

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 65 (SHARPSBURG PIKE) AND THE I-70 WEST ON RAMP IN WASHINGTON COUNTY. IT IS ASSUMED THAT MD 65 RUNS IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA TWO-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE LEFT TURN PHASE FOR NORTHBOUND MD 65. THE NEW SIGNAL WILL BE ADDED INTO THE EXISTING INTERCONNECT SYSTEM ALONG MD 65.

CONTROLLER REQUIREMENTS

A FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH A VIDEO DETECTION SYSTEM, DETECTOR RACK, LOOP DETECTOR AMPLIFIERS AND TELEMETRY HOUSED IN A NEMA SIZE '6' BASE MOUNTED CABINET.

SPECIAL NOTES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM GEOMETRICS PRIOR TO PLACING SIGNAL EQUIPMENT.

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 TELEPHONE NUMBER.

CONTACT PERSONS FOR DISTRICT 6 ARE AS FOLLOWS:

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

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

MR. JOHN TRUE
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
(301) 729-8411

MR. LARRY HUMBERTSON
UTILITY ENGINEER
(301) 729-8439

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

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

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
(410) 787-7630

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

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

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9016	4 CHANNEL DETECTOR AMPLIFIER	EA	1
9042	CONTROLLER ASC II WITH TELEMETRY	EA	1
9044	CONTROLLER CABINET, SIZE 6	EA	1
9086	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1
9570	SHEET ALUMINUM SIGNS - GROUND MOUNT	SF	31
	1 EACH R4-7 (24" X 30")		
	2 EACH W3-3 (36" X 36")		
	2 EACH D95-25 (24" X 24")		
9571	SHEET ALUMINUM SIGNS - MAST ARM MOUNT	SF	8
	1 EACH R3-1 (24" X 24")		
	1 EACH R3-3 (24" X 24")		

EQUIPMENT LIST "B"

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

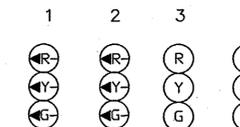
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	2
2002	TEST PIT EXCAVATION	CY	5
5005	F&I 24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	40
8001	F&I 12" LED SIGNAL HEAD SECTION	EA	12
8018	F&I MAST ARM POLE & 70 FT MAST ARM ANY 'T' DIMENSION	EA	1
8020	F&I MICROLOOP PROBE (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT.	EA	2
8022	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT (PER ASSIGNMENT)	EA	1

EQUIPMENT LIST "B" CONTINUED

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

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
8026	F&I VIDEO DETECTION CAMERA & CABLE UP TO 500 FT.	EA	1
8027	F&I 1 INCH DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT	LF	8
8029	F&I 12 - PAIR COMMUNICATION CABLE JELLYFILLED	LF	485
8032	DISCONNECT, PULL-BACK & REROUTE CABLES	LF	400
8035	F&I SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED	LF	30
8036	F&I SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED	LF	365
8037	F&I WOOD SIGN SUPPORTS UP TO 4 X 6	LF	55
8039	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	SF	39
8041	F&I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	95
8043	F&I METERED SERVICE PEDESTAL - EMBEDDED	EA	1
8045	F&I ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN	LF	30
8047	F&I ELECTRICAL HANDHOLE	EA	1
8056	F&I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	300
8060	F&I SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	50
8065	F&I INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

PHASING CHART

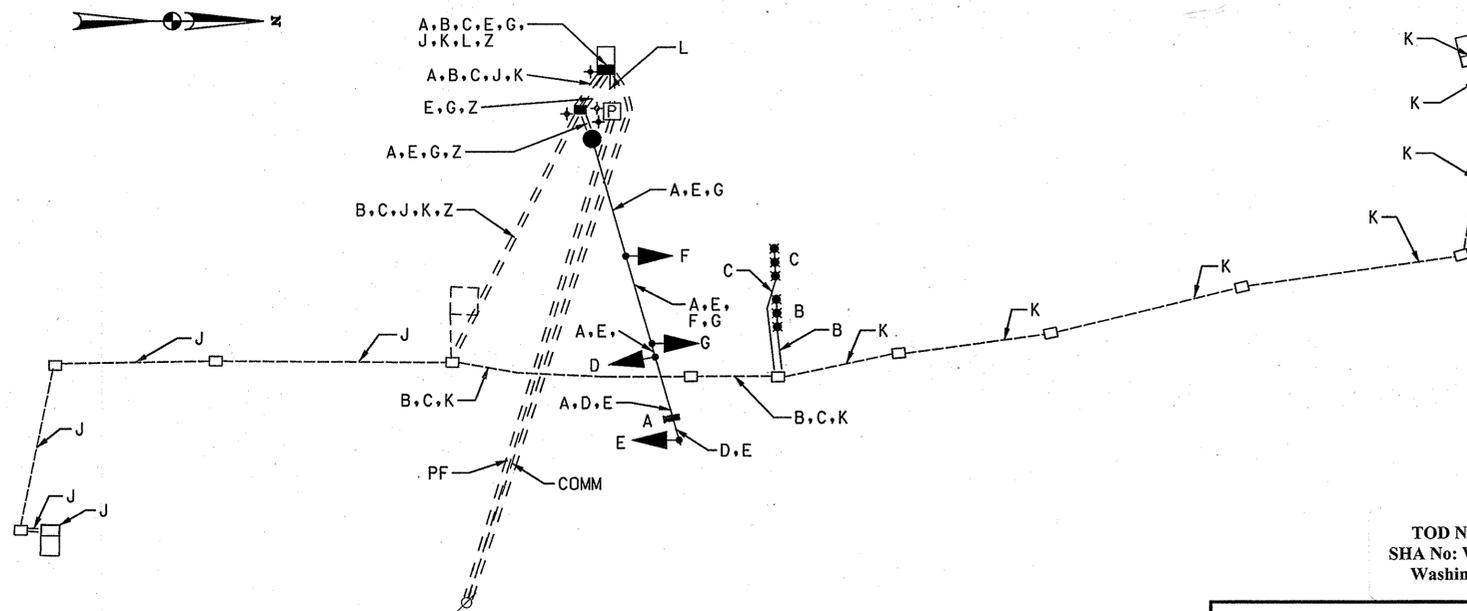


	1	2	3	4
PHASE 1	← G	← G	R	R
PHASE 1 CHANGE	← Y	← Y	R	R
PHASE 2	← R	← R	G	G
PHASE 2 CHANGE	← R	← R	Y	Y
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y

EQUIPMENT LIST "C"

ALL UNUSED EQUIPMENT AND MATERIAL REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



WIRING KEY

A	CAMERA CONTROL CABLE- 250 FT. LENGTH	L	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G. (3 RUNS)
B,C	MICRO-LOOP PROBE 500 FT. LEAD-IN	Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
D,E, F,G	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)	PF	UNDERGROUND POWER SERVICE TO BE INSTALLED BY ALLEGHANY POWER
J	INSTALL NEW INTERCONNECT CABLE - 12 PAIR JELLY-FILLED (NO.19 A.W.G.)	COMM	TELEPHONE CABLE (BY VERIZON)
K	EXISTING INTERCONNECT	+	PROPOSED GROUND ROD

TOD No: AT783-04
SHA No: WA319A51/B51
Washington County

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 65 (SHARPSBURG PIKE) AND I-70 ON RAMP

GENERAL INFORMATION SHEET

SCALE 1" = 20'	DATE 04/2006	CONTRACT NO. AT7835185
DESIGNED BY TC	COUNTY WASHINGTON	
DRAWN BY TC	LOGMILE 21006510.67	
CHECKED BY DAE	TMS NO. H114	
FAP NO.	TOD NO.	
TS NO. 4447	DRAWING - OF -	SHEET NO. 2 OF 2

R&K
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