



# Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
 ONE CAPITOL HILL  
 PROVIDENCE RI 02908

**CREATION DATE :** 14-FEB-12  
**BID NUMBER:** 7449486  
**TITLE:** ITS EQUIPMENT MAINTENANCE AND REPAIR - DOT  
**BLANKET START :** 01-MAR-12  
**BLANKET END :** 28-FEB-15  
**BID CLOSING DATE AND TIME:**14-MAR-2012 11:30:00

**BUYER:** Hill, Lisa  
**PHONE #:** 401-574-8118

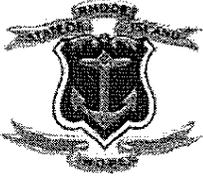
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 DOT ACCOUNTS PAYABLE  
 TWO CAPITOL HILL, RM 243  
 SMITH ST  
 PROVIDENCE, RI 02903  
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 DOT TRAFFIC MANAGEMENT CENTER  
 TWO CAPITOL HILL, RM 126  
 PROVIDENCE, RI 02908  
 US

Requisition Number: 1255852

Line	Description	Quantity	Unit	Unit Price	Total
1	THERE WILL BE A PRE-BID CONFERENCE HELD AS FOLLOWS: DATE: MARCH 2 2012 TIME: 9:00 A.M. LOCATION: DEPARTMENT OF TRANSPORTATION TRAFFIC MANAGEMENT CENTER 2 CAPITOL HILL, ROOM 126 PROVIDENCE RI DOT; FY12; ITEM #937.9901; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 1	1 00	Each		
2	DOT; FY13; ITEM #937.9901; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 1	1 00	Each		
3	DOT; FY14; ITEM #937.9901; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 1	2 00	Each		
4	DOT; FY15; ITEM #937.9901; 7/1/14-2/28/15 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 1	2 00	Each		
5	DOT; FY12; ITEM #937.9902; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 2	1 00	Each		
6	DOT; FY13; ITEM #937.9902; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 2	1 00	Each		
7	DOT; FY14; ITEM #937.9902; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 2	2 00	Each		
8	DOT; FY15 ITEM #937.9902; 7/1/14-2/28/15 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 2	2 00	Each		
9	DOT; FY12; ITEM #937.9903; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 3	2 00	Each		
10	DOT; FY13; ITEM #937.9903; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 3	6 00	Each		
11	DOT; FY14; ITEM #937.9903; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 3	6 00	Each		
12	DOT; FY15; ITEM #937.9903; 7/1/14-2/28/15	6 00	Each		

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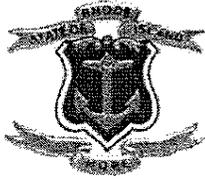
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Line	Description	Quantity	Unit	Unit Price	Total
	MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 3				
13	DOT; FY12; ITEM #937.9904; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 4	1 00	Each		
14	DOT; FY13; ITEM #937.9904; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 4	2 00	Each		
15	DOT; FY14; ITEM #937.9904; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 4	3 00	Each		
16	DOT; FY15; ITEM #937.9904; 7/1/14-6/30/15 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 4	3 00	Each		
17	DOT; FY12; ITEM #937.9905; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 5	0 50	Each		
18	DOT; FY13; ITEM #937.9905; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 5	0 50	Each		
19	DOT; FY14; ITEM #937.9905; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 5	1 00	Each		
20	DOT; FY15; ITEM #937.9905; 7/1/14-6/30/15 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 5	1 00	Each		
21	DOT; FY12; ITEM #937.9906; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 6	0 50	Each		
22	DOT; FY13; ITEM #937.9906; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 6	0 50	Each		
23	DOT; FY14; ITEM #937.9906; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 6	1 00	Each		
24	DOT; FY15; ITEM #937.9906; 7/1/14-6/30/15 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 6	1 00	Each		
25	DOT; FY12; ITEM #937.9907; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 7	0 50	Each		

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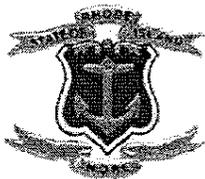
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Line	Description	Quantity	Unit	Unit Price	Total
26	DOT; FY13; ITEM #937.9907; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 7	0.50	Each		
27	DOT; FY14; ITEM #937.9907; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 7	1.00	Each		
28	DOT; FY15; ITEM #937.9907; 7/1/14-6/30/15 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 7	1.00	Each		
29	DOT; FY12; ITEM #937.9908; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 8	0.50	Each		
30	DOT; FY13; ITEM #937.9908; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 8	0.50	Each		
31	DOT; FY14; ITEM #937.9908; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 8	1.00	Each		
32	DOT; FY15; ITEM #937.9908; 7/1/14-6/30/15 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 8	1.00	Each		
33	DOT; FY12; ITEM #937.9909; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 9	0.50	Each		
34	DOT; FY13; ITEM #937.9909; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 9	0.50	Each		
35	DOT; FY14; ITEM #937.9909; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 9	1.00	Each		
36	DOT; FY15; ITEM #937.9909; 7/1/14-6/30/15 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 9	1.00	Each		
37	DOT; FY12; ITEM #937.9910; 3/1/12-6/30/12 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 10	0.50	Each		
38	DOT; FY13; ITEM #937.9910; 7/1/12-6/30/13 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 10	0.50	Each		
39	DOT; FY14; ITEM #937.9910; 7/1/13-6/30/14 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 10	1.00	Each		

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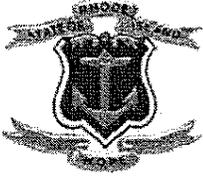
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Line	Description	Quantity	Unit	Unit Price	Total
40	DOT; FY15; ITEM #937.9910; 7/1/14-6/30/15 MAINTENANCE AND PROTECTION OF TRAFFIC TYPE 10	1 00	Each		
41	DOT; FY12; ITEM # T12.9901; 3/1/12-6/30/12 CCVE INSPECTION AND CLEANING PROGRAM WITH LOWERING DEVICE	36 00	Each		
42	DOT; FY13; ITEM # T12.9901; 7/1/12-6/30/13 CCVE INSPECTION AND CLEANING PROGRAM WITH LOWERING DEVICE	65 00	Each		
43	DOT; FY14; ITEM # T12.9901; 7/1/13-6/30/14 CCVE INSPECTION AND CLEANING PROGRAM WITH LOWERING DEVICE	65 00	Each		
44	DOT; FY15; ITEM # T12.9901; 7/1/14-6/30/15 CCVE INSPECTION AND CLEANING PROGRAM WITH LOWERING DEVICE	65 00	Each		
45	DOT; FY12; ITEM # T12.9902; 3/1/12-6/30/12 CCVE INSPECTION AND CLEANING PROGRAM WITHOUT LOWERING DEVICE	30 00	Each		
46	DOT; FY13; ITEM # T12.9902; 7/1/12-6/30/13 CCVE INSPECTION AND CLEANING PROGRAM WITHOUT LOWERING DEVICE	50 00	Each		
47	DOT; FY14; ITEM # T12.9902; 7/1/13-6/30/14 CCVE INSPECTION AND CLEANING PROGRAM WITHOUT LOWERING DEVICE	50 00	Each		
48	DOT; FY15; ITEM # T12.9902; 7/1/14-6/30/15 CCVE INSPECTION AND CLEANING PROGRAM WITHOUT LOWERING DEVICE	50 00	Each		
49	DOT; FY12; ITEM # T12.9903; 3/1/12-6/30/12 CCVE DOME CLEANING WITH LOWERING DEVICE	0 50	Each		
50	DOT; FY13; ITEM # T12.9903; 7/1/12-6/30/13 CCVE DOME CLEANING WITH LOWERING DEVICE	1 50	Each		
51	DOT; FY14; ITEM#T12.9903 7/1/13-6/30/14 CCVE DOME CLEANING WITH LOWERING DEVICE	2 00	Each		
52	DOT; FY15; ITEM#T12.9903 7/1/14-6/30/15 CCVE DOME CLEANING WITH LOWERING DEVICE	2 00	Each		
53	DOT; FY12; ITEM # T12.9904; 3/1/12-6/30/12 CCVE DOME CLEANING WITHOUT LOWERING DEVICE	2 00	Each		

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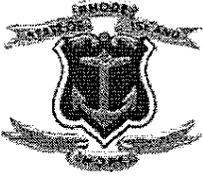
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Line	Description	Quantity	Unit	Unit Price	Total
54	DOT; FY13; ITEM # T12.9904; 7/1/12-6/30/13 CCVE DOME CLEANING WITHOUT LOWERING DEVICE	8 00	Each		
55	DOT; FY14; ITEM # T12.9904; 7/1/13-6/30/14 CCVE DOME CLEANING WITHOUT LOWERING DEVICE	8 00	Each		
56	DOT; FY15; ITEM # T12.9904; 7/1/14-6/30/15 CCVE DOME CLEANING WITHOUT LOWERING DEVICE	8 00	Each		
57	DOT; FY12; ITEM # T12 9905; 3/1/12-6/30/12 CHARGE SOLAR POWERED EQUIPMENT BATTERIES	3 00	Each		
58	DOT; FY13; ITEM # T12.9905; 7/1/12-6/30/13 CHARGE SOLAR POWERED EQUIPMENT BATTERIES	9 00	Each		
59	DOT; FY14; ITEM # T12 9905; 7/1/13-6/30/14 CHARGE SOLAR POWERED EQUIPMENT BATTERIES	9 00	Each		
60	DOT; FY15; ITEM # T12 9905; 7/1/14-6/30/15 CHARGE SOLAR POWERED EQUIPMENT BATTERIES	9 00	Each		
61	DOT; FY12; ITEM # T12.9906; 3/1/12-6/30/12 REPLACE EXISTING FLASHING BEACONS WITH YELLOW LED MODULE	1 00	Each		
62	DOT; FY13; ITEM # T12.9906; 7/1/12-6/30/13 REPLACE EXISTING FLASHING BEACONS WITH YELLOW LED MODULE	3 00	Each		
63	DOT; FY14; ITEM # T12.9906; 7/1/13-6/30/14 REPLACE EXISTING FLASHING BEACONS WITH YELLOW LED MODULE	4 00	Each		
64	DOT; FY15; ITEM # T12.9906; 7/1/14-6/30/15 REPLACE EXISTING FLASHING BEACONS WITH YELLOW LED MODULE	4 00	Each		
65	DOT; FY12; ITEM # T12.9907; 3/1/12-6/30/12 RELAMP EXISTING LED MODULE ON HAR SIGNS	0 50	Each		
66	DOT; FY13; ITEM # T12.9907; 7/1/12-6/30/13 RELAMP EXISTING LED MODULE ON HAR SIGNS	1 50	Each		
67	DOT; FY14; ITEM # T12.9907; 7/1/13-6/30/14 RELAMP EXISTING LED MODULE ON HAR SIGNS	2 00	Each		

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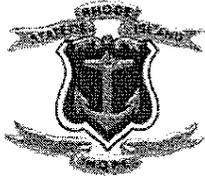
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68	DOT; FY15; ITEM # T12.9907; 7/1/14-6/30/15 RELAMP EXISTING LED MODULE ON HAR SIGNS	2.00	Each		
69	DOT; FY12; ITEM # T12.9908; 3/1/12-6/30/12 REGULAR HOURLY RATE FOR TROUBLESHOOTING AND REPAIR	100.00	Hour		
70	DOT; FY13; ITEM # T12.9908; 7/1/12-6/30/13 REGULAR HOURLY RATE FOR TROUBLESHOOTING AND REPAIR	200.00	Hour		
71	DOT; FY14; ITEM # T12.9908; 7/1/13-6/30/14 REGULAR HOURLY RATE FOR TROUBLESHOOTING AND REPAIR	200.00	Hour		
72	DOT; FY15; ITEM # T12.9908; 7/1/14-6/30/15 REGULAR HOURLY RATE FOR TROUBLESHOOTING AND REPAIR	200.00	Each		
73	DOT; FY12; ITEM # T12.9909; 3/1/12-6/30/12 OVERTIME HOURLY RATE FOR TROUBLESHOOTING AND REPAIR	5.00	Hour		
74	DOT; FY13; ITEM # T12.9909; 7/1/12-6/30/13 OVERTIME HOURLY RATE FOR TROUBLESHOOTING AND REPAIR	8.00	Hour		
75	DOT; FY14; ITEM # T12.9909; 7/1/13-6/30/14 OVERTIME HOURLY RATE FOR TROUBLESHOOTING AND REPAIR	8.00	Hour		
76	DOT; FY15; ITEM # T12.9909; 7/1/14-6/30/15 OVERTIME HOURLY RATE FOR TROUBLESHOOTING AND REPAIR	9.00	Each		
77	DOT; FY12; ITEM # T12.9910; 3/1/12-6/30/12 FLATBEAD TRUCK WITH LIFT AND OPERATOR	2.00	Hour		
78	DOT; FY13; ITEM # T12.9910; 7/1/12-6/30/13 FLATBEAD TRUCK WITH LIFT AND OPERATOR	2.00	Hour		
79	DOT; FY14; ITEM # T12.9910; 7/1/13-6/30/14 FLATBEAD TRUCK WITH LIFT AND OPERATOR	3.00	Hour		
80	DOT; FY15; ITEM # T12.9910; 7/1/14-6/30/15 FLATBEAD TRUCK WITH LIFT AND OPERATOR	2.00	Each		
81	DOT; FY12; 3/1/12-6/30/12 MISCELLANEOUS SUPPLIES AND MATERIALS @ \$1 EACH	11,000.00	Each		

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82	DOT; FY13; 7/1/12-6/30/13 MISCELLANEOUS SUPPLIES AND MATERIALS @ \$1 EACH	31 000 00	Each		
83	DOT; FY14; 7/1/13-6/30/14 MISCELLANEOUS SUPPLIES AND MATERIALS @ \$1 EACH	31 000 00	Each		
84	DOT; FY15; 7/1/14-6/30/15 MISCELLANEOUS SUPPLIES AND MATERIALS @ \$1 EACH	32,000 00	Each		

Delivery: \_\_\_\_\_

Terms of Payment: \_\_\_\_\_

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**Contract Terms and Conditions**

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## Terms and Conditions

### BID STANDARD TERMS AND CONDITIONS

#### TERMS AND CONDITIONS FOR THIS BID

#### WAGE REQUIREMENTS

BIDDERS ARE ADVISED THAT ALL PROVISIONS OF TITLE 37 CHAPTER 13 OF THE GENERAL LAWS OF RHODE ISLAND APPLY TO THE WORK COVERED BY THIS REQUEST, AND THAT PAYMENT OF THE GENERAL PREVAILING RATE OF PER DIEM WAGES AND THE GENERAL PREVAILING RATE FOR REGULAR, OVERTIME, AND OTHER WORKING CONDITIONS EXISTING IN THE LOCALITY FOR EACH CRAFT, MECHANIC, TEAMSTER, OR TYPE OF WORKMAN NEEDED TO EXECUTE THIS WORK IS A REQUIREMENT FOR BOTH CONTRACTORS AND SUBCONTRACTORS. THE PREVAILING WAGE TABLE MAY BE OBTAINED AT THE RI DIVISION OF PURCHASES HOME PAGE BY INTERNET at [www.purchasing.state.ri.us](http://www.purchasing.state.ri.us). SELECT "INFORMATION" AND THEN SELECT "PREVAILING WAGE TABLE". THE STATE OF RHODE ISLAND USES THE GENERAL DECISION NUMBER RI20100001. PRINTING THE ENTIRE DOCUMENT AVERAGES APPROXIMATELY ONE MINUTE PER PAGE - YOU MAY WANT TO PRINT ONLY THE PAGES APPLICABLE TO YOUR BID. BIDDERS NOTE: IN THE EVENT THIS BID SPECIFIES PRICE OFFERS ON A TIME-AND-MATERIALS BASIS, i.e., AN HOURLY RATE, ANY OR ALL BIDS SUBMITTED IN AN AMOUNT LESS THAN THE PREVAILING RATE IN EFFECT FOR THE WORK COVERED BY THIS REQUEST AS OF THE DATE OF BID ISSUANCE SHALL BE REJECTED BY THE DIVISION OF PURCHASES

#### INSURANCE REQUIREMENTS

AN INSURANCE CERTIFICATE IN COMPLIANCE WITH PROVISIONS OF ITEM 31 (INSURANCE) OF THE GENERAL CONDITIONS OF PURCHASE IS REQUIRED FOR COMPREHENSIVE GENERAL LIABILITY, AUTOMOBILE LIABILITY, AND WORKERS' COMPENSATION AND MUST BE SUBMITTED BY THE SUCCESSFUL BIDDER(S) TO THE DIVISION OF PURCHASES PRIOR TO AWARD. THE INSURANCE CERTIFICATE MUST NAME THE STATE OF RHODE ISLAND AS CERTIFICATE HOLDER AND AS AN ADDITIONAL INSURED. FAILURE TO COMPLY WITH THESE PROVISIONS MAY RESULT IN REJECTION OF THE OFFEROR'S BID. ANNUAL RENEWAL CERTIFICATES MUST BE SUBMITTED TO THE AGENCY IDENTIFIED ON THE PURCHASE ORDER. FAILURE TO DO SO MAY BE GROUNDS FOR CANCELLATION OF CONTRACT.

NOTE: IF THIS BID COVERS CONSTRUCTION, SCHOOL BUSING, HAZARDOUS WASTE, OR VESSEL OPERATION, APPLICABLE COVERAGES FROM THE FOLLOWING LIST MUST ALSO BE SUBMITTED TO THE DIVISION OF PURCHASES PRIOR TO AWARD: \* PROFESSIONAL LIABILITY INSURANCE (AKA ERRORS & OMISSIONS) - \$1 MILLION OR 5% OF ESTIMATED PROJECT COST, WHICHEVER IS GREATER \* BUILDER'S RISK INSURANCE - COVERAGE EQUAL TO FACE AMOUNT OF CONTRACT FOR CONSTRUCTION. \* SCHOOL BUSING - AUTO LIABILITY COVERAGE IN THE AMOUNT OF \$5 MILLION \* ENVIRONMENTAL IMPAIRMENT (AKA POLLUTION CONTROL) - \$1 MILLION OR 5% OF FACE AMOUNT OF CONTRACT, WHICHEVER IS GREATER \* VESSEL OPERATION - (MARINE OR AIRCRAFT) - PROTECTION & INDEMNITY COVERAGE REQUIRED IN THE AMOUNT OF \$1 MILLION

**GENERAL PROVISIONS – CONTRACT SPECIFIC**

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# **1. INTRODUCTION**

## **1.1. Background**

The Rhode Island Department of Transportation (RIDOT) Transportation Management Center (TMC) owns, operates and is responsible for the maintenance of numerous Intelligent Transportation System (ITS) devices. The Rhode Island Transportation Management Center is a computerized control center incorporating video surveillance systems, dynamic message signs, variable message signs, and highway advisory radio systems. The center is located in the RIDOT Building at Two Capitol Hill, Providence, Rhode Island.

The TMC continues to add additional equipment on a regular basis through RIDOT construction contracts and TMC contracts. The locations of all current TMC field equipment will be provided in a Google Earth map format upon request (which can be converted to standard latitude/longitude coordinates). This information will be updated and modified as needed due to old equipment being decommissioned and new equipment coming online.

The intent of this document is to set forth terms and conditions for on-call preventive maintenance, diagnostic and repair services of existing and planned ITS field devices throughout the term of this contract.

The area covered by the Rhode Island Transportation Management Center ITS field devices primarily includes, but is not limited to, I-95, I-195, I-295, Routes 1, 2, 4, 5, 6, 10, 24, 37, 44, 114, 136, 138, and 146 along with equipment located on other state roadways throughout the state. In addition to devices located throughout Rhode Island, the TMC owns, operates, and maintains four (4) Daktronics PVMS along I-95, I-495 and Route 24 in Massachusetts.

# **2. SCOPE OF WORK**

## **2.1. Description of Services**

The purpose of this Request for Bids is to provide the necessary services required to maintain the Rhode Island Department of Transportation's traffic monitoring equipment operational and functional twenty-four (24) hours per day, seven (7) days per week for the term on the contract.

Under this contract, the successful bidder (Contractor) will mobilize and furnish labor and materials as detailed in this document, in order to provide

comprehensive maintenance, diagnostic and repair services of the electronic and communications equipment and associated devices/subsystems which collectively provide for the functionality and system integrity of the Rhode Island Transportation Management Center.

Services provided under this Contract shall include all labor, materials and incidentals required to execute and complete the requirements of this Contract, including administration, supervision, use of equipment and tools and all services and responsibilities prescribed or implied in the Contract. All services described herein shall cover all existing and future Intelligent Transportation System (ITS) devices deployed during the term of this Contract, unless specifically excluded by RIDOT.

Initially, the Contractor will be required to provide defined maintenance and diagnostic and repair services on 127 CCVE sites, 18 PVMS locations, 13 Fixed HAR Transmitter sites, 3 Portable Highway Advisory Radios, and 42 Flashing HAR Beacon signs. As existing equipment warranties expire, the Contractor will be required to maintain and repair additional CCTV, HAR, PVMS and Flashing Beacon Sign sites. Maintenance and repair of the 17 Daktronics Dynamic Message Signs and 4 of the Daktronics Portable Variable Message Signs are provided under a separate contract and are excluded from this Contract.

#### **2.1.1. Repair Services**

In addition to specifically scheduled maintenance, the TMC Manager or duly authorized representative (hereby referred to as the TMC) will direct the Contractor to diagnose and repair system problems as they arise. Direction will be given to the Contractor's representative, who will be responsible for ensuring that the TMC's directions are carried out by the Contractor's workforce.

#### **2.2. Term of Contract**

This contract and the submitted bid prices shall be valid for a period of three (3) years from written Notice to Proceed. Bid prices are subject to the agreement of the State.

#### **2.3. Award of Contract**

The basis of award of the contract will be to the lowest responsive and responsible Contractor (see Section 4.1 Contractor Qualifications of this Bid Solicitation) bid price at the mutual agreement of the State and the Contractor for all quantities of work shown this Bid Solicitation subject to the

review and correction as provided for in the *State of Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction and Standard Details*.

The *State of Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction and Standard Details* consist of the following:

- *The Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition* with all revisions.
- *The Rhode Island Standard Details, 1998 Edition* with all revisions.

## **2.4. Contractor Work Schedule**

The Contractor and all Subcontractors shall be required to provide all preventive maintenance activities under this contract Monday through Friday (including holidays, if directed by the TMC) during the hours of 7:00 am to 3:00 pm.

No work that will disrupt travel on the existing roadways (lane closures, lane shifts, trenching, etc.) shall be done from 6:00 AM to 9:00 AM and from 3:00 PM to 7:00 PM.

No work shall be done on this contract on Saturdays, Sundays or holidays or on the day before or the day after a long weekend which involves a holiday without prior approval by the Engineer

As requested by the TMC, the Contractor may be required to provide personnel for weekend work, including early starts (before 7:00 am), and/or late finishes (after 3:00 pm) in order to meet equipment diagnostic and repair needs.

The Contractor will be compensated on a time and materials basis. The Contractor will not be reimbursed for travel time to and from the sites but only for time at the site.

## **3. MATERIALS**

The contractor shall provide all equipment and material required for maintenance and repairs required herein. The contractor shall also maintain a spare equipment inventory for the duration of the Contract. The contractor will be required to submit copies of all purchase and equipment repair orders listing specific model numbers, price and shipping and handling costs.

All purchases by the contractor shall be made in the most cost-effective manner possible. Equipment necessary to carry out work, including vehicles, shall not be reimbursable unless specifically itemized within this bid document or specifically authorized in writing by the TMC.

The Contractor will be reimbursed for equipment purchases at total cost plus five (5) percent.

### **3.1. Miscellaneous Materials and Services**

Any miscellaneous materials required to complete the work under this contract will be supplied by the State from existing inventories, purchased by the State and supplied to the Contractor, or the Contractor may be required to purchase material directly and submit for reimbursement.

### **3.1.1. Contractor Reimbursement for Miscellaneous Materials and Services**

When directed by the TMC to purchase materials or services eligible for reimbursement, the Contractor shall employ the following as general purchasing practice:

#### **3.1.1.1. Miscellaneous materials and services valued at \$5,000 or less**

Only materials and services valued at \$5000 or less may be purchased by the Contractor with written authorization from the TMC.

All items purchased shall require written confirmation of the winning price quotation to the TMC and approval of the quoted price by the TMC manager prior to purchase of the materials or services.

#### **3.1.1.2. Miscellaneous materials valued over \$500**

For purchases exceeding \$500.00, but not to exceed \$5000.00, the Contractor shall provide written confirmation of at least three quotations, and the lowest quoted price shall be used. If no competition exists for the requested materials or services, the Contractor shall provide written justification for why the quoted vendor is the only source for the materials or services.

The contractor will be required to submit copies of all purchases listing specific model numbers and quantities, services, shipping and handling costs.

### **3.1.2. SPARE EQUIPMENT**

At Notice to Proceed, the Contractor shall arrange to pick up the spare equipment inventory from RIDOT. When spare equipment is utilized in a repair operation, the failed equipment shall be provided to RIDOT for repair. Once repaired, RIDOT will provide the equipment to the Contractor and the Contractor shall return the equipment to the spare equipment inventory. If the failed equipment cannot be repaired, a replacement spare will be provided by RIDOT, or at the option of the

State, a replacement spare shall be purchased by the Contractor. All items provided by the Contractor shall be purchased new and be available for inspection by Transportation Management Center personnel upon request.

The Contractor shall be responsible at all times for all spare equipment in their possession. The Contractor shall maintain complete records of the location and status of all spare equipment, and shall make those records available for inspection by RIDOT at any time upon 24 hours advance notification. At the conclusion of the Contract, the Contractor shall turn over all spare equipment inventory to the Transportation Management Center in working order.

## **4. PERSONNEL**

The Contractor shall notify the TMC of any personnel changes to personnel assigned to the Contract as early as practical, but no later than one (1) business day after such personnel change occurs.

The State also reserves the option of providing State personnel, or RIDOT designees, and equipment to assist in or perform any work covered under this contract.

### **4.1. CONTRACTOR QUALIFICATIONS**

The contractor must submit a list with the sealed bid of previous work on similar State contracts, qualified personnel, certifications, licenses and equipment in order to be eligible for contract award. The list shall include:

#### **4.1.1. Key Personnel and Equipment**

Specifically identify key personnel to be assigned to the project. Assignment of key personnel to the project must be for the duration of the project. Provide a detailed resume for each such individual, including proof of any equipment service certifications, as required in the specifications herein. In the event such personnel are not employees of the bidder, submit documentation of the relationship. Describe the individuals' responsibilities on previous projects and their proposed responsibility on this project. Demonstrate that the bidder has the capability, in terms of both qualifications and quantities of personnel, facilities and equipment required, to accomplish the work in this contract.

#### **4.1.2. License Requirements**

Where applicable, companies submitting bids must meet the license requirements of the Rhode Island General Statutes. The Contractor shall submit copies of all licenses and certifications for the work required within this contract.

Specifically, the Contractor and all service personnel employed by the Contractor and assigned to this project shall maintain current all State of Rhode Island electrical licenses required to perform the work under the scope of this Contract.

The Contractor shall maintain required licenses for the duration of this contract. Any lapse in required licensure shall be grounds for termination of this contract, at the sole discretion of RIDOT.

#### **4.1.3. Previous Experience**

Identify previous work where the Contractor has successfully maintained a minimum of 25 video equipment locations, 5 VMS, and related system equipment for a period of at least twelve (12) months. This work shall have taken place within the past 24 months. Provide references and appropriate contact information for the contracting agency for those services.

#### **4.1.4. Training and Certification**

The Contractor shall have personnel who are trained and certified by the equipment manufacturer in the service of equipment as follows:

1. Pelco Spectra III SE, Spectra IV SE, and Spectra IV IP dome camera installation and configuration
2. PelcoNet 4001A video transmission installation and configuration
3. Samsung SNP-3370 IP camera and dome installation and configuration
4. ADDCO portable VMS maintenance
5. Daktronics portable VMS maintenance

All required certifications shall be maintained current for the duration of the Contract. The Contractor shall provide evidence of certification prior to Notice to Proceed, on an annual basis there after, and upon notification of any personnel changes. Any lapse in required certifications shall be grounds for termination of this contract, at the sole discretion of RIDOT

#### **4.1.5. Subcontractors**

RIDOT must approve any and all subcontractors utilized by the successful supplier prior to any such subcontractor commencing any work. Suppliers acknowledge by the act of submitting a bid that any work provided under the contract is work conducted on behalf of the State and that the RIDOT or a designee of RIDOT may communicate directly with any subcontractor as the State deems to be necessary or appropriate. It is also understood that the successful supplier shall be responsible for all payment of fees charged by the subcontractor(s). A performance evaluation of any subcontractor shall be provided promptly by the successful supplier to RIDOT upon request.

#### **4.2. Equipment Manufacturer Support to Contractor**

The Contractor shall be responsible for any charges associated with technical support needed from equipment manufacturers required to diagnose equipment failures. Immediately upon Notice to Proceed, the Contractor shall establish any technical support agreements with the manufacturers required to maintain the equipment covered under this Contract. The manufacturers may include Pelco, ADDCO, or any other manufacturers of equipment that may be added during the period of performance of this Contract.

#### **4.3. Right to Inspection**

The State reserves the right to inspect a contractor's equipment or facility in an effort to determine if the bidder is qualified to perform the services required by the contract.

### **5. NOTICE TO CONTRACTOR**

Sealed Proposals addressed to the State Purchasing Agent, Rhode Island Department of Administration, Division of Purchases, One Capitol Hill, Providence, Rhode Island 02903, will be opened and read in public on **3/13/12** at 11:30AM. All bidders MUST register online at [www.purchasing.ri.gov](http://www.purchasing.ri.gov). A Bidder Certification Cover Sheet MUST accompany each bid. Bid item description and quantities estimated for this project will also be available online. Should you need assistance in registering or downloading a bid, call (401) 222-3766. Failure to comply will result in mandatory disqualification per Item 4 of Section 12.102.12 of the Rhode Island Department of Transportation's Standard Specifications for Road and Bridge Construction 2004 Edition and RI General Law 37-2-17 which references the RI Vendor Information Program (RIVIP).

Bid items 80-84 are for the reimbursement of the Contractor for miscellaneous materials and services provided under this Contract, as defined in Section 3.1. The unit price for these bid items shall be \$1.00, and all prospective bidders are directed to include that unit price in their proposals.

Required Contract Provisions - The attention of prospective bidders is called to the fact that this project is to be bid upon and the contract executed under the rules and regulations for carrying out the provisions of the Federal-Aid Highway Act, subject to all appropriate Federal Laws, including Title VI of the Civil Rights Act of 1964, as amended and supplemented, and the required provisions for Federal - Aid Contracts, as provided for in Chapters 85, 86 and 88 of the Public Laws of Rhode Island, 1960.

Wages of labor on Federal -Aid Highway Projects - the prevailing rate of wages for laborers and mechanics employed by contractors or subcontractors on the initial construction of highway projects on the Federal - Aid Highway System, authorized under the Federal Highway Act of 1968, shall be paid wages at rates not less than those prevailing on the same type of work on similar construction in the immediate locality as determined by the United States Secretary of Labor, in accordance with the Act of August 30, 1935, known as the Davis - Bacon Act, under Decision Nos. 1 through 6 as applicable.

Prevailing wage rates and Davis - Bacon Wage Determination Reference Materials are available online at [www.purchasing.ri.gov](http://www.purchasing.ri.gov). It is advisable to print only the pages applicable to this bid; the rates active on the Rhode Island Vendor Information Program's bid solicitation date for this project are applicable for the duration of the contract resulting from this bid.

Work Hours Act of 1962 - This contract is subject to Work Hours Act of 1962, Public Law 87-581 and implementing regulations.

## **6. PRE-BID MEETING**

Pre-Bid Conference - A Pre-Bid Conference will be held in Providence, Rhode Island, Two Capitol Hill, Transportation Management Center (TMC) Rm. 126 at 9:00AM on **March 2, 2012** for the purpose of reviewing construction problems and/or operations concerning the project. Individuals requesting interpreter services for the hearing impaired must notify 401-222-4971 (T.D.D.) a minimum of at least three (3) business days, seventy-two (72) hours prior to the conference date.

## **7. CONTRACTOR RESPONSE REQUIREMENTS**

The Contractor shall maintain a 24 hour per day, 7 days per week voice telephone number in the (401) area code for the duration of the contract. The Contractor shall also maintain an email address for TMC support personnel to contact the Contractor for assistance and other information during regular business hours.

### **7.1. Equipment Failure Service Calls**

The Contractor shall respond to equipment failure service calls within the time limits identified as follows:

Upon notification of a system failure by a RIDOT representative to the Contractor via the twenty-four (24) hour emergency telephone number, or by email during regular business hours, the Contractor shall dispatch service personnel who shall arrive at the required location(s) within two (2) hours of notification.

**Exception:** If the service call is:

- ♦ received outside of regular business hours, or within two (2) hours of the end of a business day and the Contractor is unable to arrive at the site within a reasonable time before the end of the business day

and

- ♦ RIDOT has not authorized overtime hours for the service call

then the Contractor shall dispatch service personnel who shall arrive at the required location(s) at 7 a.m. the next business day. The Contractor shall complete all necessary work to correct the problem within 24 hours of arrival at the site, unless additional time is allowed by the TMC.

The Contractor shall notify the TMC immediately by telephone upon arrival at the required location, and the Contractor shall notify the TMC immediately upon completion of the work operation before departure from the site. This notification procedure shall be followed for each work site the Contractor is dispatched to. Failure to provide the required notifications will be grounds for the State to withhold payment for said maintenance.

Work performed for equipment failure service calls shall be paid for at an hourly rate of personnel plus the appropriate maintenance of traffic, if required, during the operation.

The Contractor shall provide a written failure report to the TMC within 24 hours after completion of all necessary repairs of the problem. The written failure report shall fully describe the problem, its cause, and all action taken and the man-hours and equipment utilized in the repair. All equipment, materials, or software listed in the report shall contain the manufacturer's name, model, and serial number. All equipment or components used in the replacement or repair shall be those that have previously been approved by the TMC. The Contractor shall not perform field repairs on electrical or electronic equipment. Malfunctioning electrical or electronic equipment shall be replaced by those components that have previously been approved by the TMC. Failure of the Contractor to provide the TMC with the written failure

report or failure to meet the repair timelines may be means for the State to withhold payment for said repairs.

If, once at the site, the Contractor determines that the failure is due to an unpredictable external force acting on the field equipment or any appurtenances, such external forces being only vandalism, non-contractor owned vehicle impact, gunfire, brushfire, abnormal weather being a National Weather Service verified tornado or hurricane (Poles and all field equipment shall be constructed to withstand normal weather including lightning, extreme heat and cold, and high winds), verifiable power failure in the area, or failure of the cable company or telephone company to provide communications, the Contractor shall notify the TMC immediately and submit by facsimile a time and cost estimate for the repair based upon agreed unit prices to be established. The Contractor shall submit the estimate within twenty-four hours of the call. The Contractor shall perform the repair according to the agreed upon terms, upon his receipt of written authorization to perform the work from the TMC.

#### **7.2. Preventative Maintenance:**

Cleaning and inspection of cameras and domes, charging of batteries, and any other preventative maintenance activities shall be performed only during regular business hours. The Contractor shall not utilize overtime hours in the performance of any preventative maintenance activities.

### **8. CCVE INSPECTION AND CLEANING PROGRAM**

CCVE Inspection and Cleaning Program services shall consist of the Contractor performing annual (once per year) inspections and cleaning of the CCVE Subsystem, specifically targeting cleaning of CCVE domes. In addition to the annual inspection & cleaning, additional individual camera dome cleanings shall be provided on an as-needed basis and as requested by RIDOT. These will be for CCVE that are routinely affected by road salt and other sources of dirt. The total number of additional individual camera cleanings shall be no more than 20.

The Contractor shall provide CCVE Inspection and Cleaning Program services during normal work hours as defined in Section 2.4 Contractor Work Schedule of this Bid Solicitation.

All work included under the CCVE Inspection and Cleaning Program shall include any and all maintenance of traffic required to complete the work, including all labor, equipment, tools, signs, cones, barrels, flashing arrow

boards, truck mounted attenuators, personnel, accessories, including hardware, and incidentals.

### **8.1. CCVE Inspection and Cleaning Program Plan**

Before the CCVE Inspection and Cleaning Program services can begin, the Contractor shall prepare and submit to RIDOT for approval a detailed CCVE Inspection and Cleaning Program Plan for the CCVE Subsystem.

The Contractor shall submit to RIDOT a plan detailing the upcoming CCVE Inspection and Cleaning Program activities, including CCVE locations by date, any traffic impacts, lanes closures, and associated MOT plans. This plan shall be submitted, for approval, by close of business the Wednesday prior to the week activity are scheduled to begin.

### **8.2. CCVE Inspection and Cleaning Program Log**

The Contractor shall keep a log of all CCVE Inspection and Cleaning Program activities. The log shall contain a description of the activities performed by device site and a list of any parts or materials used.

The log shall be maintained up to date by the Contractor and shall be submitted to RIDOT on a monthly basis, or as directed by RIDOT.

## **9. MAINTENANCE AND PROTECTION OF TRAFFIC**

The Rhode Island Department of Transportation will determine if the Contractor is required to provide Maintenance and Protection of Traffic as detailed in Part 6 of the Manual of Uniform Traffic Control Devices for Streets and Highways, 2009 Edition, including all updates where work on this contract is being performed as part of this contract. This shall include all recommended equipment as designated in the MUTCD including but not limited to cones, barrels, signs, flagpersons, barricades, and truck mounted attenuators.

In addition to the requirements of the Standard Specifications for Road and Bridge Construction and the Special Requirements of other sections of these contract documents, the Contractor must adhere to the following requirements:

The Contractor is advised that the signs and other traffic control devices required by these specifications are minimum requirements, and it is the Contractor's responsibility to supplement these if necessary to ensure the

public's safety. All Maintenance and Protection of Traffic devices shall be in place and approved by the Engineer prior to starting any maintenance activities. All Maintenance and Protection of Traffic shall conform to the latest edition and revisions of the Manual on Uniform Traffic Control Devices (MUTCD). The Contractor must submit for approval a traffic control plan when implementing any changes to the details within these specifications or when providing traffic control for situations differing from those indicated in these specifications, including subcontractor work.

Any deviations from the requirements stated here must be submitted to the Engineer in writing for approval.

In case of an emergency, the Contractor will be required to move equipment and allow the passage of emergency vehicles. The safety of the residents of the area must be considered at all times.

## **10. INVOICE AND SUBMITTAL SCHEDULE**

In addition to the written failure reports and invoice back-ups, the Contractor is required to submit invoices and summary work sheets once per month to the TMC for review and approval. At a minimum this shall include:

### **10.1. Monthly Invoices**

The monthly invoices shall include a summary of all items and man-hours charged during the completion of work under this contract for the prior month. The invoices shall provide a list of all items totaled under the appropriate item number for the contract.

### **10.2. Documentation**

#### **10.2.1. Written Failure Reports**

The Contractor shall resubmit a summary of all written failure reports.

#### **10.2.2. Equipment and Repair Charges**

The contractor shall resubmit copies of all equipment and repair charges.

#### **10.2.3. Progress Report**

The Contractor shall submit a detailed list of work accomplished during the prior month including description, dates, hours worked, tasks accomplished etc.

Failure to submit the required invoices, documentation, and failure reports may be grounds to withhold payment.

## **APPENDIX A: ITS EQUIPMENT**

The Contractor shall initially be responsible for providing Maintenance and Repair Services for the equipment in Appendix A. Equipment will be added/subtracted to this contract as needed due to new construction activities. The tables in Appendix A detail the equipment locations, how each site is to be accessed by the Contractor for service, and any maintenance and protection of traffic required for access to the site.

Exact locations (latitude/longitude) of all ITS Equipment will be provided upon request in Google Earth format.

	Camera	Location	Lowering Device?	MOT Req.	Site Access/Parking
1	I-95 @ East St	Camera/Cabinet	Y		Park on grass next to cabinet. Run extension cord up hill to camera pole for lowering device.
2	I-95 @ Broadway Pawtucket	Camera Cabinet		Type 6 Type 1	Park bucket truck as close to underpass wall as feasible or use ladder. Park on grass on right side of exit ramp, and walk across ramp to cabinet.
3	I-95 SB @ Exchange St	Camera/Cabinet		Type 6	Park bucket truck as close to underpass wall as feasible or use ladder.
4	I-95 NB @ Vernon St	Camera/Cabinet	Y		Park on grass near camera pole.
5	I-95 SB @ Ex. 27 Pawtucket	Camera/Cabinet	Y		Park on Garden St.
6	I-95 NB @ Exit 26 Lonsdale	Camera/Cabinet	Y		Park on grass after offramp for exit 26
7	I-95 NB @ Smithfield DMS	Camera Cabinet			Park bucket truck next to DMS structure behind guardrail. Park next to cabinet behind guardrail.
8	I-95 @ Branch Ave	Camera/Cabinet	Y		Park behind guardrail next to cabinet.
9	I-95 @ Orms St	Camera/Cabinet	Y		Park on sidewalk on Ambrose St next to cabinet. Run extension cord from cabinet down hill to camera pole for lowering device.
10	I-95 @ Kinsley	Camera/Cabinet	Y		Park next to cabinet.
11	I-95 @ Broadway	Camera/Cabinet	Y		Park on Service Road 7. Run extension cord from cabinet down hill to camera pole for lowering device tool.
12	I-95 @ Broad St	Camera/Cabinet	Y	Type 6	Park on grass median adjacent to cabinet. Use generator for lowering device tool.
13	I-95 @ Friendship (I-195)	Camera/Cabinet		Type 1	Park next to camera pole
14	I-95 SB @ Eddy St	Camera/Cabinet	Y	Type 1	Park on Eddy St Near Camera pole.
15	I-95 @ Public St	Camera/Cabinet	Y		Park next to cabinet on Public St.
16	I-95 @ Thurburs Ave	Camera/Cabinet	Y		Pull beyond camera and guardrail, back up and park behind guardrail.
17	I-95 @ Detroit Ave	Camera/Cabinet	Y		Pull beyond camera and guardrail, back up behind guardrail and park next to cabinet.
18	I-95 @ Elmwood Ave	Camera/Cabinet	Y		Park on grass next to cabinet. Run extension cord to camera pole for lowering device.
19	I-95 @ Rt 10	Camera/Cabinet	Y		Pull beyond camera and guardrail, back up behind guardrail and park next to cabinet.
20	I-95 @ Laurens DMS	Camera Cabinet			Park bucket truck behind guardrail next to DMS structure. Park behind guardrail next to cabinet.

	Camera	Location	Lowering Device?	MOT Req.	Site Access/Parking
21	I-95 NB @ Wellington	Camera/Cabinet	Y		Park on shoulder next to camera pole.
22	I-95 NB @ Jefferson Boulevard	Camera Cabinet	Y	Type 3	Park bucket truck next to guardrail adjacent to camera pole. Park on grass next to cabinet.
23	I-95 NB @ Service Road	Camera Cabinet	Y		Park bucket truck on grass next to cabinet. Park on grass next to cabinet.
24	I-95 SB @ Greenwich Ave	Camera/Cabinet	Y		Park on shoulder next to camera pole
25	I-95 NB @ Tollgate Rd	Camera/Cabinet	Y		Park on Tollgate Rd near overpass
26	I-95 SB @ Cowessett Overpass	Camera Cabinet	Y	Type 1 Type 2	Pull off road onto grass before overpass. Access camera from step ladder. Park on sidewalk next to cabinet.
27	I-95 @ Celltower	Camera/Cabinet	Y		Park behind guardrail next to cabinet.
28	I-95 NB @ Quaker Lane	Camera/Cabinet	Y		Park on grass after camera pole on Quaker Lane.
29	I-95 SB @ New London Turnpike	Camera/Cabinet	Y		Park on shoulder next to camera pole
30	I-95 NB @ Hopkins Hill Rd	Camera/Cabinet	Y		Park on grass behind guardrail.
31	I-95 NB @ Nooseneck Hill Rd	Camera/Cabinet	Y		Park on grass behind guardrail.
32	I-95 @ Weaver Hill Rd	Camera/Cabinet	Y		Park in median near camera pole.
33	I-95 SB @ Exit 5 DMS	Camera Cabinet			Park bucket truck on grass next to DMS structure. Park on grass next to cabinet.
34	I-95 SB @ Exit 5	Camera/Cabinet	Y	Type 10	Pull behind guardrail before camera.
35	I-95 NB @ Exit 4	Camera Cabinet	Y		Pull off at exit. Park on grass. Backup behind guardrail.
36	I-95 NB @ Exit 3	Camera Cabinet	Y		Pull off at exit. Park on grass. Backup behind guardrail.
37	I-95 SB @ Exit 2	Camera Cabinet	Y		Pull off at exit. Park on grass. Backup behind guardrail.
38	I-95 SB @ Exit 1	Camera Cabinet	Y		Pull off at exit. Park on grass. Backup behind guardrail.
39	I-95 @ CT state line	Camera Cabinet			Park bucket truck behind guardrail next to DMS structure. Park behind guardrail next to cabinet.
40	I-195 Stateline(WB)	Camera Cabinet	Y		Park bucket truck behind guardrail next to DMS structure. Park behind guardrail next to cabinet.

	Camera	Location	Lowering Device?	MOT Req.	Site Access/Parking
41	I-195 @ Pawtucket Ave	Camera/Cabinet	Y		Park in Walgreens parking lot on Warren Ave. Walk to cabinet. Run extension cord from cabinet down hill to camera pole to operate camera lowering device.
42	I-195 @ Taunton Ave	Camera Cabinet	Y		Park on grass on median next to camera pole. Park on grass on median next to cabinet.
43	I-195 @ Pedestrian Overpass	Camera Cabinet	Y		Park on street on George M Cohan Blvd. Walk to camera pole. Park on street on George M Cohan Blvd. Walk to cabinet.
44	I-195 @ India St	Camera/Cabinet	Y		Park on grass behind near camera pole.
45	I-295 NB @ Rest Area	Camera Cabinet	Y		Park in rest area, walk to camera pole. Park in rest area, walk to cabinet.
46	I-295 SB @ Rt 116	Camera/Cabinet		Type 1	Park on Rt 116 East near camera pole.
47	I-295 SB @ Exit 6	Camera Cabinet	Y		Park behind guardrail next to camera pole. Park behind guardrail next to cabinet.
48	I-295 NB @ Exit 6	Camera Cabinet	Y		Park behind guardrail next to camera pole. Park behind guardrail next to cabinet.
49	I-295 SB @ Exit 4	Camera/Cabinet	Y		Park next to cabinet in median.
50	I-295 SB @ Exit 2	Camera/Cabinet	Y		Park next to cabinet in median.
51	Rt 146 N @ Great Rd Bridge	Camera Cabinet	Y	Type 1	Park before overpass in shoulder. Park in left shoulder at top of offramp.
52	Rt 146 NB @ Woonsocket Hill Rd	Camera/Cabinet	Y		Park in shoulder.
53	Rt 146 SB @ Rt 146A	Camera Cabinet		Type 3	Park bucket truck on shoulder adjacent to camera pole. Park off road next to cabinet.
54	Rt 146 NB @ Rt 146A	Camera Cabinet		Type 3	Park bucket truck on shoulder adjacent to camera pole. Park on grass beyond cabinet well off road and walk to cabinet.
55	Rt 146 @ I-295	Camera/Cabinet		Type 4	Park bucket truck on shoulder adjacent to camera pole.
56	Rt 146 @ Rt 116	Camera Cabinet		Type 6	Park bucket truck in right lane adjacent to camera pole. Park in gore area at Rt 146 NB to Rt 116 off ramp and walk to cabinet.
57	Rt 146 NB @ Sherman Ave	Camera/Cabinet	Y		
58	Rt 146 DMS	Camera Cabinet		Type 3	Park bucket truck behind guardrail adjacent to DMS structure. Park behind guardrail next to cabinet.
59	Rt 146 SB @ Branch Ave	Camera/Cabinet	Y		Pull onto grass on ramp from Branch Ave.
60	Rt 146 DOH	Camera Cabinet			Access camera from ladder on lower roof of Department of Health building. Equipment in 4th floor utility closet of Department of Health Building. Coordinate access with TMC.

	Camera	Location	Lowering Device?	MOT Req.	Site Access/Parking
61	Rt 10 @ Elmwood Ave	Camera/Cabinet	Y	Type 1	Park on Elmwood ave adjacent to camera pole.
62	Rt 10 @ Reservoir	Camera/Cabinet	Y		Park next to cabinet or other convenient spot. Run extension cord from cabinet down hill to camera pole for lowering device.
63	Rt 10 @ Kenwood	Camera/Cabinet	Y		Park next to cabinet.
64	Rt 10 @ Union Ave	Camera/Cabinet	Y		Park next to cabinet.
65	Rt 10 @ Rt 6	Camera/Cabinet	Y		Park behind guardrail next to cabinet.
66	Rt 6/10 @ Tobey	Camera/Cabinet	Y		Park on grass beyond overpass near cabinet.
67	Rt 6/10 @ Dean	Camera/Cabinet	Y		Pull off road, back up behind guardrail next to cabinet.
68	Rt 6 @ Hartford Ave	Camera Cabinet		Type 6	Park bucket truck on shoulder adjacent to camera pole.
					Park on grass next to cabinet.
69	Rt 6 DMS	Camera Cabinet		Type 6	Park bucket truck on shoulder adjacent to camera on DMS structure.
					Park past guardrail on grass, walk to cabinet.
70	Rt 6 @ Glenbridge Ave	Camera Cabinet			Park bucket truck well off road on grass next to camera pole.
					Park well off road on grass next to cabinet.
71	Rt 6 @ Atwood	Camera Cabinet		Type 3 Type 1	Park bucket truck in shoulder adjacent to camera pole.
					Park on sidewalk next to cabinet.
72	Rt 6 Bypass @ Rt 101	Camera/Cabinet			Pull off road onto grass median
73	Rt 4 @ Middle Road	Camera Cabinet		Type 3	Park bucket truck on shoulder adjacent to camera pole.
					Pull off road before camera, walk to cabinet.
74	Rt 4 @ Rt 402	Camera/Cabinet	Y	Type 3	Park in shoulder next to Camera pole.
75	Rt 4 SB DMS	Camera Cabinet			Park bucket truck in median adjacent to camera on DMS structure.
					Park behind guardrail next to camera.
76	Rt 4 SB @ Oak Hill Rd	Camera/Cabinet	Y		Access from grass area
77	Rt 4 @ West Allenton	Camera Cabinet		Type 3	Park bucket truck in shoulder adjacent to camera.
					Park on grass next to cabinet.
78	Rt 4 @ Rt 1	Camera Cabinet			Park bucket truck in median next to camera pole.
					Park off road next to cabinet.
79	Rt 1 @ Fourth St	Camera Cabinet		Type 9	Park bucket truck in right lane on Rt 1 adjacent to camera pole.
					Park in bank parking lot and walk to cabinet
80	Rt 1 @ Frenchtown Rd	Camera/Cabinet	Y		Pull off road onto grass.

	Camera	Location	Lowering Device?	MOT Req.	Site Access/Parking
81	Rt 1 @ Devils Foot Road	Camera Cabinet	Y		Park next to camera pole. Park next to cabinet.
82	Rt 1 @ Rt 138 NK	Camera/Cabinet	Y		Take Rt 138 W to Rt 1 S ramp, and pull off ramp Rt 1 overpass.
83	Rt 1 @ Rt 138 SK	Camera Cabinet		Type 7	Park bucket truck in right lane adjacent to camera pole. Park in park and ride lot adjacent to cabinet.
84	Rt 1 @ Government Center	Camera/Cabinet		Type 2	Park bucket truck in shoulder adjacent to pole.
85	Rt 1 @ Saugatucket	Camera Cabinet		Type 3	Park bucket in shoulder adjacent to camera pole. Pull off road and park next to cabinet.
86	Rt 1 @ Camp Fuller Rd	Camera/Cabinet			Pull off road onto grass.
87	Rt 1 @ Rt 78	Camera Cabinet		Type 9	Park bucket truck in right turn lane on Rt 1 North adjacent to camera pole. Park in CVS parking lot and walk to cabinet.
88	Rt 138 @ Rt 1A	Camera/Cabinet	Y		Park behind guardrail next to cabinet.
89	Rt 138 Jamestown Bridge NIK	Camera Cabinet	Y		Back up onto road behind guardrail next to camera pole. Back up onto road behind guardrail next to cabinet.
90	INTENTIONALLY LEFT BLANK				INTENTIONALLY LEFT BLANK
91	Rt 138 Jamestown Bridge Island	Camera/Cabinet	Y		Pull completely off road onto grass next to camera pole.
92	Rt 138 Adm Kalbfus Road	Camera/Cabinet	Y		Park on closed portion of Rt 138. Walk to Camera
93	Rt 138 @ Rt 214	Camera Cabinet		Type 7	Park bucket in right lane on Rt 138 adjacent to camera pole. Park in Wendy's parking lot and walk to cabinet.
94	Rt 138 @ Rt 138A	Camera Cabinet			Park bucket truck in parking area next to camera pole. Park in parking area.
95	Rt 24 Portsmouth Maintenance Facility	Camera Cabinet			Park bucket truck in maintenance facility parking lot adjacent to camera. Park in maintenance facility parking lot.
96	Rt 24 Sakonnet River Bridge Portsmouth	Camera/Cabinet	Y	Type 3	Park underneath bridge.
97	Rt 24 Sakonnet River Bridge Iverton	Camera/Cabinet	Y		Park underneath bridge.
98	Rt 24 SB @ Main Rd Bridge	Camera/Cabinet	Y	Type 3	Park on SE corner of Main Road Bridge.
99	Rt 136 @ Market St	Camera/Cabinet		Type 1	Park next to camera cabinet.
100	Rt 136 @ Bristol	Camera Cabinet		Type 2	Park bucket truck on shoulder. Pull off road and park on grass.

Camera Cleaning List and Access Instructions

	Camera	Location	Lowering Device?	MOT Req.	Site Access/Parking
101	Rt 114 @ Mink St	Camera Cabinet			Park bucket truck next to DMS structure in median. Park next to cabinet in median.
102	Rt 114 Middletown	Camera Cabinet			Park bucket truck in Staples parking lot adjacent to camera pole. Park in Staples parking lot adjacent to camera pole.
103	Rt 114 @ Evergreen Ave	Camera/Cabinet			Pull into laundromat parking lot.
104	Rt 37 @ I-295	Camera/Cabinet	Y		Park on grass near camera pole.
105	Rt 37 West before I-295	Camera Cabinet		Type 4	Park bucket truck on shoulder adjacent to camera pole. Park on grass before camera, walk to cabinet.
106	Rt 37 @ Rt 2	Camera/Cabinet	Y		Park on grass near camera pole behind guardrail.
107	Rt 37 @ Pontiac Ave	Camera/Cabinet	Y		Park next to camera pole.
108	Rt 37 @ Post Rd	Camera/Cabinet	Y		Park on shoulder next to camera pole on Post Rd.
109	Rt 5 @ Phenix Ave	Camera Cabinet		Type 7	Park bucket truck in right lane. Park in supermarket parking lot.
110	Rt 5 @ Metro Center Blvd.	Camera/Cabinet	Y		Park next to camera pole.
111	Rt 5 @ Rt 113	Camera/Cabinet			Park next to camera pole.
112	Rt 44 @ I-295	Camera Cabinet		Type 10	Park bucket truck in right lane at top of ramp adjacent to camera pole.
113	Rt 44 @ Rt 5	Camera Cabinet		Type 10 Type 4	Park bucket truck in right lane at top of ramp adjacent to camera pole. Park bucket truck on shoulder adjacent to camera pole. Park in gas station parking lot, walk to cabinet.
114	Rt 2 McLife	Camera Cabinet		Type 2	Park bucket truck on shoulder adjacent to camera pole. Park in nearby parking lot and walk to cabinet.
115	Rt 2 @ I-295	Camera Cabinet		Type 2	Park bucket truck on shoulder adjacent to camera pole. Park on grass off Rt 2 to I-295 NB on ramp.
116	Airport Connector	Camera Cabinet		Type 3	Park bucket truck next to guardrail adjacent to camera. Park next to cabinet on grass.
117	700 Allens Ave DPW	Camera Cabinet		Type 7	Park bucket truck on sidewalk, straddle curb. Access equipment inside Providence DPW building top floor. (Arrange for access through TMC in advance.)
118	Connell Highway Newport	Camera Cabinet		Type 4	Park bucket truck on shoulder adjacent to camera. Pull off road onto sidewalk and grass.
119	Rt 117 @ Park and Ride	Camera Cabinet			Pull off road onto grass and park bucket truck next to camera pole. Pull off road onto grass and park next to cabinet.
120	Mineral Spring Ave	Camera Cabinet		Type 4	Pull bucket truck up on sidewalk and straddle curb. Park in drug store parking lot and walk to cabinet.

	Camera	Location	Lowering Device?	MOT Req.	Site Access/Parking
121	Memorial @ Francis	Camera Cabinet		Type 5	Park bucket truck in right hand lane of I-95 exit ramp. Park on convention center access road.
122	Memorial @ Steeple St	Camera Cabinet		Type 9	Park bucket truck in right hand lane of Steeple St. Park next to cabinet on median.
123	Promenade @ Dean	Camera Cabinet		Type 1	Park bucket truck in median next to camera pole. Park in IHOP/Burger King parking lot.
124	North Main @ Branch	Camera Cabinet		Type 7	Park bucket truck on right lane of N. Main St adjacent to camera pole. Coordinate all work with fire station. Access cabinet from cemetery rotary and park next to cabinet.
125	North Main @ Doyle	Camera Cabinet		Type 8	Park bucket truck next to center median adjacent to camera pole. Park in University Heights shopping center parking lot and walk to cabinet.
126	Thurbers Ave @ Eddy St	Camera/Cabinet		Type 1	Park adjacent to camera pole.
127	Dean St off ramp	Camera/Cabinet			Park adjacent to camera pole.

Portable Variable Message Signs

	Portable VMS	Make	MOT Req.	Site Access/Parking
1	Route 4 North before Exit 5	ADDCO		Pull in after sign and back up to guardrail.
2	Route 78	ADDCO		Pull in after sign and back up to guardrail.
3	I-195 at Taunton Ave.	ADDCO		Pull in after sign and back up to guardrail.
4	Rt 24 SB before I-195 (Fall River, MA)	Daktronics		Pull off road and park behind guardrail.
5	Rt 146 SB before I-295	Daktronics		Pull as far off road as possible onto sidewalk/asphalt.
6	Rt 6 EB before I-295 (Hartford Ave)	Daktronics		Pull off road and park behind guardrail.
7	I-95 NB before Exit 3	Daktronics		Pull off road and park behind guardrail.
8	I-95 NB before Exit 5	Daktronics		Pull off road and park behind guardrail.
9	I-95 SB before I-295 (Attleboro, MA)	Daktronics		Pull off road and park behind guardrail.
10	I-95 SB before I-495 (Mansfield MA)	Daktronics		Pull off road and park behind guardrail.
11	I-295 SB before Exit 9	Daktronics		Pull off road and park behind guardrail.
12	I-295 SB before Exit 6	Daktronics		Pull off road and park behind guardrail.
13	I-295 SB before Exit 3	Daktronics		Pull off road and park behind guardrail.
14	I-295 NB before Exit 3	Daktronics		Pull off road and park behind guardrail.
15	I-295 NB before Exit 5	Daktronics		Pull off road and park behind guardrail.
16	I-295 NB before Exit 9	Daktronics		Pull off road and park behind guardrail.
17	I-495 SB before Rt 24 (Taunton, MA)	Daktronics		Pull off road and park behind guardrail.
18	I-495 SB before I-95 (Mansfield, MA)	Daktronics		Pull off road and park behind guardrail.

	HAR Transmitter	Abbr.	MOT Req.	Site Access/Parking
1	Narragansett	NG		Park in parking lot next to transmitter.
2	Westerly	WS		Park in CVS parking lot.
3	Richmond	RM		Park on grass next to transmitter.
4	South Kingstown	SK		Park on grass next to transmitter
5	Lincoln	LN		Park in rest area next to transmitter
6	Warwick	WW		Park behind guardrail next to transmitter (across from Rt. 2 to I-95 S on ramp).
7	North Kingstown	NK		Park on grass behind guardrail next to DMS cabinet.
8	Newport	NP		Park on closed portion of Rt. 138. Walk to cabinet.
9	Providence	PV		Park behind guardrail next to cabinet.
10	Johnston	JN		Park in the strip mall parking lot.
11	Tiverton	TV		Park near SE corner of Main Rd. Bridge.
12	Cranston	CR		Park in median on Rt. 37 East near Rt. 2.
13	Pawtucket	PT		Access from Middle St. Park next to fenced-in area.
P-1	Lincoln (Portable SolarMax)	P-LN		Park next to SolarMax on grass. At I-295 North rest Area (Exit 10)
P-2	Warwick (Portable SolarMax)	P-WW		Park in Maintenance Facility parking lot.
P-3	Westerly (Portable SolarMax)	P-WS		Park in Maintenance Facility parking lot.

	HAR Beacon	TX	MOT Req.	Site Access/Parking
1	I-95 North	PV	Type 3	To access beacon controller, park off road onto grass near beacon sign. (To access beacons, park bucket truck on shoulder adjacent to beacon sign.)
2	I-95 South	PV		Near Exit 25 onramp from Smithfield Ave.
3	I-195 West	PV	Type 3	Park on shoulder next to beacon sign.
4	I-295 North	LN		Pull off road onto grass next to beacon sign.
5	I-295 South	LN		Pull off road onto grass next to beacon sign.
6	Rt. 146 South	LN		Park on grass median behind guardrail next to beacon sign.
7	Rt. 146 North	LN		Park on grass after beacon sign.
8	I-95 North	WW		Park on grass before guardrail.
9	I-95 South	WW		Park on grass next to beacon sign.
10	Rt. 4 North	WW		Back up behind guardrail and park on gravel next to beacon sign.
11	I-95 North	CR		Before Exit 13; park on shoulder.
12	I-95 South	CR		Before Exit 15; park on shoulder.
13	I-295 North	CR		Before Exit 3; park on shoulder.
14	I-295 South	CR		Before Exit 3; park on shoulder.
15	Route 37 West at Exit 4B	CR		Park on shoulder.
16	Route 37 West at Exit 2A	CR		Park next to sign. MOT Required.
17	Route 37 East at I-295	CR		Park behind guardrail.
18	Route 37 East at Route 2	CR		Park behind guardrail.
19	Rt. 138 East - Jamestown Toll Plaza	NP		Park on grass next to beacon sign.
20	Rt. 138 East - Ramp to Adm Kalbfus Rd.	NP		Park on grass next to beacon sign.
21	Codrigton Highway	NP		Park on grass next to beacon sign.
22	Rt. 138 West - East Main Road	NP	Type 5	To access beacon controller, park off road onto grass near beacon sign. (To access beacons, park bucket truck in right lane adjacent to beacon sign.)
23	Rt. 114 SB North of Valley Rd.	NP	Type 5	To access beacon controller, park off road onto grass near beacon sign. (To access beacons, park bucket truck in right lane adjacent to beacon sign.)
24	Rt. 138 and Rt. 114 North	NP	Type 4	To access beacon controller, park off road onto grass near beacon sign. (To access beacons, park bucket truck on shoulder adjacent to beacon sign.)

	HAR Beacon	TX	MOT Req.	Site Access/Parking
25	I-95 North	RM		Park on grass next to beacon sign.
26	I-95 South	RM		Park on grass next to beacon sign.
27	Rt. 4 South	SK		Park on grass next to beacon sign.
28	Rt. 1 South	SK		Park on grass median next to beacon sign.
29	Rt. 1 North	SK		Park on grass next to beacon sign.
30	Rt. 138 West	SK		Park on grass next to beacon sign.
31	Rt. 108 North	NG		Park on grass after beacon sign.
32	Rt. 108 South	NG	Type 2	Park on shoulder
33	Galilee Road Eastbound	NG		Park on grass next to beacon sign.
34	Galilee Road Westbound	NG	Type 2	Straddle curb on sidewalk/shoulder.
35	Route 24 North (Portsmouth)	TV		Park on shoulder.
36	Route 24 South	TV		Park on shoulder.
37	Route 138 North (Portsmouth)	TV		Park on grass next to sign.
38	Route 114 South (Bristol)	TV		Park on grass next to sign.
39	Rt. 78	WS	Type 3	Park in shoulder adjacent to beacon sign.
40	Rt. 1 South	WS		Park on grass next to beacon sign.
41	Rt. 4 North	NK		Park on grass next to beacon sign.
42	Rt. 6 East	IN		Park off road next to beacon sign.

**SPECIFICATIONS – JOB SPECIFIC INDEX**

<b><u>ITEM CODE</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PAGE</u></b>
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T12.9901	CCVE Inspection and Cleaning Program – with Lowering Device .....	JS-23
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T12.9910	Flatbed Truck with Lift and Operator .....	JS-30

**JOB SPECIFIC**

**937.9901**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 1**

**937.9902**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 2**

**937.9903**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 3**

**937.9904**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 4**

**937.9905**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 5**

**937.9906**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 6**

**937.9907**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 7**

**937.9908**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 8**

**937.9909**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 9**

**937.9910**

**MAINTENANCE AND PROTECTION OF TRAFFIC - TYPE 10**

**DESCRIPTION:** This work shall consist of the furnishing Maintenance and Protection of Traffic Devices and personnel for work performed by the Contractor at various locations as directed by the Engineer. This work shall include all devices including but not limited to traffic cones, construction signs, barrels, flaggers, flashing arrow panels and truck mounted attenuators. This work shall also include the all personnel and equipment for the set-up and removal of said devices at the locations and time periods approved by the Engineer.

**MATERIALS:** All maintenance and protection of traffic devices and plans shall be those meeting the criteria of the Manual on Uniform Traffic Control Devices for Streets and Highways, 2003 Edition, the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, 2004 Edition and the Rhode Island Department of Transportation Standard Details, 1998 Edition with all revisions.

**CONSTRUCTION METHODS:** At all work sites where maintenance and protection of traffic is required to maintain a safe work zone, the Contractor shall establish temporary traffic control zones by applying the principles and standards for maintenance and protection of traffic defined in the Manual on Uniform Traffic Control Devices for Streets and Highways, 2003 Edition (MUTCD). The following maintenance and protection of traffic plans shall apply, based upon the Typical Applications identified in Chapter 6H of the MUTCD, as modified herein:

1. Maintenance and Protection of Traffic – Type 1
  - Work Beyond the Shoulder – Typical Application 1 (TA-1) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions.

**Notes for Figure 6H-1 – Typical Application 1  
Work Beyond the Shoulder**

**Guidance:**

1. If the work space is in the median of a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.

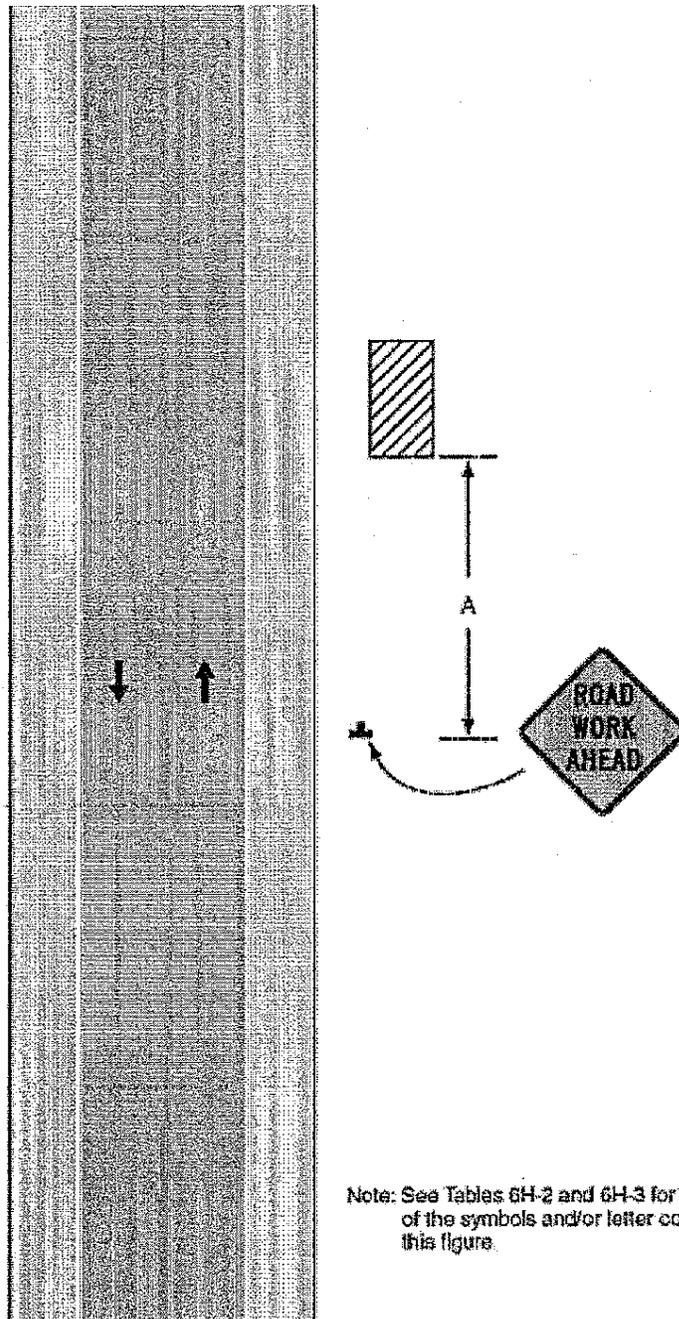
**Option:**

2. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 600 mm (24 in) behind the curb, or 4.6 m (15 ft) or more from the edge of any roadway.
4. For short-term or short-duration operations, all signs and channelizing devices may be eliminated if a vehicle with activated rotating lights or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement rotating lights or strobe lights.

**Standard:**

6. **Vehicle hazard warning signals shall not be used instead of the vehicle's rotating lights or strobe lights.**

Figure 6H-1. Work Beyond the Shoulder (TA-1)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 1

2. Maintenance and Protection of Traffic – Type 2
  - Work on Shoulders – Typical Application 3 (TA-3) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions.

**Notes for Figure 6H-3– Typical Application 3  
Work on Shoulders**

**Guidance:**

1. A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

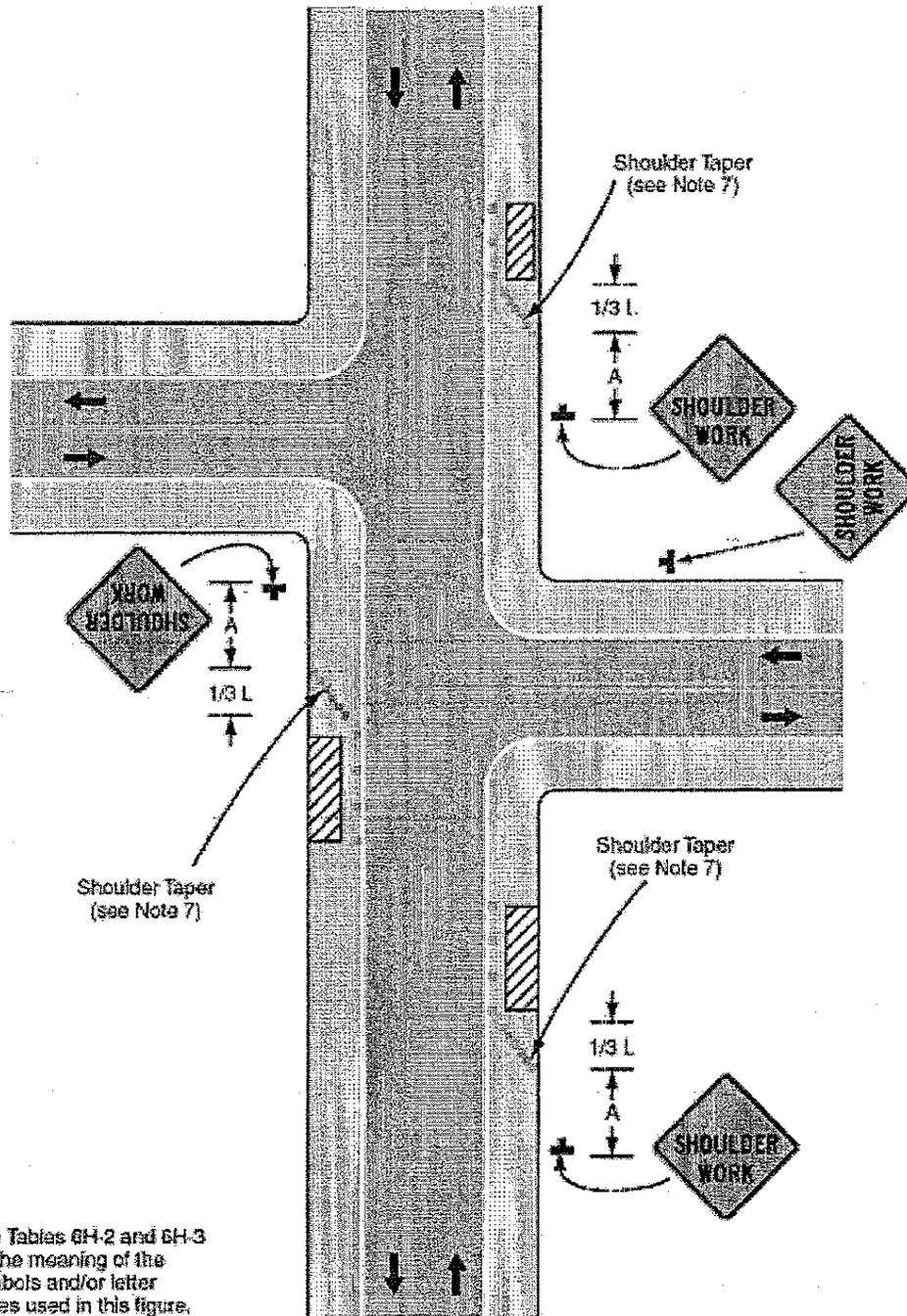
**Option:**

2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short-duration operations lasting up to 1 hour where paved shoulders having a width of less than 2.4 m (8 ft) are closed, all signs and channelizing devices may be eliminated if a vehicle with activated rotating lights or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement rotating lights or strobe lights.

**Standard:**

6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**
7. **When paved shoulders having a width of 2.4 m (8 ft) or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.**

Figure 6H-3. Work on Shoulders (TA-3)



Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 3

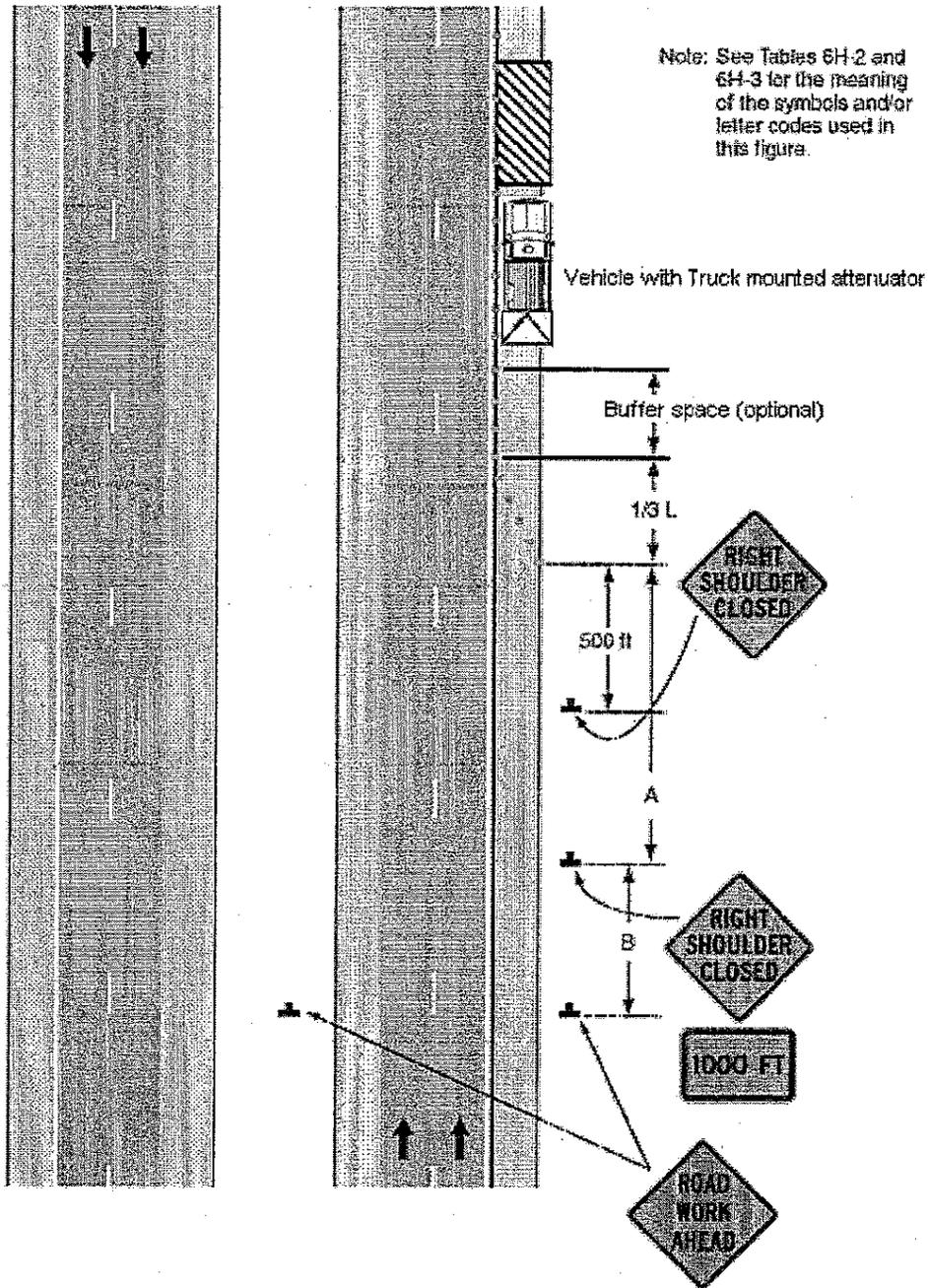
3. Maintenance and Protection of Traffic – Type 3
  - Shoulder Closure on Freeway – Typical Application 5 (TA-5) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions.

**Notes for Figure 6H-5 – Typical Application 5  
Shoulder Closure on Freeway**

Guidance:

1. SHOULDER CLOSED signs should be used on limited-access highways where there is no opportunity for disabled vehicles to pull off the roadway.
2. If drivers cannot see a pull-off area beyond the closed shoulder, information regarding the length of the shoulder closure should be provided in meters or kilometers (feet or miles), as appropriate
3. Additional temporary traffic control signs at an appropriate spacing should be installed on all on-ramps that intersect the advance warning area.
4. For short-duration work, the ROAD WORK AHEAD sign on the left side of the freeway may be omitted if high-intensity rotating, flashing, oscillating, or strobe lights are used on work vehicles.

Figure 6H-5. Shoulder Closure on Freeway (TA-5)



Typical Application 5

4. Maintenance and Protection of Traffic – Type 4
  - Shoulder Work with Minor Encroachment – Typical Application 6 (TA-6) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions.

**Notes for Figure 6H-6– Typical Application 6  
Shoulder Work with Minor Encroachment**

**Guidance:**

1. All lanes should be a minimum of 3 m (10 ft) in width as measured to the near face of the channelizing devices.
2. A work vehicle parked in the work space should display activated high-intensity rotating, flashing, oscillating, or strobe lights.

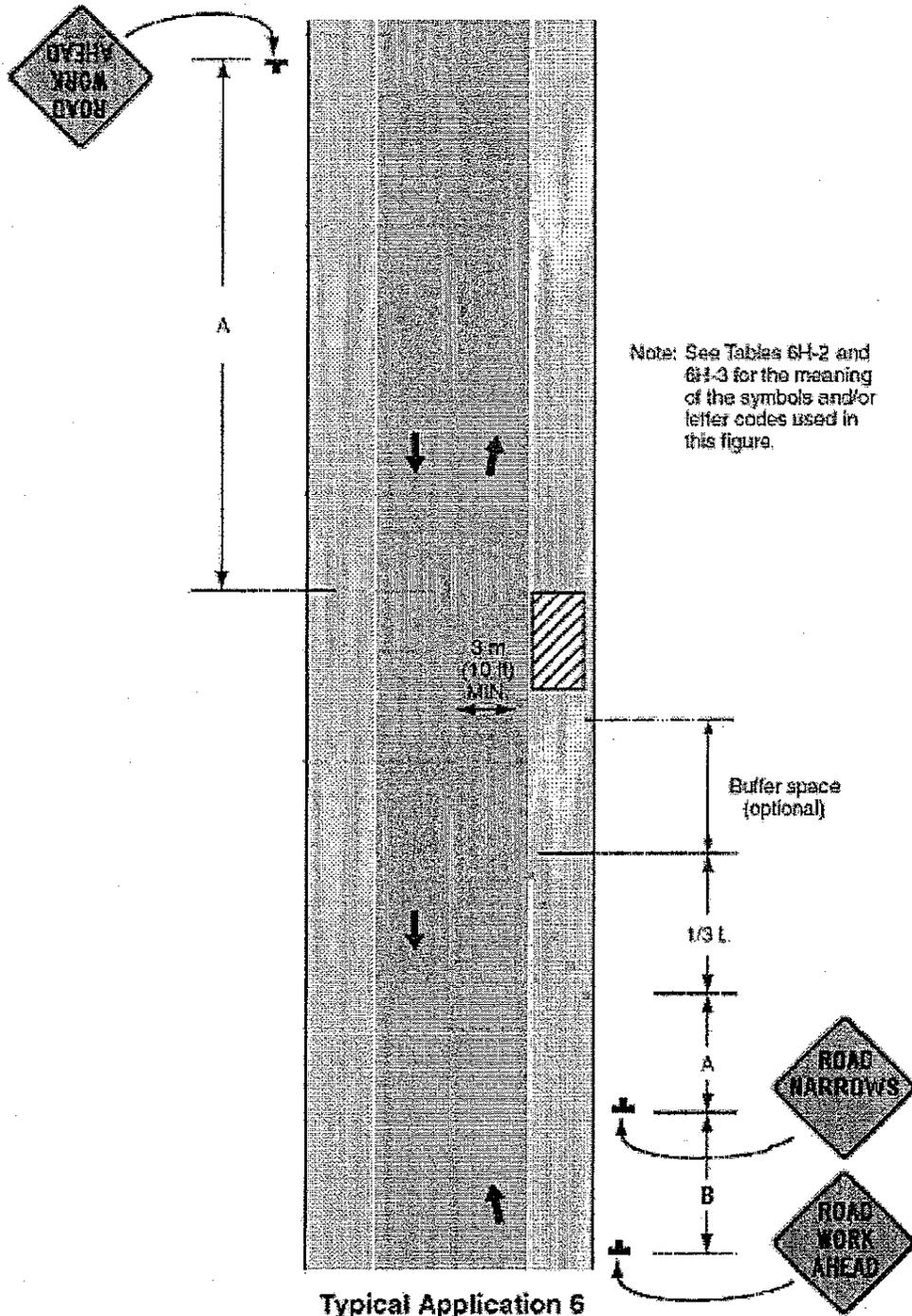
**Option:**

3. Where the opposite shoulder is suitable for carrying vehicular traffic and of adequate width, lanes may be shifted by use of closely spaced channelizing devices, provided that the minimum lane width of 3 m (10 ft) is maintained and all appropriate warning signs are installed.
4. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

**Standard:**

5. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**

Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)



5. Maintenance and Protection of Traffic – Type 5
  - Lane Closure on Multilane Non-Access Controlled Highway – Typical Application 33a (TA-33a) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions.

**Notes for Figure 6H-33a – Typical Application 33a  
Lane Closure on Multilane Non-Access Controlled Highway**

**Standard:**

1. When a side road intersects the highway within the temporary traffic control zone, additional temporary traffic control devices shall be placed as needed.
2. Access to and egress from all side roads and driveways shall be maintained during the temporary traffic control set up.

**Guidance:**

3. Channelizing devices should be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.
4. Channelizing device layout and spacing should be adjusted as necessary to provide clear delineation and channelization for all side roads.



6. Maintenance and Protection of Traffic – Type 6
  - Lane Closure on Freeway – Typical Application 33b (TA-33b) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions.

**Notes for Figure 6H-33b – Typical Application 33b  
Lane Closure on Freeway**

**Standard:**

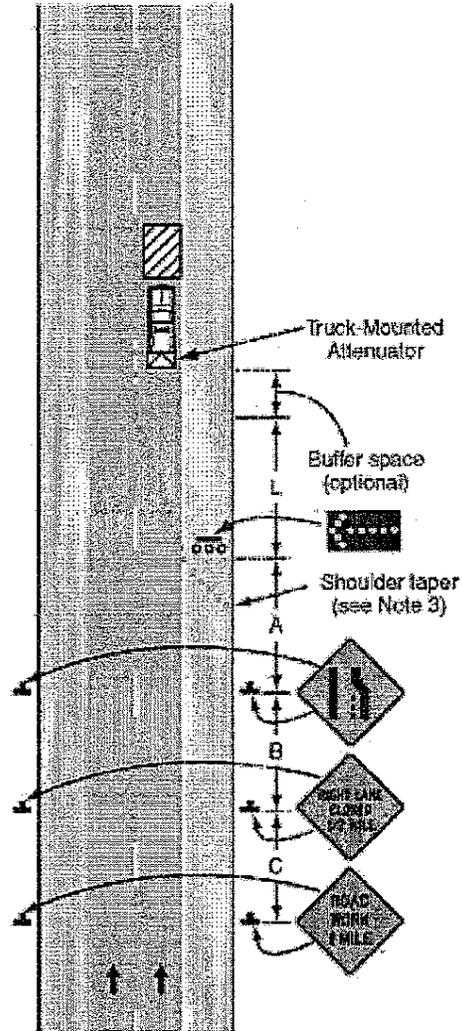
1. **This information also shall be used when work is being performed in the lane adjacent to the median on a divided highway. In this case, the LEFT LANE CLOSED signs and the corresponding Lane Ends signs shall be substituted.**
2. **When a side road or ramp intersects the highway within the temporary traffic control zone, additional temporary traffic control devices shall be placed as needed.**

**Guidance:**

3. When paved shoulders having a width of 2.4 m (8 ft) or more are closed, channelizing devices should be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

Figure 6H-33b. Lane Closure on Freeway (TA33b)

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.



Typical Application 33b

7. Maintenance and Protection of Traffic – Type 7
  - Work on Far Side of Intersection – Typical Application 22 (TA-22) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions.

**Notes for Figure 6H-22 – Typical Application 22  
Work on Far Side of Intersection**

**Guidance:**

1. The work space should not extend across any crosswalks.
2. Activated high-intensity rotating, flashing, oscillating, or strobe lights should be used on work vehicles in the work space.

**Option:**

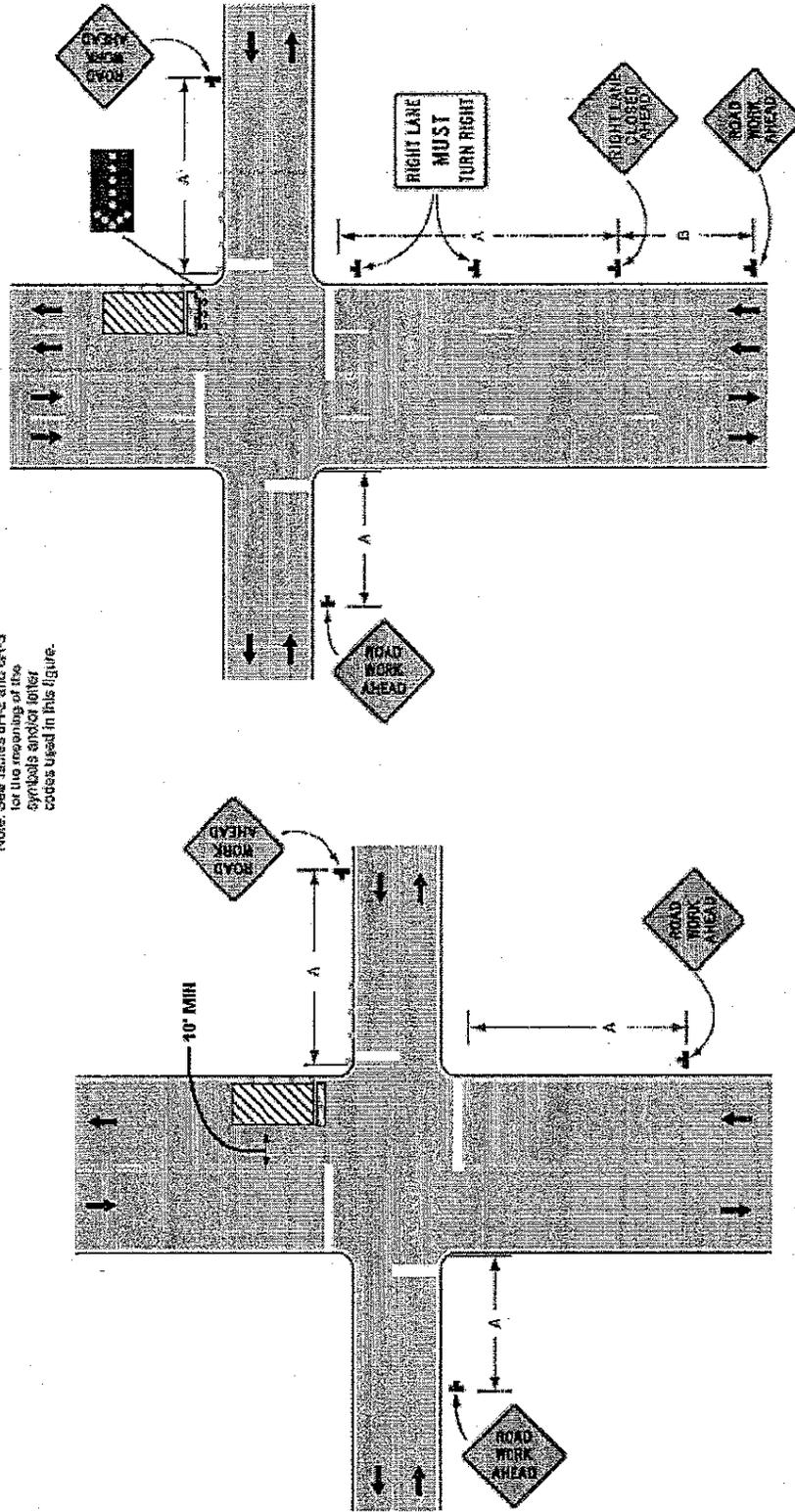
3. For work on a roadway with one thru lane in each direction, where the opposite shoulder is suitable for carrying vehicular traffic and of adequate width, lanes may be shifted by use of closely spaced channelizing devices, provided that the minimum lane width of 3 m (10 ft) is maintained and all appropriate warning signs are installed.
4. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

**Standard:**

5. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**

Figure 8H-22. Work on Far Side of Intersection (TA-22)

Note: See Tables 8H-2 and 8H-3 for the meanings of the symbols and/or letter codes used in this figure.



Work on Roadway with Two Thru Lanes in Each Direction

Work on Roadway with One Thru Lane in Each Direction

Typical Application 22

8. Maintenance and Protection of Traffic – Type 8
- Work in Center of Intersection – Typical Application 26 (TA-26) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions.

**Notes for Figure 6H-26 – Typical Application 26  
Work in Center of Intersection**

**Guidance:**

1. All lanes should be a minimum of 3 m (10 ft) in width as measured to the near face of the channelizing devices.
2. The work space should not extend across any crosswalks.
3. Activated high-intensity rotating, flashing, oscillating, or strobe lights should be used on the work vehicle.

**Option:**

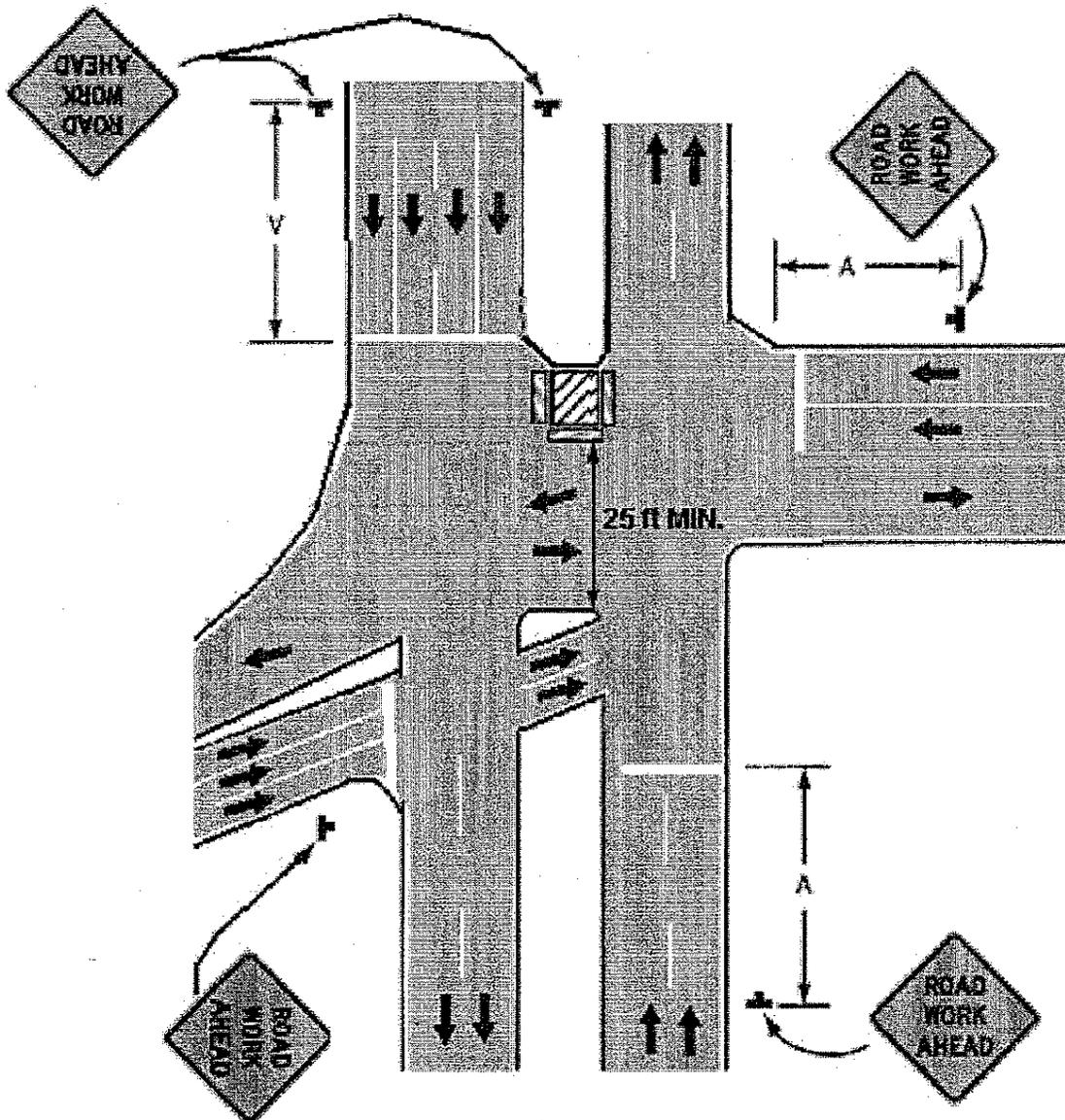
4. For short-duration work operations, the barricades may be eliminated if a vehicle displaying high-intensity rotating, flashing, oscillating, or strobe lights is positioned in the work space.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

**Standard:**

6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**

**Figure 6H-26. Work in Center of Intersection (TA-26)**

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.



*Intersection with Four Approaches*

9. Maintenance and Protection of Traffic – Type 9
  - Lane Closure on Near Side of Intersection – Typical Application 21 (TA-21) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions.

**Notes for Figure 6H-21 – Typical Application 21  
Lane Closure on Near Side of Intersection**

**Guidance:**

1. The work space should not extend across any crosswalks.
2. Activated high-intensity rotating, flashing, oscillating, or strobe lights should be used on the work vehicle.

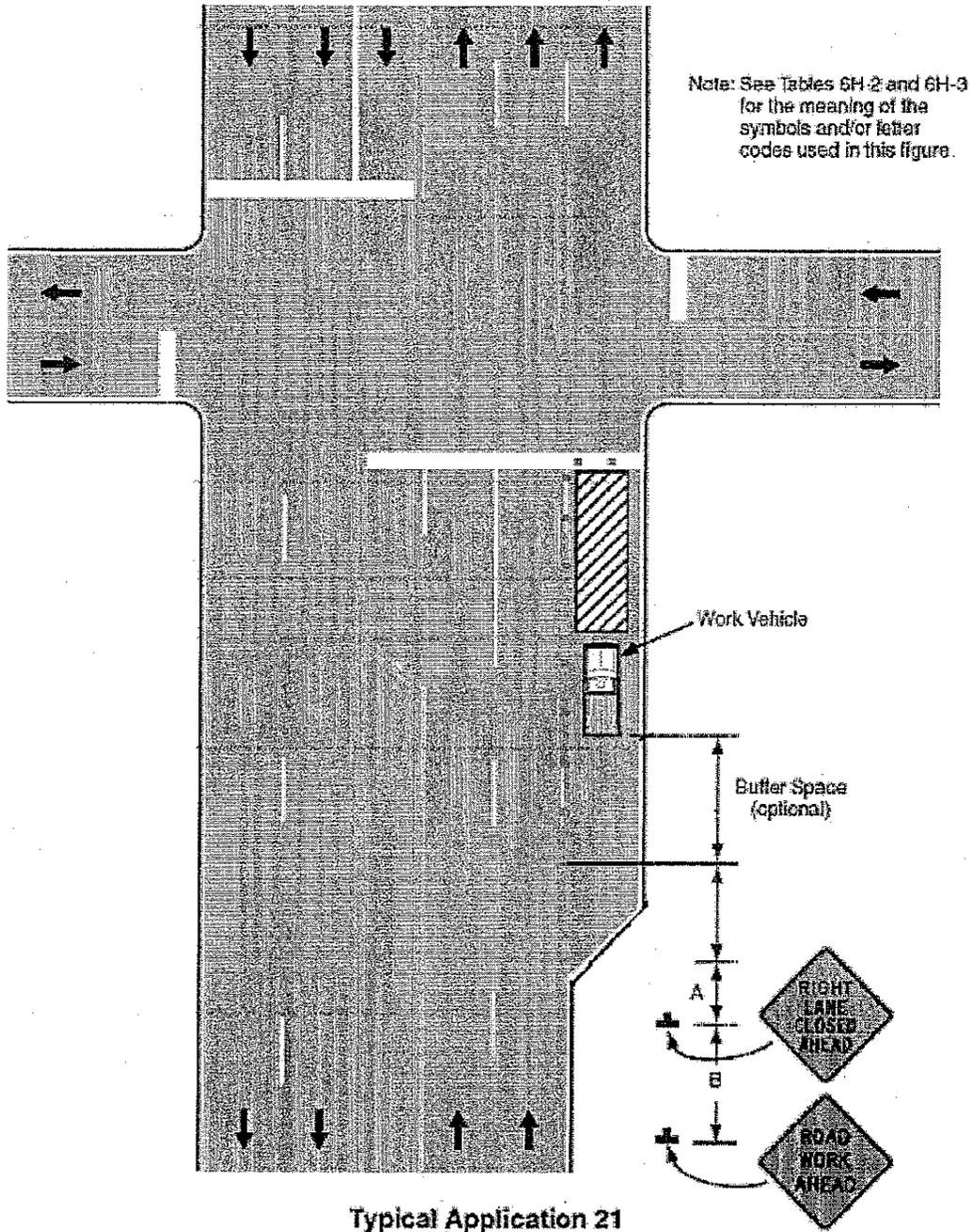
**Option:**

3. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

**Standard:**

4. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**

Figure 6H-21. Lane Closure on Near Side of Intersection (TA-21)



10. Maintenance and Protection of Traffic – Type 10

- Work in Vicinity of Entrance Ramp – Typical Application 44 (TA-44) as defined in the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition with all revisions

**Notes for Figure 6H-44 – Typical Application 44  
Work in Vicinity of Entrance Ramp**

**Standard:**

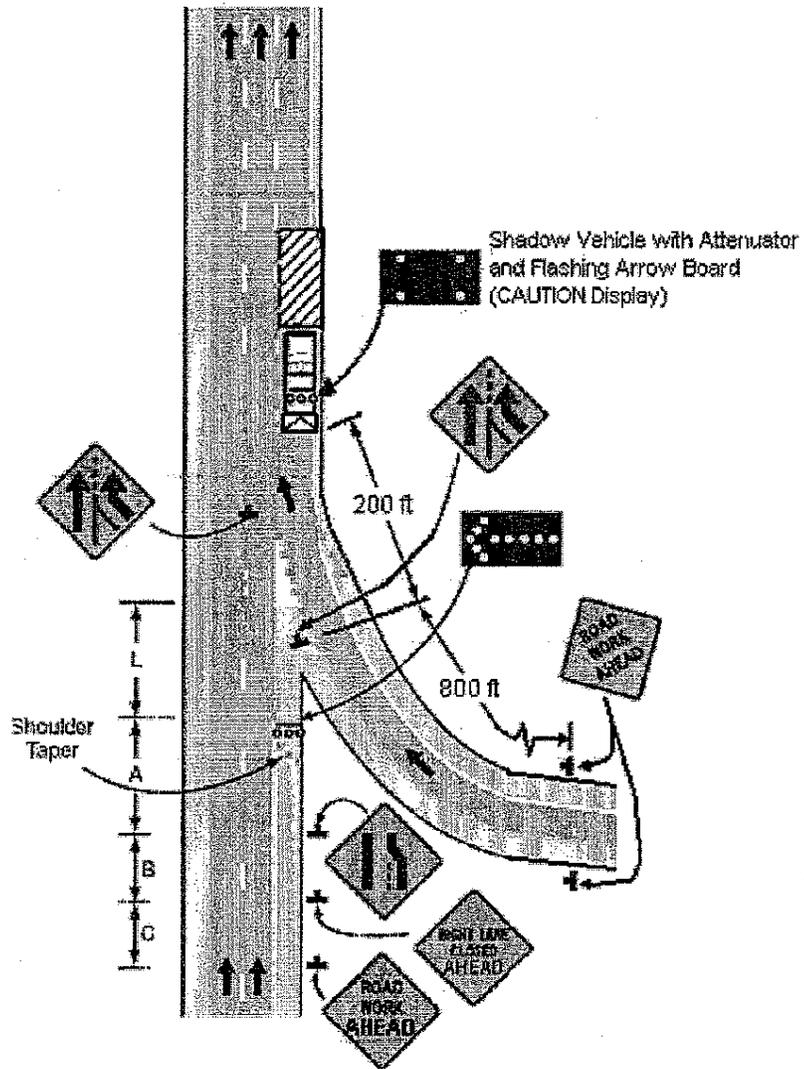
1. All existing YIELD and MERGE signs (not shown in Figure) shall be covered as part of this set-up.

**Guidance:**

2. The mainline merging taper with the arrow panel at its starting point should be located sufficiently in advance so that the arrow panel is not confusing to drivers on the entrance ramp.

Figure 6H-44. Work in Vicinity of Entrance Ramp (TA-44)

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.



Typical Application 44

**METHOD OF MEASUREMENT:**

“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 1”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 2”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 3”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 4”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 5”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 6”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 7”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 8”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 9”,  
and “MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 10” shall be measured by  
“EACH” unit as directed by the Engineer

**BASIS OF PAYMENT:**

The accepted quantity of “MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 1”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 2”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 3”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 4”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 5”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 6”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 7”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 8”,  
“MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 9”,  
and “MAINTENANCE AND PROTECTION OF TRAFFIC – TYPE 10” will be paid for at the  
contract unit bid price per “EACH”. The payment constitutes full compensation for all labor,  
equipment, tools, signs, cones, barrels, flashing arrow boards, truck mounted attenuators,  
personnel, accessories, including hardware, and incidentals necessary to complete the work in  
accordance with this Special Provision, completed and accepted by the Engineer.

**JOB SPECIFIC**

**T12.9901**

**CCVE INSPECTION AND CLEANING PROGRAM – WITH LOWERING DEVICE**

**T12.9902**

**CCVE INSPECTION AND CLEANING PROGRAM - WITHOUT LOWERING DEVICE**

**DESCRIPTION:** This item specifies the requirements for cleaning the CCTV Domes under the CCVE Inspection and Cleaning Program. The CCVE Domes shall be cleaned semi annually as directed by the TMC. Some of the CCVE Domes are connected to lowering devices and can be lowered to ground level for cleaning, while others require the use of a bucket truck. The vast majority of pole mounted cameras that require a bucket truck for cleaning are at heights at or below 35 feet while a few are at heights of approximately 50 feet.

**MATERIALS:** The contractor shall clean the CCVE Domes on the inside and outside of the dome with a non-abrasive cleaner and cotton towels approved by the TMC. No paper towels will be allowed.

**CONSTRUCTION METHODS:** The Contractor shall schedule the dome cleaning semi annually as required and shall work continuously during regular weekday business hours to clean all the camera domes until complete. The contractor may suspend cleaning activities to respond to emergency response calls related to this contract but must resume cleaning activities immediately thereafter.

As part of the inspection and cleaning of each camera, the Contractor shall remove the camera from the camera back box, and shall inspect the camera and back box for evidence of water intrusion and corrosion on all terminations. Any service requirements identified as part of the inspection shall be noted by the Contractor and reported to the TMC in an inspection summary report at the completion of the dome cleaning cycle.

The Contractor is required to provide Maintenance and Protection of Traffic as detailed in Part 6 of the Manual of Uniform Traffic Control Devices for Streets and Highways, 2003 Edition, including all updates, as part of this item. This shall include all recommended equipment as designated in the MUTCD including but not limited to cones, barrels, signs, flagpersons, barricades, and truck mounted attenuators.

**METHOD OF MEASUREMENT:** “CCVE INSPECTION AND CLEANING PROGRAM– WITH LOWERING DEVICE” and “CCVE INSPECTION AND CLEANING PROGRAM– WITHOUT LOWERING DEVICE” shall be measured for payment by the unit “EACH” complete in place and accepted.

**BASIS OF PAYMENT:** “CCVE INSPECTION AND CLEANING PROGRAM – WITH LOWERING DEVICE” and “CCVE INSPECTION AND CLEANING PROGRAM – WITHOUT LOWERING DEVICE” will be paid for at the contract unit price bid for “EACH”, which price shall include all necessary equipment (including bucket truck), labor, tools, maintenance and protection of traffic, and work thereto complete in place and accepted by the TMC.

**JOB SPECIFIC****T12.9903****CCVE DOME CLEANING – WITH LOWERING DEVICE****T12.9904****CCVE DOME CLEANING - WITHOUT LOWERING DEVICE**

**DESCRIPTION:** This item specifies the requirements for cleaning the CCTV Domes on an on-call basis as directed by the TMC. The work under this item shall be separate from the CCVE Inspection and Cleaning Program. Some of the CCTV Domes are connected to lowering devices and can be lowered to ground level for cleaning, while others require the use of a bucket truck. The vast majority of pole mounted cameras that require a bucket truck for cleaning are at heights at or below 35 feet while a few are at heights of approximately 50 feet.

**MATERIALS:** The contractor shall clean the CCTV Domes on the inside and outside of the dome with a non-abrasive cleaner and cotton towels approved by the TMC. No paper towels will be allowed.

**CONSTRUCTION METHODS:** The contractor may suspend cleaning activities to respond to emergency response calls related to this contract but must resume cleaning activities immediately thereafter.

The Contractor is required to provide Maintenance and Protection of Traffic as required at the site of the camera being cleaned, but said Maintenance and Protection of Traffic will be paid for under a separate bid item and is not included in this bid item for CCVE Dome Cleaning.

**METHOD OF MEASUREMENT:** "CCTV DOME CLEANING – WITH LOWERING DEVICE" and "CCTV DOME CLEANING – WITHOUT LOWERING DEVICE" shall be measured for payment by the unit "EACH" complete in place and accepted.

**BASIS OF PAYMENT:** "CCTV DOME CLEANING – WITH LOWERING DEVICE" and "CCTV DOME CLEANING – WITHOUT LOWERING DEVICE" will be paid for at the contract unit price bid for "EACH", which price shall include all necessary equipment (including bucket truck), labor, tools, and work thereto complete in place and accepted by the TMC.

Maintenance and Protection of Traffic shall be paid separately during these activities under the item for the type of MOT required.

**JOB SPECIFIC**

**T12.9905**

**CHARGE SOLAR POWERED EQUIPMENT BATTERIES**

**DESCRIPTION:** This item specifies the requirements for charging the batteries at the solar powered portable variable message signs (PVMS) and portable highway advisory radios (HAR) on an on-call basis.

**CONSTRUCTION METHODS:** Under this item the contractor shall charge through the use of a portable generator the PVMS or Portable HAR batteries until the battery indicator on the sign/HAR reads fully charged. This may involve leaving the portable generator at the PVMS/HAR site for extended hours in order to fully charge the batteries.

The Contractor is required to provide Maintenance and Protection of Traffic as required at the site of battery charging, but said Maintenance and Protection of Traffic will be paid for under a separate bid item and is not included in this bid item for Charge Solar Powered Equipment Batteries.

**METHOD OF MEASUREMENT:** "CHARGE SOLAR POWERED EQUIPMENT BATTERIES" shall be measured for payment by the unit "EACH" complete in place and accepted.

**BASIS OF PAYMENT:** "CHARGE SOLAR POWERED EQUIPMENT BATTERIES" will be paid for at the contract unit price bid for "EACH", which price shall include all necessary equipment, labor, tools, and work thereto complete in place and accepted by the TMC.

Maintenance and Protection of Traffic shall be paid separately during these activities under the item for the type of MOI required.

**JOB SPECIFIC**

**T12.9906**

**REPLACE EXISTING FLASHING BEACONS WITH YELLOW LED MODULE**

**DESCRIPTION:** This item specifies the requirements for replacing the existing incandescent beacon heads located on the HAR signs with a beacon head with an amber LED module.

**MATERIALS:** The contractor shall provide a beacon head with a 12 inch yellow LED module which conforms to the applicable requirements of **Section M.15.15 VEHICULAR SIGNAL HEADS** of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition as amended.

**CONSTRUCTION METHODS:** The Contractor shall remove and dispose of the existing incandescent beacon head and install a beacon head with yellow LED module in accordance with the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition as amended at the locations directed by the TMC.

The Contractor is required to provide Maintenance and Protection of Traffic as required at the site of LED module replacement, but said Maintenance and Protection of Traffic will be paid for under a separate bid item and is not included in these bid items for Replace Existing Flashing Beacons with Yellow LED Module.

**METHOD OF MEASUREMENT:** "REPLACE EXISTING FLASHING BEACONS WITH YELLOW LED MODULE" shall be measured for payment by the unit "EACH" complete in place and accepted.

**BASIS OF PAYMENT:** "REPLACE EXISTING FLASHING BEACONS WITH YELLOW LED MODULE" will be paid for at the contract unit price bid for "EACH", which price shall include all necessary equipment, labor, tools, and work thereto complete in place and accepted by the TMC.

Maintenance and Protection of Traffic shall be paid separately during these activities under the item for the type of MOI required.

**JOB SPECIFIC**

**T12.9907**

**RELAMP EXISTING LED MODULE ON HAR SIGNS**

**DESCRIPTION:** This item specifies the requirements for replacing the yellow LED module in an existing LED beacon head on the HAR signs.

**MATERIALS:** The contractor shall provide a 12 inch yellow LED module which conform to the applicable requirements of **Section M.15.15 VEHICULAR SIGNAL HEADS** of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition as amended.

**CONSTRUCTION METHODS:** The Contractor shall remove and dispose of a failed LED module from an existing beacon head and install a new yellow LED module in the existing beacon head in accordance with the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition as amended at the locations directed by the TMC.

The Contractor is required to provide Maintenance and Protection of Traffic as required at the site of LED module replacement, but said Maintenance and Protection of Traffic will be paid for under a separate bid item and is not included in these bid items for Relamp Existing LED Module on HAR Signs.

**METHOD OF MEASUREMENT:** "RELAMP EXISTING LED MODULE ON HAR SIGNS" shall be measured for payment by the unit "EACH" complete in place and accepted.

**BASIS OF PAYMENT:** "RELAMP EXISTING LED MODULE ON HAR SIGNS" will be paid for at the contract unit price bid for "EACH", which price shall include all necessary equipment, labor, tools, and work thereto complete in place and accepted by the TMC.

Maintenance and Protection of Traffic shall be paid separately during these activities under the item for the type of MOI required.

**JOB SPECIFIC**

T12.9908

**REGULAR HOURLY RATE FOR TROUBLESHOOTING AND REPAIR**

T12.9909

**OVERTIME HOURLY RATE FOR TROUBLESHOOTING AND REPAIR**

**DESCRIPTION:** This item specifies the requirements for charging hourly rates for troubleshooting and repair of the ITS field equipment on an on-call basis. Under this item, the Contractor will be paid for his time at the site. The Contractor will not be paid for travel time to and from the site.

**CONSTRUCTION METHODS:** Under this item the Contractor shall meet the response requirements as detailed in the general requirements of this contract. The Contractor shall provide individuals licensed in the State of Rhode Island for the work required.

The contractor must notify the TMC when he arrives on site for the trouble call. The contractor may not work a "typical day" and then respond to the trouble call later in the day and charge overtime hours. Overtime hours must be pre-approved by the TMC. Any overtime hours charged without pre-approval will be paid at the standard hourly rate. The contractor must also notify the TMC when he completes the work at the trouble call site and what conclusion was reached as a result of the contractors efforts.

The Contractor is required to provide Maintenance and Protection of Traffic as required at the site of service, but said Maintenance and Protection of Traffic will be paid for under a separate bid item and is not included in these bid items for Regular Hourly Rate for Trouble Shooting and Repair and Overtime Hourly Rate for Trouble Shooting and Repair.

**METHOD OF MEASUREMENT:** "REGULAR HOURLY RATE FOR TROUBLESHOOTING AND REPAIR" and "OVERTIME HOURLY RATE FOR TROUBLESHOOTING AND REPAIR" shall be measured for payment by the unit "HOURS" complete in place and accepted.

**BASIS OF PAYMENT:** "REGULAR HOURLY RATE FOR TROUBLESHOOTING AND REPAIR" and "OVERTIME HOURLY RATE FOR TROUBLESHOOTING AND REPAIR" will be paid for at the contract unit price bid for "HOURS", which price shall include all necessary equipment required to trouble shoot and repair the ITS field devices, labor, tools, and work thereto complete in place and accepted by the TMC.

Maintenance and Protection of Traffic shall be paid separately during these activities under the item for the type of MOT required.

**JOB SPECIFIC**

**T12.9910**

**FLATBED TRUCK WITH LIFT AND OPERATOR**

**DESCRIPTION:** This item specifies the requirements for a Flatbed Truck with Lift and Operator for moving large and heavy equipment required for the maintenance and repair of the systems covered under this contract. Under this item, the Contractor will be paid for the truck utilization time from arrival at the site where the equipment is picked up to departure at the site where the equipment is dropped off. The Contractor will not be paid for travel time to the pickup site or from the drop-off site.

**CONSTRUCTION METHODS:** The Contractor shall provide a Flat Bed Truck with Lift and Operator which meets the following requirements:

The Flatbed Truck with Lift and Operator must be capable of lifting and moving any of the field equipment covered under this contract for maintenance and repair, ranging in size up to and including a Portable Variable Message Sign.

The Flatbed Truck with Lift and Operator must include provisions to secure the equipment during transport to prevent movement of the equipment on the flatbed.

The Contractor is required to provide Maintenance and Protection of Traffic as required at the site of pick and the site of drop off, but said Maintenance and Protection of Traffic will be paid for under a separate bid item and is not included in this bid item for Flatbed Truck with Lift and Operator.

**METHOD OF MEASUREMENT:** "FLATBED TRUCK WITH LIFT AND OPERATOR" shall be measured for payment by the unit "HOURS" complete and accepted, and shall be measured from the time of arrival at the pickup site to the time of departure from the drop-off site.

**BASIS OF PAYMENT:** "FLATBED TRUCK WITH LIFT AND OPERATOR" will be paid for at the contract unit price bid for "HOURS", which price shall include all necessary equipment required to move equipment, labor, tools, and work thereto complete in place and accepted by the TMC.

Maintenance and Protection of Traffic shall be paid separately during these activities under the item for the type of MOI required.