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

THE INTERSECTION IS TO OPERATE IN A NEMA 6 PHASE MODE. EACH OF THE RAMPS FROM I-695 WILL HAVE ITS OWN PHASE. BOTH LEFT TURNS FROM MD 140 WILL RUN CONCURRENTLY FOLLOWED BY MD 140 EAST ONLY OR WEST ONLY. NEXT, THE THROUGH MOVEMENTS ON MD 140 WILL RUN CONCURRENTLY.

EQUIPMENT LIST

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

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Item #	Spec #	Item	units	6	7	8	9	Total
900000	900	Sheet aluminum sign to consist of:	SF	51	0	0	0	51
		R3-5(L) "LEFT ONLY" SIGN 30"x36" - SPAN MOUNTED	EA	2	0	0	0	2
		R3-1 "NO RIGHT TURN"SIGN 36"x36" - BANDED TO POLE MOUNTED	EA	2	0	0	0	2
		R5-1 "DO NOT ENTER"SIGN 36"x36" - BANDED TO POLE MOUNTED	EA	2	0	0	0	2

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

Item #	Spec #	Item	units	6	7	8	9	Total
860265	814	Relocate existing signal head section	EA	0	24	21	12	57
805135	805	Furnish and install 3" schedule 80 rigid PVC conduit-trenched	LF	20	0	0	0	20
802501	810	Furnish and install no. 6 awg stranded bare copper ground wire	LF	200	0	0	0	200
869102	819	Furnish and install steel span wire-36 in. diameter	LF	845	0	0	0	845
800000	800	Furnish and install down guy & anchor.	LF	320	0	0	0	320
861107	810	Furnish and install electrical cable - 5 conductor (no. 14 awg)	LF	1670	0	0	0	1670
837001	804	Furnish and install ground rod - 34 inch diameter X 10 foot length	EA	4	0	0	0	4
811001	811	Furnish and install electrical handhole	EA	1	0	0	0	1
800000	800	Furnish and install 50ft wooden pole	EA	4	0	0	0	4
831010	806	Furnish and install 250 watt high pressure sodium lamp and luminaire	EA	5	0	0	0	5
866104	818	Furnish and install 20 ft. lighting arm	EA	5	0	0	0	5
861116	810	Furnish and install electric cable 2 conductor/no. 12 awg	LF	1080	0	0	0	1080
861106	810	Furnish and install electric cable 3 conductor/no. 14 awg	LF	1020	0	0	0	1020
800000	800	Furnish and install video detection type TC system with cameras	EA	4	0	0	0	4
800000	800	Furnish and install coaxial cable	LF	1020	0	0	0	1020
813015	813	Install overhead sign	SF	51	0	0	0	51
800000	800	Furnish and install 3" schedule 80 riser	LF	40	0	0	0	40
800000	800	Furnish and install 12" vehicular traffic signal head section	EA	36	0	0	0	36
800000	800	Furnish and install 24" thermoplastic pavement marking for stop line	LF	125	75	65	30	295

C. Equipment to be removed and salvaged by the Contractor.

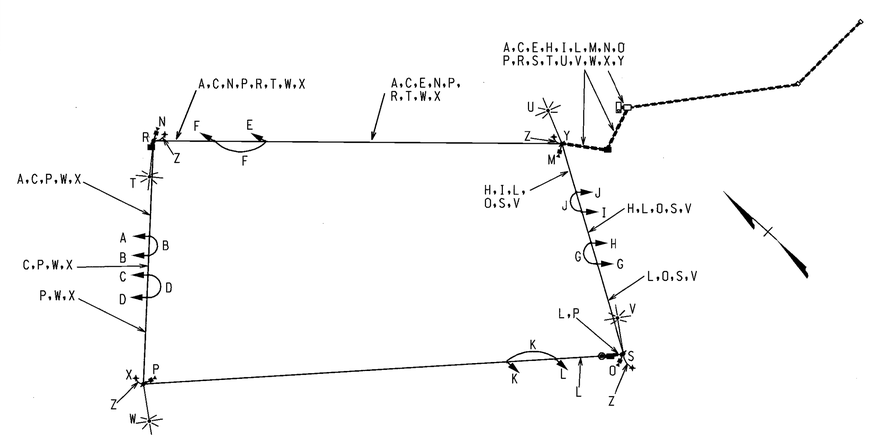
Equipment to be delivered to Mr. Dave Schwartz at OOTS, 7491 Connelley Drive, Hanover, MD, 21076.
(Notify at least 72 hours of intended delivery at (419) 787-7658)

Item #	Spec #	Item	units	6	7	8	9	Total

PHASE CHART

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

WIRING DIAGRAM



WIRING KEY

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

STAGE 6-9

1 ADDENDUM NO.1, 7/26/00, REPLACE SHEET

DWG NO. SS-16

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-X6	SHEET NO. 208 OF 256
CHECKED BY: P. NELSON	S.H.A. NO.			
SCALE: NO SCALE	COUNTY:	BALTIMORE	T.I.M.S. NO. D-115	
DATE: 5-2000	LOG MILE:			