

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES UPGRADING THE PEDESTRIAN TRAFFIC SIGNAL EQUIPMENT TO APS/CPS AND THE EXISTING TRAFFIC SIGNAL HEADS TO LED MODULES, AT THE INTERSECTION OF MD 450 AND BELAIR DR IN PRINCE GEORGE'S COUNTY, MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR BOTH APPROACHES OF MD 450. MD 450 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY, BELAIR DR THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THERE IS AN ALTERNATE PEDESTRIAN PHASE FOR THE WEST LEG OF THE INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. XX2245185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9570	6	SF	UPDATED SHEET ALUMINUM GROUND MOUNTED SIGN
	6	EA	R10-3(I) (9' X 15') GROUND MOUNTED

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

ITEM	QUANTITY	UNIT	DESCRIPTION
1003	1	EA	MAINTENANCE OF TRAFFIC
2002	1	CY	TEST PIT EXCAVATION
5003	775	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	690	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	60	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	155	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	835	SF	5 INCH CONCRETE SIDEWALK
6003	74	SF	DETECTABLE WARNING SURFACE FOR CURB RAMP
8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8008	6	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	4	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8014	44	EA	LED SIGNAL HEAD MODULES (ANY SIZE)
8036	100	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8038	6	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8039	550	SF	REMOVE-REINSTALL DECORATIVE BRICK SIDEWALK
8040	100	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8051	745	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8053	810	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

CONTACTS

The contact persons for this project are as follows:

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Assistant District Engineer - Traffic
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Mr. Vernon Stinnett
Assistant District Engineer - Maintenance
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Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
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Mr. Ed Rodenhizer
Supervisor, Signal Operations
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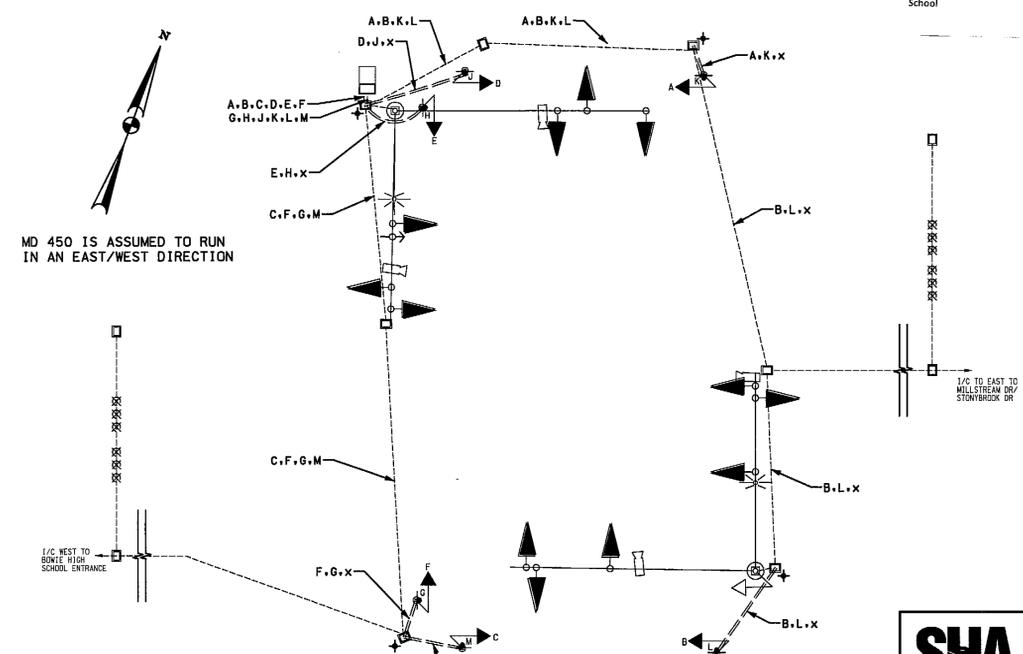
Mr. Sonny Bailey
Supervisor, Sign Shop
Phone: 410-787-7676

Mr. Mike Stocker
Supervisor, Signal Warehouse
Phone: 410-787-7668

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	17	18	19
PHASE 1 AND 5	<GR	<GR	R	<GR	<GR	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	<GG	<GG	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	<YG	<YG	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	<GG	<GG	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	<YG	<YG	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	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FLDW	FLDW	FLDW	FLDW	DW	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	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FLDW	FLDW
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/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

- A, B, C, D, E, F } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- G, H, J, K, L, M } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- x } NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- + } GROUND ROD

NOTE:
1. ALL EXISTING WIRING WILL BE UTILIZED.
2. CONNECT COPPER GROUND WIRE TO NEAREST EXISTING GROUND ROD.

TOD No: XX354-10
SHA No: PG901A55/K55
MD 450 @ Belair Drive/Entrance to Bowie High School

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

MD 450 AT BELAIR DRENTRANCE TO BOWIE HIGH SCHOOL
BOWIE, MD

GENERAL INFORMATION PLAN SHEET

SCALE	NTS	DATE	08/20/10	CONTRACT NO.	XX3545168R
DESIGNED BY	XM	COUNTY	PRINCE GEORGE'S		
DRAWN BY	XM	LOGMILE	16045012.36		
CHECKED BY	JB	TMS NO.	K253		
F.A.P. NO.		TOD NO.			
TS NO.	89D	DRAWING	- OF	SHEET NO.	3 OF 3

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9240 Rumney Road, Suite C
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PLOTTED: 8/25/10 10:25 AM AT 08/25/10
FILE: P:\09-002 TEDD\Task 34 MD 450 @ Belair Dr\Drawings\CADD\Working\PGG-P000_MD450@BelairDr.dgn

BY: xiaoyu