



Florida Department of
TRANSPORTATION

US 41 Lighting Project

**South of Pelican Colony Blvd to San Carlos Blvd
432755-1**

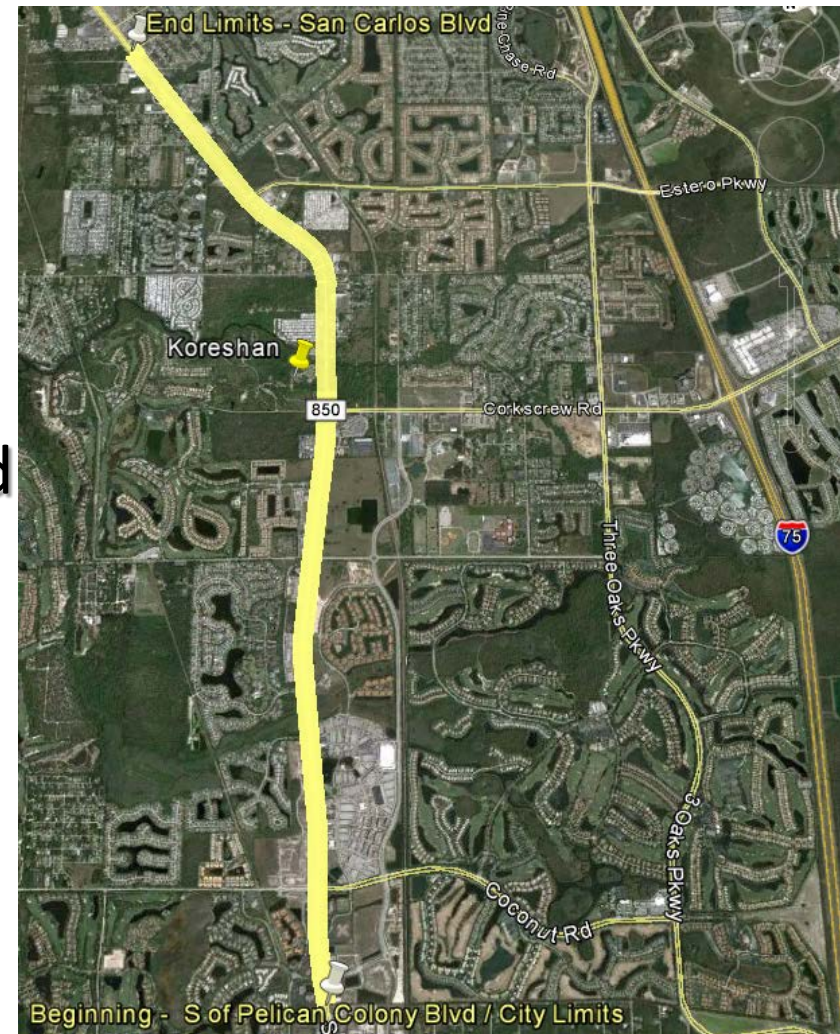
**Jeff Mednick
Consultant Project Management**

Project History

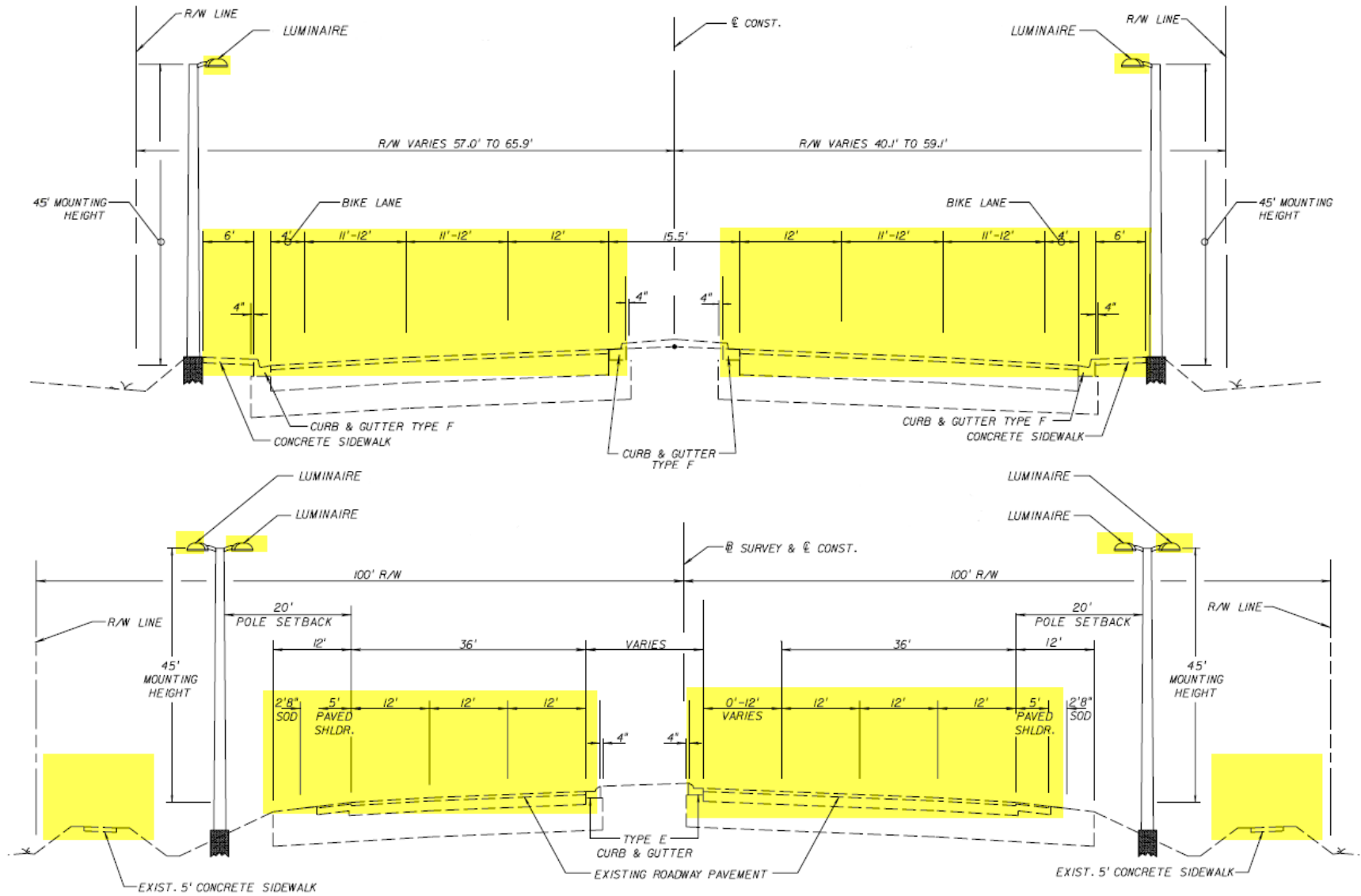
- Design-Build Lighting project from 2013-2014
 - Project postponed because of contractors' protest
- Design-Bid-Build started in July 2014
- Project split into two Phases February 2015
 - Estimates high, budget concerns
- Phases combined in September 2015
 - Estimates decreased slightly
 - Money added to project

Scope of Project

- Lighting of 6 lanes and sidewalks
- Southern limit: South of Pelican Colony Blvd (Village of Estero “City Limit”)
- Northern limit: San Carlos Blvd
- Work length: 5.235 miles
- Approximately 4.485 miles within Village of Estero
- Approximately 0.75 miles within Unincorporated Lee County (Northern limits)



Scope of Project



Budget & Schedule

- Construction Budget approximately \$4.1mil
 - Federal Safety Funds
- Design Start: July 2014
- Design Finish: Apr/May 2016
- Letting: May 2016
- Acquisition: TBD; Assuming May – Aug 2016
- Construction Start: TBD; Assuming Aug 2016
- Construction Finish: TBD; Assuming Feb 2017

Activity	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Design																														
Acquisition																														
Construction																														

End Const TBD

FDOT Coordination

- Florida Parks & Rec, ECCL, DEP, Lee County, FHWA, SHPO
 - Koreshan State Park Lighting Coordination (2012) Before Design
- Lee County During Design
 - 2014 & 2015 – Phone, email, & plan reviews
- Koreshan State Park
 - Jeff Mednick Meeting with new Park Manager (Rick): October 2015
 - Rick’s Review of 60% Plans 12/9/15; no comments or concerns
- Village of Estero
 - Carmen Monroy Emails with Peter Lombardi March 2015
 - Laura Lockwood Meeting with Peter Lombardi June 2015
 - Zac Burch Meetings/Emails February, May, July, September 2015
 - Maintenance Meeting with Peter Lombardi September 2015
 - Maintenance Meeting with Steve Sarkozy December 2015
- Utility Agencies

Commitments Made (2012)

1. Evaluate banner bracket hardware on the street light poles between South of Corkscrew to north of Broadway Ave.
 - Approved & will be added to maintenance agreement
2. Light poles will not be installed closer than 20 feet from the edge of the “New Store”.
 - Nearest pole will be at least 20 feet from building



Commitments Made (2012)

3. Evaluate the feasibility of installing light fixtures that would minimize the amount of nighttime light outside of the US 41 ROW within the limits of the Koreshan State Historic Park.
 - The LED fixtures specified come standard with an “up-shield” on them to minimize light spill-over. Any additional shielding is not feasible and would adversely affect the sidewalk lighting.
4. Evaluate the feasibility of installing Metal Halide bulbs within the area of Koreshan State Park.
 - Not feasible. Lee County and other maintaining agencies do not stock or use Metal Halide. Rick Argo, Park Manager of Koreshan State Historic Park has no objections to the use of LED lighting

LED Highway Lighting

- All FDOT Current/Future Projects will be LED
- Reduce energy costs by up to 60%
- Reduce maintenance costs by up to 50%
- Up to 25 year life
- Excellent color rendering and uniformity
- LED lights contain no toxic materials and are 100% recyclable.
- Costs expected to continue to decrease as market shifts to LED

LED Highway Lighting - Pictures



LED Highway Lighting - Pictures



LED Highway Lighting - Pictures



LED Highway Lighting - Pictures



Mongoose® LED

Prismatic glass optics provide permanence, uniformity, and glare control.

State-of-the-Art COB LED design with Lumen packages to replace 150 thru 400 watt HPS & 175 thru 1000 watt MH products (15,000 to 36,000 lum)

Multiple distributions available:

- 1) Forward Throw - Type IV
- 2) Area - Type V
- 3) Narrow
- 4) Medium
- 5) Wide

Contractor's Selection Process

- FDOT calls for technical specifications, not Brands, Makes, or Models
- Contractor selects brand/make/model based on cost, availability, and FDOT specification

Decorative Options

- 2012: ECCL requested decorative lights for Historic District but ceased pursuit after informed of capital costs & schedule

MEETING NOTES

Koreshan State Park Lighting Coordination Meeting

MINUTES FROM MEETING: 1

DATE/TIME HELD: December 7, 2012 9:00 am

LOCATION: Koreshan State Park 3800 Corkscrew Road Estero, FL 33928

ATTACHMENTS/HANDOUTS FROM THIS MEETING:

Sign In Sheet, Agenda, Project Location Map, Koreshan Unity Settlement Map, 2 Koreshan State Park Boundary Maps, Holophane Lighting Brochure, Holophane Lighting Spec Sheet, and Example Lighting Photos

Brian Blair gave an overview of the project. The FDOT proposes to install standard Mongoose lighting along both sides of US 41 from south of Coconut Road to San Carlos Boulevard. This lighting project will be separate from the current US 41 widening project and will be put out for competitive bid. The project will be constructed through a design/build contract with an advertisement in February 2013 and bid opening in August 2013. This project is currently Federally Funded and is necessary to improve safety along the corridor. Megan (FDOT) presented a standard mongoose light fixture used on similar facilities in Lee County.

The Estero Council of Community Leaders (ECCL) has contacted FDOT and requested that standard lighting be upgraded to antique lighting within the limits of the historic district. ECCL also indicated that they would like to extend the limits of the historic district to include US 41 from Corkscrew to Broadway. ECCL and FDOT met on November 5, 2012 to discuss the incorporation of the lighting. FDOT informed ECCL that the additional capital cost and long term maintenance costs would be the responsibility of ECCL. FDOT asked that ECCL prepare a sketch and cost estimate for the preferred lighting.

Approval of this project prior to the advertisement date is required from the State Historic Preservation Officer (SHPO) and FHWA. There is a 60 day review period for these agencies. The purpose of this meeting is to address any concerns relating to this project prior to contacting SHPO.

1. Don Eslick stated that ECCL is working on updating the Estero Comprehensive Plan and will not likely be finished incorporating all of the changes for another year or two. Because of the advanced schedule of the proposed lighting project ECCL will not be able to provide the department with an antique lighting preference or meet the financial obligations for upgrading from the standard lighting. He indicated that if the antique lighting was approved in the Estero Comprehensive Plan and a municipal services taxing unit (MSTU) was agreed upon with the local residents then the lighting can be upgraded at some future date.
2. FDEP and ECCL were supportive of the standard light pole presented. Dean Stoddart with FDEP proposed the installation of banner brackets on the standard light poles. He also inquired about the possibility of specifying a low tilt configuration and Metal Halide fixtures instead of high pressure sodium to alleviate night sky

Decorative Options – For Now

- Decorative HPS: Cancel current project, redesign with decorative HPS for future year funding
 - Not long-term cost feasible; HPS is phasing out
 - Limited options available for highway/sidewalk
 - Requires deposit of at least \$1,000 per pole before design (approximately 400 poles)
 - Estimated capital cost to Village: \$1.2 Million



Decorative Options – For the Future

- Decorative LED: Cancel current project, redesign with decorative LED option for future year if/when it becomes available on market.
 - Decorative LED not available for 6-Lane Highways
 - Requires deposit of at least \$1,000 per pole before design (approximately 400 poles)
 - Estimated capital cost to Village: \$2 Million

Decorative Options – For the Future

- Partial Decorative LED: Build current project as is and in the future replace standard LED fixtures/poles with Decorative LED fixtures/poles (when available) from Corkscrew to Broadway in Historic District (0.75 mi).
 - Removal of approx. 40 poles
 - Installation of 45 to 50 poles
 - Design/Construction Estimated at \$1,000,000



Bonita Springs lighting doesn't light sidewalks.
Capital Cost was \$500k in 2002/2003 for upgrade to decorative for 210 poles.



Moving Forward

- Continued Coordination with Utility Agencies
- Finalize design & send to Tallahassee (March)
- What FDOT needs from the Village:
 - Concurrence
 - Maintenance Agreement
 - January 6th Council Meeting (early)
 - January 20th Council Meeting (late)

Maintenance Agreement

- We will coordinate and be ready for January 6
- Template MA Provided
- Template Compensation Agreement Provided

Florida Statutes:
334.044
335.055

375-020-52
MAINTENANCE
OGC – 06/15
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EXHIBIT B

STATE HIGHWAY LIGHTING, MAINTENANCE AND COMPENSATION AGREEMENT

1.0 PURPOSE

This exhibit defines the method and limits of compensation to be made to the **Maintaining Agency** for the services described in this Agreement and Method by which payments will be made.

2.0 COMPENSATION

For the satisfactory completion of all services detailed in this Agreement, the Department will pay the **Maintaining Agency** the Total Lump Sum as indicated in Section 2 of the Agreement. The **Maintaining Agency** will receive one lump sum payment at the end of each fiscal year for satisfactory completion of service.

Total Lump Sum Amount for each Fiscal Year is calculated by taking all of the actual number of qualifying lights times 90% times the FY Unit Rate.

Example: $330 \text{ lights} \times 0.90 \times \$201.58 = \$59,869.26$

FY	12-13	\$201.58
	13-14	\$244.00
	14-15	\$251.32
	15-16	\$258.86

Beginning FY 14-15, the Unit Rate for each fiscal year will be 3% more than the Unit Rate from the previous fiscal year, unless otherwise specified in an amendment to this Agreement or changed through an update of this exhibit.



Florida Department of
TRANSPORTATION

Thank you!

Jeff Mednick
Consultant Project Management

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