EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

CATEGORY CODE	DESCRIPTION	UNITS	QUANTITY
900000	ECONOLITE ASC II CONTROLLER WITH TELEMETRY AND RACK MOUNTED AMPLIFIERS, BASE MOUNTED (SIZE 6) CABINET	EA	1
973023	SHEET ALUMINUM SIGNS CONSISTING OF:	SF	252
	SHIELD ASSEMBLY (30"X51")	EA	3
	SHIELD ASSEMBLY (48"X75")	EA	3
	SHIELD ASSEMBLY (30"X65")	EA	1
	SHIELD ASSEMBLY (48"X90")	EA	1
	R10-3(1) (9"x15") POLE MOUNT	EA	4
	SIGN TO READ "PUSHBUTTON TO CROSS VEIRS MILL" R10-3(1) (9"x15") POLE MOUNT	EA	4
	SIGN TO READ "PUSHBUTTON TO CROSS FIRST STREET" R3-5(L) (30"x36") MAST ARM MOUNT	EA	4
	D3-2 (72"x16") MAST ARM MOUNT	EA	8

QUANTITES

CAT CODE	UNITS	QUANTITY	DESCRIPTION
203030	CY	7	TEST PIT EXCAVATION
585621	LF	1100	12 INCH WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING
585625	LF	190	24 INCH WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING
800000	EA	8	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
800000	EA	1	2-WIRE CENTRAL CONTROL UNIT
800000	LS	1	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
800000	LF	4	TERRA VIDEO DETECTION CAMERA
800000	EA	8	AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	LF	100	CABLE 1-CONDUCTOR, 250 KCMIL
800000	LF	630	4 INCH SCHEDULE 80 PVC CONDUIT
800000	EA	1	SPECIAL-T POLE WITH 50 FOOT MAST ARM
800000	LF	200	ELECTRICAL CABLE - 3 CONDUCTOR NO. 10 AWG.
801004	CY	22	CONCRETE FOR SIGNAL FOUNDATIONS
801106	LF	105	WOOD SIGN SUPPORT 4 INCH X 6 INCH
802501	LF	800	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	LF	20	2 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED
805135	LF	170	3 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED
805140	LF	120	4 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED**
805155	LF	550	4 INCH SCHEDULE 80 PVC CONDUIT - SLOTTED**
807202	EA	1	METERED SERVICE PEDESTAL
810010	LF	100	CABLE 1-CONDUCTOR, NO. 4 AWG THHN/THWN
811001	EA	11	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813010	EA	2	BAND SIGN TO SUPPORT
813014	SF	100	INSTALL GROUND MOUNTED SIGN
813015	SF	102	INSTALL OVERHEAD SIGN
818004	EA	8	10 FOOT BREAKAWAY BASE PEDESTAL POLE
818036	EA	2	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
818052	EA	1	STEEL POLE WITH A SINGLE 70 FOOT MAST ARM
822002	LF	400	12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)
837001	EA	10	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH
860284	EA	54	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861105	LF	2050	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	LF	2230	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	LF	3200	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
871202	EA	1	INSTALL CONTROLLER AND CABINET - BASE MOUNT

** SLOTTED/TRENCHED CONDUIT NOTE: FOR TWO CONUDITS IN A TRENCH OR SLOT, ONLY ONE WILL BE PAID AS SLOTTED OR TRENCHED, THE SECOND WILL BE PAID FOR CONDUIT ONLY.

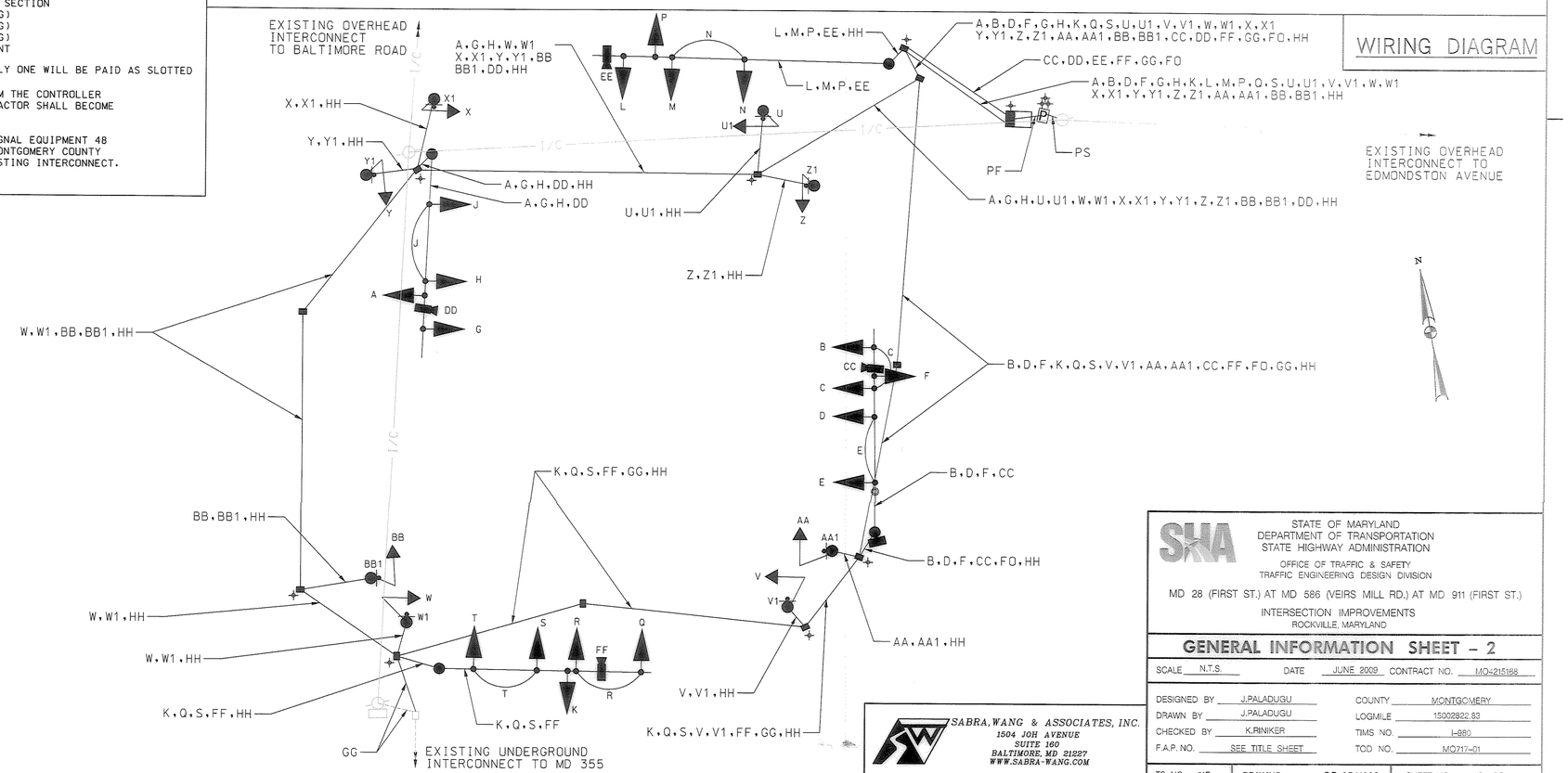
C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

NOTE: THE CONTRACTOR SHALL CONTACT KEITH LORD FOR LOCATING ALL EXISTING SIGNAL EQUIPMENT 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL ALSO CONTACT KAMAL HAMUD OF MONTGOMERY COUNTY PRIOR TO INSTALLING NEW INTERCONNECT CABLE AND DISCONNECTING THE EXISTING INTERCONNECT.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	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	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G								
PHASE 1 AND 5	←G–	←G–	←G–	R	R	←G–	←G–	R	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																										
PHASE 1 AND 6	←G–	←G–	←G–	G	G	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	W	DW	DW	W	DW	DW	DW	DW
1 CHANGE	←Y–	←Y–	←Y–	G	G	←R–	←R·	R	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	W	DW	DW	W	DW	DW	DW	DW
PHASE 2 AND 5	←R–	←R–	←R–	R	R	←G–	←G–	G	G	←R–	←R–	R	R	←R–	←R–	←R–	R	R	DW	W	W	DW	DW	DW	DW	DW
5 CHANGE	←R–	←R–	←R–	R	R	←Y–	←Y–	G	G	←R–	←R–	R	R	←R–	←R–	←R–	R	R	DW	W	W	DW	DW	DW	DW	DW
PHASE 2 AND 6	←R–	←R–	←R–	G	G	←R–	←R–	G	G	←R–	←R–	R	R	←R–	←R–	←R–	R	R	W/K	W/K	W/K	W/K	DW	DW	DW	DW
PED CLEARANCE	←R–	←R–	←R–	G	G	←R–	←R–	G	G	←R–	←R–	R	R	←R–	←R–	←R–	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 AND 6 CHANGE	←R–	←R–	←R–	Y	Y	←R–	←R–	Y	Y	←R–	←R–	R	R	←R–	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 AND 8	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←G–	←G–	G	G	←R–	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←Y–	←Y–	G	G	←R–	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	G	G	←R–	←R–	←R–	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	Y	Y	←R–	←R–	←R–	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	R	R	←G–	←G–	←G–	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 7 CHANGE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	R	R	←Y–	←Y–	←Y–	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 ALT	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	G	G	←R–	←R–	←R–	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	G	G	←R–	←R–	←R–	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 AND 8 ALT CHANGE	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	Y	Y	←R–	←R–	←R–	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



KEY

- A B F G H K L M P Q S — 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C E J N R AA BB T U V W X Y Z — 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- U1 V1 W1 X1 Y1 Z1 AA1 BB1 — 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- CC,DD EE,FF — VIDEO DETECTION CAMERA CABLE
- GG — 12-PAIR INTERCONNECT CABLE
- PS — 1 CONDUCTOR 250 KCMIL - 3 RUNS
- PF — POWER SERVICE UNDERGROUND 1 CONDUCTOR (NO. 4 AWG THHN/THWN) - 3 RUNS
- HH — 1 CONDUCTOR (NO.6 AWG) STRANDED COPPER GROUND WIRE
- + GROUND ROD
- FO — 3 CONDUCTOR CABLE NO.10 AWG

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 28 (FIRST ST.) AT MD 586 (VEIRS MILL RD.) AT MD 911 (FIRST ST.)
INTERSECTION IMPROVEMENTS
ROCKVILLE, MARYLAND

GENERAL INFORMATION SHEET - 2

SCALE N.T.S.	DATE JUNE 2009	CONTRACT NO. MO4215188	
DESIGNED BY J.PALADUGU		COUNTY MONTGOMERY	
DRAWN BY J.PALADUGU		LOGMILE 15002822.83	
CHECKED BY K.RINIKER		TIMS NO. I-980	
F.A.P. NO. SEE TITLE SHEET		TOD NO. MO717-01	
TS NO. 51F	DRAWING pSG OF N002	SHEET NO. 19 OF 28	

PLOTTED: Monday, May 18, 2009 AT 11:57 AM
FILE: R:\2005\08 STV_Dist 3 Eng Svcs BCS 2005-0/H\Task 5 MD 28 MD 586\Dwg\signal\pSG-N002_MD 28.dgn