

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE REMOVAL OF THE EXISTING SIGNAL, AND INSTALLATION OF A TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF MD 586 (VEIRS MILL ROAD) AT ASPEN HILL ROAD IN MONTGOMERY COUNTY.

INTERSECTION OPERATION

A MONTGOMERY COUNTY TYPE SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A SEMI-ACTUATED MODE USING 4 NEMA PHASES.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. LEE STARKLOFF, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7318
MR. DENNIS MCMAHON, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 513-7336
MR. RALEIGH MEDLEY, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304
MR. AUGIE REBISH, UTILITY ENGINEER
PHONE: (301) 513-7350
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. BOBBY GONZALES, TRAFFIC ENGINEER - MONTGOMERY COUNTY TRANSPORTATION MANAGEMENT CENTER
PHONE: (240) 777-8761

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	BASE MOUNTED (SIZE-6) CABINET (MSHA SPECIFICATIONS) WITH ECONOLITE ASC 2 2100 CONTROLLER, SSM 12 E CONFLICT MONITOR, POWER SUPPLY FOR RACK MOUNTED DETECTION, LAU PANEL AND RELAY PACKAGE WIRED TO MONTGOMERY COUNTY SPECIFICATIONS AND VIDEO DETECTION INTERFACE EQUIPMENT	EA	1
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: D-3(1) (VAR.X16") R3-4 (30"X30") R3-5L (30"X36") R3-5R (30"X36") R10-11(30"X30") SHIELD ASSEMBLY SIGN (48"X75") SHIELD ASSEMBLY SIGN (30"X51")	SF EA EA EA EA EA EA	108 1 1 2 3 1 1

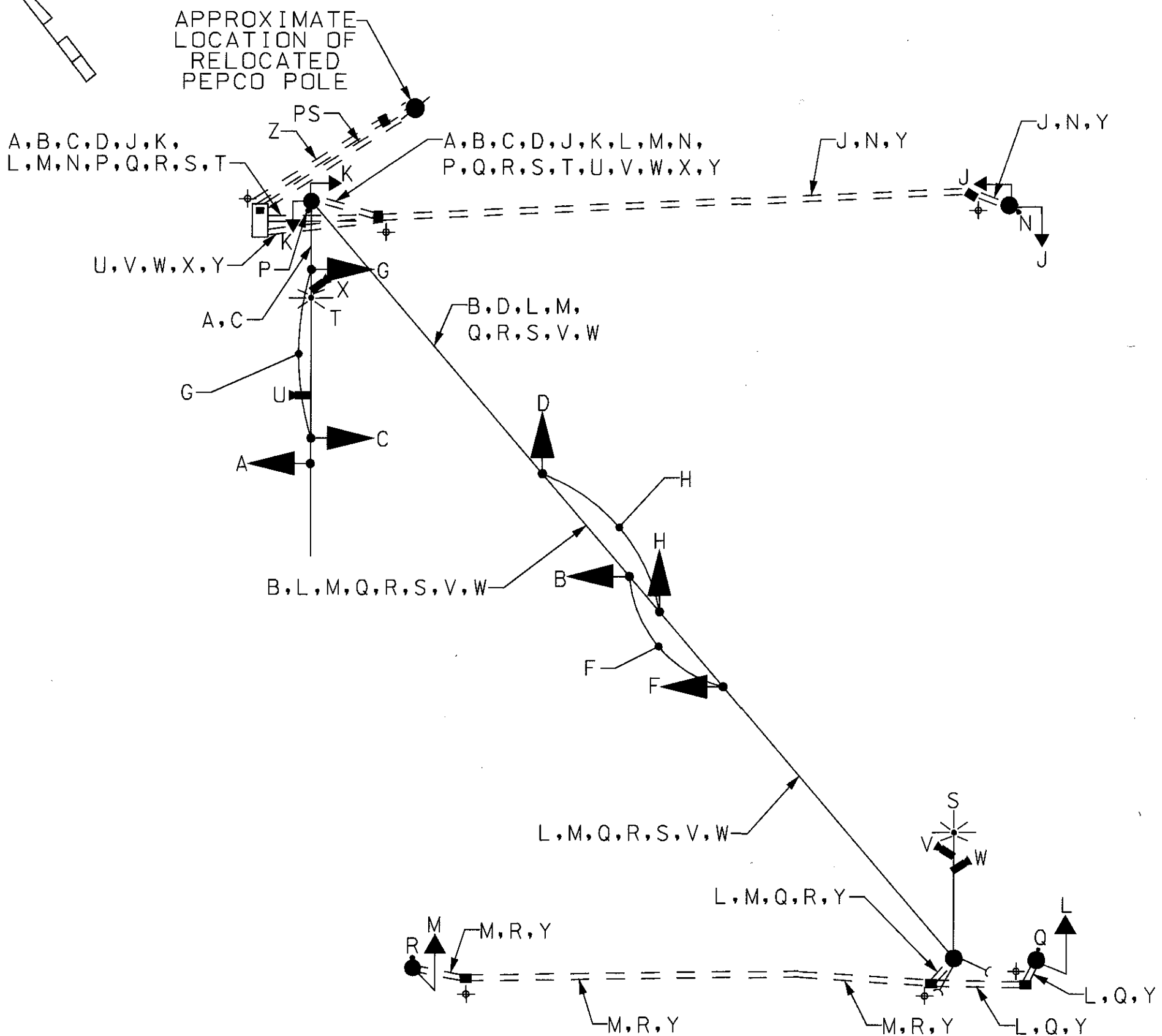
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	3
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	12
813015	INSTALL OVERHEAD SIGN	SF	108
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	300
805032	3 INCH U-GUARD SCHED 80 PVC CONDUIT RISER	LF	50
805050	WEATHER HEAD, 3 INCH	EA	1
805135	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	200
805140	4 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	80
805155	4 INCH SCHED. 80 PVC CONDUIT-SLOTTED	LF	100
807400	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS, 60 AMPS	EA	1
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	6
816005	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
816010	CONTROL CABLE, 500 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
818041	STEEL POLE WITH A SINGLE 60 FOOT MAST ARM	EA	1
800000	CLASS II WOOD POLE 40 FT	EA	1
822002	12 PAIR COMMUNICATION I/C CABLE	LF	55
831010	250 WATT HPS LAMP AND LUMINAIRE WITH PHOTOCELL	EA	2
837001	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	6
860272	12 VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	27
860278	12 PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT	EA	4
860282	12 PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT	EA	8
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	600
861106	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)	LF	450
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	250
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	350
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	300
861117	ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)	LF	150
865001	PUSHBUTTON AND SIGN	EA	4
866103	15 FT LIGHT ARM/SIGNAL POLE	EA	1
866104	20 FT LIGHT ARM/SIGNAL POLE	EA	1
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1
816001	VIDEO DETECTOR CAMERA	EA	4

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

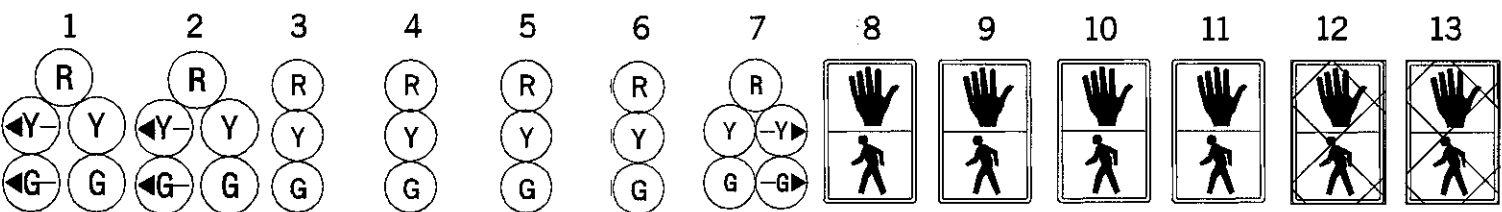
WIRING DIAGRAM



KEY

- A } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
B }
C }
D }
F } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
G }
H }
J }
K }
L } 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
M }
N } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
P }
Q }
R }
S } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
T }
U } VIDEO DETECTION CABLE
V }
W }
X }
Y } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
Z } 12 PAIR INTERCONNECT CABLE
PS } POWER SERVICE UNDERGROUND 3 WIRE 1 CONDUCTOR (NO. 4 AWG)
+ } GROUND ROD

PHASE CHART



PHASE 1 AND 6	G	G	G	R	R	R	R	DW	DW	DW	DW		
1 AND 6 CHANGE	G	G	G	R	R	R	R	DW	DW	DW	DW		
PHASE 2 AND 6	G	G	G	G	G	R	R	W/K	W/K	DW	DW		
PED CLEARANCE	G	G	G	G	G	R	R	FLDW	FLDW	DW	DW		
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	DW	DW	DW	DW		
PHASE 4	R	R	R	R	R	G	G	DW	DW	DW	DW		
4 CHANGE	R	R	R	R	R	Y	Y	DW	DW	DW	DW		
PHASE 4 ALT	R	R	R	R	R	G	G	DW	DW	W/K	W/K		
PED CLEARANCE	R	R	R	R	R	G	G	DW	DW	FLDW	FLDW		
4 ALT CHANGE	R	R	R	R	R	Y	Y	DW	DW	DW	DW		
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK		

TSP 2

ADDENDUM No.1
05- - 2003
REPLACE THIS SHEET

SABRA, WANG & ASSOCIATES, INC.
1604 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
WWW.SABRA-WANG.COM

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
MD 586 AT ASPEN HILL ROAD
MOT PHASE 1A

DRAWN BY: SHAOJIA DU	F.A.P. NO. SEE TITLE SHEET	TS NO. 4237A	SHEET NO.
CHECKED BY: KEITH RINKER	S.H.A. NO. M08165/71		
SCALE: NTS	COUNTY: MONTGOMERY	T.J.M.S. NO. F213 X	
DATE: FEBRUARY 2003	LOG MILE: 15058601.97		57 OF 80