PROJECT DESCRIPTION

THIS PORTION OF THE PROJECT INVOLVES THE UPGRADING OF AN EXISTING TRAFFIC SIGNAL AT MD 924 (MAIN STREET) AND FULFORD AVE. / U.S. RTE. 1 BUSINESS IN HARFORD COUNTY. THE SIGNAL WILL BE UPGRADED IN ONE PHASE. BLACK FACED LED SIGNAL HEADS WILL REPLACE THE EXISTING SIGNAL HEADS. APS PUSH BUTTONS AND SIGNS WILL BE ADDED TO THE SIGNAL. MD 924 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.
INTERSECTION OPERATION

1. NORMAL OPERATION
THE INTERSECTION WILL OPERATE IN A TWO PHASE, FULLY TRAFFIC ACTUATED MODE.

CONTROLLER REQUIREMENTS:

AN EXISTING FULLY - TRAFFIC - ACTUATED - EIGHT- PHASE TRAFFIC SIGNAL CONTROLLER IN A POLE - MOUNTED SYSTEM READY CABINET WILL REMAIN AT THIS INTERSECTION.

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR:

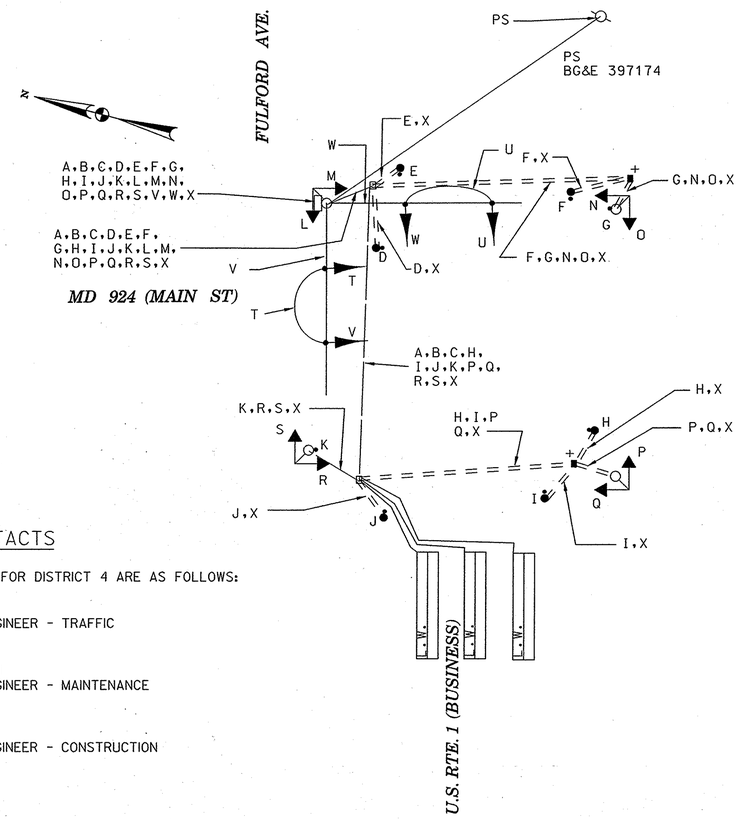
CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR:

CATEGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
120500	104	L.S.	MAINTENANCE OF TRAFFIC
203030	205	10 C.Y.	TEST PIT EXCAVATION
585621	SP-555	285 L.F.	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK)
585624	SP-555	70 L.F.	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)
801004	801	6.65 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
802501	810	175 L.F.	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
861104	810	250 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
861105	810	285 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG).
861107	810	750 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG).
861108	810	475 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG).
811001	811	2 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE.
805135	805	20 L.F.	FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT GALVANIZED SLEEVE.
805135	805	25 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED.
805155	805	130 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - SLOTTED.
862101	810	1400 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG).
862102	815	500 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR).
800000		1 EA.	FURNISH AND INSTALL TWO WIRE CONTROL UNIT.
800000		8 EA.	FURNISH AND INSTALL AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION AND SIGN.
860272	814	28 EA.	FURNISH AND INSTALL 12 IN. L.E.D. VEHICULAR TRAFFIC SIGNAL HEAD SECTION BLACK FACED
800000		8 EA.	FURNISH AND INSTALL 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD (PAINTED BLACK)
800000		L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL / EQUIPMENT

WIRING DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 2	G	G	R	R	W	W	W	W	DW	DW	DW	DW
PED CLEAR	G	G	R	R	FL/DW*	FL/DW*	FL/DW*	FL/DW*	DW	DW	DW	DW
PHASE 2 CHANGE	Y	Y	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 CHANGE	R	R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	G	G	DW	DW	DW	DW	W	W	W	W
PED CLEAR	R	R	G	G	DW	DW	DW	DW	FL/DW*	FL/DW*	FL/DW*	FL/DW*
PHASE 4 ALT CHANGE	R	R	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK



WIRING KEY

A,B,C }	2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
D-K }	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
L-U }	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
V,W }	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
L.W. }	LOOP WIRE
X }	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. DONALD SCHAEFER
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 321-2821

MR. MIKE PASQUARIELLO
UTILITY ENGINEER
PHONE: (410) 321-2841

MR. EDWARD RODENHIZER
MANAGER, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652

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

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

MD 924 (MAIN ST.) STREETSCAPE IMPROVEMENTS FROM MD 22 (FULFORD AVE.) TO GORDON ST. (DESIGN BUILD)

MD 924 (MAIN ST. @ US 1 /FULFORD AVE.)

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®
72 Loveton Circle Baltimore, Maryland 21152-0949

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR
ORIGINAL ON FILE

REVISIONS
(N) 9-1-2007 HA1865184 RECONSTRUCT SIGNAL DUE TO GEOM. CHANGES — CGM
(M) 12-1997 REPLACE INTERCONNECT CABLE — DMP MMN DD BK

SCALE NO SCALE DATE JUNE 1890 CONTRACT NO. AW-537-451-085
DESIGNED BY
DRAWN BY H. KILAN
CHECKED BY
F.A.P. NO.
COUNTY HARFORD
LOGMILE 12092405.54
T.I.M.S. NO. G-985
TOD NO. TS-1473N
DRAWING NO. TS - 02 OF 14
SHEET NO. 3 OF 15

PLOTTED: 10/3/2007 4:42:27 PM
FILE: Q:\SMD\305583_MD924_PL\CADD\pSGI-P001_MD924.dgn

BY: MUNZ