

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
806	960022	2 EACH	12 IN., 1-WAY, 3-SECTION (R.Y.G.) SIGNAL HEAD MAST ARM MOUNT
806	960023	2 EACH	12 IN., 1-WAY, 3-SECTION (R.A.YA.G.A.) SIGNAL HEAD POLE MOUNT
813	973023	7.5 S.F.	SHEET ALUMINUM SIGNS 1 EACH - R3-5 SIGN (30 IN. x 36 IN.) "LANE USE CONTROL - LEFT ONLY" POLE MOUNT

EQUIPMENT LIST "B"

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

SPEC. SECTION	ITEM No.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
104	114245	25 L.F.	INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
205	203030	1 C.Y.	TEST PIT EXCAVATION
801	801004	5 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	1 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
810	802501	230 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
810	861107	25 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 AWG)
811	811001	6 EACH	FURNISH AND INSTALL ELECTRICAL MANHOLE
814	860220	2 EACH	INSTALL SIGNAL HEAD - MAST ARM MOUNT
814	860260	2 EACH	INSTALL SIGNAL HEAD - POLE MOUNT
818	818036	1 EACH	FURNISH AND INSTALL STEEL POLE WITH SINGLE 50 FT. MAST ARM
-----	800000	L.S.	REMOVE AND DIPOSE OF EXISTING MATERIAL AND EQUIPMENT
810	861108	815 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 7 CONDUCTOR (NO. 14 AWG)
805	805150	140 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
805	800000	490 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	805160	6 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810	862101	600 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
815	862102	210 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP DETECTOR
810	810011	1 EACH	FURNISH AND INSTALL LOOP DETECTOR SPLICE TO EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE
-----	860265	4 EACH	RELOCATE EXISTING SIGNAL HEAD
-----	800000	3 EACH	RELOCATE EXISTING SIGN ON SPAN WIRE OR MAST ARM
-----	800000	1 EACH	RELOCATE AND INSTALL OPTICOM DETECTOR
813	813015	7.5 S.F.	INSTALL OVERHEAD SIGN

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

CONSTRUCTION DETAILS

- A. REMOVE SIGNAL HEADS AND OPTICOM DETECTOR (RELOCATE OPTICOM DETECTOR TO MAST ARM). REMOVE ELECTRICAL CABLE FROM SIGNAL TO CONTROLLER AS SHOWN FROM SPAN WIRE.
- B. UNCOVER SIGNAL HEADS 1 AND 2 AS SHOWN ON MAST ARM. LEAVE ALL OTHER SIGNALS AND SIGN NO. 15 COVERED. RELOCATE OPTICOM DETECTOR.
- C. INSTALL HANDHOLE.
- D. INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.
- E. INSTALL 3" SCHEDULE 80 PVC ELECTRICAL CONDUIT - SLOTTED.
- F. USE EXISTING HANDHOLE.
- G. USE EXISTING ELECTRICAL CONDUIT.
- H. WIRE CONTROLLER AS NEEDED.
- I. USE EXISTING MAST ARM, AND POLE.
- J. INSTALL 27' STEEL POLE WITH 50' MAST ARM, AND SIGNAL HEADS AS SHOWN. (NOTE: 2-2" PVC 90 DEGREE ANGLE BENDS) (COVER SIGNAL HEAD 24)
- K. INSTALL 1" LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE)
- M. DISCONNECT EXISTING LOOP DETECTOR FROM 2 CONDUCTOR CABLE AND INSTALL NEW LOOP DETECTOR TO EXISTING CABLE.
- N. INSTALL 6' x 30' LOOP DETECTOR, ENCASED IN 1/4 IN. FLEXIBLE TUBING (3,6,3 TURNS) QUADRUPOLE TYPE.
- O. INSTALL 24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOPLINE).
- P. ABANDON LOOP DETECTOR.

PHASE 2  
TEMPORARY TRAFFIC SIGNAL

SS-23



**RUMMEL, KLEPPER & KAHL, LLP**  
CONSULTING ENGINEERS  
81 MOSHER STREET  
BALTIMORE, MARYLAND 21217  
TEL: 410-728-2900 FAX: 410-728-3160

REVISIONS:	APPROVALS:
	<del>CHIEF SIGNAL DESIGN SECTION</del>
	<del>ASST. DISTRICT ENGINEER - TRAFFIC</del>
	<del>CHIEF TRAFFIC ENGINEERING DESIGN DIVISION</del>
	Nov. 1, 1998 Reconstruct Due To New Geometrics. SHA No. SM7685270
	DIRECTOR OFFICE OF TRAFFIC & SAFETY

**MDOT - STATE HIGHWAY ADMINISTRATION**  
*Office of Traffic & Safety*  
**TRAFFIC ENGINEERING DESIGN DIVISION** LOG MILE # 18023513.13

DRAWN BY: DED/SMH  
DES. BY: DK/DLA/SMH  
CHK. BY: BJH

**MD 235 @ EXPLORATION PARK DRIVE**  
SIGNAL PLAN  
COUNTY: ST. MARY'S

DATE: MAY 7, 1999 F.A.P. NO. SEE TITLE SHEET  
SCALE: N.T.S. S.H.A. NO. SEE TITLE SHEET

TS/STD. NO.: 3787A-X2-G11 SHEET NO. 167 OF 241