PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE U.S. 40 AND INGLESIDE DRIVE INTERSECTION IN BALTIMORE COUNTY. U.S. 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX PHASE FULL-TRAFFIC-ACTUATED MODE. THE EASTBOUND AND WESTBOUND U.S. 40 MOVEMENTS WILL RUN CONCURRENTLY. EXCLUSIVE LEFT TURNS WILL BE PROVIDED FOR U.S. 40 APPROACHES. THE INGLESIDE APPROACHES OPERATE IN A SPLIT PHASE. PEDESTRIAN PHASING IS PROVIDED ACROSS THE WEST, NORTH AND SOUTH LEGS OF THE INTERSECTION.

THIS INTERSECTION WILL OPERATE AS PART OF AN INTERCONNECT SYSTEM BETWEEN THE WINTERS LANE ENTRANCE TO WESTVIIEW MALL AND JOHNNYCAKE ROAD USING 12-PAIR COMMUNICATION CABLE. THE SYSTEM CABINET IS LOCATED AT JOHNNYCAKE ROAD

CONTROLLER REQUIREMENTS

INSTALL A FULLY-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH A VIDEO DETECTION SYSTEM, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, ISOLATION BOARD, TELEMETRY EQUIPMENT, FOUR CHANNEL LOOP DETECTOR AMPLIFIER AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND TELEPHONE NUMBER.

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-321-2781 OR 410-321-2885

MR. MIKE PASQUARIELLO
UTILITY ENGINEER
410-321-2843

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINT.
410-321-2764

THE POWER COMPANY REPRESENTIVE:

MR. GARY SMITH
BGE
410-859-9433

CONTACT PERSONS FOR THE OFFICE OF TRAFFIC AND SAFETY ARE AS FOLLOWS:

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
410-787-7676

MR. MIKE STOCKER
SIGNAL SHOP WAREHOUSE
410-787-7696

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
9042	1 EA.	CONTROLLER ASC II WITH TELEMETRY
9044	1 EA.	CONTROLLER CABINET - SIZE '6'
9016	3 EA.	FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT
9086	1 EA.	VIDEO INTERFACE EQUIPMENT FOR 1-4 CAMERAS
9571	60 S.F.	SHEET ALUMINUM SIGN - POLE OR MAST ARM MOUNT 2 EA - D3-2 DUAL FACE (VAR. X 16") "Ingleside Ave" 2 EA - D3-2 DUAL FACE (VAR. X 16") "Balt Nat'l Pike" 2 EA - R3-5L (30" X 36") 1 EA - R3-6L (30" X 36") 1 EA - M3-4 (24"X12")] SHIELD ASSEMBLY 1 EA - M1-4 (24"X24")] SHIELD ASSEMBLY 1 EA - M6-1 (21" X 15")] SHIELD ASSEMBLY 1 EA - M3-2 (30"X15")] SHIELD ASSEMBLY 1 EA - M1-4 (36"X36")] SHIELD ASSEMBLY 1 EA - M6-1 (30"X24")] SHIELD ASSEMBLY
9570	57 S.F.	SHEET ALUMINUM SIGN - GROUND MOUNT 5 EA - S1-1 (36" X 36") FYG 5 EA - W16-7P (24" X 12") FYG 3 EA - R4-7 (24" X 30")

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	3 EA.	MAINTENANCE OF TRAFFIC
2001	4 C.Y.	CLASS 2 EXCAVATION
2002	7 C.Y.	TEST PIT EXCAVATION
5003	900 L.F.	REMOVAL OF EXISTING PAVEMENT MARKINGS - ANY WIDTH
5005	900 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK)
6000	240 L.F.	REMOVE EXISTING W-BEAM TRAFFIC BARRIER
6000	2 EA.	REMOVE EXISTING TRAFFIC BARRIER END TREATMENT - ANY TYPE
6002	75 L.F.	DEPRESS CURB AND GUTTER
6003	35 L.F.	FURNISH AND INSTALL STANDARD TYPE 'A' CURB AND GUTTER 12"GUTTER PAN 8" DEPTH
6004	8 L.F.	FURNISH AND INSTALL CONCRETE MEDIAN 4'-0" WIDE TYPE A-1
6005	500 S.F.	FURNISH AND INSTALL 4" CONCRETE SIDEWALK
8001	20 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
8003	34 EA.	FURNISH AND INSTALL 12" RED OR GREEN LED SIGNAL HEAD
8004	15 EA.	FURNISH AND INSTALL 12" YELLOW LED SIGNAL HEAD
8014	1 EA.	CONTROL CABLE, 200 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8015	2 EA.	CONTROL CABLE, 300 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8016	1 EA.	CONTROL CABLE, 400 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8021	6 EA.	FURNISH AND INSTALL 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD
8027	2 EA.	FURNISH AND INSTALL PEDESTAL POLE - ANY SIZE
8029	1 EA.	REMOVE AND DISPOSE OF EXISTING MATERIALS AND EQUIPMENT - PER ASSIGNMENT
8038	160 L.F.	DISCONNECT, PULL BACK & REROUTE CABLE
8040	115 S.F.	DETECABLE WARNING SURFACES
8042	140 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"X4"
8044	350 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8051	100 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8052	180 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8053	50 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8056	100 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8057	25 LF.	1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8058	1 EA.	METERED SERVICE PEDESTAL
8061	70 L.F.	CABLE - 1 CONDUCTOR, NO. 4 AWG, TYPE USE, 600V
8063	5 EA.	MICROLOOP PROBE, 500' LEAD-IN CABLE
8065	3 EA.	NONINVASIVE DETECTOR, 500' LEAD IN CABLE
8067	3 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8069	57 S.F.	INSTALL GROUND MOUNT SIGN
8070	60 S.F.	INSTALL OVERHEAD SIGN
8071	4 EA.	VIDEO DETECTION CAMERA
8076	1 EA.	FURNISH AND INSTALL STEEL POLE WITH A SINGLE 38' MAST ARM
8077	1 EA.	FURNISH AND INSTALL STEEL POLE WITH A SINGLE 50' MAST ARM
8078	1 EA.	FURNISH AND INSTALL STEEL POLE WITH A SINGLE 60' MAST ARM
8081	1 EA.	FURNISH AND INSTALL STEEL POLE WITH A SINGLE 70' MAST ARM
8084	3 EA.	250 WATT HIGH FRESSURE SODIUM LAMP AND LUMINAIRE WITH PHOTOCELL
8087	1 EA.	CONNECTOR KIT - TYPE I
8088	1 EA.	CONNECTOR KIT - TYPE II
8091	7 EA.	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8099	600 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
8101	1800 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8102	2750 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8103	1000 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.) (TC)
8105	380 L.F.	SAW CUT FOR SIGNAL - LOOP DETECTOR
8106	2 EA.	PUSHBUTTON AND SIGN
8107	3 EA.	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
8112	1 EA.	INSTALL CONTROLLER AND CABINET - BASE MOUNT

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	R Y G	R Y G	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	R Y G	R Y G	R Y G ◄G-	R Y G ◄G-	R Y G	R Y G ◄G-	R Y G ◄G-	R Y G	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-	◄R- ◄Y- ◄G-
PHASE 1+5	◄G-	◄G-	◄G-	R	R	◄G-	◄G-	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 5 MAY CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																					
PHASE 1+6	◄G-	◄G-	◄G-	G	G	◄R-	◄R-	R	R	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW
1 CHANGE	◄Y-	◄Y-	◄Y-	G	G	◄R-	◄R-	R	R	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW	DW	DW
PHASE 2+5	◄R-	◄R-	◄R-	R	R	◄G-	◄G-	G	G	R	R	R	R	R	R	DW	DW	WK	WK	DW	DW
5 CHANGE	◄R-	◄R-	◄R-	R	R	◄Y-	◄Y-	G	G	R	R	R	R	R	R	DW	DW	WK	WK	DW	DW
PHASE 2+6	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLR./COUNTDOWN	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
PHASE 3	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	◄G-/G	◄G-/G	G	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	R	R	◄G-/G	◄G-/G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	R	R	◄G-/G	◄G-/G	G	DW	DW	DW	DW	WK	WK
PED CLR./COUNTDOWN	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	R	R	◄G-/G	◄G-/G	G	DW	DW	DW	DW	FL/DW	FL/DW
PH 4 ALT CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	◄FL/R-	◄FL/R-	◄FL/R-	FL/Y	FL/Y	◄FL/R-	◄FL/R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

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

U.S.40 (BALTIMORE NATIONAL PIKE) AND INGLESIDE AVENUE
WOODLAWN, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 82005 CONTRACT NO. AT7175185

DESIGNED BY MLH
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CHECKED BY D. EBY
FAP NO.

COUNTY BALTIMORE
LOGMILE 03004002.85
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