

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 119 (Great Seneca Hwy) and Queenstown La / Cottage Garden Dr in Montgomery County. Countdown Pedestrian heads shall be installed across MD 119 (Great Seneca Hwy). MD 119 (Great Seneca Hwy) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA four-phase, semi-actuated mode, with the MD 119 (Great Seneca Hwy) approaches running concurrently. A new countdown pedestrian phase with pushbutton actuation shall be provided across both leg of MD 119 (Great Seneca Hwy). The pedestrian phases across Queenstown La / Cottage Garden Dr shall remain on recall. Farside sampling stations via video detection shall remain in operation on both legs MD 119 (Great Seneca Hwy) at this intersection. The Queenstown La / Cottage Garden Dr approaches shall continue to run concurrently.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- 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
8106	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS GREAT SENECA HWY".)	4 EA

C. EQUIPMENT TO BE REMOVED

All removed materials shall become property of the Contractor.

The contact persons for District #3 (Montgomery County) are as follows:

Mr. Lee Starkloff
Assistant District Engineer - Traffic
Phone: (301) 513-7318

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
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

EQUIPMENT LIST

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

THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

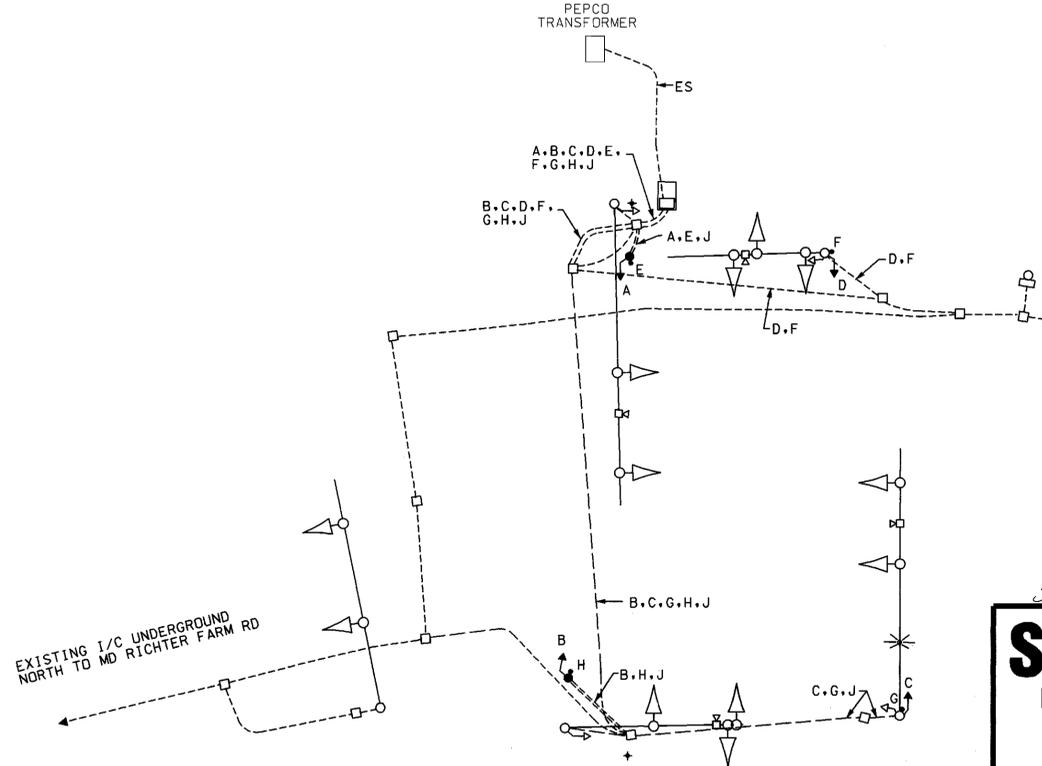
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR*

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2001	Class 2 Excavation.	1 C.Y.
2002	Test Pit Excavation	2 C.Y.
5005	12" white heat applied permanent preformed thermoplastic pavement marking.	470 L.F.
6002	Depress curb & gutter.	40 L.F.
6003	Standard type A combination curb and gutter 12" gutter pan 8" depth.	20 L.F.
6005	4" concrete sidewalk.	215 S.F.
8001	Furnish and install concrete for signal foundation.	2 C.Y.
8021	Furnish and install 16" LED countdown pedestrian signal head	4 EA
8027	Furnish and install breakaway pedestal pole (10').	2 EA
8029	Remove and dispose of existing material and equipment per assignment.	1 EA
8040	Detectable warning surface (truncated domes).	32 S.F.
8044	Furnish and install No. 6 AWG stranded bare copper ground wire.	215 L.F.
8052	Furnish and install 3" schedule 80 rigid polyvinyl chloride - trenched.	30 L.F.
8091	Furnish and install ground rod - 3/4" x 10'.	2 EA
8099	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	640 L.F.
8101	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	640 L.F.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 2 & 6	—	—	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEAR	—	—	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 & 6 CHANGE	FL/Y	FL/Y	Y	Y	Y	Y	R	R	R	R	R	R	DW							
PHASE 4 & 8	FL/Y	FL/Y	R	R	R	R	G	G	G	G	G	G	DW							
4 & 8 CHANGE	FL/Y	FL/Y	R	R	R	R	Y	Y	Y	Y	Y	Y	DW							
PHASE 4 & 8 ALT	FL/Y	FL/Y	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEAR	FL/Y	FL/Y	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 & 8 CHANGE ALT	FL/Y	FL/Y	R	R	R	R	Y	Y	Y	Y	Y	Y	DW							
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK							

WIRING DIAGRAM



WIRING KEY

A, B, C, D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

E, F, G, H } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

J - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO

+ - GROUND ROD

SHA: M03/HA54/B55 AT718-06

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 119 (GREAT SENECA HWY)
AND QUEENSTOWN LANE /
COTTAGE GARDEN DRIVE

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

SCALE NONE	DATE 3-28-05	CONTRACT NO. AT7185185
DESIGNED BY JA	COUNTY MONTGOMERY	
DRAWN BY RC	LOGMILE 15011906.11	
CHECKED BY	TIMS: G766	
F.A.P. NO.		
DRAWING NO. 4164A	OF	SHEET NO. 2 OF 2

PLOTTED: #DATE#
FILE: #FILE#

DRILL HOLES

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BORDER REV. DATE: June 1, 2004