
- **Exception:** Plain carbon steel fasteners acceptable in SBX/DOT and zinc borate preservative-treated wood in an interior. drv environment
- used in exterior applications or wet or damp locations shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. (CRC R317.3.3)

- Roof flashing. Flashing shall be installed at wall and roof intersections, at gutters, wherever there is a change in roof slope or direction, and around roof openings. Where flashing is of metal, the metal shall be corrosion-resistant with a thickness of not less than 0.019 inch (No. 26 galvanized sheet). (CRC R903.2.1)
- **Crickets and saddles.** A cricket or saddle shall be installed on the ridge side of any chimney or penetration more than 30 inches wide as measured perpendicular to the slope. Cricket or saddle covering shall be sheet metal or the same material as the roof covering. (CRC R903.2.2)
- Water-resistive barrier. A minimum of one layer of No. 15 asphalt felt shall be attached to studs or sheathing of all exterior walls. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer minimum 2 inches. Where joints occur, felt shall be lapped minimum 6 inches. The felt shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to maintain a weather-resistant exterior wall envelope. (CRC R703.2)
- Wall flashing. Approved corrosion-resistant flashing shall be applied shingle fashion at the following locations to prevent entry of water into the wall cavity or penetration of water to the building structural framing components (CRC R703.8):
- a. Exterior door and window openings, extending to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage
- **b.** At the intersection of chimneys or other masonry construction with frame or stucco
- walls, with projecting lips on both sides under stucco copings **c.** Under and at the ends of masonry, wood, or metal copings and sills
- **d.** Continuously above all projecting wood trim
- e. Where exterior porches, decks, or stairs attach to a wall or floor assembly of wood-frame construction
- **g.** At built-in gutters
- 6. Dampproofing. Dampproofing materials for foundation walls enclosing usable space below grade shall be installed on the exterior surface of the wall, and shall extend from the top of the footing to finished grade. (CRC R406.1)
- Weep screed. A minimum 0.019-inch (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed with a minimum vertical attachment flange of 3-1/2 inches shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 92. The weep screed shall be placed a minimum 4 inches above the earth or 2 inches above paved areas and shall be of a type allowing trapped water to drain to the exterior of the building. (CRC R703.7.2.1)

- 1. Grading permit. Grading permit required if volume of earth moved exceeds 200 cubic yards or if any cuts or fills exceed 8 feet in height/depth. (County Grading Ordinance 202)
- g. Batts or blankets of mineral or glass fiber of other approved materials installed in such 2. Compaction report. Compaction report required for fill material 12 inches or more in depth. (CBC 1803.5.8)

Applicability. CalGreen residential mandatory measures shall apply to every newly constructed building or structure and within any addition or alteration increasing a building's conditioned area, volume, or size. (CalGreen 101.3, CalGreen 301.1.1) Exception: All residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures per CalGreen 301.1.1 and CalGreen 4.303.1

### I. (CALGreen) Requirements (Continued)

- Water conserving plumbing fixtures and fittings. Plumbing fixtures and fittings shall comply with 16. Moisture content of building materials. Building materials with visible signs the following per CalGreen 4.303.1: **a.** Water closets: Maximum 1.28 gallons per flush
- **b.** Urinals: Maximum 0.5 gallons per flush Single showerheads: Maximum flow rate of 2.0 gallons per minute and a single showerheads.
- d. Multiple showerheads serving one shower: Maximum combined flo e. Lavatory faucets: Maximum flow rate of 1.2 gallons per minute a
- gallons per minute at 20 psi Kitchen faucets: Maximum flow rate of 1.8 gallons per minute at 60
- Exception: Temporary increase allowed to maximum 2.2 gallons per back to maximum 1.8 gallons per minute at 60 psi Irrigation controllers. Automatic irrigation system controllers for following (CalGreen 4.304.1):
- a. Controllers shall be weather- or soil moisture-based controllers the response to changes in plants' needs as weather conditions change Weather-based controllers without integral rain sensors or commu local rainfall shall have a separate wired or wireless rain sensor whi the controller(s). Soil moisture-based controllers are not required to Joints and openings. Openings in the building envelope se unconditioned space needed to accommodate utility and other
- compliance with the *California Energy Code*. (CALGreen 4.406.1) Exception: Annular spaces around pipes, electric cables, conduits or exterior walls shall be protected against the passage of rodents by mortar, concrete masonry or a similar method acceptable to the ent
- Construction waste reduction, disposal, and recycling. Rec minimum of 65 percent of the nonhazardous construction and de either Section 4.408.2, 4.408.3, or 4.408.4, or meet a more stringer waste management ordinance. (CalGreen 4.408.1)
- **Exception:** Excavated soil and land-clearing debris. Exception: Alternate waste reduction methods developed by working recycle facilities capable of compliance with this item do not exist or to the jobsite The County of San Diego, Department of Public Works (C&D) Facilities Guide is online at
- https://www.sandiegocounty.gov/content/dam/sdc/dpw/SOLID\_ and\_RECYCLING/UpdatedCDResources/CDFacility\_QuickGuide.pd Exception: The enforcing agency may make exceptions to the require isolated jobsites are located in areas beyond the haul boundaries of Construction waste management plan. A construction waste n
- with Items 1-5 shall be completed and available on the job site. The plan shall be updated as necessary and shall be available during co enforcing agency. (CalGreen 4.408.2) Identify the construction and demolition waste materials to be diverted reuse on the project or salvage for future use or sale.
- Specify if construction and demolition waste materials will be sorted of bulk mixed (single stream). 3. Identify diversion facilities where the construction and demolition was
- Identify construction methods employed to reduce the amount of con generated.
- Specify that the amount of construction and demolition waste materi weight or volume, but not by both.
- Waste management company. Utilize a waste management com agency, which can provide verifiable documentation that the demolition waste material diverted from the landfill complies with Se **Note:** The owner or contractor may make the determination if the con
- materials will be diverted by a waste company Waste stream reduction alternative [LR]. Projects that gene construction and demolition waste disposed of in landfills, which do foot of the building area shall meet the 65 percent construction Section 4 408 1 (CalGreen 4 408 4)
- 4.408.4.1 Waste stream reduction alternative. Projects that general construction and demolition waste disposed of in landfills, which do foot of the building area shall meet the 65 percent construction was Section 4 408 1
- Documentation. Documentation shall be provided to the enform compliance with Section 4.408.2, Items 1-5, Section 4.408.3, or Sec **Operation and maintenance manual.** Prior to final inspection, a reference, or other acceptable media which includes all of the follow (CAI Green 4.410.1)
- a. Directions to owner or occupant that manual shall remain with the t the structure. **b.** Operation and maintenance instructions for the following:
- i. Equipment and appliances, including water-saving devices and sys systems, water-heating systems and other major appliances and eq
- ii. Roof and yard drainage, including gutters and downspouts. iii. Space conditioning systems, including condensers and air filters. iv. Landscape irrigation systems.
- v. Water reuse systems.

- c. Information from local utility, water, and waste recovery provide resource consumption, including recycle programs and locations. **d.** Public transportation and/or carpool options available in the area.
- e. Educational material on the positive impacts of an interior relative and what methods an occupant may use to maintain the relative hu Information about water-conserving landscape and irrigation desig
- g. Instructions for maintaining gutters and downspouts and the impor feet away from the foundation
- h. Information on required routine maintenance measures, includi painting, grading around the building, etc. Information about state solar energy and incentive programs availab

or	е.		Spacing of sheathing pa supported by	tasteners on toor snearing panel edges applies i fasteners on roof sheathing panel edges applies anel edges perpendicular to the framing members y framing members or solid blocking. her is fastened to an adjacent parallel ceiling joist	to panel edges supported by frami s need not be provided except as req	ing members and required blocking, quired by other provisions of this cod	Blocking of roof or floor e. Floor pecimeter shall be		
	d.	Medium-density fiberboard (MDF)0.11Thin MDF (5/16 inch or less)0.13	inches on co spaced 6 inc g. Gypsum sho	nummae design wind speed is 1.50 mph or rest, its enter. Where the ultimate design wind speed is ches on center for minimum 48-inch distance fro cathing shall conform to ASTM C1396 and shall fasteners on floor sheathing panel edges applies t	greater than 130 mph, nails for att m ridges, caves and gable end walls be installed in accordance with GA	taching panel roof sheathing to intea s; and 4 inches on center to gable en A 253. Fiberboard sheathing shall cost	mediate supports shall be d wall framing. nform to ASTM C208.	Sho	et Number
	D. C.	Hardwood plywood composite core0.05Particle board0.09	<ul> <li>d. Four-foot by</li> <li>e. Spacing of t</li> <li>f. Where the u</li> </ul>	y 8-foot or 4-foot by 9-foot panels shall be applied fasteners not included in this table shall be based ultimate design wind speed is 130 mph or less, na	ed vertically. I on Table R602.3(2). ails for attaching wood structural pa	anel roof sheathing to gable end wall	framing shall be spaced 6		
	a. h	Hardwood plywood veneer core 0.05	äverage bon not larger th b. Staples are	Indergeominant, the strengths as shown: 80 ksi for shank data the strengths as shown: 80 ksi for shank diameterse 16 gage wire and have a minimum $V_{16}$ -inch on di be spaced at not more than 6 inches on center at a	diameter of 0.192 inch (20d comm of 0.142 inch or less. iameter crown width.	on nail), 90 ksi for shank diameters	larger than 0.142 inch but		
		93120 et seq.) by or before the dates specified in those sections, as shown in CalGreen Table 4.504.5. The following limits are in parts per million (CALGreen 4.504.5):	a. Nails are sn	mooth-common, box or deformed shanks except	TABLE R602.3(1)—continued FASTENING SCHEDULE where otherwise stated. Nails used	d for framing and sheathing connect	tions shall have minimum		
2)		composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR		8 <sup>7</sup> / <sub>8</sub> " - 1" 9 1 <sup>1</sup> / <sub>8</sub> " - 1 <sup>1</sup> / <sub>4</sub> "	8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131 ") nail; ( 8d deformed (2 <sup>1</sup> / <sub>2</sub> " × 0.120") nail 10d common (3" × 0.148") nail; ( 8d deformed (2 <sup>1</sup> / <sub>2</sub> " × 0.120") nail	8	12		
	15.	Composite wood products. Hardwood plywood, particleboard and medium density fiberboard		7 ${}^{3}I_{a}$ and less	6d deformed (2" × 0.120") nail; or 8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131") nail 8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131") nail; or	6	12		
		Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350)	30	6 <sup>5</sup> / <sub>8</sub> " gypsum sheathing <sup>il</sup>	$1\frac{1}{2}$ " long; $1\frac{1}{4}$ " screws, Type W or $1\frac{3}{4}$ " galvanized roofing nail; staple $1\frac{3}{4}$ " long; $1\frac{3}{8}$ " screws, Type W or panels, combination subfloor underlaym	e galvanized, 7 r S	7		
	c. d.	Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of	34	4 <sup>21</sup> / <sub>2</sub> " structural cellulosic fiberboard sheathing 5 <sup>1</sup> / <sub>2</sub> " gypsum sheathing <sup>d</sup>	$1^{3}l_{4}^{\prime\prime}$ galvanized roofing nail, $^{7}l_{45}^{\prime\prime}$ , diameter, or 1" crown staple 16 ga $1^{1}l_{2}^{\prime\prime}$ galvanized roofing nail; staple $1^{1}l_{2}^{\prime\prime}$ long; $1^{1}l_{4}^{\prime\prime}$ screws, Type W of	e galvanized, 7	6		
I		Products compliant with CHPS criteria certified under the Greenguard Children & Schools program	33	3 <sup>1</sup> / <sub>2</sub> <sup>~</sup> structural cellulosic fiberboard sheathing <sup>2</sup> / <sub>2</sub> <sup>-</sup> structural cellulosic	Other wall sheathing <sup>a</sup> 1 <sup>1</sup> / <sub>2</sub> " galvanized roofing nail. <sup>7</sup> / <sub>16</sub> " diameter, or 1" crown staple 16 ga 1 <sup>3</sup> / <sub>2</sub> " columnized roofing nail. <sup>3</sup> / <sub>2</sub> "	L., 1 <sup>1</sup> / <sub>4</sub> <sup>n</sup> long	6		
		Performance Products Database	3:	$\begin{array}{ccc} 1 & {}^{12} \gamma_{23} {}^{n} - 1 {}^{n} \\ 2 & 1 {}^{1} \gamma_{3} {}^{n} - 1 {}^{1} \gamma_{4} {}^{n} \end{array}$	10d common (3" × 0.148") nail; or 8d (2 <sup>1</sup> / <sub>2</sub> " × 0.131") deformed nail	r 6	12 <sup>r</sup>		
		comply with one of or more of the following (CALGreen 4.504.4): VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) High	30	[see Table R502.3(3) for 0 $3_{/3}^{'''''} - 1_{/2}^{'''}$ 1 $B_{/1/2}^{''''} - 1^{'''}$	wood structural panel exterior wall shea 6d common $(2^{"} \times 0.113^{"})$ nail (sub 8d common $(2^{1}l_{2}^{"} \times 0.131^{"})$ nail (sub 8d common nail $(2^{1}l_{2}^{"} \times 0.131^{"})$	bfloor, wall)	12 <sup>r</sup>		
	d. 14.	Scientific Certifications Systems Indoor Advantage™ Gold. <b>Resilient flooring systems.</b> At least 80 percent of the floor area receiving resilient flooring shall	ITE	EM DESCRIPTION OF BUILDING ELEMENTS Wood structural panels, subfloor, roof and [see Table R502.3(3) for	TYPE OF FASTENER <sup>® N</sup>	(inches)"	Intermediate supports <sup>6,1</sup> (inches)		
		01350). NSF/ANSI 140 at the Gold level.		9 Bridging to joist M DESCRIPTION	2-10d (3" × 0.128") NUMBER AND	Bach end, toe	TENERS		
	b.	California Department of Public Health Standard Practice for the testing of VOCs (Specification	2	8 Ledger strip supporting joists or rafters	4-16d box (3 <sup>1</sup> / <sub>2</sub> " × 0.135"); or 3-16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	r At each joist or rafte	r, face nail		
	а.	Carpet and Rug Institute's Green Label Plus Program (all carpet cushion must meet the requirements of this program).			And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Face nail at ends and a	t each splice		
	13.	<b>Carpet systems.</b> All carpet installed in the building interior shall meet the testing and product requirements of one of the following (CALGreen 4.504.3):	2	Built-up girders and beams, 2-inch lumber layers	10d box (3 " × 0.128 "); or 3 " × 0.131" naïls And:	24" o.c. face nail at top staggered on opposite r	and bottom		
	40	(CALGreen 4.504.2.1)			4-3" × 0.131 " nails; or 4-3" × 14 ga. staples, 7/ <sub>16</sub> " crown 20d common (4" × 0.192"); or	Nail each layer as follo at top and bottom and s	wws: 32" o.c.		
		adhesives), sealants, caulks, paints, and coatings shall comply with VOC limits per CALGreen 4.504.2. Verification of compliance shall be provided at the request of the enforcing agency.	2	2 <sup>o</sup> planks (plank & beam—tioor & root)     Band or rim joist to joist.	2-16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162") 3-16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162") 4-10 box (3" × 0.128"), or 4-3" × 0.131 " nails: or	Af each bearing, End nail			
	12.	the amount of dust or debris which may collect in the system. (CALGreen 4.504.1) Adhesives, sealants, caulks, paints, and coatings pollutant control. Adhesives (including carpet	2	24     2" subfloor to joist or girder       25     2" planks (plank & beam—floor & roof)	3-16d box (3 <sup>1</sup> / <sub>2</sub> " × 0.135"); or 2-16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162") 3-16d box (3 <sup>1</sup> / <sub>2</sub> " × 0.135"); or 2-16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.145");	Blind and face At each bearing,			
		covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce	Π	EM DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTE Floor	-	CATION		
I		the time of rough installation or during storage on the construction site and until final startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be	23	3 1" x 6" subfloor or less to each joist	3-8d bex (2 <sup>1</sup> / <sub>2</sub> "×0.113"); or 2-8d common (2 <sup>1</sup> / <sub>3</sub> "×0.131"); or 3-10d box (3"×0.128"); or 2 staples, 1" crown, 16 ga., 1 <sup>3</sup> / <sub>4</sub> " ld	Face nai	1		
	j. 11.	A copy of all special inspection verifications required by the enforcing agency or code. <b>Covering of duct openings and protection of mechanical equipment during construction.</b> At	22	Rim joist, band joist or blocking to sill or top plate (roof applications also)	8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails 2.8d how (21/ 1×0.113"); or	6" p.c. toe	nail		
	i. ;	Information about state solar energy and incentive programs available.	21		3-10d box (3" × 0.128"); or 3-3" × 0.131" nails 8d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	4" p.c. toe :			
	h.	Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.	21	Joist to sill, top plate or girder	Floor 4-8d box (2 <sup>1</sup> / <sub>2</sub> "×0.113"); or 3-8d common (2 <sup>1</sup> / <sub>2</sub> "×0.131"); or	Toe nai			
	-	Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.			3-8d common (2 <sup>4</sup> / <sub>2</sub> "× 0.131"); or 3-10d box (3"× 0.128"); or 4 staples, 1" crown, 16 ga., 1 <sup>3</sup> / <sub>4</sub> " lo	ong			
J		water.	20	$1^{"} \times 8^{"}$ and wider sheathing to each bearing	3 staples, 1" crown, 16 ga., 1 <sup>1</sup> / <sub>4</sub> " k Wider than 1"×8" 4-8d box (2 <sup>1</sup> / <sub>2</sub> "×0.113"); or	ong Face nai	1		
4	f.	and what methods an occupant may use to maintain the relative humidity level in that range. Information about water-conserving landscape and irrigation design and controllers which conserve			2 staples, 1" crown, 16 ga., 1 <sup>1</sup> / <sub>4</sub> " k 3-8d box (2 <sup>1</sup> / <sub>4</sub> " × 0.113"); or 3-8d common (2 <sup>1</sup> / <sub>4</sub> " × 0.131"); or 3-10d box (3" × 0.128"); or	ong			
	d. e.	Public transportation and/or carpool options available in the area. Educational material on the positive impacts of an interior relative humidity between 30-60 percent	19	9 1" × 6" sheathing to each bearing	3-8d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113"); or 2-8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131"); or 2-10d box (3" × 0.128"); or	Pace nat	1		
		resource consumption, including recycle programs and locations.	18	8 I" brace to each stud and plate	2-8d common (2 <sup>1</sup> / <sub>2</sub> "×0.131"); or 2-10d box (3"×0.128"); or 2 staples 1 <sup>3</sup> / <sub>4</sub> "	Face nai	1		
	v. c.	Water reuse systems. Information from local utility, water, and waste recovery providers on methods to further reduce	15	7 Top plates, Japs at corners and intersections	3-10d box (3" × 0.128"); or 2-16d common (3'/ <sub>2</sub> " × 0.162"); o 3-3" × 0.131" nails 3-8d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113"); or	r Face nai	1		
•	iv.	Landscape irrigation systems.			2-16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.162"); o 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	r End nai			
	ii. ;;;	Roof and yard drainage, including gutters and downspouts. Space conditioning systems, including condensers and air filters.	10	6 Top or bottom plate to stud	4-10d box (3"× 0.128"); or 4-3"× 0.131" nails 3-16d box (3 <sup>1</sup> / <sub>2</sub> "× 0.135"); or				
	i.	Equipment and appliances, including water-saving devices and systems, HVAC system, photovoltaic systems, water-heating systems and other major appliances and equipment.			4-8d box (2 <sup>1</sup> / <sub>2</sub> "×0.113"); or 3-16d box (3 <sup>1</sup> / <sub>2</sub> "×0.135"); or 4-8d common (2 <sup>1</sup> / <sub>2</sub> "×0.131"); or 4.10d box (2 <sup>1</sup> / <sub>2</sub> "×0.128"); or	Toe nai			
	b. :	Operation and maintenance instructions for the following:	12	5 Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel)	3-16d box $(3^{1}/_{2}" \times 0.135")$ ; or 2-16d common $(3^{1}/_{2}" \times 0.162")$ ; o 4-3" × 0.131" nails	3 each 16" o.c. 2 each 16" o.c. 4 each 16" o.c.	face nail		
-	a.	Directions to owner or occupant that manual shall remain with the building throughout the life cycle of the structure.	1	4 Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (3 <sup>3</sup> / <sub>2</sub> " × 0.162") 16d box (3 <sup>3</sup> / <sub>2</sub> " × 0.135"); or 3" × 0.131" nails	15" o.c. face 12" o.c. face	• nail		
		reference, or other acceptable media which includes all of the following shall be placed in the building (CALGreen 4.410.1):	ПТЕ	Double top plate splice SDCs D <sub>g</sub> , D <sub>1</sub> , or D <sub>2</sub> ; and wall line spacing ≥ 25′ EN DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FAST	ENER <sup>4 &amp; SPACING AND LO</sup>			
	10.	Operation and maintenance manual. Prior to final inspection, a manual, compact disc, web-based	13	Double top plate splice for SDCs A-D <sub>2</sub> with seis braced wall line spacing < 25' Double top plate splice SDCs D <sub>3</sub> , D <sub>1</sub> , or D <sub>3</sub> ; and	smic 12-16d box (3 <sup>1</sup> / <sub>2</sub> " × 0.1 12-10d box (3" × 0.128 12-3" × 0.131" nails	35"); or Face nail on each side (minimum 24" lap spli each side of end joint)			
	9.	<b>Documentation.</b> Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1-5, Section 4.408.3, or Section 4.408.4.	12	Top plate to top plate	10d box (3" × 0.128"); 3" × 0.131" nails 8-16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.1 12.16d box (3 <sup>1</sup> / <sub>4</sub> " × 0.1	:0.162"); or			
		foot of the building area shall meet the 65 percent construction waste reduction requirement in Section 4.408.1.	11	Continuous header to stud	4-8d common (2 <sup>1</sup> / <sub>2</sub> " × 0 4-10d box (3" × 0.128" 16d common (3 <sup>1</sup> / <sub>2</sub> " × 0	0.131"); or Toe nail 0.162") 16" o.c. face	nail		
	-	construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square	10	Built-up header $(2'' to 2'' header with {}^{1}J_{2}'' spacer$	r) 16d box (3 <sup>1</sup> / <sub>2</sub> "× 0.135" 5-8d box (2 <sup>1</sup> / <sub>2</sub> "× 0.113	") 12" o.c. each edge			
	4	Section 4.408.1. (CalGreen 4.408.4) A408.4.1 Waste stream reduction alternative. Projects that generate a total combined weight of	9	Stud to stud and abutting studs at intersecting w (at braced wall panels)	all corners $3'' \times 0.131''$ nails 16d common $(3')_1'' \times 0.131'' \times 0.131''' \times 0.131'''' \times 0.131'''' \times 0.131''''' \times 0.131''''''''' \times 0.131'''''''''''''''''''''''''''''''''''$	.162") 16" o.c. face 1	nail		
		foot of the building area shall meet the 65 percent construction waste reduction requirement in	8	Stud to stud (not at braced wall panels)	10d box (3" × 0.128"); 3" × 0.131" nails 16d box (3 <sup>1</sup> / <sub>3</sub> " × 0.135"	or 16" o.c. face :	nail		
	8.	<b>Waste stream reduction alternative [LR].</b> Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 pounds per square			3-3" × 0.131" nails Well 16d common (3 <sup>1</sup> / <sub>2</sub> " × 0.	.162") 24" o.c. face :	nail		
)		materials will be diverted by a waste company.		to minimum 2" ridge beam	3-16d box 3 <sup>1</sup> / <sub>2</sub> "×0.135 2-16d common (3 <sup>1</sup> / <sub>2</sub> "× 3-10d box (3"×0.128"	0.162"); or			
<b>`</b>	N	demolition waste material diverted from the landfill complies with Section 4.408.1. (CalGreen 4.408.3) <b>lote:</b> The owner or contractor may make the determination if the construction and demolition waste	7	Roof rafters to ridge, valley or hip rafters or roo to minimum 2" ridge beam	3-10d common (3 <sup>1</sup> / <sub>2</sub> "× 4-10d box (3"×0.128" 4-3"×0.131" nails	0.148"); or ); or Toe nail			
	7.	<b>Waste management company.</b> Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and		· · · · · · · · · · · · · · · · · · ·	4-10d box (3"× 0.128" 4-3"× 0.131" nails 4-16d (3'/ <sub>2</sub> "× 0.135");	); or truss <sup>1</sup> or		8	<b>0</b> 0
	v	veight or volume, but not by both.	6	Rafter or roof truss to plate	3-16d box nails (3 <sup>1</sup> / <sub>2</sub> " × 3-10d common nails (3 or	" × 0.148"); 2 toe nails on one side a on opposite side of eac	ind 1 toe nail h rafter or		WN Gera
		generated. Specify that the amount of construction and demolition waste materials diverted shall be calculated by	5	R802,5,1(9)] Collar tie to rafter, face nail or 1 <sup>1</sup> / <sub>4</sub> " × 20 ga. rid rafter	lge strap to 3-10d common (3" × 0.128" 4-3" × 0.131" nails		rafter	BUILDING	<b>OWNER (</b> Gerardo
		Identify construction methods employed to reduce the amount of construction and demolition waste	4	R802.5.1(9)] Ceiling joist attached to parallel rafter (heel join [see Sections R802.3.1 and R802.3.2 and Tab R802.5.1(9)]	it)	Face nail		D N C	
		bulk mixed (single stream). Identify diversion facilities where the construction and demolition waste materials will be taken.	3	Ceiling joist not attached to parallel rafter, laps partitions [see Sections R802.3.1, R802.3.2 a R802.5.1(9)]	over 4-10d box (3"×0.128"	): or 0.162 ''): or Face nail		R	പ്പ് പ്
	2.	reuse on the project or salvage for future use or sale. Specify if construction and demolition waste materials will be sorted on-site (source-separated) or	2	Ceiling joists to top plate	4-8d box (2 <sup>1</sup> / <sub>2</sub> " × 0.113' 3-8d common (2 <sup>1</sup> / <sub>1</sub> " × 0 3-10d box (3" × 0.128") 3-3" × 0.131" nails	"); or A.131 "); or ?; or Per joist, toe I	nail	RECORI	
l	1.	Identify the construction and demolition waste materials to be diverted from disposal by recycling,	1	Blocking between ceiling joists or rafters to top	3-3" × 0.131" nails	); or		) KL	<b>ONTR</b> La R
		plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency. (CalGreen 4.408.2)	ITE	M DESCRIPTION OF BUILDING ELEMENTS	Roof	1	CATION		<b>RACTOR</b> Riva
3	6.	with Items 1-5 shall be completed and available on the job site. The construction waste management			TABLE R602.3(1) FASTENING SCHEDULE				e TC
~		isolated jobsites are located in areas beyond the baul boundaries of the diversion facility		ENER SCHEDUL		UCTURAL M	EMBERS		
	E	and_RECYCLING/UpdatedCDResources/CDFacility_QuickGuide.pdf Exception: The enforcing agency may make exceptions to the requirements of this section when		E R602.3(1)					
5		https://www.sandiegocounty.gov/content/dam/sdc/dpw/SOLID_WASTE_PLANNING_		Select heating and coolin other equivalent design s			-S Manual S or		SIGNATURE
		to the jobsite The County of San Diego, Department of Public Works, Construction & Demolition (C&D) Facilities Guide is online at:		ASHRAE handbooks, or					ATL
e.	E	<b>Exception:</b> Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close		nethods. Duct systems are sized a	Iccording to ANGI	ACCA 1 Manual F	2009		JRE
<b>D</b> .		xception: Excavated soil and land-clearing debris.	Ν	Manual J, ASHRAE hand					
		either Section 4.408.2, 4.408.3, or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance. (CalGreen 4.408.1)		ng methods (CALGreen ∠ The heat loss and heat g		according to ANS	I/ACCA 2		
	5.	minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with	system	s shall be sized, designe	ed, and have their				
0	5.	mortar, concrete masonry or a similar method acceptable to the enforcing agency. <b>Construction waste reduction, disposal, and recycling.</b> Recycle and/or salvage for reuse a		ating and air-conditioni					
m C	E	exterior walls shall be protected against the passage of rodents by closing such opening with cement	s	shall have humidity contrational strength and the second strength and the seco	ols capable of adj	ustment - manuall	y or		
~	F	compliance with the California Energy Code. (CALGreen 4.406.1) Exception: Annular spaces around pipes, electric cables, conduits or other openings in plates at	<b>b</b> . (	Jnless functioning as a c	•				
	4.	Joints and openings. Openings in the building envelope separating conditioned space from unconditioned space needed to accommodate utility and other penetrations must be sealed in		Fans shall be ENERGY S building	STAR compliant a	nd ducted to termi	nate outside		
	A	the controller(s). Soil moisture-based controllers are not required to have rain sensor input.	the	e following (CalGreen 4.5	506.1):				
_	b.	Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with		ecommendations prior to the throoms with a bathtub		nall be mechanical	lly ventilated per		
		Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.	V	Net-applied insulation pr ecommendations prior to	oducts shall follow				
		following (CalGreen 4.304.1):		nsulation products which be replaced or allowed to	•	•			
I		back to maximum 1.8 gallons per minute at 60 psi <b>Irrigation controllers.</b> Automatic irrigation system controllers for landscaping shall comply with the	t	he time of approval to er	nclose the wall and	d floor framing.			
6		Kitchen faucets: Maximum flow rate of 1.8 gallons per minute at 60 psi Exception: Temporary increase allowed to maximum 2.2 gallons per minute at 60 psi if faucet defaults		At least three random mo raming with documentati					
a	e.	Lavatory faucets: Maximum flow rate of 1.2 gallons per minute at 60 psi, minimum flow rate of 0.8 gallons per minute at 20 psi		Moisture readings shall b stamped end of each pie	•		m the grade		
		Multiple showerheads serving one shower: Maximum combined flow rate of 2.0 gallons per minute at 80 psi		noisture meter.					
al	c.	Urinals: Maximum 0.5 gallons per flush Single showerheads: Maximum flow rate of 2.0 gallons per minute at 80 psi		e verified in compliance v Moisture content shall be	-	-			
				ne manning membere exe					

I. (CALGreen) Requirements (Continued)

of water damage shall not be installed. Wall and floor framing shall not be enclose

when the framing members exceed 19 percent moisture content. Moisture content

THESE ARE MINIMUM REQUIREMENTS AND SHALL NOT SUPERSEDE MORE RESTRICTIVE SPECIFICATIONS ON THE PLANS OR AS REQUIRED BY APPLICABLE CODE.

## CONSTRUCTION BMP'S

# 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 BELOW:

- 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 CONSTRUCTION LEVEL BMPS AND, IF APPLICABLE, STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) FOR POST-CONSTRUCTION BMPS.
- THE CONTRACTOR 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 AND REINSTALLED AFTER RAIN IS OVER.
- ALL CONSTRUCTION BPS SHALL BE INSTALLED AND PROPERLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED CONTRACT PERSON CAN PROVIDE EROSION AND SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER BMPS AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED SWPPP/WPCP WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATION, CIVIL PENALTIES, AND/OR STOP WORK NOTICES.
- THE CONTRACTOR OR QUALIFIED 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.
- THE CONTRACTOR SHALL PROTECT NEW AND EXITING STORM WATER CONVEYANCE SYSTEMS FROM SEDIMENTATION. CONCRETE BINSE, OB OTHER CONSTRUCTION-BELATED DEBRIS AND DISCHARGES WITH THE APPROPRIATE BPS THAT ARE ACCEPTABLE TO THE CITY RESIDENT ENGINEER AND AS INDICATED IN THE SWPPP/WPCP
- THE CONTRACTOR OR QUALIFIED CONTACT PERSON SHALL CLEAR DEBRIS, SILT, 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.
- IF A NON-STORM WATER DISCHARGES LEAVES THE SITE, THE CONTRACTOR SHALL IMMEDIATELY STOP THE ACTIVITY AND REPAIR THE DAMAGES. THE CONTRACTOR SHALL NOTIFY THE CITY RESIDENT ENGINEER OF THE DISCHARGES, PRIOR TO RESUMING CONSTRUCTION ACTIVITY, ANY AND ALL WASTE MATERIAL, SEDIMENT, AND DEBRIS FROM EACH NON-STORM WATER DISCHARGE SHALL BE REMOVED FROM THE STORM DRAIN CONVEYEANCE SYSTEM AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ONSITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF CONSTRUCTION BPS WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL RESTORE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO WORKING ORDER YEAR-ROUND.
- 2. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DUE TO UNFORESEEN CIRCUMSTANCES TO PREVENT NON-STORM WATER AND SEDIMENT-LADEN DISCHARGES.
- . THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- 4. ALL EROSION AND SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED SWPPP/WPCP SHALL BE INSTALLED AND MAINTAINED. ALL EROSION AND SEDIMENT CONTROLS FOR INTERIM CONDITIONS SHALL BE PROPERLY DOCUMENT AND INSTALLED TO THE SATISFACTION OF THE CITY RESIDENT ENGINEER.
- AS NECESSARY, THE 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.
- . 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.
- CONSTRUCTION ENTRANCE AND EXIT AREA. TEMPORARY CONSTRUCTION ENTRANCE AND EXITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CASQDA FACT SHEET TC-1 OR CALTRANS FACE SHEET TC-01 TO PREVENT TRACKING OF SEDIMENT AND OTHER POTENTIAL POLLUTANTS ONTO PAVED SUBFACES AND RAVELED 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 AFTER MANAGEMENT AND DISCHARGED CONTROL.

- TICE TO THE APPLICANT/OWNER/OWNER'S AGENT/ARCHITECT OR ENGINEER OR RECO BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WOR SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPEC INSPECTION, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICA OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIR THE CALIFORNIA CONSTRUCTION CODES.
- NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUB-CONTRACTOR/ OWNER-BUILDER: BY USING THIS RMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HI YOU ACKNOWLEDGED AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPE INSPECTIONS, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRIC/ OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRI THE CALIFORNIA CONSTRUCTION CODES.
- THE CONTRACTOR SHALL TAKE THE NECESSARY TIME AND CARE TO BECOME FAMILIAR WITH THE APPRC SET OF DRAWINGS AND REFER ONLY TO APPROVED SETS OF DRAWINGS DURING THE CONSTRUCTION OF PROJECT
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF THE EXISTING STRUCTURE, ELEVATIONS AND SITE CONDITIONS AFFECTED BY PROPOSED WORK, VERIFY ALL PLAN DIMENSIONS OF "NEW" ADDED OR REMC AREA PRIOR TO STARTING WORK. THIS INCLUDES EXISTING WINDOWS & DOORS TO BE REPLACED OR RETRO-FITTED. THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL AND/OR THE ENGINEER IMMEDIATELY OF ALL DISCREPANCIES.
- ALL VERIFICATIONS OF NEW AND EXISTING DIMENSIONS ARE TO BE DONE PRIOR TO THE START OF WORK ORDERING OF WINDOWS, DOORS, LUMBER AND/OR FLOOR OR ROOF TRUSSES.
- ALL CHANGES ARE TO BE APPROVED BY A DESIGN PROFESSIONAL AND THE BUILDING DEPARTMENT BEF CHANGES ARE MADE IN THE FIELD
- UNLESS OTHERWISE NOTED OR SHOWN ELSEWHERE ON THE PLANS, TYPICAL DETAILS AND GENERAL NO APPLY TO ALL PARTS OF THE JOB.
- WHERE CONSTRUCTION DETAILS OR NOTES ARE NOT SHOWN FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN IN THE DRAWING.
- NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES 10. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE
- CONSTRUCTION DRAWINGS.
- 11. CONTRACTOR SHALL VERIFY AND DETERMINE LOCATION OF ALL EXISTING UTILITIES AND SHALL NOT PERFORM ANY WORK THAT WILL DAMAGE EXISTING UTILITIES.
- 12. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL AND LOCAL SAFETY REQUIREMENTS.
- 13. ALL MATERIALS AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL STANDARDS AND TO THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE U.B.C.
- 14. METAL CONNECTORS, STRAPS, HANGERS, HOLDOWNS, ETC., CALLED OUT ON PLANS ARE TO BE SIMPSON "STRONG TIE" OR APPROVED EQUAL.
- THIS PLAN DOES NOT PROVIDE COMPLETE FLASHING AND WATERPROOFING DETAILS THE DESIGNER AND ENGINEER DO NOT REPRESENT THEMSELVES TO BE EXPERTS IN THE FIELD OF WATERPROOFING IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR THE ROOF/DECKING SUBCONTRACTOR TO PROVIDE THE NECESSARY STANDARD OF CARE IN WORKMANSHIP AND MATERIALS TO COMPLETE THE ROOF AND DECKS IN A WATERTIGHT CONDITION ROOF AND/OR DECK DRAINAGE SHALL NOT BE ALLOWED TO RUN BEHIND ANY FASCIA BOARDS OR ONTO THE EXTERIOR FINISH OF THE STRUCTURE.
- COMPLIANCE WITH THE DOCUMENTATION REQUIREMENTS OF THE 2016 ENERGY EFFICIENCY STANDARDS IS NECESSARY FOR THIS PROJECT. REGISTERED, SIGNED, AND DATED COPIES OF THE APPROPRIATE CF1R, CF2R, AND CF3R FORMS SHALL BE MADE AVAILABLE AT NECESSARY INTERVALS FOR BUILDING INSPECTOR REVIEW. FINAL COMPLETED FORMS WILL BE AVAILABLE FOR THE BUILDING OWNER.
- ALL NEW WINDOWS AND SLIDING GLASS DOORS SHALL BE DUAL GLAZED UNLESS OTHERWISE SPECIFIED BY AN ACCREDITED ENERGY DESIGNER.
- CONTRACTOR SLOPE ALL DISTURBED GRADES TO DRAIN SURFACE WATER AWAY FROM STRUCTURE ON ALL SIDES OF GROUND LEVEL ADDITION. CONTRACTOR TO SLOPE ALL NEW IMPERMEABLE SURFACES TO DRAIN AWAY FROM POOL AND TOWARD PERMEABLE SURFACES SUCH AS LANDSCAPING.
- 19. STATE HEALTH AND SAFETY CODE SEC17921.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) AND CROSS LINKED POLYETHYLENE (PEX) FOR INTERIOR WATER-SUPPLY PIPING.
- 20. FIRE PLACES WITH GAS APPLIANCES ARE REQUIRED TO HAVE THE FLUE DAMPER PERMANENTLY FIXED IN THE OPEN POSITION AND FIREPLACES WITH LPG APPLIANCES ARE TO HAVE NO PIT OR "SUPM" CONFIGURATIONS. (U.M.C. 9.04.5)
- 21. JOINTS AND OPENINGS , ANNULAR SPACES AROUND PIPES, ELECTRICAL CABLES, CONDUITS, OR OTHER DPENINGS 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. (CGBSC 4.406.1)
- 22. A MINIMUM OF 50 PERCENT OF THE CONSTRUCTION WASTE GENERATED AT THE SITE IS DIVERTED TO RECYCLE OR SALVAGE PER CGBSC SECTION 4.408.1 AND CITY ORDINANCE.
- 23. ADHESIVES, SEALANTS AND CAULKS SHALL BE COMPLIANT WITH "VOC" AND OTHER TOXIC COMPOUND LIMITS. (CGBSC 4.504.2.1)
- 24. PAINTS, STAINS AND OTHER COATINGS SHALL BE COMPLIANT WITH "VOC" LIMITS (CGBSC 4.504.2.3) 25. AEROSOL PAINTS AND COATINGS SHALL BE COMPLIANT WITH PRODUCT WEIGHTED "MIR" LIMITS FOR "VOC"

AND OTHER TOXIC COMPOUNDS. (CGBSC 4.504.2.3)

- 26. DOCUMENTATION SHALL BE PROVIDED TO VERIFY THAT COMPLIANT "VOC" LIMIT FINISH MATERIALS HAVE BEEN USED. A LETTER FROM THE CONTRACTOR AND OR THE BUILDING OWNER CERTIFYING WHAT MATERIAL HAS BEEN USED AND ITS COMPLIANCE WITH THE CODE MUST BE SUBMITTED TO THE BUILDING INSPECTOR. (CGBSC 4,504,2,4)
- CARPET AND CARPET SYSTEMS SHALL BE COMPLIANT WITH "VOC" LIMITS. A LETTER FROM THE CONTRACTOR AND OR THE BUILDING OWNER CERTIFYING WHAT MATERIAL HAS BEEN USED AND ITS COMPLIANCE WITH THE CODE MUST BE SUBMITED TO THE BUILDING INSPECTOR. (CGBSC 4.504.3)
- 28. PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND HARDWOOD PLYWOOD USED IN INTERIOR FINISH SYSTMES SHALL COMPLY WITH LOW FORMALDEHYDE EMISSION STANDARDS. A LETTER FROM THE INSTALLER AND OR THE BUILDING OWNER CERTIFYING WHAT MATERIAL HAS BEEN USED AND DOCUMENTING ITS COMPLIANCE WITH THE CODE MUST BE SUBMITED TO THE BUILDING INSPECTOR. (CGBSC 4.504.5)
- 29. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN FRAMING MEMBERS EXCEED 19% MOISTURE CONTENT.
- 30. THE MOISTURE CONTENT OF BUILDING MATERIALS USED IN WALL AND FLOOR FRAMING IS CHECKED BEFORE ENCLOSURE. MOISTURE CONTENT SHALL BE VERIFIED BY EITHER A PROBE TYPE OF CONTACT TYPE MOISTURE METER. A CERTIFICATE OF COMPLIANCE INIDCATING DATE OF TEST, LOCATION AND RESULTS ISSUED BY THE FRAMING SUB-CONTRACTOR OR GENERAL CONTRACTOR MUST BE SUBMITTED TO THE BUILDING INSPECTOR. (CGBSC 4.505.3)
- 31. SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE WATER AWAY FROM BUILDINGS. PLANS SHALL BE PROVIDED AND APPROVED BY THE CITY ENGINEER THAT SHOW SITE GRADING AND PROVIDE FOR STORM WATER RETENTION AND DRAINAGE DURING CONSTRUCTION. BMP'S THAT ARE CURRENTLY ENFORCED BY THE COTY ENGINEER MUST BE IMPLEMENTED PRIOR TO INITALL INSPECTION BY THE BUILDING DEPARTMENT. CGC
- 32. A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO WORK BEGINNING.
- 33. CONTROLLERS SHALL BE WEATHER- OR SOIL MOISTURE~BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE
- 34. WEATHER-BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSORS OR COMMUNICATION SYSTEMS THAT CCOUNT FOR LOCAL RAINFALL SHALL HAVE A SEPARATE WIRED OR WIRELESS RAIN SENSOR AN ELECTRONICALLY SIGNED AND REGISTERED INSTALLATION CERTIFICATE(S) (CF2R) POSTED BY THE
- INSTALLING CONTRACTOR SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION AT THE BUILDING SITE. A REGISTERED CF2R WILL HAVE A UNIQUE 21-DIGLT REGISTRATION NUMBER FOLLOWED BY FOUR ZEROS LOCATED AT THE BOTTOM OF EACH PAGE. THE FIRST 12 DIGITS OF THE NUMBER WILL MATCH THE REGISTRATION NUMBER OF THE ASSOCIATED CF1 R. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL FORMS CF2R IS REVIEWED AND APPROVED.
- AN ELECTRONICALLY SIGNED AND REGISTERED CERTIFICATE(S) OF FIELD VERIFICATION AND DIAGNOSTIC TESTING (CF3R) SHALL BE POSTED AT THE BUILDING SIGNED AND REGISTERED CERTIFICATE(S) OF FIELD VERIFICATION AND DIAGNOSTIC TESTING (CE3B) SHALL BE POSTED AT THE BUILDING SITE BY A CERTIFIED HERS RATER. A REGISTERED CF3R WILL HAVE A UNIQUE 25-DIGIT REGISTRATION NUMBER LOCATED AT THE BOTTOM OF EACH PAGE. THE FIRST 20 DIGITS OF THE NUMBER WILL MATCH THE REGISTRATION NUMBER OF THE ASSOCIATED CF2R. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL CF3R IS REVIEWED AND APPROVED.
- IRRIGATION CONTROLLERS SHALL BE WEATHER- OR SOIL MOISTURE~BASED CONTROLLEF

# GENERAL

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# **GENERAL DOOR NOTES**

- DIMENSIONS INDICATED ON PLANS AND SCHEDULES ARE NOMINAL COORDINATE PRIOR TO FABRICATION. THE GENERAL CONTRACTOR AND/OR WINDOW SUBCONTRACTOR/SUPPLIER SHALL FIELD VERIFY SIZE, STYLE OF ALL EXISTING DOORS TO BE REPLACED OR RETROFITTED PRIOR TO ORDER.
- 3. PAINT GRADE OR STAIN GRADE PER OWNER OR CONTRACTOR
- 4. PAINT / STAIN COLOR AND BRAND PER OWNER
- DOOR MANUFACTURER PER OWNER OR CONTRACTOR. ALL GLAZING SHALL BE LOW "E" RATED AND HAVE THE FOLLOWING MINIMUM SPECIFICATIONS:
- U-FACTOR: .32 SHGC: .25
- LANDINGS AT EXTERIOR DOORWAY: LANDINGS SHALL NOT BE MORE THAN 7.75 INCHES BELOW THE TOP OF THE THRESHOLD, PROVIDED THE DOOR OTHER THAN AN EXTERIOR STORM OR SCREEN DOOR, DOES NOT SWING OVER THE LANDING (SEC 1008.1.4, EXCEPTION 3).
- DOORS BETWEEN GARAGES AND OCCUPIABLE SPACES (ENCLOSED SPACES INCLUDING HABITABLE SPACES, BATHROOMS, CLOSETS, HALLS, STORAGE AND UTILITY AREAS, ETC) SHALL BE GASKETED OR MADE SUBSTANTIALLY AIRTIGHT WITH WEATHER STRIPPING.
- EXTERIOR DOOR ASSEMBLIES SHALL CONFORM TO THE PERFORMANCE REQUIREMENTS OF STANDARD SFM 12-7A-2 OR SHALL BE OF APPROVED NONCOMBUSTIBLE CONSTRUCTION, OR SOLID CORE WOOD HAVING STILES AND RAILS NOT LESS THAN 1 <sup>3</sup>/<sub>4</sub>" THICK WITH INTERIOR FIELD PANEL THICKNESS OF NO .ESS THAN 1 ½" THICK, OR SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257. (CRC SEC. 327.8.2.1)
- 9. EXTERIOR DOORS SHALL COMPLY WITH (CRC SEC. 327.8.3)
- 10. EXTERIOR DOOR GLAZING SHALL COMPLY WITH (CRC SEC. 327.8.3.1)
- 11. DOOR OPENINGS BETWEEN GARAGE AND RESIDENCE SHALL BE SELF-CLOSING AND SELF-LATCHING, AND SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/8" THICK SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 3/8" THICK OR 20-MIN. FIRE-RATED DOORS PER CRC SEC. R302.5.1
- 12. THRESHOLDS: THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 0.75 INCHES IN HEIGHT FOR SLIDING GLASS DOORS SERVING DWELLIN UNITS OR 0.5 INCHES FOR OTHER DOORS.

## GENERAL WINDOW NOTES

- ALL NEW WINDOWS TO BE WHITE VINYL, DUAL-GLAZED, LOW-E OR EQUAL VERIFY WITH SCOPE OF WORK.
- WINDOW AND DOOR FINISH COLORS PER OWNER & GENERAL CONTRACTOR.
- ALL WINDOWS TO HAVE CLEAR GLASS U.O.N., ANY MUNTINS/GRIDS SHALL BE PER ELEVATIONS- STYLE TO BE VERIFIED WITH OWNER.
- THE GENERAL CONTRACTOR AND/OR WINDOW/DOOR CONTRACTOR/SUPPLIER SHALL FIELD VERIFY SIZE, STYLE OF ALL EXISTING WINDOWS TO BE REPLACED OR RETRO-FITTED PRIOR TO ORDER.
- 5. TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND VISIBLE WHEN THE UNIT IS INSTALLED NEW MANUFACTURED WINDOWS SHALL HAVE A LABEL ATTACHED WHICH INDICATES CERTIFICATION BY THE NATIONAL FENESTRATION RATING COUNCIL (NFRC) AND SHOWING COMPLIANCE WITH THE ENERGY
- CALCULATIONS. CONTRACTOR SHALL REFER TO TITLE 24 CALCULATIONS AFFIXED TO THESE PLANS FOR WINDOW U-VALUES AND SHADING COEFFICIENTS (SHGC).
- GLAZING FRAMES MADE OF VINYL MATERIAL SHALL HAVE WELDED CORNERS, METAL REINFORCEMENT IN THE INTERLOCKING AREA AND BE CERTIFIED TO THE MOST CURRENT EDITION OF ANSI/AAMA/NWWDA 101/I.S.2 STRUCTURAL REQUIREMENTS. (SDMC SEC. 145.0705 (a) 1)
- SILL HEIGHT: EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44-INCHES MEASURED FROM THE FINISH FLOOR (SEC. 1026.3).
- 10. GLAZING MATERIALS USED IN SKYLIGHTS, ROOFS, AND SLOPED WALLS ON BUILDINGS LOCATED WITHIN 300-FT. IN ANY DIRECTION, OF THE BOUNDARY BETWEEN BRUSH MANAGEMENT ZONES ONE AND TWO AS DEFINED IN SECTION 142.0412 OF THE LANDS DEVELOPMENT CODE, SHALL BE TEMPERED GLASS OR MULTI-LAYERED GLASS (SDMC SEC 145.0706 (c)).
- EXTERIOR WINDOWS, WINDOW WALLS, GLAZED DOORS, AND GLAZED OPENINGS WITHIN EXTERIOR DOORS SHALL BE INSULATED-GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE, OR GLASS BLOCK UNITS OR HAVE FIRE-RESISTANCE RATING OF NTO LESS THAN 20 MINUTES, WHEN TESTED ACCORDING TO NFPA 257, OR CONFORM TO THE PERFORMANCE REQUIREMENTS OF SFM 12-7A-2 (CBC SEC 704A.3.2.2)

### **ABBREVIATIONS** SHW ATTIC ACCESS ANCHOR BOLT SHT'G ABOVE SHWB AS CLOSE AS POSSIBLE SPEC. AIR CONDITIONER S.M.

A.B.

ABV.

AD.J

A.F.F

APPROX.

BTM.

C.A.

C.I.F

CLG

CLR

COL

CONC.

CONN.

CONST

CMU

COMPO

COND.

CONT.

CONC.

CSMT

DIA. (Ø

DIAG

DIM

DN.

D.W.

D/W

DWG

E.F.W.

ELEV.

EMBD.

E.N.

E.W.

F.A.U.

F.G.

FGL

FLG

FIN.

F.N.

FND.

F.O.S.

F.O.P.

FRM'G

FTG

GALV.

G.B.

GLB.

H.B.

HDR

HGR.

H.R.

HORZ.

IN. (")

KSI

lbs (#)

LDGR.

LTWT

MAT'L

MAX.

M.B.

M.C.

MECH.

MEZZ

MF

MIN.

MIR

MISC

MFR.

MTL.

NTS

OBSC

OPNG

P.C.C

PCF

PKT.

PLY.

PSI

PERP.

P.T.D.F.

QTY.

R.A.G.

REFRIG

REINF

RMV'D

REQ'D

R.O.

R.R.

SCH SGD

SGW

O.W.

P/C

O.C.

O.H

GYP. BD

G.F.C.I.

ΕV

F.P.

FLR.

FLANGE

FLOOR

FINISH

FEET

FIXE

EXSTG. (E

DIAPH.

CTR.

BTWN

A.C.A.P

ADJACENT

ALUMINUM

AI TERNATE

io**AW4N**(

BUILDIN

ABOVE FINISH FLOOR

APPROXIMATE(LY)

ARCHITECTURA

S & P STGR STRUC SQ. T.B. T & B T & G TEMP THK T.M.E. T.N. T.O.A T.O.P. T.O.W. TYP U.F.A. U.O.N. V.B. W.A WDO. WWF W.H. W.P.

TOE NAIL TOP OF FOOTING TOP OF PLATE TOP OF WALL TYPICAL UNDER FLOOR ACCESS UNLESS OTHERWISE NOTED VINYL VAPOR BARRIER WASHER WATER CLOSET WINDOW WELDED WIRE FABRIC WATER HEATER WATERPROOF

SINGLE HUNG WINDOW

SHEFT

SHEATHING

SPECIFICATIONS

SHEET METAL

SHELF & POLE

STAGGER(ED)

STRUCTURAL

SHEARWALL

TOWEL BAR

TOP & BOTTOM

TEMPERED

THICK

TRASH COMPACTOR

**TONGUE & GROOVE** 

TO MATCH EXISTING

SQUARE

SHOWFR

BLOCK SEAM BOUNDAR BOTTOM BETWEEN CHAMBER(I CANTILEVER PRJELEAR508T her ASE PAPENINC CAST-IN-PLACE CENTERLINE CEILING CLEAR COLUMN CONCRETE CONNECTION CONSTRUCTION CONCRETE MASONRY UNIT COMPOSITION CONDENSER CONTINUOUS CONCRETE CASEMENT CENTER(ED) PENNEY (NAILS) DRYFR DOUBLE DOUGLAS FIR DIAMETER DIAGONAL DIAPHRAGM DIMENSION DOWN DITTO (REPEAT) DEEP (DEPTH) DRIVEWAY DISHWASHER DRAWING EACH EACH FACE ENTIRE FACE OF WALL ELEVATION EMBEDMENT EDGE NAIL EQUAL FACH WAY EXISTING EXTERIOR

FORCED AIR UNIT FINISH FLOOR **FINISH GRADE** FIBERGLASS FIELD NAIL FOUNDATION FACE OF STU FACE OF POST FIRE PLACE FRAME(ING) HORIZONTAL

FOOTING FLAT VALLEY GUAGE GALVANIZE(D GRADE BEAM GYPSUM BOARD GARBAGE DISPOSAL

GROUND FAULT CIRCUIT INTERUPT GI ASS GLUE LAMINATED BEAM GUARDRAIL

HOSE BIB HOLD DOWN HEADER HANGER

HANDRAIL HEIGHT INCHES INTERIOR JOIST KIPS (1000)

**KIPS PER SQUARE INCH** ANGLE LAG BOLT POUNDS LEGER

LONG(ITUDINAL) LIGHT WEIGHT MATERIAL MAXIMUM MACHINE BOI T MEDICINE CABINET

MECHANICAL MF77ANINF MOMENT FRAME MINIMUM MIRROR MISCELLANEOUS MANUFACTURER

NEW NOT TO SCALE OVFR OBSCURE

METAL

ON CENTER OVERHANG OPENING OPEN WEB PRECAST CONCRETE PORTLAND CONC. CEMENT POUNDS PER CUBIC FT. POCKET PLATE

PLYWOOD PERPENDICULAR POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POST-TENSIONED PRESSURE TREADED PRESSURE TREADED DOUGLAS FIR QUANTITY

RADIUS **RETURN AIR GRILLE** REFRIGERATOR REINFORCEMENT REMOVED REQUIRED ROOF JOIST

ROUGH OPENING ROOF RAFTER

SLIDING GLASS DOOR

SLIDING GLASS WINDOW

SCHEDULE

SIMILAR

WITH WEIGHT VERITICAL **VERIFY IN FIELD** 

VFRT.

V.I.F.

# **ARCH. SYMBOLS**

x	SECTION
1 D1	DETAIL CALL-OUT
— W— W— W— W—	WATER LINE MAIN
- S - S - S -	SEWER LINE MAIN
- W W-	WATER METER
	ELECTRIC SERVICE METER
	GAS METER
6"	FLOOR ELEVATION CHANGE
	DOOR CALL-OUT
$\langle A \rangle$	WINDOW CALL-OUT
	BATHROOM EXHAUST FAN (5 AIR CHANGES/ HR, 50 CFM)
	HOSE BIB
	GAS CONNECTION
	SEWER CLEAN OUT (C.O.)
>	PROPERTY LINE
<	CENTER LINE
4:12	ROOF SLOPE
	ROOF ATTIC VENT
	SUPPLY AIR REGISTER
R.A.G	RETURN AIR GRILLE

HESE DRAWINGS ARE THE PROPRIETARY VORK PRODUCT AND PROPERTY OF BERARDO SERGIO DE LA RIVA JR. OR THE EXCLUSIVE USE OF GERAARDO SERGIO SERGIO SE OF THESE DRAWINGS AND CONCEPTS ONTAINED THEERIN WITHOUT THE VRITTEN PERMISSION GERAADO SERGIO DE LA IVA JR., IS PROHIBITED AND MAY UBJECT YOU TO A CLAIM FOR DAMAGES.	GERARDO SERGIO DE LA RIVA JR.				
CODE VIOLAT MORENC 913 AR JADU 909 A ADU 911 / SAN DIEC	DRK PRODUCT / ERARDO SERGIO IR THE EXCLUSI IE OF THESE DF INTAINED THER AITTEN PERMIS: /A JR., IS PROH IBJECT YOU TO	AND PROPE D DE LA RIV VE USE OF AWINGS AI EIN WITHO SION GERA IIBITED AND A CLAIM FC	ERTY OF A JR. GERARDO ND CONCE UT THE DO SERGI D MAY DR DAMAG	o sergio, PTS O DE LA ES.	

## ADDITIONAL NOTES

1. A listed raceway shall be provided to facilitate future installation of Electric vehicle charger in new one- and two-family dwellings and townhouses with attached private garages.

2. Raceway shall be not less than trade size 1 (nominal 1-in.inside diameter) to accommodate a dedicated 2018/240- volt branch circuit.

3. The EVCS 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 space.

4. The EVCS raceway shall be continuous at enclosed, inaccessible or concealed areas and spaces.

5. The EVCS services panel or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcorrent protective device.

6. The EVCS services panel or subpanel circuit directory shall identify:a) The overcurrent protective devise space(s) for future EV charging purposes as "EV

- CAPABLE)
- b) The raceway termination location as " EV CAPABLE"

7. During construction, at least one extinguisher shall be provided on each floor level at each stairway, in all storage and construction sheds, in locations where flammable or combustible liquids are stored or used, and where other special hazards are present per CFC Section 3315.1.

8. Building undergoing construction, alteration, or demolition shall conform to CFC chapter 33. Welding, Cutting, and other hot work shall be in conformance with CFC Chapter 35.

9. Roof gutters shall be provided with the means to prevent the accumulation of leaves and debris in the gutter. All roof gutters and downspouts shall be constructed of non-combustible materials. [CRC R337.5.4; SDMC 149.0327(e)(1)]

10. Drip edge flashing used at the free edges of roofing materials shall be non-combustible. [SDMC 149.0327(e)(2)]

11. Valley flashing's shall be not less than 0.019- inch(No. 26 galvanized sheet gage) corrosionresistant metal installed over a minimum 36-inche-wide underlayment consisting of one layer of No. 72 ASTM cap sheet running the full length of the valley. [CRC R337.5.3]

12. Chimneys, flues or stovepipes attached to any fireplace, stove barbeque or other solid or liquid fuel burning equipment or device shall be equipped with an approves spark arrestor. [SDMC 149.0327(h)].

13. Turbine attic vents shall be equipped to allow one-way direction rotation only and shall not free spin in both directions. [SDMC 149.0327(F)(3)]

14. Glazing frames made of vinyl materials shall have welded corners, metal 101/1.S.2 structural requirements. [SDMC 149.0327(g)]

15. 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 fixtures installed. A copy of the certification can be obtained from the development services department.

16. New residential development with a landscape area over 500 sq.ft. shall comply with one of the following [CAL Green 4.304.1]:

- 1) Local water efficient landscape ordinance or current California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO)
- Landscape areas less than 2500 sq.ft. may comply with MWELO's Appendix D Prescriptive Compliance Option.

17. 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. [CAL Green 4.406.1]

18. 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 2016 CAL Green 4.410.1.

19. 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. [CAL Green 4.504.1]

20. Paints, stains, coatings, adhesives, sealants and caulks shall comply with the Volatile organic Compound(VOC) limits listed in 2016 CALGreen Section 4.504.2.1.

21. The VOC Content Verification shall be made available to the City staff upon request.

22. All new and carpet cushions installed in the building interior shall meet the testing and product requirements of one of the follow:

- 1) Carpet and Rug Institute's Green label plus program
- California Department of Public Health Specification 01350
   NSF/ANSI 140 at the Gold Level
- 4) Scientific Certification Systems indoor Advantage TM Gold.

23. Eighty percent of the floor area receiving resilient flooring shall comply with one or more of the following [CAL GREEN 4.504.4]

- 1) VOC emission limits defined in the CHPS High Performance Products Database.
- Certified under UL GREENGUARD Gold
   Certification under the resilient Floor Covering institute(RFCI) Floors Score Program
   Meet the California Department of public Health specification 01350

24. New hardwood plywood, particle board, and medium density fiberboard(MDF) composite wood product used in the building shall meet the formaldehyde limits listed in 2016 CAL Green Table 4.504.5.

25. The Formaldehyde Emissions Verification shall be made available to City staff upon request.

26. 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.

27. 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. [2016 CAL Green 4.506.1]

## LIGHTING MEASURES

MANDATORY (CBEES 150.0(k)): LIGHTING RESIDENTIAL

- ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEES TABLE 150.0-A.
- ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "JA8-2016" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT http://cacertappliances.energy.ca.gov/Pages/ApplianceSearch.aspx
- 3. ALL RECESS DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JA8-2016-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT http://cacertappliances.energy.ca.gov/Pages/ApplianceSearch.aspx
- 4. RECESSED DOWN LUMINARES IN CEILING SHALL NOT BE SCREW-BASED.

SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR.

- 5. BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH
- 6. ALL LUMINAIRES REQUIRING "JA8-2016" OR "JA8-2016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR.
- . OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDING SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:

-PHOTOCONTROL AND MOTION SENSOR -PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL

- -ASTRONOMICAL TIME CLOCK -ENERGY MANAGEMENT CONTROL SYSTEM PER CBEES 150.0(k)3Aiiic
- 3. OTHER ROOMS: ALL LUMINARIES SHALL BE HIGH EFFICACY AND SHALL HAVE A MANUAL ON/OFF IN ADDITION TO A VACANCY SENSOR OR DIMMER.
- 9. KITCHENS: ALL THE INSTALLED WATTAGE OF LUMINAIRES IN KITCHENS SHALL BE HIGH EFFICACY AND SHALL HAVE A MANUAL ON/OFF IN ADDITION TO A VACANCY SENSOR OR DIMMER .. UNDER CABINET LIGHTING SHALL BE SWITCHED SEPARATELY.
- ALL INSTALLED LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH ES TABLE 150.0-A. LIGHT SOURCES THAT ARE NOT MARKED "JA8-2016-E" SHALL NOT BE INSTALLED IN ENCLOSED LUMINAIRES. ES 150.0(K)
- 11. RECESSED CAN LIGHT FIXTURES SHALL BE IC LISTED, AIR-TIGHT LABELED, AND NOT BE EQUIPPED WITH A STANDARD MEDIUM BASE SCREW SHELL LAMP HOLDER. ES 150.0 (K)
- 12. DIMMERS OR VACANCY SENSORS SHALL CONTROL ALL LED STYLE LUMINAIRES. TWO EXCEPTIONS: FIXTURES INSTALLED IN HALLWAY OR (CLOSETS UNDER 70 SQUARE FEET.
- 13. SFD OUTDOOR LIGHTING FIXTURES THAT ARE ATTACHED TO A BUILDING ARE REQUIRED TO BE HIGH EFFICACY, BE MANUALLY ON/OFF SWITCH CONTROLLED, AND HAVE BOTH MOTION SENSOR AND PHOTOCELL CONTROL. SEE ES 150.0(K) 3 FOR ADDITIONAL CONTROL OPTIONS.

## **INSULATION NOTES**

- 1. ROOF CAVITY/ATTIC INSULATION: MIN. R-30 BATT OR BLOWN IN FIBER INSULATION OR PER TITLE 24.
- PROVIDE MIN. R-15 BATT OR BLOWN IN FIBER INSULATION AT AFFECTED EXTERIOR WALLS

# ELECTRICAL NOTES

- ELECTRICAL OUTLETS SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 210.52
- LIGHTING OUTLETS CONTROLLED BY A SWITCH SHALL BE PROVIDED IN ACCORDANCE WITH NEC ARTICLE 210.70.
- B. LIGHT FIXTURES INSTALLED IN CLOTHES CLOSETS SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 410.8.
- 4. LIGHT FIXTURES ABOVE TUB/SHOWERS SHALL BE WATERPROOF RATED AND COMPLY WITH NEC ARTICLE 410.10
- 5. CONVENIENCE OUTLETS IN BATHROOMS, AT KITCHEN COUNTER TOPS WITHIN 6 FEET OF THE KITCHEN SINK, GARAGES AND IN BASEMENTS (OTHER THAN FOR LAUNDRY AND SIMILAR EQUIPMENT) SHALL BE G.F.C.I. PROTECTED. ALL OTHER OUTLETS EXPOSED TO THE ELEMENTS SHALL BE G.F.C.I. WEATHER PROOF OUTLETS. PER NEC ARTICLE 210.8.
- ELECTRICAL PANELS ARE NOT PERMITTED IN CLOTHES CLOSETS PER NEC ARTICLE 240.24 (D)
   R314.1 GENERAL. SMOKE ALARMS SHALL COMPLY WITH NFPA 72 AND SECTION R314.
- 8. R314.1.1 LISTINGS. SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217. COMBINATION SMOKE AND CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND UL 2034. SYSTEMS AND COMPONENTS SHALL BE CALIFORNIA STATE FIRE MARSHAL LISTED AND APPROVED IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS, TITLE 19, DIVISION 1 FOR THE PURPOSE FOR WHICH THEY ARE INSTALLED.
- 9. R314.6 POWER SOURCE. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS WITH INTEGRAL STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION.
- 10. R314.4 INTERCONNECTION. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING OR SLEEPING UNIT, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.
- 11. R315.6.1 GENERAL. HOUSEHOLD CARBON MONOXIDE DETECTION SYSTEMS SHALL COMPLY WITH NFPA 720. CARBON MONOXIDE DETECTORS SHALL BE LISTED IN ACCORDANCE WITH UL 2075.
- 12. R315.5 POWER SOURCE. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION.
- 13. R315.4 COMBINATION ALARMS. COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF CARBON MONOXIDE ALARMS. COMBINATION CARBON MONOXIDE/SMOKE ALARMS SHALL COMPLY WITH SECTION R315 AND ALL REQUIREMENTS FOR LISTING AND APPROVAL BY THE OFFICE OF THE STATE FIRE MARSHAL FOR SMOKE ALARMS.
- 14. R315.7 INTERCONNECTION. WHERE MORE THAN ONE CARBON MONOXIDE ALARM IS REQUIRED TO BE INSTALLED WITHIN A DWELLING UNIT OR WITHIN A SLEEPING UNIT IN GROUP R OCCUPANCIES, THE ALARMS SHALL BE INTERCONNECTED IN A MANNER THAT ACTIVATION OF ONE ALARM SHALL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT.
- 15. RECEPTACLES SHALL BE TAMPER-RESISTANT FOR ALL RECEPTACLES IN DWELLING UNIT FAMILY, DINING, LIVING, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS AND AREAS PER NEC ARTICLE 210.52(A) & NEC ARTICLE 406.12.
- 16. BATHROOM BRANCH CIRCUIT: IN ADDITION TO THE NUMBER OF BRANCH CIRCUITS REQUIRED BY NEC. SECTION 210. AT LEAST ONE 120-VOLT, 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOM(S) RECEPTACLE OUTLET(S). SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS. EXCEPTION: WHERE THE 20-AMPERE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR OTHER EQUIPMENT WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE SUPPLIED IN ACCORDANCE WITH 210.23(A)(1) AND (A)(2)
- 17. PROVIDE "UFER" GROUND PER NEC ARTICLE 250.52.
- 18. SMOKE ALARMS SHALL BE TESTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SMOKE ALARMS THAT NO LONGER FUNCTION SHALL BE REPLACED. SMOKE ALARMS INSTALLED IN ONE, AND TWO-FAMILY DWELLINGS SHALL BE REPLACED AFTER 10 YEARS FROM THE DATE OF MANUFACTURE MARKED ON THE UNIT, OR IF THE DATE OF MANUFACTURE CANNOT BE DETERMINED.
  DATE OF MANUFACTURER MARKED ON EXISTING SMOKE ALARM UNITS: 2010, SEP. 17
- 19. PROVIDE A PERMANENT ELECTRICAL RECEPTACLE OUTLET AND LIGHTING FIXTURE CONTROLLED BY A SWITCH LOCATED AT THE ENTRANCE FOR FURNACES LOCATED IN AN ATTIC. CMC SECTION 904.10.
- INCLUDE ON THE PLANS THE FOLLOWING SPECIFICATIONS FOR ELECTRICAL DEVICES INSTALLED IN DWELLINGS: CEC ARTICLE 210 & 406
   ARC-FAULT PROTECTION FOR ALL OUTLETS LOCATED IN ROOMS DESCRIBED IN NEC 210.12 (A): KITCHEN
- b. GFCI PROTECTED OUTLETS FOR LOCATIONS DESCRIBED IN NEC 210.8(A): KITCHENS, GARAGES BATHROOMS,
- OUTDOORS WITHIN 6' OF A SINK, ETC & OUTDOORS. 21. PROVIDE A WALL RECEPTACLE WITHIN 36" OF EACH LAVATORY IN THE BATHROOMS. CEC 210.52(D).
- 22. ANY EXISTING SMOKE ALARMS THAT ARE MORE THAN 10 YEARS OLD WILL BE REPLACED. SECTION R314.3.1

## MECHANICAL NOTES

- 5 AIR CHANGES PER HOUR IS REQUIRED FOR ALL MECHANICAL VENTILATION IN BATHROOMS AND LAUNDRY ROOMS. PROVIDE BACKDRAFT DAMPERS EXHAUSTING AIR FROM BUILDING. PROVIDE A MIN. 50 CFM'S PER UNIT
- 2. THE RETURN AIR PLENUM SERVING THE MECHANICAL EQUIPMENT MUST BE FULLY DUCTED FROM THE EQUIPMENT TO THE CONDITIONED SPACE. DROP CEILINGS, WALL CAVITIES AND EQUIPMENT PLATFORMS MAY NOT BE USED AS PLENUMS.
- 3. MECHANICAL DUCTING CONNECTIONS MAY USE DUCT TAPE AS A MINIMUM, PROVIDED THE TAPE MEETS THE REQUIREMENTS OF UL181, 181A, 181B, OR ADDITIONAL DUCT ATTACHMENT DEVICES SUCH AS TIE WRAPS OR MASTIC SHALL BE USED FOR INSTALLING MECHANICAL DUCTING.
- 4. CRANEW HEAT MUSICAND OR COLOR SYSTEMS A SETBACK THERMOSTAT SHALL BE PROVIDED PER TITLE 24.
- 5. SATHHORMSSHALL BE MULTER IN ACCORDANCE WITH THE MECHANICAL CODE, PER
- 6. ALL ROOMS TO HAVE HEAT DOWNSTALLED PER SPECIFICATIONS.
- 7. THE MAXIMUM HORIZONTAL AND VERTICAL LENGTH FOR A 4" DIA. CLOTHES DRYER(S) VENT(S) IS 14 FEET WITH TWO OFFSETS. THE MAXIMUM LENGTH IS REDUCED 2 FEET FOR EACH ADDITIONAL BEND. PROVIDE BACKDRAFT DAMPERS 55 14 JUSTING AIR FROM BUILDING.

EXCEPTION #1039501. DUCT WITH AN IN-LINE FAN. "FANTECH DBF4XLT" EXCE**PTION** #2010 BUCT UP TO 25 FEET EXCEPTION #3 - PROVIDE CALCULATIONS AND COMPLETE DETAILS

- 8. A MECHANICAL EXHAUST SYSTEM, SUPPLY SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR COMPLYING WITH ASHBAE STANDARD 62.2-2007 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
- DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED DURING CONSTRUCTION. (CGBSC 4.504.1)
- 0. EXHAUST FANS SHALL TERMINATE NOT LESS THAN 3 FEET FROM ANY OPENING THAT ALLOWS AIR INTO
- OCCUPIED PORTIONS OF THE BUILDING.
  1. EXTERIOR VENT TO BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES WITH
- OPENINGS 1/4-INCH TO 1/2-INCH IN SIZE. (CMC 504.1, 504.5, CRC R303.5) 12. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED AND MECHANICAL EQUIPMENT IS TO
- BE COVERED. 13. MECHANICAL EXHAUST FANS WHICH VENT DIRECTLY FROM BATHROOM SHALL COMPLY WITH THE
- FOLLOWING: (PER 2016 GREEN CODE SEC 4.506.1): A. BATHROOM FANS SHALL BE "ENERGY STAR" COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING
- B. 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.
- 14. THE PASSAGEWAY TO THE MECHANICAL EQUIPMENT IN THE ATTIC SHALL BE UNOBSTRUCTED, HAVE CONTINUOUS SOLID FLOORING NOT LESS THAN 24 INCHES WIDE, AND BE NOT MORE THAN 20 FEET IN LENGTH FROM THE ACCESS OPENING TO THE APPLIANCE. CMC SECTION 904.10.
- 15. RESIDENTIAL VENTILATION REQUIREMENTS:
  - KITCHENS REQUIRE EXHAUST FANS WITH A MINIMUM 100 CFM DUCTED TO THE EXTERIOR. DETAIL COMPLIANCE BY INCLUDING A COMPLYING EXHAUST FAN OR A DUCTED RANGE HOOD TO THE EXTERIOR.
  - BATHROOMS REQUIRE EXHAUST FANS (MINIMUM 50 CFM) TO BE DUCTED TO THE EXTERIOR. A BATHROOM IS DEFINED "AS A ROOM WITH A BATHTUB, SHOWER, OR SPA OR SOME SIMILAR SOURCE OF MOISTURE".
  - ALL FANS INSTALLED TO MEET ALL OF THE PRECEDING REQUIREMENTS MUST BE SPECIFIED AT A NOISE RATING OF A MAXIMUM 1 "SONE" (FOR THE CONTINUOUS USE CALCULATION) OR 3 "SONE" (FOR THE INTERMITTENT USE CALCULATION).
- 17. CALGREEN CODE RESIDENTIAL MANDATORY MEASURES, SECTION 4.507.2: HEATING AND AIR CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED, AND EQUIPMENT SELECTED USING THE FOLLOWING METHODS:
- 1. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J 2011 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- 2. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D 2014 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S 2014 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
   EXCEPTION: USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO ENSURE THE SYSTEMS FUNCTIONS ARE ACCEPTABLE.
- 18. PER 2016 GREEN CODE, 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.
- 19. PROVIDE A WATERTIGHT PAN OF CORROSION RESISTANT MATERIALS BENEATH THE WATER HEATER, WITH A MINIMUM 3/2" INCH DIAMETER DRAIN LINE TO A DRAIN.

# PLUMBING NOTES:

- . IN SHOWERS AND TUB/SHOWER COMBINATIONS, CONTROL VALVES MUST BE PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. CPC SECTION 420.0
- 2. PERMANENT VACUUM BREAKERS SHALL BE INCLUDED WITH ALL NEW HOSE BIBBS.
- 3. STATE HEALTH AND SAFETY CODE SEC. 17921.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) AND CROSS LINKED POLYETHYLENE (PEX) FOR INTERIOR WATER-SUPPLY PIPING.
- 4. THE CALIFORNIA PLUMBING CODE SECTION 507.02 REQUIRES THAT ALL WATER HEATERS ARE TO BE SUPPORTED AND STRAPPED TO PREVENT MOVEMENT DURING AN EARTHQUAKE. SUPPORT TO BE A STAND OR PLATFORM, AT LEAST 18" ABOVE FINISH FLOOR. TWO STRAPS ARE TO BE USED. STRAPPING TO BE NOT LESS THAN 22 GAUGE AND NOT LESS THAT 5/8" WIDE. ONE STRAP TO BE LOCATED IN THE UPPER 1/3 OF THE WATER HEATER, AND ONE STRAP TO BE LOCATED IN THE BOTTOM 1/3 OF THE WATER HEATER. CONNECTION TO WALL FRAMING TO BE MADE BY THE USE OF SCREWS NOT LESS THAT 1/4" IN SIZE AND WITH A MINIMUM PENETRATION OF 1-1/2" INTO FRAMING MEMBER. A CUT WASHER SHALL BE USED BETWEEN THE SCREW HEAD AND THE STRAP TO ENSURE POSITIVE SUPPORT.
- 5. PROVIDE AN 18" HIGH PLATFORM FOR ANY FAU OR ANY OTHER DEVICE (SEE WATER HEATER NOTE#7) IN THE GARAGE WHICH MAY GENERATE A FLAME OR SPARK. CPC SECTION 508.14
- SHOWER COMPARTMENTS AND WALLS ABOVE BATHTUBS WITH SHOWER HEADS INSTALLED SHALL BE FINISHED WITH A SMOOTH, NONABSORBENT SURFACE TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE FLOOR. CRC R307.2
- ALL PLUMBING FIXTURES AND FITTINGS WILL BE WATER CONSERVING AND WILL COMPLY WITH THE 2016 CGBSC. (SEE CALGREEN WATER FIXTURE FLOW RATES BELOW)
- 8. FOR ADDITIONS OR IMPROVEMENTS TO A RESIDENCE BUILT BEFORE 1994, EXISTING "NONCOMPLIANT" FIXTURES (TOILETS THAT USE MORE THAN 1.6 GALLONS OF WATER PER FLUSH, URINALS THAT USE MORE THAN ONE GALLON OF WATER PER FLUSH, SHOWERHEADS THAT HAVE A FLOW CAPACITY OF MORE THAN 2.5 GALLONS OF WATER PER MINUTE, AND INTERIOR FAUCETS THAT EMIT MORE THAN 2.2 GALLONS OF WATER PER MINUTES) SHALL BE REPLACED. CERTIFICATION OF COMPLIANCE SHALL BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO FINAL PERMIT APPROVAL. CALIFORNIA SB407.
- ALL DOMESTIC HOT WATER PIPING TO HAVE THE FOLLOWING MINIMUM INSULATION INSTALLED: 1/2" PIPE (1/2" INSULATION), 3/4" PIPE (1" INSULATION), 1" TO 1-1/2" PIPE (1-1/2" INSULATION) CPC 609.11 & ES 150.0(J)
   ADDITIONALLY: THE 1/2" HOT WATER PIPE TO THE KITCHEN SINK, AND THE COLD WATER PIPE WITHIN 5' OF THE WATER HEATER BOTH REQUIRE 1" MINIMUM INSULATION. ES 150.0 (J).
- 0. BELOW GRADE HOT WATER PIPING IS REQUIRED TO BE INSTALLED IN A WATERPROOF AND NON-CRUSHABLE SLEEVE OR CASING THAT ALLOWS FOR REPLACEMENT OF BOTH THE PIPING AND INSULATION.

### CALGREEN WATER FIXTURE FLOW RATES

### SECTION 4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

4.303.1.1 WATER CLOSETS. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.

NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

4.303.1.2 URINALS. THE EFFECTIVE FLUSH VOLUME OF WALL MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. THE EFFECTIVE FLUSH VOLUME OF ALL OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

4.303.1.3.1 SINGLE SHOWERHEAD. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATER SENSE SPECIFICATION FOR SHOWERHEADS.

4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL 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 ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

4.303.1.4 FAUCETS.

4.303.1.3 SHOWERHEADS.

4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.

4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS. THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.

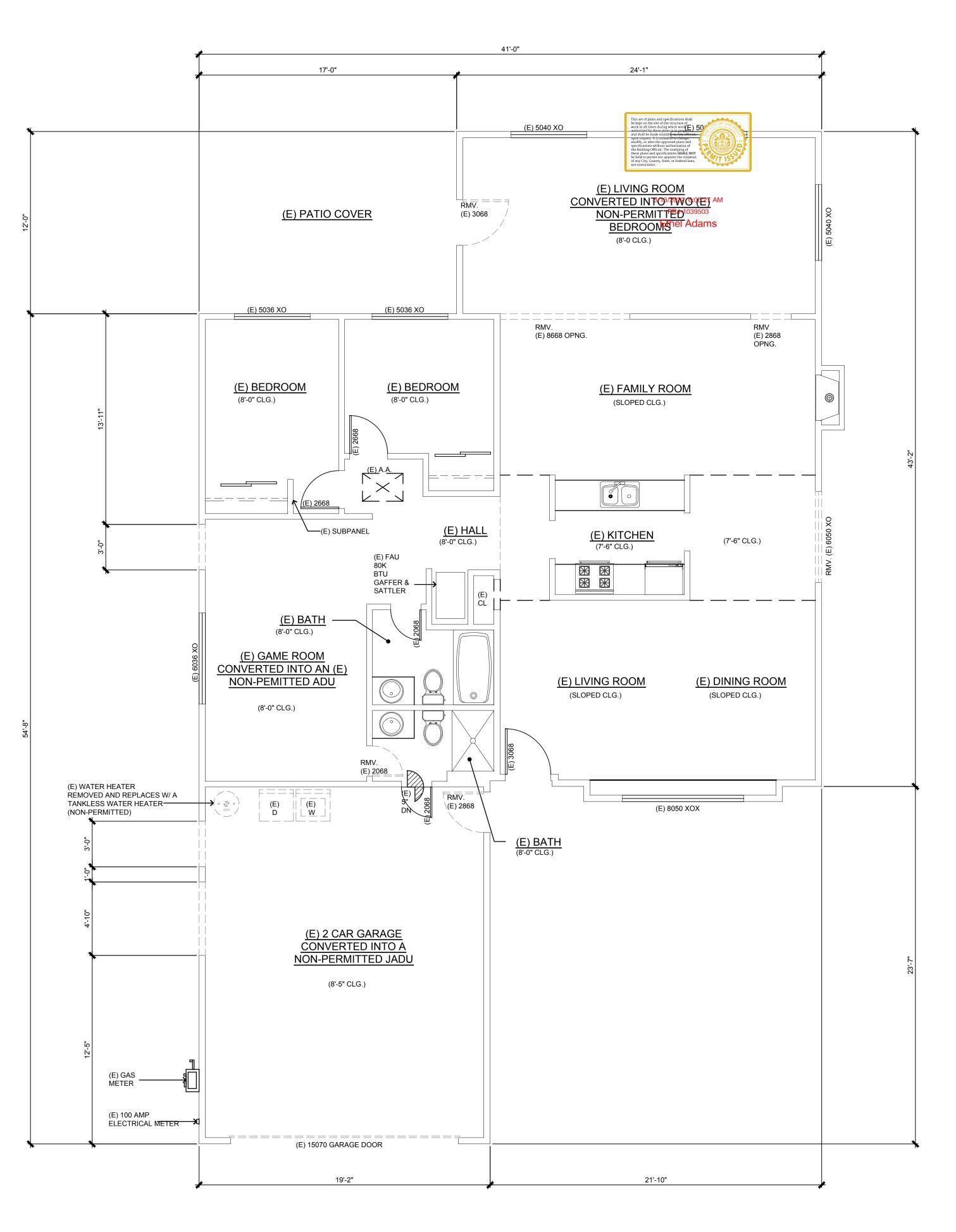
4.303.1.4.3 METERING FAUCETS. METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS SHALL NOT DELIVER MORE THAN 0.25 GALLONS PER CYCLE.

4.303.1.4.4 KITCHEN FAUCETS. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

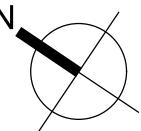
NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.

ERARDO SERGIO DE LA RIVA JR.	ORO VISTA RD 104 DIEGO CA 92154 619.554.6422
THESE DRAWINGS A WORK PRODUCT AN GERARDO SERGIO I FOR THE EXCLUSIVI USE OF THESE DRA' CONTAINED THEREI WRITTEN PERMISSI RIVA JR., IS PROHIE	ARE THE PROPRIETARY ID PROPERTY OF DE LA RIVA JR. E USE OF GERARDO SERGIO, WINGS AND CONCEPTS N WITHOUT THE ON GERADO SERGIO DE LA
CODE VIOLATION # CE-0509836 MORENO RESIDENCE	913 ARRECIFE CT JADU 909 ARRECIFE CT & ADU 911 ARRECIFE CT & SAN DIEGOCA, 92154
PROJECT Drawn By Date 08.26 Recheck #1 Recheck #1 Recheck #1 APN : 631- Sca PER	GERARDO .21 I 10.12.21 I <b>254-18-00</b>







<b>GERARDO SERGIO</b>	DE LA RIVA JR.	1484 ORO VISTA RD 104	SAN DIEGO CA 92154	CELL 619.554.6422
THESE DRAW WORK PROE GERARDO S FOR THE EX USE OF THE CONTAINED RIVAJR., IS SUBJECT YC	DUCT AND F ERGIO DE I CLUSIVE U SE DRAWIN THEREIN V ERMISSION PROHIBITE DU TO A CLI	PROPERTY LA RIVA JR. SE OF GER NGS AND CO VITHOUT TH GERADO S ED AND MAN	OF ARDO SEF DNCEPTS IE ERGIO DE MAGES.	,
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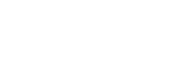
## WALL LEGEND

WALL TO BE REMOVED EXISTING 2 x STUD WALL TO REMAIN (E) NON-PERMITTED 2 x 4 STUD WALL FRAMED @ 16" O.C. NEW 2 x 6 STUD WALL FRAMED @ 16" O.C.

	DOOR SCHEDULE FINISH: ST. = STAIN GRD., PT. = PAINT GRD. TYPE: HC. = HOLLOW CORE, SC. = SOLID CORE STYLE: PNL. = RAISED PANEL, FL. = FLUSH								
SYMBOL	SIZE	TYPE	STYLE				REMARKS:		
1	2868	HC	НС				(E) NON-PERMITTED		
2	3068	HC.	HC				(E) NON-PERMITTED		
3	3068	HC.	HC.				(E) NON-PERMITTED		
4	2668	HC.	HC.				(E) NON-PERMITTED		
5	2868	HC.	HC.				(E) NON-PERMITTED		
6	2868	HC.	HC.				(E) NON-PERMITTED		
7	6060	GLASS	SLIDING				(E) NON-PERMITTED TEMPERED		

# WINDOW SCHEDULE

SYMBOL	"L"	"H"	TYPE	S.F.	UFACTOR	SHGC	NOTES
А	4'-0"	4'-0"	ХО	16	.32	.25	
В	5'-0"	3'-0"	хо	15	.32	.25	(E) NON-PERMITTED WINDOW TEMPERED



1.5" MIN. .75" MAX DN

(E) CONCRETE FLATWORK

NOTE: THE LARGEST PIECE OF EQUIPMENT CAN BE MOVED THROUGH THE OPENING. FOR ATTIC OPENING

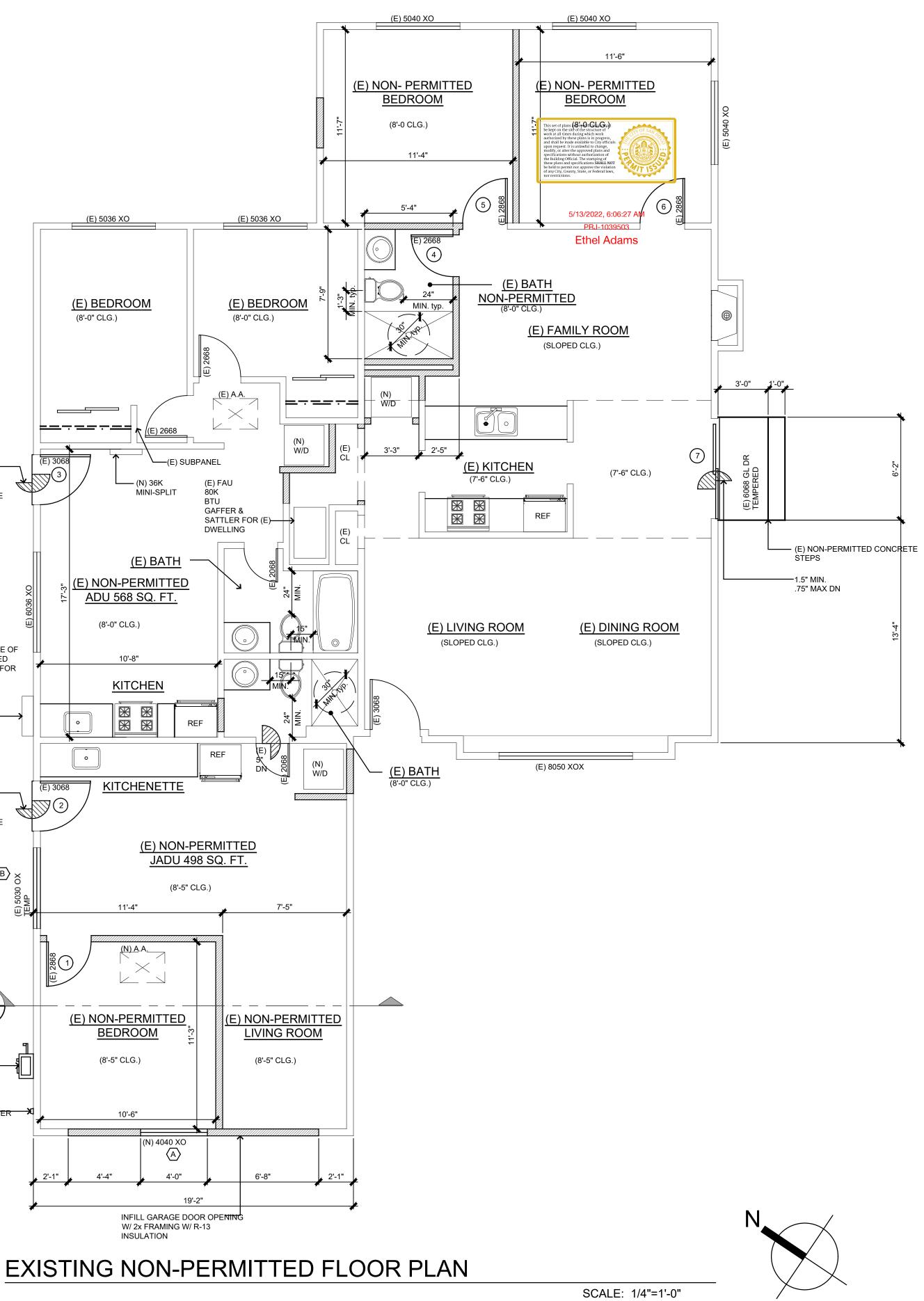
(N) NORITZ TANKLESS — WATER HEATER MODEL N-0931M-ASME INPUT 250,000 BTU NATURAL GAS

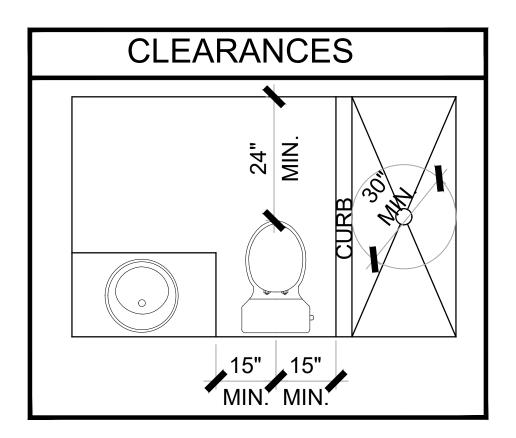
> 1.5" MIN. .75" MAX DN (E) CONCRETE FLATWORK

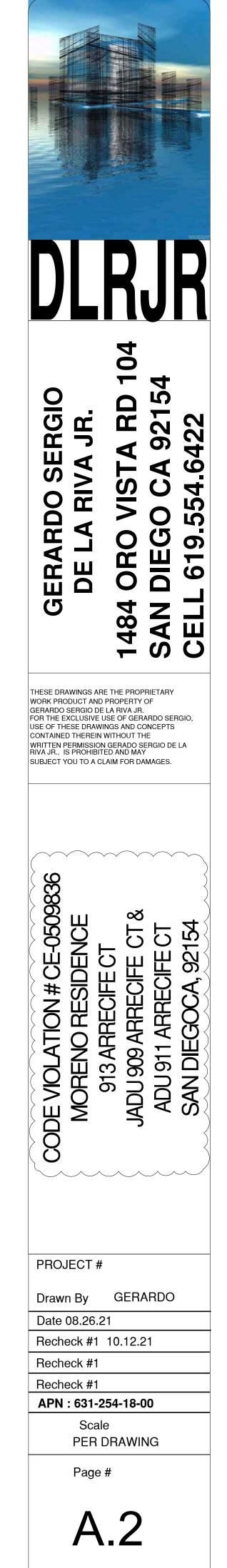
A A4 (E) GAS METER

∕₿>

(E) 100 AMP ELECTRICAL M<del>ETER</del>



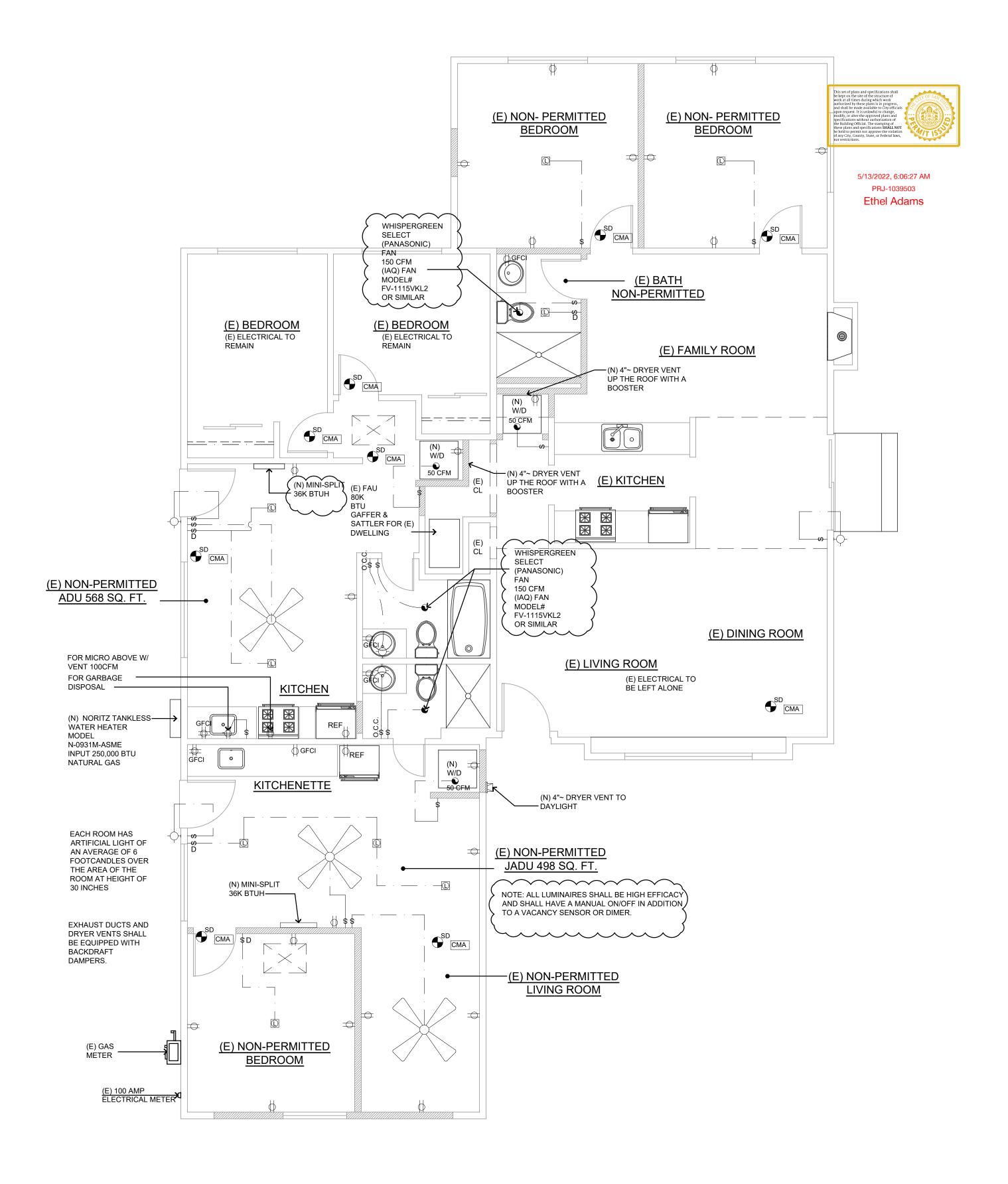




WALL LEGEND	WALL	LEGE	ND
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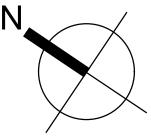
WALL TO BE REMOVED

EXISTING 2 x STUD WALL TO REMAIN (E) NON-PERMITTED 2 x 4 STUD WALL FRAMED @ 16" O.C. NEW 2 x 6 STUD WALL FRAMED @ 16" O.C.



ELECTRICAL FLOOR PLAN

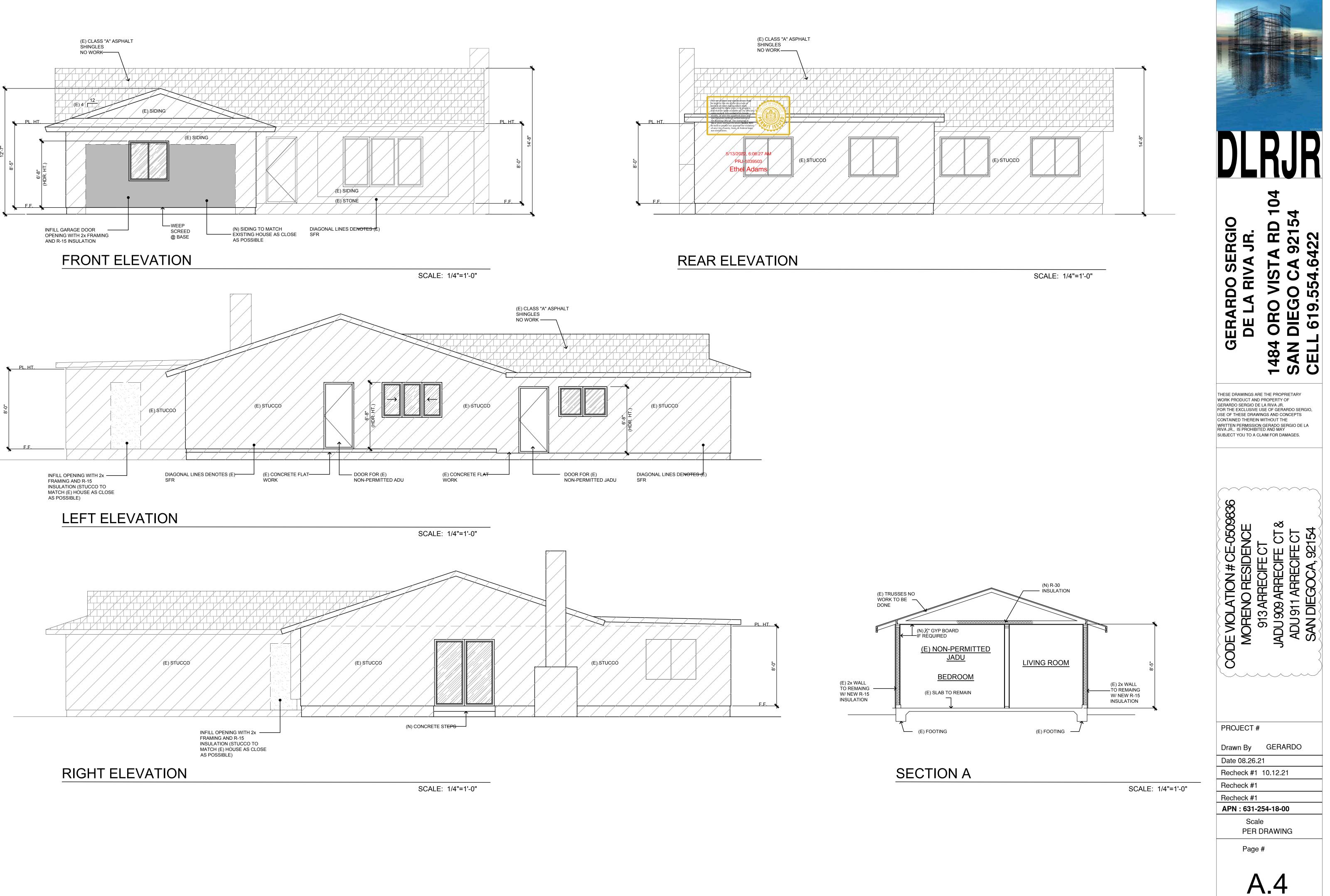
SCALE: 1/4"=1'-0"



## ELECTRICAL SYMBOLS LEGEND

	LECTRICAL 3		
⇔	DUPLEX 110V OUTLET QUADRUPLE 110V OUTLET	ιψ	SURFACE MOUNTED LIGHT FIXTURE (HOT TAIL)
₩ ₩ ₩	220V OUTLET G.F.C.I. OUTLET	ф-	SURFACE MOUNTED LIGHT FIXTURE (WITH TIMER)
	WATERPROOF G.F.C.I.	ŀФ-	SURFACE MOUNTED LIGHT FIXTURE (PHOTOVOLTAIC WITH TIMER)
WP		-ф-	SURFACE MOUNTED LIGHT FIXTURE
÷	SWITCHED OUTLET	-@-	PENDANT LIGHT
<b>⇔</b>		$\mathbb{R}$	AREA FLOOD LIGHT w/
DW	DISHWASHER OUTLET	<b>4 b</b>	DAYLIGHT/MOTION SENSOR
\$	SINGLE POLE SWITCH	● <sub>B</sub>	BATTERY OPERATED SMOKE DETECTOR
\$ <sub>3</sub>	THREE WAY SWITCH		CARBON MONOXIDE ALARM -
\$4	FOUR WAY SWITCH	CMA	PERMANENTLY WIRED w/ BATTERY BACK UP
<b>\$</b> D	DIMMER SWITCH	$\rightarrow$	CABLE TV HOOK-UP
\$ M-O-S	MANUALLY -ON OCCUPANCY SENSOR SWITCH	$\sim$	CAT 5 CABLE JACK
ψ	WALL MOUNTED LIGHT FIXTURE		TELEPHONE JACK
μ	WALL MOUNTED LIGHT FIXTURE w/ DAYLIGHT / MOTION SENSOR		DOOR BELL BUTTON
	EMERGENCY FLOOD LIGHT w/ BATTERY BACKUP		<ul> <li>SURFACE MOUNTED FLUORESCENT FIXTURE</li> </ul>
		LED	LED SURFACE MOUNTED FLUORESCENT FIXTURE
$\bigcirc \bigcirc$	FAN/LIGHT COMBO	)	CRECESSED FLUORESCENT FIXTURE
Ì	VENT FAN		
	INTERCOM PANEL	SD	WALL MTD. PERM. WIRED SMOKE DET. W/ BATTERY BACK-UP
	ELECTRIC SERVICE PANEL	● <sub>SD</sub>	CLG. MTD. PERM. WIRED SMOKE DET. W/ BATTERY BACK-UP
$\Theta_{\overline{EI}}$	FIRE PLACE ELECTRICAL IGNITION		DOOR CHIME
Ø	RECESSED FLUORESCENT FIXTURE 4 PIN CFL 26 WATT		
O	LED CAN LIGHT FIXTURE HIGH EFFICIENCY	$\rightarrow$	CEILING FAN
$\bigcirc$	RECESSED LIGHT FIXTURE		ALARM KEY PAD
0	W/ DIRECTIONALITY		ELECTRIC SUB-PANEL
$(\bullet)$	PUCK LIGHT FIXTURE		H GAS
$\odot$	RECESSED SPOT LIGHT FIXTURE	—-E	HOSE BIB
J	JUNCTION BOX	>	- UNDER CABINET LED LIGHTING
		jwijwijwijwijw	UNDER CABINET POWER STRIPS





### CERTIFICATE OF COMPLIANCE Project Name: 913 ARRECIFE COURT ALTERATION

Calculation Date/Time: 2021-08-25T16:42:42-07:00

CF1R-PRF-01E (Page 7 of 8)

Input File Name: 913 ARRECIFE COURT ALTERATION (E+A+A1).ribd19

10 Status Existing 14	11       Verified       Existing       Condition       No	12 Existing HVAC System n/a
Existing 14	Existing Condition No	HVAC System
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		16
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ired Fan Effic	ciency (Watts/CFM	)
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CERTIFICATE OF COMPLIANCE	CF1R-PRF-01E
Project Name: 913 ARRECIFE COURT ALTERATION	Calculation Date/Time: 2021-08-25T16:42:42-07:00 (Page 8 of 8)
Calculation Description: TITLE 24 COMPLIANCE	Input File Name: 913 ARRECIFE COURT ALTERATION (E+A+A1).ribd19
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
LAWRENCE GORDON	×
Company:	Signature Date:
LRG DESIGNS,LLC	2021-08-25 17:35:39
Address:	CEA/ HERS Certification Identification (If applicable):
1207 W. 112TH STREET	
City/State/Zip:	Phone:
LOS ANGELES, CA 90044	323-955-9827
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
	ompliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. are consistent with the information provided on other applicable compliance documents, worksheets,
Responsible Designer Name: LAWRENCE GORDON	Responsible Designer Signature:
Company: LRG DESIGNS,LLC	Date Signed: 2021-08-25 17:35:39
Address: 1207 W. 112TH STREET	License: NA
City/State/Zip: LOS ANGELES, CA 90044	Phone: 323-955-9827

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 Number: 221-P010178704A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Registration Date/Time: 2021-08-25 17:35:39 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider: CalCERTS inc. Report Generated: 2021-08-25 16:44:26

Easy to Verify at CalCERTS.com

### CERTIFICATE OF COMPLIANCE

FENESTRATION / GLAZING

01

Name

(E) Window 1

(E) Window 2

Door 7(1)

(E) Window 3

(E) Window 4

OPAQUE DOORS

01

Name

(E) Door 1

Project Name: 913 ARRECIFE COURT ALTERATION Calculation Description: TITLE 24 COMPLIANCE

02

Туре

Window

Window

Window

Window

03

Surface

FRONT

WALL 1

REAR

EXTERIOR

WALL 1 RIGHT

EXTERIOR

WALL 1

REAR

EXTERIOR

WALL 1

RIGHT

WALL 1

02

Side of Building

FRONT EXTERIOR WALL 1

Window EXTERIOR

EXTERIOR

\zimuth i

237

57

147

147

**Drientation** 

Front

Back

Right

Back

Right

### Calculation Date/Time: 2021-08-25T16:42:42-07:00 Input File Name: 913 ARRECIFE COURT ALTERATION (E+A+A1).ribd19

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110.6-В

Tables

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(ft) (ft)

8

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Area (ft<sup>2</sup>)

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### CF1R-PRF-01E (Page 4 of 8)

Verified

n/a

No

No

06

Verified Existing Condition

No

Status Existing Condition

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03		Project Locatio	913 ARRECIFE CO													
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	•				ENERGY USE	SUMMARY										
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	Compliance E	Energy Total		88.3			87.5		0.8		(	.9				
Registration CA Building I	221-P01	0178704A-000-000-000 Standards - 2019 Res		2	Report V	tion Date/Time 21 Version: 2019.1. Version: rev 20	021-08-25 17:35: 100	:39	HERS Pro	ovider: ienerated: 20	21-08-25	CalCERTS inc. 16:44:26			I	AIL.COM
Project Nam Calculation REQUIRED SP	Description: TI	FE COURT ALTERAT TLE 24 COMPLIANC	E	ing the modeled		Input File Na	<b>me:</b> 913 ARR	021-08-25T16:4 RECIFE COURT AI analysis.		E+A+A1).rib		F1R-PRF-01E (Page 2 of 8)			478	LES, CA 90047 527 DESIGNS914@GMAII
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Cooling Syste Non- Heating Syste Non- Heating Syste Non- Heating Syste Non- Heating Syste Non-  BUILDING - F 	e err Verifications: e err Verifications: e err Verifications: e err Verifications: e e e EATURES INFORM 0  ECTRE SINFORM 0  ECTRE COURT ERATION  ATION  ATION  ATION  ATION  ATION  ATTON  AT	f a duct system comp   /erifications:   MATION   02   Conditioned Floc   1008   20178704A-000-000-000   Conditioned   02   Conditioned   02   Conditioned   02   Conditioned   03   SFD   (E) R-0 STUC   WALL   SFD   (E) R-0 STUC   SFD   (E) R-0 STUC   WALL   SFD   (E) R-0 STUC <tr< td=""><td>Area (ft²)       Num         Area (ft²)       Num         Image: Area (ft²)       Num         Image: Area (ft²)       Image: Area (ft²)         Image: Area (ft²)       <t< td=""><td>03         ber of Dwelling         1         1         em 1         em 1         05         O7         Back         Front         Back         In/a         268.75         166.25         166.25         Roof R</td><td>is altered is altered</td><td>04      r of Bedrooms      2      4      Area (ft²)      08      2      4      Area (ft²)      08      calculation E      Input File Na      a (ft²)      Quert      64      25      64      25      64      25      64      25      64      25      7      64      64      7</td><td>Registry         Image: Segistry         Image: Segistry</td><td>05     1       05     1       1     1       5     1       ng Height     Wathstress of the second second</td><td>Number of Vi Cooling Sy 0 0 /ater Heating DHW Syst HERS Pro Report G Report G 2:42-07:00 LTERATION ( 09 Status Existing Existing Existing Existing Existing Existing Existing O9 Status 09 Status 09 Status 09 Status 09 Status 09 Status 09 Status Existing Existing Existing Existing Existing Existing Existing</td><td>entilation stems</td><td>Heatir Mater Heat N 21-08-25</td><td>07 er of Water g Systems 1 </td><td>O D PROJECT:SFD ALTERATION, ADU, AND</td><td>The site ADDRESS: 909, 911, 913 ARRECIFE</td><td>5AN DIEGO, CA 42154</td><td>OWNER: MORENO RESIDENCE (323) EMAI</td></t<></td></tr<>	Area (ft²)       Num         Area (ft²)       Num         Image: Area (ft²)       Num         Image: Area (ft²)       Image: Area (ft²)         Image: Area (ft²) <t< td=""><td>03         ber of Dwelling         1         1         em 1         em 1         05         O7         Back         Front         Back         In/a         268.75         166.25         166.25         Roof R</td><td>is altered is altered</td><td>04      r of Bedrooms      2      4      Area (ft²)      08      2      4      Area (ft²)      08      calculation E      Input File Na      a (ft²)      Quert      64      25      64      25      64      25      64      25      64      25      7      64      64      7</td><td>Registry         Image: Segistry         Image: Segistry</td><td>05     1       05     1       1     1       5     1       ng Height     Wathstress of the second second</td><td>Number of Vi Cooling Sy 0 0 /ater Heating DHW Syst HERS Pro Report G Report G 2:42-07:00 LTERATION ( 09 Status Existing Existing Existing Existing Existing Existing Existing O9 Status 09 Status 09 Status 09 Status 09 Status 09 Status 09 Status Existing Existing Existing Existing Existing Existing Existing</td><td>entilation stems</td><td>Heatir Mater Heat N 21-08-25</td><td>07 er of Water g Systems 1 </td><td>O D PROJECT:SFD ALTERATION, ADU, AND</td><td>The site ADDRESS: 909, 911, 913 ARRECIFE</td><td>5AN DIEGO, CA 42154</td><td>OWNER: MORENO RESIDENCE (323) EMAI</td></t<>	03         ber of Dwelling         1         1         em 1         em 1         05         O7         Back         Front         Back         In/a         268.75         166.25         166.25         Roof R	is altered is altered	04      r of Bedrooms      2      4      Area (ft²)      08      2      4      Area (ft²)      08      calculation E      Input File Na      a (ft²)      Quert      64      25      64      25      64      25      64      25      64      25      7      64      64      7	Registry         Image: Segistry	05     1       05     1       1     1       5     1       ng Height     Wathstress of the second	Number of Vi Cooling Sy 0 0 /ater Heating DHW Syst HERS Pro Report G Report G 2:42-07:00 LTERATION ( 09 Status Existing Existing Existing Existing Existing Existing Existing O9 Status 09 Status 09 Status 09 Status 09 Status 09 Status 09 Status Existing Existing Existing Existing Existing Existing Existing	entilation stems	Heatir Mater Heat N 21-08-25	07 er of Water g Systems 1 	O D PROJECT:SFD ALTERATION, ADU, AND	The site ADDRESS: 909, 911, 913 ARRECIFE	5AN DIEGO, CA 42154	OWNER: MORENO RESIDENCE (323) EMAI

	: 913 ARRE	CIFE COUR	T ALTERATION						<b>::</b> 2021-08-25T1				CF1R-PRF-01E (Page 1 of 8)	REVI	SION /	DATE
alculation De	-	TITLE 24 CO	OMPLIANCE				Input File N	ame: 913 /	ARRECIFE COUR	T ALTERATION	(E+A+A1).r	bd19		$\land$		
01		Pi	Project Name 913			ON										
02 03		Proj	ject Location 913													
04 06			City SAI	N DIEGO, CA 157			05 07			is Version 2019 re Version CBEC		.1 (1107)		$\wedge$		
08			Climate Zone 7 Building Type Sin	gleFamily			09 11		Drientation (deg/ Number of Dwel							
12		Pi	Project Scope Ad		in		13		Number of I	Bedrooms 2						
14 16			oor Area (ft <sup>2</sup> ) 0	08			15 17	Fen	Number estration Average	of Stories 1 e U-factor 0.3				$\wedge$		
18		al Cond. Flo	oor Area (ft <sup>2</sup> ) <sup>100</sup>	08			19			ntage (%) 13.8	9%					
20		ADU Bed	droom Count n/a		al	<b>CE</b>	21		DU Conditioned F	iloor Area n/a						
OMPLIANCE R	-	Complies wit	ith Computer Per	formance						0				$\wedge$		
02	_		orates features th corporate Special		d testing and/	or verification	n by a certifie	d HERS rate	under the super	vision of a CEC-	approved HE	RS provideı				
	Building		or porate Special	Teatures												
	Enorgy Lisa	e (kTDV/ft <sup>2</sup> -y	)	5	tandard Desig		E SUMMARY Prop	osed Design		Compliance M	argin	Percent l	mprovement	Δ.		
		e Heating	· · /		20.81			19.95		0.86			4.1			
		e Cooling entilation			47.3 0			47.54 0		-0.24 0			-0.5			
		r Heating zation Credit	r.		20.19 n/a			20.01 0		0.18 0			0.9 n/a			
		e Energy Tot			88.3			87.5		0.8			0.9			
alculation De	: 913 ARRE escription: CIAL FEATUR	CIFE COUR <sup>-</sup> TITLE 24 CO R <b>ES</b>					Input File N	ame: 913 /	2021-08-25T1 ARRECIFE COUR				CF1R-PRF-01E (Page 2 of 8)		D N N N N N N	0 6, CA 90047
-		that must be ES REQUIRED	e installed as conc	dition for meet	ing the model	ed energy per	formance for	this comput	er analysis.							$\Xi \otimes r \square$
ERS FEATURE S		-,											]			/ vp ĭ 0
			ures that must be below. Registered						ne modeled energ v	y performance	for this comp	uter analysi	s. Additional			) z iii -
uilding-level V None																
ooling System None	-															
eating System None VAC Distributi	-		· A													
Duct Sea omestic Hot W	ling required Vater System	d if a duct sy	stem component	t, plenum, or a	ir handling un	it is altered										
None UILDING - FEA				-6	al	<b>F</b>	RT	5	Inc							
	)1		02		03	S P	04	V	05 8	06	5		07			
Projec	t Name	Condi	itioned Floor Are	a (ft <sup>2</sup> ) Num	nber of Dwelli Units	ng Numbe	er of Bedroom	s Num	ber of Zones	Number of V Cooling S			er of Water ng Systems			
	CIFE COURT		1008		1		2		1	0			1			
ONE INFORM															۲ ۲	
01 Zone Na		Zor	02 ne Type	03 HVAC Syste		0 Zone Floo		Avg. Co	05 eiling Height	06 Water Heating	s System 1		07 Iting System 2		$\overline{\mathbf{D}}$	
EXISTING	i SFD	Con	nditioned	Ex Sys	tem 1	10	08		8	DHW Sys	stem		N/A	UDAL	COURT	
ERTIFICATE C roject Name: alculation De	221-F ergy Efficien DF COMPLI : 913 ARRE escription:	ncy Standard: <b>ANCE</b> CIFE COUR <sup>-</sup>	-000-000-0000000-0 ls - 2019 Resident T ALTERATION OMPLIANCE		2	Report \ Schema	/ersion: 2019. Version: rev 2 Calculation	2021-08-25 1 1.100 0190401 Date/Time	7:35:39 2: 2021-08-25T1 ARRECIFE COUR	6:42:42-07:00	Generated: 2		CalCERTS inc. 16:44:26 CF1R-PRF-01E (Page 3 of 8)	ALTERATION, ADU, AND	909, 911, 913 ARRECIFE SAN DIEGO, CA 92154	NO RESIDENCE
PAQUE SURFA 01	ACES 02	2	03	04	05	06		07	08	09	1	0	11		ີ ເບິ	Ш
Name	Zor	ne	Construction	Azimuth	Orientatio	n Gross Are		dow and Area (ft2)	Tilt (deg)	Status		Existing ition	Existing Construction	PROJECT:SFD	ທ	MORENO
AR EXTERIOF WALL 1	R EXISTIN	IG SFD	(E) R-0 STUCCO WALL	57	Back	192.6		40	90	Existing	N			ູ່	ЯĊ	Σ
FRONT (TERIOR WAL	L EXISTIN	IG SFD	(E) R-0 STUCCO WALL	237	Front	174.6	54	60	90	Existing	N	o		5	ADDRE	ΰŻ
1 GHT EXTERIO			(E) R-0 STUCCO	147	Right	384.4	25	60.02	90	Existing	<u> </u>	0			<b>∢</b>	Х 1 2 2 2 2 2 2 2
WALL 1	EXISTIN		WALL (E) R-0 STUCCO	327	Left	384.4		0	90					RC RC	Ē	IMO
WALL 1 (E) Ceiling	EXISTIN	IG SFD	WALL							Existing		0		<u></u>	Ŋ	0
oelow attic) 1			(E) CEILING	n/a	n/a	573		n/a	n/a	Existing	N	-		DATE		
01	ACES - CATHI 02	EDRAL CEILII	NGS 04	05	06	07	08	09	10	11	12	13	14		10/12/	2021
Name	Zone	Туре	Azimuth	Orientation	Area (ft <sup>2</sup> )	Skylight	Roof Rise (x in 12)	Roof	Roof	Cool Roof	Status	Verified Existing	Existing Constructio			
	Zone		-	-	,	Area (ft <sup>2</sup> )	in 12)	Reflectant	e Emittance			Condition	n	SCALE	=	
FRONT		(E) R-0	1 1		268.75	0	4	0.1	0.85	No	Existing	No				
FRONT VAULTED Ceiling 1	EXISTING SFD	(E) R-0 VAULTED ROOF	0	Front	208.75				I				I			
VAULTED Ceiling 1 REAR VAULTED	EXISTING	VAULTED ROOF (E) R-0 VAULTED		Front Back	166.25	0	4	0.1	0.85	No	Existing	No				
VAULTED Ceiling 1 REAR VAULTED Ceiling 1	EXISTING SFD EXISTING	VAULTED ROOF (E) R-0				0	4	0.1	0.85	No	Existing	No		SHEE-	<u></u>	
VAULTED Ceiling 1 REAR VAULTED Ceiling 1	EXISTING SFD EXISTING SFD	VAULTED ROOF (E) R-0 VAULTED			166.25	0 05	4	0.1	0.85	No 08	Existing 09		10	SHEE	<u> </u>	
VAULTED Ceiling 1 REAR VAULTED Ceiling 1 TTIC	EXISTING SFD EXISTING SFD	VAULTED ROOF (E) R-0 VAULTED ROOF	180	Back	166.25							Ve	10 erified Existing Condition		<u>Г</u>	
VAULTED Ceiling 1 REAR VAULTED Ceiling 1 TTIC 01	EXISTING SFD EXISTING SFD Cons (E) /	VAULTED ROOF (E) R-O VAULTED ROOF 02	03	Back 04	166.25	05	06		07	08	09	s Ve	erified Existing	SHEE	<b>T</b>	

REQUIRED SPECIAL FEATURES
The following are features that n

														REVISI	ON/	DATE
CERTIFICATE			RT ALTERATION				ulation Data /Tir	<b>ne:</b> 2021-08-25T	16.42.42 07.00			CF1R-PRF-01E (Page 1 of 8)				
Calculation D								3 ARRECIFE COU			bd19	(Fage I OI O)		$\wedge$		
GENERAL INFO	RMATION		Project Name 913	ARRECIFE COU	JRT ALTERATIO	N							Z			
02 03		Pro	Run Title TITL Dject Location 913				-									
04 06			City SAN Zip code 921	I DIEGO, CA 57		05		Softwa	rds Version 2019 are Version CBE		1.1 (1107)	)		$\wedge$		
08 10			Climate Zone 7 Building Type Sing			09		t Orientation (deg Number of Dwo	elling Units 1				Z			
12 14	Ne		Project Scope Add	litionAlteratior	1	13			Bedrooms 2 r of Stories 1					$\wedge$		
16 18			oor Area (ft <sup>2</sup> ) <sup>100</sup> oor Area (ft <sup>2</sup> ) <sup>100</sup>			17		enestration Avera Glazing Perc	ge U-factor 0.3 :entage (%) 13.8	9%			Z			
20		ADU Be	droom Count n/a		al	21	TS	ADU Conditioned	Floor Area n/a							
COMPLIANCE F	Building		vith Computer Perf orates features tha	<u> </u>	<u>E R</u>			DER	multion of a CEC	opproved UE	DC manual			$\wedge$		
03			corporate Special I										Z	<u> </u>		
						ENERGY USE SUN										
	•	Heating	-yr)	Sta	andard Design 20.81		Proposed Desi	gn	Compliance M	argin	Percent	t Improvement 4.1		$\bigwedge$		
	IAQ Ve	Cooling entilation			47.3 0 20.19		47.54 0 20.01		-0.24 0			-0.5	2	\ 		
		· Heating ation Cred e Energy To			n/a <b>88.3</b>		0 87.5		0.18 0 <b>0.8</b>			0.9 n/a <b>0.9</b>				
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Project Name	: 913 ARRE	CIFE COU	RT ALTERATION					<b>me:</b> 2021-08-25T 3 ARRECIFE COUI			bd19	(Page 2 of 8)			ப	90047 5914 <b>6</b>
REQUIRED SPE	-										buij				2	CA 0 IGNS
-	are features t CIAL FEATURE		e installed as cond D	ition for meeti	ng the modele	d energy perform	ance for this comp	outer analysis.					•			
IERS FEATURE		of the feat	ures that must be t	field-verified b	v a certified HF	-RS Bater as a cor	dition for meeting	the modeled ener	rgy performance	for this comp	uter analy	vsis. Additional	-			<ul><li>10</li></ul>
detail is provid Building-level \	ed in the bui /erifications:	Idng tables	below. Registered	CF2Rs and CF3	SRs are require	d to be complete	in the HERS Regi	stry	by performance							· .0 6 4
<ul> <li> None</li> <li>Cooling System</li> <li> None</li> </ul>	Verification												-		a	ГЈШШ
Heating System None HVAC Distribut	 ion System V	erification														
Duct Sea Domestic Hot \     None	Nater System		system component, ons:	plenum, or ai	r handling unit	is altered	TC									
BUILDING - FEA		RMATION	02	E	al		15,	Inc								
	01 ct Name	Con	ditioned Floor Area	a (ft <sup>2</sup> ) Num	03 ber of Dwelling Units	g 04 <sup>g</sup> Number of		05 umber of Zones	Number of Cooling	Ventilation		07 nber of Water ating Systems				
	CIFE COURT RATION		1008		1	2		1	C			1				
ZONE INFORM 01			02	03		04		05	06			07		a La	<u> </u>	
Zone N	ame		one Type	HVAC Syste		Zone Floor Area	a (ft <sup>2</sup> ) Avg.	Ceiling Height	Water Heating	g System 1	Water H	eating System 2		ADU COURT	- ) )	
EXISTING	G SFD	Co	nditioned	Ex Syste	em 1	1008		8	DHW Sy	stem		N/A				
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			COMPLIANCE					3 ARRECIFE COU			bd19	(1 age 5 01 0)		LTE 1 404	SAN	
DPAQUE SURF	ACES 02	2	03	04	05	06	07	08	09	1	0	11			)	MORENO
Name	Zor	ie	Construction	Azimuth	Orientation	Gross Area (ft	) Window and Door Area (ft2		Status	Verified Cond	Existing lition	Existing Construction			)	0 T
REAR EXTERIO WALL 1 FRONT	R EXISTIN	G SFD	(E) R-0 STUCCO WALL	57	Back	192.664	40	90	Existing	N	o			PROJECT:SFD SITE ADDRESS	, ,	
EXTERIOR WAI 1		G SFD	(E) R-0 STUCCO WALL	237	Front	174.64	60	90	Existing	N	0			J≣C ⊅ D		NER
NGHT EXTERIC WALL 1	EXISTIN		(E) R-0 STUCCO WALL (E) R-0 STUCCO	147	Right	384.425	60.02	90	Existing		0			Ω Π μ	1	NMO
WALL 1 (E) Ceiling	EXISTIN	-	(E) CEILING	327 n/a	Left n/a	573	0	90 n/a	Existing		o 0				)	0
(below attic) (								iya	LUBUIN		-		D	ATE	<u>.</u>	~
01	02	03	04	05	06	07	08 09	DER	11	12	13 Verified	14 d Existing		1	0/12/	2021
Name	Zone	Туре		Orientation	Area (ft <sup>2</sup> )		f Rise (x Roo n 12) Reflecta		Cool Roof	Status	Existing Conditio	g Constructio	c	CALE		
FRONT VAULTED Ceiling 1	EXISTING SFD	(E) R-0 VAULTE ROOF	0 0	Front	268.75	0	4 0.1	0.85	No	Existing	No		["	URLE		
REAR VAULTED Ceiling 1	EXISTING SFD	(E) R-0 VAULTE ROOF	D 180	Back	166.25	0	4 0.1	0.85	No	Existing	No					
			 	I	I	I	I	I	·	I			5	HEET		
01 Name		02 truction	03 Type	04 Roof Rise (x	in 12) Roof F	05 Reflectance Ro	06 of Emittance R	07 adiant Barrier	08 Cool Roof	09 Statu	s	10 Verified Existing		<b>-</b>		
(E) Attic	(E) A	Asphalt gle Roof	Ventilated	4		0.1	0.85	No	No	Existin		Condition No		-]		
	Sning	ייים הטטד	I	1						rovider:						

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GENERAL INFO	RMATION		Project Name 913	ARRECIFE COU	JRT ALTERATIO	N							Z			
02 03		Pro	Run Title TITL Dject Location 913				-									
04 06			City SAN Zip code 921	I DIEGO, CA 57		05		Softwa	rds Version 2019 are Version CBE		1.1 (1107)	)		$\wedge$		
08 10			Climate Zone 7 Building Type Sing			09		t Orientation (deg Number of Dwo	elling Units 1				Z			
12 14	Ne		Project Scope Add	litionAlteratior	1	13			Bedrooms 2 r of Stories 1					$\wedge$		
16 18			oor Area (ft <sup>2</sup> ) <sup>100</sup> oor Area (ft <sup>2</sup> ) <sup>100</sup>			17		enestration Avera Glazing Perc	ge U-factor 0.3 :entage (%) 13.8	9%			Z			
20		ADU Be	droom Count n/a		al	21	TS	ADU Conditioned	Floor Area n/a							
COMPLIANCE F	Building		vith Computer Perf orates features tha	<u> </u>	<u>E R</u>			DER	multion of a CEC	opproved UE	DC manual			$\wedge$		
03			corporate Special I										Z	<u> </u>		
						ENERGY USE SUN										
	•	Heating	-yr)	Sta	andard Design 20.81		Proposed Desi	gn	Compliance M	argin	Percent	t Improvement 4.1		$\bigwedge$		
	IAQ Ve	Cooling entilation			47.3 0 20.19		47.54 0 20.01		-0.24 0			-0.5	2	\ 		
		· Heating ation Cred e Energy To			n/a <b>88.3</b>		0 87.5		0.18 0 <b>0.8</b>			0.9 n/a <b>0.9</b>				
Registration N	221-F		A-000-000-0000000-00 ds - 2019 Residenti			Registration I	Date/Time: 2021-08-25 n: 2019.1.100	5 17:35:39		rovider: Generated: 2	021 09 21	CalCERTS inc.				
CA building El	lergy Enicien	cy Stanuar	us - 2019 Kesidenti				on: rev 20190401		Report	Generated. 2	.021-08-2:	5 10.44.20				COM
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Project Name	: 913 ARRE	CIFE COU	RT ALTERATION					<b>me:</b> 2021-08-25T 3 ARRECIFE COUI			bd19	(Page 2 of 8)			ப	90047 5914 <b>6</b>
REQUIRED SPE	-										buij				2	CA 0 IGNS
-	are features t CIAL FEATURE		e installed as cond D	ition for meeti	ng the modele	d energy perform	ance for this comp	outer analysis.					•			
IERS FEATURE		of the feat	ures that must be t	field-verified b	v a certified HF	-RS Bater as a cor	dition for meeting	the modeled ener	rgy performance	for this comp	uter analy	vsis. Additional	-			<ul><li>10</li></ul>
detail is provid Building-level \	ed in the bui /erifications:	Idng tables	below. Registered	CF2Rs and CF3	SRs are require	d to be complete	in the HERS Regi	stry	by performance							· .0 6 4
<ul> <li> None</li> <li>Cooling System</li> <li> None</li> </ul>	Verification												-		a	ГЈШШ
Heating System None HVAC Distribut	 ion System V	erification														
Duct Sea Domestic Hot \     None	Nater System		system component, ons:	plenum, or ai	r handling unit	is altered	TC									
BUILDING - FEA		RMATION	02	E	al		15,	Inc								
	01 ct Name	Con	ditioned Floor Area	a (ft <sup>2</sup> ) Num	03 ber of Dwelling Units	g 04 <sup>g</sup> Number of		05 umber of Zones	Number of Cooling	Ventilation		07 nber of Water ating Systems				
	CIFE COURT RATION		1008		1	2		1	C			1				
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01	02	03	04	05	06	07	08 09	DER	11	12	13 Verified	14 d Existing		1	0/12/	2021
Name	Zone	Туре		Orientation	Area (ft <sup>2</sup> )		f Rise (x Roo n 12) Reflecta		Cool Roof	Status	Existing Conditio	g Constructio	c	CALE		
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01       02       03       04       05       06       07       08       09       10       11         Name       Zone       Construction       Arimuth       Orientation       Gross Area (tr2)       Tilt (deg)       Status       Vertical Existing Condition       Existing Construction       Interview       Status       Vertical Existing Construction       Description	None ting System Verifications None C Distribution System Ve Duct Sealing required nestic Hot Water System None LDING - FEATURES INFOI 01 Project Name 913 ARRECIFE COURT ALTERATION 01 Zone Name EXISTING SFD  sistration Number: 221-PC Building Energy Efficience EXISTING SFD  TIFICATE OF COMPLIA fect Name: 913 ARREC	s: erifications: I if a duct system component Verifications: RMATION 02 Conditioned Floor Are 1008 02 Zone Type Conditioned	a (ft <sup>2</sup> ) Number of Dwelli Units 1 1 HVAC System Name Ex System 1	04         ing       Number of Bec         2       2         04       2         Cone Floor Area (f       1008         1008       1008         Registration Dat       Report Version: Schema Version         Schema Version       Schema Version	drooms         Number of           1         1           05         6           ft²)         Avg. Ceiling I           8         8           2019.1.100         17:35:39           2019.1.100         17:135:39           2019.1.100         17:135:39           2019.1.100         17:135:39           2019.1.100         17:135:39	f Zones Number of V Cooling Sy 0 0 Height Water Heating DHW Syst HERS Pro Report C	entilation Nu stems H System 1 Water em Sovider:	1 07 Heating System 2 N/A CalCERTS inc. 25 16:44:26	ADU, AND	911, 913 ARRECIFE COURT DIEGO, CA 92154	RESIDENCE
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E) Celling (low attr)       EXISTING SFD       (E) CELING       n/a       n/a       n/a       Existing       No         COUSTRACES - CATHEDRAL CELLINGS       Count	None Cing System Verifications None C Distribution System Ve Duct Sealing required iestic Hot Water System Ve Dut Sealing required iestic Hot Water System Ve Dung - FEATURES INFOL 01 Project Name 913 ARRECIFE COURT ALTERATION 01 Zone Name EXISTING SFD EXISTING SFD EXISTING SFD FIFICATE OF COMPLIA ect Name: 913 ARRECI Building Energy Efficience Ulation Description: 1 QUE SURFACES 01 02 Name R EXTERIOR WALL 1 FRONT ERIOR WALL 1 T EXTERIOR EXISTING EXISTING COL COL COL COL COL COL COL COL	s: erifications: If a duct system component Verifications: RMATION 02 Conditioned Floor Are 1008 02 Conditioned Floor Are 1008 02 Conditioned Construction 02 Conditioned Construction Conditioned Construction CIFE COURT ALTERATION TITLE 24 COMPLIANCE CONSTRUCTION	03   a (ft²)   Number of Dwelli   1   1   03   HVAC System Name   Ex System 1   Ex System 1   0000   tial Compliance	04         ing       Number of Bec         2       2         04       2         04       2         04       2         04       2         04       2         04       2         04       2         04       2         04       2         1008       1008         Calcula Input I         Calcula Input I         Calcula Input I         O6         00       Gross Area (ft <sup>2</sup> )         192.664       174.64	Image: drooms         Number of an antipart of a state o	f Zones     Number of V. Cooling Sy       0       0       06       Height     Water Heating       DHW Syst       0       HERS Pro       Report G       1-08-25T16:42:42-07:00       CIFE COURT ALTERATION (       08     09       ilt (deg)     Status       90     Existing       90     Existing	entilation / Nu /stems / H System 1 / Water em / / / / / / / / / / / / / / / / / / /	umber of Water   eating Systems   1   07   Heating System 2   N/A   CalCERTS inc. 25 16:44:26 CF1R-PRF-01E (Page 3 of 8) 11 Existing	JECT:SFD ALTERATION, ADU, AND	ADDRESS: 909, 911, 913 ARRECIFE COURT SAN DIEGO, CA 92154	NER: MORENO RESIDENCE
ODE SURFACES - CATHEDRAL CEILINGS         OI       OZ       O3       O4       O5       O6       O7       O8       O9       10       11       12       13       14         Iame       Zone       Type       Azimuth       Orientation       Area (ft <sup>2</sup> )       Skylight Area (ft <sup>2</sup> )       Roof fise (x in 12)       Roof fise (x meflectance       Roof       Status       Verified Condition       Existing Construction       On the construction       Status       Verified Existing Condition       Construction       Scale       O/12/2021         SONT       EXISTING       (E) R-0 NOOF       0       Front       268.75       0       4       0.1       0.85       No       Existing       No       Indiana       Scale	None C Distribution System Verifications None C Distribution System Verifications C Distribution System Verifications Divestic Hot Water System None DING - FEATURES INFOLING 01 Project Name 913 ARRECIFE COURT ALTERATION 01 Cone Name EXISTING SFD CONPULA EXISTING SFD FIFICATE OF COMPLIA ect Name: 913 ARRECI Building Energy Efficience CONPULA CONT CO	s: erifications: If a duct system component Verifications: RMATION 02 Conditioned Floor Are 1008 02 Conditioned Floor Are 1008 0010178704A-000-000-0000000-0 Conditioned 010178704A-000-000-00000000-0 Conditioned 010178704A-000-000-00000000-0 Conditioned 010178704A-000-000-00000000-0 Conditioned 010178704A-000-000-00000000-0 Conditioned 010178704A-000-000-00000000-0 Conditioned 02 Conditioned 03 Construction 03 Constructi	03   a (ft²)   Number of Dwelli   1   1   1   Back   HVAC System Name   Ex System 1   D000   tial Compliance	04         ing       Number of Bec         2       2         04       2         Calcula       1008         Registration Dat       Report Version:         Schema Version       Schema Version         Schema Version       Calcula         Input I       06         on       Gross Area (ft²)         192.664       174.64         384.425       384.425	drooms       Number of         1       1         05       1         Rt²)       Avg. Ceiling I         2019.1.100       8         : rev 20190401       1         ation Date/Time: 202       2019.1.100         File Name: 913 ARREC       7         07       07         Window and Door Area (ft2)       7         40       60         60.02       60.02	f Zones       Number of V. Cooling Sy         0       0         06       0         Height       Water Heating         DHW Syst       0         HERS Pro       Report O         Report O       0         1-08-25T16:42:42-07:00       CIFE COURT ALTERATION (         08       09         iit (deg)       Status         90       Existing         90       Existing         90       Existing         90       Existing	entilation / Nu /stems / H System 1 / Water em / / / / / / / / / / / / / / / / / / /	umber of Water   eating Systems   1   07   Heating System 2   N/A   CalCERTS inc. 25 16:44:26 CF1R-PRF-01E (Page 3 of 8) 11 Existing	JECT:SFD ALTERATION, ADU, AND	'E ADDRESS: 909, 911, 913 ARRECIFE COURT SAN DIEGO, CA 92154	NER: MORENO RESIDENCE
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Cooling Sy         0       0         0       0         06       06         Height       Water Heating         0HW Syst       0HW Syst         0HW Syst       0         0S       09         11       08         90       Existing         90       Existing         90       Existing         10       11         Roof       Cool Roof	entilation // Ki // Hi /	Imber of Water   eating Systems   1   07   Heating System 2   N/A     CalCERTS inc.   25   16:44:26     CF1R-PRF-01E   (Page 3 of 8)     Interval   Existing   Construction     Interval     Interval </td <td>PROJECT:SFD ALTERATION, ADU, AND</td> <td>Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million&lt;</td> <td>OWNER: MORENO RESIDENCE</td>	PROJECT:SFD ALTERATION, ADU, AND	Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million<	OWNER: MORENO RESIDENCE
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N/A     CalCERTS inc.   25   16:44:26     CF1R-PRF-01E   (Page 3 of 8)     11   5   Existing   Construction     11   5   11   5   11   5   11   5   11   5   11   6   11   7   11   8   11   9   11   11   11   11   12   13   14   14   14   14   15   16   17   18   19   110   111   111   12   13   14   14   14   14   14   14   14   15   16   17   18   19   19   10   11   11   12   13   14   14   14   15   16   17   18   19   10   10   11   12 <t< td=""><td>PROJECT:SFD ALTERATION, ADU, AND</td><td>Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million         Image: 100 million       Image: 100 million       Image: 100 million       Image: 100 million 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Registration Number: 221-P010178704A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Number:	
221-P010178704A-000-000-00000000000	
CA Building Energy Efficiency Standards - 2019 Residential Compliance	

Registration Date/Time: 2021-08-25 17:35:39 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider: CalCERTS inc. Report Generated: 2021-08-25 16:44:26

CERTIFICATE OF COMPLIANCE Project Name: 913 ARRECIFE COURT ALTERATION Calculation Description: TITLE 24 COMPLIANCE

E+A+A1).ribd19

01		02	(	)3	04		05			06		07	08	09
Name	:	Zone	Area	a (ft2)	Perimete	r (ft)	Edge Insul. R-value Depth	and		rpeted action	I	Heated	Status	Verified Existing Condition
E) Slab On Grade 1	EXIS	TING SFD	10	008	101.07	'9	None			80%		No	Existing	No
PAQUE SURFACE C	ONSTRU	UCTIONS												
01		02		03			04	05		06		07	08	3
Construction Nar	ne	Surface Type		Construe	ction Type		Framing	Total Ca R-valı	,	Interior / Ex Continuc R-value	ous	U-factor	Assembly	/ Layers
(E) R-0 STUCCO W	ALL	Exterior Walls		Wood Framed Wall		2x4 @ 16 in. O. C.		R-0	-	None / No	one	0.361	Inside Finish: G Cavity / Frame: Exterior Finish:	no insul. / 2x4
(E) R-0 VAULTED R(	DOF	Cathedral Ceilings		Wood Framed Ceiling		2x10 @ 16 in. O. C.		R-0		None / No	one	0.475	Roofing: Light Roof Roof Decl Siding/sheath Cavity / Frame: r Inside Finish: G	k: Wood ing/decking no insul. / 2x10
R-15 INTERIOR W	ALL	Interior V	Valls	Wood Fr	Wood Framed Wall		x4 @ 16 in. O. C.	R-15	5	None / None		0.086	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Other Side Finish: Gypsum Boa	
(E) Asphalt Shingle	Roof	Attic Ro	ofs		Framed iling	2x4 To	pp Chord of Roof Truss @ 24 in. O. C.	R-0		None / No	one	0.644	Roofing: Light Roof Roof Decl Siding/sheath Cavity / Frame: no ir	k: Wood ing/decking
(E) CEILING		Ceilings (b attic)			Framed	2x4 B	ottom Chord of Truss @ 24 in. O. C.	R-0		None / No	one	0.481	Cavity / Frame: no in Inside Finish: G	

Registration Number: 221-P010178704A-000-000-0000000-0000 Registration Date/Time: 2021-08-25 17:35:39 HERS Provider: CalCERTS inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.100 Report Generated: 2021-08-25 16:44:26 Schema Version: rev 20190401

CERTIFICATE Project Nam Calculation I	<b>e:</b> 91	3 ARRE	CIFE COUI									•		21-08-25T16:42:42- CIFE COURT ALTERA			CF1R-PRF-01E (Page 6 of 8)
BUILDING EN	VELOF	PE - HER	S VERIFICA	TION													
		01					(	)2				0	3			04	
Quality	/ Insula	ation In:	stallation (	QII)	a	uality l	Installation of	Spray Foam Ir	sulation		Building	g Envelo	ope Air	Leakage		CFM50	
	No	ot Requi	red				Not Re	equired				Not Re	quired			n/a	
WATER HEATI	ING SY	STEMS															
01			02		03		0	)4	0	5		06		07	08	09	10
Name		Syste	em Type	Distri	ibution	Туре	Water Heat	ter Name (#)	Solar Fra	ction (%)		ompact tributio		HERS Verification	Status	Verified Existing Condition	Existing Water Heating System
DHW Syste	m		estic Hot r (DHW)	Di	itandar stributi System	on	Tankl	ess (1)	n,	/a		None	_	n/a	New	NA	
WATER HEAT	ERS					-		alc	-	R	19	-	h	$\mathbf{n}$			
01	(	02	03		04	05	06	07	08	-	09	1	0	11	12	13	14
Name	Eler	ating ment /pe	Tank Ty	ype	# Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input Rating or Pilot	Tank Insulatio R-value (Int/Ext	on Lo e Red	indby ss or covery Eff.	Ratir	Hr. ng or Rate	NEEA Heat Pump Brand or Model / Other	Tank Location or Ambient Condition	Status	Verified Existing Condition
Tankless		tural ias	Consur Instantar		1	0	0.83-UEF	200000- Btu/Hr	0		n/a	n,	/a	n/a	n/a	New	
WATER HEATI			RIFICATION	4													
01	110 - 1		02	•			03	04			05			06	07		08
Nam	e		Pipe Insu	lation			lel Piping	Compact Dis		Compa		oution	Recir	culation Control	Central DHW Distribution		er Drain Water at Recovery
DHW Syste	m - 1/	1	Not Req	uired		Not I	Required	Not Req	uired		None		١	Not Required	Not Required	No	t Required

Registration Number: 221-P010178704A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2021-08-25 17:35:39 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider: CalCERTS inc. Report Generated: 2021-08-25 16:44:26

06	07	0
e: 913 ARRECIFE	COURT ALTERATION	N (E+A+A1
te/Time: 2021-08	-25T16:42:42-07:0	0
<b>ATIMAN</b> 2021 00	) 2ET16.42.42 07.0	^

## CF1R-PRF-01E

(Page 5 of 8)

Calculation Date Input File Name

Registration Date/Time: 2021-08-25 17:35:39 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider: CalCERTS inc. Report Generated: 2021-08-25 16:44:26

OF

SHEETS

### CERTIFICATE OF COMPLIANCE

Project Name: 913 ARRECIFE COURT ADU ALTERATION Calculation Date/Time: 2021-10-12T10:13:21-07:00 (Page 7 of 8) Input File Name: 913 ARRECIFE COURT ADU ALTERATION (E+A+A1).ribd19 Calculation Description: TITLE 24 COMPLIANCE

HVAC HEAT PUMPS -	HERS VERIFICATION							
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER	Verified SEER	Verified Refrigerant Charge	Verified HSPF	Verified Heating Cap 47	Verified Heatin Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	No	No	No	No
HVAC - FAN SYSTEMS								
	01		02	1		03		04
	Name		Тур	e	Fan Pow	ver (Watts/CFM)		Name
	HVAC Fan		HVAC	Fan		0.45	HVAC	Fan-hers-fan
HVAC FAN SYSTEMS -	HERS VERIFICATION							
	01			02			03	
	Name			Verified Fan Watt Drav	N	Required	Fan Efficiency (Wat	ts/CFM)
	HVAC Fan-hers-fan		Car	Not Required	$\mathbf{y}_{1}$	IC.	0	
			HERS	SPRO		FR		
IAQ (INDOOR AIR QU	ALITY) FANS							
01		02	03		04	05		06
Dwelling Un	it	IAQ CFM	IAQ Watts/Cl	FM I	AQ Fan Type	IAQ Recovery Effective	ness (%) HE	RS Verification
SFam ADU IAQVe	ntRpt	40	0.25		Default	0		Yes

### Registration Number: 221-P010178699B-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2021-10-12 10:57:58 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider: CalCERTS inc. Report Generated: 2021-10-12 10:14:21

Project Name: 913 ARRECIFE COURT ADU ALTERATION		
	Calculation Date/Time: 2021-10-12T10:13:21-07:00	(Page 8 of 8
Calculation Description: TITLE 24 COMPLIANCE	Input File Name: 913 ARRECIFE COURT ADU ALTERATION (E+A+A	1).ribd19
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
1. I certify that this Certificate of Compliance documentation is accurate and complete.		
Documentation Author Name:	Documentation Author Signature:	
LAWRENCE GORDON	X	
Company:	Signature Date:	
LRG DESIGNS,LLC	2021-10-12 10:57:58	
Address:	CEA/ HERS Certification Identification (If applicable):	
1207 W. 112TH STREET		
City/State/Zip:	Phone:	
LOS ANGELES, CA 90044	323-955-9827	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
<ol> <li>I certify the following under penalty of perjury, under the laws of the State of California:         <ol> <li>I am eligible under Division 3 of the Business and Professions Code to accept responsibility fo</li> <li>I certify that the energy features and performance specifications identified on this Certificate</li> <li>The building design features or system design features identified on this Certificate of Complical calculations, plans and specifications submitted to the enforcement agency for approval with</li> </ol> </li> </ol>	of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the Califorr ance are consistent with the information provided on other applicable compliance docu	
Responsible Designer Name: LAWRENCE GORDON	Responsible Designer Signature:	
Company: LRG DESIGNS,LLC	Date Signed: 2021-10-12 10:57:58	
Address: 1207 W. 112TH STREET	License: NA	
City/State/Zip: LOS ANGELES, CA 90044	Phone: 323-955-9827	

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.



CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2021-10-12 10:57:58 Report Version: 2019.1.100 Schema Version: rev 20190401

CalCERTS inc. Report Generated: 2021-10-12 10:14:21

HERS Provider:

Easy to Verify

at CalCERTS.com



CF1R-PRF-01E

CERTIFICATE OF CO	OMPLIANCE														С	F1R-PRF-01
Project Name: 913	ARRECIFE	COURT ADU	ALTERATION				Calcu	lation	Date/Tim	<b>1e:</b> 2021-10	D-12T10	13:21-07:0	00			(Page 4 of 8
Calculation Descri	otion: TITLE	24 COMPLI	NCE				Input	File Na	ame: 913	ARRECIFE	COURT	ADU ALTER	ATION (	E+A+A1).	ribd19	
FENESTRATION / GL	AZING															
01	02	03	04	05	06	07	08	09	10	11	12	13	1	.4	15	16
Name	Туре	Surface	Orientation	Azimuth	Widt (ft)		Mult.	Area (ft <sup>2</sup> )	U-facto	U-factor Source	SHGC	SHGC Source		erior ding	Status	Verified Existing Condition
(E) Window 1	Window	LEFT EXTERIO WALL 1	t Left	57	6	3.5	1	21	0.58	Tables 110.6-A and 110.6-B	0.53	be keppon the work at all time	is and specifica site of the struct es during which these plans is in	tions shall cture of 1 work	city of	SAN DO
OPAQUE DOORS							1					upon request. modify, or alte specifications	ade available to It is unlawful to r the approved without authori fficial. The star	plans and		
01			02		03				04			05 e plans an of any City, Co	unter Stata ar I	the violation adoral-laws,	<b>MIT</b>	1552
Name		Side o	Building		Area (f	ft <sup>2</sup> )		U	factor			Status	s.	Verifie	d Existin	g Conditic n
(E) Door 3		LEFT EXTE	RIOR WALL 1		20				0.2			Existing			No	
SLAB FLOORS		~		-			<u> </u>	_	~	1.1			5/13/20	22, 6:06	27 AM	
01	02		03	04	211	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	)5	T.		06	C	07	PR	<b>0395</b>	03	09
Name	Zone		rea (ft2)	Perimeter	(ft)	Edge Insul. De	R-value pth	and		rpeted action	R	eated	Ethe	el Ada	m <b>s</b> /eri	fied Existing Condition
(E) Slab On Grade 1	ADU CONVERS	ION	568	48.087	,	No	one			80%		No	E>	kisting		No
OPAQUE SURFACE C	ONSTRUCTIO	DNS														
01		02	03			04			05	06		07			08	
Construction Name Surface Type Construction Type						Framing Iotal Cavity Cor			Interior / E Continu R-valu	ous	U-factor		Assem	bly Laye	rs	
(E) R-0 STUCCO WALL Exterior Walls Wood Framed Wall 2x4 @ 16 in. O. C.								R-0	None / N	lone	0.361	Cav	side Finish rity / Fram rerior Finis	e: no ins	ul. / 2x4	

Registration Number: 221-P010178699B-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2019 Residential Compliance

Surface Type

Interior Walls

Attic Roofs

Ceilings (below

attic)

03

Distribution Type

Standard

Distribution

System

03

Construction Type

Wood Framed Wall

Wood Framed

Ceiling

Wood Framed

Ceiling

 ILDING ENVELOPE - HERS VERIFICATION

 01
 02
 03

 Quality Insulation Installation (QII)
 Quality Installation of Spray Foam Insulation
 Building Envelope Air Leakage

Not Required

04

Water Heater Name (#)

Tankless (1)

04

Framing

2x4 @ 16 in. O. C.

2x4 Top Chord of Roof Truss

@ 24 in. O. C.

2x4 Bottom Chord of Truss

@ 24 in. O. C.

05

Solar Fraction (%)

n/a

Registration Date/Time: 2021-10-12 10:57:58 Report Version: 2019.1.100 Schema Version: rev 20190401

05

Total Cavity

R-value

R-15

R-0

R-0

Not Required

06

Compact

Distribution

None

Calculation Date/Time: 2021-10-12T10:13:21-07:00

06

R-value

None / None

None / None

None / None

Interior / Exterior Continuous U-factor

Input File Name: 913 ARRECIFE COURT ADU ALTERATION (E+A+A1).ribd19

07

0.086

0.644

0.481

07

HERS Verification

n/a

HERS Provider:

Report Generated: 2021-10-12 10:14:21

08

Assembly Layers

Inside Finish: Gypsum Board

Cavity / Frame: R-15 / 2x4 Other Side Finish: Gypsum Board

Roofing: Light Roof (Asphalt Shingle)

Roof Deck: Wood

Siding/sheathing/decking

Cavity / Frame: no insul. / 2x4 Top Chrd

Cavity / Frame: no insul. / 2x4 Btm Chrd

04

CFM50

n/a

09

Verified

Existing

Condition

NA

Report Generated: 2021-10-12 10:14:21

10

Existing Water Heating System

CalCERTS inc.

CF1R-PRF-01E

(Page 6 of 8)

Verified

08

Status

New

HERS Provider:

Inside Finish: Gypsum Board

CalCERTS inc.

CF1R-PRF-01E

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Registration Number: 221-P010178699B-000-000-000000-0000

Registration Number:	Registration Date/Time:
221-P010178699B-000-000-000000-0000	2021-10-12 10:57:58
CA Building Energy Efficiency Standards - 2019 Residential Compliance	Report Version: 2019.1.100 Schema Version: rev 20190401

Calculation Date/Time: 2021-10-12T10:13:21-07:00

Calculation Description: TITLE 24 COMPLIANCE Input File Name: 913 ARRECIFE COURT ADU ALTERATION (E+A+A1).ribd19 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 13 14 12 #<br/>UnitsTank<br/>Vol.<br/>(gal)Energy<br/>Factor or<br/>EfficiencyInput Rating<br/>or PilotTank<br/>Insulation<br/>R-value<br/>(Int/Ext)Standby<br/>Loss or<br/>Recovery<br/>Eff. 1st Hr. NEEA Heat Pump Tank Location Rating or Brand or Model / or Ambient Existing Status Flow Rate Condition Other Condition <= 200 0 0.83-UEF 0 n/a n/a n/a n/a New kBtu/hr 01 02 03 04 05 06 07 08

01			02	03			04			05			00			0,			00
Name		Pip	e Insulation	Parallel P	iping	Compa	ict Distribut	ion Co	-	Distribut Type	ion	Recircu	ulation (	Control		tral DHW tribution			er Drain Water at Recovery
DHW System	n - 1/1	No	ot Required	Not Requ	ired	No	t Required		N	lone		No	ot Requir	red	Not	Required		No	t Required
									ļ										
SPACE CONDIT	IONING S	YSTEMS	5				(  -	- K				Ir	10	¥					
01	0:	2	03	04	05		06	_ 1	07	1	08	3		9	10		1	1	12
Name	System	n Type	Heating U Name	nit Cooling Unit Name	Fan Na	ame	Distributi Name	on I	Require nermos Type	stat E	Heati Equipn Cou	nent	Equip	oling oment unt	Statu	ıs	Veri Exist Cond	ting	Existing HVAC System
NEW HVAC System	Heat p heat cool	ing	Heat Pum System :	'   '	HVAC	Fan	None		Setbac	:k	1			1	Nev	v	N	0	n/a
HVAC - HEAT P	UMPS																		
01			02	03	04		05	06		07		08	3	0	9	10			11
Name		Svete	em Type	Number of Units			Heating				Cooli	ing		Zon	ally	Compre	ssor	HER	Verification
Name		Jyste		Number of Onits	HSPF/CO	P	Cap 47	Cap 1	17	SEER		EEF	R	Contr	olled	Туре	•	TER.	vermeation
Heat Pump Sy	vstem 1		ictless Split HP	1	8.2		24000	2400	00	14		11.	7	Not Z	onal	Singl Spee			Pump System ers-htpump

Registration Number: 221-P010178699B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Registration Date/Time: 2021-10-12 10:57:58 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider: CalCERTS inc. Report Generated: 2021-10-12 10:14:21

Construction Name	Surface Type	Construc
01	02	0
OPAQUE SURFACE CONSTR	UCTIONS	
Calculation Description:	TITLE 24 COMPLIANC	E
Project Name: 913 ARRE	CIFE COURT ADU ALT	ERATION
CERTIFICATE OF COMPLI	ANCE	

**R-15 INTERIOR WALL** 

(E) Asphalt Shingle Roof

(E) CEILING

WATER HEATING SYSTEMS

01

Name

DHW System

CERTIFICATE OF COMPLIANCE

02

Heating Element

Туре

Natural

Gas

WATER HEATING - HERS VERIFICATION

WATER HEATERS

01

Name

Tankless

BUILDING ENVELOPE - HERS VERIFICATION

Not Required

02

System Type

Domestic Hot

Project Name: 913 ARRECIFE COURT ADU ALTERATION

Tank Type

Consumer

Instantaneous

Water (DHW)

CERTIFICATE	E OF COMPLIANCE									CF1R-PRF-01	E	REV	ISION /	DATE
Project Nam	ne: 913 ARRECIFE COUF Description: TITLE 24 C		ATION				ne: 2021-10-12T1 3 ARRECIFE COUR <sup>-</sup>		ION (E+A+A1).	(Page 1 of 8		$\square$		
01 02	F	-	913 ARRECIFE COU FITLE 24 COMPLIA		TION									
02	Pro		911 ARRECIFE COU									^		
04		City S Zip code	SAN DIEGO, CA		05			ls Version 2019 re Version CBECC	C-Res 2019.1.1 (2	1107)	-			
08		Climate Zone	7		09	Fron	t Orientation (deg/	Cardinal) 327		,				
10 12		Building Type	SingleFamily AdditionAlteration		11 13		Number of Dwel Number of B	-			-			
14		oor Area (ft <sup>2</sup> )			15			of Stories 1						
16 18	Existing Cond. Flo	oor Area (ft <sup>2</sup> )			17 19	F	enestration Average Glazing Perce	• U-factor 0 ntage (%) 9.86%			-			
20		droom Count			21	ГС	ADU Conditioned F	loor Area 568						
COMPLIANCE			16	dl	.ER	13,	INC	•			]	$\wedge$		
01	Building Complies w This building incorpo	· · · ·		testing and/or	verification by a ce	rtified HERS ra	ter under the super	vision of a CEC-a	pproved HERS p	provider.	-			
03	Building does not in	corporate Spec	ial Features								]			
				E	NERGY USE SUMM	ARY								
	Energy Use (kTDV/ft <sup>2</sup> -	yr)	Sta	ndard Design		Proposed Desi	gn	Compliance Ma	rgin Pe	ercent Improvement				
	Space Heating Space Cooling			13.67 49.27		13.3 46.2		0.37 3.07		2.7 6.2				
	IAQ Ventilation Water Heating			4.2 61.88		4.2 61.36		0 0.52		0 0.8				
	Self Utilization Credi			n/a		0		0		n/a				
	Compliance Energy To	ital		129.02		125.06		3.96		3.1				
Project Name Calculation E REQUIRED SPI The following	E OF COMPLIANCE ne: 913 ARRECIFE COUF Description: TITLE 24 C PECIAL FEATURES g are features that must be ECIAL FEATURES REQUIRE	COMPLIANCE		ig the modeled	Input F	ile Name: 91	ne: 2021-10-12T1 3 ARRECIFE COUR <sup>-</sup> outer analysis.		ION (E+A+A1).	CF1R-PRF-01 (Page 2 of 8 ribd19			S NG	P.O. BOX 47478 LOS ANGELES, CA 90047 (323)955-9827 EMAIL:LRGDESIGNS914@GMAIL.COM
HERS FEATURE		0												X 474 GELE 5-982'
The following	g is a summary of the feat ided in the buildng tables							y performance fo	or this computer	analysis. Additional	-			0. BOX 5 ANG 33)955-4 1AIL:LR
Building-level	l Verifications:	below. Register		ks are required	to be completed in	the HERS Regi	stry				_			Р.О. -05 (323)
Kitchen	air quality ventilation n range hood m Verifications:													$r \neg \oplus \Pi$
None														
	ution System Verifications													
<ul> <li> None</li> <li>Domestic Hot</li> <li> None</li> </ul>	t Water System Verificatio	ins:	C	-10		ГС	lnc							
BUILDING - FE	EATURES INFORMATION			aic	EN	1.07	IIIC	0			]			
	01	02	Numb	03 er of Dwelling	04	0 1 1	05	06 Number of V	antilation	07 Number of Water	-			
		litioned Floor A	(ft <sup>2</sup> )	Units	Number of Bed	rooms Nu	Imber of Zones	Cooling Sy		Heating Systems	4			
	CIFE COURT ADU FERATION	568		1	2		1	0		1				
ZONE INFORM											]		ъ Т	
01 Zone N		02 one Type	03 HVAC Syster	n Name	04 Zone Floor Area (fr	: <sup>2</sup> ) Avg.	05 Ceiling Height	06 Water Heating	System 1 Wa	07 Iter Heating System 2	-	2	COUR	
ADU CON		nditioned	NEW HVAC		568		8	DHW Syst		N/A	-	NDAL	3	
				l			I		I		_	L UNA	ARRECIFE CA 92154	
Registration N	Number: 221-P010178699B Energy Efficiency Standard				Registration Data Report Version: Schema Version:	2021-10-12 2019.1.100	? 10:57:58	HERS Pro		CalCERTS in -10-12 10:14:21	с.	ADU,	ARRE CA 92	Щ
												ALTERATION,	1, 913 EGO,	RESIDENCE
	E OF COMPLIANCE									CF1R-PRF-01		₹	911, DE	С Ш
	ne: 913 ARRECIFE COUF Description: TITLE 24 C		ATION				<b>ne:</b> 2021-10-12T1 3 ARRECIFE COUR <sup>-</sup>		ION (E+A+A1).	(Page 3 of 8 ribd19	)	Ш	- · ·	_
OPAQUE SURI	-								,,. <b>.</b> ,.		7	1	909, SAN	<b>0</b> <b>7</b>
01	02	03	04	05	06	07	08	09	10	11	1		 ເນ	MORENO
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft <sup>2</sup> )	Window and Door Area (ft2		Status	Verified Exis Conditior		4	ЦЦ	S Ш	0 V
REAR EXTERIO WALL 1	CONVERSION	(E) R-0 STUCCO WALL	147	Back	136	35	90	Existing	No			ы С	DRES	Σ
LEFT EXTERIC WALL 1	CONVERSION	(E) R-0 STUCCO WALL	57	Left	248.696	41	90	Existing	No				ADD	ΰŻ
(E) Ceiling (below attic)		(E) CEILING	n/a	n/a	568	n/a	n/a	Existing	No					Ш
ATTIC											]	PROJECT:SFD	≞ ⊑	OWNER:
01	02	03	04			06	07	08	09 Status	10 Verified Existing	-	<u>D</u>	ы Л	0
Name	Construction (E) Asphalt	Туре	C	in 12) Roof Re		ГС	adiant Barrier	Cool Roof	Status	Condition	4	DATE		
(E) Attic	(E) Asphalt Shingle Roof	Ventilated	4	dl	0.1	0.85	No	No	Existing	No			- 10/12	12021
FENESTRATIO	· · · · · · · · · · · · · · · · · · ·	03		ERS					14	15 10	]			
01	02	03	04 05	Width		09 10 Area	U-factor	succ	14 Exterior	15 16 Verified	1	GCAL	E	
Name	Туре	Surface O	rientation Azim	uth (ft)		(ft <sup>2</sup> ) U-facto	Source	Source	Shading	Status Existing Condition	4	SCAL		
(E) Windov	w 2 Window	REAR EXTERIOR	Back 147	7 5	3.5 1	17.5 0.58	Tables 110.6-A and 0.5	Tables 110.6-A and	Bug Screen E	Existing No				
		WALL 1					and 110.6-B	and 110.6-B			4			
(E) Windov	w 3 Window	REAR EXTERIOR	Back 147	7 5	3.5 1	17.5 0.58	Tables           110.6-A           and	Tables 110.6-A and	Bug Screen E	Existing No		SHEE	T	
		WALL 1					110.6-B	110.6-B					<b>^</b>	

CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2021-10-12 10:57:58 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider: CalCERTS inc. Report Generated: 2021-10-12 10:14:21

**T-2** OF

SHEETS

### CERTIFICATE OF COMPLIANCE

Project Name: 913 ARRECIFE COURT JADU CONVERSION Calculation Description: TITLE 24 COMPLIANCE

### HVAC FAN SYSTEMS - HERS VERIFICATION

Calculation Date/Time: 2021-10-12T10:10:14-07:00 Input File Name: 913 ARRECIFE COURT JADU (AA1).ribd19 CF1R-PRF-01E (Page 7 of 8)

01		02	2	03						
Nam	e	Verified Fan	Watt Draw	Required Fan Efficiency (Watts/CFM)						
HVAC Fan-ł	ners-fan	Not Re	quired	0						
(INDOOR AIR QUALITY) FANS	02	03	04	05	06					
		03 IAQ Watts/CFM	04 IAQ Fan Type	05 IAQ Recovery Effectiveness (%)	06 HERS Verification					



Registration Number: 221-P010178696B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Registration Date/Time: 2021-10-12 11:06:32 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider: CalCERTS inc. Report Generated: 2021-10-12 10:11:50

### CERTIFICATE OF COMPLIANCE

Project Name: 913 ARRECIFE COURT JADU CONVERSION Calculation Description: TITLE 24 COMPLIANCE DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Calculation Date/Time: 2021-10-12T10:10:14-07:00 Input File Name: 913 ARRECIFE COURT JADU (AA1).ribd19 CF1R-PRF-01E (Page 8 of 8)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurat	te and complete.
Documentation Author Name:	Documentation Author Signature:
LAWRENCE GORDON	X
Company:	Signature Date:
LRG DESIGNS,LLC	2021-10-12 11:06:32
Address:	CEA/ HERS Certification Identification (If applicable):
1207 W. 112TH STREET	
City/State/Zip:	Phone:
LOS ANGELES, CA 90044	323-955-9827
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of C	alifornia:
1. I am eligible under Division 3 of the Business and Professions Code	to accept responsibility for the building design identified on this Certificate of Compliance.
2 I certify that the energy features and performance specifications id	entified on this Certificate of Compliance conform to the requirements of Title 24. Part 1 and Part 6 of the California Code of Regulations

2. 3.			mpliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 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 b	uilding permit application.
	ole Designer Name: RENCE GORDON	E.	Responsible Designer Signature:
Company: LRG D	DESIGNS,LLC HERS	Ρ	Date Signed: 2021-10-12 11:06:32
Address: 1207 V	W. 112TH STREET		License: NA
City/State, LOS A	/Zip: NGELES, CA 90044		Phone: 323-955-9827

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 Number: 221-P010178696B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Registration Date/Time: 2021-10-12 11:06:32 Report Version: 2019.1.100 Schema Version: rev 20190401

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### CERTIFICATE OF COMPLIANCE Project Name: 913 ARRECIFE COURT JADU CONVERSION Calculation Description: TITLE 24 COMPLIANCE

Calculation Date/Time: 2021-10-12T10:10:14-07:00 Input File Name: 913 ARRECIFE COURT JADU (AA1).ribd19

OPAQUE DOORS 01 02 03 04 Side of Building U-factor Name Area (ft<sup>2</sup>) Door 2 FRONT EXTERIOR WALL 1 0.2 20 This set of plans and specifications shall be kept on the site of the structure of SLAB FLOORS 01 02 03 04 05 and shall be made availat upon reque Name Zone Area (ft2) Perimeter (ft) Edge Insul. R-value and Depth Carpenergy of Ficial The stamping of eld to permit nor approve the 498 nor restrictions Slab On Grade 1 JADU 66.332 None OPAQUE SURFACE CONSTRUCTIONS 01 02 05 06 07 5/13/2022, 6**98**6:27 AM 03 04 Total Cavity R-value R-value PRJ-1039503 Surface Type Assembly Layers Ethel Adams Construction Name Construction Type Framing . . . Inside Finish: Gypsum Board RS PROVIDER H Cavity / Frame: R-15 / 2x4 R-15 Wall Stucco Exterior Walls Wood Framed Wall 2x4 @ 16 in. O. C. R-15 None / None 0.087 Sheathing / Insulation: Wood Siding/sheathing/decking Exterior Finish: 3 Coat Stucco Inside Finish: Gypsum Board R-15 **R-15 INTERIOR WALL** Interior Walls Wood Framed Wall 2x4 @ 16 in. O. C. None / None 0.086 Cavity / Frame: R-15 / 2x4 Other Side Finish: Gypsum Board Roofing: Light Roof (Asphalt Shingle) Wood Framed Roof Deck: Wood (E) Asphalt Shingle Roof 2x6 @ 16 in. O. C. R-0 None / None 0.624 Attic Roofs Siding/sheathing/decking Ceiling Cavity / Frame: no insul. / 2x6 Over Ceiling Joists: R-15.7 insul. Ceilings (below Wood Framed R-30 None / None 0.032 Cavity / Frame: R-14.3 / 2x6 R-30 Ceiling 2x6 @ 16 in. O. C. Ceiling attic) Inside Finish: Gypsum Board

Registration Number: 221-P010178696B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Project Name: 913 ARRECIFE COURT JADU CONVERSION

Calculation Description: TITLE 24 COMPLIANCE

CERTIFICATE OF COMPLIANCE

Registration Date/Time: 2021-10-12 11:06:32 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider:

Calculation Date/Time: 2021-10-12T10:10:14-07:00

Input File Name: 913 ARRECIFE COURT JADU (AA1).ribd19

Report Generated: 2021-10-12 10:11:50

CF1R-PRF-01E

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	01				C	12			0	3				04	
Quality	y Insulation I	nstallation (QII)	a	uality I	nstallation of	Spray Foam In	sulation	Building	Envelo	ope Air	Leakage		С	FM50	
	Requir	ed			Not Re	equired			Not Re	quired				n/a	
ATER HEAT	ING SYSTEM	S													
01	1	02			03		04	4			05		06		07
Nan	me	System Type		Dis	tribution Type	e V	/ater Heat	er Name (#)	9	Solar Fr	action (%)	Com	pact Distribution	HERS V	erification
DHW S	ystem	Domestic Hot W (DHW)	ater	Stand	dard Distributi System	ion Tan	kless Wate	r Heater 1 (1)			n/a		None		n/a
ATER HEAT	ERS														
01	02	03	04	05	06	07	08	09	1	0	11		12	13	14
Name	Heating Element Type	Tank Type	# Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input Rating or Pilot	Tank Insulatio R-value (Int/Ext	Recovery		Hr. ng or Rate	NEEA Heat P Brand or Mo Other	•	Tank Location or Ambient Condition	Status	Verified Existing Condition
Tankless Water Heater 1	Natural Gas	Consumer Instantaneous	1	0	0.83-UEF	<= 200 kBtu/hr	0	n/a	n,	/a	n/a		n/a	New	n/a
ATER HEAT	ING - HERS V	ERIFICATION													
01		02			03	04		05			06		07		08
Nam	ne	Pipe Insulation		Parall	el Piping	Compact Dis	tribution	Compact Distrib Type	ution	Recir	culation Contro	ы	Central DHW Distribution		Drain Water Recovery
DHW Syste	- 1/1	Not Required		Not F	Required	Not Reg	uirod	None		N	lot Reguired		Not Required	Not	Required

Registration Date/Time: 2021-10-12 11:06:32 Registration Number: 221-P010178696B-000-000-000000-0000 HERS Provider: CalCERTS inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.1.100 Report Generated: 2021-10-12 10:11:50 Schema Version: rev 20190401

CERTIFICATE OF CO	MPLIANCE										CF1R-PRF-01E
Project Name: 913	ARRECIFE COURT JA	ADU CONVERSION			Calculati	on Date/Tim	<b>1e:</b> 2021	-10-1	2T10:10:14-07	2:00	(Page 6 of 8)
Calculation Descrip	tion: TITLE 24 COM	PLIANCE			Input File	e Name: 913	ARRECI	FE CC	OURT JADU (AA	1).ribd19	
SPACE CONDITIONING	G SYSTEMS										
01	02	03	04		05	06			07	08	09
Name	System Type	Heating Unit Name	Cooling Unit Name		Fan Name	Distribution Name 1		Required rmostat Type	Heating Equipment Count	Cooling Equipment Count	
New HVAC System 1	Heat pump heating cooling	Heat Pump System 1	Heat Pump 1	System	HVAC Fan	None	None S		Setback	1	1
HVAC - HEAT PUMPS											
01	02	03	04	05	06	07	08		09	10	11
Name	System Type	Number of Units	HSPF/COP	Heatin Cap 4	-	Coo	oling EEI	2	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	Ductless MiniSplit HP	1	8.2	24000	0 24000	14	11.	7	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump
HVAC HEAT PUMPS -	HERS VERIFICATION		$\mathbf{Ca}$	H	EKI	5.	$+\mathbf{r}$	H			
01	02	03	04	RC	05	06		= 1	07	08	09
Name	Verified Airflow	Airflow Target	Verified	EER	Verified SEER	Verified Ref Charg		V	erified HSPF	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Requ	uired	Not Required	No			No	No	No
HVAC - FAN SYSTEMS											
	01			02				03			04
	Name			Туре			Fan Pow	er (W	atts/CFM)		Name
	HVAC Fan			HVAC F	an			0.45		HVA	C Fan-hers-fan

### Registration Number: 221-P010178696B-000-000-000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

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HERS Provider: CalCERTS inc. Report Generated: 2021-10-12 10:11:50

### CERTIFICATE OF COMPLIANCE Project Name: 913 ARRECIFE COURT JADU CONVERSION Calculation Description: TITLE 24 COMPLIANCE

GENER	AL INFORMATION										
01	Proje	t Name	913 ARF	L3 ARRECIFE COURT JADU CONVERSION							
02	F	tun Title	TITLE 24	COMPLIANCE							
03	Project I	ocation	909 ARF	RECIFE COURT							
04		City	SAN DIE	GO, CA		05		Standards	Version	2019	
06		Zip code	92154			07		Software	Version	CBECC-Res 2019.1	1 (1107)
08	Clima	ate Zone	7			09		Front Orientation (deg/ C	Cardinal)	327	
10	Build	ing Type	SingleFa	imily		11		Number of Dwellin	ng Units	1	
12	Proje	ct Scope	Additior	Only		13		Number of Be	edrooms	0	
14	New Cond. Floor A	New Cond. Floor Area (ft <sup>2</sup> ) <sup>498</sup>				15	Number of Stories			1	
16	Existing Cond. Floor A	rea (ft <sup>2</sup> )	) 0			17		Fenestration Average U-factor		0.3	
18	Total Cond. Floor A	r Area (ft <sup>2</sup> ) 498			19	Glazing Percentage (%)			6.22%		
20				21		ADU Conditioned Flo	oor Area	498			
			4	La		·K		inc			
Additio	on Alone Project Analysis Parameter	s		Cu		1.1		<i>,</i>	)		1
	01			<sup>02</sup>	RS	03 R	OV	D <sup>04</sup> ER		05	06
Exist	ing Area (excl. new addition) (ft2)	Addition	n Area (e	excl. existing) (ft2)	) Total	l Area (ft2)		Existing Bedrooms	Addi	tion Bedrooms	Total Bedrooms
	0		498 4			498	98 0			1	1
COMPL	LIANCE RESULTS										
	01 Building Complies with Complexity Complex	omputer l	Perform	ance							
	02 This building incorporate	s features	that re	quire field testing	and/or verificat	tion by a ce	ertified HE	RS rater under the supervi	ision of a	CEC-approved HE	RS provider.
	03 Building does not incorpo										

Registration Number: 221-P010178696B-000-000-000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

CERTIFICATE OF COMPLIANCE Project Name: 913 ARRECIFE COURT JA

alculation	Description:	TITLE	24 CO

Energy Use (kTDV/ft <sup>2</sup> -yr)
Space Heating
Space Cooling
IAQ Ventilation
Water Heating
Self Utilization Credit
Compliance Energy Tota
EQUIRED SPECIAL FEATURES
he following are features that must be in
NO SPECIAL FEATURES REQUIRED
ERS FEATURE SUMMARY
he following is a summary of the feature etail is provided in the buildng tables be
uilding-level Verifications: Quality insulation installation (QII) Indoor air quality ventilation Kitchen range hood cooling System Verifications: None leating System Verifications: None IVAC Distribution System Verifications: None comestic Hot Water System Verifications None

Registration Number: 221-P010178696B-000-000-000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

CERTIFICATE OF COMPLIANCE Project Name: 913 ARRECIFE COURT JADU CONVERSION Calculation Description: TITLE 24 COMPLIANCE										•			-10:10:14- RT JADU (/	07:00 4A1).ribd19			CF1R-PRF-01E (Page 3 of 8)
ZONE INFORMATION																	
01		02		03		04			05				06			07	
Zone Name		Zone Typ	e	HVAC System Nan	ne	Zone F	loor Are	ea (ft <sup>2</sup>	<sup>2</sup> )	Avg. (	Ceiling H	eight	Water H	leating Syste	m 1 V	Vater Hea	ating System 2
JADU		Condition	ed	New HVAC System	1		498				8.416		Dł	HW System			N/A
OPAQUE SURFACES																	
01		02		03		04			05			06		07			08
Name		Zone		Construction		Azimutł	h	Orientation Gross A		s Area (f	t <sup>2</sup> ) Window and Doo Area (ft2)			Т	ïlt (deg)		
FRONT EXTERIOR WALL 1	WALL JADU			R-15 Wall Stucco		327		327 Front		198.474			35		90		
RIGHT EXTERIOR WALL 1	L JADU			R-15 Wall Stucco	237		237		Right		1	61.301		16		90	
REAR EXTERIOR WALL 1		JADU		R-15 Wall Stucco	147		147		Back		1	98.474		0			90
Ceiling (below attic) 1		JADU		R-30 Ceiling		n/a	- K		n/a		Ir	498		n/a n/a		n/a	
		_							1	1			5 <b>O</b>				
ATTIC				HE	R	S	PF	<u></u> (	0	V I	D	<u>E</u> R					
01		02		03		04		05			06			07		08	
Name		onstruction		Туре	Root	f Rise (x	in 12)	Roof	Reflect	ance	Roof Emittance		ce	e Radiant Barrier		Cool Roof	
Attic	(E) Asp	halt Shingle R	oof	Ventilated		4			0.1			0.85		No		No	
FENESTRATION / GLAZI	NG																
01 02			03	0	4	05		06	07	08	09	10	11	12	13	14	
Name Type			Surface	Orien	tation	Azimu	ıth	Width (ft)	Height (ft)	Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	ѕндс	SHGC Sourc e	Exterior Shading	
Window B(1)		Window	FROM	NT EXTERIOR WALL 1	Fro	ont	327	'	5	3	1	15	0.3	NFRC	0.23	NFRC	Bug Screen
Window A(1)		Window	RIGH	IT EXTERIOR WALL 1	Rig	ght	237	'	4	4	1	16	0.3	NFRC	0.23	NFRC	Bug Screen

Registration Number: 221-P010178696B-000-000-000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

Calculation Date/Time: 2021-10-12T10:10:14-07:00 Input File Name: 913 ARRECIFE COURT JADU (AA1).ribd19 CF1R-PRF-01E (Page 1 of 8)

Registration Date/Time: 2021-10-12 11:06:32 Report Version: 2019.1.100 Schema Version: rev 20190401

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JADU CONVERSION MPLIANCE		Calculation Date/Time: 2021-: Input File Name: 913 ARRECIF		CF1R-PRF-01 (Page 2 of 8
)	ENERGY U Standard Design	ISE SUMMARY Proposed Design	Compliance Margin	Percent Improvement
I	0.39	0.52	-0.13	-33.3
	18.03	18.52	-0.49	-2.7
	3.63	3.63	0	0
	64.89	63.84	1.05	1.6
	n/a	0	0	n/a
1	86.94	86.51	0.43	0.5

installed as condition for meeting the modeled energy performance for this computer analysis.

tures that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional HERS PROVIDER

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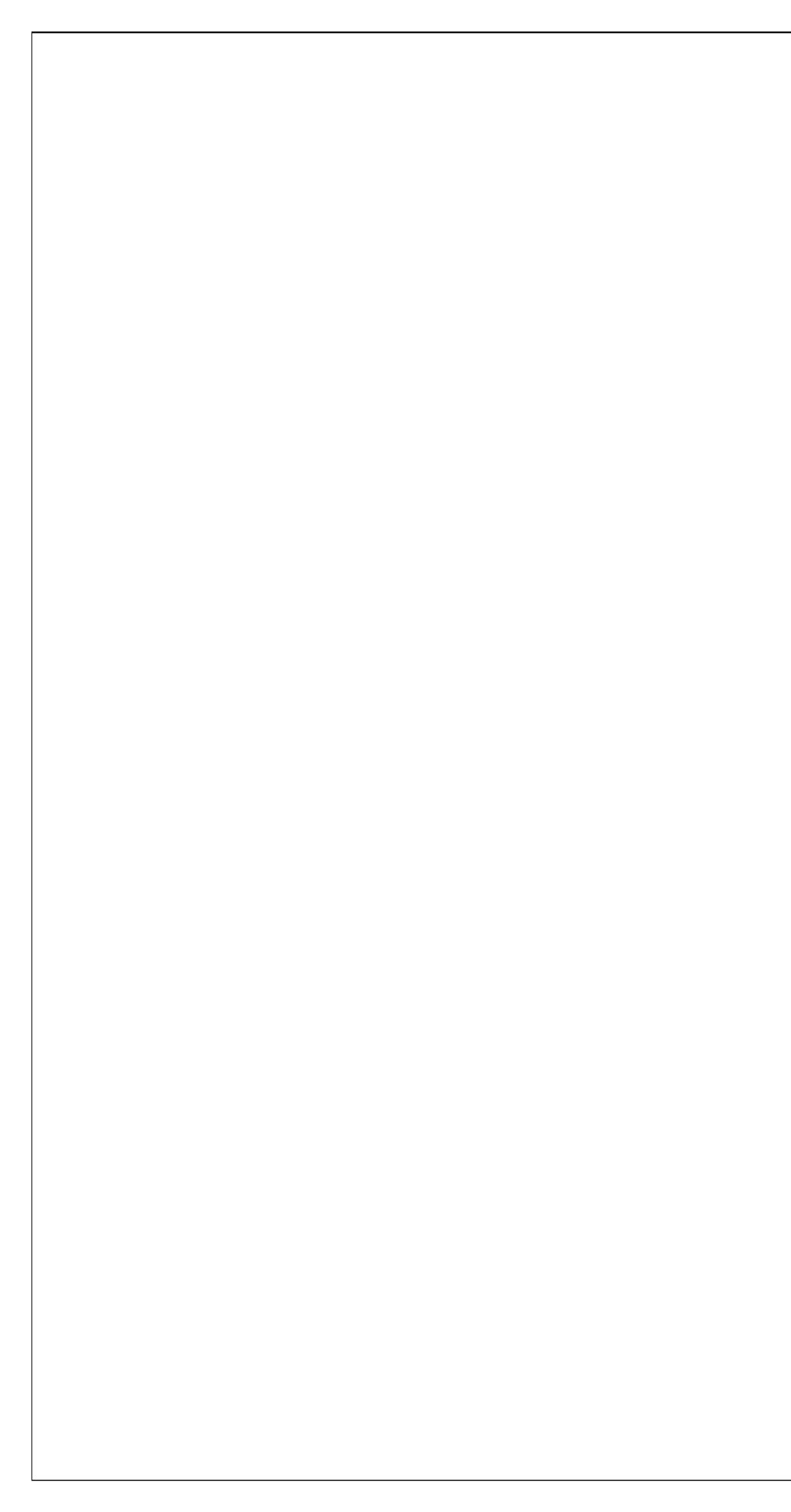
Registration Date/Time: 2021-10-12 11:06:32 Report Version: 2019.1.100 Schema Version: rev 20190401

HERS Provider: CalCERTS inc. Report Generated: 2021-10-12 10:11:50

OF

SHEETS

		/ DATE
$\sum$		
		P.O. BOX 41418 LOS ANGELES, CA 90041 (323)955-9821 EMAIL:LRGDESIGNS914@GMAIL.COM
U, AND JADU	CIFE COURT 54	
PROJECT:SFD ALTERATION, ADU, AND JADU	SITE ADDRESS: 909, 911, 913 ARRECIFE COURT SAN DIEGO, CA 92154	OWNER: MORENO RESIDENCE
PROJECT:SFD ALTERATION, AD		OWNER: MORENO RESIDENCE
	10/12	
DATE	10/12	



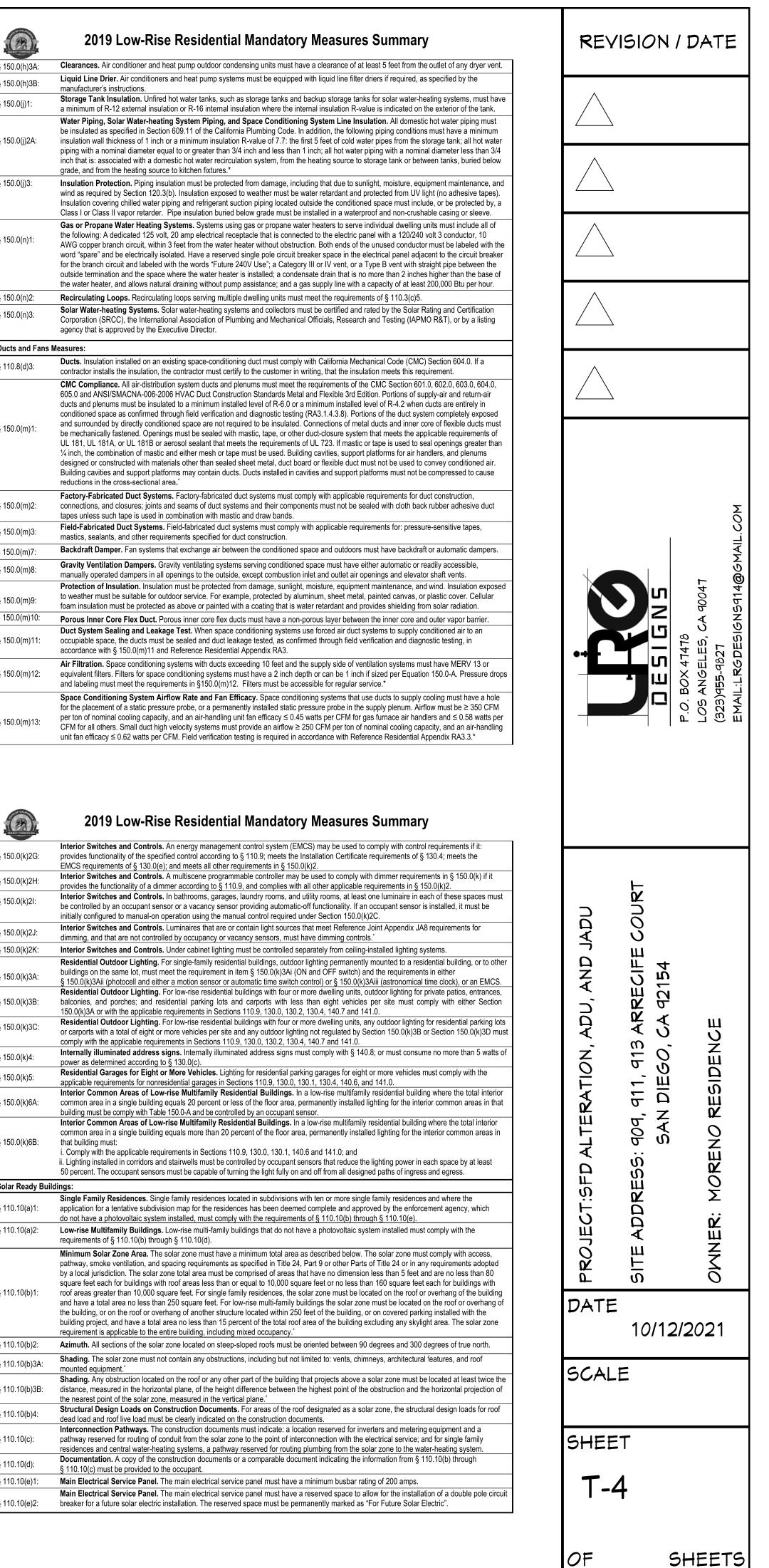


### 2019 Low-Rise Residential Mandatory Measures Summary

	2019 Low-Rise Residential Mandatory Measures Summary	1
<u>NOTE:</u> Low-rise re	esidential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach	§ 1
used. Review the (Original 08/2019)	respective section for more information. *Exceptions may apply.	§ 1
Building Envelop	be Measures:	§ 1
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 cfm per square foot or less when tested per NFRC-400, ASTM E283 or AAMA/WDMA/CSA 101/I.S.2/A440-2011.*	3 '
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of Section 10-111(a).	§ 1
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather stripped.*	3 1
§ 110.7:	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.	
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation mus and Services (BHGS).	§ 1
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated	
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance and Thermal Emittance reflectance values of the roofing material must meet the requirements of § 110.8(i) and be laided per \$10-113 when the instance of a coll roof is specified on the CF1R.	§ 1
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.	81
§ 150.0(a):	<b>Ceiling and Rafter Roof Insulation.</b> Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and specification as specified in § 110.7, including but not limited	
\$ 150 0(b);	to placing insulation either above or below the roof deck or on top of a drough ceiling dams. Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.	§ 1
§ 150.0(b): § 150.0(c):	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less, (R-19 in 2x6 or U-factor of 0.074 or less). Opaque non-framed assemblies must have an overall assembly U-	§ 1
§ 150.0(d):	factor not exceeding 0.102, equivalent to an installed value of R-13 in a wood framed assembly. Masonry walls must meet Table 150.1-A or B.* <b>Raised-floor Insulation</b> . Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.*	Du
	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without	§ 1
§ 150.0(f):	facings no greater than 0.3%; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).	<b>.</b>
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(d).	
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.	§ 1
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58.*	
Fireplaces, Deco	rative Gas Appliances, and Gas Log Measures:	
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.	
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.	
§ 150.0(e)2:	<b>Combustion Intake.</b> Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.*	§ 1
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*	§ 1
Space Condition	ing, Water Heating, and Plumbing System Measures:	§ 1
§ 110.0-§ 110.3:	<b>Certification.</b> Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the Energy Commission.*	§ 1
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-K.*	
§ 110.2(b):	<b>Controls for Heat Pumps with Supplementary Electric Resistance Heaters.</b> Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating. <sup>*</sup>	§ 1 § 1
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.*	§ 1
§ 110.3(c)4:	Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)4.	§ 1
§ 110.3(c)6:	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBTU per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.	3
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (appli- ances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt); and pool and spa heaters.*	
§ 150.0(h)1:	<b>Building Cooling and Heating Loads.</b> Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.	§ 1

equirements for	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(o)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 as specified in § 150.0(o)1C.
150.0(o)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
100.0(0)12.	system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be $\leq$ 0.3 CFM at 50 Pa
	(0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential Appendix RA3.8.
50.0(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 150.0-B. All unit airflows must be within 20% of the unit with the lowest airflow rate as it relates to the individual unit's minimum required airflow rate needed for compliance.
150.0(o)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 ventilation airflow must be verified in accordance with Reference Residential Appendix RA3.7. Kitchen range hoods 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.
ool and Spa Sy	ystems and Equipment Measures:
<u> </u>	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficiency
110.4(a):	that complies with the Appliance Efficiency Regulations; an on-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.
10.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
50.0(p):	<b>Pool Systems and Equipment Installation.</b> Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.*
ghting Measu	
-	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements
10.9:	of § 110.9.*
150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A.
50.0(k)1B:	Blank Electrical Boxes. The number of electrical boxes that are more than 5 feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or 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-A 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. Lamps and other separable light sources that are not compliant with the JA8 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 required 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 no
150.0/1/201	more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
50.0(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: 150.0(k)2C:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems.* Interior Switches and Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually
. ,	turned ON and OFF.*
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 must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed to
150.0(k)2E:	comply with § 150.0(k).
150.0(k)2F:	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.

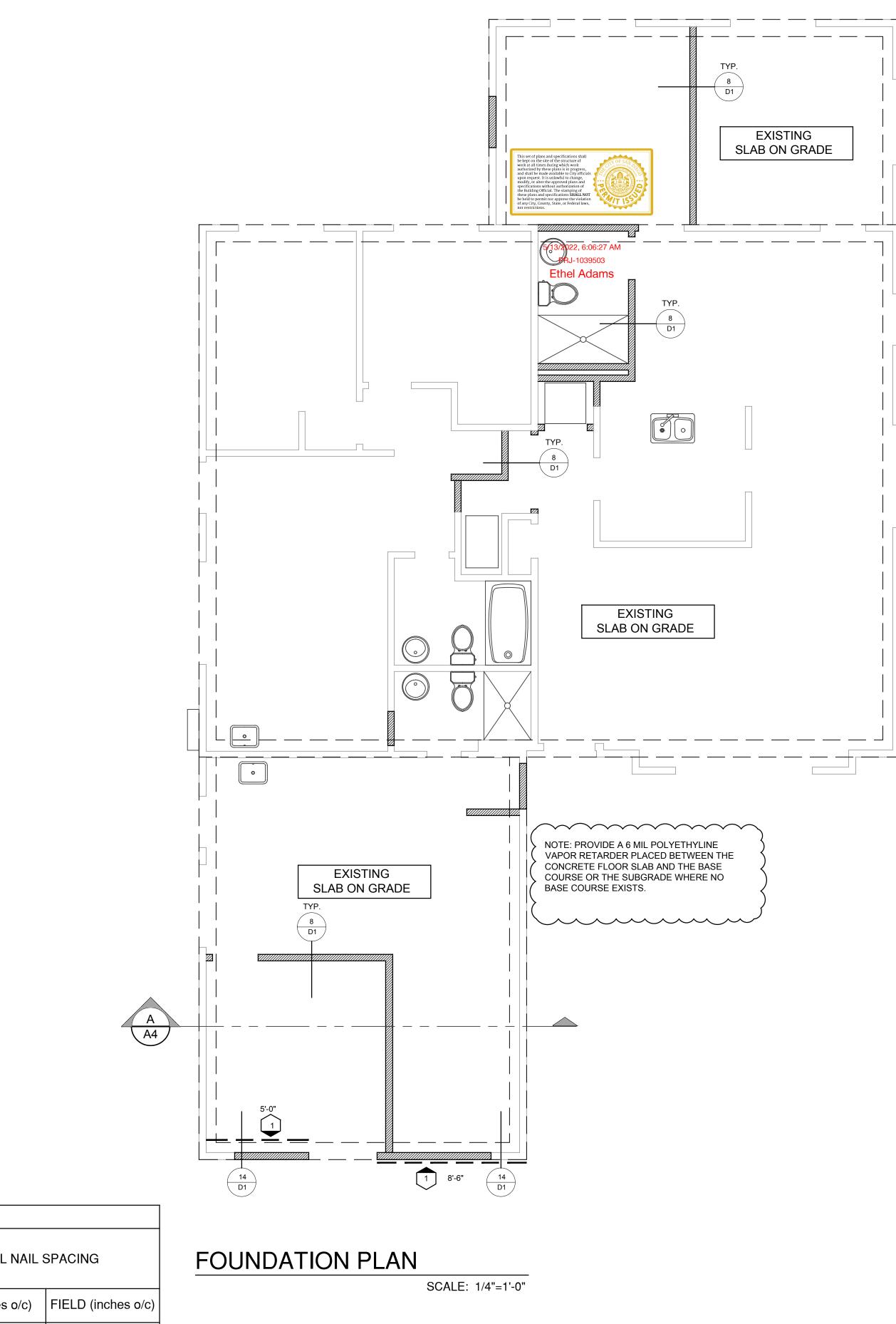
2019 Low-Rise Residential Mandatory Measures Summary



	WOOD STRUCTURAL PANEL SHEATHING										
MARK	MINIMUM NAIL		MINIMUM WOOD STRUCTURAL PANEL SPAN	MINIMUM NOMUNAL PANEL THICKNESS	MAXIMUM WALL STUD SPACING (in)	PANEL					
	SIZE	PENETRATION (in)	RATING	(in)		EDGES (inches					
	6D COMMON	1.5	24:0	<u>3</u> " 8	16	6					
	8D COMMON 1.75		24:16	<u>7</u> " 16	16	6					

WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS 1, DOC PS 2 OR ANSI/APA PRP 210, CSA O437 OR CSA O325. PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY

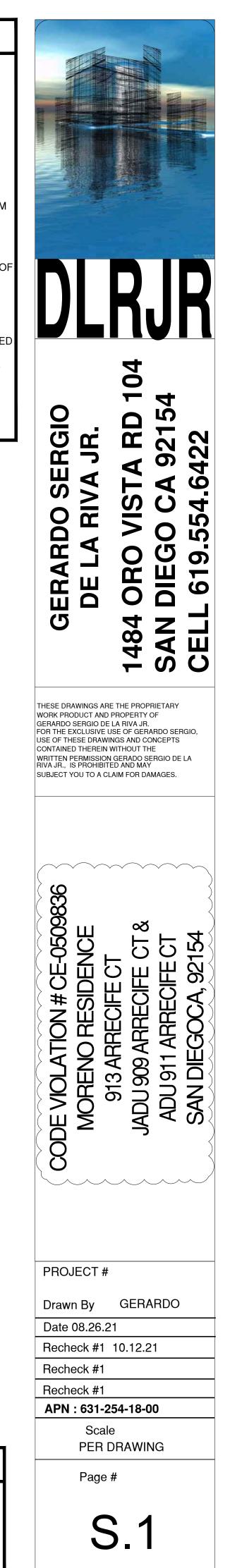
VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON STUDS. HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER AND BE FASTENED TO COMMON BLOCKING OF A MINIMUM 1  $\frac{1}{2}$  INCH THICKNESS.



es o/c) FIELD (inches o/c) 12 12

## FOUNDATION NOTES

- 1. ALL ANCHORS BOLTS SHALL BE <sup>5</sup>/<sub>8</sub>" DIAMETER AND HAVE A MINIMUM EMBEDMENT OF 7 INCHES INTO CONCRETE (UNO) AND NOT SPACED MORE THAN 6 FEET APART
- 2. 3"X3"X0.229" PLATE WASHERS SHALL BE USED ON EACH SILL PLATE ANCHOR BOLT
- 3. FOR STANDARD CUT WASHERS PLACED BETWEEN PLATE WASHER AND NUT, HOLE IN PLATE WASHER MAY BE DIAGONALLY SLOTTED WITH MAXIMUM  $\frac{3}{16}$ " LARGER WIDTH THAN BOLT DIAMETER AND MAXIMUM 1-3/4" SLOT LENGTH
- PROVIDE A MINIMUM OF TWO ANCHOR BOLTS PER SILL PLATE WITH ONE BOLT LOCATED MAXIMUM 12" AND MINIMUM 7 BOLT DIAMETERS FROM EACH END OF EACH SECTION.
- 5. BOLTS LOCATED IN THE MIDDLE THIRD OF THE SILL PLATE WIDTH
- 6. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL OR COPPER
- 7. NO LPG PIPING ASSEMBLIES ALLOWED IN OR BENEATH SLABS WITHIN THE STRUCTURE



## WALL LEGEND

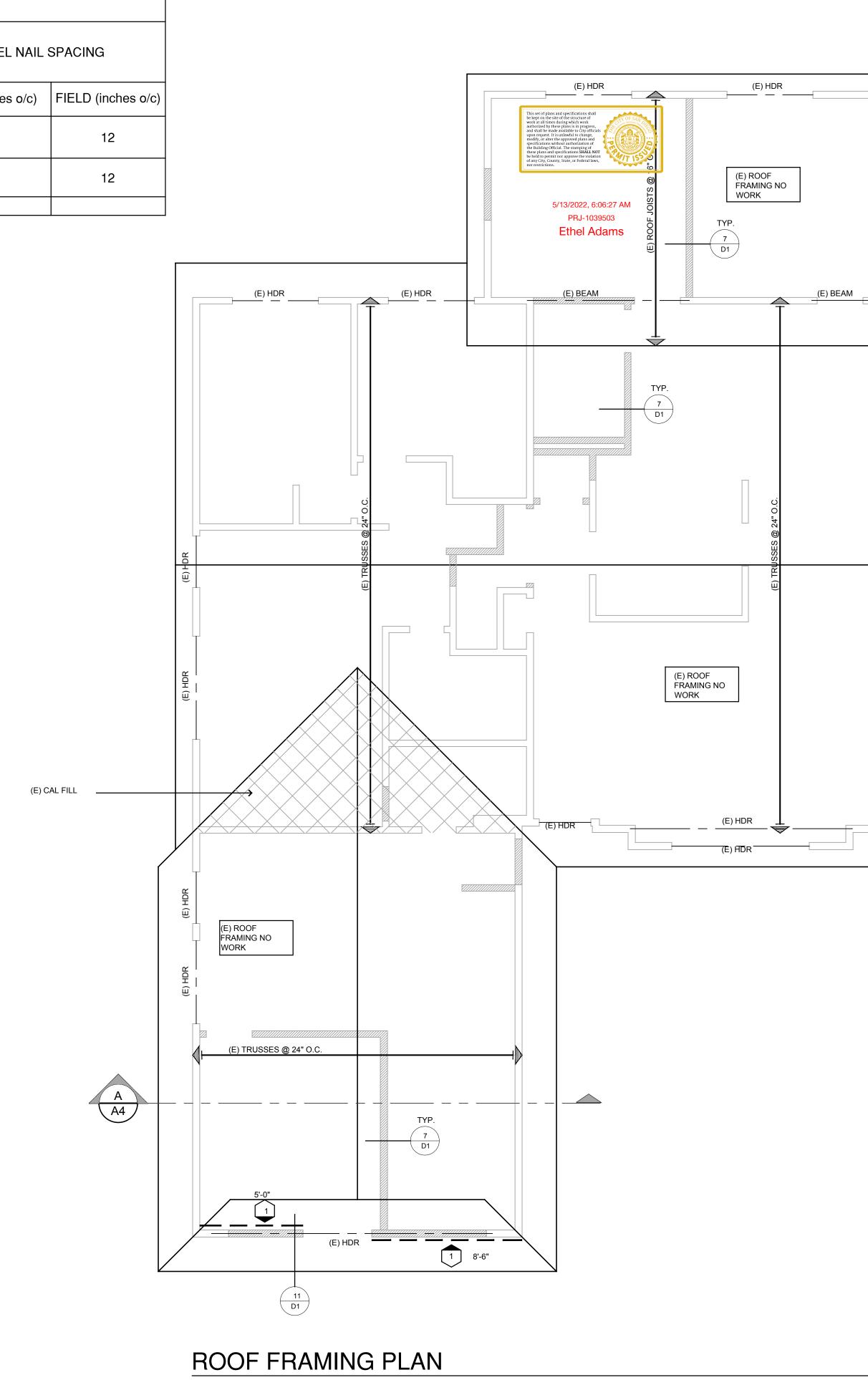
EXISTING WALL TO BE REMOVED EXISTING 2 x STUD WALL TO REMAIN NEW 2 x 4 STUD WALL FRAMED @ 16" O.C. NEW 2 x 6 STUD WALL FRAMED @ 16" O.C.

			WOOD STR	RUCTURAL PANE	EL SHEATHING	
MARK	MINIM	IUM NAIL	MINIMUM WOOD STRUCTURAL PANEL SPAN	MINIMUM NOMUNAL PANEL THICKNESS	MAXIMUM WALL STUD SPACING (in)	PANEL
	SIZE	PENETRATION (in)	RATING	(in)		EDGES (inches
	6D COMMON	1.5	24:0	<u>3</u> " 8	16	6
	8D COMMON	1.75	24:16	<u>7</u> " 16	16	6

WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS 1, DOC PS 2 OR ANSI/APA PRP 210, CSA O437 OR CSA O325. PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY

VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON STUDS.

HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER AND BE FASTENED TO COMMON BLOCKING OF A MINIMUM 1  $\frac{1}{2}$  INCH THICKNESS.

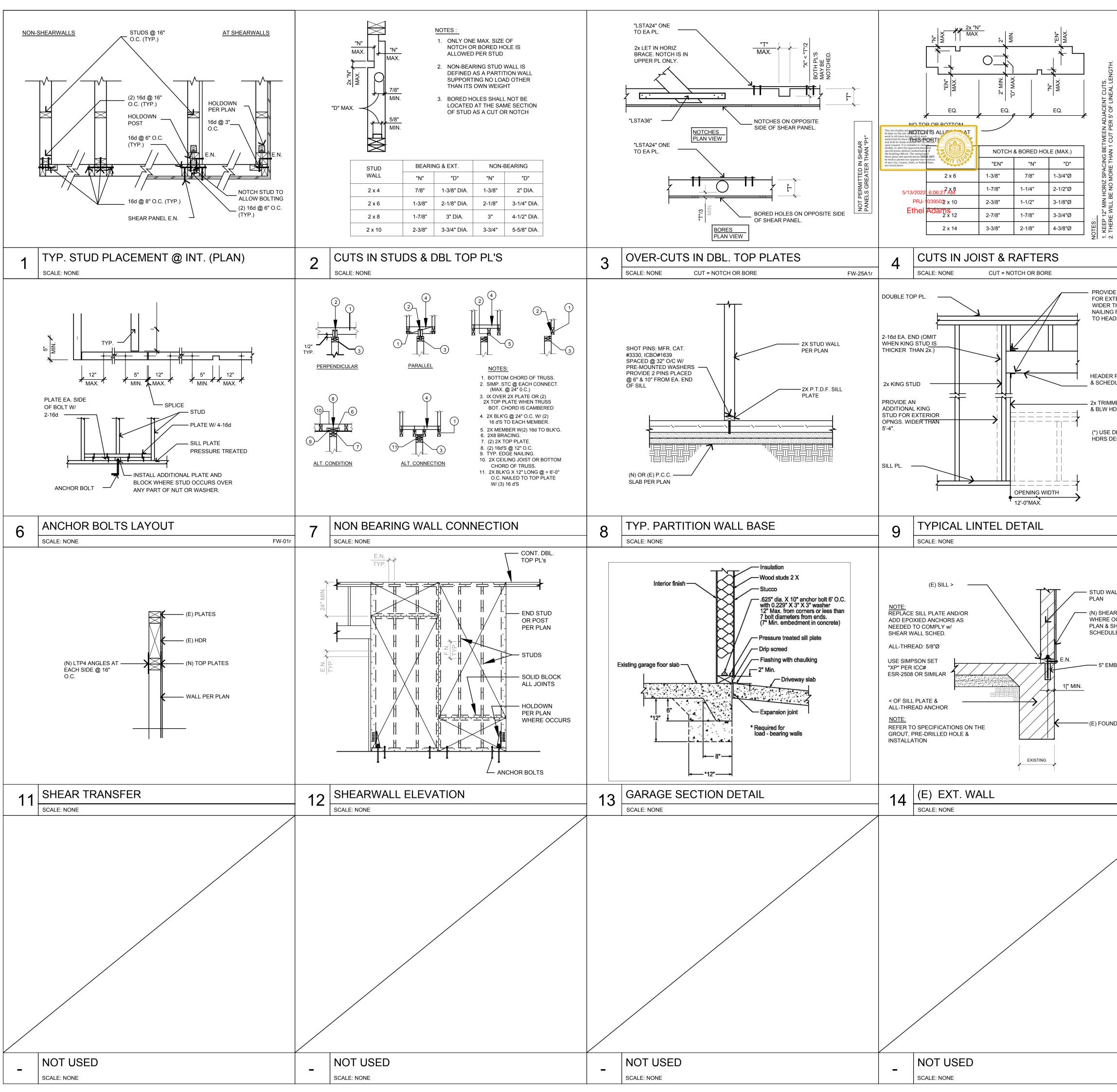


<b>GERARDO SERGIO</b>	DE LA RIVA JR.	<b>1484 ORO VISTA RD 104</b>	<b>SAN DIEGO CA 92154</b>	CELL 619.554.6422
THESE DRA WORK PROI GERARDO S FOR THE EX USE OF THE CONTAINED WRITTEN PI RIVA JR., IS SUBJECT YO	DUCT AND BERGIO DE CCLUSIVE ( SE DRAWI D THEREIN FROHIBIT DU TO A CI	PROPERTY LA RIVA JR. JSE OF GER NGS AND CO WITHOUT TH I GERADO S ED AND MA'	OF ARDO SEF ONCEPTS HE ERGIO DE Y AMAGES.	,
PROJ Drawn Date 0 Reche Reche	08.26.2 eck #1 eck #1 eck #1 <b>631-2</b> Scal PER I PER I	21 10.12.2 2 <b>54-18-0</b> e DRAWII	<b>D0</b> NG	

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

WALL LEGEND

EXISTING WALL TO BE REMOVED EXISTING 2 x STUD WALL TO REMAIN NEW 2 x 4 STUD WALL FRAMED @ 16" O.C. NEW 2 x 6 STUD WALL FRAMED @ 16" O.C.



2. IHERE WILL BE NO MORE I HAN 1 CUI PER 5' OF LINEAL LENGIH.	DBL POS DBL PER STR PLA DOU PL. KING	AP PER N UBLE TOP G AS DD FOR	OD DR TUDS AN	billing of the second sec					
	5	TYP. BM. TO	TOP PL	ATE			104		
DE 2-"A34" @ EA. END		SCALE: NONE					215 B 215 B 215 B		
XTERIOR OPNGS. R THAN 5'-4" AND WHEN G FROM KING STUD ADER IS OMITTED.	F						12 0 V J R		
ADER IS OMITTED.	-	ROOF	SIZE	FLOOR	SIZE		STA STA CA 64		
	ŀ	0'-0" TO 3'-11"	4 x 4	0'-0" TO 3'-11"	4 x 6				
R PER PLAN EDULE		4'-0" TO 5'-11"	4 x 6	4'-0" TO 5'-11"	4 x 8		AR FG FG FG		
IMER (*) ABV	-	6'-0" TO 7'-11" 8'-0" TO 9'-11"	4 x 8 4 x 10	6'-0" TO 7'-11" 8'-0" TO 9'-11"	4 x 10 4 x 12				
HDR	Ľ	10'-0" TO 11'-11"	4 x 12	10'-0" TO 11'-11"	4 x 14				
DBL. TRIMMER FOR DEEPER THAN 10"							CEA CEA CE		
/ALL PER	GA FILE GYPSUM W	2) REFER TO DETAILS TYP. BEAM H SCALE: N.T.S. ND INTERIOR PARTITIC NO. WP 3241 VALIBOARD, RESILIENT CHAN INSULATION, WOOD S	D-1 EADER ONS, WOO PROPRI NNELS, MINER TUDS	D FRAMED ETARY† 1 HO AL FIBER			THESE DRAWINGS ARE THE PROPRIETARY WORK PRODUCT AND PROPERTY OF GERARDO SERGIO DE LA RIVA JR. FOR THE EXCLUSIVE USE OF GERARDO SERGIO, USE OF THESE DRAWINGS AND CONCEPTS CONTAINED THEREIN WITHOUT THE WRITTEN PERMISSION GERADO SERGIO DE LA RIVA JR., IS PROHIBITED AND MAY SUBJECT YOU TO A CLAIM FOR DAMAGES.		
AR WALL COCCURS PER SHEAR ULE MBED. (MIN)	Resilient channels 24" o.c. attached at right angles to ONE SIDE of 2 x 4 wood studs 16" or 24" o.c. with 1 1/4" Type S drywall screws. One layer 5/8" proprietary type X gypsum wallboard or gypsum veneer base applied parallel to channels with 1" Type S drywall screws 12" o.c. End joints backblocked with resilient channels. 3" mineral fiber insulation, 2.0 or 2.3 pcf, in stud space. OPPOSITE SIDE: one layer 5/8" proprietary type X gypsum wallboard or gypsum veneer base applied at right angles to studs with 1 1/4" Type W drywall screws 12" o.c. Vertical joints staggered 48" on opposite sides. Sound tested with studs 16" o.c. and open face of mineral fiber insulation blankets toward resilient channel-side of stud space. Thickness: 5 3/8" Approx. Weight: 5 3/8" Approx. Weight: 5 1/9 f Based on ULL P3660-Z								
NDATION	PROPRIETARY GYPSUM BOARD       8-18-87; UL R7094, 10-24-90; UL Design U311         American Gypsum Company CertainTeed Gypsum, Inc.       5/8" FOROCom Type C Gypsum Panels 5/8" ToughRock® Fireguard® C Lafarge North America Inc.       5/8" ForoRocm Type C Gypsum Panels 5/8" ToughRock® Fireguard® C Lafarge North America Inc.       8-18-87; UL R7094, 10-24-90; UL Design U311       10-24-90; UL Design U311         Sound Test:       5/8" ForoRocm Type C Gypsum Panels 5/8" ToughRock® Fireguard® C Lafarge North America Inc.       5/8" Firecheck® Type C Gypsum Wallboard       Sound Test:       Estimated         PABCO Gypsum       1/2" FLAME CURB® Super 'C' Temple-Inland Forest Products Corporation       5/8" TG-C       5/8" TG-C								
							DE VIOI MORE 913 913 ADU 9 SAN 9		
	15	1 HOUR RATE	ED WAL	_L			8		
							PROJECT # Drawn By GERARDO Date 08.26.21 Recheck #1 10.12.21 Recheck #1 Recheck #1 APN : 631-254-18-00 Scale PER DRAWING Page #		
	_ NOT USED						D1		
		SCALE: NONE							