



# DANE COUNTY DEPARTMENT of PUBLIC WORKS, HIGHWAY and TRANSPORTATION

County Executive  
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Commissioner / Director  
Gerald J. Mandli

AUGUST 27, 2015

**ATTENTION ALL REQUEST FOR BID (RFB) HOLDERS**

**RFB NO. 315013 - ADDENDUM NO. 1**

**ZOO WALKWAY LIGHTING - HENRY VILAS ZOO**

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**BIDS DUE**: TUESDAY, SEPTEMBER 2, 2015, 2:00 PM. DUE DATE AND TIME **ARE** CHANGED BY THIS ADDENDUM.

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This Addendum is issued to modify, explain or clarify the original Request for Bid (RFB) and is hereby made a part of the RFB. Please attach this Addendum to the RFB.

**PLEASE MAKE THE FOLLOWING CHANGES:**

**1. Project Manual Cover Page**

Change: “ Due Date / Time: **TUESDAY, SEPTEMBER 1, 2015 / 2:00 P.M.** ”,  
to: “Due Date / Time: **WEDNESDAY, SEPTEMBER 2, 2015 / 2:00 P.M.** ”.

**2. Advertisement for Bids (Legal Notice)**

Change: “ **2:00 P.M., TUESDAY, SEPTEMBER 1, 2015** ”,  
to: “ **2:00 P.M., WEDNESDAY, SEPTEMBER 2, 2015** ”.

**3. Section 01 00 00**

Page 7 - Item 1.29.B.:

Change: “ ... for approval at least seven (7) days prior to Bid Due Date. ”, to: “ ... for approval at least two (2) days prior to Bid Due Date. ”.

Page 7 - Item 1.30.A.:

Change: “ ... Substitutions only up to seven (7) days prior to Bid Due Date. ”, to: “ ... Substitutions only up to two (2) days prior to Bid Due Date. ”.

**4. Section 01 47 19**

Page 1 - Item 1.1.B.:

Delete items 2 & 3.

**5. Section 26 56 33**

Delete Page 26 56 33 - 1 & add new Section 26 56 33, issued with this Addendum.

If any additional information about this Addendum is needed, please call Scott Carlson at 608/266-4179, carlson.scott@countyofdane.com.

Sincerely,

*Scott Carlson*

Project Manager / Engineer

Enclosures:

Section 26 56 33

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## SECTION 26 56 33

### WALKWAY LIGHTING

#### PART 1 GENERAL

##### 1.1 SUMMARY

- A. Section includes concrete base, exterior luminaire pole, and luminaire with lamps, solar panel power source and accessories, connection to power source.

##### 1.2 SUBMITTALS

- A. Section 01 00 00 - Basic Requirements: Submittal Procedures.
- B. Shop Drawings: Indicate dimensions and components for each luminaire.
- C. Product Data: Submit dimensions, ratings, and performance data.
- D. Samples: Submit two color chips 3 x 3 inch in size illustrating luminaire finish color.
- E. Submit Focus on Energy or MG&E utility rebate forms, where offered at project location, with rebate items completed.
- F. LED luminaire submittals shall include photometric report per IESNA LM-79-08 for the latest generation system being furnished, including independent testing laboratory name, report number, date, luminaire model number, input wattage, luminaire, and light source specifications. Manufacturer origin of LED chipset and driver shall be submitted.

##### 1.3 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years experience.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 00 00 - Basic Requirements: Protection; Transportation, Handling, Storage and Protection.

##### 1.5 COORDINATION

- A. Section 01 00 00 - Basic Requirements: Coordination.
- B. Furnish bolt templates and pole mounting accessories to installer of pole foundations.

##### 1.6 MAINTENANCE MATERIALS

- A. Section 01 00 00 - Basic Requirements: Spare Parts and Maintenance Materials.

- B. Furnish one spare of each luminaire head type installed.
- C. LED Light Engines or Modules: One spare of each size and type.
- D. LED Drivers: One spare of each size and type.
- E. Furnish one (1) gallon of touch-up paint for each different painted finish and color.

## 1.7 WARRANTY

- A. Light emitting diode (LED) light engines and drivers shall have a five-year warranty from date of Substantial Completion.

## PART 2 PRODUCTS

### 2.1 LUMINARIES

- A. Product Description: Complete exterior luminaire / solar power panel assemblies, with features, options, and accessories as scheduled or described.
- B. Refer to Section 01 00 00 - Basic Requirements: Product Options.

### 2.2 LIGHT EMITTING DIODE (LED) LUMINAIRE SYSTEMS

- A. Manufacturers:
  - 1. Basis of Design: Greenshield, Lumina Series
    - a. Fixture: GS-LED-L30-30W; mounted on "Shepard's crook" arm
    - b. Battery: pole mounted
  - 2. Substitutions: Section 01 00 00 - Basic Requirements: Substitutions.
- B. Provide low temperature LED drivers, with reliable starting to -20°F.
- C. Light emitting diodes used in interior applications shall have a minimum color rendering index (CRI) of 80. Light emitting diodes used in exterior applications shall have a minimum color rendering index (CRI) of 70. Color temperature of the luminaires shall be as noted on the luminaire schedule.
- D. LED chip arrays specified as color changing shall have chip colors as noted on the luminaire schedule.
- E. LED chips shall be wired so that failure of one chip does not prohibit operation of the remainder of the chip array.
- F. LED Driver:
  - 1. Solid state driver with integral heat sink. Driver shall have overheat, short-circuit and overload protection, power factor 0.90 or above and maximum total harmonic distortion of 20%. Surge suppression device for all exterior luminaires.

2. Drivers shall have dimming capabilities as outlined in the luminaire schedule for each luminaire type.
3. Driver shall have a minimum of 50,000 hours rated life.

## 2.3 METAL POLES

- A. Manufacturers:
  1. Manufacturer of Luminaire; decorative type.
  2. Valmont Poles.
  3. U. S. Pole Company.
  4. KW Industries.
  5. Substitutions: Section 01 00 00 - Basic Requirements: Substitutions.
- B. Material and Finish: Steel with bronze finish.
  1. Substitutions: Section 01 00 00 - Basic Requirements: Substitutions.
    - a. Black or gray (to match existing site fixtures) may be acceptable upon Owner approval.
- C. Section Shape: Round or Square.
- D. Metal Poles: Straight steel lighting pole with anchor base.
- E. Height: 16 feet, minimum; 20 feet maximum.
- F. Base: Direct embedded type.
- G. Accessories:
  1. Handhole: 2 x 4 inches with removable weatherproof cover installed at manufacturer's standard location. Provide matching gasketed cover plate.
  2. Anchor bolts: As recommended by pole manufacturer. Provide template, flat washers, lock washers, and hex nuts for each pole. Grout between anchor plate and concrete base with non-shrink grout after pole is plumbed.
  3. Vibration Damper: Canister or snake type second mode vibration damper internal to the pole as recommended by pole manufacturer. Provide additional pole top damper for first mode vibration on single-head poles where recommended by manufacturer.
- H. Wind Load: 100 MPH velocity, with 1.3 gust factor with luminaires and brackets mounted.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Section 01 00 00 - Basic Requirements: Coordination; Quality Assurance / Quality Control of Installation
- B. Verify foundations are ready to receive fixtures.

### 3.2 INSTALLATION

- A. Figure 1 gives a general location for each luminaire. Exact location shall be determined & marked in conjunction with Owner.
- B. Install concrete bases for lighting poles at previously determined locations & in accordance with luminaries' manufacturer.
- C. Install concrete bases immediately upon receiving Notice to Proceed.
- D. Install poles plumb. Install double nuts to adjust plumb. Grout around each base.
- E. Install lamps in each luminaire.
- F. Bond and ground luminaries, accessories and metal poles in accordance with luminaries' manufacturer.
- G. Use belt slings or non-chafing ropes to raise and set pre-finished luminaire poles.

### 3.3 FIELD QUALITY CONTROL

- A. Section 01 00 00 - Basic Requirements: Quality Assurance / Quality Control of Installation; Demonstration and Instructions; Contract Closeout Procedures; Adjusting.
- B. Operate each luminaire after installation and connection. Inspect for improper connections and operation.
- C. Measure illumination levels to verify conformance with performance requirements.
- D. Take measurements during night sky, without moon or with heavy overcast clouds effectively obscuring moon.

### 3.4 ADJUSTING

- A. Section 01 00 00 - Basic Requirements: Quality Assurance / Quality Control of Installation; Starting Systems; Adjusting.
- B. Aim and adjust luminaries to provide illumination levels and distribution.

### 3.5 CLEANING

- A. Section 01 00 00 - Basic Requirements: Final Cleaning.
- B. Clean photometric control surfaces as recommended by manufacturer.
- C. Clean finishes and touch up damage.

- D. Restore any areas disturbed by excavating, equipment or labor to conditions before work began. This may require replanting grass with the same seed used elsewhere at the site. The restoration shall be to Owner's satisfaction.

### 3.6 PROTECTION OF FINISHED WORK

- A. Section 01 00 00 - Basic Requirements: Protection of Installed Work.
- B. Relamp luminaires having failed lamps at Substantial Completion. Replacement of lamp burnouts after the warranty period starts shall be the responsibility of Owner.

### 3.7 UTILITY REBATE

- A. Submit Focus on Energy or MG&E utility rebate form to Owner with information for each rebate item completed. Include all invoices and information required by utility.

### 3.8 SCHEDULE

- A. Inform Owner verbally or in writing, every other day, which concrete bases or luminaires will be installed & what areas work will be taking place.
- B. Concrete bases shall be installed upon receipt of Owner's Notice to Proceed. Cautionary orange cone shall be placed on each concrete base until luminaire is installed.
- C. Luminaires shall be installed immediately following delivery to Contractor.

END OF SECTION