



Architectural Review Board

Staff Report

Agenda Date: May 16, 2013

To: Architectural Review Board

From: Amy French
Chief Planning Official

Department: Planning and
Community Environment

Subject: LED Fixture Modification Associated with
Architectural Review Approval [10PLN-00196]

RECOMMENDATION

Staff recommends that the Architectural Review Board (ARB) subcommittee review the attached description and view the fixture in the Council Chambers on May 16, 2013 and provide comments to the Utilities Engineering staff prior to staff approval. The revised fixture would replace 2300 (approximately) high pressure sodium fixtures in Palo Alto in both residential and commercial areas.

BACKGROUND

On June 17, 2010, the ARB subcommittee reviewed the proposal by Utilities Engineering staff to replace high pressure sodium streetlight fixtures on a limited basis (Agenda attached), helping the applicant to select the shape and style of the fixtures. On June 22, 2010, an approval of the Architectural Review application was issued.

DISCUSSION

The revised fixture style has many economic and other important benefits, outlined by Utilities Engineering staff in the attached letter. The selected fixture is smaller and thus less obtrusive. The fixture can be customized as needed; for example, the fixtures can be easily adjusted with house side shields to divert light away from residential homes (also known as protection against light trespass). And the fixture can be quickly and safely fixed with the 'power door', not previously available in street lighting. Finally, the new LEDs are not that bright blue color seen in the last generation of LED fixtures.

ATTACHMENT

1. Letter from Utilities Engineering, 2. June 17, 2010 Agenda, 3. June 22, 2010 Approval letter

COURTESY COPIES

Gopal Jagganath

Prepared by: Amy French, AICP, Chief Planning Official

May 7, 2013

Hi Amy,

Thanks for meeting with us and Cooper's representative on Thursday, May 2, 2013 for reviewing the energy efficient light emitting diode (LED) street lighting fixture that we plan to procure for our next phase of street lighting conversion project. Approximately, 2300 nos. of existing high pressure sodium fixtures (HPS) shall be replaced with new LED fixtures in the residential and commercial areas to create neighborhood identity, enhance business activity and achieve a key sustainability goal. Cooper is the lowest bidder and they have submitted their bid through Express Energy who is an established contractor for performing high volume of electrical installation work.

Cooper is one of our approved manufacturers for supplying LED street lighting fixtures and they have also participated in our pilot program that we conducted 3-4 years back for selecting the right LED street lighting fixture. LED street lighting fixtures that were installed during the pilot program were cobra head style.

LED lighting technology has been changing very rapidly and matured during the recent years. Cooper has adapted new trends and made significant improvements in their fixture's design. LED lighting fixtures that are available now in the market are relatively more efficient and less expensive compared to the ones we purchased 2-3 years back. The new LED street lighting fixture is in a rectangular shape and offers the following distinct advantages:

1. Lower Price below \$300.00 for 70W equivalent HPS and approximately \$600.00 for 250W equivalent HPS.
2. 10kv surge protection- more than doubling the protection over the current fixtures resulting in less replacement
3. Small fixture housing – allowing fixture to be less obtrusive and blend more easily
4. Rotatable Optics- flexibility with moving the light pattern can help eliminate less light trespass or improved task lumens
5. Custom optic capabilities available- providing solutions for any optic complication
6. Improved Optics – that will light intersections more efficiently
7. Power Door-allowing quick installation, reduced maintenance costs, and safe replacement
8. House side shields- allowing further protection against light trespass
9. Fixture weighs less than 15lbs which makes it easy for installation from operational perspectives
10. Warranty 10 years with 90% of initial lumen output at 100,000 hours

Cooper's LED street lighting fixtures' model numbers XNV-XX-01-D-U-2-10K-4-700-AP, NVN-XX-03-D-U-SL2-10K-4-700-AP, XNV-XX-01-D-8-2-10K-4-700-AP & NVN-XX-03-D-8-SL2-10K-4-700-AP comply with our technical specifications. All these models are in the same

style but with different wattages and voltages for our specific applications. Cooper's fixture delivers state-of-the-art optical control, low maintenance cost; superior performance and configurability provide uniform glare-free, energy-efficient light for streets.

You have been kind enough to provide your feedback on Cooper's new LED street lighting fixture. As discussed in our meeting, I would like you to run the sample fixture's photograph that you have taken through the ARB subcommittee and inform us if Cooper's new LED fixture is acceptable to them.

Please feel free to let me know, if you need Cooper's sample LED street lighting fixture to be presented before the subcommittee on May 16, 2013 or need any additional information.

Once again, thanks for your time and I look forward hearing from you.

Sincerely,

Gopal
Ext.4516



ARCHITECTURAL REVIEW BOARD AGENDA

MEETINGS ARE CABLECAST LIVE ON GOVERNMENT ACCESS CHANNEL 26

Thursday June 17, 2010
REGULAR MEETING - 8:30 AM
City Council Chambers, Civic Center, 1st Floor
250 Hamilton Avenue
Palo Alto, CA 94301

ROLL CALL:

Board members:

Alexander Lew (Chair)
Clare Malone Prichard (Vice Chair)
Grace Lee
Judith Wasserman (absent)
Heather Young

Staff Liaison:

Russ Reich, Senior Planner

Staff:

Amy French, Planning Manager
Steven Turner, Planning Manager
Clare Campbell, Planner

PROCEDURES FOR PUBLIC HEARINGS

Please be advised the normal order of public hearings of agenda items is as follows:

- *Announce agenda item*
- *Open public hearing*
- *Staff recommendation*
- *Applicant presentation – Ten (10) minutes limitation or at the discretion of the Board.*
- *Public comment – Five (5) minutes limitation per speaker or limitation to three (3) minutes depending on large number of speakers per item.*
- *Architectural Review Board questions of the applicant/staff, and comments*
- *Applicant closing comments - Three (3) minutes*
- *Close public hearing*
- *Motions/recommendations by the Board*
- *Final vote*

ORAL COMMUNICATIONS. Members of the public may speak to any item not on the agenda with a limitation of three (3) minutes per speaker. Those who desire to speak must complete a speaker request card available from the secretary of the Board. The Architectural Review Board reserves the right to limit the oral communications period to 15 minutes.

APPROVAL OF MINUTES.

May 20, 2010 and June 3, 2010

AGENDA CHANGES, ADDITIONS AND DELETIONS. The agenda may have additional items added to it up until 72 hours prior to meeting time.

NEW BUSINESS:

Public Hearings (Major)

Stanford University Medical Center Facilities Renewal and Replacement Project- Request by Stanford University Medical Center on behalf of Stanford University for Preliminary Review of the new Stanford Hospital building. Environmental Assessment: An environmental impact report has been prepared. Zone District: Medical Office Research (MOR).

San Antonio Median Improvements Phase II [10PLN-00177]: Request by City of Palo Alto Public Works Engineering for Architectural Review for landscape upgrades along the sidewalks and street medians on San Antonio Avenue, between Middlefield Road and Highway 101. Environmental Assessment: An Initial Study was completed and a Mitigated Negative Declaration was adopted on February 20, 2007 in accordance with the CEQA requirements.

Study Session:

San Francisquito Creek Joint Powers Authority (JPA) Initial Flood Protection Project: Request by City of Palo Alto Public Works Engineering for Study Session review of preliminary plans for 1% (100-year) flood protection improvements, riparian corridor enhancements, and recreational opportunities along San Francisquito Creek between Highway 101 and San Francisco Bay.

BOARD MEMBER BUSINESS AND ANNOUNCEMENTS.

REPORTS FROM OFFICIALS.

SUBCOMMITTEE:

Replacement of City Streetlight fixtures with LED and Induction light fixtures [10PLN-00196]: Replacement by City of Palo Alto Utilities Engineering for Architectural Review of LED street light fixtures proposed to replace the existing high pressure sodium streetlight fixtures on a limited basis (approximately 10% of total fixtures Citywide).

STAFF ARCHITECTURAL REVIEW:

Project Description: One non-illuminated wall sign

Address: 335 Bryant Street

Approval Date: June 4, 2010

Request for hearing deadline: June 18, 2010

Project Description: One non-illuminated wall sign

Address: 1891 Page Mill Road

Approval Date: June 4, 2010

Request for hearing deadline: June 18, 2010

ADA. The City of Palo Alto does not discriminate against individuals with disabilities. To request accommodations to access City facilities, services or programs, to participate at public meetings, or to learn more about the City's compliance with the Americans with Disabilities Act of 1990 (ADA), please contact the City's ADA Coordinator at 650.329.2550 (voice) or by e-mailing ada@cityofpaloalto.org.

Posting of agenda. This agenda is posted in accordance with government code section 54954.2(a) or section 54956. Recordings. An audiotape of the proceedings may be obtained/reviewed by contacting the Planning Division at (650) 329-2440. A videotape of the proceedings can be obtained/reviewed by contacting the City Clerk's Office at (650) 329-2571.

Materials related to an item on this agenda submitted to the **Architectural Review Board** after distribution of the agenda packet are available for public inspection in the **Planning and Community Environment Department at 250 Hamilton Avenue, 5th floor, Palo Alto, CA. 94301** during normal business hours.

June 22, 2010

Patrick Valath
Utilities Department, Electrical Engineering Division Manager
1007 Elwell Court
Palo Alto, CA 94303

Subject: Replacement of City Streetlight Fixtures with LED light fixtures [10PLN-00196]

Dear Mr. Valath:

On June 22, 2010, the Architectural Review application for the project referenced below was conditionally approved by the Planning Manager on behalf of the Director of Planning and Community Environment, as recommended by the Architectural Review Board (ARB) subcommittee.

PROJECT DESCRIPTION:

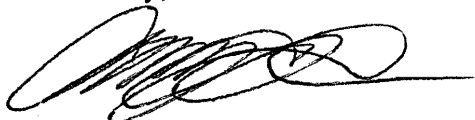
Request by City of Palo Alto Utilities Electrical Engineering for Architectural Review of Light Emitting Diode (LED) street light fixtures proposed to replace the existing high pressure sodium streetlight fixtures on a limited basis (approximately 10% of total fixtures Citywide). The ARB subcommittee assisted City staff in the selection of the shape and style of lighting fixtures consistent with prior ARB approvals of lighting in the right of way. The ARB-preferred fixture is the GE fixtures displayed at Ramona Street and Forest Avenue (CAT#20ERMCOA160A2GRAY, 6000 degree Kelvin, equivalent to existing 150W HPS lighting fixtures) and at Colorado Avenue between Louis and Greer Roads (CAT # 10ERMCOA460A2GRAY, 6000 Degree Kelvin, equivalent to existing 100W HPS lighting fixture.)

The approval is based upon the finding that the proposed improvements, the fixture replacements, comply with the Standards for Review (PAMC Chapter 18.76.020(d)) and design guidelines adopted by the Architectural Review Board.

This Director's decision shall become final fourteen calendar (14) days following the postmark date of this letter, unless a request for hearing is filed pursuant to PAMC Chapter 18.78.

Should you have any questions regarding this action, please do not hesitate to call me at (650) 329-2336.

Sincerely,



Amy French, AICP
Manager of Current Planning