PROJECT DESCRIPTION
GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF MD 650 (NEW HAMPSHIRE AVENUE) AND MAHAN ROAD/ SCHINDLER DRIVE IN MONTGOMERY COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE:

PROJECT CONTACTS:

MR. LEE STRAKLOFF, ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: (301) 513-7300
MR. RALEIGH MEDLEY, ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: (301) 513-7300
MR. DENNIS MCMAHON, ASSIATANT DISTRICT ENGINEER-CONSTRUCTION
PHONE (301) 513-7336
MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER-UTILITY
PHONE: (310) 513-7300
MR. RICHARD L. DAFF, Sr., CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. BOBBY GONZALES, TRAFFIC ENGINEER MCDPWT
PHONE: (240) 777-2190

2. MAINTENANCE OF TRAFFIC SHOULD BE HANDLED BY THE CONTRACTOR USING MDSHA STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	BASE MOUNTED (SIZE 6) CABINET (MSHA SPECIFICATION) WITH ECONOLITE ASC II 2100 CONTROLLER, SSM 12 E CONFLICT MONITOR, VIDEO INTERFACE EQUIPMENT, LAU PANEL AND RELAY PACKAGE WIRED TO MONTGOMERY COUNTY SPECIFICATIONS.	EA	1
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF:	SF	205
	R10-12 (36"x42") MAST ARM MOUNT	EA	2
	R10-4 (MOD) (12"X9")	EA	1
	R3-6 (30"x36")	EA	1
	R3-5(R) (30"x36")	EA	1
	R3-6 (30"x36")	EA	1
	D-3(1) (16" x VAR.)	EA	4
	D-3(1) (32"x VAR.)	EA	4
	GUIDE SHIELD ASSEMBLY (30"X51")	EA	2
	GUIDE SHIELD ASSEMBLY (48"X75")	EA	2

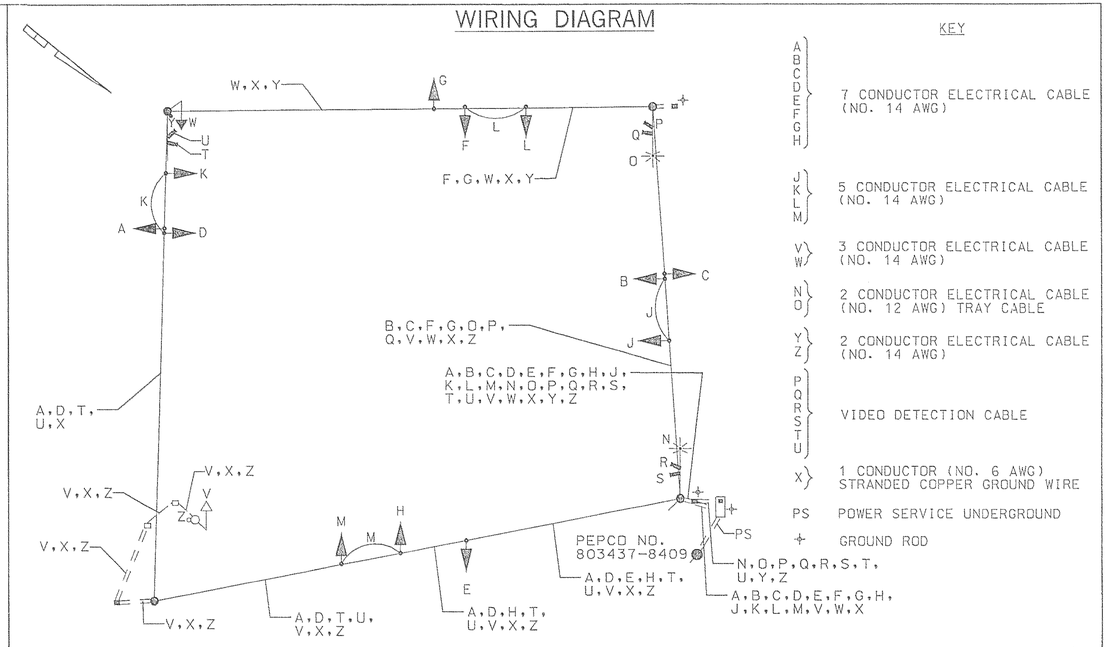
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	4
585620	12" WHITE HEAT APPL. THERMO. PAVEMENT MARK	LF	100
585624	24" WHITE HEAT APPL. THERMO. PAVEMENT MARK.	LF	50
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	21
813015	INSTALL OVERHEAD SIGN	SF	205
805125	2" SCHED. 80 PVC CONDUIT - TRENCHED	LF	40
805135	3" SCHED. 80 PVC CONDUIT - TRENCHED	LF	200
805140	4" SCHED. 80 PVC CONDUIT - TRENCHED	LF	30
807400	ELECTRICAL UTILITY SERVICE EQUIPMENT	EA	1
811001	HANDHOLE	EA	3
816001	VIDEO DETECTION CAMERA	EA	6
816010	CONTROL CABLE FROM CARMERA TO CONTROLLER (500' LENGTH CABLE)	EA	6
818009	14" X 32' STRAIN POLE (2 PLY)	EA	4
831010	250 WATT HPS LAMP AND LUMINAIRE	EA	2
832020	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	150
837001	GROUND ROD - 3/4" X 10'	EA	4
860272	12" SIGNAL HEAD SECTION	EA	48
860278	12" PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT	EA	2
861105	2-COND., NO. 14 AWG ELECT. CABLE	LF	700
861106	3-COND., NO. 14 AWG ELECT. CABLE	LF	700
861107	5-COND., NO. 14 AWG ELECT. CABLE	LF	275
861108	7-COND., NO. 14 AWG ELECT. CABLE	LF	1680
861116	2-COND., NO. 12 AWG ELECT. CABLE	LF	250
861117	ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)	LF	70
865001	PUSHBUTTON AND SIGN	EA	1
866103	15' LIGHTING ARM	EA	3
869102	STEEL SPAN WIRE 3/8" DIA	LF	800
871202	INSTALL CONTROLLER AND CABINET - BASE MT	EA	1
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1

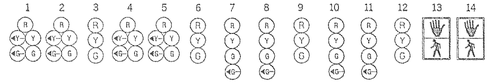
C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET .THE CABINET AND ALL OTHE MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 AND 5	←G—	←G—	R	←G—	←G—	R	R	R	R	R	R	R	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6														
PHASE 1 AND 6	←GG—	←GG—	G	R	R	R	R	R	R	R	R	R	DW	DW
1 AND 6 CHANGE	←YG—	←YG—	Y	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 AND 5	R	R	R	←GG—	←GG—	G	R	R	R	R	R	R	DW	DW
2 AND 5 CHANGE	R	R	R	←YG—	←YG—	Y	R	R	R	R	R	R	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	G ←G—	G ←G—	G	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW
3 ALT CHANGE	R	R	R	R	R	R	R	R	R	G ←G—	G ←G—	G	WK	WK
PED CLEARANCE	R	R	R	R	R	R	R	R	R	G ←G—	G ←G—	G	FL /DW	FL /DW
PHASE 3 ALT	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW
4 CHANGE	R	R	R	R	R	R	G ←G—	G ←G—	G	R	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	Y	Y	Y	R	R	R	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	DW	DW

SG. 16

MAINTENANCE OF TRAFFIC PLAN - PHASE 2A

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN

MD 650 (NEW HAMPSHIRE AVENUE) AND MAHAN ROAD /SCHINDLER DRIVE

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-8564
WWW.SABRA-WANG.COM

DRAWN BY:	S. SMITH	F.A.P. NO.	SEE TITLE SHEET	TS NO. 701B	SHEET NO.
CHECKED BY:	K. RINKER	S.H.A. NO.	M0900517I		
SCALE:	1" = 20'	COUNTY:	MONTGOMERY	T.I.M.S. NO. E966	173 OF 273
DATE:	MARCH 2003	LOG MILE:	I5065002.04		