PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic control signal at the intersection of Greenspring Avenue and MD 133 (Old Court Road) in Baltimore County, Maryland. Greenspring Ave. is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection is to be modified to operate in a NEMA 7 phase, full-traffic-actuated mode. Presently there is an exclusive left turn phase for the southbound movement with an east-bound right turn overlap and an exclusive/permissive left turn for the northbound movement of Greenspring Avenue. The Greenspring Ave. through movements operate concurrently. There will be an exclusive/permissive left turn phase for the westbound movement of MD 133 added to the operation. The MD 133 through movements operate concurrently.

The existing base mounted cabinet and controller will to be utilized, video detection to be added.

EQUIPMENT LIST

A. S.H.A. furnished equipment material.

None.

B. Equipment to be furnished and installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	EA	818	27 ft. steel mast arm pole with a 50 ft. mast arm
1	EA	814	12 in., one-way, three section (Non-L.E.D.) (RA,YA,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	814	12 in., one-way, three section, L.E.D. (RA,YA,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
2	EA	814	12 in., one-way, three section, L.E.D. (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	814	12 in., one-way, five section, L.E.D. (R,Y,YA,G,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	814	12 in./8 in., one-way, five section, L.E.D. (12 in. YA, GA/ 8 in. R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	813	36 in. x 42 in. R 10-12(4) sign with mast arm mounting hardware.
1	EA	---	Video Detection Retro-fit kit.
4	EA	---	Video Detection Camera and cable. (1 - 100 LF, 2 - 200 LF, 1 - 300 LF)
3	EA	---	Non-invasive probe (set of 3) with 500 ft. lead-in cable.
1	EA	806	15 ft. luminaire arm.
1	EA	806	250 W H.P.S. lamp and luminaire.
1	EA	205	Test pit excavation.
6	CY	811	Handhole.
160	EA	810	2-conductor electrical tray cable (No. 12 A.W.G.).
205	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
375	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
220	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
295	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
75	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
130	LF	805	4 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
175	LF	805	4 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
1	EA	---	Elbow into existing base.
3	CY	801	Concrete foundation for traffic signal equipment.
1	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
50	LF	549	24 in. wide HAPPTPM - white for stop line.
Lump Sum	LS	---	Remove and dispose of existing signal equipment.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

CONTACT LIST

The contact persons for District #4 are as follows:

Mr. Randall Scott
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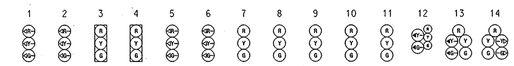
Mr. Mike Pasquariello
Assistant District Engineer - Utility
410-321-3460

Mr. Steve Markiszewski
Assistant District Engineer - Maintenance
410-321-2761

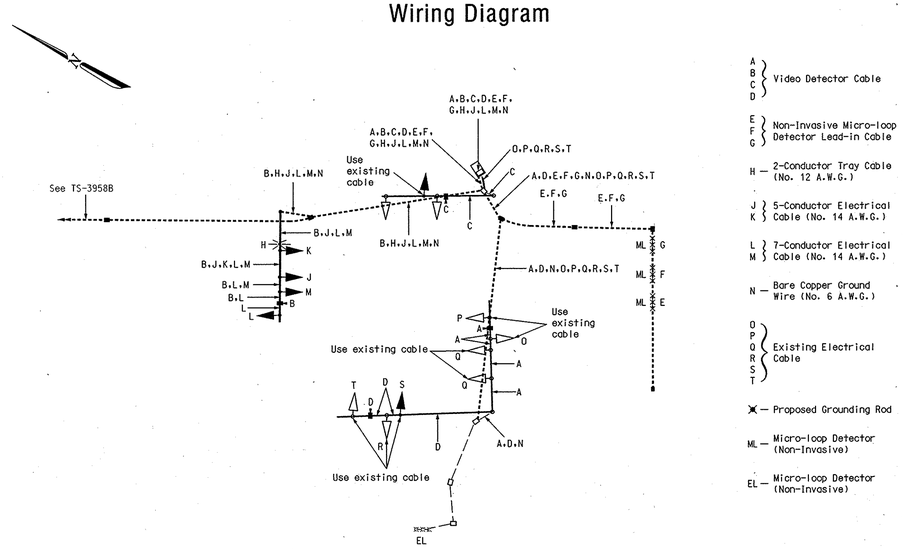
Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

Phase Chart



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Phase 1 & 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R G	
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6															
Phase 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R G	
1 Change	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R Y	
Phase 2 & 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R	
5 Change	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	
Phase 2 & 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	
2 & 6 Change	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	
Phase 4 & 7	R	R	R	R	R	R	R	R	R	R	R	G G	G G	G	
7 Change	R	R	R	R	R	R	R	R	R	R	R	G Y	G Y	G	
Phase 4 & 8	R	R	R	R	R	R	R	R	G	G	G	G	G	G	
4 & 8 Change	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	
Flashing Operation	FL/ R	FL/ R	FL/Y	FL/Y	FL/ R	FL/ R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

Wiring Diagram



The Traffic Group
The Traffic Group, Inc.
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
Greenspring Avenue at MD 133 (Old Court Road)

DRAWN BY:	F. Brownley	F.A.P. NO.	N/A	TS NO. 3580-H	SHEET NO.
CHECKED BY:		S.H.A. NO.	BA766A51	T.I.M.S. NO.	2 OF 4
SCALE:	1" = 20'	COUNTY:	Baltimore		
DATE:	8/4/2006	LOG MILE:	0313301.69		

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