DRILL HOLES

BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 144 FA (East Patrick St) and Monocacy Blvd in the city of Frederick. Video detection shall be installed for all approaches at this location. MD 144 FA (East Patrick St) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

1. The intersection shall to operate in a five-phase mode with full actuation now being provided. The MD 144 FA (East Patrick St) approaches shall continue running as a split phase. The Monocacy Blvd approaches shall continue running as a split phase. The pedestrian phases across the west, north and south legs of this intersection shall continue to operate as a single pedestrian crossing phase on recall. Overlapping right turn phases shall continue to operate for both approaches of Monocacy Blvd.

2. Video interface and a detector mini-rack with power supply shall be installed into the existing full-traffic-actuated NEMA size "6" base-mounted cabinet and controller at this intersection.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.

2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.

3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9001	Detector rack power supply (To be installed by SHA forces)	1 EA
9046	Detector mini- rack retrofit.	1 EA
9086	Video detection interface equipment: 1-4 cameras (To be installed by signal shop).	1 EA

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
8007	Furnish and install video detector camera.	4 EA

C. EQUIPMENT TO BE REMOVED

There is no signal materials to be removed for this project.

The contact persons for District #7 and SHA are as follows:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: (301) 624-8141

Mr. Ray Johnson
Assistant District Engineer - Maintenance
Phone: (301) 624-8105

Ms Andrea Abend
Assistant District Engineer - Utility
Phone: (301) 624-8115

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

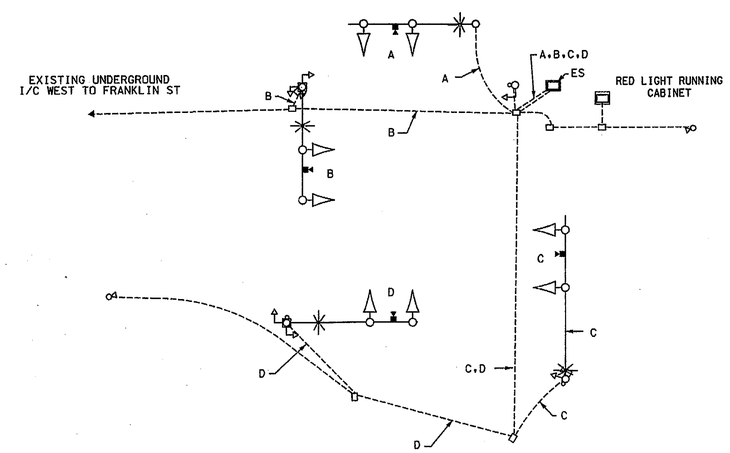
Mr. Ed Rodenhizer
Manager, Signal Operations Section
410-787-7652

Mr. Sonny Bailey
Manager, Sign Shop Operations
410-787-7676

PHASE CHART

	1	2	3	4	5	6	7	8	9	10					
PHASE 1	G/G	G	R	R	R	R	R	R/G	DW	DW	DW	DW	DW	DW	
1 CHANGE	Y	Y	R	R	R	R	R	R/Y	DW	DW	DW	DW	DW	DW	
PHASE 2	R	R	G/G	G	R	R/G	R	R	DW	DW	DW	DW	DW	DW	
2 CHANGE	R	R	Y	Y	R	R/Y	R	R	DW	DW	DW	DW	DW	DW	
PHASE 3	R	R	R	R	G/G	G/G	R	R	DW	DW	DW	DW	DW	DW	
3 CHANGE	R	R	R	R	Y	Y/Y	R	R	DW	DW	DW	DW	DW	DW	
PHASE4	R	R	R	R	R	R	G/G	G/G	DW	DW	DW	DW	DW	DW	
4 CHANGE	R	R	R	R	R	R	Y	Y/Y	DW	DW	DW	DW	DW	DW	
PED CROSSING	R	R	R	R	R	R	R	R	WK	WK	WK	WK	WK	WK	
PED CLEARANCE	R	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW	
ALL RED	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	

WIRING DIAGRAM



TOD No: XX355-08
SHA No: FR462K52
MD 144FA @ Monocacy Boulevard

WIRING KEY

A - CONTROL CABLE (100')
CAMERA TO CONTROLLER

B, C - CONTROL CABLE (200')
CAMERA TO CONTROLLER

D - CONTROL CABLE (300')
CAMERA TO CONTROLLER

ES - EXISTING SERVICE TO BE MAINTAINED BY ALLEGHENY POWER

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 144 FA (EAST PATRICK STREET)
AND MONOCACY BOULEVARD
FREDERICK, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 3/30/10 CONTRACT NO.

DESIGNED BY R.R.Z. COUNTY FREDERICK
DRAWN BY R.C. LOGMILE 06014403.66
CHECKED BY TIMS NO. K163
F.A.P. NO. TOD NO.

TS NO. 4750A | DRAWING NO. 2 OF 2 | SHEET NO. OF

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.,NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

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FILE: @FILE@

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