

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE FINAL EQUIPMENT INSTALLATION AND ADJUSTMENT FOR THE ULTIMATE TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 450 AND MD 704 IN PRINCE GEORGES COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION IS TO BE MODIFIED TO A NEMA FIVE PHASE AND WILL INCLUDE THE ADDITION OF AN EXCLUSIVE/PERMISSIVE U-TURN FOR WESTBOUND MD 450. ALL OTHER PHASES REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER AND CABINET 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.

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND TELEPHONE NUMBER.

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

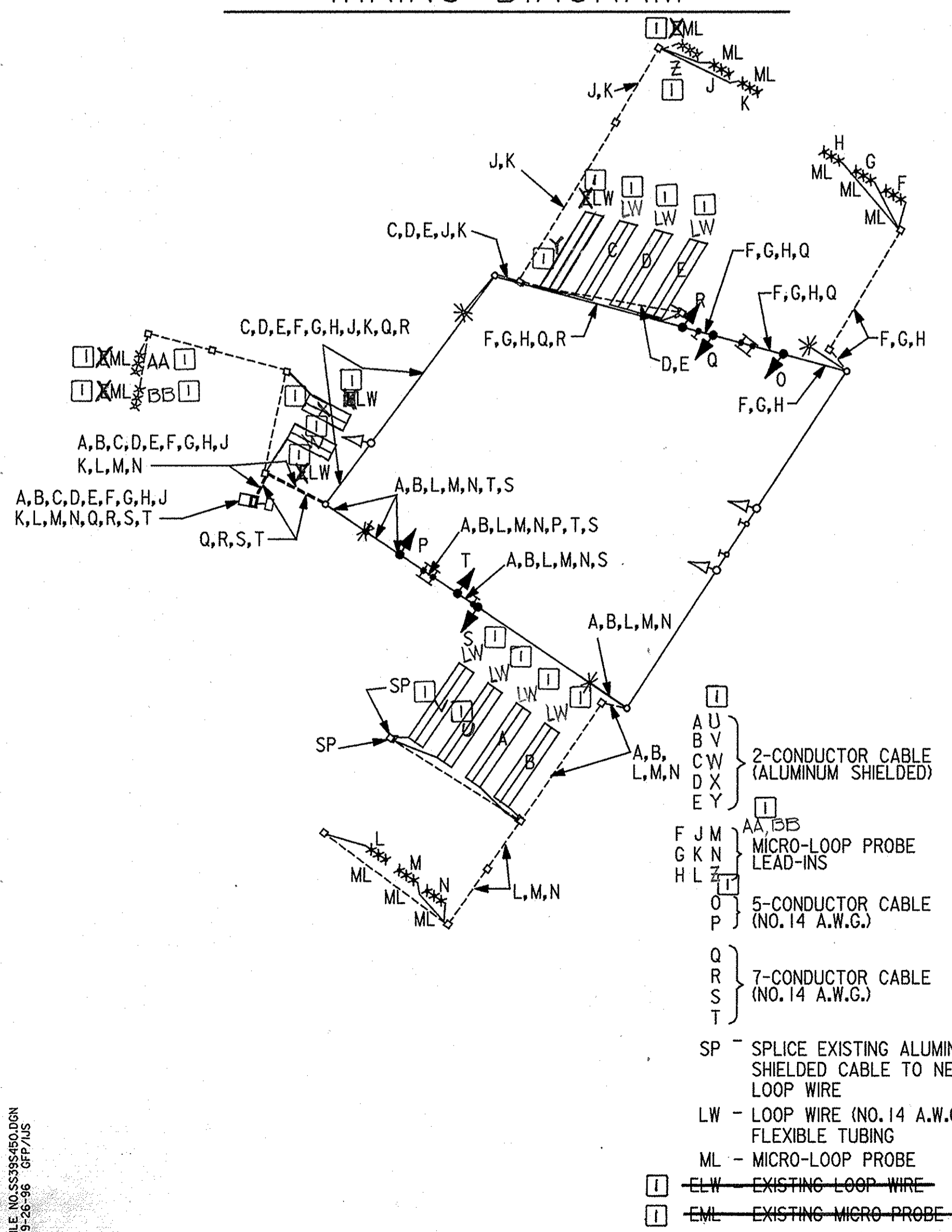
CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
960015	814	1 EA.	12 IN. 1 WAY 3 SECTION (R,Y,G) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
960020	814	1 EA.	12 IN. 1 WAY 5 SECTION (R,Y,G,YA,GA) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
973023	813	10.5 S.F.	SHEET ALUMINUM SIGNS - 1 EACH R10-12 MOD (36" X 42")
900000	814	1 EA.	8 IN./12 IN. 1 WAY 5 SECTION (8" R,Y,G - 12" YA,GA) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
900000	814	1 EA.	12 IN. 1 WAY 5 SECTION (R,Y,YA,G,GA) U-TURN ARROW ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
900000	814	1 EA.	8 IN./12 IN. 1 WAY 5 SECTION (8" R,Y,G - 12" YA,GA) (U-TURN ARROW) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN MOUNTING HARDWARE AND TUNNEL VISORS
900000	810	1 5 EA.	MICRO LOOP PROBE SET WITH 500 FOOT LEAD-IN
900000	810	1 6 EA.	MICRO LOOP PROBE SET WITH 1000 FOOT LEAD-IN

EQUIPMENT LIST "B"

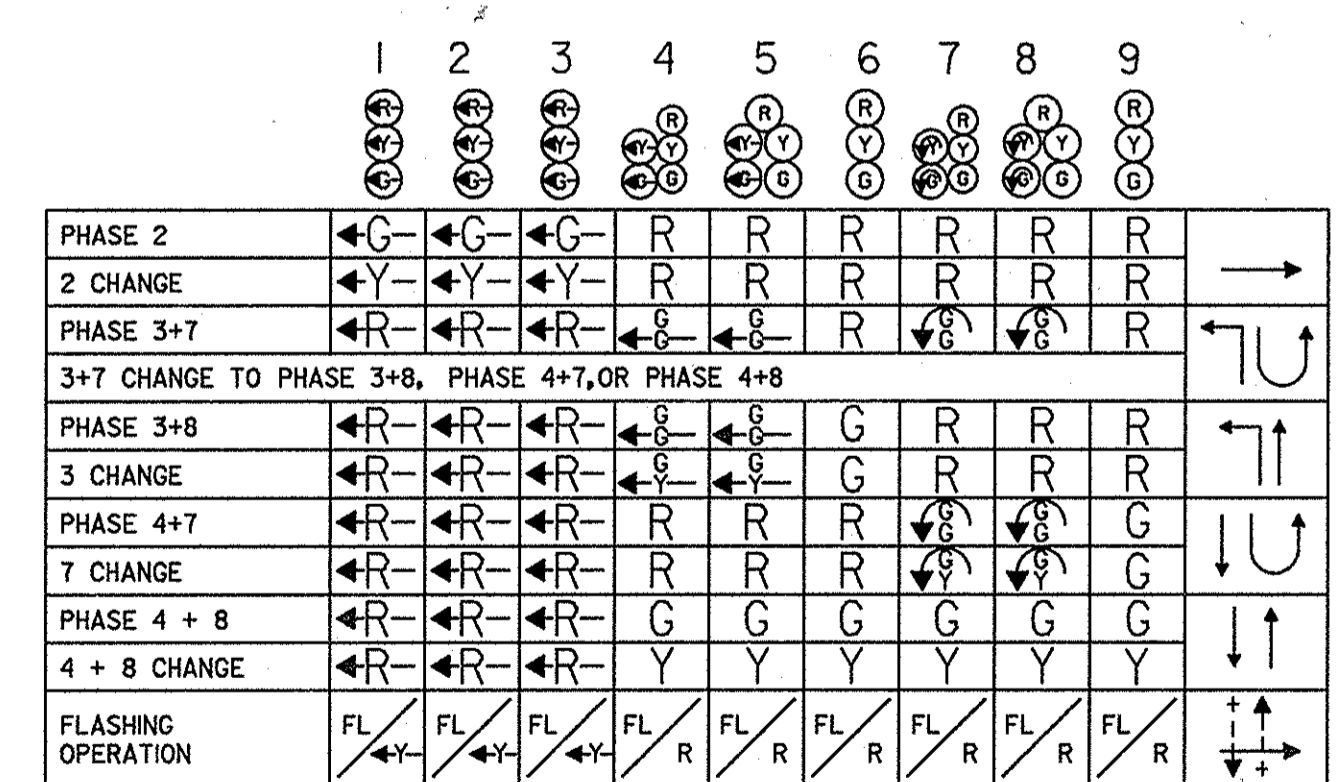
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
585445	XXX	138 L.F.	24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
1 205011 808160	805	1 05 EA.	FURNISH AND INSTALL 1 IN. ELECTRICAL FLUOROPOLYETHYLENE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE GALVANIZED STEEL
813015	813	10.5 S.F.	INSTALL OVERHEAD SIGN
822500	XXX	1 EA.	AS-BUILT FOR TRAFFIC SIGNAL
860015	814	1 EA.	INSTALL 12 IN. 1 WAY 3 SECTION (R,Y,G) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
860020	814	1 EA.	INSTALL 12 IN. 1 WAY 5 SECTION (R,Y,G,YA,GA) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
860265	814	1 EA.	RELOCATE EXISTING SIGNAL HEAD
861104	810	1 2465 4420 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
861107	810	68 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	810	820 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
862101	810	1 4276 2320 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
862102	815	1 1362 312 L.F.	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
800000	813	3 EA.	RELOCATE EXISTING OVERHEAD SIGN
800000	814	1 EA.	INSTALL 12 IN. 1 WAY 5 SECTION (R,Y,G,YA,GA) (U-TURN ARROW) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
800000	814	1 EA.	INSTALL 8 IN./12 IN. 1 WAY 5 SECTION (8" R,Y,G - 12" YA,GA) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
800000	814	1 EA.	INSTALL 8 IN./12 IN. 1 WAY 5 SECTION (8" R,Y,G - 12" YA,GA) (U-TURN ARROW) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
800000	810	1 11 EA.	INSTALL MICRO-LOOP PROBE SET
800000	XXX	LUMP SUM	REMOVAL OF THE EXISTING TRAFFIC SIGNAL EQUIPMENT

WIRING DIAGRAM



PHASE DIAGRAM



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

ULTIMATE SIGNAL DWG. NO. TS-18

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

REVISIONS	APPROVALS
	ASST. DIVISION CHIEF, TEDD
	ASST. DISTRICT ENGINEER, TRAFFIC
① AUGUST 1996 - WTB MODIFY EXISTING SIGNAL SHA NO. P03005171	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	F.A.P. NO. SEE TITLE SHEET	PLAN SHEET NO.:	SHEET NO.
CHECK BY: D. DODA 7/25/91	S.H.A. NO. P-981-451-385	TS-3161A-01	364 OF 465
SCALE: NONE	COUNTY: PRINCE GEORGES		