

**PROJECT DESCRIPTION**

**GENERAL**

THIS PROJECT INVOLVES MODIFYING THE EXISTING TRAFFIC CONTROL SIGNAL AT MD 7 (PHILADELPHIA ROAD) AND ABINGDON ROAD IN ABINGDON, HANFORD COUNTY. THE MODIFICATION INCLUDES INSTALLING EXCLUSIVE / PERMISSIVE (E/P) LEFT TURN PHASE ON ALL FOUR APPROACHES.

**INTERSECTION OPERATION**

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT PHASE, FULLY-ACTUATED MODE WITH MD 7 APPROACHES RUNNING CONCURRENTLY AND THE ABINGDON ROAD APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASE IS PROVIDED FOR ALL THE APPROACHES.

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE PROJECT.

- STANDARD NO. MD-104.00-104.00-12 STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)
- STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
- STANDARD NO. MD-104.49-01 (SHOULDER WORK)
- STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)

**PROJECT CONTACTS**

**CONTACT PERSONS FOR DISTRICT #4:**

MR. DAVE MALKOWSKI  
DISTRICT ENGINEER  
PHONE: (410) 321-2810

MR. RANDALL SCOTT  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-2781/2785

MR. STEVE MARCISZEWSKI  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-2761

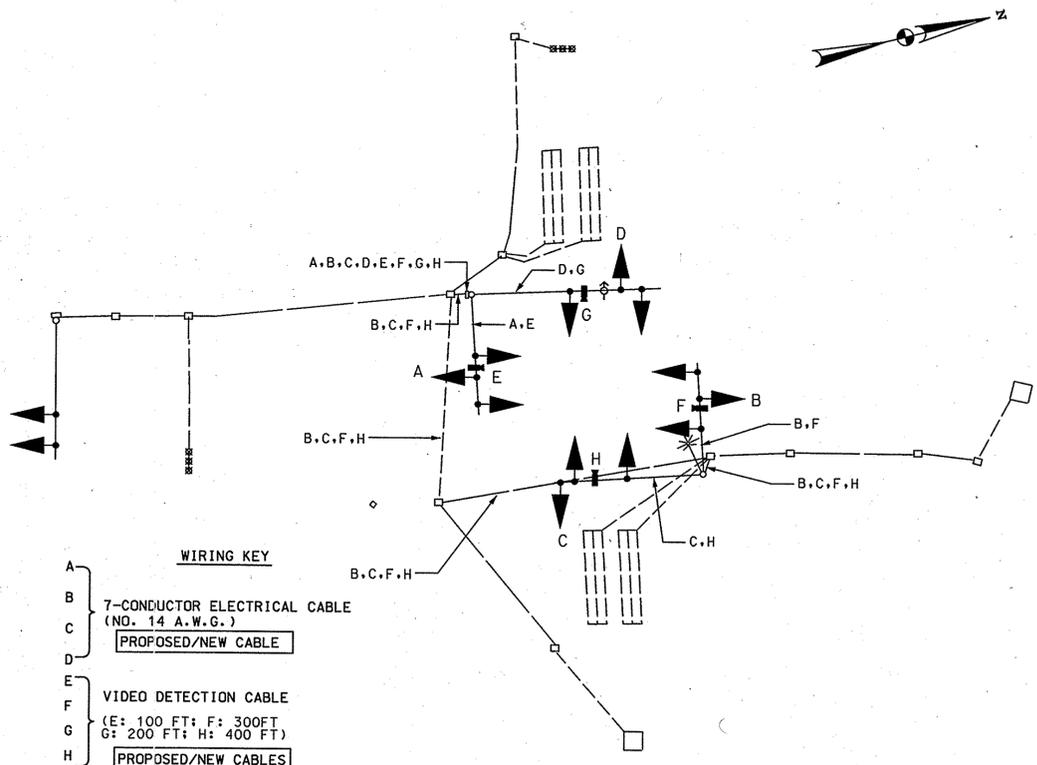
MR. DAN WITT  
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 321-2821

**CONTACT PERSONS FOR OOTS:**

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

MR. EDWARD RODENHIZER  
CHIEF, SIGNAL OPERATIONS  
PHONE: (410) 787-7650

**WIRING DIAGRAM**



USE EXISTING ELECTRICAL CABLES FOR ALL OTHER SIGNAL HEADS.

**EQUIPMENT LISTS**

**EQUIPMENT LIST "A"**

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE S.H.A.

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EA.	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9570	37.50 S.F.	FLAT SHEET ALUMINUM GROUND MOUNTED SIGN: (BLACK ON SILVER - SHIELD ASSEMBLIES) TWO 24"x51" SIGNS: - M3-2, 24"x12" (NORTH & SOUTH) - M1-5, 24"x24" (MD 7) - M6-1, 21"x15" (LEFT & RIGHT)  TWO 36"x75": - M3-2, 30"x15" (NORTH & SOUTH) - M1-5, 36"x36" (MD 7) - M6-1, 30"x24" (LEFT & RIGHT)
9571	56.00 S.F.	FLAT SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN: - D3-2 DUAL FACE STREET NAME SIGN, WHITE ON GREEN - W3-3(2), 120"x60" BLACK ON FLUORESTENT YELLOW

**EQUIPMENT LIST "C"**

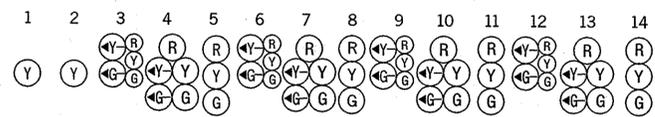
EQUIPMENT TO BE REMOVED

ALL MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

**EQUIPMENT LIST "B"**

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	3 EA.	MAINTENANCE OF TRAFFIC
8007	1 EA.	CONTROL CABLE, 100 FOOT, VIDEO DETECTION
8008	1 EA.	CONTROL CABLE, 200 FOOT, VIDEO DETECTION
8009	1 EA.	CONTROL CABLE, 300 FOOT, VIDEO DETECTION
8010	1 EA.	CONTROL CABLE, 400 FOOT, VIDEO DETECTION
8019	1 EA.	REMOVE & DISPOSE OF MATERIAL AND EQUIPMENT PER ASSIGNMENT
8029	20 L.F.	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8056	37.50 S.F.	INSTALL GROUND MOUNTED SIGN
8057	56 S.F.	INSTALL OVERHEAD SIGN
8058	4 EA.	VIDEO DETECTION CAMERA
8086	775 L.F.	F & I ELECTRICAL CABLE - 7 CONDUCTOR NO. 14 AWG
8101	32 EA.	NEG - APPROVED, F & I RED AND/OR GREEN LED TRAFFIC SIGNAL HEADS
8102	22 EA.	NED - APPROVED, F & I AMBER LED TRAFFIC SIGNAL HEADS FOR HIB'S, ICB AND CMS



PHASE	FL	Y	FL	Y	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 1 AND 5	FL/Y	FL/Y	R	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	DARK	DARK	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 6 CHANGE	DARK	DARK	Y	Y	Y	G	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 5 CHANGE	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	DARK	DARK	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R
2 AND 6 CHANGE	DARK	DARK	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R
PHASE 3 AND 7	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8																	
PHASE 3 AND 8	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
3 AND 8 CHANGE	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 AND 7	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 AND 7 CHANGE	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 AND 8	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 AND 8 CHANGE	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	DARK	DARK	FL/Y														
FIREHOUSE PRE-EMPTION																	
PHASE 4 FIREHOUSE PRE-EMPTION	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 FIREHOUSE CLEARANCE	FL/Y	FL/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	DARK	DARK	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R
NORMAL OPERATION	DARK	DARK	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R

**PHASE CHART**

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

**MD 7 (Philadelphia Road) & Abingdon Road**

SCALE NONE DATE 08/24/2005 CONTRACT NO. AT6045185

DESIGNED BY M. A. MEARS COUNTY HANFORD  
DRAWN BY M. A. MEARS LOGMILE 12000706.16  
CHECKED BY TIMS NO. H-084  
FAP NO. TOD NO. 3362 E

TS NO. DRAWING OF SHEET NO. 2 OF 2