

SECTION 905 -- PROPOSAL (CONTINUED)

I (We) hereby certify by digital signature and electronic submission via Bid Express of the Section 905 proposal below, that all certifications, disclosures and affidavits incorporated herein are deemed to be duly executed in the aggregate, fully enforceable and binding upon delivery of the bid proposal. I (We) further acknowledge that this certification shall not extend to the bid bond or alternate security which must be separately executed for the benefit of the Commission. This signature does not cure deficiencies in any required certifications, disclosures and/or affidavits. I (We) also acknowledge the right of the Commission to require full and final execution on any certification, disclosure or affidavit contained in the proposal at the Commission's election upon award. Failure to so execute at the Commission's request within the time allowed in the Standard Specifications for execution of all contract documents will result in forfeiture of the bid bond or alternate security.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO. 1 DATED 10/17/2016 ADDENDUM NO. 3 DATED 11/14/2016
 ADDENDUM NO. 2 DATED 10/27/2016 ADDENDUM NO. DATED

Number	Description
1	Revised NTB Nos. 6656 & 6658; Amendment EBS Download Required.
2	Postponed; Amendment EBS download required.
3	Revised Advertisement; Revised Table of Contents; Revised NTB No. 6656; Added SP 907-723-2; Revised or Added Plan Sheet Nos.2, & 4001; Admendment EBS Download Required.

TOTAL ADDENDA: 3
 (Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

_____ Contractor

BY _____ Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

_____	President	Address
_____	Secretary	Address
_____	Treasurer	Address

The following is my (our) itemized proposal.

SP-0022-01(081) / 106636301000
 Harrison County(ies)

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET
OF SECTION 905 AS ADDENDA)

11/16/2016 10:36 AM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Tuesday, November 22, 2016, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Roundabout Construction on MS 15 at Lamey Bridge Road, known as State Project No. SP-0022-01(081) / 106636301 in Harrison County.

The attention of bidders is directed to the predetermined minimum wage rate set by the U. S. Department of Labor under the Fair Labor Standards Act.

The Mississippi Department of Transportation hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, age, disability, religion or national origin in consideration for an award.

Plans and specifications are on file in the offices of the Mississippi Department of Transportation.

Bid proposals must be purchased online at <https://shopmdot.ms.gov>. Specimen proposals may be viewed and downloaded online at no cost at <http://mdot.ms.gov> or purchased online. Proposals are available at a cost of Ten Dollars (\$10.00) per proposal plus a small convenience fee. Cash or checks will not be accepted as payment.

Plans must be purchased online at <https://shopmdot.ms.gov>. Costs of plans will be on a per sheet basis plus a small convenience fee. If you have any questions, you can contact the MDOT Plans Print Shop at (601) 359-7460, or e-mail at plans@mdot.state.ms.us. Plans will be shipped upon receipt of payment. Cash or checks will not be accepted as payment.

Bid bond, signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent, with Power of Attorney attached, a Cashier's check or Certified Check for five (5%) percent of bid, payable to STATE OF MISSISSIPPI, must accompany each proposal.

The attention of bidders is directed to the provisions of Subsection 102.07 pertaining to irregular proposals and rejection of bids.

MELINDA L. MCGRATH
EXECUTIVE DIRECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 6656

CODE: (SP)

DATE: 09/7/2016

SUBJECT: Contract Time

PROJECT: SP-0022-01(081) / 106636301 - Harrison Co

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 907-108.06. It is anticipated that the Notice of Award will be issued no later than **December 13, 2016** and the date for Notice to Proceed / Beginning of Contract Time will be **March 16, 2017**.

Should the Contractor request a Notice to Proceed earlier than **August 31, 2017** and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed / Beginning of Contract Time date.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-723-2

CODE: (SP)

DATE: 8/10/2015

SUBJECT: Light Emitting Diode (LED) Luminaires

PROJECT: SP-0022-01(081) / 106636301 - Harrison

Section 723, Lighting Assemblies, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as amended by this special provision is applicable for Light Emitting Diode (LED) Luminaire Systems Only.

After Subsection 723.08.9 on page 799, add the following.

907-723.09--Light Emitting Diode (LED) Luminaires. When called for on the plans LED luminaires may be used in any lighting assembly. LED luminaires must meet the following general requirements and any special requirements noted on the plans.

907-723.09.1--Housing. The luminaire housing shall be a low-profile, die-cast aluminum housing, grey powder-coat finish, minimum 3-mil thickness. The housing shall have wide angular channels that allow for natural removal of dirt and debris. The housing shall have a hinged door with tool-less entry. Luminaire weight and projected area must be within design loading limits as shown on the plans. The housing shall be UL 8750 and UL 1598 compliant, vibration tested to 3G per ANSI C136.31. The housing must be NRTL listed for wet locations.

907-723.09.2--Optical Requirements. The luminaire shall have a completely sealed optical system for the luminaire housing and shall have an International Electrotechnical Commission (IEC) International Protection marking (IP) code of 66 or greater. The luminaire shall have a light distribution pattern at the road surface that has an evenly dispersed appearance and shall provide the Illuminating Engineering Society (IES) pattern as identified on the plans.

907-723.09.3--Mounting. The luminaire shall have provisions for a 2-bolt slip fitter type mounting on nominal 2-inch (2 3/8" OD) pipe (arm) brackets. The mounting shall have a clamping assembly with two (2) bolts for securing the assembly to the light pole. There shall be an area on the top of the housing to allow for a level to be used for proper orientation of the luminaire. For a vertical (tenon) bracket, it shall have provisions for a 2-inch (2 3/8" OD) vertical tenon. It shall attach to the tenon with set screws.

907-723.09.4--Labeling Marking. Permanent labels must be placed inside the luminaire indicating NRTL listing. The luminaire shall have an external label per ANSI C136.15. The luminaire shall have an internal label per ANSI C136.22. An internal label or marking with date code of when fixture was manufactured shall be provided.

907-723.09.5--Electrical. The luminaire shall be rated for operating at ambient temperature between -40 and +40°C. The luminaire shall use Class I LED drivers and the drivers shall have a minimum power factor of 90%. The luminaire shall have a terminal block for connecting pole wiring to the luminaire. The power supply and other components shall have a quick disconnect wiring harness for ease of maintenance. Drivers and other electrical components must be NRTL listed for wet locations.

907-723.09.6--Documentation. The following documentation must be available upon request or submitted for approval:

- Luminaire specification sheet
- LED driver specification sheet
- LM-79 Luminaire photometric report. The vendor must submit LM-79 in-situ test data to confirm thermal operating temperatures of the luminaire
- LM-80 Lumen maintenance report
- TM-21 calculations
- Backlight, Uplight, Glare (BUG) rating of the luminaire
- Computer generated point by point photometric analysis
- Written product warranty
- Independent test lab IES photometric reports including; IES electronic file, IES chromaticity data from an LED Lighting Facts approved testing laboratory
- Instructions for installation and maintenance.

907-723.09.7--Chromaticity. The luminaire shall meet the following Chromaticity requirements.

- The standard color for the LED Luminaire shall be white.
- The colors shall conform to the following color regions based on the 1931 CIE chromaticity diagram.
- Nominal Correlated Color Temperature (CCT) = 4000K ±500K.
- The luminaire shall have a minimum Color Rendering Index (CRI) of 70.
- Chromaticity as stated above must be confirmed by an Independent test lab or shown on the LM-79 test report.

907-723.09.8--Surge Protection. The luminaire shall have a surge protection device (SPD), in addition to driver's internal protection, to withstand repetitive noise transients from utility line switching, nearby lightning strikes, and other interference.

Documentation shall be provided that shows the following:

- The SPD will protect the luminaire from common mode transient peak voltages up to 10 kV (minimum) and transient peak currents up to 5 kA (minimum).
- The SPD conforms to UL 1449, 3rd Edition, and has been tested in accordance with ANSI/IEEE C62.41.2 Scenario I Location Category C with modified test levels of 10kV/5kA Combination Wave for Line-Ground, Line-Neutral and Neutral-Ground.

- The SPD is listed or recognized by a NRTL to UL 1449, 3rd Edition.
- The SPD component in series with the line will stop current to the fixture in the event of SPD failure.

907-723.09.9--Rating. The fixture shall be rated for a minimum lamp efficiency of 70% lumen output at 75,000 hours at 25°C.

907-723.09.10--Warranty. The entire luminaire assembly, including material, finish, workmanship, power supply, LED modules and lumen maintenance, shall have a minimum of 5-year warranty from the date of installation. The fixture shall be determined to be defective if greater than 10% of the LEDs fail. A finish warranty shall include deterioration such as blistering, cracking, peeling, fading, or corrosion defects for a period of five (5) years.

ADDENDUM

FMS CON: 106636 / 301000

STATE	PROJECT NO.
MISS.	SP-0022-01(081)

WK. SH. NO.
SH. NO.

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DESCRIPTION OF SHEET

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PLAN & PROFILE SHEETS (8)

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PAVEMENT MARKING DETAIL - STA. 12+30 TO STA. 15+25	PMD-5	40

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

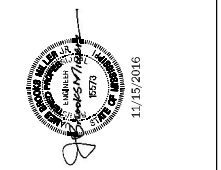
DETAIL INDEX

INTERSECTION OF SR 15 AND LAMEY BRIDGE ROAD

COUNTY: HARRISON
PROJ. NUM.: SP-0022-01(081)
FILENAME: DI-1.DGN

WORKING NUMBER: DI-1
SHEET NUMBER: 2

DESIGN TEAM: MICHAEL BAKER CORP. JBM DATE: 2016



PS & E PLANS DATE: 08/23/2016	FMS CON: 106636 / 301000	
REVISIONS		
DATE	SHEET NO.	BY
11/15/16	4001	JBM

ADDENDUM

LIGHTING NOTES

1. ALL LIGHTING ASSEMBLY LOCATIONS SHALL BE STAKED BY THE CONTRACTOR IN THE FIELD. THE STAKED ASSEMBLY LOCATIONS SHALL BE COORDINATED WITH ALL UTILITY COMPANIES TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL PLACE THE ASSEMBLIES AS STAKED AND APPROVED BY THE ENGINEER.
2. ALL QUANTITIES SHOWN FOR BRANCH CIRCUITS ARE APPROXIMATE AND MAY NOT REFLECT LENGTHS REQUIRED BY THE TERRAIN IN THE FIELD.
3. WHERE CONTRACTOR ENCOUNTERS PAVED DITCHES, IN ROUTING OF BRANCH CIRCUITS, HE MAY TRENCH AND REPLACE DITCH OR JACK UNDER DITCH. A SEPARATE PAY ITEM COSTS SHALL BE INCLUDED AS PART OF THE BID PRICE FOR A BRANCH CIRCUIT. ANY AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR (TO INCLUDE GRASSING AND SITE GRADING) AS DIRECTED BY THE ENGINEER. (NOT A SEPARATE PAY ITEM.)
4. CONTRACTOR SHALL NOTIFY UTILITIES BEFORE TRENCHING OR DIGGING IN VICINITY OF EXISTING UTILITY LINES SO THAT THE UTILITY COMPANY CAN VERIFY THE LOCATION OF THE LINES. CONTRACTOR SHALL USE 811 ONE CALL AND SEE SHEET WK-3 FOR LIST OF PUBLIC UTILITIES.
5. DISPOSAL OF EXCESS MATERIALS IS NOT A SEPARATE PAY ITEM.
6. INSTALL ALL LOW MAST LIGHTING ASSEMBLIES PERPENDICULAR TO EDGE OF ROADWAY OR FACE OF CURB, UNLESS OTHERWISE NOTED.
7. LOCATE PULLBOXES A MINIMUM OF 5 FEET FROM EDGE OF SHOULDER UNLESS OTHERWISE NOTED.
8. PULLBOX LOCATIONS APPEAR ON DRAWING PLANS FOR INFORMATIONAL PURPOSES. ONLY FINAL LOCATIONS SHALL BE ESTABLISHED IN THE FIELD TO MEET REQUIRED SITE CONDITIONS AS APPROVED BY THE ENGINEER.
9. ALL CONDUIT INSTALLED AT NEW UNDERPAVEMENT CROSSINGS SHALL BE TYPE SCHEDULE 80 PVC.
10. CABLE SPLICES SHALL NOT BE PERMITTED IN UNDERGROUND PULL BOXES. SPLICES ONLY PERMITTED IN POLE BASES AND UNDERGROUND GROUND JUNCTION BOXES, AS SHOWN ON PLANS.

LIGHTING DESIGN CRITERIA

LUMINAIRE MOUNTING HEIGHT: 40'-0"
 LED LUMINAIRES: 315 WATTS
 Δ LUMINAIRE DATA: Δ LUMINAIRE SHALL MEET THE REQUIREMENTS OF SUBSECTION 907.123.09
 LUMINAIRE DISTRIBUTION: FULL CUTOFF I.E.S. TYPE III
 DEPRECIATION FACTOR: L.L.F. = 0.75









PHOTOMETRIC STATISTICS

DESCRIPTION	AVG	MAX	MIN	MAX/MIN	AVG/MIN
SR 15/LAMEY BRIDGE RD. ROUNDABOUT INTERSECTION	1.38 fc	2.67 fc	0.48 fc	5.6:1	2.9:1

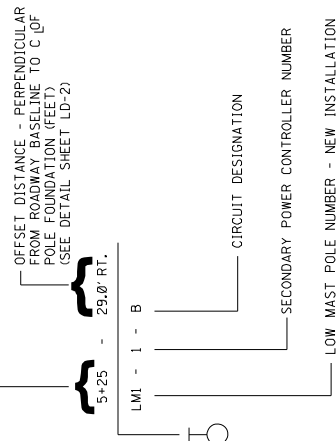
ABBREVIATIONS

- A.I.C. - AMPS INTERRUPTING CURRENT
- AWG - AMERICAN WIRE GAUGE
- BHD - BARE HAND DRAWN
- BRCH - BRANCH
- C - CONDUIT
- CL - CENTERLINE
- CKT - CIRCUIT
- E - EACH
- FT. - FEET
- F.C. - FOOT CANDLES
- GRD - GROUND
- IES - ILLUMINATING ENGINEERING SOCIETY
- LED - LIGHT EMITTING DIODE
- L.L.F. - LIGHT LOSS FACTOR
- LIN.FT. - LINEAR FEET
- L.S. - LUMP SUM
- LT. - LEFT
- MDOT - MISSISSIPPI DEPARTMENT OF TRANSPORTATION
- PVC - POLYVINYL CHLORIDE
- RT. - RIGHT
- S.P.-C. - SECONDARY POWER CONTROLLER
- TYP. - TYPICAL
- W. - WATT


LEGEND

-  - UNDERGROUND PULLBOX / JUNCTION BOX. SEE SHEET LDI.
-  - SECONDARY POWER CONTROLLER WITH POWER
-  - SECONDARY POWER CONTROLLER WITH POWER
- SECONDARY DROP. SEE SHEET LD3.
-  - UNDERGROUND BRANCH CIRCUIT - NUMBER AND SIZE OF CONDUIT AND CONDUCTORS AS NOTED (PVC CONDUIT)
-  - LOW MAST LIGHTING ASSEMBLY AT 40 FOOT MOUNTING HEIGHT WITH 15' ARM AND 4000K FULL CUTOFF TYPE III LED LUMINAIRE.
-  - JUNCTION BOX
-  - CONC. PAD
-  - LOW MAST LIGHTING ASSEMBLY AT 40 FOOT MOUNTING HEIGHT WITH 15' ARM AND 4000K FULL CUTOFF TYPE III LED LUMINAIRE.

STATION NUMBER OF LUMINAIRE LOCATION



SYMBOL LEGEND - LOW MAST POLES

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
	
LIGHTING INDEX, LEGEND & GENERAL NOTES INTERSECTION OF SR 15 AND LAMEY BRIDGE ROAD	
WORKING NUMBER	COUNTY: HARRISON
FILE NUMBER	PROJ. NUM.: SP-0022-01(081)
DATE	FILENAME: L.L.TE.01.DGN
DESIGNER	DESIGN TEAM: MICHAEL BAKER GROUP
DATE	DATE: 2015
SHEET NUMBER	4001