PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the traffic control signal at the intersection of US 50 and Inlet Isle Lane in Worcester County, Maryland.
US 50 (Ocean Gateway) is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection presently operates in a NEMA 6 phase, full-traffic actuated mode.

There will be an actuated pedestrian movement across the east leg of the intersection added.

The existing phasing, pole mounted cabinet and controller will be utilized. The existing 2-channel loop detectors shall be replaced with 4-channel rack mounted detectors. Three (3) four-channel rack mounted time delay output loop detector amplifiers are to be installed at this location.

III. SPECIAL NOTE:

The Contractor shall coordinate installation of new equipment with MD-SHA. Signal Shop.

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	---	4-channel rack mounted retro fit kit.
1	EA	---	4--channel loop detector amplifier power supply.
3	EA	---	4-channel rack mounted loop detector.
1	EA	---	Nema load switch.
1	EA	818	10 ft. steel pedestal pole with break away transformer base.
1	EA	814	16 in., one-way, one section, countdown (symbolic DW, WK) adjustable pedestrian signal head with post top mounting hardware and cut-away visors.
1	EA	814	16 in., one-way, one section, countdown (symbolic DW, WK) adjustable pedestrian signal head with pole mounting hardware and cut-away visors.
1	EA	817	30 in. x 36 in. R 3-5(R) sign with span wire mounting hardware.
2	EA	813	16 in. x Var. D-3(I) dual faced sign with span wire mounting hardware
2	EA	813	Pedestrian pushbutton assembly with pushbutton sign.
2	EA	---	Micro-loop probe (set of 3) with 500 ft. lead-in cable.
2	EA	---	Non-invasive probe (set of 3) with 750 ft. lead-in cable.
1	CY	205	Test pit excavation.
9	EA	811	Handhole.
400	LF	815	Sawcut for signal loop detector.
1325	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
1000	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
500	LF	810	2-conductor electrical cable (No. 14 A.W.G.).
500	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
60	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
20	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
100	LF	805	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
100	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
100	LF	805	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
120	LF	805	4 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
1	EA	805	Elbow into existing base.
1	CY	801	Concrete foundation for traffic signal equipment.
3	EA	804	Ground rod -7/8in. diameter x 10 ft. length.
875	LF	549	12 in. wide HAPPTPM - white for crosswalk.
80	LF	549	24 in. wide HAPPTPM - white for stop line.
40	LF	---	Remove existing pavement marking by grinding.
Lump Sum	LS	---	Remove existing traffic signal equipment.
Lump Sum	LS	---	Adjust traffic signal heads.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

CONTACT LIST

The contact persons for District #1 are as follows:

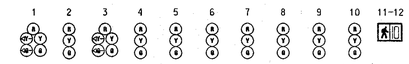
Mr. Gene Cofield
Assistant District Engineer - Traffic
410-543-6715

Mr. Bruce Poole
Assistant District Engineer - Utility
410-543-6715

Mr. James Wright
Assistant District Engineer - Maintenance
410-543-6715

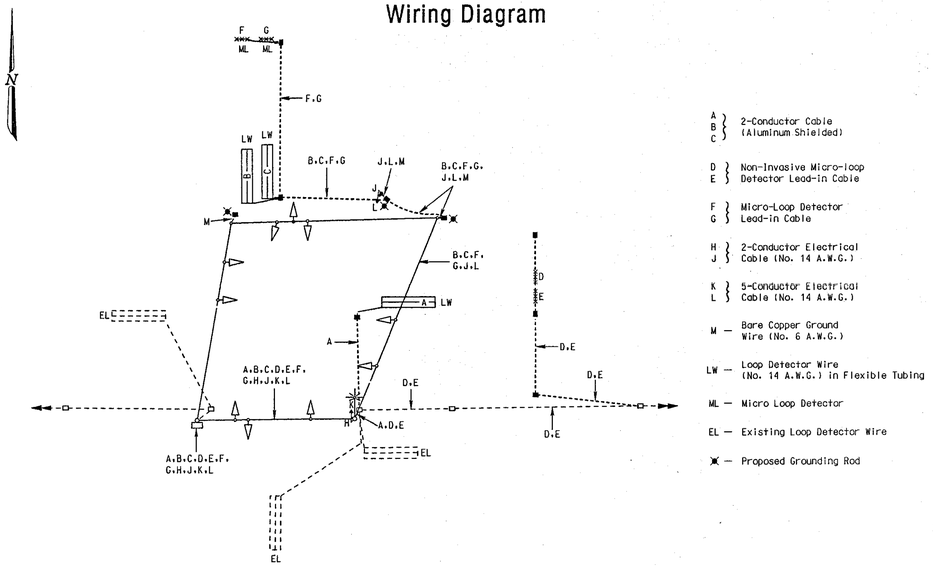
Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

Phase Chart



	1	2	3	4	5	6	7	8	9	10	11-12
Phase 1 & 5	G/G	R	G/G	R	R	R	R	R	R	R	DW
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6											
Phase 1 & 6	G/G	G	R	R	R	R	R	R	R	R	DW
1 Change	G/Y	G	R	R	R	R	R	R	R	R	DW
Phase 2 & 5	R	R	G/G	G	R	R	R	R	R	R	DW
5 Change	R	R	G/Y	G	R	R	R	R	R	R	DW
Phase 2 & 6	G	G	G	G	R	R	R	R	R	R	DW
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	R	R	DW
Phase 4 & 8	R	R	R	R	G	G	G	G	G	G	DW
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	Y	Y	DW
Phase 4 & Alt 8	R	R	R	R	G	G	G	G	G	G	WK
Ped Clearance	R	R	R	R	G	G	G	G	G	G	FL/DW
4 & Alt 8 Change	R	R	R	R	Y	Y	Y	Y	Y	Y	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK

Wiring Diagram



Revision 'C'

The Traffic Group

The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)

US 50 at Inlet Isle Lane

DRAWN BY:	J. Dirndorfer	F.A.P. NO.	N/A	TS NO. 2424C	SHEET NO.
CHECKED BY:		S.H.A. NO.	BW996M82		
SCALE:	N/A	COUNTY:	Worcester	T.I.M.S. NO. G608	
DATE:	March 21, 2005	LOG MILE:	23005013.57		2 OF 2

Printed by HKilian at 03/29/2005 aat 09:43:28 AM