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Outagamie County Plamann Park Lighting & Camera Project

Special Provisions

Table of Contents

Article	Description	Page #
1.	General.....	2
2.	Scope of Work.....	2
3.	Prosecution and Progress.....	2
4.	Electrical Work by Others.....	2
5.	Mobilization, Item 619.1000. ....	3
6.	Construction Staking Electrical Installations, Item 650.8501.....	3
7.	Pull Boxes Non-Conductive 24X42-Inch, Item 653.0164.....	3
8.	Concrete Control Cabinet Base Type L30, Item 654.0230.....	3
9.	Electrical Wire Lighting 12 AWG, Item 655.0610; Electrical Wire Lighting 8 AWG, Item 655.0620; Electrical Wire Lighting 6 AWG, Item 655.0625.....	3
10.	Electrical Service Meter Breaker Pedestal (CB100), Item 656.0201.001; Electrical Service Meter Breaker Pedestal (CB200), Item 656.0201.002; Electrical Service Meter Breaker Pedestal (CB300), Item 656.0201.003.....	3
11.	Lighting Control Cabinets 120/240 30-Inch, Item 659.2130. ....	3
12.	Concrete Base – Type A, Item SPV.0060.01; Concrete Base – Type B, Item SPV.0060.02.....	4
13.	Roadway Lighting Unit, Item SPV.0060.03; Parking Lot Lighting Unit, Item SPV.0060.04; Pathway Lighting Unit, Item SPV.0060.05.....	4
14.	Conduit HDPE 2-Inch, Item SPV.0090.01 .....	5
15.	Hardwired Lighting Controls, Item SPV.0105.01 .....	5
16.	Advanced Lighting Controls, Item SPV.0105.02.....	6
17.	Camera System Information .....	7

## **SPECIAL PROVISIONS**

### **1. General.**

Perform the work under this construction contract for Plamann Park Lighting and Camera System, Outagamie County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2025 Edition, as published by the department, and these special provisions. Applicable WisDOT Standard Detail drawings are as follows:

- 9B2 – Conduit
- 9B16 – Pull Box Non-Conductive
- 9D1 – Cabinet Service Installation (Meter Breaker Pedestal)
- 9D4 – Lighting Control Cabinet 120/240 Volt
- 9E1 - Pole Mountings
- 9E3 – Non-Freeway Lighting Unit Pole Wiring

Furnish lighting components from the WisDOT Qualified Products List [QPL](#) unless otherwise noted.

#### **Personnel Qualifications**

*Amend section 651.3.2, Personnel Qualifications, by adding the following paragraphs:*

(4) Due to the nature of the Work, the Owner or Engineer will not always have a representative immediately available to the Contractor's Representative nor will a representative be immediately available at all locations of the work. It shall be the responsibility of the Contractor to have competent staff able to understand and implement all aspects of the work in accordance with the requirements of the Contract at all times.

(5) Sub-contractors must be under contract with the prime contractor at the time of bid award.

(6) Effective May 1, 2007 employers performing work on public works construction projects in Wisconsin for municipal government and state building projects will be required to have a written substance abuse testing program in place. No employee may use, possess, attempt to possess, distribute, deliver or be under the influence of a drug or use or be under the influence of alcohol, while performing the work on this project. The contractor shall immediately remove an employee from work on this project if an officer or employee of the City has a reasonable suspicion that the employee is in violation of this provision and requests the Contractor to immediately remove the employee from work on the project. The complete provisions of this requirement are contained in 2005 Wisconsin Act 181. For legal advice on complying with Act 181, you may wish to consult with a private attorney.

### **2. Scope of Work.**

The work under this contract shall consist of furnishment, and installation of roadway, pathway, and parking lot lighting units and cameras, controls, underground infrastructure, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

This plan includes two (2) bid alternates related to lighting controls, and subsequently the conductor sizes and routing associated with each.

### **3. Prosecution and Progress.**

Begin work within 10 calendar days after the engineer issues a written notice to do so.

### **4. Electrical Work by Others**

The electric utility (WE Energies) shall be responsible for removal of existing lighting throughout the park. Existing fixtures along the North park entrance shall remain in accordance with the plans.

**5. Mobilization, Item 619.1000.**

**A Description**

This bid item shall be furnished and installed according to WisDOT standard bid item 619.1000 in section 619 of the Standard Specifications for Highway and Structure Construction (2025 Edition).

**6. Construction Staking Electrical Installations, Item 650.8501.**

**A Description**

This bid item shall be furnished and installed according to WisDOT standard bid item 650.8501 in section 650 of the Standard Specifications for Highway and Structure Construction (2025 Edition).

**7. Pull Boxes Non-Conductive 24X42-Inch, Item 653.0164.**

**A Description**

This bid item shall be furnished and installed according to WisDOT standard bid item 653.0164 in section 653 of the Standard Specifications for Highway and Structure Construction (2025 Edition).

**8. Concrete Control Cabinet Base Type L30, Item 654.0230.**

**A Description**

This bid item shall be furnished and installed according to WisDOT standard bid item 654.0230 in section 654 of the Standard Specifications for Highway and Structure Construction (2025 Edition).

**9. Electrical Wire Lighting 12 AWG, Item 655.0610; Electrical Wire Lighting 8 AWG, Item 655.0620; Electrical Wire Lighting 6 AWG, Item 655.0625.**

**A Description**

These bid items shall be furnished and installed according to WisDOT standard bid items 655.0610, 655.0620, 655.0625 in section 655 of the Standard Specifications for Highway and Structure Construction (2025 Edition).

**10. Electrical Service Meter Breaker Pedestal (CB100), Item 656.0201.001; Electrical Service Meter Breaker Pedestal (CB200), Item 656.0201.002; Electrical Service Meter Breaker Pedestal (CB300), Item 656.0201.003.**

**A Description**

These bid items shall be furnished and installed according to WisDOT standard bid items 656.0201.001, 656.0201.002, 656.0201.003 in section 656 of the Standard Specifications for Highway and Structure Construction (2025 Edition).

**11. Lighting Control Cabinets 120/240 30-Inch, Item 659.2130.**

**A Description**

This bid item shall be furnished and installed according to WisDOT standard bid item 659.2130 in section 659 of the Standard Specifications for Highway and Structure Construction (2025 Edition).

**12. Concrete Base – Type A, Item SPV.0060.01; Concrete Base – Type B, Item SPV.0060.02.**

**A Description**

This special provision describes furnishing and installing concrete bases as shown in the plans. This work shall be in accordance with the requirements of section 654 of the Standard Specifications for Highway and Structure Construction (2025 Edition), the plans, standard detail drawings, and as hereinafter provided.

**B Materials**

In accordance with the plans and section 654.2 of the standard specifications. Anchor bolts shall be furnished in accordance with lighting unit manufacturer recommendations.

**C Construction**

In accordance with the plans and section 654.3 of the standard specifications.

Ensure bolt circle compatibility with the furnished lighting units prior to tying rebar cages. Field adjust cages and anchor bolts as necessary if dimensions vary from those shown on the plans.

**D Measurement**

The item will be measured in place by the unit and the quantity measured for payment will be the number of bases installed.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.01	Concrete Base – Type A	EACH
SPV.0060.02	Concrete Base – Type B	EACH

Payment in accordance with section 654.5. Payment is full compensation for furnishing concrete bases; for embedded conduit and electrical components; for anchor rods, nuts and washers; for bar steel reinforcement; for excavating, backfilling, restoring landscaping, and disposing of surplus materials.

**13. Roadway Lighting Unit, Item SPV.0060.03; Parking Lot Lighting Unit, Item SPV.0060.04; Pathway Lighting Unit, Item SPV.0060.05.**

**A Description**

This work shall be in accordance with the requirements of section 657 of the Standard Specifications for Highway and Structure Construction (2025 Edition), the plans, standard detail drawings, and as hereinafter provided.

**B Materials**

Furnish and install the following lighting unit equipment or approved equivalent products:

Roadway Lighting Unit:

**Pole: Valmont – Square Straight Aluminum Alloy**

Catalogue Number S-200050506Y4 XX DBL 335

**Luminaire: Cooper Lighting – Lumark Prevail**

Catalogue Number PRV-PA1B-730-D-UNV-T2R-SA-BLK-PR7

Parking Lot Lighting Unit:

**Pole: Valmont – Square Straight Aluminum Alloy**

Catalogue Number S-200050506Y4 XX DBL 335

**Luminaire: Cooper Lighting – Lumark Prevail**

Catalogue Number PRV-PA2A-730-D-UNV-T4W-SA-BLK-PR7

Pathway Lighting Unit:

**Pole: Valmont – Round Straight Aluminum Alloy**

Catalogue Number R-140045456S4-XX-XXX-335

**Luminaire: Visionaire Lighting – Lusso Array**

Catalogue Number LSO-M-T2-5L-3K-UNV-PTD-BK-LDL-7PINPER-DIM

Provide shorting caps for all luminaires if bid alternate #1 is selected.

**C Construction**

In accordance with the plans and section 657.3 of the standard specifications.

**D Measurement**

In accordance with the plans and section 657.4 of the standard specifications.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.03	Roadway Lighting Unit	EACH
SPV.0060.04	Parking Lot Lighting Unit	EACH
SPV.0060.05	Pathway Lighting Unit	EACH

Payment for the Lighting Unit bid items is full compensation for providing all materials, including poles, all hardware, and fittings necessary to install the pole; and for all labor, tools, equipment, and incidentals necessary to complete the work.

**14. Conduit HDPE 2-Inch, Item SPV.0090.01**

**A Description**

This work shall be in accordance with the requirements of section 652 of the Standard Specifications for Highway and Structure Construction (2025 Edition), the plans, standard detail drawings, and as hereinafter provided.

**B Materials**

Furnish 2-inch schedule 40 HDPE electrical conduit conforming to UL 651A.

**C Construction**

In accordance with the plans and section 652.3 of the standard specifications.

**D Measurement**

The Conduit HDPE 2-Inch item will be measured by the linear foot of conduit acceptably completed.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.01	Conduit HDPE 2-Inch	EACH

Payment for the Conduit HDPE bid item is full compensation for providing the conduit, conduit bodies, and fittings; for pull wires or ropes; for expansion fittings and caps; for excavating, bedding, and backfilling, including any sand, concrete, or other required materials; for making inspections; for repairing overlying pavement, curb and gutter, or sidewalk the contractor disturbs or damages; for pull box drain duct the engineer directs under the 653 Pull Box bid items.

**15. Hardwired Lighting Controls, Item SPV.0105.01**

**A Description**

This special provision describes the furnishment and installation of hardwired lighting controls. This work shall be completed under bid alternate #1, should the County decide to proceed with the alternative. This work shall be in accordance with the plans, 2017 NEC code, and as hereinafter provided.

**B Materials**

Furnish and install an ELV trailing edge dimmer for controls of all parking lot lighting circuits with minimum ratings for 1,000W and 10A. Ensure that dimmer is compatible with parking lot luminaires per manufacturer recommendations.

Furnish and install an approved time clock for controls of all parking lot luminaire circuits.

**Approved Product**

**Intermatic Model # ET90215C Time Switch.**

**Engineer approved equivalent.**

**C Construction**

Install time clocks and dimming controls for parking lot lighting circuits in all lighting control cabinets. Modify control cabinets as necessary to fit all controls inside the enclosure in accordance with NEC guidelines and the engineer in the field.

Parking lot lighting shall be controlled such that upon park closure, the lights dim to a level as defined by the County. Schedule and dimming requirements shall be provided by the Outagamie County Parks Department.

Install time clock and dimming controls on the following parking lot lighting circuits:

**CB100**

**Circuits 9 & 11**

**CB200**

**Circuits 9 & 11**

**CB300**

**Circuit 9**

**D Measurement**

The department will measure Hardwired Lighting Controls as a single lump sum for each service acceptably completed.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.01	Hardwired Lighting Controls	EACH

Payment is full compensation for furnishing and installing hardwired controls; for all materials required for mounting of additional control components; for coordinating a dimming schedule with the County; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

**16. Advanced Lighting Controls, Item SPV.0105.02**

**A Description**

This special provision describes the furnishment and installation of advanced lighting controls. This work shall be completed under bid alternate #2, should the County decide to proceed with the alternative. This work shall be in accordance with the plans, 2017 NEC code, and as hereinafter provided.

**B Materials**

Furnish and install an approved advanced control system for all lighting units.

Advanced controls shall consist of cellular connected nodes, universally compatible with any 7-pin receptacle. Controls shall be capable of utilizing any cellular network based on the strongest connectivity available. Contractor shall verify acceptable connectivity prior to furnishing and installing the product.

Controls shall be capable of adjusting light levels according to a schedule provided by the Outagamie County Parks Department.

Software package and training of County staff shall be included with the advanced controls bid item.

## Approved Product

**Trellix by Cooper Lighting Solutions.**

**Engineer approved equivalent.**

## C Construction

Install advanced control nodes on the 7-pin receptacle of all luminaires according to manufacturer recommendations.

Coordinate with the manufacturer to verify cellular connectivity, install software on County devices, and provide program training for County forces.

## D Measurement

The department will measure Advanced Lighting Controls as a single lump sum for each service acceptably completed.

## E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.02	Advanced Lighting Controls	EACH

Payment is full compensation for furnishing and installing all controls equipment; for coordination with the County and the manufacturer; for assisting with software installation and training; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

## 17. Camera System Information

### A General Project Information

- 1) Drawings and general provisions of Contract, including General and Supplementary Conditions, apply to work of this section.
- 2) The Outagamie County Network Engineer will serve as the Project Manager.
- 3) The successful bidder (contractor) will provide all labor, materials, tools, equipment and incidentals required to make ready for use a complete and properly operating Premise Distribution System (PDS) to serve as a vehicle for transport of voice and data signals.
- 4) The successful bidder (contractor) will provide all labor, materials, tools, equipment and incidentals required to make ready for use a complete and properly operating Electrical System.
- 5) The work provided under this contract document shall include all labor, materials, permits, inspections and re-inspection fees, tools, equipment, transportation, insurance, temporary protection, temporary lighting, supervision and incidental items essential for a properly installed and operating PDS, even though not specifically mentioned or indicated but which are usually provided or are essential for a properly operating PDS.
- 6) All drawings are diagrammatic and are not intended to show exact locations of handholes, conduit runs, junction boxes, riser details, MDF/IDF to the station locations, etc. The exact locations are to be provided to and accepted by the owner prior to construction starting. Obtain in the field all information relevant to the installation of the PDS. In case of interference(s) with other trades, proceed as directed by the Project Manager to provide a completed PDS in an acceptable manner.
- 7) The contractor shall check all site drawings and existing site conditions before bidding and advise the Project Manager of any discrepancies prior to the bid.
- 8) The word "PROVIDE" where used in this contract document shall mean: Furnish, install, mount, connect, protect, test, complete and make ready for operation. The word "INSTALL" shall mean: The same as provide with the exception of furnish.
- 9) This contract document describes the very minimum requirements that must be met for an acceptable installation.
- 10) The contractor will give all notices, file all plans, pay all fees, and obtain all permits and approvals from the authorities having jurisdiction. Include all fees in the bid package.
- 11) Notify the Outagamie County Project Manager of any discrepancies found during construction of the project and do not proceed with that portion of the project, until written statement is received from the Project Manager providing clear directions. If a conflict exists between the contract documents and any applicable code or standard, the most stringent requirement shall be included for this project. The Project Manager shall make the decision regarding questionable areas of conflict.

- 12) Coordinate final equipment locations with the Outagamie County Project Manager. Drawings will be submitted with the bid proposal showing the layout of the material to be installed. Provide coordination with the Project Manager during construction as required for installation in a neat workmanlike manner.

#### **B Reference Standards**

- 1) UL Underwriter's Laboratories, Inc.
- 2) NEC National Electric Code
- 3) NFPA National Fire Protection Association
- 4) NEMA National Electric Manufacturers Association
- 5) ASTM American Society for Testing and Materials
- 6) IEEE Institute of Electrical and Electronic Engineers
- 7) ANSI American National Standards Institute, Inc.
- 8) BICSI Building Industry Consultants Service International
- 9) EIA/TIA Electronic / Telecommunications Industry Association
- 10) All Federal, State, County and City laws, codes and standards apply
- 11) All work shall be performed under the latest edition of the above standards, available at the time of bidding. All references to a PDS within the above standards shall be in effect as having been written within this contract document.

#### **C Testing**

- 1) All fiber optic strands shall be tested with an Optical Time Domain Reflectometer to verify integrity. Provide test results in electronic format (PDF) to the Outagamie County project manager.
- 2) Fiber optic cable shall be tested for insertion loss by following the EIA/TIA Annex H Optical Fiber Link Performance Testing specification.

#### **D Warranty**

The Contractor shall provide a 15-year product warranty. Warranty shall state that the installed cable system will be free off defects and will meet or exceed the requirements of the applicable EIA/TIA standards for a period of 15 years. Warranty repairs shall cover all material and labor. The Vendor shall pass along to The Customer any additional warranties offered by the manufacturers, at no additional costs to The Customer, should said warranties extend beyond the period specified herein.