PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF PEDESTRIAN PHASING ON THE NORTH, SOUTH, AND EAST LEGS OF THE INTERSECTION ALONG WITH THE INSTALLATION OF ADA RAMPS AND CROSSWALKS

II. INTERSECTION OPERATION

THE INTERSECTION IS TO OPERATE IN A NEMA SIX-PHASE, SEMI-ACTUATED MODE, WITH THE MD 197 APPROACHES RUNNING CONCURRENTLY. THE PEDESTRIAN PHASES CROSSING MITCHELLVILLE ROAD SHALL BE ON RECALL AND RUN CONCURRENTLY WITH THE MD 197 APPROACHES. A PEDESTRIAN PHASE WITH PUSHBUTTON ACTUATION SHALL BE PROVIDED ON EAST SIDE OF THE INTERSECTION.

EQUIPMENT LIST

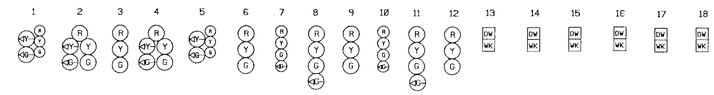
A. EQUIPMENT TO BE FURNISHED BY S.H.A. AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
9089	83.25 SF	FLAT SHEET ALUMINUIM SIGN
		2 EA R10-3C "PEDESTRIAN EDUCATION SIGN (9" X 12") (NOTE SIGN TO READ PUSH BUTTON TO CROSS MD 197)
		1 EA ASSOCIATED SHIELD ASSEMBLEY "M3-2 "SOUTH" (30"X15"), M1-6 "MARYLAND 197" (48"X36"), M6-1 "ARROW" (30"X24")" SIGN. (48"X75") POLE MOUNTED WITH HARDWARE
		1 EA ASSOCIATED SHIELD ASSEMBLEY "M3-2 "(30"X15"), M1-6 "MARYLAND 197" (48"X36"), M6-1 "ARROW" (30"X24")" SIGN. (48"X75") POLE MOUNTED WITH HARDWARE
		1 EA ASSOCIATED SHIELD ASSEMBLEY "M3-2 "NORTH" (24"X12"), M1-6 "MARYLAND 197" (24"X30"), M6-1 "ARROW" (21"X15")" SIGN. (30"X51") POLE MOUNTED WITH HARDWARE
		1 EA ASSOCIATED SHIELD ASSEMBLEY "M3-2 "SOUTH" (24"X12"), M1-6 "MARYLAND 197" (24"X30"), M6-1 "ARROW" (21"X15")" SIGN. (30"X51") POLE MOUNTED WITH HARDWARE
9090	12 SF	FLAT SHEET ALUMINUIM SIGN
		1 EA D3(3) "24"X72" (MITCHELLVILLE RD NEXT SIGNAL) GROUND MOUNT
9096	2 EA	PED PUSHBUTTON

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

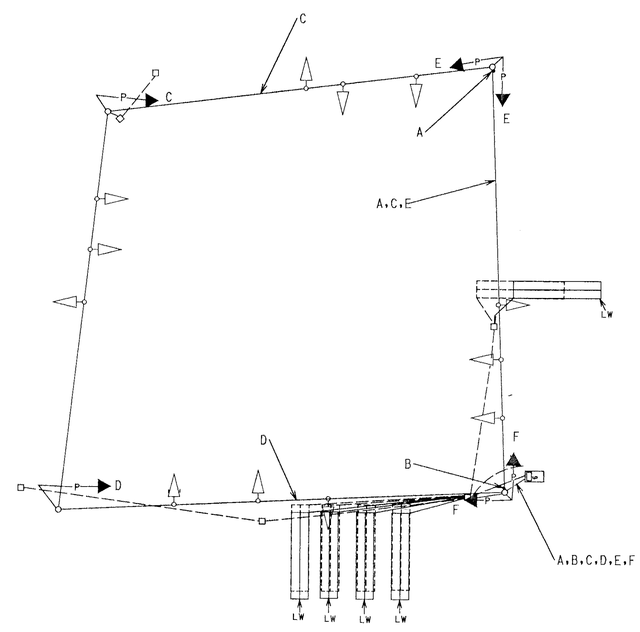
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5003	710 LF	12" WHITE HEAT APPLIED PERMANENT PREFORMEDTHERMOPLASTICPAVEMENT MARKINGS
5004	95 LF	24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTICPAVEMENT MARKINGS
5007	150 LF	REMOVE EXISTING PAVEMENT MARKINGS
6001	468 SF	4" CONCRETE SIDEWALK
6009	60 LF	FURNISH AND INSTALL DEPRESSED CURB AND GUTTER
8000	60 LF	REMOVE EXISTING CURB AND GUTTER
8021	660 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP
8022	30 LF	FURNISH AND INSTALL 1" ELECTRICAL CONDUIT-GALVANIZED SLEEVE
8040	2,370 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)
8042	310 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO 14 AWG)
8043	580 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO 14 AWG)
8044	270 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG)
8051	32 LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X4"
8052	12 SF	INSTALL GROUND MOUNTED SIGN
8053	72.8 SF	INSTALL OVERHEAD MOUNTED SIGN
8087	12 EA	FURNISH AND INSTALL 12" PEDESTRIAN SIGNAL HEAD SECTION
		2 EACH 12" 1-WAY 2-SECTION PEDESTRIAN SIGNAL (SIDE OF POLE MOUNT)
		2 EACH 12" 2-WAY 2-SECTION PEDESTRIAN SIGNAL (SIDE OF POLE MOUNT)
8018	2 EA	INSTALL PUSHBUTTON AND SIGN

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Phase 1 & 5	◄G-R	◄G-R	R	◄G-R	◄G-R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6																	
Phase 1 & 6	R	R	R	◄G-G	◄G-G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 Change	R	R	R	◄Y-G	◄Y-G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
Phase 2 & 5	◄G-G	◄G-G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
5 Change	◄Y-G	◄Y-G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
Phase 3	R	R	R	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW	DW	DW
3 Change	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
Phase 4	R	R	R	R	R	R	G	G	G	R	R	R	DW	DW	DW	DW	DW	DW
4 Change	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
4 Alt.	R	R	R	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW	WK	WK
Ped. Clear	R	R	R	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW
4 Alt. Change	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



A 2-CONDUCTOR ELECTRICAL
B CABLE (NO. 14 AWG)

C 3 CONDUCTOR ELECTRICAL
D CABLE (NO. 14 AWG)

E 5 CONDUCTOR ELECTRICAL
F CABLE (NO. 14 AWG)

LW LOOPWIRE (NO. 14 AWG)

REVISIONS	APPROVALS
(E) INSTALL PEDESTRIAN PHASING ON NORTH SOUTH AND EAST LEGS OF INTERSECTION 6/99 JAM	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
(D) 9/16/98 MODIFY DUE TO ULTIMATE GEOMETRICS ON MITCHELLVILLE ROAD SHA NO.: BW833M02 R.H.Z.	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
C 1-96 MODIFY SIGNAL DUE TO GEOMETRIC IMPROVEMENTS ON E.B. MITCHELLVILLE RD SHA NO.:BW833M02 R.H.Z.	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
B 8/92 CHANGE EXCLUSIVE LEFT TURN PHASE TO EXCLUSIVE/PERMISIVE BT	DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 197 AT MITCHELLVILLE RD

DRAWN BY: JEFF HENKEL	F.A.P. NO.		TS NO. 2463E	SHEET NO.
CHECKED BY:	S.H.A. NO.	P-410-503-372		
SCALE: NOT TO SCALE	COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO. D-274	02 OF 02
DATE: 5/25/99	LOG MILE:	16019700.33		