THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION 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- A NEMA (SIZE 6) SYSTEM READY CONTROLLER HOUSED IN A BASE MOUNTED CABINET IS TO BE INSTALLED AT THE ULTIMATE LOCATION AT THE EASTERN INTERSECTION. THE EAST INTERSECTION IS TO MAINTAIN CURRENT PHASING.

WEST INTERSECTION- THE TEMPORARY NEMA (SIZE 6) SYSTEM READY CONTROLLER AND CABINET IS TO BE MAINTAINED AT THE WESTERN INTERSECTION. MAINTAIN THE CURRENT PHASING.

EQUIPMENT LIST

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

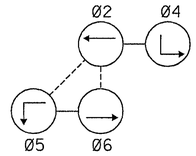
Item #	Spec #	Item	units	3west	3east	Total
900000	900	Sheet aluminum sign to consist of:	SF	0	22.5	22.5
		R3-5(L) "LEFT ONLY" SIGN 30"x36" - SPAN MOUNTED	EA	0	2	2
		R3-6 "THRU-LEFT" SIGN 30"x36" - SPAN MOUNTED	EA	0	1	1

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

Item #	Spec #	Item	units	3west	3east	Total
860265	814	Relocate existing signal head section	EA	6	0	6
801004	814	Furnish and install concrete for signal foundation	CY	0	4	4
870163	805	Furnish and install 3" schedule 80 rigid PVC conduit-trenched	LF	0	215	215
870166	805	Furnish and install 4" schedule 80 rigid PVC conduit-trenched	LF	0	10	10
805150	805	Furnish and install 3" schedule 80 rigid PVC conduit-slotted	LF	0	50	50
802501	810	Furnish and install no. 6 awg stranded bare copper ground wire	LF	0	200	200
869102	819	Furnish and install steel span wire-3/8 in. diameter	LF	0	360	360
800000	800	Furnish and install down guy & anchor.	LF	0	160	160
861107	810	Furnish and install electrical cable - 5 conductor (no. 14 awg)	LF	0	835	835
871202	816	Install controller and cabinet - base mount	EA	0	1	1
838002	807	Furnish and install control and distribution equipment	EA	0	1	1
837001	804	Furnish and install ground rod - 3/4 inch diameter X 10 foot length	EA	0	2	2
811001	811	Furnish and install electrical handhole	EA	0	3	3
800000	800	Furnish and install 50ft wooden pole	EA	0	2	2
831010	806	Furnish and install 250 watt high pressure sodium lamp and luminaire	EA	0	2	2
866104	818	Furnish and install 20 ft. lighting arm	EA	0	2	2
861116	810	Furnish and install electric cable 2 conductor / no. 12 awg	LF	0	640	640
861106	810	Furnish and install electric cable 3 conductor / no. 14 awg	LF	0	320	320
800000	800	Furnish and install coaxial cable	LF	0	320	320
813015	813	Install overhead sign	SF	0	22.5	22.5
805026	800	Furnish and install 3" schedule 80 riser	LF	0	30	30
800000	800	Furnish and install 12" vehicular traffic signal head sections	EA	0	24	24
585445		24" white permanent preformed pavement marking tape	LF	25	25	50

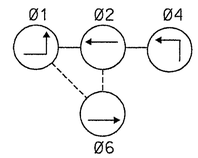
PHASE CHART

WEST INTERSECTION



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

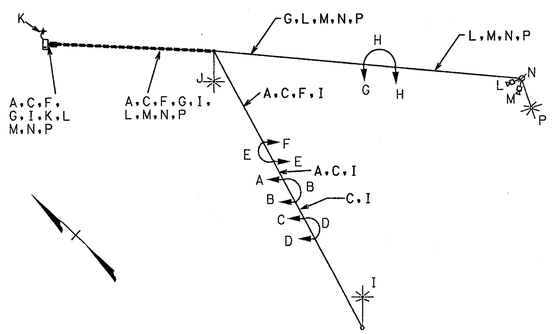
EAST INTERSECTION



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

WIRING DIAGRAM

EAST INTERSECTION



WIRING KEY

A B C D E F G H	5 CONDUCTOR CABLE (NO. 14 AWG)
I J	2 CONDUCTOR NO. 12 AWG TRAY CABLE
K	1 CONDUCTOR BARE COPPER GROUND WIRE (NO. 6 AWG)
L M	COAXIAL CABLE FOR VIDEO DETECTION
N	3 CONDUCTOR CABLE (NO. 14 AWG)
P	2 CONDUCTOR (NO. 12 AWG) TRAY CABLE
+	GROUND ROD

STAGE 3

DWG NO. SS-9

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

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

DRAWN BY: J. JONES	F.A.P. NO.		TS NO. 936B-GI-X3	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:			