

APPENDIX A

SPECIAL PROVISION
Specifications of Work to Be Performed
For
ELECTRICAL SIGNAL & LIGHTING MAINTENANCE SERVICES
STATEWIDE

Contractor _____

Bidders must submit the following with their price proposal:

1. a statement indicating their ability to respond in a timely manner (no more than 1 page) and
2. brief overview of the Contractor's staff and their qualifications (no more than 2 pages).

The bidder only needs to bid on those items they are capable of installing and for areas within their capabilities of responding to.

If the submittal fails to meet the criteria above, the proposal will be rejected.

Item	Unit	<u>Price</u>
SIGNAL INDICATIONS		
12 inch Bi-model Yellow/Green Arrow LED	each	
12 inch Red Arrow LED	each	
12" inch Yellow Arrow LED	each	
12" inch Green Arrow LED	each	
12" inch Red Ball LED	each	
12" inch Yellow Ball LED	each	
12 inch Bi-model Yellow/Green Arrow LED	each	
12 inch Red Arrow LED	each	
12" inch Green Ball LED	each	
8" inch Red Ball LED	each	
8" inch Yellow Ball LED	each	
8" inch Green Ball LED	each	

SIGNAL AND BEACON COMPONENTS		
TS-2 Type 1 Controller	each	
TS-2 Type 2 Controller	each	
6 foot by 40 foot quadrapole inductance loop (with IMSA Spec 51-5 loop wire with tube jacket)	each	
6 foot by 6 foot inductance loop (with IMSA Spec 51-5 loop wire with tube jacket)	each	
Traffic cam 8mm with clickit interface	each	
Microwave detector Type TC20	each	
Microwave detector Type TC26	each	
Signal Housing for 12" signal head	each	
Microwave detector presence Type	each	
Signal cable direct earth burial (12 AWG) 4 conductor	Linear Foot	
Signal cable direct earth burial (12 AWG) 7 conductor	Linear Foot	
Signal cable direct earth burial (12 AWG) 12 conductor	Linear Foot	
Self supporting aerial cable (12 AWG) 5 conductor	Linear Foot	
Self supporting aerial cable (12 AWG) 7 conductor	Linear Foot	
Self supporting aerial cable (12 AWG) 12 conductor	Linear Foot	
Communication cable (19AWG 12 pair) IMSA Spec 59-2 and 60-2	Linear Foot	
Accuwave LX150	each	
Wavetronics matrix which includes:	Lump sum	

WX-SS-225 Matrix Sensor WX-SS-611 Sensor Mount WX-SS-704-20 20' Sensor Cable with Connector WX-SS-705 Sensor Cable WX-SS-710 In Line Terminal Strip Junction Box WX-SS-B03-0004 Controller Cabinet Backplate for 2 Sensors WX-SS-B03-0005 Controller Cabinet Backplate for 4 Sensors WX-CLK-112 2-Channel Rack Card WX-CLK-114 4-Channel Rack Card WX-CLK-421 Bluetooth to Serial Converter Module		
Advance Dilemma Zone Detection which includes: WX-SS-225-V Advance Sensor WX-SS-611 Sensor Mount WX-SS-704-20 20' Sensor Cable with Connector WX-SS-705 Sensor Cable WX-SS-710 In Line Terminal Strip Junction Box WX-SS-B03-0004 Controller Cabinet Backplate for 2 Sensors WX-SS-B03-0005 Controller Cabinet Backplate for 4 Sensors WX-CLK-112 2-Channel Rack Card WX-CLK-114 4-Channel Rack Card WX-CLK-421 Bluetooth to Serial Converter Module	Lump sum	
Battery cabinet type P216	each	
Controller Cabinet Type M	each	
Controller Cabinet Type P	each	
Controller Cabinet Type F	each	
Controller Cabinet Type M (with back panel)	each	
Controller Cabinet Type P (with back panel)	each	
Controller Cabinet Type F (with back panel)	each	
Malfunction Management Unit	each	
NEMA Conflict Monitor 12 Channel	each	
Dual Indicator Load switches	each	

Loop amplifiers (2 channel) rack mounted	each	
Loop amplifiers (Single channel) shelf mounted	each	
Span wire (5/16 inch)	Linear Foot	
Span wire mount bracket	each	
Tether wire (1/4 inch)	Linear Foot	
Tether Clamp Assembly	each	
Strand vise (5/16 inch)	each	
goosenecks	each	
Back plates for 3-section heads	each	
Back plates for 4-section heads	each	
Back plates for 5-section heads	each	
Astro-bracket for 5-section head	each	
Astro-bracket for 5-section head	each	
Flash transfer relay (35 amps)	each	
Mercury relays (30 amps)	each	
Line filters (30 amps)	each	
Solar panel (45 watt) with mounting brackets	each	
Flash transfer relays	each	
Loop amp rack mount	each	
Loop amp shelf mount	each	
Microwave detectors	each	
Pedestrian Push Button	each	
Audible ped button only	each	
Audible ped system – includes power supply, ped button, bracket and speaker	each	
Audible ped chirper	each	
Bimodal Ped indication	each	
Bimodal countdown ped indication	each	
Pedestrian Heads (18 inch LED)	each	

Pedestrian Heads (18 inch LED countdown)	each	
5 pin flasher	each	
Pedestal Poles (10 foot)	each	
POLES AND FOUNDATIONS		
40 foot aluminum light pole	each	
Wood poles 40 foot with guys	each	
Wood poles 45 foot with guys	each	
18" Concrete Foundation	each	
24" Concrete Foundation	each	
30" Concrete Foundation	each	
36" Concrete Foundation	each	
Manitoba Safety T-base or approved equal	each	
Frangible Coupling Breakaway Transformer Base	each	
LIGHTING AND WIRING		
Pre-wired Conduit #10 wire (3 conductor)	Linear Foot	
Pre-wired Conduit #8 wire (3 conductor)	Linear Foot	
Pre-wired Conduit #6 wire (3 conductor)	Linear Foot	
Pre-wired Conduit #3 wire (3 conductor)	Linear Foot	
Pre-wired Conduit #2 wire (3 conductor)	Linear Foot	
Pre-wired Conduit #1 wire (3 conductor)	Linear Foot	
PVC Schedule 40	Linear Foot	
PVC Schedule 80	Linear Foot	
Directional Boring	Linear Foot	
Junction Box (23,000 lb load rating, see MDOT Standard	each	

Details)		
Light fixture (Mongoose Type) full IES cutoff for 150 watt high pressure sodium	each	
Light fixture (Mongoose Type) full IES cutoff for 250 watt high pressure sodium	each	
Light fixture (Mongoose Type) full IES cutoff for 150 watt metal Halide	each	
Light fixture (Mongoose Type) full IES cutoff for 250 watt Metal Halide	each	
Light fixture (Cobrahead Type) full IES cutoff for 150 watt high pressure sodium	each	
Light fixture Cobrahead Type) full IES cutoff for 250 watt high pressure sodium	each	
Light fixture (Cobrahead Type) full IES cutoff for 150 watt metal Halide	each	
Light fixture Cobrahead Type) full IES cutoff for 250 watt Metal Halide	each	
Bracket arms for light poles	each	
480 volt 100 amp lighting service on pole with lighting contactor and twist lock photocell	each	
480 volt lighting service with 50 amp breaker	Each	
250 Watt Metal Halide Bulb	each	
150 Watt Metal Halide Bulb	each	
250 Watt High Pressure Sodium Bulb (IES distribution Type 2)	each	
250 Watt High Pressure Sodium Bulb (IES distribution Type 3)	each	
150 Watt High Pressure Sodium Bulb (IES distribution Type 2)	each	
150 Watt High Pressure	each	

Sodium Bulb (IES distribution Type 3)		
Light fixture LEDG 120 35 5K ah g L3. Holophane led roadway fixture to replace 150 watt high pressure sodium 480 volt type 3 fixtures	each	
Light fixture LEDG 120 35 5K AS ah g L2. Holophane led roadway fixture to replace 150 watt high pressure sodium 480 volt type 2 fixtures	each	
Light fixture LSR4-CW- R3(480)2B-GR-. Lighting Science roadway fixture led to replace 150 watt high pressure sodium 480 volt fixture	each	
Light fixture OVHB04LEDE8SL2 LED Cobrahead Cooper roadway fixture led to replace 150 watt 480 volt high pressure sodium Type II	each	
Global tech led gtrhb-4-2-2- 1-nw led high mast retrofit to replace 1 1000 watt 480 volt ballast and light assembly	each	
Light fixture LEDG 120 35 5K AS g L3 el. Holophane led roadway fixture to replace 150 watt high pressure sodium 120-277 volt type 3 fixtures	each	
Light fixture LEDG 120 35 5K AS g L2 el. Holophane led roadway fixture to replace 150 watt high pressure sodium 120-277 volt type 2 fixtures	each	
Dual breakaway fuse kits for highway lighting including fuses	each	

TRAFFIC CONTROL		
Traffic Control for 4 way intersection (Including signs, drums, cones)	Lump sum	
Traffic Control for 3 way intersection (Including signs, drums, cones)	Lump sum	
Traffic Control for Interstate Shoulder closure (Including signs, drums, cones)	Lump sum	
Traffic Control for Interstate lane closure (Including signs, drums, cones)	Lump sum	
MISCELLANEOUS ELECTRICAL, TIME AND TRAVEL		
Kistler "Lineas" sensors, 2 meter with 100 meter lead cable, Including grout to install and installation per sensor	each	
Hourly Labor (for trouble shooting)	hour	
Flagger	hour	
Travel Time to Region 1 (time to travel to and from any site in the region, includes time for an electrician to travel both ways and the cost of bucket truck, including fuel)	LS	
Travel Time to Region 2 (time to travel to and from any site in the region, includes time for an electrician to travel both ways and the cost of bucket truck, including fuel)	LS	
Travel Time to Region 3 (time to travel to and from any site in the region, includes time for an electrician to travel both	LS	

ways and the cost of bucket truck, including fuel)		
Travel Time to Region 4 (time to travel to and from any site in the region, includes time for an electrician to travel both ways and the cost of bucket truck, including fuel)	LS	
Travel Time to Region 5 (time to travel to and from any site in the region, includes time for an electrician to travel both ways and the cost of bucket truck, including fuel)	LS	

Regions 1 thru 5 are as shown on the attached map, for a list of towns in a region, please contact Stephen Landry at Stephen.landry@maine.gov and one will be sent to you electronically.