

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES UPGRADING OF THE EXISTING DETECTION AND STREET LIGHTING AND ADDITION OF A WESTBOUND LEFT-TURN LANE WITH EXCLUSIVE/PERMISSIVE PHASING AT MD 68-MD 63 (CONOCOCHEAQUE STREET)/MD 68 (LAPPANS ROAD) & MD 63 (SPIELMAN ROAD)/GOVERNOR LANE BLVD IN WASHINGTON COUNTY, MARYLAND  
 MD 68 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

**INTERSECTION OPERATION**

THE INTERSECTION OPERATION WILL BE REVISED TO ADD EXCLUSIVE/PERMISSIVE PHASING FOR WESTBOUND MD 68 LEFT-TURNS.

**CONTROLLER REQUIREMENTS**

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CABINET WILL BE RETROFITTED TO OPERATE VIDEO DETECTION AND THE CONTROLLER OPERATION SHALL BE UPDATED FOR THE PHASING CHANGE.

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.02-01 (SHOULDER WORK TWO-LANE/TWO-WAY)

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING)

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

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

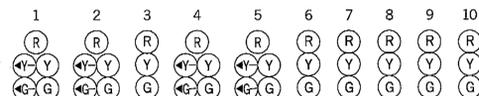
MR. ROBERT SYNDER  
 ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION  
 PHONE: (410) 787-7631

MR. GARY SHANK  
 ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
 PHONE: (301) 729-8457

MR. RICHARD L. DAFF, SR.  
 CHIEF, TRAFFIC OPERATIONS DIVISION  
 PHONE: (410) 787-7630

MR. DAVID FELKER  
 DISTRICT UTILITY ENGINEER  
 PHONE: (301) 729-8435

**PHASE CHART**



PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																			
PHASE 1 AND 6	+GG	+GG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 6 CHANGE	+YG	+YG	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	+GG	+GG	G	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 5 CHANGE	R	R	R	+YG	+YG	G	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R												

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	EACH	DESCRIPTION
9000	1700	LF	5 INCH YELLOW PAVEMENT MARKING PAINT LINES
9000	900	LF	5 INCH WHITE PAVEMENT MARKING PAINT LINES
9000	1600	LF	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
9086	1	EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS
9571	51	SF	SHEET ALUMINUM SIGNS: -(1) R10-12 (36"x42") - SPAN MOUNT -(1) R3-5(R) (30"x36") - SPAN MOUNT -(2) D-3(1) (VAR-x16") DUAL FACED - SPAN MOUNT -(1) W1-1 (36"x36") BLK/FY - GROUND MOUNT -(1) W16-1 (24"x30") BLK/FY - GROUND MOUNT

**EQUIPMENT LIST "B"**

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

ITEM NO.	QUANTITY	EACH	DESCRIPTION
1003	1	EA	MAINTENANCE OF TRAFFIC
5007	50	LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
8006	2	EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE
8020	3	EA	NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT
8021	1	EA	REMOVE & DISPOSE MATERIAL & EQUIPMENT PER ASSIGNMENT
8025	5	EA	VIDEO DETECTION CAMERA & CABLE UP TO 500 FT
8032	180	LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8034	550	LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8035	40	LF	WOOD SIGN SUPPORTS UP TO 4 X 6
8036	51	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8045	7	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8050	3	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8056	50	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8057	275	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8058	350	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC
NEG	60	LF	10 INCH HEAT APPLIED YELLOW PERMANENT PAVEMENT MARKING LINES

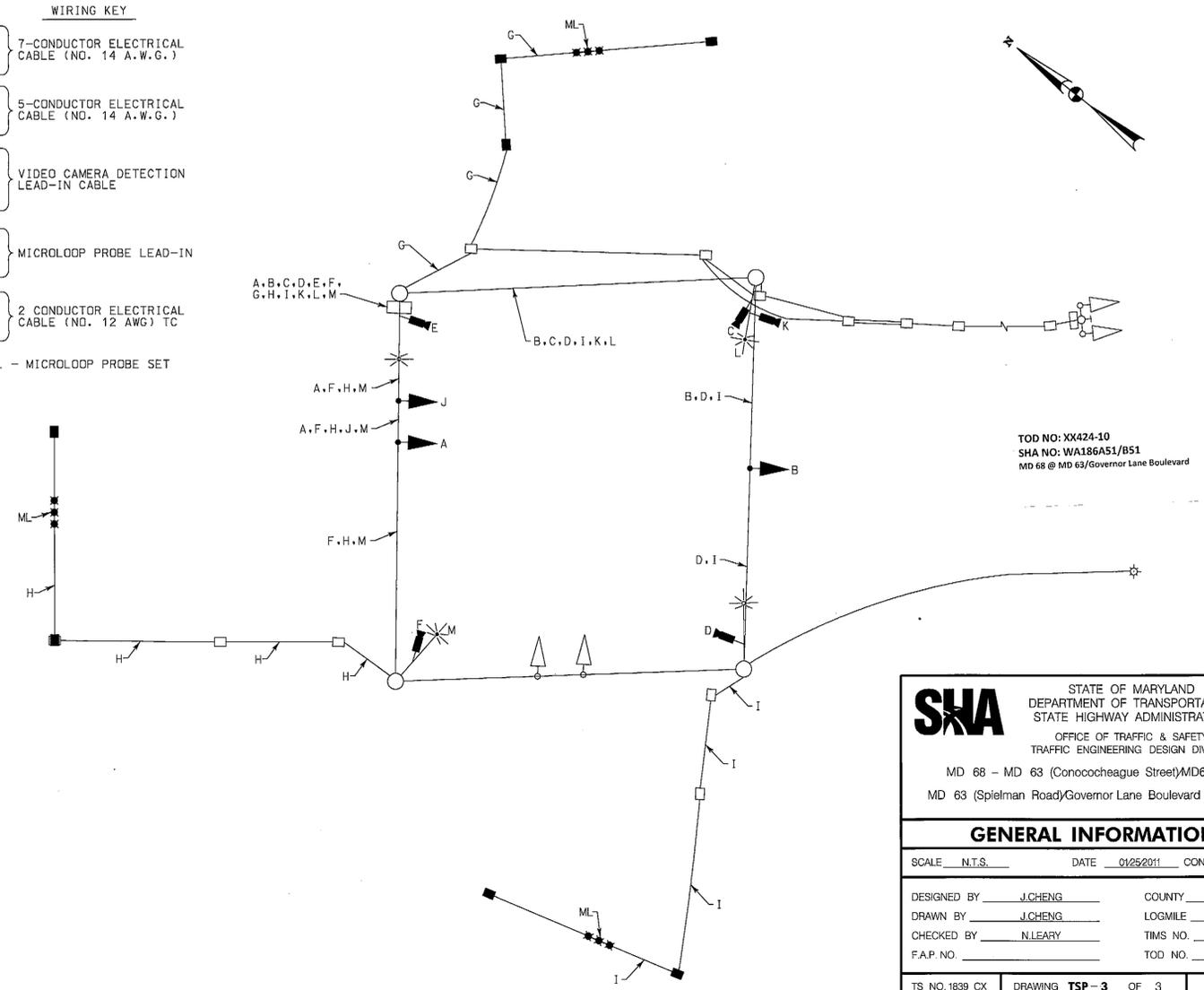
**EQUIPMENT LIST "C"**

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA  
 ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

**WIRING DIAGRAM**

**WIRING KEY**

- A B } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } VIDEO CAMERA DETECTION LEAD-IN CABLE
- G H I } MICROLOOP PROBE LEAD-IN
- L M } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TC
- ML - MICROLOOP PROBE SET



TOD NO: XX424-10  
 SHA NO: WA186A51/B51  
 MD 68 @ MD 63/Governor Lane Boulevard

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

MD 68 - MD 63 (Conococheague Street)/MD68 (Lappans Road) &  
 MD 63 (Spielman Road)/Governor Lane Boulevard - Williamsport, Maryland

**GENERAL INFORMATION SHEET**

SCALE N.T.S. DATE 01/25/2011 CONTRACT NO. XX42451B5

DESIGNED BY J.CHENG COUNTY Washington  
 DRAWN BY J.CHENG LOGMILE 21008808.520  
 CHECKED BY N.LEARY TMS NO. K634  
 F.A.P. NO. \_\_\_\_\_ TOD NO. \_\_\_\_\_

TS NO. 1839 CX DRAWING **TSP-3** OF 3 SHEET NO. 3 OF 3

**WR&A**  
 WHITMAN, REQUARDT & ASSOCIATES, LLP  
 801 South Caroline Street, Baltimore, Maryland 21231

PLOTTED: 01-24-2011  
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