

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 40 (PULASKI HIGHWAY) AND MELBOURNE BLVD. IN CECIL COUNTY. THE MODIFICATION WILL ADD VIDEO DETECTION EQUIPMENT, UPGRADE PASSAGE DETECTION AND ADD NONINVASIVE DETECTION. US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA 5 PHASE, FULLY-ACTUATED MODE WITH PROTECTED/PERMISSIVE LEFT TURN PHASING ON THE EASTBOUND US 40 APPROACH. MELBOURNE AND DRIVEWAY OPERATE CONCURRENTLY. A VIDEO DETECTION INTERFACE SHALL BE INSTALLED INTO THE CABINET BY SHA FORCES.

CONTACTS

DISTRICT (DISTRICT 2)

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DISTRICT ENGINEER
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ASSISTANT DISTRICT ENGINEER - TRAFFIC
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MR. MIKE LEWIS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
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410-787-7630

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MR. MICHAEL STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7696

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

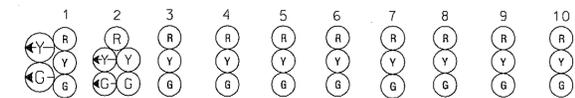
ITEM NO.	QUANTITY	DESCRIPTION
9016	1 EA	[UPDATED] 4 CHANNEL DETECTOR AMPLIFIER
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8022	4 EA	NONINVASIVE DETECTOR (ANY LENGTH) LEAD-IN CABLE UP TO 1000'
8023	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8028	5 EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8036	110 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8038	150 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8046	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

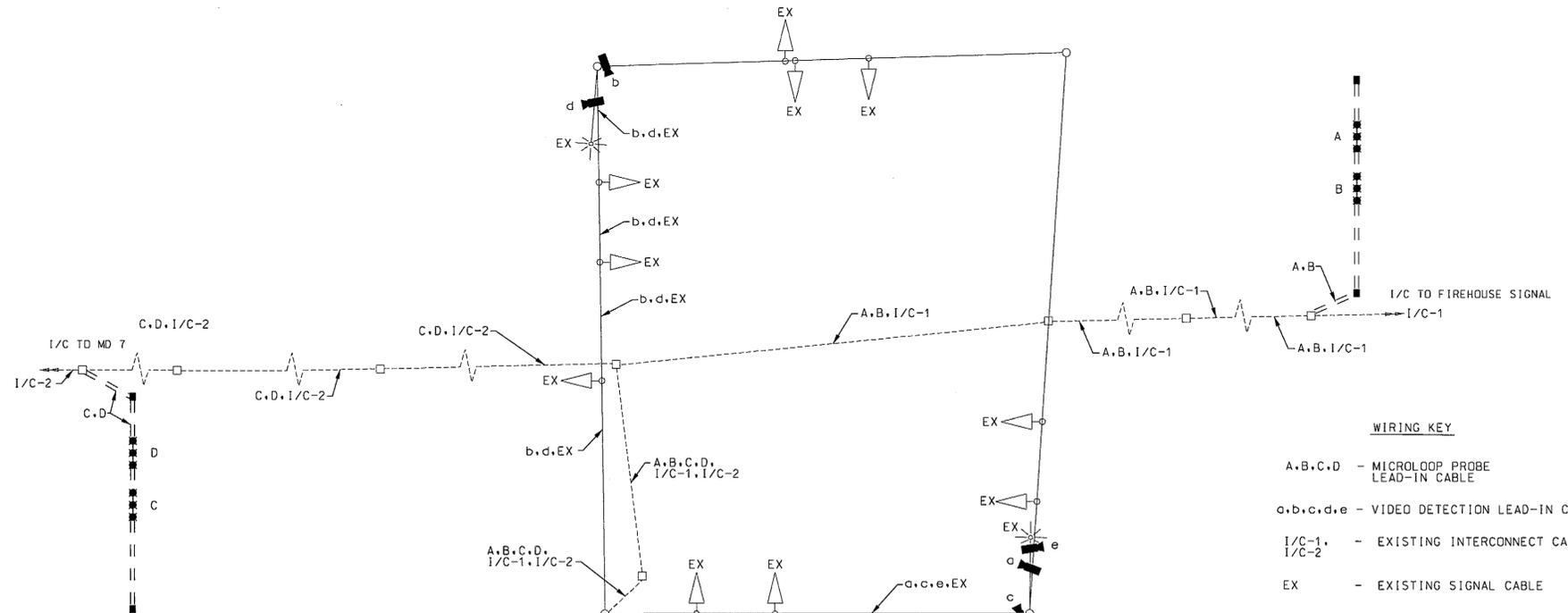
C. RETURN ALL REMOVED VIDEO CAMERAS TO SHA SIGNAL SHOP. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.

PHASE CHART



PHASE I & 6	←G-/G	←G-/G	G	R	R	R	R	R	R	R	R	R
I CHANGE	←G-/Y	←G-/Y	G	R	R	G	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	G	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R						

WIRING DIAGRAM



WIRING KEY

- A, B, C, D - MICROLOOP PROBE LEAD-IN CABLE
- a, b, c, d, e - VIDEO DETECTION LEAD-IN CABLE
- I/C-1, I/C-2 - EXISTING INTERCONNECT CABLE
- EX - EXISTING SIGNAL CABLE

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 40 (PULASKI HWY) AT MELBOURNE BLVD
ELKTON, MD

PARSONS BRINCKERHOFF
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GENERAL INFORMATION SHEET

SCALE N.T.S. DATE 03-07-2012 CONTRACT NO. XX6815185

DESIGNED BY MAW COUNTY CECIL
DRAWN BY MAW LOGMILE 07004016.42
CHECKED BY MF TMS NO. L198
F.A.P. NO. _____ TOD NO. _____

TS NO. 23780-GI DRAWING **SG-02** OF 02 SHEET NO. 08 OF 08

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BY: wagnerm