

ADDENDUM NO. 1 – JOB 080634

ARKANSAS DEPARTMENT OF TRANSPORTATION

PROGRAM MANAGEMENT DIVISION

LITTLE ROCK, ARKANSAS

June 20, 2024

TO: Eligible Bidders – Job 080634

SUBJECT: Plan and Proposal Documents Changes

The F.A.P. number has been revised on Plan Sheet 1. Also, various electrical and lighting details have been revised. Additionally, multiple supplemental specifications, special provisions, and pay items have been added, removed, or revised as noted on Page 2 of this addendum. The Supplemental Specifications and Special Provisions Listing, Plan Sheets 1, 3, 23, 27, 38, 40, 43 and 44, the Proposal Schedule of Items Pages 1-6, and the EBS file have been revised to reflect these changes. You should substitute the revised sheets into your plan set and proposal documents and consider these revisions when submitting your bid.

ACKNOWLEDGEMENT OF THIS ADDENDUM SHALL BE MADE BY SIGNING BELOW AND SUBMITTING THIS SIGNED FORM TO THE PROGRAM MANAGEMENT DIVISION BY EMAIL AT pmd@ardot.gov OR BY FAX AT (501)569-2623.

Sincerely,



for Erica Adams
Division Engineer
Program Management

Name

Company

Line No.	Item Description	Previous Quantity	Revised Quantity	Unit
0081	Electrical Conductors-In-Conduit (2C/8 A.W.G., E.G.C.)	0	850	L.F.
0082	Electrical Conductors-In-Conduit (2C/10 A.W.G., E.G.C.)	0	1,400	L.F.
0083	Electrical Conductors-In-Conduit (2C/6 A.W.G., E.G.C.)	0	1,200	L.F.
0084	Electrical Conductors For Luminaires	0	630	L.F.
0086	Concrete Pull Box (Type 2 HD)	0	19	Each
0087	LED Roadway Illumination Pole (18,700 Lumens, Decorative, T-Base, 30')	0	14	Each
0088	Pedestal Type Service Point Assembly (100 AMP)	0	1	Each
---	Electrical Conductors-In-Conduit (1C/8 A.W.G.)	1,600	0	L.F.
---	Electrical Conductors-In-Conduit (1C/8 A.W.G., E.G.C.)	350	0	L.F.
---	Electrical Conductors-In-Conduit (1C/10 A.W.G.)	2,200	0	L.F.
---	Electrical Conductors-In-Conduit (1C/10 A.W.G., E.G.C.)	900	0	L.F.
---	Electrical Conductors-In-Conduit (1C/6 A.W.G.)	2,300	0	L.F.
---	Electrical Conductors-In-Conduit (1C/6 A.W.G., E.G.C.)	1,200	0	L.F.
---	Concrete Pull Box (Type Special HD)	19	0	Each
---	Roadway Illumination Pole (1 X 140W LED Luminaire, Breakaway Base, 30')	14	0	Each
---	Service Point Assembly (Underground Secondary Service, Roadway Lighting)	1	0	Each

Added Supplemental Specification:

- 102-3 Prequalification of Bidders

Added Special Provisions:

- Electrical Conductors for Luminaires
- LED Roadway Illumination Pole
- Pedestal Type Service Point Assembly

Revised Special Provisions:

- Concrete Pull Box
- Electrical Conductors-in-Conduit

Removed Special Provisions:

- Roadway Illumination Assembly
- Service Point Assembly (Underground Secondary Service, Roadway Lighting)

Arkansas Department of Transportation
Supplemental Specifications and Special Provisions Listing
State Job Number 080634

The following supplemental specifications and special provisions for this project supplement the standard specifications, edition of 2014. In case of conflict, the supplemental specifications and special provisions shall govern.

ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273	REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273	SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273	SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273	SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273	SUPPLEMENT - WAGE RATE DETERMINATION
JOB SP	CARGO PREFERENCE ACT REQUIREMENTS
JOB SP	GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB SP	DISADVANTAGED BUSINESS ENTERPRISE BIDDER'S RESPONSIBILITIES
JOB SP	PROHIBITION OF CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT
JOB SP	BUY AMERICA - CONSTRUCTION MATERIALS
JOB SP	BIDDING REQUIREMENTS AND CONDITIONS
JOB SP	MANDATORY ELECTRONIC CONTRACT
JOB SP	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB SP	OFF-SITE RESTRAINING CONDITIONS FOR INDIANA AND NORTHERN LONG-EARED BATS
JOB SP	LIQUIDATED DAMAGES PROCEDURE FOR BID LETTINGS
JOB SP	SOIL STABILIZATION
JOB SP	RESTRICTIONS ON THE USE OF RECYCLED ASPHALT PAVEMENT MATERIAL
JOB SP	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
JOB SP	PERCENT AIR VOIDS AND NDESIGN FOR ACHM SURFACE MIX DESIGNS
JOB SP	LONGITUDINAL JOINT DENSITIES FOR ACHM SURFACE COURSES
JOB SP	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB SP	PRICE ADJUSTMENT FOR ASPHALT BINDER
JOB SP	PRICE ADJUSTMENT FOR FUEL
JOB SP	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB SP	WARM MIX ASPHALT
JOB SP	COLD MILLING - COUNTY PROPERTY
JOB SP	LONGITUDINAL TINING
JOB SP	CLASS C FLY ASH IN PORTLAND CEMENT CONCRETE PAVEMENT AND CLASS S(AE) CONCRETE
JOB SP	BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB SP	ELECTRICAL CONDUCTORS FOR LUMINAIRES
JOB SP	ELECTRICAL CONDUCTORS-IN-CONDUIT
JOB SP	BASIC ELECTRICAL REQUIREMENTS

Arkansas Department of Transportation
Supplemental Specifications and Special Provisions Listing
State Job Number 080634

The following supplemental specifications and special provisions for this project supplement the standard specifications, edition of 2014. In case of conflict, the supplemental specifications and special provisions shall govern.

JOB SP	ELECTRICAL DEMOLITION AND RELOCATION WORK
JOB SP	CONCRETE PULL BOX
JOB SP	LED ROADWAY ILLUMINATION POLE
JOB SP	PEDESTAL TYPE SERVICE POINT ASSEMBLY
JOB SP	OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORT
JOB SP	TEXTURED COATING FINISH (CAST-IN PLACE RETAINING WALLS)
JOB SP	SHORING FOR CULVERTS
JOB SP	WATER POLLUTION CONTROL
JOB SP	PARTNERING REQUIREMENTS
JOB SP	STORM WATER POLLUTION PREVENTION PLAN
JOB SP	VALUE ENGINEERING
JOB SP	UTILITY ADJUSTMENTS
SP 108-1	LIQUIDATED DAMAGES
SS 100-3	CONTRACTOR'S LICENSE
SS 100-4	DEPARTMENT NAME CHANGE
SS 102-2	ISSUANCE OF PROPOSALS
SS 102-3	PREQUALIFICATION OF BIDDERS
SS 103-2	CONTACT INFORMATION FOR MOTORIST DAMAGE CLAIMS
SS 105-4	MAINTENANCE DURING CONSTRUCTION
SS 107-2	RESTRAINING CONDITIONS
SS 108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
SS 110-1	PROTECTION OF WATER QUALITY AND WETLANDS
SS 210-1	UNCLASSIFIED EXCAVATION
SS 303-1	AGGREGATE BASE COURSE
SS 306-1	QUALITY CONTROL AND ACCEPTANCE
SS 400-1	TACK COATS
SS 400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
SS 400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
SS 400-6	LIQUID ANTI-STRIP ADDITIVE
SS 400-7	TRACKLESS TACK
SS 404-3	DESIGN OF ASPHALT MIXTURES
SS 409-2	ASPHALT LABORATORY FACILITY
SS 410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
SS 410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
SS 410-4	EVALUATION OF ACHM SUBLOT REPLACEMENT MATERIAL
SS 416-1	RECYCLED ASPHALT PAVEMENT

Arkansas Department of Transportation
Supplemental Specifications and Special Provisions Listing
State Job Number 080634

The following supplemental specifications and special provisions for this project supplement the standard specifications, edition of 2014. In case of conflict, the supplemental specifications and special provisions shall govern.

SS 501-2	CEMENT
SS 502-1	WELDED WIRE REINFORCEMENT
SS 505-1	PORTLAND CEMENT CONCRETE DRIVEWAY
SS 600-2	INCIDENTAL CONSTRUCTION
SS 603-1	LANE CLOSURE NOTIFICATION
SS 604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
SS 604-3	TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES (MASH)
SS 605-1	CONCRETE DITCH PAVING
SS 620-1	MULCH COVER
SS 621-1	FILTER SOCKS
SS 632-1	CONCRETE ISLAND
SS 634-1	CURBING
SS 700-2	TRAFFIC CONTROL FACILITIES
SS 723-1	GENERAL REQUIREMENTS FOR SIGNS
SS 730-1	BREAKAWAY SIGN SUPPORT
SS 800-1	STRUCTURES
SS 802-4	CEMENT
SS 804-2	REINFORCING STEEL FOR STRUCTURES

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

ELECTRICAL CONDUCTORS FOR LUMINAIRES

DESCRIPTION. This item consists of furnishing and installing electrical conductors from the pull box next to the illumination pole to the luminaire as noted on the lighting plans and indicated in the wiring details.

MATERIALS. The electrical conductors shall consist of two conductor cables and grounding, see the plan for wire size. Electrical conductors shall be stranded or solid copper, XHHW-2 or UF with rating of 600 volt, suitable for underground duct installation in THHN wires are suitable for applications up to 90°C (194°F) in dry or wet locations. Electrical conductors shall comply to ASTM Specification B3, B-8, and B-787.

CONSTRUCTION REQUIREMENTS. Splices are allowed at pull boxes, pole bases or as approved by the Engineer. All splices shall be waterproof, and UL Listed for continuous use in submersible installations.

Splices in pull boxes shall be made with a Bus connector, such as "Homac RXL," "NSI Polaris Edge," "Utica Safetysub," or equivalent and approved by the Engineer.

Splices in light poles shall be made with a fused breakaway disconnect.

Drip loops are required at pole base installations. No direct connection from copper to aluminum shall be allowed without a connector rated for the application. Slack cable (3 ft. min.) shall remain at each splice location to allow reconnection.

METHOD OF MEASUREMENT. Electrical Conductors for Luminaires will be measured by the linear foot. Multiple conductors shall be measured together, not measured singularly.

BASIS OF PAYMENT. Work completed and accepted and measured as provided above will be paid for at the contract unit price bid per linear foot for Electrical Conductors for Luminaires of the type and size called for on the plans, which price shall be full compensation for furnishing materials, splicing and connections and for all tools, equipment, labor, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item

Pay Unit

Electrical Conductors for Luminaires

Linear Foot

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

ELECTRICAL CONDUCTORS-IN-CONDUIT

1. **DESCRIPTION.** This item consists of furnishing, installing, and testing copper electrical conductors from point to point as indicated on the plan sheets. The electrical conductors shall be suitable for installation in duct mounted on structures or buried in the ground.
2. **MATERIALS.** Electrical conductors shall consist of cables of the gauge and number of conductors specified on the plan sheets and shall be type USE-2 or UF with cross-linked polyethylene (XLP) insulation, and 600-volt rated. Electrical conductors shall be UL Listed, and shall comply with ASTM B3, B8, B787, and UL Standard 854. Multiple single conductor cables shall not be twisted. Electrical conductors shall be solid or stranded copper unless otherwise approved by the Engineer.

Where specified "With Ground" (WG), included shall be a copper safety ground of either bare copper or green insulated; of not less than two sizes less than the load carrying conductors, whichever is greater.

Where specified Electrical Conductor (E.G.C.), one additional EGC, bare or insulated, also be supplied of the size and quantity shown.

3. **CONSTRUCTION REQUIREMENTS.** The electrical conductors shall be continuously running directly from service points to electrical devices and/or junction boxes without splices being made in the conduits. In addition, the electrical conductors shall pass both MEG Test and Leakage Current Test after installation in the presence of the field inspector. The contractor shall perform tests utilizing test equipment acceptable to the job engineer, and submit reports to the job engineer for validation. The Contractor shall be responsible for all damages caused by improper MEG Test and Leakage Current Test. Any conductor not meeting the minimum acceptable value shall be replaced at Contractor's expense using new conductor. Sample test pages are included in this item. The 30-day test on the system shall not commence until all conductors have been tested with specification and accepted by the job engineer.

All conduit terminations shall be provided with UL Listed bushings or bell end fittings. All conduit installed in pull boxes shall be provided with 90-degree elbows with conduit opening facing skyward. All conduit butt splices shall be UL Listed couplings. All conduit used for directional boring shall be UL Listed for that purpose. Non-metallic conduit shall be stamped, "Dir. Bore" or "Directional Bore".

All conduit joints shall be connected by using UL approved methods only. No internal and external obstructions, such as rivets, screws, and/or any other puncturing method of connections are allowed. The Contractor shall not use a torch for bending or shaping non-metallic conduits.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

ELECTRICAL CONDUCTORS-IN-CONDUIT

Splices are allowed at pull boxes, pole bases, or as approved by the Engineer. All splices shall be waterproof, and UL Listed for continuous use in submersible installations. Splices in pull boxes shall be made with a Bus connector, such as "Homac RXL," "NSI Polaris Edge", "Utilco Safetysub," "Burndy Unitap," or equivalent and approved by the job engineer. Drip loops are required at pole base installations. No direct connection from copper to aluminum shall be allowed without a connector rated for the application. Slack cable (3 ft. min.) shall remain at each splice location to allow reconnection.

4. **METHOD OF MEASUREMENT.** Electrical Conductors-in-Conduit will be measured by the linear foot of circuit. Multiple conductors for a circuit shall not be measured singularly and added together.
5. **BASIS OF PAYMENT.** Work completed and accepted under this item, measured and tested as provided above will be paid for at the contract unit price bid per linear foot for Electrical Conductors-in-Conduit of the "number of conductors" and "size" called for on the plans, which price shall be full compensation for furnishing and installing the electrical conductors in all conduits, junction boxes and pole bases including making all necessary taps and connections to complete the circuits as shown on the plans and as directed by the Engineer, testing along with all equipment, tools, labor, and incidentals required to complete the work.

Payment will be made under:

Pay Item	Pay Unit
Electrical Conductors-in-Conduit (__ C/ __ A.W.G., __ .)	Linear Foot

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

ELECTRICAL CONDUCTORS-IN-CONDUIT

Insulation Resistance Test (MEG Test)

DESCRIPTION. This item describes a testing method for the Insulation Resistance Test ("Test"), also known as, MEG test as called for on the plans. All tests and data recordings must be done in the presence of, and signed by the field inspector. Any deviation from these procedures shall require approval by the Engineer.

MATERIALS. A digital insulation resistance tester ("Tester") is required to perform the test. The Tester shall be able to provide DC test voltage of 500 volts and perform short-time test.

Definitions

Circuit: A circuit is the entire run of conductors from the service point to the end, including splices.

Circuit No.: This is typically the number in a circle on the plans. If no circuit number is present, the Engineer will provide one.

Section: A section is a segment of conductors placed between two poles.

Section No.: This is typically the number in a rectangle on the plans. If no section number is present, the Engineer will provide one.

TESTING PROCEDURE.

Before starting the measurement:

- Do not connect the cable to service. Disconnect all other circuits or devices, as well as any cable accessories and protective end caps, and open the cable at both ends and ensure conductors are isolated from each other.
- Contractor shall be responsible for all damages caused by MEG testing while devices or accessories are still connected. Any conductor not meeting the minimum acceptable value shall be replaced at Contractor's expense using new conductor.
- Only test a cable if the temperature of the conductor is above the dew point. Otherwise, moisture will form on the surface of the insulation and could be absorbed by the cable causing the test to fail.
- Make sure that the conductor surface is free of any material that may be conductive.
- Do not exceed the recommended test voltage of the cable. Otherwise, the conductor insulation can be overstressed, or even damaged. The Contractor shall be responsible for damages caused by improper MEG Test.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

ELECTRICAL CONDUCTORS-IN-CONDUIT

Short-time Test. This test lasts 60 seconds.

For each conductor that is to be tested:

1. Record the following:
 - a. Conductor length
 - b. Ambient temperature
2. Strip back the conductor at each end, as if it were to be connected to the supply and load equipment (remove the jacket, separate the conductors, and strip the end of the conductors of any insulation). The cable must be disconnected from any equipment at both ends. This includes roadway lighting, disconnects, service point, and any other kind of device that may be connected to the conductors.
3. Separate the conductors from each other, and from any ground conductors.
4. Thoroughly clean the exposed conductor ends to remove any dirt or debris. They should also be completely dry at the time of measurement.
5. Apply 500 volts DC for 60 seconds per conductor. Each insulated conductor should be tested separately, and record the reading of resistance in megohms at 60 seconds.

Minimum acceptable insulation resistance for cables rated for 600 volts with respect to length is the following:

Length of Cable (ft)	Min. Acceptable Insulation Resistance (MΩ)
100	16
200	8
300	5.3
400	4
500	3.2
600	2.7
700	2.3
800	2
900	1.8
1000	1.6
1100	1.5
1200	1.3
1300	1.2
1400	1.14
1500	1.07
1600 or greater	1

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

ELECTRICAL CONDUCTORS-IN-CONDUIT

Leakage Current Test

DESCRIPTION. This item describes a testing method for the Leakage Current Test as called for on the plans. All tests and data recordings must be done in the presence of, and signed by the field inspector. Any deviation from these procedures shall require approval by the Engineer. Contractor shall be responsible for all damages caused by improper Leakage Current Test. Any conductor not meeting zero leakage current shall be replaced at Contractor's expense using new conductor.

MATERIALS. A digital current clamp meter ("Meter") is required to perform the test.

TESTING PROCEDURE.

Before starting the measurement:

- Connect the conductors to service. Connect all circuits.
- If circuit includes High-Mast— place High-Mast disconnect in the "off" position.
- If circuit includes Roadway Poles— disconnect breakaway fusible links. Leave EGC grounded. Make safe any exposed ends. Do not allow ends to make contact with anything.
- Lastly, turn on service point.

At the service point—place the Meter, measure, and record whether the leakage current is detected on each conductor on the circuit. Make sure the mating faces of the jaws are protected from damage, kept clean, and closed completely together without an air gap when testing. Avoid twisting the jaws of the Meter.

Minimum acceptable leakage current shall be zero. There is no minimal acceptable leakage current. The presence of leakage current indicates a fault in the wiring. The contractor shall be responsible for location and replacing damaged conductors. A circuit shall not be deemed acceptable until passing the leakage current test.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

CONCRETE PULL BOX

Section 711 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Subsection 711.02 Materials is hereby deleted and the following substituted therefor:

The pull boxes shall be constructed with Portland Cement Concrete reinforced with welded wire or shall be polymer concrete reinforced with heavy weave fiberglass. No fiberglass shall be exposed. All exposed portions of the pull box shall be non-electrically conductive.

The minimum inside dimensions measured across the center of the box (horizontally) just below the lid support lip shall be as follows:

Concrete Pull Box – Type 2 and 2 HD:
11" (280 mm) wide x 21" (530 mm) long

The depth measured from the top of the lid shall be a minimum of 11½" (290 mm).

A non-metal electrically insulated cover shall be provided for each pull box. The covers shall have a skid resistant surface on top and a lifting eye.

The pull box and cover shall be constructed in such a manner that the assembly will support light vehicular traffic. The cover with pull box shall meet or exceed the following test loading:

Type	Load		Load Area	
	pounds	kg	Sq. inch	sq mm
2 HD	7500	3400	20	13,000

Pull box with cover in place shall comply with the National Electric Code for exposed boxes rated at voltages up to 480 VAC.

All heavy-duty concrete pull boxes are to be installed as shown on the plans with an apron of concrete 12" (305 mm) wide and 6" (152 mm) in depth. The concrete shall comply with Section 802 for Class S Concrete. The Department will perform all acceptance sampling and testing at the frequencies shown for the Contractor acceptance testing in Subsection 802.06. Reinforcement consisting of 6" x 6" W1.4 x W1.4 (150 mm x 150 mm MW10 x MW10) welded wire fabric complying with the requirements of Subsection 804.02(b) is required to be placed in the concrete as shown in the plans.

The pull box shall be permanently labeled with "ARDOT", "ELECTRIC" and "ALUMINUM", centered below, the manufacturer's name and model identifier.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

CONCRETE PULL BOX

Stainless steel vandal resistant Penta-head bolts shall be supplied for each pull box. Two Penta-head sockets shall be provided and turned over to Maintenance Authority.

Subsection 711.05 Basis of Payment is hereby deleted and the following substituted therefor:

Work completed and accepted and measured as provided above will be paid for at the contract unit price bid each for Concrete Pull Box of the type specified, which price shall be full compensation for furnishing and installing the pull box; for excavation, backfill, compaction, removal of surplus materials, and replacement of the existing surface; for furnishing and placing the bedding material; for furnishing and placing welded wire fabric and concrete; and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item	Pay Unit
Concrete Pull Box (Type 2 HD)	Each

11-04-2016
 01-20-2017 Rev. 12-09-2018 Rev.
 11-16-2017 Rev. 04-11-2019 Rev.
 09-25-2018 Rev. 01-02-2020 Rev
 04-15-24 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

LED ROADWAY ILLUMINATION POLE

DESCRIPTION. This work consists of constructing and furnishing all materials to ensure a properly operating roadway lighting system according to these specifications and the plans, or as directed by the Engineer.

LIGHTING SYSTEM DESIGN CRITERIA. Roadway/Rest Area lighting system shall meet the illuminance design values, Table 3-5a, in AASHTO *Roadway Lighting Design Guide*, current edition, and ANSI/IES RP-8-22 Recommended Practice: Lighting Roadway and Parking Facilities, current edition.

MATERIALS. (A) Luminaire. Luminaire assemblies with accessories shall be supplied in one style or model number from one manufacturer only. Luminaire's driver shall be mounted inside the luminaire housing. The driver shall have voltage/current overload and short circuit protection.

In addition, luminaire(s) shall meet the following requirements:

- Light Source: Shall be LED. Refer to plan set for more information related to the number of lumens, mounted height, mast arm length, and orientation for each light source.
- Light Distribution: Type II
- Correlated Color Temperature: 4000K +/- 200K
- Color Rendering Index: No less than 70. Mesopic multipliers (i.e., effective luminance factors) shall not be used. All values shall assume photopic visual adaptation.
- Refractor or Lens: UV stabilized optical grade acrylic -or- high-translucent, high-strength heat/shock resistant glass, borosilicate glass (hardened or tempered).
- Operating Temperature Range: -40°C (-40°F) to +40°C (+104°F)

11-04-2016
 01-20-2017 Rev. 12-09-2018 Rev.
 11-16-2017 Rev. 04-11-2019 Rev.
 09-25-2018 Rev. 01-02-2020 Rev
 04-15-24 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

LED ROADWAY ILLUMINATION POLE

- **BUG Rating:** U0, in accordance with Arkansas Shielded Outdoor Lighting Act.
- **RoHS:** Compliant
- **IP Rating:** IP66 or better
- **Surge Protection:** Minimum 10kV/5kA per ANSI C136.2
- **Input Voltage:** 120V-277V or 347V-480V
- **Power Factor:** 90% or higher
- **Design Life:** 100,000 hours to L90, tested in accordance with IES TM21-11
- **Warranty:** Minimum 5 years. LED driver and LED arrays shall be included in the warranty.
- **Accessories:** House-side shield shall be included for residential areas. See plans.
- **Receptacle:** ANSI C136.41 7-pin twist-lock photocell or shorting cap. See plans.
- **Luminaire Housing:** Die-cast aluminum with tool-less entry and fully gasketed. All internal components shall be assembled and pre-wired using quick disconnect or modular electrical connections. Internal components shall be replaceable without special tools.
- **Paint:** Luminaires shall be factory painted to match poles

11-04-2016
01-20-2017 Rev. 12-09-2018 Rev.
11-16-2017 Rev. 04-11-2019 Rev.
09-25-2018 Rev. 01-02-2020 Rev
04-15-24 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

LED ROADWAY ILLUMINATION POLE

(B) Conductors. Conductors for roadway luminaires shall be solid or stranded copper, UL Listed, XHHW-2, manufactured in accordance with ASTM B3, B-8, and B-787. Rated voltage for conductors shall be 600V. Temperature rating shall be 90°C/194°F for wet or dry locations.

(C) Luminaire Poles. Poles and mast arms, if used, shall be cast aluminum. All poles and arms within continuous systems shall be of similar shape, dimension, materials, and color. If top of the pole is exposed, a pole cap shall be provided.

Luminaire poles and hardware, unless superseded by this special provision or the detail sheet(s), shall meet the minimum requirements under the current edition of Standard Specifications for Highway Construction (Standard Specifications), Arkansas Department of Transportation.

- Section 714. "Traffic Signal Mast Arm and Pole with Foundation" of the Standard Specifications shall apply to all units of steel design as well as hardware and foundation requirements for units of other material.
- Section 724. "Overhead, Bridge Mount, and Cantilever Sign Structure" of the Standard Specifications shall apply to poles and mast arms for units of aluminum design.

In addition, all luminaire poles shall meet the following minimum structural requirements:

- Design Specification: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, current edition and Interims Revisions.
- Minimum Structural Requirements: As a minimum, the diameter of the lower end of the shaft shall not be less than 8.0 inches with taper to a diameter of at least 3 inches at the top, or as shown on the plans. Pole shafts shall be a single-piece. Two-pieces, slip-fitted pole shafts will not be allowed.
- Nut Covers: Required for "shoe base" only.
- Hand Hole: Size (Inside Dimension) – 4 inches width x 6 inches height.
- Anchor Bolts: Anchor bolts shall be of sufficient size and strength and meet the requirements of Section 714 of the Standard Specifications.

11-04-2016
01-20-2017 Rev. 12-09-2018 Rev.
11-16-2017 Rev. 04-11-2019 Rev.
09-25-2018 Rev. 01-02-2020 Rev
04-15-24 Rev.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. 080634

LED ROADWAY ILLUMINATION POLE

- Construction Specifications: Standard Specifications for Highway Construction (current edition) with applicable Supplemental Specifications and Special Provisions.
- Base Wind Speed: 90 MPH

CONSTRUCTION. (A) General. Prior to construction, the Contractor shall provide documentation to the Project Engineer, to ensure Arkansas State Codes (§17-28-101 et seq. and §20-31-101 et seq.) are met. The documentation shall include:

- (1) Electricians' license information and expiration date.
- (2) The ratio of licensed-electrician-to-apprentice-electricians.
- (3) Printed search result of licensed electricians from Arkansas Department of Labor Electrician Licensee Directory (<https://www.ark.org/labor/electrician/search.php>).

All licenses shall be valid and current.

The Contractor shall contact the local utility companies and/or Arkansas One Call to determine the location of underground utilities in areas where new foundations are to be constructed. The Contractor shall maintain the utility location markings until they are no longer necessary.

The Contractor shall be responsible for all incidental damages during construction at no additional cost to the Department.

If existing underground conduit is to be incorporated into a new system, clean it with a mandrel or cylindrical wire brush and clean with compressed air.

Splices are allowed only at pull boxes and pole bases. All splices shall be made by using UL Listed or UL Certified products. All splices shall be watertight.

Degrees of tilt for luminaires shall be zero (0) to comply with BUG rating of U0 and Arkansas Shielded Outdoor Lighting Act.

(B) Luminaire Poles. All luminaire poles shall be placed according to pole orientations shown on the plans, or as directed by the Engineer.

Aluminum alloy surfaces contacting concrete foundations and steel surfaces shall be coated with or bedded in an aluminum caulking compound, such as alumilastic or other suitable material approved by the Engineer.

11-04-2016
 01-20-2017 Rev. 12-09-2018 Rev.
 11-16-2017 Rev. 04-11-2019 Rev.
 09-25-2018 Rev. 01-02-2020 Rev
 04-15-24 Rev.

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JOB NO. 080634

LED ROADWAY ILLUMINATION POLE

Hand holes shall be on the opposite side of the traveled lanes. Mast arms, if used, shall be included with the poles.

Cost of painting, powder coating, or anodization will not be paid for directly, and shall be considered subsidiary to the unit price bid for LED Roadway Illumination Pole. Subsequent to erection, any damaged galvanized coating or paint shall be repaired according to Standard Specification Section 807.88 or Section 638, as appropriate.

(C) Breakaway Transformer Base. Where designated in the Unit Item as a "T-Base", a breakaway transformer base shall be furnished and installed as per manufacturer's recommendation. Transformer base shall be permanent mold casting of Aluminum Alloy 359-T6 or equal as specified by the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. Bases shall be a minimum of 16-inches high and square in cross section. The dimensions shall be approximately those dimensions shown on the plans. Any change in dimension, approved by the Engineer, shall not lessen the design load strength of the base.

A detail sheet illustrating the proper installation of the T-Base shall be supplied to the Department.

A written certification shall be supplied to the Department that the T-Base meets the minimum requirements for AAHSTO breakaway specifications.

In lieu of T-Base, breakaway couplings are allowed with the Engineer's approval.

(D) Pole foundations. Pole foundations for luminaire poles shall be constructed in firm earth to the minimum size and depth shown on the plans. The location of foundations shall be as shown on the plans, or as directed by the Engineer. Foundations shall be placed monolithically and have 1" chamfer at the top. Concrete shall be constructed according to Standard Specifications, Section 802.

(E) Luminaire Wind Loading. Design shall support the maximum luminaire properties for the pole type specified for attachment of the following luminaire(s):

LED Decorative Head

- Effective Projected Area (EPA): less than or equal to 0.9 sq. ft.
- Weight: less than or equal to 56lbs.

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Luminaire Arm (where required)

- All arms shall be single member (no truss)
- Length: 6 ft., see plans

(F) Wiring. Two (2) 12 AWG copper with one (1) 12 AWG EGC conductors shall be used for luminaires. Conductors shall run through the shaft to the pole base. Approved watertight breakaway disconnect, dual rated for copper and aluminum connections, shall be used to terminate the wires in the pole base, and from the pole base to the splices in the pull box. The current carrying conductor shall be fused. The EGC shall be neutral/dummy fused. All in-line disconnects shall be located in the pole base.

Waterproof breakaways disconnect and URD multi-port connectors shall be a mechanical "Homac Flood-seal", "Eaton Bussmann," or approved equivalent.

All conductors for luminaire and wiring requirements for poles with luminaires shall be considered subsidiary to the special provision LED Roadway Illumination Pole.

(G) Miscellaneous. A detail sheet illustrating the proper installation of the transformer base shall be supplied to the Department.

A written certification shall be supplied to the Department that the transformer base meets the minimum requirements for AASHTO breakaway specifications.

Poles not requiring T-Base, or non-breakaway base shall be designated in the Unit Item as "Shoe Base".

Barrier mounted poles shall be designated in the Unit Item as "Barrier Mounted".

(H) Test Requirements and Quality Assurance.

A. Meg and Leakage Test.

Where specified in the contract, contractor shall perform the Meg Test and Leakage Test in accordance contract specifications. This will be paid for the Electrical Conductors in Conduit pay item.

B. 14-Day Burn-Out Test.

Contractor shall conduct minimum 14-day burn-out test for the complete lighting system. The Contractor shall be responsible to correct, and if needed, replace any malfunctioning

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LED ROADWAY ILLUMINATION POLE

equipment during the 14-day burn out test at no cost to the Department. The 14-day burn-out test shall be restarted in the event of any malfunctioning equipment.

C. 30-Day Performance Test.

Contractor shall perform 30-day performance test of the lighting system. The lighting system shall be functioning as the normal operations it intended for the system.

The Contractor shall be responsible to correct, and if needed, replace any malfunctioning equipment during the 30-day performance test at no cost to the Department. The 30-day performance test shall be restarted in the event of any malfunctioning equipment. The 30-day performance test shall not start prior to the completion and approval of the 14-day burn-out test.

D. 6-Month Guarantee period.

Contractor shall guarantee satisfactory in-service operation of the mechanical and electrical equipment and related components for a period of 6 months following completion of the 30-day performance test. Contractor to maintain the lighting system for the 6-month guarantee period. The Contractor shall be responsible to correct, and if needed, replace any malfunctioning equipment during performing test at no cost to the Department. The 6-month guarantee period shall be restarted in the event of any malfunctioning equipment. The 6-month guarantee period shall not start prior to the completion and approval of the 30-day performance test.

E. Warranty documents.

The contractor shall provide and transfer 5-year manufacturer's warranty to the maintenance authority (e.g., County, or City) at the end of the 6-month guarantee period.

SUBMITTALS. The Contractor shall submit all manufacturers' parts list, specification sheets, ordering information, shop drawings, IES file of luminaire, luminaire reports: LM-79, LM-80, and LM-21 (L70), released within the last five years, information on all manufacturers' warranty and guarantee information, and certifications. All submittals shall be legible. The Contractor shall clearly state and highlight all requirements mentioned in this Special Provision.

METHOD OF MEASUREMENT. Work completed and accepted under this item shall be measured by the unit. One unit shall consist of luminaire; mast arm, where required; illumination pole; pole foundation; conductors; breakaway disconnect; fuses; and all other hardware required for installing the roadway illumination pole.

"Lumen" shall refer to the lumen output of luminaire, "Luminaire" shall refer to the shape of luminaire used (e.g., cobra head, shoebox, or acorn). "Base" refers to T-Base, or Shoe Base

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meeting the requirements of this Special Provision. Height shall refer to the mounting height of the luminaire including base.

BASIS OF PAYMENT. Work completed, accepted, and measured as provided above will be paid for at the contract unit price bid per each for LED Roadway Illumination Pole, which price shall be full compensation for erecting, furnishing, and installing the luminaire, mast arm (where required), pole, T-Base (where required), pole foundation and ground rod with grounding electrode; for connection of electrical components, including waterproof breakaway disconnect; for excavation, backfill, compaction, and removal of surplus material; and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Payment will be made under:

Pay Item	Pay Unit
LED Roadway Illumination Pole (18,700 Lumens, Decorative, T-Base, 30')	Each

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PEDESTAL TYPE SERVICE POINT ASSEMBLY

DESCRIPTION. This item consists of furnishing and installing a pedestal type service point assembly, pedestal concrete foundations, ground rods, breakers, photoelectric cell switch, wire, and miscellaneous fittings at locations designated on the plans and in accordance with the latest version of the National Electrical Code.

All construction and wiring shall be in compliance with local electrical codes per NEC current edition. The Contractor shall perform all necessary liaison with local power companies in order to ascertain such specific requirements as the power company may apply to each location.

MATERIAL and CONSTRUCTION REQUIREMENTS

The pedestal type service point shall be constructed as shown in the construction plans and details. The enclosure shall be NEMA 3R construction with expandable load centers to allow for future expansion. The pedestal type service point assembly shall be cold sequenced (have a disconnecting means on the utility side of the meter). If required by the local utility it is the contractor s responsibility to install the conduit from the pedestal type service point to the location required by the utility to connect to the local utility secondary conductors. The pedestal type service point and secondary disconnect shall meet EUSERC 308 utility standards. All external hardware such as (screws, bolts, hinges, handles, hasps and sealing screws) shall be stainless steel. The unit shall be UL listed as a industrial control panel (UL 508).

Amperage - The service point assembly shall be rated for 100 Amps and be supplied with a 100 Amp 2-pole main breaker.

System Voltage - The system voltage shall be 120/240, single phase, three wire four jaw.

Distribution interior - The distribution interiors shall consist of a switched panel board with five (5) circuits. The circuit breaker shall be magnetic trip only and sized in accordance with the plans. All enclosures and circuit breakers shall be rated for 240 V.A.C. or greater, unless otherwise designated on the plans sheets. The contactor amperage shall be rated at a minimum of 100 amps. The service point shall have a photoelectric cell for controlled loads. The unit shall have 22K ampere interrupting capacity. The pedestal type service point assembly shall have a H. O. A. (Hand Off Auto) switch. The distribution interior shall include lighting arrestors of a type approved by the Engineer.

Finish - The pedestal type service point assembly cabinet finish shall be anodized aluminum.

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PEDESTAL TYPE SERVICE POINT ASSEMBLY

Size 100 Amp Service Pedestal - The enclosure size shall be 16" x 17" x 48" with ringless meter socket or the meter socket required by the utility (Milbank SL series, Tesco Tescoflex series, Eaton CMP series, or approved equal).

Base - The pedestal shall be installed on a concrete pad with anchor bolt kit installed as recommended by the manufacture with a minimum height of 18" above ground level at a location as shown in the plans. The pad shall be of the dimensions as shown in the detail sheet.

Contractor shall install a 5/8" x 10' copper ground rod in the first and last pull box and are subsidiary to pay item service point assembly.

METHOD OF MEASUREMENTS. Work completed and accepted items will be measured by the unit.

BASIS OF PAYMENT. Work completed and accepted and measured as provided above will be paid for at the contract unit price bid each for Pedestal Type Service Point Assembly for the number of circuits, size and amperage specified which price shall be full compensation for furnishing and installing enclosures(s), circuit breakers(s), main breaker, distribution panel, conduit, concrete pad with anchor bolts, conduit fittings, wire and ground rod; for testing the service point assembly; and for all materials, equipment, tools labor and incidentals necessary to complete the work.

Payment will be made under:

Pay Item	Pay Unit
Pedestal Type Service Point Assembly (100 AMP)	Each

**ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
PREQUALIFICATION OF BIDDERS**

Section 102 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following paragraph has been added to **Subsection 102.01**:

A contractor with common officers/owners/partners of any firm, partnerships, joint ventures, or corporations that is seeking prequalification, has been prequalified, or has entered into a previous or current contract with the Commission may have the prequalification denied, limited, or revoked for the reasons listed in Subsection 102.04(a)-(m).

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Schedule of Items

State Job No.: 080634

Date Estimated: 4/30/2024

Job Name: HWY. 64/HOGAN LN. ROUNDABOUT (CONWAY) (S)

Date Revised: 6/10/2024

Federal Aid Project: CRTLC-STPC-STPLC-9095(40)

Line Number	Item Code and Description	Estimated Quantity	Unit Bid Price	Price Extension
Section 01 - PROPOSAL ITEMS				
0001	201 - CLEARING	18.000 STA		
0002	201 - GRUBBING	18.000 STA		
0003	202 - REMOVAL AND DISPOSAL OF CURB AND GUTTER	809.000 LF		
0004	202 - REMOVAL AND DISPOSAL OF FENCE	266.000 LF		
0005	202 - REMOVAL AND DISPOSAL OF DROP INLETS	3.000 EACH		
0006	202 - REMOVAL AND DISPOSAL OF PIPE CULVERTS	5.000 EACH		
0007	202 - REMOVAL AND DISPOSAL OF HEADWALLS	5.000 EACH		
0008	202 - REMOVAL AND DISPOSAL OF SIGNS	9.000 EACH		
0009	SP&202 - REMOVAL AND DISPOSAL OF LUMINAIRE POLE AND FOUNDATION	2.000 EACH		
0010	SS&206 - FLOWABLE SELECT MATERIAL	11.000 CUYD		
0011	SPSS210 - UNCLASSIFIED EXCAVATION	15,731.000 CUYD		
0012	SP&210 - COMPACTED EMBANKMENT	8,592.000 CUYD		
0013	SP&210 - SOIL STABILIZATION	100.000 TON		
0014	SPSS303 - AGGREGATE BASE COURSE (CLASS 7)	1,877.000 TON		
0015	SPSS309 - PORTLAND CEMENT CONCRETE BASE (5" UNIFORM THICKNESS)	189.000 SQYD		
0016	SPSS309 - PORTLAND CEMENT CONCRETE BASE (10" UNIFORM THICKNESS)	733.000 SQYD		
0017	SS&401 - TACK COAT	1,646.000 GAL		
0018	SPSS405 - MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2")	1,269.000 TON		
0019	SPSS405 - ASPHALT BINDER (PG 64-22) IN ACHM BASE COURSE (1 1/2") (MINIMUM BID \$120.00)	57.000 TON		
0020	SPSS406 - MINERAL AGGREGATE IN ACHM BINDER COURSE (1")	652.000 TON		
0021	SPSS406 - ASPHALT BINDER (PG 64-22) IN ACHM BINDER COURSE (1") (MINIMUM BID \$120.00)	31.000 TON		
0022	SPSS407 - MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")	3,148.000 TON		

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Line Number	Item Code and Description	Estimated Quantity	Unit Bid Price	Price Extension
0023	SPSS407 - ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8") (MINIMUM BID \$120.00)	1.000 TON		
0024	SPSS407 - ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (3/8") (MINIMUM BID \$120.00)	210.000 TON		
0025	SP&412 - COLD MILLING ASPHALT PAVEMENT	2,359.000 SQYD		
0026	SPSS414 - ASPHALT CONCRETE PATCHING FOR MAINTENANCE OF TRAFFIC	10.000 TON		
0027	SPSS501 - PORTLAND CEMENT CONCRETE PAVEMENT (11" UNIFORM THICKNESS)	536.000 SQYD		
0028	SPSS505 - PORTLAND CEMENT CONCRETE DRIVEWAY	193.770 SQYD		
0030	SP&602 - FURNISHING FIELD OFFICE	1.000 EACH		
0031	SS&603 - MAINTENANCE OF TRAFFIC	1.000 L.S.		
0032	SS&604 - SIGNS	257.000 SQFT		
0033	SS&604 - TRAFFIC DRUMS	174.000 EACH		
0034	604 - CONSTRUCTION PAVEMENT MARKINGS	9,884.000 LF		
0035	604 - CONSTRUCTION PAVEMENT MARKINGS (WORDS)	1.000 EACH		
0036	604 - CONSTRUCTION PAVEMENT MARKINGS (ARROWS)	1.000 EACH		
0037	604 - REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS	1,182.000 LF		
0038	SS&604 - VERTICAL PANELS	20.000 EACH		
0039	SPSS605 - CONCRETE DITCH PAVING (TYPE B)	721.000 SQYD		
0040	SS&606 - 18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	140.000 LF		
0041	SS&606 - 24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	7.000 LF		
0042	SS&606 - 30" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	122.000 LF		
0043	SS&606 - 36" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	67.000 LF		
0044	SS&606 - 42" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	105.000 LF		
0045	SS&606 - 18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	1.000 EACH		

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Line Number	Item Code and Description	Estimated Quantity	Unit Bid Price	Price Extension
0046	SS&606 - 24" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	1.000 EACH		
0047	SS&606 - 30" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	3.000 EACH		
0048	SS&606 - 36" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	2.000 EACH		
0049	SS&606 - 42" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	2.000 EACH		
0050	SS&606 - SELECTED PIPE BEDDING	210.000 CUYD		
0051	SS&609 - DROP INLETS (TYPE C)	3.000 EACH		
0052	SS&609 - DROP INLETS (TYPE E)	1.000 EACH		
0053	SS&609 - DROP INLETS (TYPE MO)	19.000 EACH		
0054	SS&609 - JUNCTION BOXES (TYPE E)	2.000 EACH		
0055	SS&609 - DROP INLET EXTENSIONS (4')	12.000 EACH		
0056	SS&609 - DROP INLET EXTENSIONS (8')	1.000 EACH		
0057	SS&615 - PAVEMENT REPAIR OVER CULVERTS (ASPHALT)	101.000 TON		
0058	SS&619 - WIRE FENCE (TYPE A)	203.000 LF		
0059	620 - LIME	8.000 TON		
0060	620 - SEEDING	3.970 ACRE		
0061	SS&620 - MULCH COVER	8.740 ACRE		
0062	620 - WATER	558.100 MGAL		
0063	621 - TEMPORARY SEEDING	4.770 ACRE		
0064	621 - SILT FENCE	1,772.000 LF		
0065	621 - SAND BAG DITCH CHECKS	760.000 BAG		
0066	621 - DROP INLET SILT FENCE	100.000 LF		
0067	621 - SEDIMENT BASIN	100.000 CUYD		
0068	621 - OBLITERATION OF SEDIMENT BASIN	100.000 CUYD		
0069	621 - SEDIMENT REMOVAL AND DISPOSAL	251.000 CUYD		
0070	621 - ROCK DITCH CHECKS	78.000 CUYD		
0071	SS&621 - FILTER SOCK (18")	675.000 LF		
0072	623 - SECOND SEEDING APPLICATION	3.970 ACRE		
0073	624 - SOLID SODDING	4,440.000 SQYD		
0074	626 - EROSION CONTROL MATTING (CLASS 3)	941.000 SQYD		
0075	SPSS632 - CONCRETE ISLAND	957.000 SQYD		

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Line Number	Item Code and Description	Estimated Quantity	Unit Bid Price	Price Extension
0076	SS&634 - CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")	3,020.000 LF		
0077	SS&634 - CONCRETE COMBINATION CURB AND GUTTER (TYPE E-1) (2' 0")	440.000 LF		
0078	635 - ROADWAY CONSTRUCTION CONTROL	1.000 L.S.		
0079	637 - MAILBOXES	1.000 EACH		
0080	637 - MAILBOX SUPPORTS (SINGLE)	1.000 EACH		
0081	SP - ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/8 A.W.G., E.G.C.)	850.000 LF		
0082	SP - ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/10 A.W.G., E.G.C.)	1,400.000 LF		
0083	SP - ELECTRICAL CONDUCTORS-IN-CONDUIT (2C/6 A.W.G.,E.G.C.)	1,200.000 LF		
0084	SP - ELECTRICAL CONDUCTORS FOR LUMINAIRES	630.000 LF		
0085	710 - NON-METALLIC CONDUIT (2")	2,300.000 LF		
0086	SPSS711 - CONCRETE PULL BOX (TYPE 2 HD)	19.000 EACH		
0087	SP - LED ROADWAY ILLUMINATION POLE (18,700 LUMENS, DECORATIVE, T-BASE, 30')	14.000 EACH		
0088	SP - PEDESTAL TYPE SERVICE POINT ASSEMBLY (100 AMP)	1.000 EACH		
0089	718 - REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")	119.000 LF		
0090	718 - REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (12")	1,505.000 LF		
0091	719 - THERMOPLASTIC PAVEMENT MARKING WHITE (6")	1,167.000 LF		
0092	719 - THERMOPLASTIC PAVEMENT MARKING WHITE (12")	31.000 LF		
0093	719 - THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	2,991.000 LF		
0094	719 - THERMOPLASTIC PAVEMENT MARKING YELLOW (8")	1,626.000 LF		
0095	719 - THERMOPLASTIC PAVEMENT MARKING (YIELD LINE)	51.000 LF		
0096	719 - THERMOPLASTIC PAVEMENT MARKING (WORDS)	4.000 EACH		
0097	719 - THERMOPLASTIC PAVEMENT MARKING (ARROWS)	2.000 EACH		

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Line Number	Item Code and Description	Estimated Quantity	Unit Bid Price	Price Extension
0098	719 - THERMOPLASTIC PAVEMENT MARKING (BIKE EMBLEMS)	1.000 EACH		
0099	721 - RAISED PAVEMENT MARKERS (TYPE II)	35.000 EACH		
0100	SS&725 - GUIDE SIGN-ROADSIDE MOUNTED (DEMOUNTABLE LEGEND)	85.000 SQFT		
0101	SS&726 - STANDARD SIGN	176.000 SQFT		
0102	SS&730 - BREAKAWAY SIGN SUPPORT (TYPE G-2)	698.000 LB		
0103	SP - OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G-1)	15.000 EACH		
0104	SP - OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-2)	3.000 EACH		
0105	SP - OMNI-DIRECTIONAL BREAKAWAY SIGN SUPPORTS (TYPE G2-3)	3.000 EACH		
0106	801 - UNCLASSIFIED EXCAVATION FOR STRUCTURES-ROADWAY	104.000 CUYD		
0107	SPSS802 - CLASS S CONCRETE-ROADWAY	30.910 CUYD		
0108	SP - TEXTURED COATING FINISH	42.000 SQYD		
0109	SS&804 - REINFORCING STEEL-ROADWAY (GRADE 60)	3,887.000 LB		
0110	SS&816 - FILTER BLANKET	78.000 SQYD		
0111	SS&816 - DUMPED RIPRAP	70.000 CUYD		

Section 01 Total: _____

Section 02 - 18" PIPE CULVERTS ALTERNATE - BID ONE ITEM ONLY

0112 AO - 1	SS&606 - 18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	1,304.000 LF		
0113 AO - 2	SS&606 - 18" SMOOTH LINED POLYMER PRECOATED METALLIC COATED CORRUGATED STEEL PIPE	1,304.000 LF		

Section 02 Total: _____

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Line Number	Item Code and Description	Estimated Quantity		Unit Bid Price	Price Extension
Section 03 - 24" PIPE CULVERTS ALTERNATE - BID ONE ITEM ONLY					
0114	SS&606 - 24" REINFORCED CONCRETE PIPE	384.000	LF	_____	_____
B0 - 1	CULVERTS (CLASS III)				
0115	SS&606 - 24" SMOOTH LINED POLYMER	384.000	LF	_____	_____
B0 - 2	PRECOATED METALLIC COATED CORRUGATED STEEL PIPE				
				Section 03 Total:	_____
Section 04 - 30" PIPE CULVERTS ALTERNATE - BID ONE ITEM ONLY					
0116	SS&606 - 30" REINFORCED CONCRETE PIPE	430.000	LF	_____	_____
CO - 1	CULVERTS (CLASS III)				
0117	SS&606 - 30" SMOOTH LINED POLYMER	430.000	LF	_____	_____
CO - 2	PRECOATED METALLIC COATED CORRUGATED STEEL PIPE				
				Section 04 Total:	_____
				Subtotal:	_____
0029	601 - MOBILIZATION (UNIT BID AMOUNT MAY NOT EXCEED 5% OF SUBTOTAL)	1.000	L.S.	_____	_____
				Bid Total:	_____