

**PROJECT DESCRIPTION**

**I. GENERAL**

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 193 AND 58TH AVE IN PRINCE GEORGE'S COUNTY, MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**II. INTERSECTION OPERATION**

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR BOTH APPROACHES OF MD 193. MD 193 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. 58TH AVE / BRANCHVILLE RD THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE EAST LEG OF THE INTERSECTION.

**EQUIPMENT LIST FOR CONTRACT NO. XX3545168F**

**A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION**

ITEM	QUANTITY	UNIT	DESCRIPTION
9000	1	EA	SIZE "S" CABINET WITH CONTROLLER AND VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
9570	16	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN
	2	EA	OM 1-3 (18" X 18")
	2	EA	R4-7 (24" X 30")
	1	EA	R7-2 (12" X 18")
9571	67	SF	[UPDATED] SHEET ALUMINUM MAST ARMPOLE MOUNTED SIGN
	4	EA	D-3 (VAR. X 16") MAST ARM MOUNTED
	2	EA	M1-5(4) (78" X 36") MAST ARM MOUNTED
	2	EA	R10-3(1) (9" X 15") POLE MOUNTED

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

ITEM	QUANTITY	UNIT	DESCRIPTION
203030	4	CY	TEST PIT EXCAVATION
585621	450	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	155	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
800000	1	EA	REMOVE & DISPOSE OF SIGNAL EQUIPMENT
800000	575	LF	DISCONNECT, PULL-BACK & REROUTE CABLES
800000	6	EA	8 INCH LED SIGNAL HEAD SECTION
800000	6	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	6	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	100	LF	1-CONDUCTOR, 250 KCML, CO, USE ELECTRICAL CABLE
800000	1	EA	2-WIRE CENTRAL CONTROL UNIT
801004	15	CY	CONCRETE FOR SIGNAL FOUNDATION
801104	95	LF	WOOD SIGN SUPPORTS 4" X 4"
813014	16	SF	INSTALL GROUND MOUNTED SIGN
813015	67	SF	INSTALL OVERHEAD SIGN
816001	4	EA	VIDEO DETECTION CAMERA
802501	625	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805050	2	EA	WEATHER HEAD 3 INCH
805115	100	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805118	90	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805125	30	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805135	75	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805140	50	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805155	300	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
807500	1	EA	EMBEDDED METERED SERVICE PEDESTAL
810022	25	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
811001	4	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
811002	5	EA	REMOVE ELECTRICAL HANDHOLE
818004	4	EA	10' BREAKAWAY PEDESTAL POLE
818030	1	EA	STEEL POLE WITH 38' SINGLE MAST ARM
818036	2	EA	STEEL POLE WITH 50' SINGLE MAST ARM
818052	2	EA	STEEL POLE WITH 70' SINGLE MAST ARM
833060	60	EA	3 INCH SCHEDULE 80 PVC RISER
837001	7	EA	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH
860284	38	EA	12 INCH LED SIGNAL HEAD SECTION
860292	1	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	1250	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1370	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1850	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
871202	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

**C. EQUIPMENT TO BE REMOVED BY SHA**

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. ALL OTHER EXISTING SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

**CONTACTS**

Ms. Felecia Murphy (PG)  
Assistant District Engineer - Traffic  
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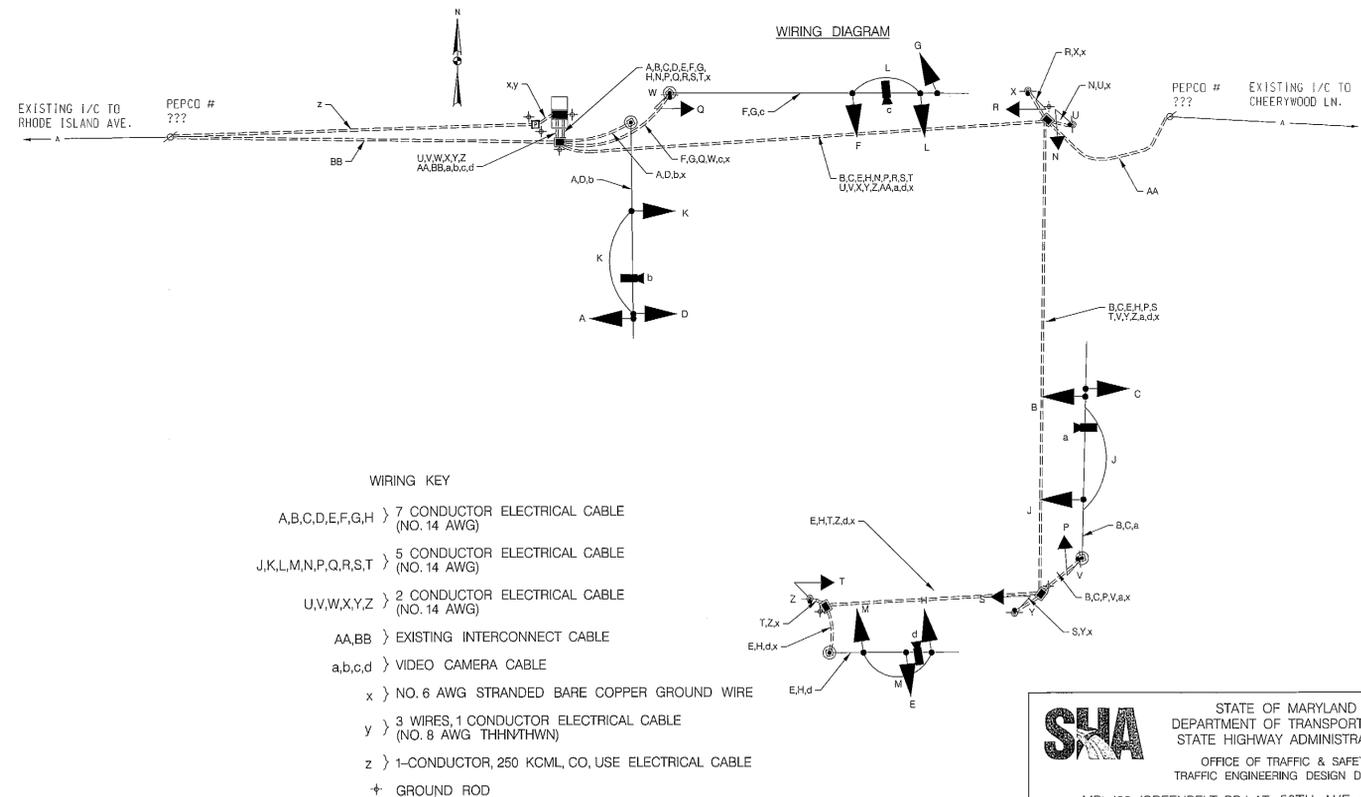
Mr. Sonny Bailey  
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**PHASE CHART**

PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 AND 5	G/R	G/R	R	G/R	G/R	R	R	R	R	R	R	R	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	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	Y/G	Y/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	G/R	G/R	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	Y/G	Y/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	DW	DW	WK	WK
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW	FL/DW	FL/DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	WK	WK	DW	DW
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	FL/DW	FL/DW	DW	DW
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/R	DARK	DARK	DARK	DARK	DARK	DARK											



**NOTE:**

THE CONTRACTOR WILL "WORK WITH" PEPCO ON THE INSTALLATION OF THE 3 WIRES, 1 CONDUCTOR, 250 KCML, CO, USE ELECTRICAL CABLE. IT HAS BEEN ASSUMED THAT DURING THE "WORK WITH" ADDITIONAL CABLE WILL BE COILED AND ATTACHED (TO THE WOOD POLE) TO PEPCO STANDARDS.

**BAI BRUDIS & ASSOCIATES, INC.**  
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**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 193 (GREENBELT RD.) AT 58TH AVE./BRANCHVILLE RD.  
BERWYN HEIGHTS, MD

**GENERAL INFORMATION PLAN SHEET**

SCALE: N.T.S. ADVERTISED DATE: 03/2012 CONTRACT NO.: PG8925177

DESIGNED BY: CW COUNTY: PRINCE GEORGE'S  
DRAWN BY: CW LOGMILE: 16019305.04  
CHECKED BY: RM M.F. TMS NO.: J910  
F.A.P. NO.: TOD NO.:

TS NO. 1177A-G1 DRAWING SG-3 OF 3 SHEET NO. OF

BY: chuck