F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE TITLE SHEET	372	465

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE FINAL EQUIPMENT INSTALLATION AND ADJUSTMENTS FOR THE ULTIMATE TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD450 (ANNAPOLIS RD.) AND MD 953 (GLENN DALE RD.) IN PRINCE GEORGES COUNTY. MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION IS TO CONTINUE TO OPERATE IN A NEMA SIX PHASE FULLY-TRAFFIC ACTUATED MODE WITH SOME MODIFICATION. THE MODIFICATION IS TO INCLUDE A CONCURRENT PEDESTRIAN MOVEMENT WITH THE MD 450 WESTBOUND THROUGH MOVEMENT, AN ACTUATED PEDESTRIAN MOVEMENT WITH THE MD 953 NORTHBOUND MOVEMENT, AND AN EASTBOUND TO SOUTHBOUND RIGHT TURN OVERLAP.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER AND CABINET ARE TO BE UTILIZED.

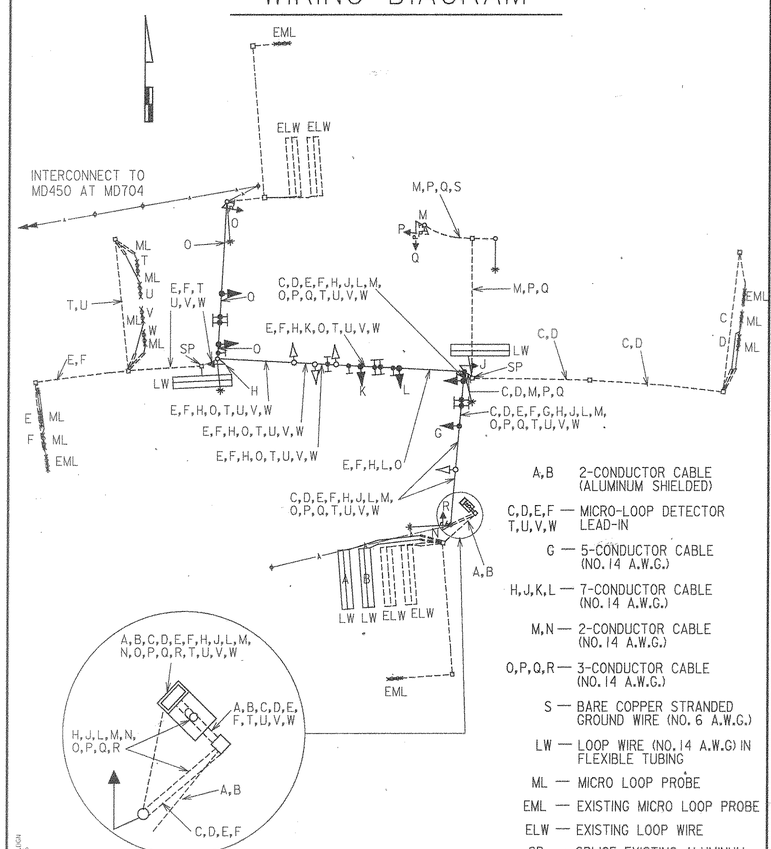
SPECIAL NOTE

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 CONSTRACTOR 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).

WIRING DIAGRAM



A,B — 2-CONDUCTOR CABLE (ALUMINUM SHIELDED)

C,D,E,F T,U,V,W — MICRO-LOOP DETECTOR LEAD-IN

G — 5-CONDUCTOR CABLE (NO. 14 A.W.G.)

H,J,K,L — 7-CONDUCTOR CABLE (NO. 14 A.W.G.)

M,N — 2-CONDUCTOR CABLE (NO. 14 A.W.G.)

O,P,Q,R — 3-CONDUCTOR CABLE (NO. 14 A.W.G.)

S — BARE COPPER STRANDED GROUND WIRE (NO. 6 A.W.G.)

LW — LOOP WIRE (NO. 14 A.W.G) IN FLEXIBLE TUBING

ML — MICRO LOOP PROBE

EML — EXISTING MICRO LOOP PROBE

ELW — EXISTING LOOP WIRE

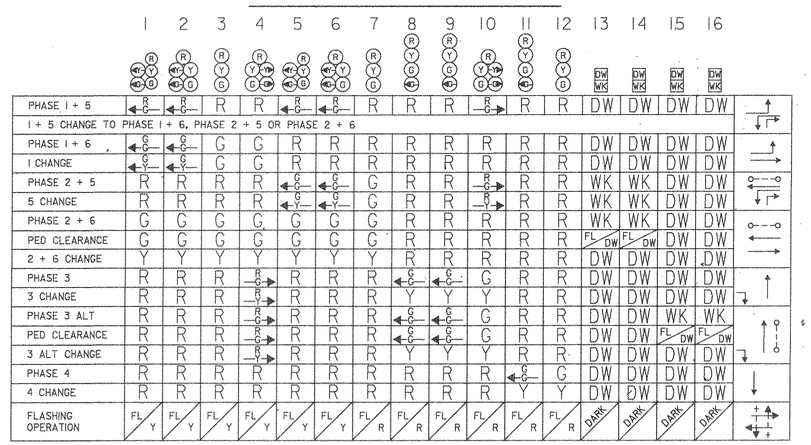
SP — SPLICE EXISTING ALUMINUM SHIELDED CABLE TO NEW LOOP WIRE

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 WIRE MOUNT HARDWARE AND TUNNNEL VISORS
960019	814	1 EA.	12 IN. 1 WAY 4 SECTION (R,Y,G,GA) ADJUSTABLE POLYCARBONATE VEHICLE SIGNAL HEAD WITH SPAN WIRE MOUNT 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 WIRE MOUNT HARDWARE AND TUNNEL VISORS
960049	814	2 EA.	12 IN. 2 WAY 2 SECTION PEDESTRIAN SIGNAL HEAD - PEDESTAL MOUNT
960068	814	2 EA.	12 IN. 1 WAY 2 SECTION PEDESTRIAN SIGNAL HEAD - POLE MOUNT
973023	813	3 S.F.	SHEET ALUMINUM SIGNS - 4 EACH R10-3C (9" X 12")
900000	814	2 EA.	8 IN./12 IN. 1 WAY 5 SECTION (8" R,Y,G - 12" YA,GA) VEHICLE SIGNAL HEAD WITH POLE MOUNTING HARDWARE AND TUNNEL VISORS
900000	810	8 EA.	MICRO-LOOP PROBE SET WITH 1000-FOOT LEAD-IN
900000	817	2 EA.	PEDESTRIAN PUSH BUTTON

PHASE DIAGRAM



EQUIPMENT LIST "B"

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

CATEGORY CODE NO.	SPEC. SECTION	QUANTITY	DESCRIPTION
585443	XXX	1109 L.F.	12 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
585445	XXX	207 L.F.	24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
805011	805	60 L.F.	FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE
805160	805	20 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
813010	813	4 EA.	BAND SIGN TO SIGN SUPPORT
822500	XXX	1 EA.	AS-BUILT FOR TRAFFIC CONTROL
860015	814	1 EA.	INSTALL 12 IN. 1 WAY 3 SECTION (R,Y,G) POLYCARBONATE SIGNAL HEAD - SPAN MOUNT
860019	814	1 EA.	INSTALL 12 IN. 1 WAY 4 SECTION (R,Y,G,GA) 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
860049	814	1 EA.	INSTALL 12 IN. 2 WAY 2 SECTION PEDESTRIAN SIGNAL HEAD - PEDESTAL MOUNT
860068	814	2 L.F.	INSTALL 12 IN. 1 WAY 2 SECTION PEDESTRIAN SIGNAL HEAD - POLE MOUNT
860265	814	3 EA.	RELOCATE EXISTING SIGNAL HEAD
861104	810	104 EA.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
861105	810	365 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G)
861106	810	1090 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
861107	810	30 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	810	878 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
862101	810	1706 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
862102	815	546 L.F.	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
800000	813	8 EA.	RELOCATE EXISTING OVERHEAD SIGN
800000	814	2 L.F.	INSTALL 8 IN./12 IN. 1 WAY 5 SECTION (8" R,Y,G - 12" YA,GA) SIGNAL HEAD - POLE MOUNT
800000	810	8 EA.	INSTALL MICRO-LOOP PROBE SET
800000	817	2 EA.	INSTALL PEDESTRIAN PUSHBUTTON
800000	XXX	LUMP SUM	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

ULTIMATE SIGNAL

DWG. NO. TS - 26

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

REVISION

© AUGUST 1996-WTB MODIFY EXISTING SIGNAL SHA NO. PG9005171

JDM

Ⓑ 2/91 CHANGE SIGNALS TO POLYCARBONATE, ADJUST SPAN SHA NO. 855-2803.039

JT SR ETP TH

Ⓐ INSTALL E/P LEFT TURN FOR NB MD 953

DRE SR DZ ETP TH

APPROVED

ASST. DIVISION CHIEF, TEDD

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 (ANNAPOLIS ROAD) AT MD 953 (GLENN DALE ROAD)

LOG MILE NO. 1604507.9 DATE 9 - 90

DRAWN BY:	N/A	F.A.P. NO.	N/A	PLAN SHEET NO.	SHEET NO.
CHECK BY:	N/A	S.H.A. NO.	N/A		
SCALE:	NONE	COUNTY	PRINCE GEORGES	TS-3083C-GI	372 OF 465

F.E.D. NO. 03-65450.00A
09-26-96 T.BR/JS