

BUILDING REGULATION DIVISION COMMUNITY DEVELOPMENT

DEPARTMENT

CITY OF TORRANCE

PHOTOVOLTAIC INSPECTION

GENERAL REQUIREMENTS FOR RESIDENTIAL

CODE ENFORCED: 2022 CBC, CMC, CEC, CPC, CRC, CFC, 2018 NDS, and TMC This information provided in this document is general and intended as a guide only. Each project is unique and additional requirements may be enforced as deemed appropriate. (Small residential rooftop solar energy system under 10k & Thermal under 30k) *Please allow up to 3 business days turnaround time for small rooftop solar PV.

REQUIREMENTS FOR RESIDENTIAL PERMIT SUBMITTAL:

Before approval and issuance of permit(s) for solar panel/photovoltaic systems, the applicant shall submit: One (1) set of plans by email to <u>SolarPlanCheck@TorranceCA.Gov</u> which are drawn to scale, readable, and legible; A completed building permit application, BMP form, and the solar checklist.

GENERAL REQUIREMENTS:

The approved plans, permit and installation instructions shall be on site at time of inspection.

Field installation shall be per code/plan. Changes shall be submitted to the city for approval prior to inspection.

If a new roofing system is going to be installed, a **separate roofing permit** and inspections are required. See checklist for specific roof being installed. Flashing and counter flashings are required.

Where "DC" wiring is installed inside the structure a separate rough inspection must be scheduled.

100A Main Service required electrical load calculation. Any service upgrade must be listed on the electrical permit.

- Verify <u>Orange</u> sticker from utilities is posted on main electrical service. (If new service upgrade need it)
- All connections shall be secure.
- Unused openings shall be closed with protection equivalent to the wall of the enclosure. CEC 408.7
- Installer shall have ladder on site and set up at time of inspection. The ladder shall be extended 36" above the roof, and the ladder shall be secured at the roof. OSHA
- All equipment shall be open and ready for inspection.
- Provide working clearances per CEC 110.26.
- Provide work space of a height of 6' 6". CEC 110.26 (A)(3)
- All metallic raceways and equipment shall be bonded and electrically continuous.
- Where junction boxes are installed under the array and not readily accessible, the module shall be removed for inspection.

MAIN ELECTRIC SERVICE

- The inspector shall check existing panel for hot spots or unsafe conditions. If existing panel is found to be unsafe, it may be necessary for the property owner to hire a licensed electrician to make repairs or replace equipment. Any repairs or replacement shall happen prior to the photovoltaic final or hook ups.
- Verify utility AC disconnect is located within sight and within 10 feet of main electrical service. AC disconnect shall be readily accessible with visible-blades, and lockable.
- Verify utility point of interconnection is per plan, does not exceed 20% of the bus rating and is installed at the opposite end from the input feeder. CEC 705.12(B)(2) and 705.12(7)
- Circuit breakers shall be of the same manufacturer (Listed) as the main electrical service.
- When a back fed breaker is the method of utility interconnection, breaker shall not read "line and load"
- Verify existing AC grounding electrode system UFER or 2 driven ground rods. The connection to the grounding electrode shall remain accessible. CEC 250.68(a)
- If there is not an existing AC grounding electrode, PV contractor shall install two driven ground rods at the main electrical service per CEC 250.52(5).
- Where the existing grounding electrode is a single driven ground rod, an additional ground rod shall be driven. Ground rods shall be a minimum of 6' apart. CEC 250.53

PANELBOARD

- Where the system is backfeeding a panelboard, the breaker must be installed at the opposite end from the input feeders or main circuit location. Exception: Where the rating of the panelboard is less than the sum of the OCPD supplying it. CEC 705.12(B)
- Center fed electrical services cannot use the 125% rule per CEC 705.12

DC DISCONNECT

- A ground bushing is required around remaining pre-punched concentric or eccentric knockouts on the DC side. CEC 250.97
- Where DC conductors are installed underground, conductors shall be buried 18" or more below grade and a warning tape installed 12" above the conduit. Label conduit per the "Sign and Label" requirements. CEC 300.5 (L)
- **Imbedded conduit** in built-up, laminate, or membrane roofing materials in roof areas not covered by PV modules must be clearly marked. CEC 690.4(F)
- DC conductors installed inside the structure shall be installed in a metallic conduit such as RMC.
- DC wires shall be installed in a metallic raceway where the maximum system voltages are greater than 30 volts. CEC 690.31(A)
- DC Must be rated 600 VDC.
- Where fuses are installed, verify they are rated 600 VDC and are of the same amperage as specified on the approved drawings.
- Label fuse size inside DC disconnects if different than the disconnect ampacity.
- Array conductors must be connected to the line side input terminals at the top of the main DC disconnect and conductors to inverter input shall be connected to the load side output terminals (bottom) of DC disconnect.
- The equipment grounding lug shall be as specified by the manufacturer. Verify the lug matches the part number as specified on the inside of the door.
- Remove any insulating finish, such as paint, under the equipment grounding lug prior to installation. CEC 250.12
- Verify grounding lugs are located where specified by the manufacturer.
- Disconnects shall be installed so that the top of the operating handle, at its highest position, is not more than 6'- 7' above the floor or working platform and shall be located in a readily accessible location. CEC 404.8(A)(1)
- *PV Source & Output Circuits and Inverter Circuits: must be labeled at all termination, connections and splice points. CEC 690.4(B)(2)
- The grounded conductors are not switched and must marked be white or gray. (White negative conductors for negatively grounded systems and a white positive conductor for positively grounded systems.)

AC DISCONNECT

- Verify utility ac disconnect is located within sight and within 10 feet of main electrical service. AC disconnect shall be readily accessible with visible-blades, and lockable. Per CPAU
- The line side (top) terminals circuits from the utility, load side (bottom) terminals circuits from inverter.
- Disconnects shall be installed so that the top of the operating handle, at its highest position, is not more than 6'- 7' above the floor or working platform and shall be located in a readily accessible location. CEC 404.8(A)(1)

INVERTER LOCATION

*The ac and DC conductors shall be **grouped and identified** at all terminations, connections and splices by means of separate color coding, tape, or tagging. CEC 690.4(B)(4)

*Arc-Fault Circuit Protection: Photovoltaic systems (80 volts or greater) must be protected by an arc-fault device. CEC 690.11

- AC and DC disconnects shall be located at inverter. CEC 690.14 (a)-(c)
- Verify clear plastic barrier is returned to its original position separating the AC/DC wiring from the communication wires.
- Verify GEC and EGC are installed at the terminals as marked/specified by the manufacturer.
- ***Verify grounding electrode system.** The grounding electrode system should include one of the following: 1) GEC from inverter to a separate ground rod then bonded to existing AC grounding electrode. 2) GEC from inverter to the AC grounding electrode. 3) GEC combined with the EGC from the inverter to the grounding busbar in the associated AC equipment.
- **Supports:** RMC shall be securely fastened in place at least every 10' and within 3' of each outlet box, junction box, device box, cabinet, conduit body or other termination. 344.30 (A)
- **Negatively grounded systems:** The negative conductor must be white. The positive conductor may be any color other than green or white.
- Positively grounded systems: The positive conductor must be white. The negative conductor may be any color

Photovoltaic Inspection Rev. 2/28/2023

other than green or white.

- *Circuit Routing: ALL PV source and PV output conductors shall be routed along building structural framing members. CEC 690.4(F)
- *Beneath Roofs: Wiring methods must be 10" below the roof surface except where covered by the array. CEC 690.31(E)(1)

STRUCTURAL ATTACHMENT

- Verify attachment method is per the approved plans.
- The lag screw must have a minimum 2 $\frac{1}{2}$ embedment into rafter.
- Verify framing and load bearings wall are per plans.
- Composition roofing/shingles Use a sealant under the shingles to adhere the shingles to the flashing.
- Verify equipment and conduit locations to address any issues.

ROOF TOP INSPECTION

- **Module classification:** All roof top modules must have the same fire rating as the roof system. CRC R908.1.3, R902.4 & CBC 1505.1
- The equipment grounding conductor (EGC) must be routed with the PV array circuit conductors within the same raceway. 690.43(D)
- PV source circuit conductors and PV output circuit conductors shall be protected from physical damage when installed outside of the array. (RMC) **Rigid Metal Conduit.**
- Connectors require the use of a tool to open. CEC 690.33(C)
- Connectors shall also be marked "Do Not Disconnect Under Load" or Not for Current Interrupting." CEC 690.33(C)(2)
- Connectors, used as disconnecting means, shall be tested and listed as load break with the specific micro/mini inverter installed. CEC 690.17 > 690.33
- All equipment on the roof requiring servicing shall meet the required clearances of CEC 110.26.
- Verify roof penetrations are flashed and counter flashed.
- Modules shall be of the same manufacturer and per plan.
- Verify grounding lugs, at the module frames, are installed per the module manufacturer's installation instructions.
- The grounding method must be located at the ground to earth symbol on the module frame.
- Where three or more strings are being combined, combiner box shall be listed and factory assembled.
- Electrical equipment located in the attic shall be accessible.
- Exposed pressure treated wood is not allowed.

UNGROUNDED SYSTEMS

The source circuit conductors cannot be white. These conductors will be black and red and identified as PV Wire. CEC 200.6 CEC 690.35 (D)

Labels shall be phenolic where exposed to sunlight. Labels required on conduit shall be permanent, weather resistant and suitable for the environment. Labels shall be red background w/white lettering. The following labels must be provided:

Article	Location of Label	Verbiage	
690.5(c)	Utility-interactive inverter & battery enclosure	"WARNING: ELECTRIC SHOCK HAZARD IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED"	
690.35(F)	All enclosures with ungrounded circuits or devices which are energized and may be exposed during service	"WARNING: ELCTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED."	
690.53	On the DC disconnects	Operating current Operating voltage Maximum system voltage Short circuit current	
690.54	At interactive points of interconnection, usually the main service	RATED AC OUTPUT CURRENTAMPS NORMAL OPERATING AC VOLTAGEVOLTS	
690.56(B), 690.14(D)(4), 705.10	At the electrical service and at the photovoltaic inverter if not located at the same location	A directory providing the location of the service disconnecting means and the photovoltaic system disconnecting means	
690.4 (D), 705.10	MULTIPLE INVERTERS: Each DC and AC PV system disconnecting means and at the main service	Provide a directory showing the location of all AC and DC disconnects.	
690.17	DC disconnects	"WARNING! ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS. TERMAINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION"	
705.12(2)(D)	Inverter output OCPD	WARNING: INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE"	
690.31(G)(3)(4) CFC 605.11.1.2	On conduit, raceways, enclosures, mark every 10', within 10" of turns and penetrations at roof/ceiling assemblies, walls or barriers	"WARNING: PHOTOVOLTAIC POWER SOURCE"	
	On the inverter where PV systems are positively grounded	POSITIVE GROUNDED SYSTEM	
SCE	At the main electrical service when a supply side tap is used	"CAUTION! SUPPLY SIDE TAP. OPEN AND LOCK AC PV DISCONNECT BEFORE REMOVING METER"	
690.55	Battery enclosure	MAXIMUM OPERATING VOLTAGE EQUALIZATION VOLTAGE POLARITY OF GROUNDED CONDUCTORS	
	Main electric service or load center	"MAXIMUM MAIN BREAKER SIZE:AMPS"	



City of Torrance Community Development Department, Building and Safety Division Building Permit Application 3031 Torrance Blvd., Torrance CA 90503 (310) 618-5910

Property/					
Job Address:					
Person Preparing		Date:	Date:		
Inis Form: Property Owner:		Owner P	oone:		
		Owner i	Owner Phone.		
Owner's Address:					
Business /		Phone ·	Phone ·		
Tenant Name:		T Hono .			
Architect /		Phone:	Phone:		
Engineer: Architect /					
Engineer Address:					
Contractor:	Contractor	Class	Bus. Lic:		
(As shown on License)	License #:				
Business Address:			Phone:		
PROJECT INFORMATION					
Project Valuation (include all remodel areas) \$		Size in Squar	Size in Square Feet		
No. of Buildings Now on Lot		No. of Stories	No. of Stories		
Uses of Existing Buildings		Lot Area	Lot Area		
Description of Work					
•					
	FTION				
	MBING	MECHANICA	L		
The projects General Contractor or Owner Builder	shall require all sub-c	ontractors to have	a current Torrance Business I	icense	
The Constraint Contractor or Owner Duilder shall be	reanonable for full lies		a current romance Dusiness L		
The General Contractor or Owner Builder shall be	responsible for full lice	ense lees for any u	micensed sub-contractor.		
All contractors and sub-contractors must have a cit	ity business license for	the dates during v	which they worked on the proje	ct.	
I have mad and understand the above, and	have received the (S	wh Contractor?a	List? form I further under	tond	
	have received the S	Sub-Contractor s	List Ionii. I further unders		
that this list must be submitted to the Busine	ess License Section	fifteen (15) days	prior to final inspection.		
\Box I certify that no sub-contractors will be employed during the course of this project.					
signature		title	date		
<u> </u>				<u>1</u>	

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Any person applying for a non-residential building permit must complete the following checklist. If you have any questions about completing this *non-residential* checklist, please call 1-800-288-7664 for assistance.

(COMMERCIAL ONLY) AIR QI	JALITY PERMIT CH	ECKLIST			
1 Will the facility have any of the following equipment?		2 Will any of the following operations be performed?			
	Y N		Y N		
Charbroiler, dry cleaning machine, spray booth		Application of paints or adhesivese			
Printing press (screen / lithograph / flexographic)		Etching, plating, casting, or melting of metals			
Internal combustion engine (> 50 hp - excluding motor vehicles)		Molding, extruding, or curing of plastics			
Boiler/combustion equipment (> 2 million BTU/hr max input)		Mixing and blending of liquids and/or powders			
Abrasive blasting cabinet / room		Storage of acids, solvents, organic liquids, or fuels			
Baghouse / cartridge-type dust filter / scrubber		Production of fumes, dust, smoke, or strong odors			
Motor fuel storage and dispensing equipment					
Does this project involve the use or emission of chemicals lis hazardous materials per Section 65850-2 of the California G Code?	overnment	Does this project require a release from AQMD per the AQMD checklist?			
Signature Person preparing this form		date			
If you marked "No" in ALL the hoves an air quality permit is NOT needed at this time. This checklist is your written release					
If you marked "Ves" in ANV of the boxes, you must	contact: South Co	ast Air Quality Management District (AQMD)			
1 you marked Tes in ANT of the boxes, you must contact. Source states and quality management bistitet (Aging)					
21003 E. Copiey Drive, Diamonu Dai, CA 91703-4102 (909) 390-3029 (000) 200-7004 FAX: (909) 390-2401					



CITY OF TORRANCE COMMUNITY DEVELOPMENT DEPARTMENT BUILDING & SAFETY DIVISION CHECKLIST FOR SOLAR PANEL INSTALLATIONS

REQUIREMENTS FOR RESIDENCIAL PERMIT SUBMITTAL:

Before approval and issuance of permit(s) for solar panel/photovoltaic systems, the applicant shall submit: One (1) set of plans by email to <u>SolarPlanCheck@TorranceCA.Gov</u> which are drawn to scale, readable, and legible; A completed building permit application, BMP form, and this checklist

GENERAL

- 1. Title Sheet must include:
 - a. Project address
 - b. Owner's name, address, and phone number
 - c. Name, address, and phone number of firm making the plans
 - d. Scope of work statement including number and make of modules, and the power output (kW) of the system.
 - e. Sheet index with each sheet title and number
 - f. Legend for used symbols, abbreviations, and notations
 - g. Provide Note: All work to comply with the 2022 CBC, CMC, CEC, CPC, CRC, CFC, 2018 NDS, and latest amendments to TMC.
- 2. Provide a site plan with property lines, approximate location of all structures and panels, electrical equipment locations, and north arrow.
- 3. Provide completed BMP form with each plan set (see handout).

ENVIRONMENTAL

- 4. When equipment in garage; required interior space must be free and clear with no encroachments.
 - a. One car garage space: 10ft wide x 20ft deep.
 - b. Two car garage space: 18ft wide x 20ft deep.
- 5. Encroachments that are 4'6" above ground are allowed at the rear of garage as long as they do not project more than 3'0" into the garage space.
- 6. Provide the overall building height with the solar panels. (Overall height may not exceed zoning limits)

<u>PLANNING</u>

- 7. Projects located in the Hillside Overlay must follow the development standards (TMC 92.30)
 - a. Provide Note: "Per TMC 92.30.2 all roof and wall appurtenances, such as ducts and vents, all mechanical equipment, electrical boxes, meters, pipes, transformers, air conditioners and all other equipment on the roof or walls of any building shall be completely screened from public view with materials compatible with the main buildings on the subject property. Such equipment or screening material shall be constructed in such a manner that noises emanating from the roof or wall appurtenances shall not be audible beyond the property lines of the subject property."
- 8. All solar panel/photovoltaic systems not mounted flush to the roof shall provide documentation for tilt-mount (fixed or adjustable). **FIRE**
- **9.** Roof access points shall be located in areas that do not require the placement of ground ladders over opening such as windows or doors, and located at strong point of building construction in locations where the access point does not conflict with overhead obstructions such as tree limbs, wires, or signs. (**R324.6 CRC**).
- **10.** Fire Setbacks (Pitched Roofs)
 - a. Not fewer than two 3'0" pathways on separate roof planes, from lowest roof edge to ridge, shall be provided on all buildings (excepting detached garages). At least one pathway shall be located on the street or driveway side of the roof. Each roof plane with panels and modules installed must provide one 3'0" pathway from lowest roof edge to ridge on the same roof plane, adjacent roof plane, or straddling the same and adjacent roof planes (**CFC 1204.2.1.1**).
 - b. Panels and modules installed with roof hips and valleys shall be located no closer than 1'6" to a hip or a valley where panels and modules are to be placed on both sides of a hip or valley.
 - c. Provide 3'0" clearance from all ridges. Where solar panels/modules are placed on both sides of any ridge they shall be spaced a minimum of 5'0" on one side and 3'0" on the other side of the ridge (TMC 85.2.110).
- 11. Fire Setbacks (Flat and Alternative Roofs)
 - a. Panels and modules shall be located in a manner that provides a minimum 3ft clear perimeter around the edges of the roof. The panels and modules shall be installed in a way that smoke ventilation areas are created over common hallways and corridors to the approval (**TMC 85.2.110**).
- 12. Provide information on placards, labels, and their locations.
- **13.** Labels shall be phenolic where exposed to sunlight. Labels required on conduit shall be permanent, reflective, weather resistant, and suitable for the environment. Labels shall have all white letters capitalized with a minimum height of 3/8" on a red background.

ELECTRICAL

- 14. Provide an electrical line diagram: panel layout, panel power source short circuit current rating, conductor size, type, locations and length of runs, wiring methods, grounding points, inverter location, disconnect locations, battery locations (if applicable), and point of connection to existing electrical system. Include the existing service size and number of meters.
- **15.** Specify if any runs are being trenched. If they are being trenched, provide information on the location and dimensions of the trench.
- 16. Provide a PV system disconnecting means. PV system disconnecting means shall be readily accessible outside the building, within sight of equipment, and disconnect the PV system from all wiring systems including power systems, energy storage systems, and utilization equipment and its associated premises wiring (CEC 690.13; CEC 690.15).
- 17. Specify the locations of all equipment (i.e. west wall). Indicate any interior locations.
- **18.** Provide manufacturer's specifications on all components including but not limited to inverters and panels. Include the make, model, listing, size, weight, etc.
- **19.** Provide residential load calculations for all existing MSP $\leq 100A$ and all de-rated breakers.
- 20. PV conductors shall be protected from physical damage when installed outside the array. (RMC) Rigid Metal Conduit (TMC 82.2.5).

ENERGY STORAGE SYSTEMS (ESS)

- 21. Provide an elevation view of the ESS equipment and provide note: "ESS shall be located not less than 3 feet (914mm) from doors, windows, and other openings directly entering the dwelling unit. (CRC 327.4(3))"
- 22. ESS shall not be installed inside any attached structure to a dwelling unit, or within enclosed utility closets, basements, storage or utility spaces within dwelling units (TMC 85.2.110). ESS shall be installed within detached garages and detached accessory structures not associated with dwelling units, and outdoors or on the exterior side of the exterior walls located not less than 3 feet (914mm) from doors and windows directly entering the unit.
- **23.** Individual ESS shall have a maximum rating of 20kWh. The aggregate rating shall not exceed 80kWh. ESS installations exceeding the permitted individual or aggregate ratings shall be installed in accordance with Sections 1207.1 through 1207.9 of the California Fire Code, and be routed to the Fire division for their approval (**TMC 85.2.110**).
- 24. Provide an ESS disconnecting means. ESS disconnecting means shall be readily accessible outside the building, within sight of equipment, and disconnect the ESS from all wiring systems including power systems, photovoltaic systems, and utilization equipment and its associated premises wiring (CEC 706.15). Include signage compliant with 706.15(C).
- 25. ESS shall be provided with impact protection when installed in a location subject to vehicle damage (CFC 1207.11.7)

STRUCTURAL

- **26.** Specify roofing types.
- 27. Provide roof plan showing roof slope, rafter size, spacing, span and direction of existing framing.
- 28. Indicate the weight (in psf) for completely installed system. If the system weight exceeds 5 psf, provide seismic calculations (building & anchorage).
- **29.** Indicate the pitch of the solar panels.
- 30. Indicate fasteners type, diameter, and embedment depth (i.e., 5/16" lag screws with 21/2" min. embed).
- 31. Indicate max fastener spacing.
- **32.** If spans exceed allowable amounts in table 1, provide an analysis showing that the existing framing is not overstressed by the panel mounts (wind analysis). If required, provide strengthening details and include improvements in the description of work.

<u>Table 1:</u>

Allowable Roof Rafter Spans

Roof Rafters		Allowable Span		
Size	Spacing	Comp. Shingle Roofing	Clay or Conc. Tile Roofing	
2v/	16"	9'-10"	8'-6"	
274	24"	8'-0"	6'-11"	
2x6	16"	14'-4"	12'-5"	
	24"	11'-9"	10'-2"	
2v8	16"	18'-2"	15'-9"	
270	24"	14'-10"	12'-10"	

Applicable only if <u>all</u> following conditions are met:

- 1. Panels are < 30' above grade and not in the hillside
- 2. Support spacing does not exceed 70" (anchors shall be staggered).
- 3. Panel slope matches roof slope and is less than 6:12
- 4. Not within 600 feet of coastline

CITY OF TORRANCE COMMUNITY DEVELOPMENT DEPARTMENT

BEST MANAGEMENT PRACTICES FOR ALL FOR CONSTRUCTION ACTIVITIES*

Project Address: _____ Case No. _____

The Following are Minimum Water Quality Protection Requirements for All Development **Construction Projects:**

- Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses or wind.
- Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
- Fuels, oils, solvents and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
- Non-stormwater runoff from equipment and vehicle washing and any other activity shall be contained at the project site.
- Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
- Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
- Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
- Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit • erosion by wind and water.
- Other:

As the project owner or authorized agent of the owner, I have read and understand the requirements listed above, necessary to control storm water pollution from sediments, erosion, and construction materials, and I certify that I will comply with these requirements.

Print Name

(Owner or authorized agent of the owner)

Signature ____

Date

(Owner or authorized agent of the owner)

*The above Best Management Practices are detailed in the California Storm Water Best Management Practices Handbook, January 2003. www.cabmphandbooks.com