PROJECT DESCRIPTION
GENERAL

This project involves the modification of the traffic signal at the intersection of MD 146 (Dulaney Valley Road) at Fairmount Avenue in Baltimore County.

INTERSECTION OPERATION

Intersection operation is to remain unchanged.
Existing cabinet/controller to be utilized.
APS 2-wire central control unit to be installed in cabinet.

SPECIAL NOTES
PROJECT CONTACTS:

1. The following contact persons for this project are as follows:
   Randall Scott, Assistant District Engineer - Traffic
   Phone: (410)-321-2781
   David Creighton, Assistant District Engineer - Construction
   Phone: (410)-321-2821
   Steven Marciszewski, Assistant District Engineer - Maintenance
   Phone: (410)-321-2761
   Michael Pasquariello, Utility Engineer
   Phone: (410)-321-2841
   Richard Daff, Chief - Traffic Operations
   Phone: 410-788-7630
   Edward Rodenhizer, Signal Operations
   Phone: (410)-787-7652

EQUIPMENT LIST

A. Equipment to be supplied by the administration.
None.

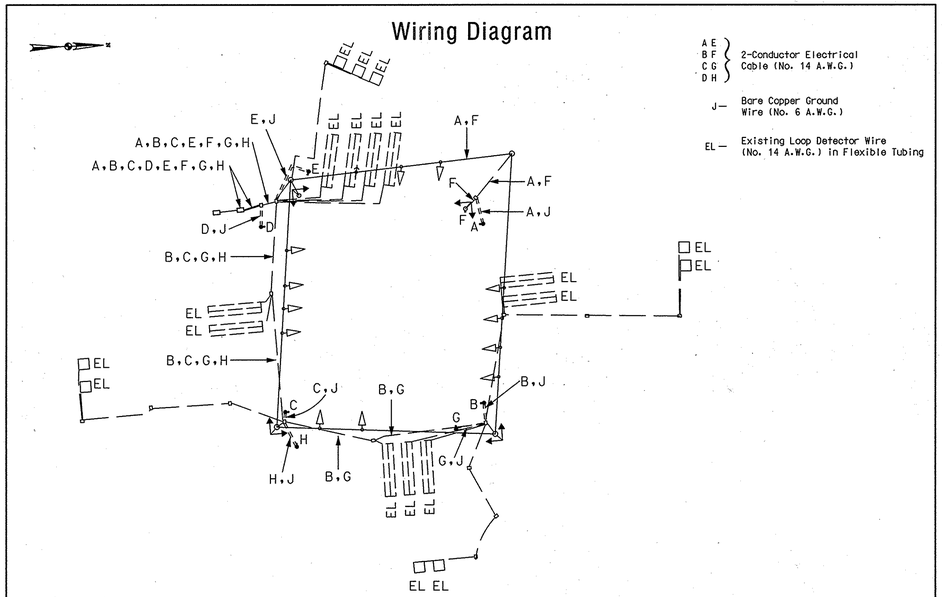
B. Equipment to be furnished and/or installed by the contractor.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
7	EA	818	5 ft. steel pedestal pole with break away transformer base.
2	EA	814	16 in., two-way, one section L.E.D. (Countdown indications) adjustable pedestrian signal head with pole mounting hardware and cut-away visors.
2	EA	814	16 in., two-way, one section L.E.D. (Countdown indications) adjustable pedestrian signal head with post top mounting hardware and cut-away visors.
1	EA	817	Central Control Unit for audible pedestrian pushbutton.
8	EA	817	Audible pedestrian pushbutton assembly with a 9 in. x 15 in. R10-3(I) pushbutton sign.
7	CY	205	Test pit excavation.
1840	LF	810	2-conductor electrical cable (No. 14 A.W.G.).
110	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
55	LF	805	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
45	LF	805	2 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
7	CY	801	Concrete foundation for traffic signal equipment.
850	LF	549	12 in. wide HAPPTPM - white for crosswalk.
200	LF	549	24 in. wide HAPPTPM - white for stop line.
1	LS	---	Remove and dispose of existing signal equipment.

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1 AND 5	←G–	←G–	R	R	←G–	←G–	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																				
PHASE 1 AND 6	←G–	←G–	G	G	←R–	←R–	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	←Y–	←Y–	G	G	←R–	←R–	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	←R–	←R–	R	R	←G–	←G–	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
5 CHANGE	←R–	←R–	R	R	←Y–	←Y–	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	W/K	W/K	W/K	W/K	D/W	D/W	D/W	D/W
PED CLEARANCE	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 AND 6 CHANGE	←R–	←R–	Y	Y	←R–	←R–	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7	←R–	←R–	R	R	←R–	←R–	R	R	←R/G	R	←R/G	R	DW	DW	DW	DW	DW	DW	DW	DW
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8																				
PHASE 3 AND 8	←R–	←R–	R	R	←R–	←R–	R	R	←G/G	G	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	←Y/G	G	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	←R–	←R–	R	R	←R–	←R–	R	R	R	R	←G/G	G	DW	DW	DW	DW	DW	DW	DW	DW
7 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	R	R	←Y/G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT AND 8 ALT	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	DW	DW	DW	DW	W/K	W/K	W/K	W/K
PED CLEARANCE	←R–	←R–	R	R	←R–	←R–	R	R	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
ALT 4 AND 8 ALT CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/ ←R–	FL/ ←R–	FL/Y	FL/Y	FL/ ←R–	FL/ ←R–	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK
PRE EMPTION	←R–	←R–	R	R	←R–	←R–	R	R	R	R	←G/G	G	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

Wiring Diagram



NOTE: Use existing 5-conductor for all pedestrian signal heads

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 146 (Dulaney Valley Rd) @ Fairmount Avenue

GENERAL INFORMATION PLAN

SCALE N/A DATE June 5, 2007 CONTRACT NO. BW996M82

DESIGNED BY F. Brownley
DRAWN BY F. Brownley
CHECKED BY
FAP NO. N/A
COUNTY Baltimore
LOGMILE 03004502.78
TIMS NO. H423
TOD NO.

TS NO. 1927D | DRAWING – OF | SHEET NO. 2 OF 4

PLOTTED: Tuesday, June 05, 2007 AT 05:53 PM
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