



December 23, 2010

Dominic Orlando
City of Dania Beach
100 West Dania Beach Boulevard
Dania Beach, Florida 33004

Subject: Proposal for Lighting Review and Sea turtle-friendly Lighting Recommendations

Mr. Orlando:

Metric Engineering, Incorporated (Metric) is pleased to provide the following proposal to review the existing lighting at Dania Beach's public beach area and develop suggestions to replace and/or retrofit lights so that they are in general accordance with Florida Fish and Wildlife Conservation Commission (FWC) guidelines. Our understanding of this project is based on email correspondence from you on December 17 and 20, 2010 and on other continuing work with which we are currently involved within the beach area.

Background

The City wishes to join other Broward County municipalities in meeting FWC lighting guidelines. Most of Broward County's coastal municipalities have developed lighting ordinances to regulate light trespass onto adjacent beaches as a protective measure for sea turtle nesting. However, Dania Beach, unlike the Cities such as Hallandale Beach, Hollywood, Fort Lauderdale and others, does not have a commercial waterfront district with independent businesses and/or condominiums requiring regulation. The City of Dania Beach owns all of its waterfront lands, including its public beach, pier and associated facilities (parking lot, restaurants and marina). Therefore, the City Manager has issued a directive to review of the current lighting situation and recommendations to bring the beach area lighting into compliance with FWC guidelines.

Scope of Work

1. Review and analysis of beach lighting: Metric will conduct a field review of existing lights within the project area, including parking lot, access road and facility lights. Lights that are visible from the beach or have the potential to be visible from the beach will be included in the review. Based on preliminary reconnaissance, there are approximately 31 lights within the project area to be considered. The field review will include an assessment of the lights to ascertain the height, luminaire type and any other relevant characteristics and/or specifications needed to provide recommendations. Additionally, Metric will assess the existing electrical system. Based on current conditions and available technologies, Metric will develop recommendations for lighting replacements and/or retrofits, including associated costs, cost saving opportunities, and scheduling options.
2. Coordination: Metric will coordinate with the City, its tenants at the beach, the FWC, lighting manufacturers and Florida Power & Light (FPL) as part of its review of existing conditions and in developing recommendations. Additional coordination will occur regarding the upcoming marina redevelopment project to ensure that any recommendations proposed do not conflict with future plans.

M I A M I - W E S T P A L M B E A C H - O R L A N D O - T A M P A - J A C K S O N V I L L E - C H I P L E Y - P A N A M A C I T Y

Deliverables

1. Technical report: Metric will provide a technical report with an analysis of each light assessed within the project area, including a description of the existing light and recommendations for various alternatives to make each light sea turtle friendly. Recommendations may include retrofitting the light with a shield or other device, replacing part or all of the components of the light, or scheduling the light to turn off at certain times during sea turtle nesting season. The analysis of each light will include technical specifications and associated costs for each recommendation, including any required alterations or improvements to the electrical system or pole. Metric will also provide cost-saving recommendations, such as performing replacements and/or retrofits during scheduled maintenance events or tying lighting improvements to future projects, such as the marina redevelopment. Ideas for acquiring funding, such as grants, will be included in the technical report.
2. Coordination: Metric will provide the City with copies of meeting minutes as applicable and copies of correspondence concerning this project. This will include suggestions from the FWC, if any, and correspondence with FPL regarding coordination in retrofitting or replacing FPL lights at the beach.

Price

Metric Engineering proposes to perform the work included in the scope of this proposal for the lump-sum price of \$24,875.

Limitations

1. The sketches will provide all of the location and specification information that the City will need to develop lighting plans; however, the sketches will not be construction-ready plans.
2. Recommendations will be based on information and price quotes provided by lighting manufacturers and/or dealers during the report preparation. Metric Engineering cannot guarantee the prices provided.
3. Metric will coordinate with the FWC on lighting suggestions. However, the FWC often refuses to commit to approval of lighting without a site visit. Metric Engineering will provide alternatives that is considers the most likely to be approved based on the information and documentation provided by agencies and lighting manufacturers and/or dealers.

Schedule

Metric Engineering is available to begin work on this project within two business days of receiving authorization from the City of Dania Beach.

If you have any questions about this proposal please let us know.

Sincerely,
Metric Engineering, Inc.



Justin E. Freedman
Senior Environmental Scientist