DRILL HOLES

BORDER REV: DATE: June 1, 2004

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PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a Hazard Identification Beacon with street lighting at the intersection of MD 97 (Roxbury Mills Rd) and Burntwoods Rd in Howard County. MD 97 (Roxbury Mills Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection is to operate in a continuious flashing mode with the MD 97 (Roxbury Mills Rd) approaches running as a flashing "Yellow". The Burntwoods Road approach shall operate as a flashing "Red"

2. A full-traffic-actuated, eight-phase controller with all necessary equipment 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, 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) 787-7650 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.

4. Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

The contact persons for District #7 are as follows:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: (310) 624-8141

Mr. Ray Johnson
Assistant District Engineer - Maintenance
Phone: (310) 624-8106

Ms Andrea Abend
District Engineer - Utility
Phone: (301) 624-8110

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. Steve Schneider
Baltimore Gas and Electric
7317 Parkway Drive South
Hanover, MD 21076
410-859-9310

EQUIPMENT LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
9042	Controller ASC II with telemetry	1 EA
9044	Controller cabinet, size "6"	1 EA
9571	Sheet aluminum signs to consist of:	46 SF
	D3-2 "Roxbury Mills Rd" sign, (variable x 16") mast arm.	1 EA
	D3-2 "Burntwoods Rd>" "<Burntwoods Rd",sign (variable x 16") mast arm. mounted.	1 EA
	GUIDE SHIELD ASSEMBLY (36"X75") pole mounted. M3-3 "SOUTH"(30"X15") M1-5 "MD 97"(36"X36") M6-1 "left arrow "(30"X24")	1 EA
	GUIDE SHIELD ASSEMBLY (24"x51") pole mounted. M3-1 "NORTH"(24"X12") M1-5 "MD 97"(24"X24") M6-1 "right arrow "(21"X15")	1 EA

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2002	Test Pit Excavation	4 C.Y.
8001	12" LED signal head section.	7 EA
8007	Any size lighting arm on signal pole.	2 EA
8016	Mast arm pole & 38' mst arm. any "T" dimension.	1 EA
8025	Twin mast arm pole & 50'/50' (cut to 38') mast arms any "T" dimension.	1 EA
8035	Schedule 80 rigid PVC conduit up to 4" - trenched.	70 L.F.
8036	Schedule 80 rigid PVC conduit up to 4" - bored.	150 L.F.
8039	Install overhead mounted sign.	56 SF
8041	No. 6 AWG stranded bare copper ground wire.	250 L.F.
8043	Metered service pedestal embedded.	1 EA
8045	Electrical cable 1-conductor No. 4 AWG THHN/THWN.	50 L.F.
8047	Furnish and install electrical handhole.	3 EA
8052	Cut, clean, galvanize and cap traffic signal structure.	1 EA
8056	Electrical cable - 5 conductor (No. 14 AWG).	75 L.F.
8057	Electrical cable - 7 conductor (No. 14 AWG).	600 L.F.
8058	Electrical cable - 2 conductor (No. 12 AWG). tray	265 L.F.
8065	Install controller and cabinet base mount.	1 EA

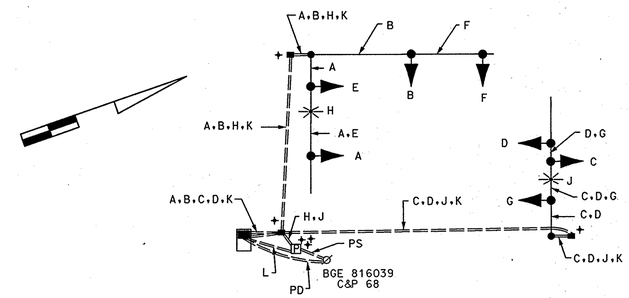
C. EQUIPMENT TO BE REMOVED

Any materials to be removed are to become the property of the Contractor.

PHASE CHART

	1	2	3	4	5	6	7
	Y	Y	Y	Y	Y	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

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

E, F, G } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

H, J } 2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G)

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

L - 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)

PS- PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY BGE

PD- PROPOSED PHONE DROP

+ - GROUND ROD

TOD No: AT783-03M
SHA No: HO377A53/B53/M53
Howard County

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

5010gi.dgn D6-68

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 97 (ROXBURY MILLS RD) AND BURNTWOODS RD

GLENWOOD, MARYLAND

SCALE none	DATE 1-23-06	CONTRACT NO. AT7835185	
DESIGNED BY JAMES ALLEN JR.		COUNTY HOWARD	
DRAWN BY R. C.		LOGMILE	
CHECKED BY		TIMS NO. H216	
F.A.P. NO.		TOD NO.	
TS NO.	DRAWING NO. 2 OF 2	SHEET NO. OF	

PLOTTED: WEDNESDAY, MARCH 15, 2006 AT 2:12:07 PM
FILE: 5010GI-V8.DGN