



County Administration South
601 North Ross Street
Santa Ana, CA 92701

P.O. Box 4048
Santa Ana, CA 92702

(714) 667-8800

info@pw.oc.gov

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This checklist is for Lighting Plan prepared for projects located within the Ranch Plan Planned Community under a Reimbursement Agreement (RA). The application package will be electronically reviewed and must be submitted through the Land Management System (LMS): <https://myoceservices.ocgov.com>

Land Development – Lighting Plan Submittal Checklist

1) Permit Application:

The application must identify all related permits and/or approvals, including concurrent applications and permits. The application must also be accompanied by a designated Financially Responsible Party (FRP) and an active trust account. The FRP must match the owner or entity of the trust account indicated on the application.

Provide a written narrative that clearly outlines the project proposal and entire scope of work consistent with the submitted plans. Describe the existing site conditions and uses, and the compliance standards under which the lighting plan is prepared, including relevant industrial standards and/or conditions of approval related to the project, if applicable.

The review period begins once the required fee is paid and the application is deemed complete. The applicant will be notified about the status when the review begins.

2) Authorization Forms:

- Agent Authorization Letter – Provide electronic copy.
- Concurrent Processing Letter (if applicable) – Provide electronic copy.

3) Plans:

1. Photometric Site Plan (See attached example)

- Indicate the interval (e.g., 5 feet or 10 feet) used for lighting intensity in footcandles (fc)
- Extend the lighting distribution to the site boundaries and 10 feet beyond
- Gray out background elements, such as streets, buildings and trees
- Use a light fixture symbol to indicate lighting fixtures
- Use — — — — to indicate property lines

2. Fixture Schedule and Specifications (See attached example)

- Include symbols, types, and manufacturers for each type of fixture
- Provide wattage and lumen output
- Provide beam angle information
- Provide mounting heights and support details
- Provide fixture specifications and details



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3. Lighting Calculations

Separate calculations must be provided for each calculation zone and must include the following information:

- Maximum footcandles (fc)
- Minimum footcandles (fc)
- Average footcandles (fc)
- Ratio of maximum to minimum
- Ratio of average to minimum

4. Photo Simulations

Photo simulations may be required for exterior lighting on buildings adjacent to residential neighborhoods. Each simulation must demonstrate that all lighting fixtures are properly designed to prevent glare and spillover onto nearby residential properties.

Common factors contributing to lighting glare include:

- High luminance
- Inadequate shielding
- Excessive number of fixtures
- Reflective building surfaces

5. Title 24 compliance sheets and circuit schedule

6. Single line diagram and panel schedule

7. Structural

- Structural plans for light pole foundation
- Structural calculations.

8. Geotechnical Report

- Geotechnical recommendations for pole foundation design

4) **Deposits and Fees:**

An initial deposit is required for submitting the application. The deposit needs to be processed through myOC eServices <https://myoceservices.ocgov.com>. Please refer to the County's latest Fee Schedule for the initial deposit amount.

5) **Additional Review and Building Permit Required:**

Building and Safety reviews the project to ensure compliance with the Electrical and Building Codes, and Title 24 regulations.

Supporting structures, such as streetlight poles, require a building permit.



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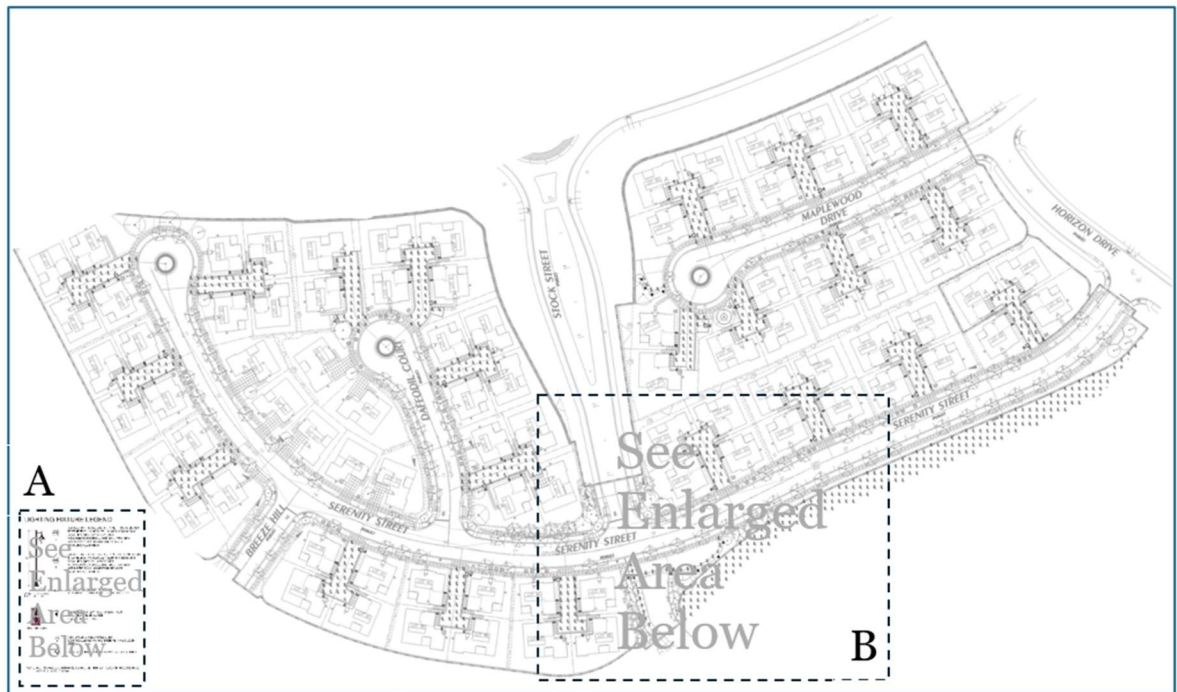
6) **Design Compliance:**

1. All exterior lighting must be designed and located so that all direct rays are confined to the property.

2. Lighting shall be shielded or directed away from RMV Open Space habitat areas through the use of low-sodium or similar intensity lights, light shields, native shrubs, berms or other shielding methods. In addition, parking lots and lighting within PA 4 and along the easterly development edge of PA3 shall be designed and constructed in a manner that minimizes the diffusion of refractive light into surrounding neighborhoods and/or into the night sky.

(Applicability: PA4, PA8 and the easterly side of PA3. Adjacent to Caspers Wilderness Park. and along the easterly development edge of PA3 adjacent to Caspers Wilderness Park.)

7) **Example Photometric Site Plan:**





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A A legend must be provided for lighting fixture dimensions and style.

LIGHTING FIXTURE LEGEND

		60W LED 14FT POLE LIGHT - TYPE III DISTRIBUTION STERNBERG# 1A-1521LED-12L30T3-MDL018-SV1-6236UHPM(MOD)/9114P5/PCC/DB MOD: REMOVE SCROLL AND BALL FRM ARM. WITH STEP DIMMING MOTION SENSOR DARK BRONZE FINISH
		60W LED 14FT POLE LIGHT - TYPE IV DISTRIBUTION STERNBERG# 1A-1521LED-12L30T4-MDL018-SV1-6236UHPM(MOD)/9114P5/PCC/DB MOD: REMOVE SCROLL AND BALL FRM ARM. WITH STEP DIMMING MOTION SENSOR DARK BRONZE FINISH
W/OUT BACK SHIELD B= 1 U=0 G=1		HOUSE SIDE SHIELD PER PLAN NOT ALL POLE LIGHTS WILL HAVE A SHIELD
		LED BOLLARD - 24" TALL - 6" DIA. - 18W KIM# CB24-15L-3K-UV-DB DARK BRONZE FINISH
B= 0 U=1 G=1		12W EXTERIOR LED WALL LIGHT CONTROLLED BY ASTRONOMICAL TIME CLOCK 3000°K
		SAME AS ABOVE, BUT NON-TYPICAL LOCATIONS

NOTE: ALL INSTALLED LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH ES TABLE 150.0-A.

