

### PROJECT DESCRIPTION

**GENERAL**

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 13 AND DAGSBORO ROAD IN WICOMICO COUNTY. US 13 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

THIS WORK IS NECESSITATED BY THE ADDITION OF THE WEST LEG OF THE INTERSECTION AND WILL CONSIST OF THE INSTALLATION OF SIGNAL HEADS AND DETECTION.

**INTERSECTION OPERATION**

THE INTERSECTION CURRENTLY OPERATES IN A FIVE-PHASE, FULL TRAFFIC ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND US 13.

PHASING CHANGES WILL CONSIST OF SPLITTING THE SIDE STREET AND CHANGING THE EXISTING N.B. & S.B. EXCLUSIVE/PERMISSIVE LEFT TURN PHASING TO EXCLUSIVE LEAD/LAG LEFT TURN PHASING.

**CONTROLLER REQUIREMENTS**

THE EXISTING EIGHT-PHASE CONTROLLER WILL BE USED.

ONE, FOUR-CHANNEL LOOP DETECTOR AMPLIFIER WILL BE INSTALLED INTO THE EXISTING POLE MOUNTED CABINET.

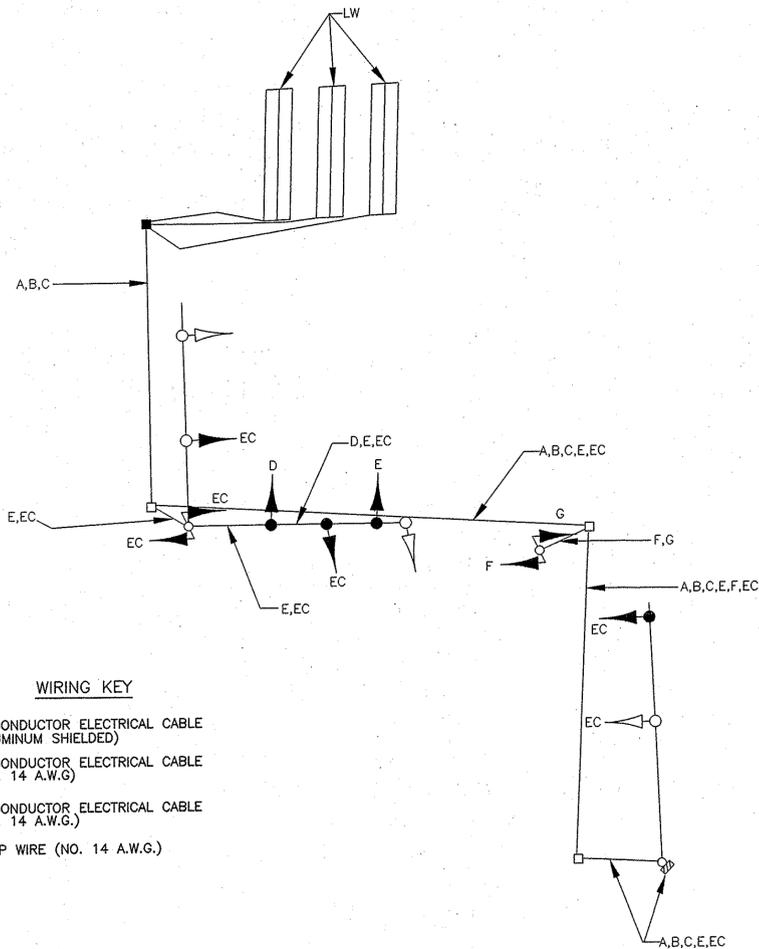
### EQUIPMENT LIST

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
5008	650 L.F.	5 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
5010	80 L.F.	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
5011	8 EACH	THERMOPLASTIC PAVEMENT MARKING LETTER
5012	6 EACH	THERMOPLASTIC PAVEMENT MARKING ARROW
8001	1 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8003	1 EACH	FURNISH AND INSTALL 14 FT. BREAKAWAY PEDESTAL POLE
8021	400 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8023	40 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT NON-METALLIC CONDUIT (DETECTOR SLEEVE)
8024	10 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80, RIGID PVC CONDUIT (TRENCHED)
8032	70 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80, RIGID PVC CONDUIT (BORED)
8033	1 EACH	FURNISH AND INSTALL HANDHOLE
8034	1 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. X 10 FT.
8040	1480 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING
8041	900 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2-CONDUCTOR (ALUMINUM SHIELDED)
8044	30 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 A.W.G.)
8045	600 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 A.W.G.)
8049	120 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
----	3 EACH	FURNISH AND INSTALL 12 IN., ONE-WAY, THREE-SECTION (R,Y,G) TRAFFIC SIGNAL HEAD WITH PROPER BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISORS
----	5 EACH	REMOVE EXISTING SIGNAL HEAD
----	6 EACH	REMOVE EXISTING SIGN
----	1 EACH	4-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
----	2 EACH	FURNISH AND INSTALL 12 IN., ONE-WAY, FOUR-SECTION (R,Y,G,GA) TRAFFIC SIGNAL HEAD WITH PROPER BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISORS
----	2 EACH	FURNISH AND INSTALL 12 IN., ONE-WAY, THREE-SECTION (RA,YA,GA) TRAFFIC SIGNAL HEAD WITH PROPER BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISORS
----	2 EACH	FURNISH AND INSTALL 12 IN., ONE-WAY, THREE-SECTION (RA,YA,GA) TRAFFIC SIGNAL HEAD WITH PROPER BRACKET FOR PEDESTAL MOUNTING AND TUNNEL VISORS
----	1 EACH	FURNISH AND INSTALL R3-5R SIGN (30"x36") - MAST ARM MOUNT
----	1 EACH	FURNISH AND INSTALL R3-5L SIGN (30"x36") - MAST ARM MOUNT
----	1 EACH	FURNISH AND INSTALL R3-6 SIGN (30"x36") - MAST ARM MOUNT
----	2 EACH	RELOCATE EXISTING SIGN

NOTE: ITEM NUMBERS CORRESPOND TO MSHA AREA-WIDE CONTRACT

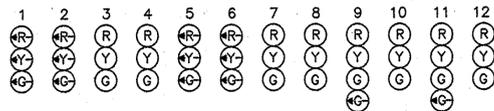
### WIRING DIAGRAM



**WIRING KEY**

- A,B,C } 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
- D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E,F,G } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- LW } LOOP WIRE (NO. 14 A.W.G.)

### PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 + 6	←G←	←G←	G	G	←R←	←R←	R	R	R	R	R	R
1 + 6 CHANGE	←Y←	←Y←	G	G	←R←	←R←	R	R	R	R	R	R
PHASE 2 + 6	←R←	←R←	G	G	←R←	←R←	G	G	R	R	R	R
2 + 6 CHANGE	←R←	←R←	Y	Y	←R←	←R←	G	G	R	R	R	R
PHASE 2 + 5	←R←	←R←	R	R	←G←	←G←	G	G	R	R	R	R
2 + 5 CHANGE	←R←	←R←	R	R	←Y←	←Y←	Y	Y	R	R	R	R
PHASE 3	←R←	←R←	R	R	←R←	←R←	R	R	R	R	←G←	←G←
3 CHANGE	←R←	←R←	R	R	←R←	←R←	R	R	R	R	←Y←	←Y←
PHASE 4	←R←	←R←	R	R	←R←	←R←	R	R	←G←	←G←	R	R
4 CHANGE	←R←	←R←	R	R	←R←	←R←	R	R	←Y←	←Y←	R	R
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

### TRAFFIC CONCEPTS, INC.

Brightview Business Center  
8258 Veterans Highway  
Suite 19B  
Millersville, MD 21108  
(410) 987-0427

REVISIONS	APPROVALS
	ASSISTANT DIVISION CHIEF
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENG. DESIGN DIV.
	DIR., OFFICE OF TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION SHEET  
US 13 AND DAGSBORO ROAD

DATE: 2-10-99	DRAWN BY: T. ZAYDEL	F.A.P. NO. _____	PLAN SHEET NO.: _____
SCALE: NONE	DESIGNED BY: T. ZAYDEL	S.H.A. NO. _____	SHEET NO. _____
APPROVED BY: _____	CHECKED BY: K. SCHMID	COUNTY: WICOMICO	1985E GI 2 OF 2