

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW HAZARD IDENTIFICATION BEACON, STREET LIGHTING, AND UPGRADING EXISTING SIGNS, SIGNALS AND PEDESTRIAN CROSSINGS AT THE INTERSECTION OF MD 41 (PERRING PARKWAY) AND MCCLEAN BLVD/HILLSWAY AVE. IN BALTIMORE COUNTY. MD 41 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 41 (PERRING PKWY) APPROACHES OPERATING CONCURRENTLY AND THE HILLSWAY AVE./MCCLEAN BLVD. APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE LEFT-TURN PHASING EXISTS FOR NORTHBOUND/SOUTHBOUND MD 41 APPROACHES AND EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING EXISTS FOR MCCLEAN BLVD/HILLSWAY AVE. APPROACHES.

ALTERNATE PEDESTRIAN PHASES EXIST ACROSS BOTH LEGS OF MD 41 AND PEDESTRIAN INDICATIONS EXIST ACROSS MCCLEAN BLVD/HILLSWAY AVE. LEGS.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER SHALL BE USED. THE DETECTOR RACK SHALL BE RETRO-FITTED WITH FOUR (4) FOUR-CHANNEL, TIME DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-30

STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)

STANDARD NO. MD-104.48-01 (INTERSECTION TURN-BAY CLOSURE)

STANDARD NO. MD-104.49 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-3514

MR. JOE McMAHON
DISTRICT UTILITIES ENGINEER
PHONE: (410) 321-3456

MR. DAVE RAMSEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-3468

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EACH	RETRO-FIT DETECTOR RACK
9002	4 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
9089	174 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 4 EACH D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - SPAN MOUNT - 1 EACH W3-3 SIGN (48 IN. x 48 IN.) - MAST ARM MOUNT - 1 EACH R1-2 SIGN (36 IN. x 36 IN. x 36 IN.) - GROUND MOUNT - 4 EACH S1-1 SIGN (36 IN. x 36 IN.) FY/G - GROUND MOUNT - 4 EACH M6-2 SIGN (21 IN. x 15 IN.) FY/G - GROUND MOUNT - 1 EACH R4-7 SIGN (24 IN. x 30 IN.) - GROUND MOUNT - 2 EACH ASSOCIATED SHIELD ASSEMBLY SIGN (24 IN. x 51 IN.) - POLE MOUNT - 2 EACH ASSOCIATED SHIELD ASSEMBLY SIGN (36 IN. x 75 IN.) - POLE MOUNT

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	60 C.Y.	CLASS 2 EXCAVATION
2002	3 C.Y.	TEST PIT EXCAVATION
5003	5 EA.	REMOVE EXISTING PAVEMENT MARKING LETTER OR ARROW
5004	760 L.F.	12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5005	130 L.F.	24 IN WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5008	990 L.F.	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH
6001	300 L.F.	FURNISH & INSTALL DEPRESSED CURB AND GUTTER
6004	1600 S.F.	4 IN. CONCRETE SIDEWALK
6005	87.5 L.F.	TRAFFIC BARRIER W BEAM
6007	1 EA.	SPECIAL TRAFFIC BARRIER W BEAM END TREATMENT
6008	1 EA.	TRAFFIC BARRIER W BEAM TRAIL END ANCHORAGE
8011	22 EA.	FURNISH & INSTALL 12 IN. VEHICLE SIGNAL HEAD SECTION
8013	2 EA.	FURNISH & INSTALL 15 FT. BRACKET ARM FOR SIGNAL STRUCTURE
8014	2 EA.	FURNISH & INSTALL 250W HPS LUMINAIRE W/PHOTOCELL
8019	6 EA.	FURNISH & INSTALL 8 IN. VEH SIGNAL HEAD SECTION
8023	1 EA.	FURNISH & INSTALL MAST ARM POLE & 60 FT. MAST ARM
8031	1 EA.	FURNISH & INSTALL PHOTOCELL
8042	1 EA.	INSTALL CONDUIT (UP TO 4 INCHES) BEND IN EXISTING FOUNDATION
8048	1 EA.	REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGN
8051	120 L.F.	FURNISH & INSTALL 3 IN. PVC SCHEDULE 80 CONDUIT-TRENCHED
8057	5 C.Y.	FURNISH & INSTALL CONCRETE FOR SIGNAL FOUNDATION
8058	103 L.F.	FURNISH & INSTALL WOOD SIGN SUPPORTS 4 IN. x 4 IN.
8060	650 L.F.	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8062	20 L.F.	FURNISH AND INSTALL 1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8072	1 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8074	58 S.F.	INSTALL GROUND MOUNTED SIGN
8075	116 S.F.	INSTALL OVERHEAD SIGN
8080	1 EA.	FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8083	100 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
8084	60 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8086	400 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
8087	550 L.F.	FURNISH & INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8088	160 L.F.	FURNISH & INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8089	110 L.F.	FURNISH & INSTALL STEEL SPAN WIRE - 1/4 INCH DIAMETER
NEG	2 EA.	FURNISH AND INSTALL PUSHBUTTON SIGN
NEG	1020 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 12 AWG)

EQUIPMENT LIST "C"

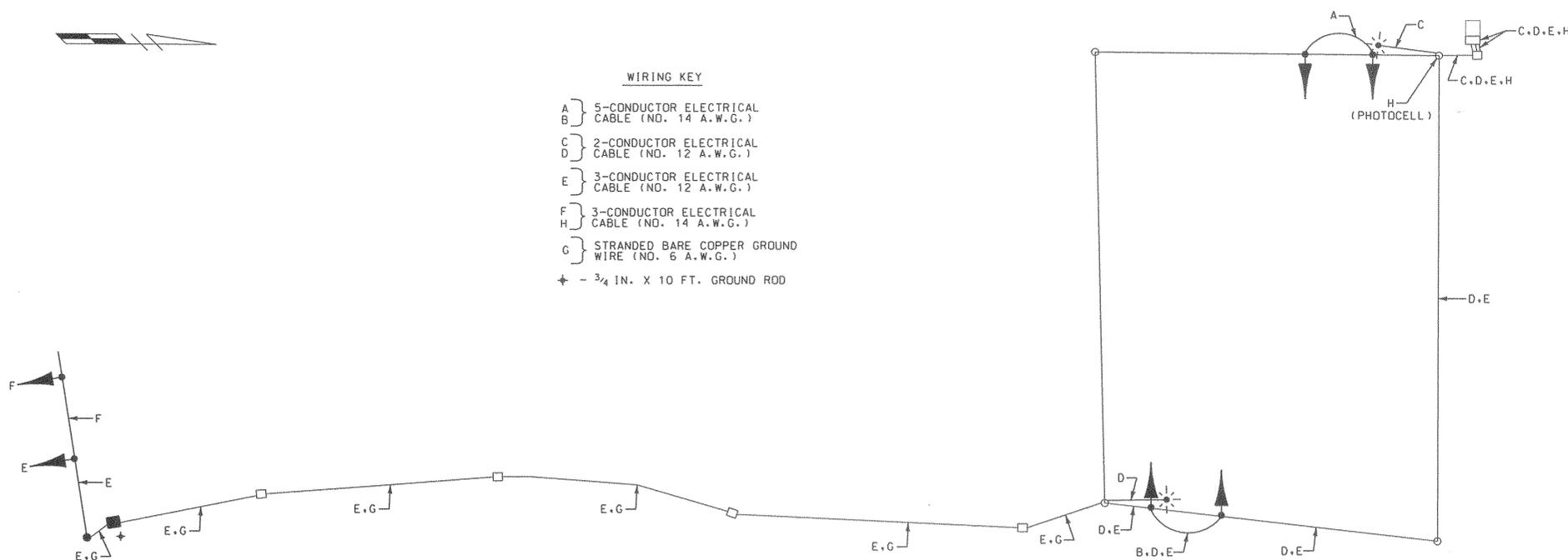
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

PHASE CHART

INTERSECTION OPERATION TO REMAIN THE SAME

WIRING DIAGRAM



WR&A
Whitman, Reardon
and Associates, LLP
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Baltimore, Maryland 21218
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 41 AND McClean Blvd/Hillsway Ave

DRAWN BY: S. BLOSS	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: M. LEARY	S.H.A. NO.	T.I.M.S. NO.	3 OF 3
SCALE: 1" = 20'	COUNTY: BALTIMORE	E643	
DATE: 11/1/01	LOG MILE:		