

PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the modification the existing Traffic Control Control Signal at the intersection of US 1 and Hamilton Street / US 1 Alt in Prince George's County. A pedestrian phase shall be added and all existing traffic signal heads shall be replaced with black faced heads. The signal shall be interconnected to Hamilton Street to the north and to Gallatin Street to the south

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA five-phase, semi-actuated mode, with the US 1 approaches running concurrently. The Exclusive/Permissive left turn phase for the southbound approaches of US 1 shall remain in operation. A new pedestrian phase across the east leg of US 1 Alt shall be on recall. The Hamilton Street / US 1 Alt approaches shall also continue to run concurrently. Detection shall be provided via video detection.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "5" pole-mounted cabinet shall be utilized at this intersection.

III. SPECIAL 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.

EQUIPMENT LIST (CONT.)

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

ITEM NO.	DESCRIPTION	QUANTITY
2001	Class 2 Excavation.	1 C.Y.
2002	Test Pit Excavation	1 C.Y.
5005	12" white heat applied permanent preformed thermoplastic pavement marking.	105 L.F.
5006	24" white heat applied permanent preformed thermoplastic pavement marking.	95 L.F.
6004	4" concrete sidewalk.	45 S.F.
8001	Furnish and install concrete for signal foundation.	1 C.Y.
8002	Furnish and install 12" pedestrian signal head section	4 EA
8007	Pre-manufactured camera to controller (100' length) cable	2 EA
8008	Pre-manufactured camera to controller (200' length) cable	1 EA
8018	Furnish and install breakaway pedestal pole (10').	1 EA
8019	Remove and dispose of existing material and equipment per assignment.	1 EA
8027	Detectable warning system (truncated domes).	48 SF
8031	Furnish and install No. 6 AWG stranded bare copper ground wire.	185 L.F.
8034	Furnish and install 3" electrical conduit - galvanized riser.	35 L.F.
8035	Furnish and install 3" weatherhead.	1 EA
8038	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - bored.	60 L.F.
8040	Furnish and install 3" schedule 80 rigid polyvinyl chloride - trenched.	15 L.F.
8054	Furnish and install electrical handhole.	1 EA
8058	Furnish and install video detector camera.	3 EA
8075	Furnish and install ground rod - 3/4" x 10'.	1 EA
8077	Furnish and install 12" vehicular traffic signal head section	29 EA
8085	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	330 L.F.

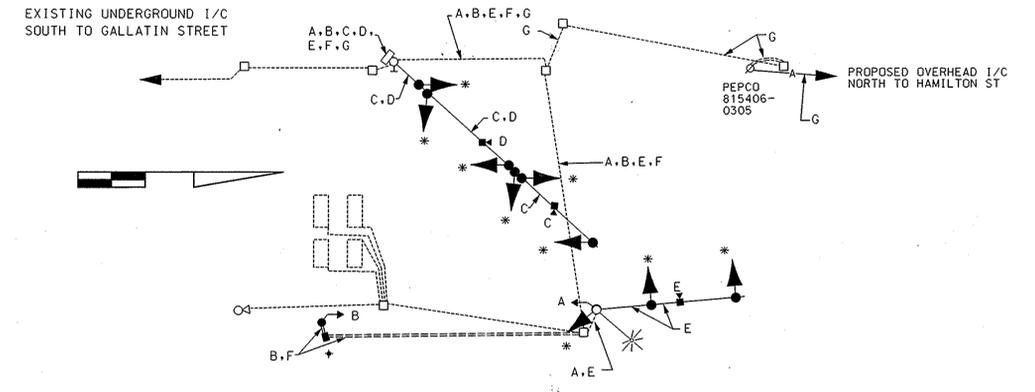
C. EQUIPMENT TO BE REMOVED

All other removed signal materials are to become property of the contractor.

PHASE CHART

NO CHANGE TO THE PHASING CHART

WIRING DIAGRAM



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } PRE-MANUFACTURED TO CONTROLLER CABLE (100')
- C } PRE-MANUFACTURED TO CONTROLLER CABLE (200')
- E - PRE-MANUFACTURED TO CONTROLLER CABLE (200')
- F - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- G - 12-PAIR VOICE GRADE INTERCONNECT CABLE (SELF SUPPORTING)
- * - USE EXISTING WIRING
- + - GROUND ROD

EQUIPMENT LIST

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

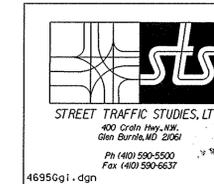
ITEM NO.	DESCRIPTION	QUANTITY
9086	Video detection interface equipment: 1-4 cameras (To be installed by signal shop).	1 EA

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

- Mr. Majid Shakib
Assistant District Engineer - Traffic
Phone: (301) 513-7358
- Mr. Wayne Mowdy
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



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

US 1 AND HAMILTON STREET/US 1 ALT

BRAWN BY: [Signature]	F.A.P. NO. [Blank]	TS NO. 1127	SHEET NO. 2 OF 2
CHECKED BY: [Signature]	S.H.A. NO. AT5665185	T.L.M.S. NO. G633	
SCALE: NONE	COUNTY: PRINCE GEORGE'S		
DATE: 2/15/09	LOG MILE: 1.6000101.88		