

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS)/CPS (COUNTDOWN PEDESTRIAN SIGNALS) ACROSS THE WEST LEG OF THE INTERSECTION OF US 40 (PULASKI HIGHWAY) AND WOODBRIDGE CENTER WAY/BUSINESS CENTER WAY IN HARFORD COUNTY, MARYLAND.  
US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE EXISTING INTERSECTION OPERATION WILL REMAIN THE SAME.

**TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS**

US 40 (PULASKI HIGHWAY) AND WOODBRIDGE CENTER WAY/BUSINESS CENTER WAY

1. US 40 (PULASKI HIGHWAY) AND WOODBRIDGE CENTER WAY - WEST LEG

**STREETS AT 90 DEGREES**

WAIT: "WAIT TO CROSS PULASKI AT WOODBRIDGE CENTER. WAIT" \*  
WALK: RAPID TICK

2. US 40 (PULASKI HIGHWAY) AND BUSINESS CENTER WAY - WEST LEG

**STREETS AT 90 DEGREES**

WAIT: "WAIT TO CROSS PULASKI AT BUSINESS CENTER. WAIT" \*  
WALK: RAPID TICK

\* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'  
\*\* MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

**CONTROLLER REQUIREMENTS**

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 229-2381

MR. ROBERT SNYDER  
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7631

MR. ANDRE FUTRELL  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 229-2361

MR. ED RODENHIZER  
CHIEF, SIGNAL OPERATIONS  
PHONE: (410) 787-7650

MR. MIKE PASQUARIELLO  
DISTRICT UTILITY ENGINEER  
PHONE: (410) 229-2341

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	2 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS PULASKI HWY"

**EQUIPMENT LIST "C"**

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

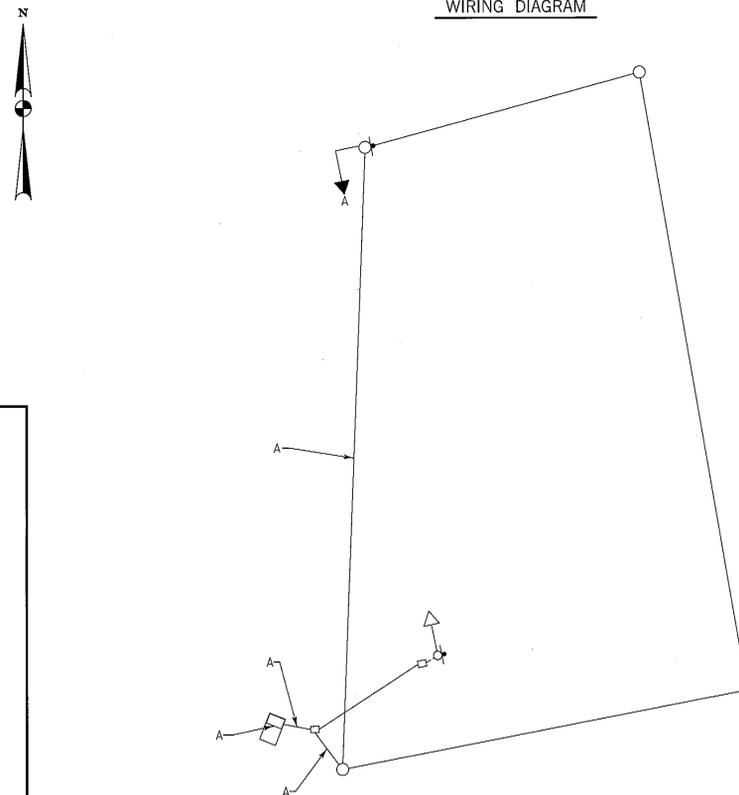
- STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
- STANDARD NO. MD-104.06-11 (MOBILE SERVICE WORK)
- STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
- STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)

**EQUIPMENT LIST "B"**

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

ITEM NO.	QUANTITY	DESCRIPTION
8002	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8008	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8016	1 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8042	2 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8057	240 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

**WIRING DIAGRAM**



**WIRING KEY**

A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
PHASE 1 + 5	←G	←G	R	R	←G	←G	R	R	R	R	R	R	R	R	R	DW	DW
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6																
PHASE 1 + 6	←G	←G	G	G	←R	←R	R	R	R	R	R	R	R	R	R	DW	DW
1 + 6 CHANGE	←Y	←Y	G	G	←R	←R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 5	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R	R	DW	DW
2 + 5 CHANGE	←R	←R	R	R	←Y	←Y	G	G	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 6	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	R	DW	DW
2 + 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R	R	DW	DW
PHASE 3	←R	←R	R	R	←R	←R	R	R	←G	←G	G	R	R	R	R	DW	DW
3 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	R	R	R	R	DW	DW
PHASE 4	←R	←R	R	R	←R	←R	R	R	R	R	R	←G	←G	G	DW	DW	
4 CHANGE	←R	←R	R	R	←R	←R	R	R	R	R	R	Y	Y	Y	DW	DW	
PHASE 4 ALT	←R	←R	R	R	←R	←R	R	R	R	R	R	←G	←G	G	WK	WK	
PED CLEARANCE	←R	←R	R	R	←R	←R	R	R	R	R	R	G	G	G	FLDW	FLDW	
4 ALT CHANGE	←R	←R	R	R	←R	←R	R	R	R	R	R	Y	Y	Y	DW	DW	
FLASHING OPERATION	←FLR	←FLR	FLY	FLY	←FLR	←FLR	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK	

TOD NO: XY125-12  
SHA NO: HA400855  
US 40, Woodbridge Way/Bus. Center  
Way/Gateway Dr./Treetop Dr./Paul  
Martin Drive

TSP-2

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 40 (PULASKI HIGHWAY) AND  
WOODBRIDGE WAY/BUSINESS CENTER WAY  
(EDGEWOOD, MARYLAND)

**GENERAL INFORMATION SHEET**

SCALE	NONE	DATE	OCTOBER 2012	CONTRACT NO.	XY1255185
DESIGNED BY	J. RASMUSSEN	COUNTY	HARFORD		
DRAWN BY	J. RASMUSSEN	LOGMILE	120040002.66		
CHECKED BY	N. LEARY	TIMS NO.	L647		
F.A.P. NO.		TOD NO.			
TS NO.	2358G	DRAWING	TSP - 2	OF	6
				SHEET NO.	2 OF 6

**WR&A**  
WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21231

BY: jrasmussen