

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 648 (Balt-Annapolis Blvd) and 1st Avenue in Anne Arundel County. Video detection shall be added for the MD 648 southbound approach and the 1st Avenue westbound approach. Lighting shall be added to the intersection. MD 648 (Balt-Annapolis Blvd) is assumed to run a north-south direction. All existing loops in the proposed detection area shall be abandoned.

The contact persons for District #5 are as follows:

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: (410) 841-1003

Mr. George Charles
Assistant District Engineer - Maintenance
Phone: (410) 841-1002

Mr. John Mays
Assistant District Engineer - Utility
Phone: (410) 841-1005

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

PHASE CHART

THERE SHALL BE NO PHASING CHANGE TO THIS INTERSECTION

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA five-phase, semi-actuated mode, with the 648 (Balt-Annapolis Blvd) approaches continuing to run concurrent. An Exclusive/Permissive left turn phase shall remain in operation for the southbound of 648 (Balt-Annapolis Blvd). The pedestrian phases with pushbutton actuation across both legs of 648 (Balt-Annapolis Blvd) shall remain in operation. The pedestrian phases across 1st Avenue shall remain on recall. The 1st Avenue 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 at 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

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

ITEM NO.	DESCRIPTION	QUANTITY
9086	Video detection interface equipment: For 1 to 4 cameras (To be installed by signal shop)	1 EA
9572	Sheet Aluminum Signs to consist of: (span wire mount) R3-5R "RIGHT TURN ONLY" sign (30"x36") span wire mounted	8 SF 1 EA

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

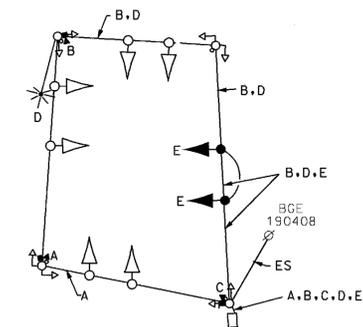
ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic	1 EA
8003	F&I 15' lighting arm on existing structure	1 EA
8013	Remove & dispose of equipment (Per Assignment)	1 EA
8019	F&I Electrical Cable 2-conductor No. 12 AWG - Tray cable	250 LF
8043	Install Overhead Sign	8 SF
8044	F&I Video Detection Camera	3 EA
8045	F&I Control cable, 250', video detection camera to controller	3 EA
8048	F&I 250 Watt high pressure Sodium Lamp & Luminaire	1 EA
8053	F&I 12" Vehicular traffic signal head section	6 EA

C. EQUIPMENT TO BE REMOVED

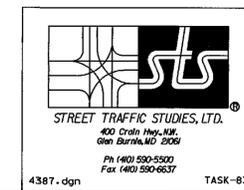
Equipment removed by the contractor becomes the property of the contractor.

Signal Heads

WIRING DIAGRAM



WIRING KEY	
A	1 PRE-MANUFACTURED CAMERA TO CONTROLLER CABLE (250')
B	2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
D	PROPOSED SIGNAL HEADS TO USE SAME WIRE
E	EXISTING OVERHEAD SERVICE TO BE MAINTAINED BY BGE



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 648 AND 1st AVENUE
GLEN BURNIE, MARYLAND

DRAWN BY: ROB CICCHINI	F.A.P. NO.:	TS NO.:
CHECKED BY:	S.H.A. NO. AT 2885185	821
SCALE: NONE	COUNTY: ANNE ARUNDEL	T.I.M.S. NO.:
DATE: 4-30-03	LOG MILE: 02E64805.42	F641

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