PROJECT DESCRIPTION

I. GENERAL

This project involves the construction of a new Traffic Control Signal with street lighting and interconnect at the intersection of MD 119 (Great Seneca Hwy) and Queenstown Lane / Cottage Garden Drive in Montgomery County. Video camera detection shall be used for side street directions and main line sampling. In addition, a Hazard Identification Beacon shall be installed along the northbound approach of MD 119. MD 119 (Great Seneca Hwy) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA four-phase, semi-actuated mode, with the MD 119 (Great Seneca Hwy) approaches running concurrently. A pedestrian phase with pushbutton actuation shall be provided across the south leg of MD 119 (Great Seneca Hwy). The pedestrian phases across Queenstown Lane and Cottage Garden Drive shall be on recall. The Queenstown Lane and Cottage Garden Drive approaches shall also run concurrently.

2. A full-traffic-actuated, eight-phase controller with L.A.U. and L.A.U. Panel with asociated harnesses housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

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

2. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. Contact Mr. Bob Gonzales at (240) 777-8761 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 LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
9081	Eight-phase, full-traffic actuated, solid state digital controller L.A.U., L.A.U. Panel housed in a NEMA size "6: - base mounted cabinet.	1 EA
9089	Sheet aluminum signs to consist of:	215 SF
	GUIDE SHIELD ASSEMBLY (48"x75") pole mounted. M3-1 "NORTH"(30"X15") M1-5 "MD 119"(48"X36") M6-1 "left arrow "(30"X24")	1 EA
	GUIDE SHIELD ASSEMBLY (30"x51") pole mounted. M3-1 "NORTH"(24"X12") M1-5 "MD 119"(30"X24") M6-1 "right arrow "(21"X15")	1 EA
	GUIDE SHIELD ASSEMBLY (48"x75") pole mounted. M3-3 "SOUTH"(30"X15") M1-5 "MD 119"(48"X36") M6-1 "left arrow "(30"X24")	1 EA
	GUIDE SHIELD ASSEMBLY (30"x51") pole mounted. M3-3 "SOUTH"(24"X12") M1-5 "MD 119"(30"X24") M6-1 "right arrow "(21"X15")	1 EA
	R10-11b(mod) "NO TURN ON RED, 6:30-8 AM, 2-4 PM, MONDAY-FRIDAY" sign (24"x36") mast arm mounted.	4 EA
	W3-3 NEW "SIGNAL AHEAD" sign, (48" x 48") ground mounted with hardware.	4 EA
	W3-3(2) "SIGNAL AHEAD - PREPARE TO STOP WHEN FLASHING" (120"X60") mast arm mounted.	1 EA
9090	Sheet aluminum signs to consist of: (Blue or Green)	108 SF
	D3-2 "Great Seneca Hwy" sign, (variable x 18") mast arm mounted.	2 EA
	D3-2 "(arrow) Queenstown La <13300 / Cottage Garden Dr (arrow)" sign, (variablex36") mast arm mounted.	1 EA

EQUIPMENT LIST (CONT.)

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

ITEM NO.	DESCRIPTION	QUANTITY
	D3-2 "(arrow) Cottage Garden Dr / Queenstown La 13300>(arrow)" sign (variablex36") mast arm mounted.	1 EA
	D-3(3) (mod) "(arrow) Cottage Garden Dr" / Queenstown La (arrow) / NEXT SIGNAL" sign, (72"x36") ground mounted.	1 EA
	D-3(3) (mod) "(arrow) Queenstown La / Cottage Garden Dr / NEXT SIGNAL" sign, (72"x36") ground mounted.	1 EA
	Pedestrian education sign (with no "PUSH BUTTON TO CROSS")	2 EA

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	3 EA
2001	Class 2 Excavation.	1 C.Y.
2002	Test Pit Excavation	6 C.Y.
5004	12" white heat applied permanent preformed thermoplastic pavement marking.	220 L.F.
5005	24" white heat applied permanent preformed thermoplastic pavement marking.	120 L.F.
5006	5" white heat applied permanent preformed thermoplastic pavement marking.	25 L.F.
5007	5" yellow heat applied permanent preformed thermoplastic pavement marking.	170 L.F.
5008	Remove existing pavement markings - any width.	40 L.F.
6004	4" concrete sidewalk.	25 S.F.
8001	Pre-manufactured camera to controller (250' length) cable	2 EA
8003	Pre-manufactured camera to controller (500' length) cable	2 EA
8006	Cut, clean, galvanize and cap traffic signal structure.	1 EA
8010	Furnish and install 12" pedestrian signal head section	12 EA
8011	Furnish and install 12" vehicular traffic signal head section	32 EA
8013	Furnish and install 15' bracket arm for traffic signal structure.	1 EA
8014	Furnish and install 250 watt HPS Luminaire with photocell.	1 EA
8020	Furnish and install control and distribution equipment (120/240 V, 1 phase 3 wire system).	1 EA
8021	Furnish and install 27' mast arm pole and 38' mast arm.	1 EA
8021	Furnish and install 27' mast arm pole and 38' (cut to 30') mast arm.	1 EA
8023	Furnish and install 27' mast arm pole and 60'(cut to 50') mast arm.	1 EA
8024	Furnish and install 27' mast arm pole and 70' mast arm.	2 EA
8032	Pedestrian pushbutton and R10-3C sign. (Note: Sign to read "PUSHBUTTON TO CROSS GREAT SENECA HWY")	2 EA
8049	Furnish and install video detector camera.	4 EA
8050	Furnish and install video detection interface equipment.	1 EA

EQUIPMENT LIST (CONT.)

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

ITEM NO.	DESCRIPTION	QUANTITY
8051	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	220 L.F.
8052	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - bored.	330 L.F.
8053	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - trenched.	275 L.F.
~~8059~~ 8067	Furnish and install concrete for signal foundation.	23 C.Y.
~~8061~~ 8069	Furnish and install wood sign supports 4" x 6".	70 L.F.
~~8067~~ 8060	Furnish and install No. 6 AWG stranded bare copper ground wire.	1760 L.F.
~~8068~~ 8064	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - bored.	50 L.F.
~~8071~~ 8072	Furnish and install electrical handhole.	6 EA
~~8076~~ 8074	Install ground mounted sign.	102 S.F.
~~8077~~ 8075	Install overhead sign.	223 S.F.
~~8082~~ 8080	Furnish and install ground rod -3/4" x 10'.	6 EA
~~8084~~ 8082	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	255 L.F.
~~8088~~ 8083	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	430 L.F.
~~8086~~ 8084	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	380 L.F.
~~8087~~ 8085	Furnish and install electrical cable - 7 conductor (No. 14 AWG).	1370 L.F.
~~8088~~ 8086	Furnish and install tray cable - 2 conductor (No. 12 AWG).	320 L.F.
~~8096~~ 8093	Install controller and cabinet base mount.	1 EA
~~Neg.~~ 8100	Furnish and install electrical cable - 5 conductor (No. 12 AWG).	1205 L.F.
~~Neg.~~	Remove ground mounted sign.	2 EA ★
Neg.	Furnish and install mccadam patch.	20 S.F.
~~Neg.~~	Remove handhole.	2 EA ★
	Install Montgomery County supplied 50-pair cable.	440 L.F.
Neg.	Pull back existing 50-pair cable and re-route.	750 L.F.

8048
★ PAY AS REMOVE + DISPOSE of EXISTING materials

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

There is no signal material to be removed.

EQUIPMENT LIST (CONT.)

D. EQUIPMENT TO BE FURNISHED BY MONTGOMERY COUNTY (CALL BOB GONZALES AT 240 777-8761 FOR PICK-UP)

ITEM NO.	DESCRIPTION	QUANTITY
	50-pair communication cable jelly-filled (underground)	440 L.F.

The contact persons for District #3 are as follows:

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

Mr. Randy Brown
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

The power company representative is:
Eliza Hemingway
PEPCO
4061 Powder Mill Road
Suite 600 Center Park II
Calverton, MD 20705
Phone: 301 931-2880

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

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION
MD 119 (GREAT SENECA HWY) AND
QUEENSTOWN LANE / COTTAGE GARDEN DRIVE
GENERAL INFORMATION SHEET - 1

DRAWN BY: ROB CICCHINI	F.A.P. NO.		TS NO. 4164 GI	SHEET NO.	
CHECKED BY: R ZACHERL	S.H.A. NO.	XX1065285			
SCALE: N/A	COUNTY:	MONTGOMERY	T.I.M.S. NO. F-115	2 OF 3	
DATE: 2/7/2002	LOG MILE:	15011906.11			