

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of existing Traffic Control Signals at the intersection of US 1 and Queensbury Road in Prince George's County. A US 1 South bound Exclusive/ Permissive left turn phase is to be installed at this location. US 1 is assumed to run a north-south direction.



II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA six-phase, semi-actuated mode, with the US 1 approaches running concurrently. An Exclusive/ Permissive left turn phase shall be provided for the South bound approach of US 1. The Queensbury Road approaches shall also run concurrently. Detection shall be provided via video detection.

III. GENERAL NOTES

- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- 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.
- Contractor shall remove all unused wiring from this intersection.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	10	11	12	13	14	15	24	25
PHASE 1 & 5	←G-VR	←G-VR	R	←G-VR	←G-VR	R	R	R	R	R	DW							
1 & 5 CHANGE	←G-VR	←Y-VR	R	←Y-VR	←Y-VR	R	R	R	R	R	DW							
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PHASE 2 & 6 CHANGE	G	G	G	G	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	DW							
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW							
PHASE 4 & 8 ALT	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
4 & 8 ALT CHANGE	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK							

EQUIPMENT LIST

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

There is no equipment to be supplied by S.H.A.

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of Traffic per assignment.	1 EA
8001	12 inch (R,Y,G) LED SIGNAL HEAD	10 EA
8015	Led Signal Head Modules (any size)	32 EA
8015	Remove and dispose equipment per assignment	1 EA
8047	Furnish and install video detector camera and cable upto ( 500' ).	1 EA
8058	Furnish and install electrical cable 210 L.F. 7 conductor ( no. 14 AWG)	210 L.F.
5002	12" white heat applied permanent preformed thermoplastic pavement marking.	125 L.F.
5003	24" white heat applied permanent preformed thermoplastic pavement marking.	33 L.F.

The contact persons for District #3 (Prince George's County) are as follows:

Mr. Brian Young  
Assistant District Engineer - Traffic  
Phone: (301) 513-7409

Mr. Vernon Stinnett  
Assistant District Engineer - Maintenance  
Phone: (301) 513-7304

Mr. Augie Rebish  
Assistant District Engineer - Utility  
Phone: (301) 513-7350

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

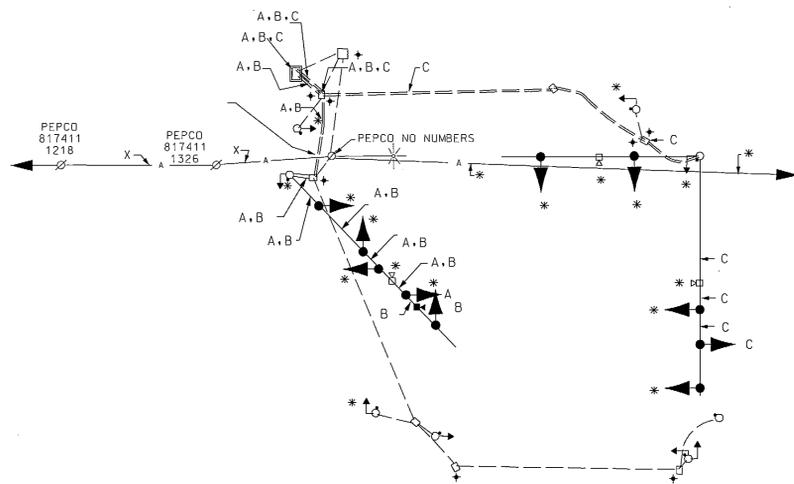
Mr. Ed Rodenhizer  
Signal Shop  
410-787-7652

Mr. Sonny Bailey  
Sign Shop  
410-787-7670

The power company representative is:

Mr. Richard Chilcoat  
PEPCO  
8300 Old Marlboro Pike  
Upper Marlboro, MD 20772

WIRING DIAGRAM



WIRING KEY

A, C 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

B PRE MANUFACTURED CAMERA TO CONTROLLER CABLE

\* USE EXISTING WIRING

TOD NO:XX449-36  
SHA NO:PG556A57/B57  
US 1 @ QUEENSBURY RD

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
SIGNALIZATION  
US 1 AND QUEENSBURY ROAD

SCALE NONE ADVERTISED DATE 3/2009 CONTRACT NO. XX4495185

DESIGNED BY YA COUNTY PRINCE GEORGE'S  
DRAWN BY YA LOGMILE 16000102.52  
CHECKED BY JWB TMS NO. 1781  
F.A.P. NO. TOD NO.

TS NO. 551 DRAWING - OF SHEET NO. 2 OF 2