

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 197 (LAUREL-BOWIE ROAD) AND RACE TRACK ROAD IN PRINCE GEORGE'S COUNTY, MARYLAND. MODIFICATIONS INCLUDE THE REPLACEMENT OF EXISTING IN-PAVEMENT PRESENCE LOOP DETECTORS WITH VIDEO DETECTION AND THE REPLACEMENT OF EXISTING IN-PAVEMENT PASSAGE LOOP DETECTORS WITH NON-INVASIVE MICROLOOP PROBES. MD 197 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 197 APPROACHES OPERATING CONCURRENTLY AND THE RACE TRACK ROAD APPROACHES OPERATING CONCURRENTLY. EXCLUSIVE LEFT-TURN PHASING IS PROVIDED FOR THE NORTHBOUND AND SOUTHBOUND MD 197 APPROACHES. PRE-EMPTION PHASING IS PROVIDED FOR SOUTHBOUND MD 197 AND FOR WESTBOUND RACE TRACK ROAD.

CONTROLLER REQUIREMENTS

THE EXISTING NEMA SIZE '6' BASE MOUNTED CABINET AND EIGHT-PHASE CONTROLLER AND ALL ASSOCIATED EQUIPMENT WILL CONTINUE TO BE USED. VIDEO DETECTION INTERFACE EQUIPMENT WILL BE INSTALLED IN THE CABINET.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. FELECIA MURPHY
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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MR. ED RODENHIZER
SUPERVISOR - SIGNAL SHOP
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MR. VICTOR GRAFTON
ASSISTANT DISTRICT ENGINEER - UTILITY
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MR. RICHARD L. DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9086	1	EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
5001	50	LF	F/1 24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5002	750	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
8006	1	EA	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT
8007	4	EA	VIDEO DETECTION CAMERA AND CABLE
8012	350	LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - SLOTTED
8018	8	EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
8119	8	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

EQUIPMENT LIST "C"

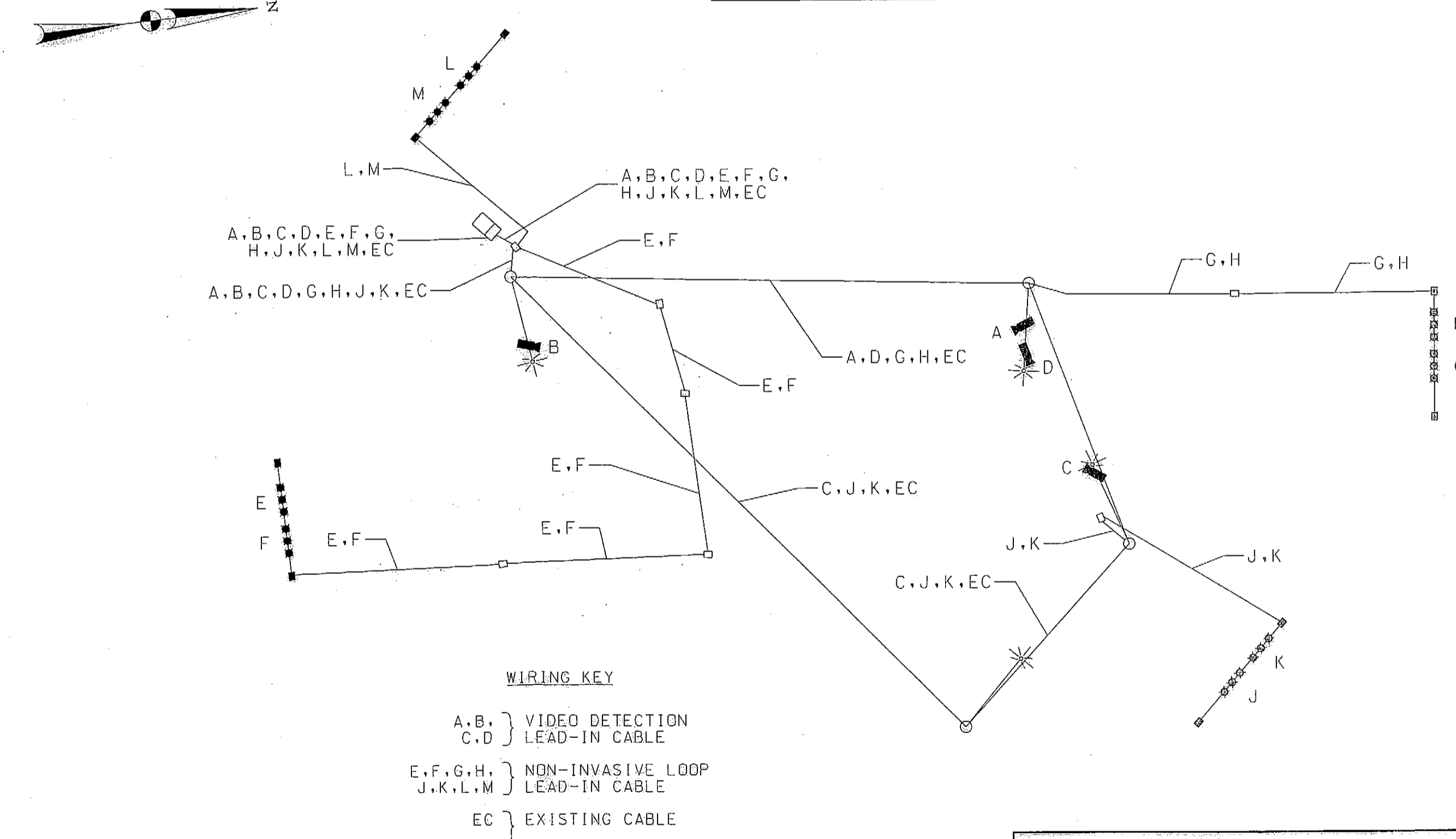
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

NONE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 + 5	←G	←G	R	R	←G	R	←G	R	R	R	R	R	R	R	R
I + 5 CHANGE	I + 5 MAY CHANGE TO PHASE I + 6, PHASE 2 + 5, OR PHASE 2 + 6														
PHASE 1 + 6	←G	←G	G	G	←R	R	←R	R	R	R	R	R	R	R	R
I + 6 CHANGE	←Y	←Y	C	C	←R	R	←R	R	R	R	R	R	R	R	R
PHASE 2 + 5	←R	←R	R	R	←G	G	←G	G	G	R	R	R	R	R	R
2 + 5 CHANGE	←R	←R	R	R	←Y	G	←Y	G	G	R	R	R	R	R	R
PHASE 2 + 6	←R	←R	G	G	←R	G	←R	G	G	R	R	R	R	R	R
2 + 6 CHANGE	←R	←R	Y	Y	←R	Y	←R	Y	Y	R	R	R	R	R	R
PHASE 4 + 8	←R	←R	R	R	←R	R	←R	R	R	G	G	G	G	G	G
4 + 8 CHANGE	←R	←R	R	R	←R	R	←R	R	R	Y	Y	Y	Y	Y	Y
PRE-EMPT 2 + 5	←R	←R	R	R	←G	G	←G	G	G	R	R	R	R	R	R
PRE-EMPT 2 + 5 CHANGE	←R	←R	R	R	←Y	Y	←Y	Y	Y	R	R	R	R	R	R
PRE-EMPT 8	←R	←R	R	R	←R	R	←R	R	R	R	R	R	G	G	G
PRE-EMPT 8 CHANGE	←R	←R	R	R	←R	R	←R	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/Y	FL/←R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



TOD NO: XX355-17
SHA NO: PG940K54
MD 197; Rustic Hill Road to Old Laurel
Bowie Road

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

MD 197 (LAUREL-BOWIE ROAD) AT RACE TRACK ROAD BOWIE, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE APRIL 6, 2011 CONTRACT NO. XX355168

DESIGNED BY BSH COUNTY PRINCE GEORGE'S
DRAWN BY MER LOGMILE 16019705.76
CHECKED BY MAS T.I.M.S. NO. K473
F.A.P. NO. T.O.D. NO.

T.S. NO. 3110CGI SG-02 OF SG-02 SHEET NO. 2 OF 2

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