



## CITY COUNCIL STAFF REPORT

DATE: NOVEMBER 6, 2013 UNFINISHED BUSINESS  
SUBJECT: PALM CANYON DR. ELECTRICAL/PALM TREE LIGHTING  
FROM: David H. Ready, City Manager  
BY: Special Projects Coordinator

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### SUMMARY

The proposed actions would result in provision of funding to rebuild the electrical backbone in Palm Canyon Drive and would result in the selection of an option concerning lighting of palm trees on Palm Canyon Drive.

### RECOMMENDATION:

1. Approve the type of lighting to be installed/re-lamped on the Palm Canyon Drive palm trees between Tramway Road and the bend at East Palm Canyon Drive.
2. Authorize the City Manager to transfer \$800,000 of unallocated Measure "J" funds held in reserve for Palm Canyon Drive lighting to the project line item and notify the Measure "J" Commission.

### STAFF ANALYSIS:

One of the longest standing deferred maintenance issues that the City has is that of the electrical backbone system along Palm Canyon Drive, particularly between Vista Chino and Ramon Rd. The system is currently being held together with the equivalent of "baling wire and bubble gum," is broken in locations and is underpowered to serve the current level of electrical demand. The City has selected MRC Engineering to design a rebuild of the backbone between Vista Chino and Ramon Rd. and will soon have the firm under contract for that work. It is anticipated that the design will be completed in ample time to receive bids so that construction can occur this coming summer.

The City currently has Chevron Energy Solutions under contract to re-lamp all of the Palm Canyon Drive palm trees from Tramway Road to the bend at E. Palm Canyon Drive with LED lighting. The project also includes the replacement of numerous manual time clocks with computer controller lighting timers. The City has also looked at a

colored LED lighting system for the palm trees. A comparison of the two systems is as follows:

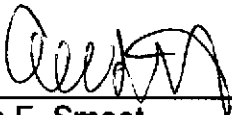
	<u>Chevron</u>	<u>Colored Lighting</u>
Cost Per City Block	\$25,000	\$300,000
Requires Backbone to Be Upgraded	NO	YES
Backbone Power Service Upsizing	NO	YES
Electrical Use Compared to Current	70% less	Slightly More
Maintenance Cost	50% less	Unknown
Installation Can Begin	Nov. 15, 2013	Nov. 2014

Whereas the colored lighting system could certainly provide a change in the look of Palm Canyon Drive it would do so at a cost burden of about ten times more than the Chevron system, would have to wait until the electrical backbone is upgraded, would require greater electrical service sizing, would utilize at least as much energy as we currently do (Chevron would be 70% less), would require about the same level of maintenance as we currently carry out (Chevron would be a 50% reduction), and could not be installed until a year from now (Chevron could start next week).

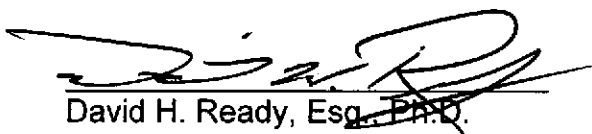
FISCAL IMPACT:

The upgrade of the electrical backbone on Palm Canyon Drive from Vista Chino to Ramon Road is estimated to cost \$800,000 and it is recommended that funding for the work be provided from the \$1,550,000 that has been set aside in this year's Measure "J" allocation for Palm Canyon Drive lighting projects.

In selecting a lighting type to be utilized the cost of the Chevron Energy Solutions re-lamping project is already covered/appropriated in the larger bond issue that was sold last year; it has a total cost of \$400,000. If the colored lighting system were selected the cost is \$300,000 per block and would need to be allocated from some funding source, possibly Measure "J". To do a colored lighting program from Vista Chino to Ramon Rd. would be approximately \$2.4 million.



Allen F. Smoot  
Special Projects Coordinator



David H. Ready, Esq., Ph.D.  
City Manager