

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE ADDITION OF EXCLUSIVE/PERMISSIVE PHASING FOR BOTH APPROACHES ON WHITEHALL ROAD. NEW SIGNALIZED PEDESTRIAN CROSSINGS FOR THE SOUTH AND EAST LEGS OF THE INTERSECTION ARE TO BE INSTALLED TO CURRENT STANDARDS. THE INTERSECTION OF MD 213 AND WHITEHALL ROAD IS LOCATED IN CECIL COUNTY. MD 213 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE. THERE IS EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 213. THE MD 213 THRU MOVEMENTS WILL OPERATE CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR THE EAST AND WESTBOUND MOVEMENTS OF WHITEHALL ROAD. WHITEHALL ROAD THRU MOVEMENTS WILL OPERATE CONCURRENTLY.

CONCURRENT PEDESTRIAN PHASE WILL BE PROVIDED FOR THE SOUTH LEG AND AN ALTERNATE PEDESTRIAN PHASE FOR THE WEST LEG OF THE INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. XX6615185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9002	2	SF	[UPDATED] (CONT/CAB/ADD) NEMA LOAD SWITCH
9571	4	SF	[UPDATED] SHEET ALUMINUM MAST ARM /POLE MOUNTED SIGN
	4	EA	R10-3(1) (9' x 15') POLE MOUNTED

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

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
2001	1	CY	CLASS 2 EXCAVATION
5001	250	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKINGS SYMBOLS OR LEGENDS
5004	300	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	125	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	125	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	875	SF	5 INCH CONCRETE SIDEWALK
6003	56	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8001	14	EA	12 INCH LED SIGNAL HEAD SECTION
8002	1	EA	2-WIRE CENTRAL CONTROL UNIT
8004	6	EA	8 INCH LED SIGNAL HEAD SECTION
8007	2	EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE
8008	4	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	3	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8011	1	EA	CONDUIT BEND IN EXISTING FOUNDATION BASE (ANY SIZE)
8012	1	EA	EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH
8015	4	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8023	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8028	4	EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8034	200	LF	ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) TYPE T/C
8038	125	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8040	4	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	160	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	20	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8053	600	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8055	650	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8056	410	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
NEG	2	EA	FURNISH AND INSTALL STEEL POLE EXTENSION

CONTACTS

The contact persons for District #2 are as follows:

Mr. Jeffery Wertz
Assistant District Engineer - Traffic
Phone: (410) 810-3240

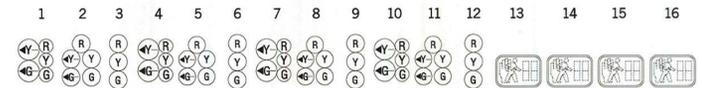
Mr. Michael Lewis
Assistant District Engineer - Maintenance
Phone: (410) 810-3250

Mr. Barry Clothier
Utility Engineer
Phone: (410) 810-3275

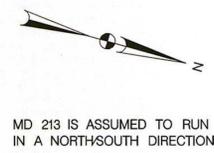
Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

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

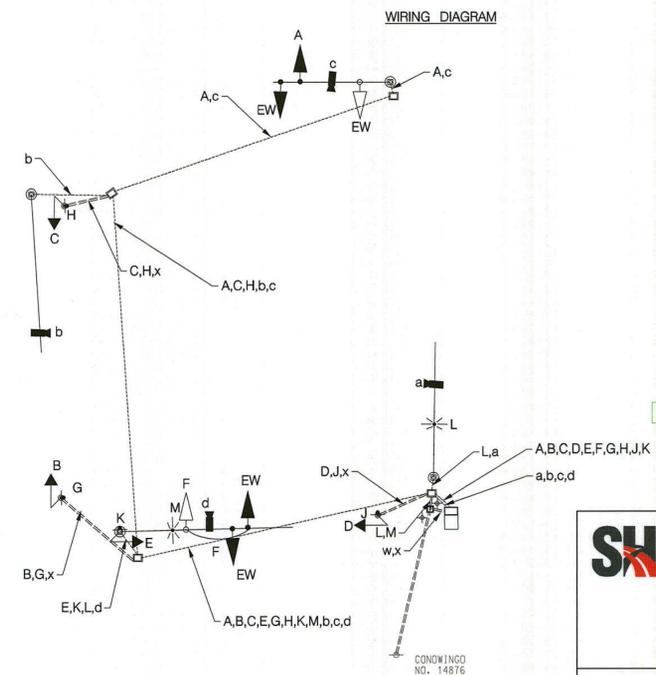
PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	R	R	R	R	R	R	R	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
PHASE 1 AND 6 CHANGE	←YY	←YY	Y	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←GG	←GG	G	R	R	R	R	R	R	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	←YG	←YG	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	WK	WK
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	FLDW	FLDW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3 AND 7	R	R	R	R	R	R	←GR	←GR	R	←GR	←GR	R	DW	DW	DW	DW
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8																
PHASE 3 AND 8	R	R	R	R	R	R	←GG	←GG	G	R	R	R	DW	DW	DW	DW
3 AND 8 CHANGE	R	R	R	R	R	R	←YY	←YY	Y	R	R	R	DW	DW	DW	DW
PHASE 4 AND 7	R	R	R	R	R	R	R	R	R	←GG	←GG	G	DW	DW	DW	DW
4 AND 7 CHANGE	R	R	R	R	R	R	R	R	R	←YG	←YG	G	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	R	R	R	←GG	←GG	G	WK	WK	DW	DW
PED CLEARANCE	R	R	R	R	R	R	R	R	R	←YY	←YY	Y	FLDW	FLDW	DW	DW
4 ALT. CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FR	FR	FL	FL	FL	FL	DARK	DARK	DARK	DARK



- WIRING KEY**
- A } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - B,C,D,E,F } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - G,H,I,J,K } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - L,M } ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) TYPE T/C
 - a,b,c } VIDEO CAMERA CABLE
 - w } 2 WIRE, ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
 - x } NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
 - + } GROUND ROD



2 GREEN LINE REVISION NO. 2 12/20/11
TEDD APPROVAL

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 213 (AUGUSTINE HERMAN HWY) AT
WHITEHALL ROAD
ELKTON, MD

GENERAL INFORMATION PLAN SHEET

SCALE	NONE	ADVERTISED DATE	10/20/11	CONTRACT NO.	XX6615185
DESIGNED BY	DM	COUNTY	CECIL		
DRAWN BY	DM	LOGMILE	07021317.85		
CHECKED BY	JB	TMS NO.	L056		
F.A.P. NO.		TOD NO.			

BAI BRUDIS & ASSOCIATES, INC.
Consulting Engineers
8240 Rumney Road, Suite C
Columbia, Maryland 21045
Phone 410-864-3607
www.brudis.com

BY: davidma