PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AND STREET LIGHTING AT THE INTERSECTION OF US 40 (PULASKI HIGHWAY) AND 68TH STREET IN BALTIMORE COUNTY, MARYLAND. US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

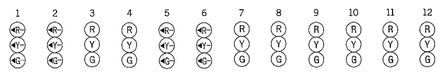
INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE VIDEO DETECTION EQUIPMENT.

PHASE CHART



PHASE 1 AND 5	←G→	←G→	R	R	←G→	←G→	R	R	R	R	R	R
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	←R→	←R→	R	R	R	R	R	R
1 AND 6 CHANGE	←Y→	←Y→	G	G	←R→	←R→	R	R	R	R	R	R
PHASE 2 AND 5	←R→	←R→	R	R	←G→	←G→	G	G	R	R	R	R
2 AND 5 CHANGE	←R→	←R→	R	R	←Y→	←Y→	G	G	R	R	R	R
PHASE 2 AND 6	←R→	←R→	G	G	←R→	←R→	G	G	R	R	R	R
2 AND 6 CHANGE	←R→	←R→	Y	Y	←R→	←R→	Y	Y	R	R	R	R
PHASE 4 AND 8	←R→	←R→	R	R	←R→	←R→	R	R	G	G	G	G
4 AND 8 CHANGE	←R→	←R→	R	R	←R→	←R→	R	R	Y	Y	Y	Y
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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
9571	126 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	– 4 EACH	D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED – MAST ARM MOUNT
	– 1 EACH	ASSOCIATED SHIELD ASSEMBLY "EAST, US 40 , RIGHT ARROW" (24 IN. x 48 IN.) – POLE MOUNT
	– 1 EACH	ASSOCIATED SHIELD ASSEMBLY "WEST, US 40 , LEFT ARROW" (36 IN. x 72 IN.) – POLE MOUNT
	– 1 EACH	ASSOCIATED SHIELD ASSEMBLY "WEST, US 40, RIGHT ARROW" (24 IN. x 48 IN.) – POLE MOUNT
	– 1 EACH	ASSOCIATED SHIELD ASSEMBLY "EAST, US 40 , LEFT ARROW" (36 IN. x 72 IN.) – POLE MOUNT
	– 2 EACH	D3-2(1) (72"x30") – GROUND 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
PHONE: (410) 229-2381

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

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

MR. ROBERT SYNDER
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
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	2 EACH	MAINTENANCE OF TRAFFIC
2001	3 C.Y.	TEST PIT EXCAVATION
8001	36 EACH	12 INCH LED SIGNAL HEAD SECTION
8005	1 EACH	CONDUIT BEND IN EXISTING FOUNDATION –ANY SIZE
8008	1 EACH	REMOVE & DISPOSE MAT & EQUIP PER ASSIGN
8010	745 L.F.	DISCONNECT, PULL-BACK & REROUTE CABLE
8012	305 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES – BORED
8014	140 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES – TRENCHED
8016	250 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8017	1 EACH	METERED SERVICE PEDESTAL EMBEDDED
8018	85 L.F.	ELECTRICAL CABLE – 1 CONDUCTOR (NO. 4 AWG)
8019	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8020	85 L.F.	ELECTRICAL CABLE – 5 CONDUCTOR (NO. 14 AWG)
8021	1855 L.F.	ELECTRICAL CABLE – 7 CONDUCTOR (NO. 14 AWG)
8022	365 L.F.	ELECTRICAL CABLE – 2 CONDUCTOR (NO. 12 AWG) TC
8028	4 EACH	FURNISH AND INSTALL VIDEO DETECTION CAMERAS AND CABLE ANY LENGTH
8029	4 EACH	FURNISH AND INSTALL MICROLOOP PROVE SETS UP TO 1000 FT. LEAD IN
8036	2 EACH	15 FT. LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE
8035	126 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8040	25 L.F.	FURNISH AND INSTALL 1" FLEXIBLE OR GALVANIZED DETECTOR SLEEVE
8055-A	2 EACH	TWIN MAST ARM POLE & 50 FOOT/70 FOOT MAST ARM
8057-A	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8058-A	65 EACH	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
NEG	26 S.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS

WIRING DIAGRAM

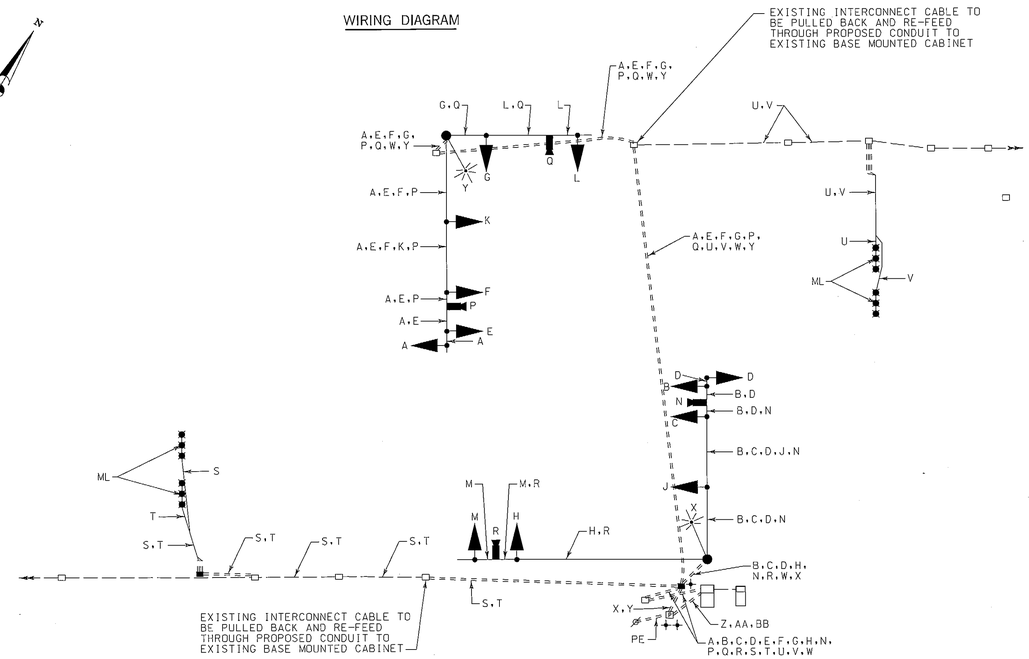
WIRING KEY

- A B C D E F G H — 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J K L M — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- N P O R — VIDEO CAMERA DETECTION LEAD-IN CABLE
- S T U V — MICROLOOP PROBE LEAD-IN
- W — STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- X Y — 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY CABLE
- Z AA BB — 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)

PE – PROPOSED UNDERGROUND ELECTRICAL SERVICE

ML – MICROLOOP PROBE SET

⏚ – 3/4 IN. X 10 FT. GROUND ROD



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

BY: lwaesche

TOD NO: XX338-19
SHA NO: BA368A54/B54
US 40 @ 68th Street

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

US 40 (PULASKI HIGHWAY) AT 68TH STREET

ROSEDALE, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE JANUARY 19, 2011 CONTRACT NO. XX3385185

DESIGNED BY L. WAESCHE
DRAWN BY L. WAESCHE
CHECKED BY N. LEARY
F.A.P. NO.
COUNTY BALTIMORE
LOGMILE 03004004.50
TIMS NO. K723
TOD NO.

TS NO. 275-H | DRAWING TSP-2 OF 2 | SHEET NO. 2 OF 2

PLOTTED: 01-20-2011
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