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 162 (Aviation Blvd) and BWI Satellite Parking Lot (Green and Blue) Driveways in Anne Arundel County. Nearside 5-section signal heads shall be added for each direction of MD 162. All traffic signal heads controlling MD 162 traffic shall be replaced with black-faced signal heads. MD 162 (Aviation Blvd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the MD 162 (Aviation Blvd) approaches continuing to run concurrently. Exclusive/Permissive left turn phases shall continue to be provided for both approaches of MD 162 (Aviation Blvd) . Farside sampling stations shall be provided on both legs of MD 162 (Aviation Blvd) at this intersection. The Parking Lot Driveway approaches shall also continue to run concurrently.

2. A full-traffic-actuated, eight-phase controller with two (2) four channel, rack mount loop detector amplifiers, housed in a NEMA size "5" pole-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. 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.

EQUIPMENT LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
9086	Eight-phase, full-traffic actuated, solid state digital controller with (two) 4-channel, rack mount loop detector amplifiers, housed housed in a NEMA size "5 "- pole mounted cabinet.	1 EA

EQUIPMENT LIST (CONT.)

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
8011	Furnish and install 12" vehicular traffic signal head section (black faced)	20 EA
8021	Furnish and install 8" vehicular traffic signal head section. (black faced)	6 EA
8067	Furnish and install 1" electrical conduit galvanized sleeve.	15 L.F.
8073	Furnish and install 1" liquid tight flexible non-metallic conduit for detector sleeve.	10 L.F.
8084	Furnish and install electrical cable - 2 conductor (aluminum shielded).	495 L.F.
8087	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	60 L.F.
8088	Furnish and install electrical cable - 7 conductor (No. 14 AWG).	835 L.F.
8090	Furnish and install loop wire encased in flexible tubing (No. 14 AWG).	495 L.F.
8091	Furnish and install saw cut for signal (loop detector).	160 L.F.
8095	Install controller and cabinet pole mount.	1 EA

C. SHA Forces shall remove the controller and all auxiliary equipment from the controller cabinet.

The cabinet and all other materials to be removed by the contractor shall become the property of the contractor.

The contact persons for District #6 are as follows:

Mr. George Small
Assistant District Engineer - Traffic
Phone: (301) 729-6444

Mr. George C. Frankenbury
Assistant District Engineer - Maintenance
Phone: (301) 729-6457

Mr. Larry Humberson
Assistant District Engineer - Utility
Phone: (301) 729-8439

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

The power company representative is:

WIRING KEY

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

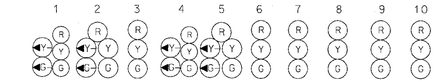
E, F } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

G, H, J, K } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) ALUMINUM SHIELDED

EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING

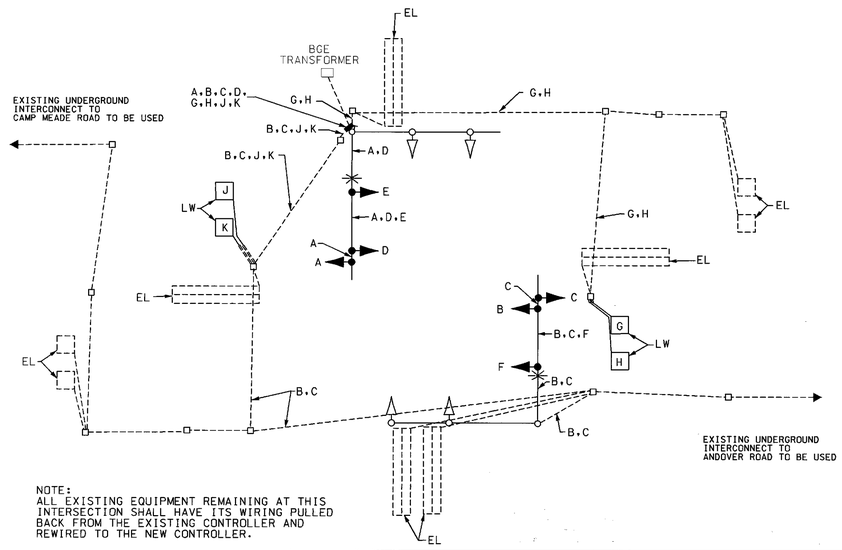
LW - LOOP WIRE (NO. 14 A.W.G.)

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	
PHASE 1 & 5	◄G-/R	◄G-/R	R	◄G-/R	◄G-/R	R	R	R	R	R	
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6											
PHASE 1 & 6	◄G-/G	◄G-/G	G	R	R	R	R	R	R	R	
1 & 6 CHANGE	◄Y-/G	◄Y-/G	G	R	R	R	R	R	R	R	
PHASE 2 & 5	R	R	R	◄G-/G	◄G-/G	G	R	R	R	R	
2 & 5 CHANGE	R	R	R	◄Y-/G	◄Y-/G	G	R	R	R	R	
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

WIRING DIAGRAM



NOTE:
ALL EXISTING EQUIPMENT REMAINING AT THIS INTERSECTION SHALL HAVE ITS WIRING PULLED BACK FROM THE EXISTING CONTROLLER AND REWIRED TO THE NEW CONTROLLER.

REVISION 'B'

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.,NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-5637

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION
MD 162 (AVIATION BLVD) / SATELLITE PARKING GREEN AND BLUE LOTS
GENERAL INFORMATION SHEET

DRAWN BY: ROB CICCHINI	F.A.P. NO.		TS NO. 2336B
CHECKED BY: R ZACHERL	S.H.A. NO.	XX-[illegible]	
SCALE: none	COUNTY:	ANNE ARUNDEL	T.M.S. NO. E 451
DATE: 5-10-02	LOG MILE:	02016202.17,	SHEET NO. 5 OF 23

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