

DIVISION 26 - ELECTRICAL

ELECTRICAL NOTES

1. GROUNDING ELECTRODE SYSTEM: Electrician shall provide and locate the grounding electrode system conforming to CEC 250-8.1.
2. SMOKE DETECTORS: Contractor shall verify the existence of or install smoke detectors and carbon monoxide detectors in accordance with state law, notes below, and drawings. Alarms shall receive their primary power from the building wiring and shall be equipped with a battery backup. Alarms in existing areas where access to the area of the ceiling is not possible may be powered by a D/C battery source.
3. KITCHEN CIRCUIT: Provide at least two separate 20 amp circuits for small appliances in kitchen, pantry, dining room and similar areas, with no other outlets on the circuits. CEC 210-11 (c)(1), 210-52 (b)
4. LAUNDRY CIRCUIT: Provide a dedicated 30-amp circuit serving dryer in addition to one separate 20-amp circuit serving other laundry appliances. CEC 220-4(c)
5. BATH OUTLETS: Provide at least one 20 amp circuit for bathroom outlets with no other outlets on the circuit. CEC 210-52(d).
6. CLOTHES CLOSET LAMPS: Light fixture clearances shall conform to CEC 410-8.
7. LUMINAIRE EFFICACY - All installed luminaires shall be high-efficacy. CEnec 150.0(k)1.A
8. The following table defines high efficacy lighting CEnec Table 150.0-A.

HIGH EFFICIENCY LIGHT SOURCES

Light sources other than those installed in ceiling recessed downlight luminaires, are classified as high efficacy and are not required to comply with Reference Joint Appendix JAB.

1. Pin-based linear or compact fluorescent light sources using electronic ballasts

2. Pulse-start metal halide

3. High pressure sodium

4. GU-24 sockets containing light sources other than LEDs

5. Luminaires with hardwired high frequency generator and induction lamp

6. Inseparable SSL luminaires that are installed outdoors

7. Inseparable SSL luminaires containing colored light sources that are installed to provide decorative lighting

- Light sources shall be certified to the Commission as High Efficacy Light Sources in accordance with Reference Joint Appendix JAB and marked as meeting JAB.
8. All light sources in ceiling recessed downlight luminaires. Note that ceiling recessed downlight luminaires shall not have screw bases regardless of lamp type as described in Section 150.0(k)1.C.
9. GU-24 sockets containing LED light sources
10. Any light source not otherwise listed in the table and certified to the Commission as complying with Joint Appendix B.
9. BATHROOMS, GARAGE, LAUNDRY & UTILITY ROOM LIGHTING - At least one luminaire in each of these spaces shall be controlled by a vacancy sensor. CEnec 150.0(k)2.J.
10. RECESSED LIGHTING FIXTURES shall be rated as air-tight (AT) and, when installed in an insulated ceiling, shall have an approved zero clearance insulation cover (IC). (2013 CA Title 24 Section 150)
11. LIGHT FIXTURES in tub or shower enclosures or other wet/damp locations shall be labeled "suitable for damp locations." CEC 410-4(a)
12. OUTLETS: In every habitable room an electrical outlet shall be installed so that no point along the floor line in a wall space is more than six feet measured horizontally, from any outlet in that space, including any wall space two feet or more in width, the wall space occupied by fixed panels in exterior walls, and feed room dividers. NEC Article 210-52.
13. NEW OUTLETS (including receptacles, switches, lighting, and hard-wired smoke detectors) in bedrooms, hallways, living rooms, dining rooms, kitchens, and similar areas must be on circuits protected with a combination arc-fault breaker. (2013 CEC 210.12)
14. RECEPTACLES installed in the following locations must be GFCI protected: exterior, garage, bathrooms, and above the kitchen countertop. (2013 CEC 210.12).
15. LOAD CALCULATIONS: Contractor to submit electrical load calculations for the sizing of the electrical panels to the building department for approval prior to installation.
16. SMOKE DETECTORS: Smoke detectors shall be powered by building wiring with battery back-up. Provide smoke detectors in the following areas (as applicable): - at each story and basement - within each bedroom and centrally located in the corridor or area giving access to each sleeping area - in each room where non-bedroom ceiling heights exceed the hall ceiling height by more than 2'.
17. CARBON MONOXIDE alarms are to be installed outside each bedroom per CRC 315.2
18. ALL 125 volt, 15- and 20- ampere receptacle outlets shall be listed tamper resistant receptacles per CEC 406.11

DIVISION 31 - EARTHWORK

EXCAVATION NOTES

1. Refer to architectural and structural drawings for exact dimensions: details of foundation systems: floor plans, etc.
2. Utilities shown are diagrammatic and show only delivery to building, internal site utilities are not depicted. All work shall conform to respective utility company's specifications. Provide sleeves through walls as required to accommodate underground utilities.

GRADING NOTES

1. Contractor shall verify existing contours and general site conditions and report any discrepancies to architect prior to start of work.
2. Grading shall be performed as recommended by the geotechnical investigation.
3. Unless noted otherwise, all retaining walls shall have a waterproof membrane on the backside; back fill with crushed rock and place a minimum 4" diameter perforated pipe at bottom. Provide positive drainage to safe discharge away from building. Provide cleanouts at dead ends and at turns greater than 45 degrees.
4. Provide sleeves through walls as necessary to accommodate all underground utilities.
5. Provide slope of 5% (or 2% for impervious surfaces) within 10 feet of dwelling's foundations per CBC1804.3 and COGC 4.106.3.

DIVISION 32 - EXTERIOR IMPROVEMENTS

SITE DRAINAGE NOTES

1. DRAIN PIPE: Provide a 4 inch perforated pipe (holes down) Behind every retaining wall and perimeter footing set in drain rock. Provide clean-outs at dead ends and at turns greater than 45 degrees.

DIVISION 32 - EXTERIOR IMPROVEMENTS (continued)



Marin County Stormwater Pollution Prevention Program
Minimum Erosion/Sediment Control Measures
For Small Construction Projects

