ALABAMA DEPARTMENT OF TRANSPORTATION

1409 Coliseum Boulevard
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ITB #: 13-R-2251906
REQN #: G13-303384
SNAP #: 1504368

Robert Bentley
Governor

John R. Cooper
Transportation Director

Maintenance Bureau Specifications

Lighting Upgrade Various Maintenance Bureau Shops

I. General

The scope of work consists of replacing existing lighting fixtures With LED lights and modernizing existing wiring and other electrical components in several Maintenance Bureau shops located on Traffic operations drive in Montgomery, Alabama. as detailed below. The successful bidder will provide all labor, materials and supervision required and all work will be preformed or supervised by a licensed electrician. The work will be coordinated with the supervisor of each shop as to minimize the interruption of normal ALDOT activates in each shop and warehouse.

II. Scope of Work

1. Bridge Warehouse

A. Remove existing metal halide 300 watt lights

B. Relocate the two outside rows of lights 4' towards the outer wall.

C. Remove the existing panel and replace with a new MB 200 Amp panel per Section IV Panel Spec #1

D. Rewire lights to operate in 3 separate banks to be operated by 3 way switches located at both the front and back warehouse doors.

E. Install conduit, J boxes and three 3-way switches so warehouse lighting can be operated from two separate locations.

F. Install and wire a 125 amp Panel with 5-20 amp circuits in the warehouse office to stay hot at all times per panel spec #2.

G. Connect all warehouse office outlets and lighting to the new 100 amp panel.

H. Install 35 new LED high bay lights (see Section IV High Bay Spec #1) in the Bridge warehouse.

I. All new fixtures will be warranted for a period of five years by the successful bidder to supply and replace at no cost any that should fail.

J. Add one 240 volt 100 amp surface outlet on the warehouse side of the warehouse office wall. Plug to match the power requirements of the shop plasma arc. This will include the conduit and wiring required to connect to the new 200 amp service panel.

K. The successful bidder will submit an electrical shop drawing and five copies showing the intended improvements for ALDOT approval prior to the purchase of any materials and prior to and work being done.

2. Signal Shop Hallway

Remove and replace the six existing incandescent lights with new Lunera 2X2 LED Series 22 lights. To include any and all additional electrical components required to complete the work.

3. Signal Shop Main Warehouse

Remove and replace the existing 30 mercury vapor and metal halide lights using 30 new LED high bay lights (see Section IV High Bay Spec #1). To include any and all additional electrical components required to complete the work.

4. Signal Shop Mezzanine

Remove and replace the existing 10 incandescent lights using 10 new LED low bay lights (see Section IV Low Bay Spec #2). To include any and all additional electrical components required to complete the work.

5. Dive Shop High Bay

Remove and replace the existing 9 metal halide lights plus 2 lights in the gage area using 11 new LED high bay lights (see Section IV High Bay Spec #1). To include any and all additional electrical components required to complete the work.

6. Dive Shop Open Garage

Remove and replace the existing 10 mercury vapor and metal halide lights using 10 new LED high bay lights (see Section IV High Bay Spec #1). To include any and all additional electrical components required to complete the work.

7. Dive Shop Exterior Lighting

Remove and replace the existing wall pack light at each door (3 in total) using a Guth Sundowner 7R Wallpack (or approved equal). Remove and replace the existing 11 mercury vapor and metal halide wall pack flood lights using 11 new LED high bay lights (see Section IV High Bay Spec #1). All exterior lights to contain a "dusk-to-dawn" light sensor/photocell for automatic control. To include any and all additional electrical components required to complete the work.

III. Requirements

A. Contractor must implement proper disposal plan of non-salvaged parts and materials per ADEM guidelines. Salvaged material will become the property of the successful bidder. The successful bidder shall be responsible for removal of all salvaged and non-salvaged parts and materials and both shall be a subsidiary obligation of the bid price. Copy of Receipt from recycling and/or Salvage Company as applicable must be presented to ALDOT upon completion of the work.

B. Contractor is to notify ALDOT if removal of existing wiring is required. The contractor is responsible for all materials, labor, and equipment required to successfully perform the work. This includes but is not limited to new wiring, fixtures, harnesses, brackets, hardware, bulbs, conduits, circuits, breakers, fuses, resistors, capacitors, surge

protection, fixture covers, ballasts and other electrical and/or mechanical devices, hardware, or accessories.

C. Contractor must perform and deliver all work in conformance to applicable state electrical codes, NEMA and the National Electrical Code. Contractor is to submit a lighting plan which includes location, size, quantity, etc. of the new lighting prior to commencement of onsite work. An as built lighting plan, showing any modifications to existing circuit breakers, fuses, panels, wiring, etc. shall be provided.

D. Contractor is to perform work during normal work hours (Monday – Friday, 7:30am – 4:30pm). Contractor is to contact Mr. Robert Speigner (Bridge Warehouse Supervisor), 334-242-6505, for access to work area. Accessibility to work area beyond normal work hours is not guaranteed. Work is to be completed ninety (90) days from date of bid award notification. Contact Mr. Speigner in order to tour the facility prior to submission of a bid.

IV. LED & Panel Specifications

Minimum specifications for the replacement LED lights and panels shall be as follows:

High Bay Spec #1:

Power Draw - 46 watts
Light Output - 5,400 lumens
Input Voltage: 85-305 (AC or DC current)
LED Life - 100,000 hour with maximum 20% lumen depreciation at 100,000 hours
5 year warranty - UL 8735 Certified
LM 79 & LM 80 Certified
Color Temperature - 5,500 Kelvin

Low Bay Spec #2:

Power Draw - 35 watts
Light Output – 4,050 lumens
Input Voltage: 85-305 (AC or DC Current)
LED Life - 100,000 hour with maximum 20% lumen depreciation at 100,000 hours
5 year warranty - UL 8735 Certified
LM 79 & LM 80 Certified
Color Temperature - 5,500 Kelvin

Panel Spec #1:

MLO (main load only) 200 amp 120/240 v. 3 phase panel
42 circuit snap-in breakers
Commercial Grade – Square D or equivalent

Panel Spec #2:

MLO (main load only) 125 amp 120/240 v. single phase panel
20 circuit snap-in breakers
Commercial Grade – Square D or equivalent