PROJECT DESCRIPTION

I. GENERAL

This project involves the replacement of existing detection at the intersection of MD 611 and MD 707 in Worcester County. Video detection will be placed into operation. MD 611 is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

1. The intersection will operate in a NEMA 6-Phase, full-traffic actuated mode, with the MD 611 approaches running concurrently and the MD 707 approaches running concurrently.

2. Exclusive/Permissive left turn phases exist at the intersection for northbound and southbound MD 611.

NOTES

1. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
2. The Contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
3. All existing traffic signal equipment removed shall become the property of the Contractor upon completion of the signal.
4. The Contractor shall be responsible for identifying and labeling each existing cable utilizing the conduit between the signal cabinet and the nearest handhole and removing from all conduits, handholes, and the cabinet any unused cables prior to the installation of new cables. The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.

CONTACTS

DISTRICT (ONE)

MR. DONNIE L. DREWER
DISTRICT ENGINEER
410-677-4006

MS. KENNETH CIMINO
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-677-4040

MR. BRUCE W. POOLE
UTILITY ENGINEER
410-677-4082

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ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-677-4020

MR. WAYNE WEICHMAN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-677-4010

OFFICE OF TRAFFIC AND SAFETY

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

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

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
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MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670

MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

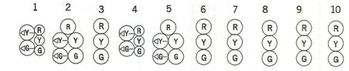
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM CODE	DESCRIPTION	UNITS	QUANTITY
9086	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1
9000	40 FOOT LIGHT STRUCTURE - 20 FOOT BRACKET ARM	EA	1

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

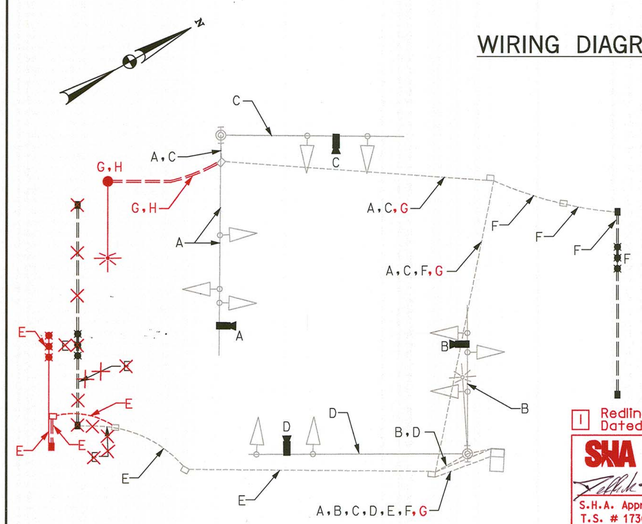
ITEM CODE	DESCRIPTION	UNITS	QUANTITY
1003	MAINTENANCE OF TRAFFIC (PER ASSIGNMENT)	EA	1
8023	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000'	EA	~~2~~ 1
8024	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
8028	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH	EA	4
8034	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	~~125~~ 75
8044	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	4
8015	INSTALL STEEL STRAIN OR MAST ARM WITH SINGLE OR TWIN MAST ARM	EA	1
8022	MICROLOOP PROBE (ANY LENGTH) LEAD IN CABLE UP TO 1000'	EA	1
8035	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED	LF	10
8057	SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	20
8055	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	265
8040	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	55
8036	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	55
8029	1" DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT	LF	20

PHASE CHART



	1	2	3	4	5	6	7	8	9	10
PHASE 1 AND 5	←G/R	←G/R	R	←G/R	←G/R	R	R	R	R	R
PHASE 1 AND 5 MAY CHANGE TO PHASE 1 AND 6, 2 AND 5, OR 2 AND 6										
PHASE 1 AND 6	←G/G	←G/G	G	R	R	R	R	R	R	R
1 AND 6 CHANGE	←Y/G	←Y/G	G	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	←G/G	←G/G	G	R	R	R	R
2 AND 5 CHANGE	R	R	R	←Y/G	←Y/G	G	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL /Y	FL /Y	FL /Y	FL /Y	FL /Y	FL /Y	FL /R	FL /R	FL /R	FL /R

WIRING DIAGRAM



KEY

A, B C, D	TERRA VIDEO DETECTION CABLE
~~X~~, F	NON-INVASIVE MICROLOOP PROBE CABLE LEAD-IN
E	INVASIVE MICROLOOP PROBE CABLE LEAD-IN
G	2/C NO. 12 AWG CABLE
H	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

1 Redline Revision
Dated June 10, 2011

MDOT - SHA
O.O.T.S.
S.H.A. Approval Date
T.S. # 1730C T.I.M.S. # J798

SABRA, WANG & ASSOCIATES, INC.
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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 611 (STEPHEN DECATUR HWY) AT MD 707 (OLD BRIDGE RD)
WEST OCEAN CITY, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S ADVERTISED DATE 112010 CONTRACT NO. XX3535168

DESIGNED BY K.HODGES
DRAWN BY K.HODGES
CHECKED BY A. GRIFFIN 6/11
F.A.P. NO.

COUNTY WORCESTER
LOGMILE 23061108.16
TIMS NO. J798
TOD NO.

TS NO. 1730C | DRAWING pSG OF N001 | SHEET NO. 2 OF 2

PLOTTED: Friday, June 10, 2011 AT 04:20 PM
FILE: R:\2008\73 SHA BCS 2008-05A_TEDD DESIGN_STV_JV__$SM\Task 60 MD 707A and MD 611 Signal Detector Replacement\Dgn\Redline\pSG-N001_J798.dgn

BY: Jweaver -