PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 122 (Security Blvd.) and Woodlawn Drive in Baltimore County. Street lighting will be added to the northwest quadrant. The modification will upgrade the traffic signal heads to black-face and bottomed tethered.

MD 122 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA (8) eight-phase, full-traffic-actuated mode, with Exclusive left turns movements on all four appoaches. MD122 approaches run concurrently. The Woodlawn Dr. approaches also run concurrently. Pedestrian phases with pushbutton actuation existing to cross MD122 east and west legs. The existing pedestrian phases to cross the north and south legs of Woodlawn Dr. are on recall.

2. The existing size '5' base-mounted cabinet and controller will remain. An additional 4" PVC bend shall be installed into the existing base.

III. SPECIAL NOTES:

1. The existing signal cables for the signal heads that are to be removed, should also be removed.

2. The existing strain poles may require a backguy during construction.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY M.S.H.A.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9089	82	SF	Flat Sheet aluminum sign (white).
			2 each R3-5 "LEFT ONLY" sign (30" x 36").
			Associated Shield Assembly signs, pole mounted
			2 each M3-2 "EAST" (24" x 12") and (30" x 15")
			2 each M3-4 "WEST" (24" x 12") and (30" x 15")
			2 each M1-5 "MARYLAND 122" (30" x 24")
			2 each M1-5 "MARYLAND 122" (48" x 36")
			2 each M6-1(R) "RIGHT ARROW" (21" x 15")
			2 each M6-1(L) "LEFT ARROW" (30" x 24")
9090	14	SF	Flat Sheet aluminum sign (blue or green).
			2 each D3-2 "Security Blvd" dual faced sign, (variable x 16").
			2 each D3-2 "Woodlawn DR" dual faced sign, (variable x 16").

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION.
1001	1	EA	Maintanance of traffic.
2003	5.5	CY	Class 2 excavation.
6001	150	SF	4" concrete sidewalk.
8009	80	LF	3/8" dia. steel span wire.
8010	600	LF	1/4" dia. steel span wire.
8027	15	LF	3" PVC schedule 80 electrical conduit- trenched.
8028	70	LF	3" PVC schedule 80 electrical condiut - slotted.
8030	10	LF	4" PVC schedule 80 electrical conduit- trenched.
8033	2	EA	Handhole
8044	130	LF	5-conductor electrical cable (No. 14 AWG).
8045	2900	LF	7-conductor electrical cable (No. 14 AWG).
8046	400	LF	2-conductor electrical cable (No. 12 AWG) tray type.
8053	96	SF	Install overhead signs.
8055	1	EA	250 watt HPS luminaire.
8056	1	EA	15' lighting arm.
8060	1	EA	Remove and disposal of existing equipment.
8061	2	EA	Install conduit bend into existing base.
8067	6	EA	Adjust and re-wire existing span wire.
8084	48	EA	12 inch vehicular traffic signal head section. (Blackfaced and polycarbonate)
NEG	4	EA	Backguy.

The following contact persons for District # 4 are as follows:

Mr. David J. Malkowski
District Engineer
Phone: (410) 321-2810

Mr. Randall Scott
Assistant District Engineer - Traffic
Phone: (410) 321-2881

Mr. Dave Ramsey
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Joe McMahon
Assistant District Engineer - Utility
Phone: (410) 321-2841

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

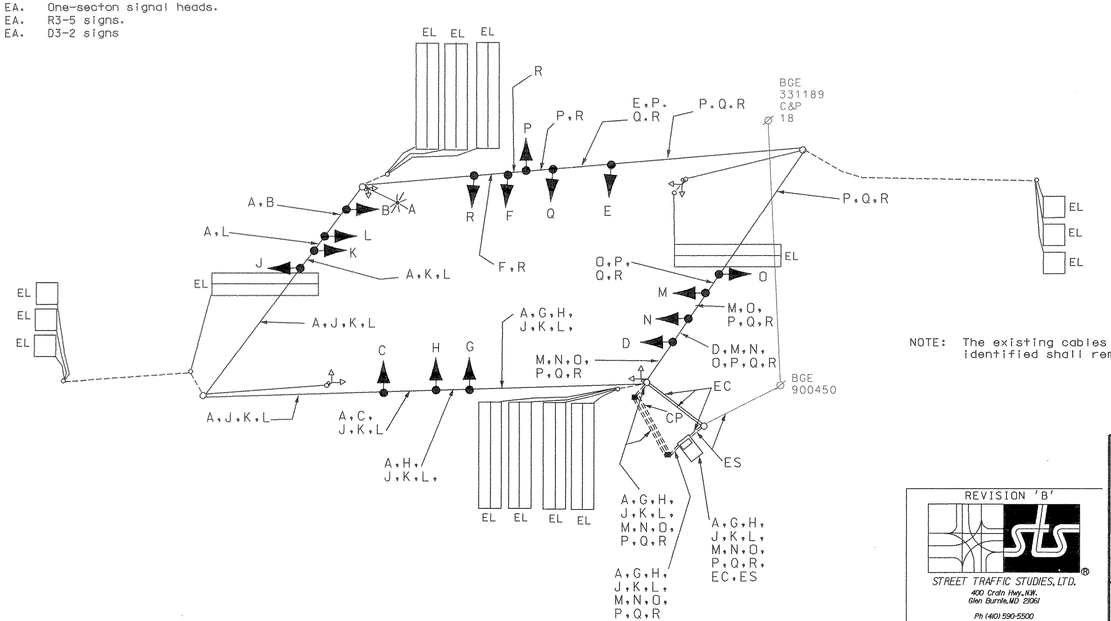
C. ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

40 EA. One-secton signal heads.
2 EA. R3-5 signs.
2 EA. D3-2 signs

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	4	4	R Y G	R Y G	4	4	R Y G	R Y G	4	4	R Y G	R Y G	4	4	R Y G	R Y G	✋	✋	✋	✋	✋	✋	✋	✋
PHASE 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 & 5 CHANGE	TO PHASE 1 & 6 OR PHASE 2 & 5																DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
5 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 & 6	R	R	R	R	G	G	G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 CHANGE	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	R	R	G	G	R	R	G	G	R	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 & 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 & 7	R	R	R	R	R	R	R	R	G	G	R	R	G	G	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 & 7 CHANGE	TO PHASE 3 & 8 OR PHASE 4 & 7																DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 & 8	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 7	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
7 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	R	R	R	R	G	G	R	R	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4&8 ALT	R	R	R	R	R	R	R	R	R	R	G	G	R	R	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	G	G	R	R	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 & 8 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/R	FL/R	FL/RA	FL/RA	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



NOTE: The existing cables not identified shall remain.

Wiring Key

A — 2-conductor (No. 12 AWG) tray cable.

B, C, D, E, F — 5-conductor (No. 14 AWG) electrical cable.

G, H, J, K, L, M, N, O, P, Q, R — 7-conductor (No. 14 AWG) electrical cable.

EL — Existing loop detector

ES — Existing service by BGE

EC — Existing cable

CP — Capped for future use.

REVISION 'B'

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

3964GI.DGN TASK 10

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 122 (SECURITY BLVD) AND WOODLAWN DR.

DRAWN BY: EMM	F.A.P. NO.		TS NO. 4089BGI	SHEET NO. 2 OF 2
CHECKED BY: RRZ	S.H.A. NO.	BH557A5H, B5H		
SCALE: NONE	COUNTY:	BALTIMORE	T.I.M.S. NO. E 583	
DATE: 5/17/01	LOG MILE:	03012201.09		

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