

PROJECT DESCRIPTION

GENERAL
 THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 543 AT MD 136 IN HARFORD COUNTY.

THE MODIFICATION IS TO INSTALL A NEW MICRO-LOOP PROBE DETECTION IN WESTBOUND MD 136 DUE TO ROADWAY WIDENING.

INTERSECTION OPERATION

THE EXISTING CABINET/CONTROLLER WILL BE UTILIZED AT THIS LOCATION. THE INTERSECTION WILL REMAIN OPERATING A FULLY ACTUATED MODE USING 6 NEMA PHASES. THE MD 543 MOVEMENTS OPERATE CONCURRENTLY. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE EAST AND WESTBOUND MOVEMENTS OF MD 136. THE MD 136 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY.

SPECIAL NOTES

PROJECT CONTACTS:

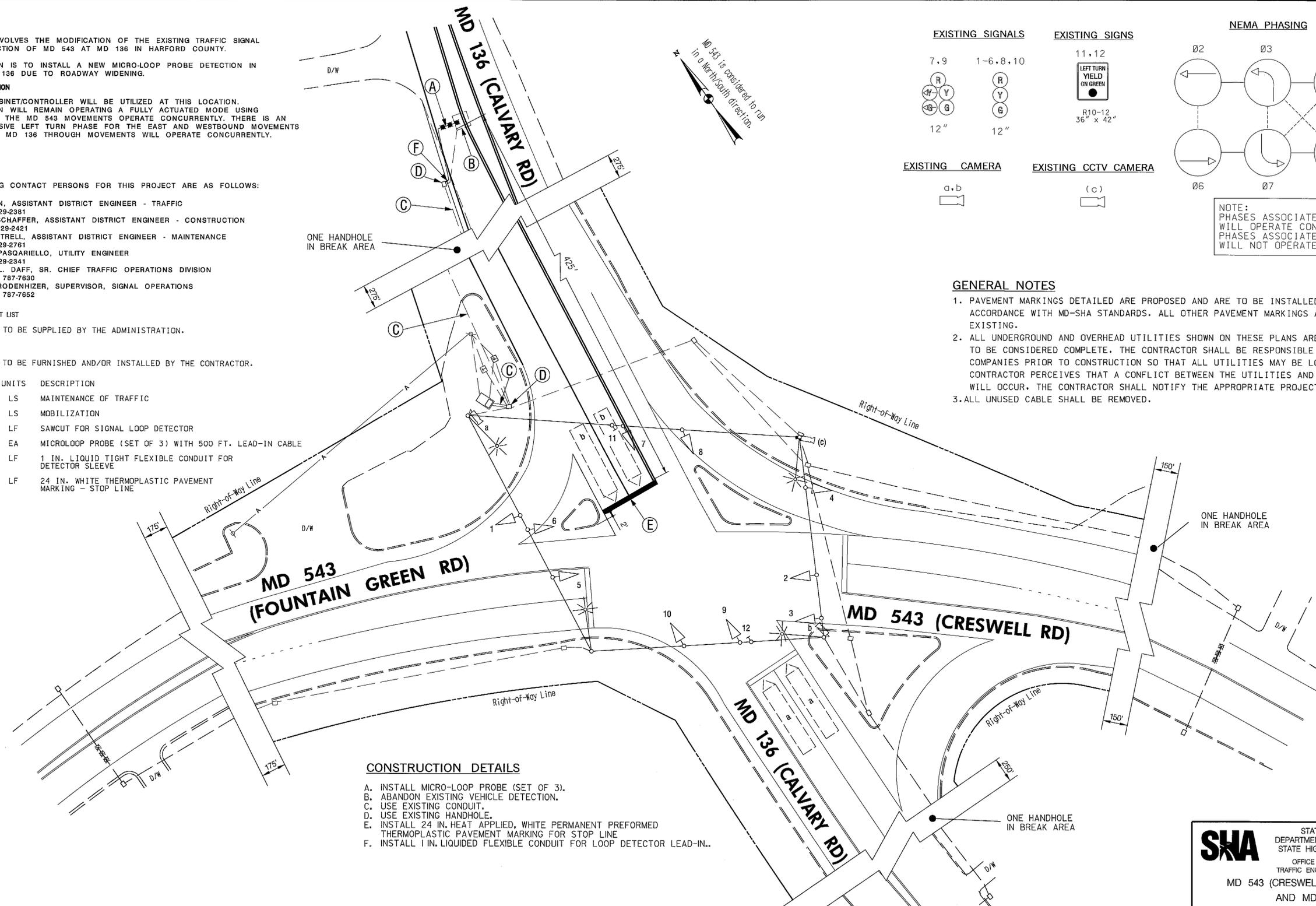
1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

- 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) 787-7830
- MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

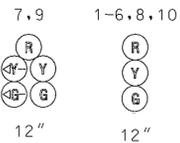
EQUIPMENT LIST

- 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
35	LF	SAWCUT FOR SIGNAL LOOP DETECTOR
1	EA	MICROLOOP PROBE (SET OF 3) WITH 500 FT. LEAD-IN CABLE
5	LF	1 IN. LIQUID TIGHT FLEXIBLE CONDUIT FOR DETECTOR SLEEVE
30	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE



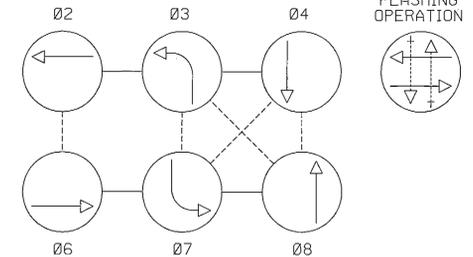
EXISTING SIGNALS



EXISTING SIGNS



NEMA PHASING



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

EXISTING CAMERA



EXISTING CCTV CAMERA



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.
- 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.

CONSTRUCTION DETAILS

- A. INSTALL MICRO-LOOP PROBE (SET OF 3).
- B. ABANDON EXISTING VEHICLE DETECTION.
- C. USE EXISTING CONDUIT.
- D. USE EXISTING HANDHOLE.
- E. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE
- F. INSTALL 1 IN. LIQUID FLEXIBLE CONDUIT FOR LOOP DETECTOR LEAD-IN.

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 "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

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.

APPROVALS	REVISIONS
<p>TEAM LEADER</p> <p>ASSY. DIV. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>F REPLACE LOOP DETECTOR MD 136 DUE TO ROAD WIDENING SHA No. BW996M82 June 7, 2010 FJH</p> <p>E UPGRADE LOOP DETECTION TO VIDEO ASBUILT SHA No. XX0356169 Sept 25, 2009 Etc</p> <p>D REPLACED FAILED LOOP DETECTORS Sept 2004 JM</p>

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 543 (CRESWELL RD) FOUNTAIN GREEN RD
 AND MD 136 (CALVARY RD)
 BEL AIR, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE: 1" = 20' DATE: JUNE, 1973 CONTRACT NO. BW996M82

DESIGNED BY: LES TOWNSEND COUNTY: HARFORD
 DRAWN BY: CT LOGMILE: 12054302.15
 CHECKED BY: TMS NO. K-174
 F.A.P. NO. N/A TOD NO.

TS NO. 618F DRAWING **SG-01** OF 01 SHEET NO. 1 OF 1

PLOTTED: Monday, June 07, 2010 AT 01:45 PM
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