PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES REMOVING THE EXISITNG LOOP DETECTORS AND INSTALLING VIDEO DETECTION FOR ALL APPROACHES AT THE INTERSECTION OF MARTIN LUTHER KING JR HWY AND LOTTSFORD VISTA RD / BUSINESS PKWY. ALL INVASIVE ADVANCED DETECTION WILL BE REPLACED WITH NON-INVASIVE MICROLOOP PROBES. MD 704 (MARTIN LUTHER KING JR HWY) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

1. THE INTERSECTION SHALL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, SEMI-ACTUATED MODE, WITH THE MD 704 (MARTIN LUTHER KING JR HWY) APPROACHES RUNNING CONCURRENTLY. THE EASTBOUND AND WESTBOUND LEFT TURN MOVEMENTS RUN AS A EXCLUSIVE-PERMISSIVE LEFT TURN PHASE. LOTTSFORD VISTA RD AND BUSINEES PKWY WILL CONTINUE TO OPERATE IN SPLIT PHASE FOR THE NORTHBOUND AND SOUTHBOUND APPROACHES.

THE CONTACT PERSONS FOR DISTRICT #3 (PRINCE GEORGES COUNTY) ARE AS FOLLOWS:

DISTRICT (DISTRICT 3 - PRINCE GEORGE'S)

MR. BRIAN YOUNG
DISTRICT ENGINEER
301-513-7311

MR. VENU NEMANI
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7404

MR. VICTOR GRAFTON
DISTRICT UTILITY ENGINEER
301-513-7350

MR. KEVIN NOWAK & MR. DUANE BERNARD
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7336

MR. TOM FOUNTAIN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

OFFICE OF TRAFFIC AND SAFETY

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS
410-787-7630

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

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS SECTION
410-787-7670

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

UTILITY CONTACT

PEPCO
MR. RICHARD CHILCOAT
(301)967-5820
8300 OLD MARLBORO PIKE
UPPER MARLBORO, MD 20772-0772

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

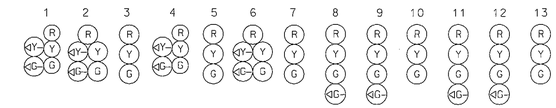
CATEGORY CODE	QTY	UNITS	DESCRIPTION

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

CATEGORY CODE	QTY	UNITS	DESCRIPTION
585625	180	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
800000	5	EA	IP-BASED VIDEO DETECTION CAMERA AND CABLE
800000	1	LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
800000	1,550	LF	DISCONNECT, PULL-BACK, AND RE-ROUTE EXISTING CABLES
805135	25	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805150	165	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
810605	8	EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	6	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

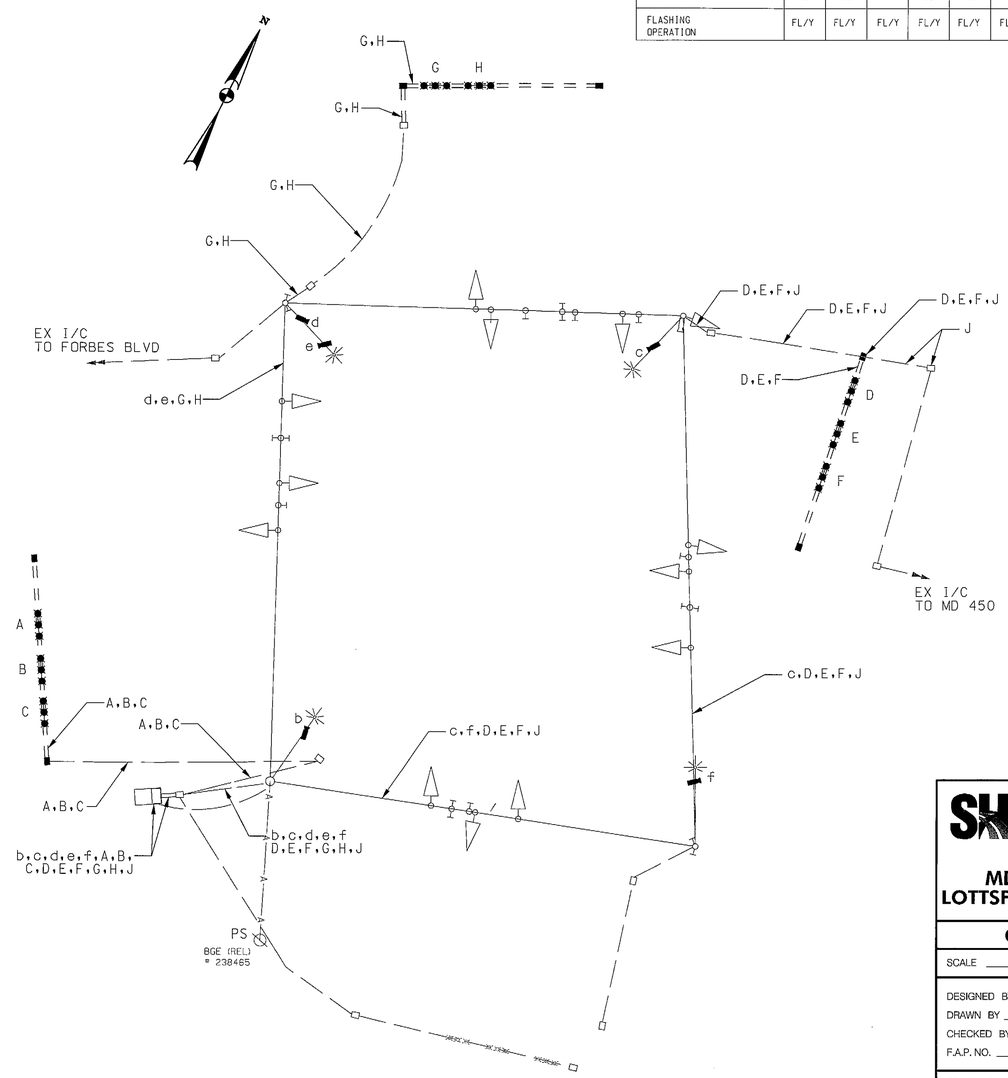
C. ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 1 & 5	◁G-/R	◁G-/R	R	◁G-/R	R	◁G-/R	R	R	R	R	R	R	R
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6													
PHASE 1 & 6	◁G-/G	◁G-/G	G	R	R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	◁Y-/G	◁Y-/G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	◁G-/G	G	◁G-/G	G	R	R	R	R	R	R
2 & 5 CHANGE	R	R	R	◁Y-/G	G	◁Y-/G	G	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	G ◁G-	G ◁G-	G
3 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y
PHASE 4	R	R	R	R	R	R	R	G ◁G-	G ◁G-	G	R	R	R
4 CHANGE	R	R	R	R	R	R	R	Y	Y	Y	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM
NOT TO SCALE



WIRING KEY

b, c, d, e, f } VIDEO DETECTION CAMERA LEAD-IN CABLE

A, B, C, D, E, F, G, H } NON-IVASIVE MICROLOOP PROBE WITH 1,000' LEAD-IN CABLE

J } PULL BACK AND RE-ROUTE EXISTING INTERCONNECT CABLE FROM MD 450

PS } EXISTING POWER SOURCE

T3 DESIGN CORP
3927 OLD LEE HWY
SUITE 101-C
FAIRFAX, VA 22030
PHONE: 703-359-5861
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BY: swilkening

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

MD 704 (M. L. KING JR. HWY) AND LOTTSFORD VISTA RD /BUSINESS PARKWAY
MITCHELLVILLE, MD

GENERAL INFORMATION SHEET

SCALE NONE DATE 5/13/13 CONTRACT NO. PG7865377

DESIGNED BY SJW
DRAWN BY SJW
CHECKED BY AJM
F.A.P. NO.
COUNTY PRINCE GEORGE'S
LOGMILE 16070406.25
T.I.M.S. NO. L525
TOD NO.

TS NO. 2637D-GI | DRAWING NO. SG-08 OF 10 | SHEET NO. 2 OF 2

PLOTTED: Thursday, May 09, 2013 AT 03:57 PM
FILE: Y:\12-0294-82 MD 704\CADD\pSG_F008_MD704.dgn