PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 43 (WHITE MARSH BOULEVARD) AND WALTHER BOULEVARD IN BALTIMORE COUNTY, MARYLAND. MD 43 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 43 (WHITE MARSH BOULEVARD) AND WALTHER BOULEVARD - WEST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS WHITE MARSH AT WALTHER, WAIT." *

WALK: RAPID TICK

MD 43 (WHITE MARSH BOULEVARD) AND WALTHER BOULEVARD - EAST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS WHITEMARSH AT WALTHER, WAIT." *

WALK: RAPID TICK

WALTHER BOULEVARD AND MD 43 (WHITE MARSH BOULEVARD) - SOUTH LEG

INTERSECTION WITH ANGLED CROSSING

WAIT: "WAIT TO CROSS WALTHER AT WHITE MARSH. CROSSWALK ANGLES RIGHT, WAIT." **

WALK: RAPID TICK

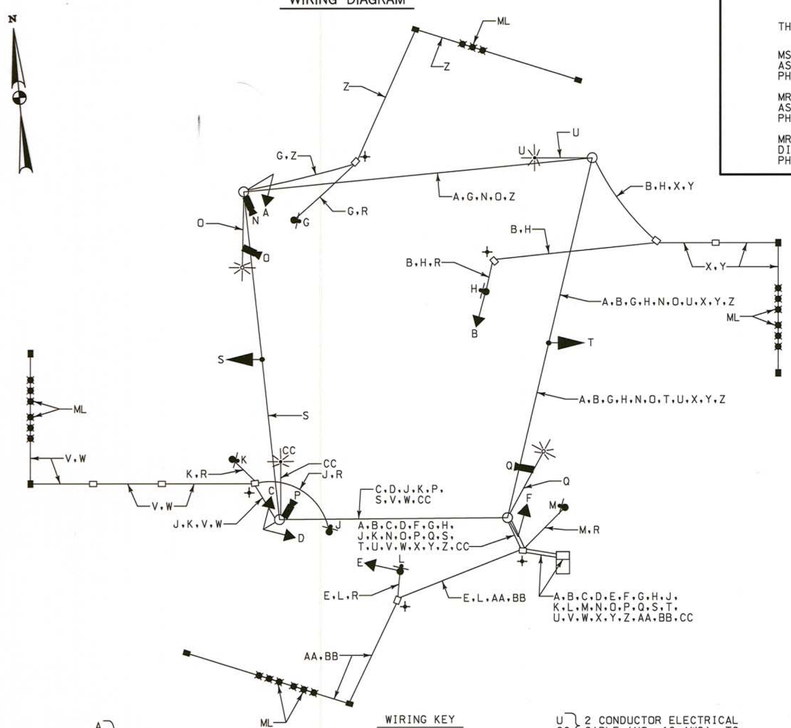
* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

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.

WIRING DIAGRAM



WIRING KEY

A, B, C, D, E, F — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

G, H, J, K, L, M — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

N, O, P, Q — VIDEO CAMERA DETECTION LEAD-IN CABLE

R — STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

S, T — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

U, CC — 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TC

V, W, X, Y, Z, AA, BB — MICROLOOP PROBE LEAD-IN

ML - MICROLOOP PROBE SET

⏚ - 3/4 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EACH	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	[1] 63 ~~63~~ S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	- 1 EACH	R3-5(L) (30 IN. x 36 IN.) - SPAN MOUNT
	- 4 EACH	R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS WHITE MARSH BLVD"
	- 2 EACH	R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS WALTHER BLVD"
	- 2 EACH	W11-2 SIGN (36 IN. x 36 IN.) - GROUND MOUNT
	- 2 EACH	W16-7p SIGN (24 IN. x 12 IN.) - GROUND MOUNT
	- 1 EACH	R1-2 SIGN (36 IN. x 36 IN. x 36 IN.) - GROUND MOUNT
	[1] - 2 EACH	D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - SPAN MOUNT

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-104.04-01 (SHOULDER WORK)
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)
STANDARD NO. MD-104.04-15 (INTERSECTION LEFT LANE, TURN BAY)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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MR. MIKE PASQUARIELLO
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MR. ROBERT SYNDER
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PHONE: (410) 787-7631

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1003	1 EACH	MAINTENANCE OF TRAFFIC
2002	5 C.Y.	TEST PIT EXCAVATION
5004	160 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6001	[2] 425 ~~410~~ L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	[2] 1430 ~~1350~~ S.F.	5 INCH CONCRETE SIDEWALK
6007	123 S.F.	DETECTABLE WARNING SURFACES
8001	1 EACH	2 WIRE CENTRAL CONTROL UNIT
8006	2 EACH	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE
8007	6 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8008	6 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8013	6 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8020	7 EACH	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT
8021	1 EACH	REM & DISPOSE MAT & EQUIP PER ASSIGN
8025	4 EACH	VIDEO DETECTION CAMERA & CABLE UP TO 500 FT
8033	250 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8035	100 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8036	51 L.F.	WOOD SIGN SUPPORTS UP TO 4 X 6
8038	[1] 63 ~~41~~ S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8040	125 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8046	8 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8050	59 EACH	12 INCH LED SIGNAL HEAD SECTION
8054	1520 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8056	1750 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8057	390 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8058	465 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	22	23	24	25	26	27
PHASE 1 AND 5	←G–	R	←G–	←G–	R	R	←G–	←G–	←G–	R	R	←R–	←R–	R	R	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6																								
PHASE 1 AND 6	←G–	G	←G–	←G–	G	G	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	R	R	W/K	W/K	DW	DW	DW	DW
1 AND 6 CHANGE	←Y–	G	←Y–	←Y–	G	G	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←R–	←R–	R	R	W/K	W/K	DW	DW	DW	DW
PHASE 2 AND 5	←R–	R	←R–	←R–	R	R	←G–	←G–	←G–	G	G	←R–	←R–	R	R	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW
2 AND 5 CHANGE	←R–	R	←R–	←R–	R	R	←Y–	←Y–	←Y–	G	G	←R–	←R–	R	R	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	←R–	G	←R–	←R–	G	G	←R–	←R–	←R–	G	G	←R–	←R–	R	R	←R–	←R–	R	R	W/K	W/K	DW	DW	DW	DW
PED CLEARANCE	←R–	G	←R–	←R–	G	G	←R–	←R–	←R–	G	G	←R–	←R–	R	R	←R–	←R–	R	R	FL/DW	FL/DW	DW	DW	DW	DW
2 AND 6 CHANGE	←R–	Y	←R–	←R–	Y	Y	←R–	←R–	←R–	Y	Y	←R–	←R–	R	R	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←G–	←G–	R	R	←G–	←G–	R	R	DW	DW	DW	DW	DW	DW
3 AND 7 CHANGE	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←Y–	←Y–	R	R	←Y–	←Y–	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 AND 8	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←G–	←G–	G	G	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW
3 AND 8 CHANGE	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←Y–	←Y–	Y	Y	←R–	←R–	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 AND 7	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←G–	←G–	G	G	DW	DW	DW	DW	DW	DW
4 AND 7 CHANGE	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←R–	←R–	R	R	←Y–	←Y–	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←R–	←R–	G	G	←R–	←R–	G	G	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←R–	←R–	Y	Y	←R–	←R–	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8 ALT	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←R–	←R–	G	G	←Y–	←Y–	G	G	DW	DW	W/K	W/K	W/K	W/K
PED CLEARANCE	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←R–	←R–	G	G	←R–	←R–	G	G	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 AND 8 ALT CHANGE	←R–	R	←R–	←R–	R	R	←R–	←R–	←R–	R	R	←R–	←R–	Y	Y	←R–	←R–	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	←FL/R	FL/Y	←FL/R	←FL/R	FL/Y	FL/Y	←FL/R	←FL/R	←FL/R	FL/Y	FL/Y	←FL/R	←FL/R	FL/R	FL/R	←FL/R	←FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

[2] REDLINE REVISION NO. 2
REVISED QUANTITIES
11/8/2011

[1] REDLINE REVISION NO. 1
REVISED QUANTITIES
6/20/2011

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

MD 43 (White Marsh Boulevard) and Walther Boulevard
White Marsh, MD

GENERAL INFORMATION SHEET

SCALE NONE ADVERTISED DATE 12/02/2010 CONTRACT NO. XX3475185

DESIGNED BY S. Bloss
DRAWN BY S. Bloss
CHECKED BY N. Leary
F.A.P. NO.
COUNTY Baltimore
LOGMILE 03004300.00
TIMS NO. K348
TOD NO.

TS NO. 2516 D | DRAWING TSP-4 OF 4 | SHEET NO. 4 OF 4

PLOTTED: November 08, 2011
FILE: N:\31669-080\CADD\Redline2\gSG-N004_Walther_RL2.dgn

BY: sbloss