

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES UPGRADING THE EXISTING PEDESTRIAN SIGNAL HEADS TO LED COUNTDOWN PEDESTRIAN SIGNAL HEADS AND THE EXISTING TRAFFIC SIGNAL HEADS TO LED TRAFFIC SIGNAL HEADS AT THE INTERSECTION OF MD 650 (NEW HAMPSHIRE AVENUE) AND POWDER MILL ROAD IN MONTGOMERY COUNTY.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX PHASE, FULLY-ACTUATED MODE, WITH THE MD 650 APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE LEFT TURN PHASES ARE PROVIDED FOR BOTH APPROACHES OF MD 650. POWDER MILL ROAD OPERATES AS A SPLIT PHASE. ALTERNATE PEDESTRIAN PHASES WITH PUSH BUTTON ACTUATION ARE PROVIDED ACROSS BOTH LEGS OF MD 650 AND THE PEDESTRIAN PHASE ACROSS POWDER MILL ROAD APPROACHES RUN ON RECALL.

SPECIAL NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE. THE CONTRACTOR SHALL NOTIFY MR. KAMAL HAMUD AT (240) 777-8761 72 HOURS IN ADVANCE OF ALL WORK.

EQUIPMENT LIST FOR CONTRACT NO. XX3395185

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM	QUANTITY	UNIT	DESCRIPTION
NONE.			

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

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
8006	8	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8007	46	EA	LED SIGNAL HEAD MODULES ANY SIZE
8008	1	EA	REMOVE & DISPOSE OF EQUIPMENT PER ASSIGNMENT
8019	720	LF	ELECTRICAL CABLE - 5 CONDUCTOR NO 14 AWG

C. ALL EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. JEFFERY WENTZ
Assistant District Engineer - Traffic
Phone: (301) 513-7358

Mr. Wayne Mowdy
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

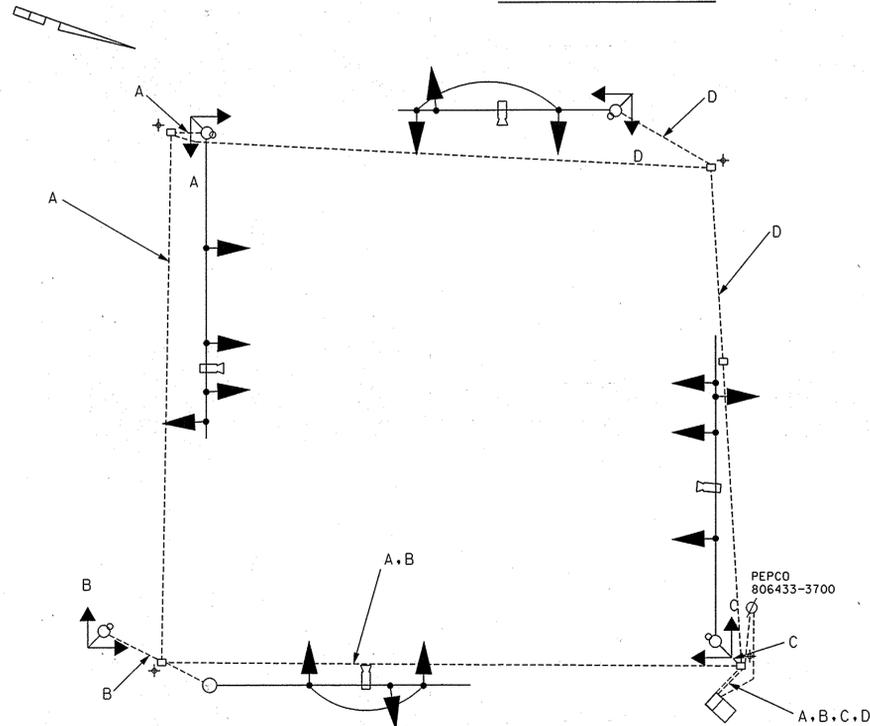
Mr. Ed Rodenhizer
Supervisor, Signal Operations
Phone: 410-787-7650

MR. KAMAL HAMUD
Montgomery County
Phone: 240-777-8761

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PHASE 1 AND 5	←G-	←G-	R	R	←G-	←G-	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	←R-	←R-	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
1 AND 6 CHANGE	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 2 AND 5	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
2 AND 5 CHANGE	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PHASE 2 AND 6	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 AND 6 CHANGE	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	G	R	R	R	DW	DW	DW	DW	WK	DW	DW	WK
PED CLEARANCE	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	G	R	R	R	DW	DW	DW	DW	FL/DW	DW	DW	FL/DW
3 ALT CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4	←R-	←R-	R	R	←R-	←R-	R	R	R	R	←G-	←G-	G	DW	DW	DW	DW	DW	DW	DW	DW	DW
4 CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	R	R	←G-	←G-	G	DW	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	←R-	←R-	R	R	←R-	←R-	R	R	R	R	←G-	←G-	G	DW	DW	DW	DW	DW	WK	DW	DW	WK
PED CLEARANCE	←R-	←R-	R	R	←R-	←R-	R	R	R	R	←G-	←G-	G	DW	DW	DW	DW	DW	FL/DW	FL/DW	DW	DW
4 ALT CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	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	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A } PROPOSED 5 CONDUCTOR
B } ELECTRICAL
C } CABLE (NO. 14 AWG)

NOTE: ALL EXISTING TRAFFIC SIGNAL CABLES TO REMAIN.

TOD NO: XX339-03
SHA NO: MO211A51/B51
MD 650@ POWDER MILL RD

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 650 (NEW HAMPSHIRE AVENUE) @ POWDER MILL ROAD
TRAFFIC SIGNAL MODIFICATION

GENERAL INFORMATION PLAN SHEET

SCALE	NTS	ADVERTISED DATE	11-15-08	CONTRACT NO.	XX3395185
DESIGNED BY	NG	COUNTY	MONTGOMERY		
DRAWN BY	NG	LOGMILE	15065003.46		
CHECKED BY	JB	TIMS NO.	J457		
F.A.P. NO.		TOD NO.			
TS NO. 1354-D GI	DRAWING	OF		SHEET NO. 2	OF 2

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BY: Kevin