

# PROJECT DESCRIPTION

## GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF NEW ADVANCE VEHICLE DETECTORS AND VEHICLE SIGNAL HEADS ON THE MD 450 EASTBOUND APPROACH. MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

## INTERSECTION OPERATION

THIS INTERSECTION IS TO OPERATE AS IN PRECEEDING PHASE.

## CONTROLLER REQUIREMENTS

THE EXISTING CABINET AND CONTROLLER ARE TO BE UTILIZED.

## SPECIAL NOTE

THIS INTERSECTION IS APPROXIMATELY 1100 FT. EAST OF THE EXISTING INTERSECTION OF MD 450 AT MD 704.

ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UNDERGROUND AND OVERHEAD UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. 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.

72 HOURS PRIOR TO ANY WORK ON THE TRAFFIC SIGNALS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT 3 TRAFFIC SECTION REPRESENTATIVE, MR. RICHARD BUETTNER (301-513-7316) AND THE SIGNAL OPERATIONS SUPERVISOR, MR. EDWARD RODENHIZER (410-787-7652).

# EQUIPMENT LIST "A"

## A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

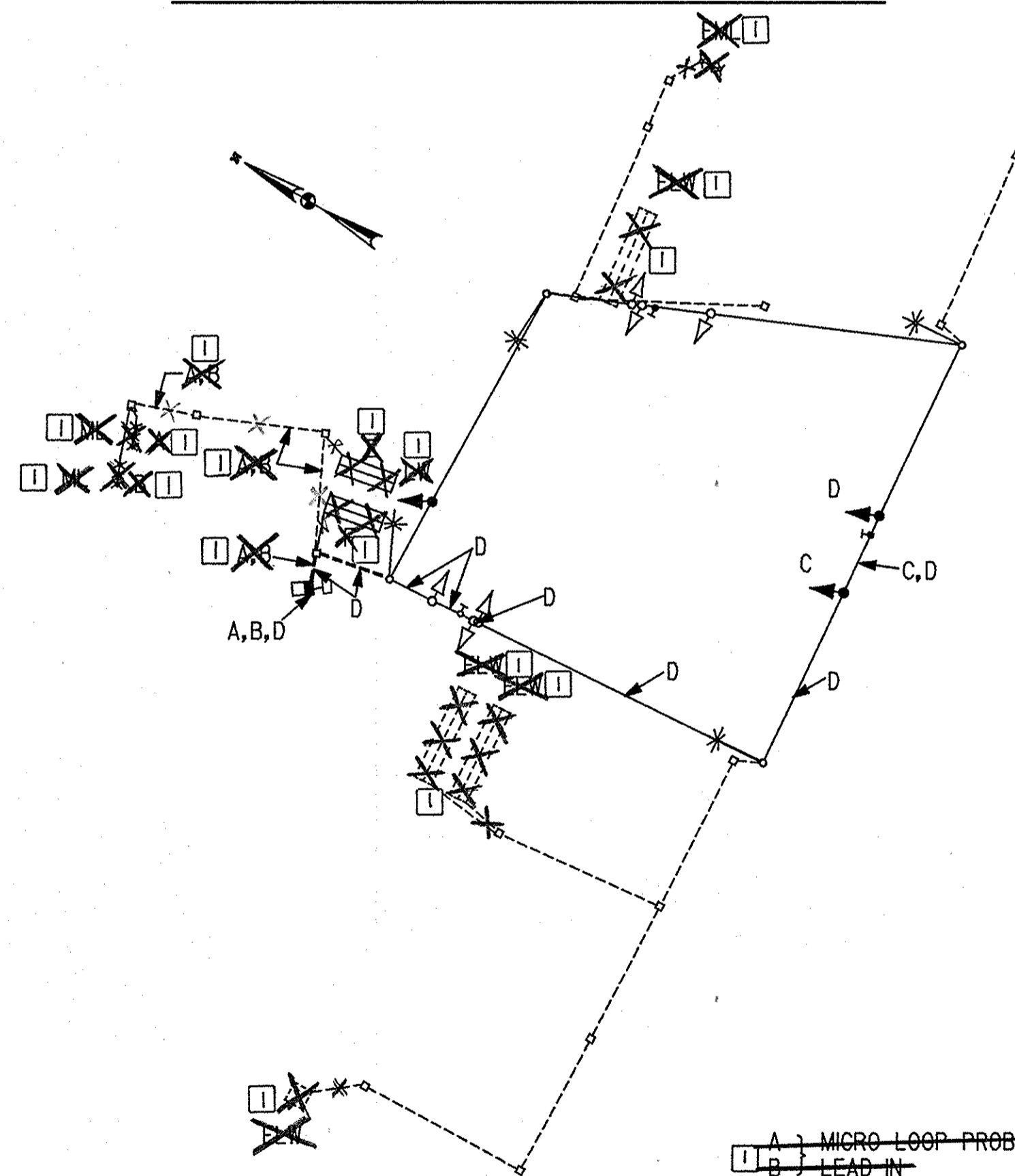
CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
960017	814	2 EA.	12 IN. 1 WAY 3 SECTION (RA, YA, GA) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
973023	813	15 S.F.	SHEET ALUMINUM SIGNS - 2 EACH R3-5(L) (30" X 36")
<del>900000</del>	<del>810</del>	<del>2 EA.</del>	<del>MICRO LOOP PROBE SET DETECTOR WITH 500 FT. LEAD IN</del>

# EQUIPMENT LIST "B"

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

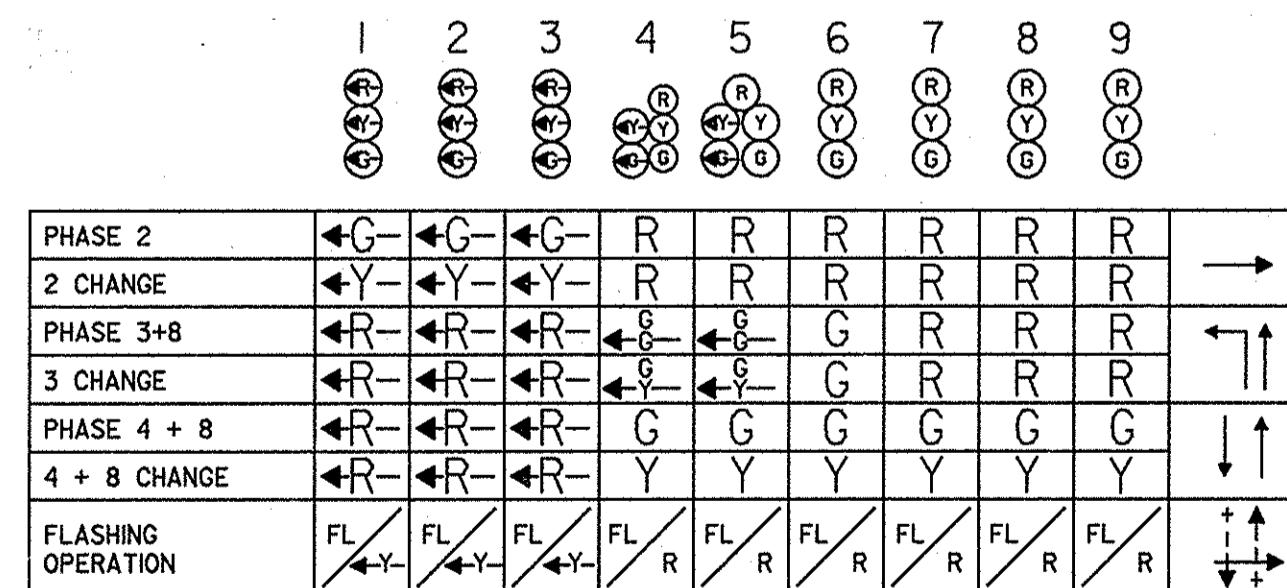
CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
114245	104	30 L.F.	24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
<del>805160</del>	<del>805</del>	<del>10 L.F.</del>	<del>FURNISH AND INSTALL 1 IN. LIQUID TIGHT NON METALLIC CONDUIT FOR DETECTOR SLEEVE</del>
813015	813	15 S.F.	INSTALL OVERHEAD SIGN
860017	814	2 EA.	INSTALL 12 IN., 1 WAY, 3 SECTION (RA, YA, GA) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
860265	814	1 EA.	RELOCATE EXISTING SIGNAL HEAD
<del>861104</del>	<del>810</del>	<del>863 L.F.</del>	<del>FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)</del>
861107	810	32 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	810	290 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
<del>862102</del>	<del>815</del>	<del>275 L.F.</del>	<del>FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)</del>
869101	819	101 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE - 1/4 IN. DIAMETER
<del>800000</del>	<del>810</del>	<del>2 EA.</del>	<del>INSTALL MICRO LOOP PROBE SET</del>
800000	XXX	LUMP SUM	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

# WIRING DIAGRAM



- A } MICRO LOOP PROBE
- B } LEAD IN
- C } 5-CONDUCTOR CABLE (NO. 14 A.W.G.)
- D } 7-CONDUCTOR CABLE (NO. 14 A.W.G.)
- E } 2-CONDUCTOR CABLE (ALUMINUM SHIELDED)
- F } 2-CONDUCTOR CABLE (ALUMINUM SHIELDED)
- LW } LOOP WIRE (NO. 14 A.W.G.) IN FLEXIBLE TUBING
- ML } MICRO LOOP PROBE SET
- ELW } EXISTING LOOP WIRE
- EML } EXISTING MICRO LOOP

# PHASE DIAGRAM



RED LINE REV. NO. 1  
7-14-97

TEMPORARY SIGNAL PHASE IV DWG. NO. TS-16

THE WILSON T. BALLARD CO.  
CONSULTING ENGINEERS  
OWINGS MILLS, MARYLAND

REVISIONS	APPROVALS
	ASST. DIVISION CHIEF, TEDD
	ASST. DISTRICT ENGINEER, TRAFFIC
④	CHEF, TRAFFIC ENGINEERING DESIGN DIVISION
JDM	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
MD 450 (ANNAPOLIS ROAD) AT MD 704 (MARTIN LUTHER KING JR. HWY)  
LOG MILE NO. 16045007.35 DATE 2 / 6 / 91

DRAWN BY: D. A. NIES  
D. DODD 7/25/91  
E. MILESKY 7/26/91  
CHECK BY: E. MILESKY 7/26/91

F.A.P. NO. SEE TITLE SHEET  
S.H.A. NO. P-981-451-385  
COUNTY PRINCE GEORGES

PLAN SHEET NO.: TS-3167A-X4-P  
SHEET NO. 362 OF 465