THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATIION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 140 (REISTERSTOWN ROAD) AND I-695 IN BALTIMORE COUNTY. MD 140 IS ASSUMED TO RUN IN A EAST / WEST DIRECTION.

INTERSECTION OPERATION

EAST INTERSECTION- MAINTAIN INTERSECTION OPERATION USING THE PREVIOUSLY INSTALLED NEMA (SIZE 6) SYSTEM READY CABINET AND CONTROLLER. THE EAST INTERSECTION IS TO MAINTAIN CURRENT PHASING.

WEST INTERSECTION- MAINTAIN THE USE OF THE PREVIOUSLY INSTALLED NEMA (SIZE 6) SYSTEM READY CONTROLLER AND CABINET AT THE WESTERN INTERSECTION. MAINTAIN THE CURRENT PHASING.

EQUIPMENT LIST

A. Equipment to be supplied by the Administration and installed by the Contractor.

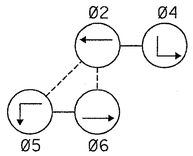
Item #	Spec #	Item	units	4west	4east	5west	5east	Total
900000	900	Sheet aluminum sign to consist of:	SF	30.5	15	0	0	45.5
		R3-5(L) "LEFT ONLY" SIGN 30"x36" - SPAN MOUNTED	EA	1	1	0	0	2
		R3-6 "THRU-LEFT" SIGN 30"x36" - SPAN MOUNTED	EA	1	0	0	0	1
		R3-3 "NO TURNS" SIGN 24"x24" - SPAN MOUNTED	EA	1	0	0	0	1
		R10-11B "NO TURNS ON RED" SIGN 24"x24" - SPAN MOUNTED	EA	1	0	0	0	1
		R3-5 "THRU ONLY" SIGN 30"x36" - SPAN MOUNTED	EA	1	1	0	0	2

B. Equipment to be furnished and installed by the Contractor.

Item #	Spec #	Item	units	4west	4east	5west	5east	Total
860265	814	Relocate existing signal head section	EA	6	0	6	6	18
869102	819	Furnish and install steel span wire-3/8 in. diameter	LF	270	330	0	0	600
800000	800	Furnish and install down guy & anchor.	LF	160	160	0	0	320
861107	810	Furnish and install electrical cable - 5 conductor (no. 14 awg)	LF	1325	1585	0	0	2910
800000	800	Furnish and install 50ft wooden pole	EA	1	2	0	0	3
831010	806	Furnish and install 250 watt high pressure sodium lamp and luminaire	EA	1	2	0	0	3
866104	818	Furnish and install 20 ft. lighting arm	EA	1	2	0	0	3
861116	810	Furnish and install electric cable 2 conductor / no. 12 awg	LF	155	895	0	0	1050
813015	813	Install overhead sign	SF	30.5	15	0	0	45.5
800000	800	Furnish and install 12" vehicular traffic signal head section	EA	39	30	0	0	69
585445		24" white permanent preformed pavement marking tape	LF	90	90	65	40	285

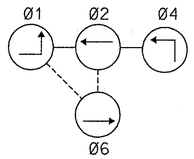
PHASE CHART

WEST INTERSECTION



	1	2	3	4	5	6	7	8	9	10	11
PHASE 2 AND 5	R	R	R	R	~~G~~	~~G~~	G	G	R	R	R
2 AND 5 CHANGE	R	R	R	R	~~Y~~	~~Y~~	G	G	R	R	R
PHASE 2 AND 6	G	G	G	G	~~R~~	~~R~~	G	G	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	~~R~~	~~R~~	Y	Y	R	R	R
PHASE 4	R	R	R	R	~~R~~	~~R~~	R	R	G	G	G
PHASE 4 CHANGE	R	R	R	R	~~R~~	~~R~~	R	R	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/~~R~~	FL/~~R~~	FL/Y	FL/Y	FL/R	FL/R	FL/R

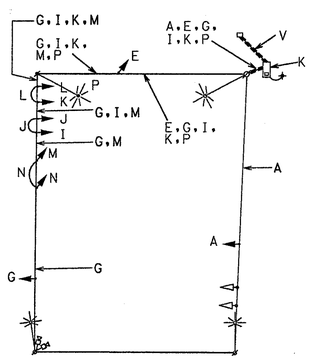
EAST INTERSECTION



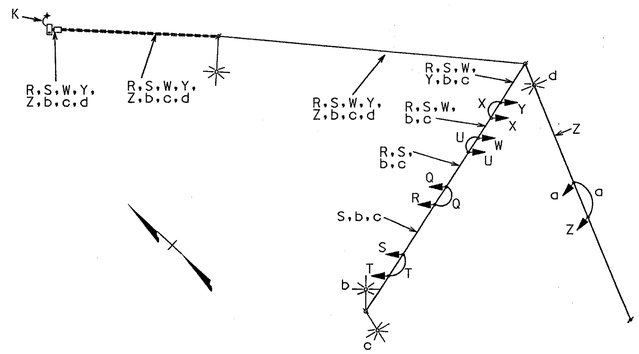
	1	2	3	4	6	7	8	9	10
PHASE 1 AND 6	~~G~~	~~G~~	G	G	R	R	R	R	R
1 AND 6 CHANGE	~~Y~~	~~Y~~	G	G	R	R	R	R	R
PHASE 2 AND 6	~~R~~	~~R~~	G	G	G	G	G	R	R
2 AND 6 CHANGE	~~R~~	~~R~~	Y	Y	Y	Y	Y	R	R
PHASE 4	~~R~~	~~R~~	R	R	R	R	R	G	G
PHASE 4 CHANGE	~~R~~	~~R~~	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/~~R~~	FL/~~R~~	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

WIRING DIAGRAM

WEST INTERSECTION



EAST INTERSECTION



WIRING KEY

A E G L M N P O R S a	5 CONDUCTOR CABLE (NO. 14 AWG)
K	1 CONDUCTOR BARE COPPER GROUND WIRE (NO. 6 AWG)
+	GROUND ROD
b c d	2 CONDUCTOR (NO. 12 AWG) TRAY CABLE
V	INTERCONNECT CABLE TO HOOKE'S LANE

STAGE 4&5

DWG NO. SS-12

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 140 (REISTERSTOWN ROAD) AND I-695

TRANSCORE
6850 Versar Center, Suite 350
Springfield Virginia 22151
Phone: 703-658-4088

DRAWN BY: J. JONES	F.A.P. NO.		TS NO. 936B-GI-X4	SHEET NO.
CHECKED BY: P. NELSON	S.H.A. NO.			
SCALE: NO SCALE	COUNTY:	BALTIMORE	T.I.M.S. NO. D-115	OF
DATE: 5-2000	LOG MILE:			