

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 7 AT ABINGDON ROAD IN HARFORD COUNTY.

INTERSECTION OPERATION

EXISTING CABINET/CONTROLLER WILL BE UTILIZED AT THIS LOCATION. THE INTERSECTION WILL REMAIN OPERATING A FULLY ACTUATED MODE USING 8 NEMA PHASES. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR BOTH THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 7. THE MD 7 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR BOTH THE EAST AND WESTBOUND MOVEMENTS OF ABINGDON ROAD. THE ABINGDON ROAD THROUGH MOVEMENT OPERATE CONCURRENTLY.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

- MS. ERIN KUHN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: 410-229-2381
- MR. DONALD SCHAFFER, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 229-2421
- MR. ANDRE FUTRELL, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: 410-229-2761
- MR. MICHAEL PASQUARIELLO, UTILITY ENGINEER
PHONE: 410-229-2341
- MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
- MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

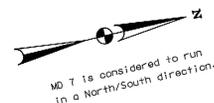
EQUIPMENT LIST

- A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.
NONE.
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
15	LF	SAWCUT FOR SIGNAL LOOP DETECTOR
1	EA	MICROLOOP PROBE (SET OF 3) WITH 500 FT. LEAD-IN CABLE
25	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
5	LF	1 IN. LIQUID TIGHT FLEXIBLE CONDUIT FOR DETECTOR SLEEVE
1	EA	RELOCATE EXISTING OPTICOM.

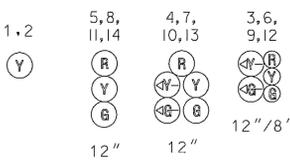
CONSTRUCTION DETAILS

- A. INSTALL MICRO-LOOP PROBE (SET OF 3).
- B. USE EXISTING HANDHOLE.
- C. USE EXISTING CONDUIT.
- D. USE EXISTING POLE MOUNTED CABINET/CONTROLLER.
- E. ABANDON EXISTING VEHICLE DETECTION.
- F. INSTALL 1 IN. LIQUID TIGHT FLEXIBLE CONDUIT FOR LOOP DETECTOR.
- G. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- H. RELOCATE EXISTING OPTICOM.



RELOCATE EXISTING OPTICOM

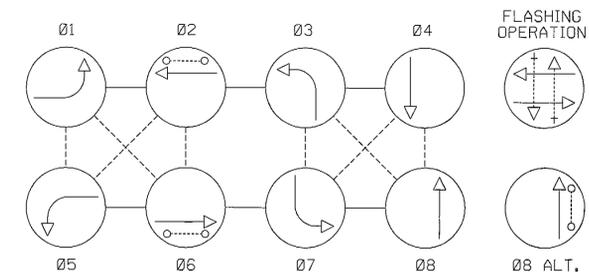
EXISTING SIGNALS



EXISTING VIDEO DETECTION

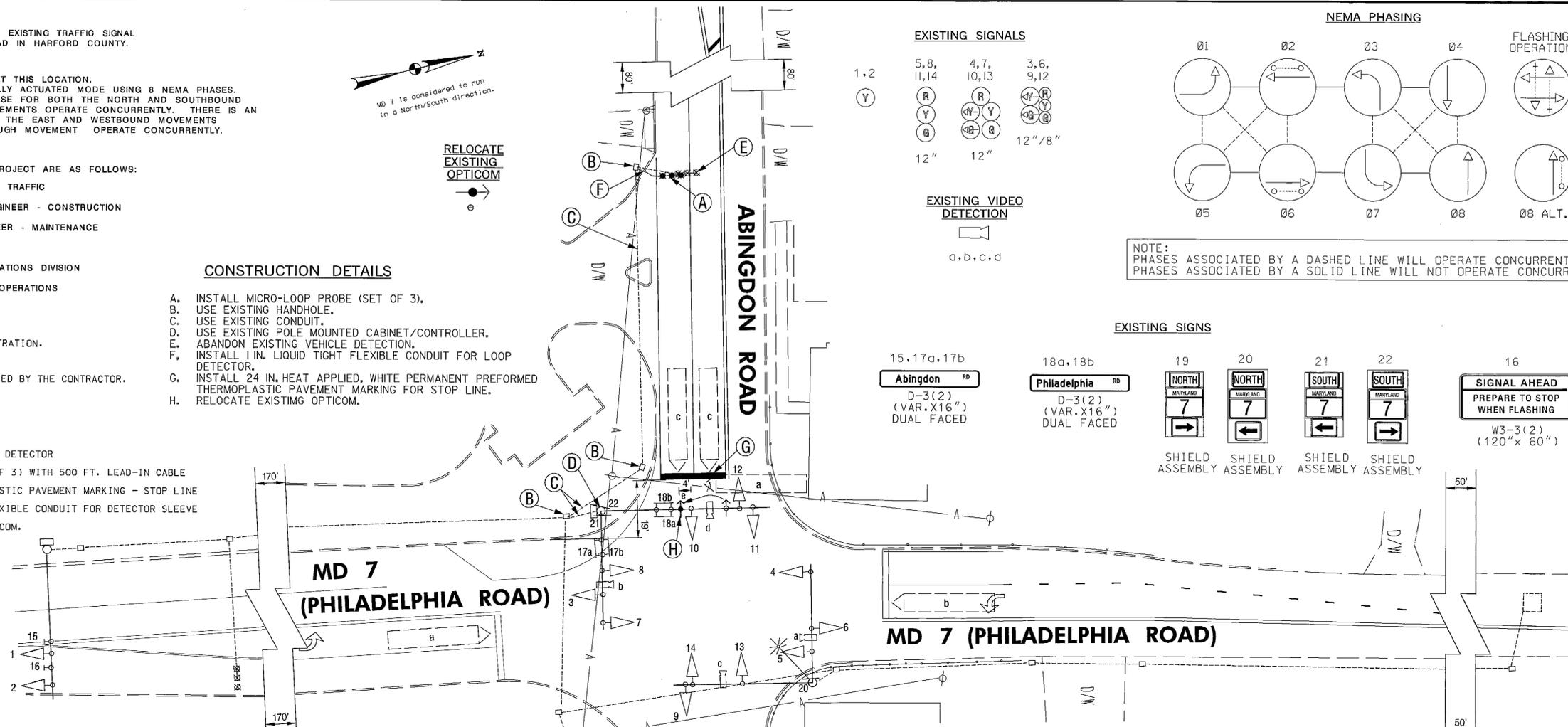
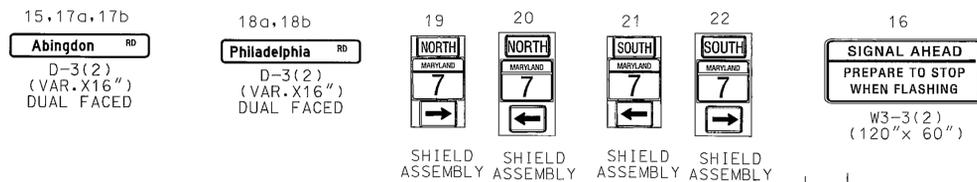


NEMA PHASING

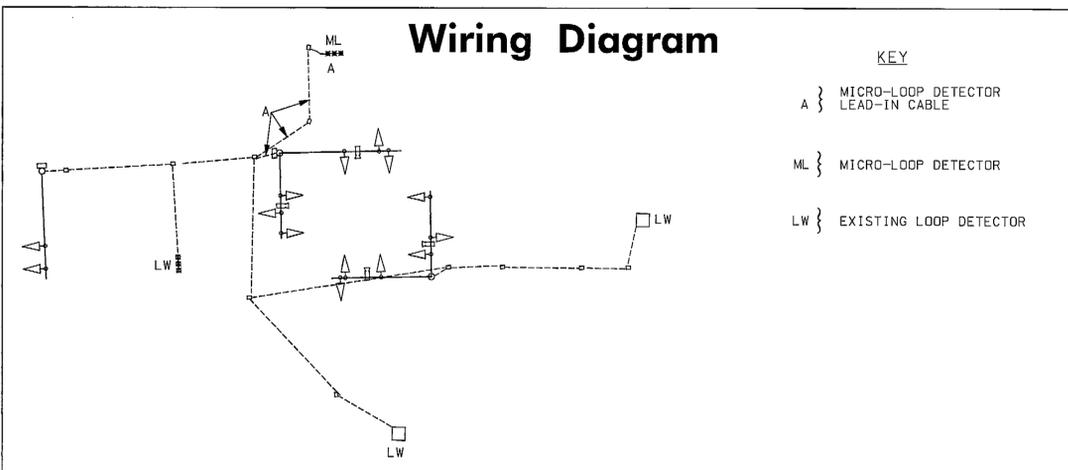


NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

EXISTING SIGNS



Wiring Diagram



- KEY**
- A } MICRO-LOOP DETECTOR LEAD-IN CABLE
 - ML } MICRO-LOOP DETECTOR
 - LW } EXISTING LOOP DETECTOR

GENERAL NOTES

- PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS EXISTING.
- GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- ALL UNUSED CABLE SHALL BE REMOVED.

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

MD 7 (PHILADELPHIA ROAD) AND ABINGDON ROAD
BEL AIR, MARYLAND

TRAFFIC SIGNAL PLAN

APPROVALS	REVISIONS	SCALE	DATE	CONTRACT NO.
<p>YEAH LEADER</p> <p>ASST. DIV. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>REPLACE ABINGDON ROAD SIGNAL HEADS SHA No. BW996M82 MARCH 23, 2010</p> <p>INSTALL EP PHASES FOR ALL APPROACHES SHA No. AT80M8185 AUG, 2005</p> <p>ADD EMERGENCY SIGNAL PRE-EMPTION FOR SB ABINGDON ROAD AT MD 7 SHA No. AT80M8185 FEB 2, 1985</p>	1" = 20'		BW996M82
<p>DESIGNED BY G. HALLMYER COUNTY HARFORD</p> <p>DRAWN BY G. COOK LOGMILE 1200708.16</p> <p>CHECKED BY</p> <p>F.A.P. NO. AC-STPG-00A(26)E TMS NO. K-173</p>		<p>TS NO. 2066-F DRAWING SG-01 OF 01 SHEET NO. 1 OF 1</p>		

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF 1 YEAR FROM THE DATE OF APPROVAL. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME THESE PLANS SHALL BE NULL AND VOID WITHOUT A REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

PLOTTED BY: FHoekel

The Traffic Group, Inc.
Suite H
9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601
"Merging Innovation and Excellence"®

GEOMETRIC LEGEND

- EXISTING
- - - PROPOSED

UTILITY LEGEND

- SD — STORM DRAIN
- G — GAS MAIN
- W — WATER MAIN
- S — SEWER MAIN
- E — ELECTRIC CABLES
- A — AERIAL CABLES
- T — TELEPHONE CABLES
- F — FIBER-OPTIC