

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF U.S. 220 AND MD 53 WINCHESTER ROAD. U.S. 220 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE U.S. 220 APPROACHES OPERATING CONCURRENTLY AND THE MD 53/ WINCHESTER ROAD APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR SOUTHBOUND U.S. 220.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH LEG OF U.S. 220 AND PEDESTRIAN INDICATIONS ARE PROVIDED ACROSS THE MD 53 AND WINCHESTER ROAD LEGS.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS, INTERSECTION MONITOR WITH BATTERY BACKUP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

PHONE DROP

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 THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

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

STANDARD NO. MD-104.02-14 (INTERSECTION FLAGGING OPERATION)

STANDARD NO. MD-104.02-02 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. GEORGE H. SMALL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 729-8444

MR. ROBERT ROWAN
DISTRICT UTILITY ENGINEER
PHONE: (301) 729-8420

MR. GEORGE FRANKENBERRY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 729-8457

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE	QUANTITY	DESCRIPTION
963010	1 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
971017	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH INTERSECTION MONITOR HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
973023	107 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 1 EACH R10-12 SIGN (36 IN. x 42 IN.) - MAST ARM MOUNT - 2 EACH D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - MAST ARM MOUNT - 1 EACH R3-2 SIGN (30 IN. x 30 IN.) - MAST ARM MOUNT - 1 EACH R3-1 SIGN (30 IN. x 30 IN.) - MAST ARM MOUNT - 1 EACH R5-1 SIGN (36 IN. x 36 IN.) - MAST ARM MOUNT - 1 EACH R10-11b SIGN (24 IN. x 24 IN.) - MAST ARM MOUNT - 1 EACH W6-2 MODIFIED (42 IN. x 42 IN.) - MAST ARM MOUNT - 1 EACH R1-2 SIGN (36 IN. x 36 IN. x 36 IN.) - POLE MOUNT - 1 EACH ASSOCIATED SHIELD ASSEMBLY (48 IN. x 75 IN.) - POLE MOUNT
900000	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

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.

EQUIPMENT LIST "B"

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

CATEGORY CODE	QUANTITY	DESCRIPTION
120500	LS	MAINTENANCE OF TRAFFIC
203030	6 C.Y.	TEST PIT EXCAVATION
585620	310 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585624	75 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
800000	LUMP SUM	REMOVE AND DISPOSE EXISTING MATERIAL AND EQUIPMENT
800000	1 EACH	16.5 FT. STEEL POLE WITH A 38 FT. MAST ARM
801004	15 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802501	325 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805011	10 L.F.	1 INCH ELECTRICAL CONDUIT- GALVANIZED SLEEVE
805115	35 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- BORED
805125	80 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805135	40 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805140	55 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805150	105 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
805155	140 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
805160	20 L.F.	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
807400	1 EACH	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
810010	45 L.F.	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
810550	3 EACH	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE
811001	6 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	107 S.F.	INSTALL OVERHEAD SIGN
816001	3 EACH	VIDEO DETECTION CAMERA
816005	2 EACH	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
816010	1 EACH	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
818004	2 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
818021	1 EACH	STEEL POLE WITH A TWIN 50 FOOT MAST ARM
818050	1 EACH	STEEL POLE WITH A TWIN 50 FOOT AND 60 FOOT MAST ARMS.
837001	6 EACH	GROUND ROD-3/4 INCH DIAMETER x 10 FOOT LENGTH
860270	3 EACH	8 INCH VEHICULAR TRAFFIC SIGNAL AHEAD SECTION
860272	28 EACH	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860278	8 EACH	12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT
860282	4 EACH	12 INCH PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT
860292	5 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	350 L.F.	ELECTRICAL CABLE- 2 CONDUCTOR (NO. 14 AWG)
861107	1050 L.F.	ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 AWG)
861108	1200 L.F.	ELECTRICAL CABLE- 7 CONDUCTOR (NO. 14 AWG)
862102	560 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
865001	2 EACH	PUSHBUTTON AND SIGN
871202	1 EACH	INSTALL CONTROLLER AND CABINET- BASE MOUNT

TSP-3

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
US 220 @ MD 53/WINCHESTER ROAD
(CRESAPTOWN)



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CHECKED BY: N. LEARY	S.H.A. NO. ALLEGANY	T.I.M.S. NO. 6074	
SCALE: NONE	COUNTY: 01022014.03	LOG MILE:	
DATE: 7/27/2004			