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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
806	960022	4 EACH	12 IN., 1-WAY, 3-SECTION (R.Y.G.) SIGNAL HEAD MAST ARM MOUNT
806	960023	3 EACH	12 IN., 1-WAY, 3-SECTION (RA.YA.GA.) SIGNAL HEAD MAST ARM MOUNT
806	960027	4 EACH	12 IN., 1-WAY, 4-SECTION (R.Y.G.GA.) SIGNAL HEAD MAST ARM MOUNT
813	973023	219 S.F.	SHEET ALUMINUM SIGNS

- 7 EACH R3-5 SIGN (30 IN. x 36 IN.) - "LANE USE CONTROL - LEFT ONLY" MAST ARM MOUNT
- 4 EACH D3-2 SIGN (VARIABLE x 32 IN.) - (ADVANCE STREET NAME PANEL) MAST ARM MOUNT
- 1 EACH R3-6 SIGN (30 IN. x 36 IN.) (LANE USE CONTROL - LEFT THRU) MAST ARM MOUNT
- 2 EACH R6-1(R) SIGN (36 IN. x 12 IN.) "ONE WAY"

  ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (30 IN. x 51 IN.) POLE MOUNT:

  M3-3 SIGN (24 IN. x 12 IN.) "SOUTH" (FOR INDEPENDENT USE)

  M1-5 SIGN (30 IN. x 24 IN.) "MARYLAND 235" (FOR INDEPENDENT USE)

  M6-1 SIGN (21 IN. x 15 IN.) "DIRECTIONAL ARROW-HORIZONTAL"
- 2 EACH R6-1(R) SIGN (36 IN. x 12 IN.) "ONE WAY"

  ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (40 IN. x 75 IN.) POLE MOUNT:

  M3-3 SIGN (30 IN. x 15 IN.) "SOUTH" (FOR INDEPENDENT USE)

  M1-5 SIGN (48 IN. x 36 IN.) "MARYLAND 235" (FOR INDEPENDENT USE)

  M6-1 SIGN (30 IN. x 24 IN.) "DIRECTIONAL ARROW-HORIZONTAL"

EQUIPMENT LIST "B"

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

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
205	203030	3 C.Y.	TEST PIT EXCAVATION
———	500000	670 L.F.	FURNISH AND INSTALL 12" WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALKS).
———	500000	197 L.F.	FURNISH AND INSTALL 24" WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
801	801004	14 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	3 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
805	800000	105 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	805150	175 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
805	805160	95 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
806	831010	1 EACH	FURNISH AND INSTALL 250 WATT H.P.S. LAMP AND LUMINAIRE
810	800000	6 EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN
810	802501	755 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
810	861104	6155 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED
810	861105	572 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
810	861106	1205 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO.14 AWG)
810	861107	110 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
810	861108	2432 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
810	861116	500 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG)
810	862101	5218 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)
811	811001	4 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813	813015	219 S.F.	INSTALL OVERHEAD SIGN
814	860220	11 EACH	INSTALL SIGNAL HEADS - MAST ARM MOUNT
815	862102	1364 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
818	800000	2 EACH	FURNISH AND INSTALL 27 FT. STEEL POLE WITH A SINGLE 70 FT. MAST ARM
818	818036	1 EACH	FURNISH AND INSTALL 27 FT. STEEL POLE WITH A SINGLE 50 FT. MAST ARM
818	866103	1 EACH	FURNISH AND INSTALL 15 FT. LIGHTING ARM ON SIGNAL STRUCTURE
———	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
———	800000	1220 L.F.	FURNISH AND INSTALL ELECTRICAL OPTICOM DETECTOR CABLE - 4 CONDUCTOR (NO.20 AWG)
———	873001	L.S.	REMOVE EXISTING SIGNAL EQUIPMENT TO BE SALVAGED
———	800000	1 EACH	RELOCATE AND INSTALL OPTICOM DETECTOR
———	800000	7 EACH	UNCOVER SIGNAL HEAD
———	860265	3 EACH	RELOCATE EXISTING SIGNAL HEAD

CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH 50' MAST ARM, TRAFFIC SIGNAL HEADS AND SIGNS AS NOTED (NOTE: 1 - 2" PVC 90 DEGREE ANGLE CONDUIT BENDS).

B. USE EXISTING CONDUIT.

C. INSTALL 27' STEEL POLE WITH 70' MAST ARM, 15' LIGHTING ARM AND LUMINAIRE, TRAFFIC SIGNAL HEADS, RELOCATE OPTICOM DETECTOR, AND SIGNS AS SHOWN (NOTE: 1 - 3" PVC 90 DEGREE ANGLE CONDUIT BENDS).

D. USE EXISTING HANDHOLE.

E. ABANDON EXISTING LOOP DETECTOR.

F. FURNISH AND INSTALL 12" WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK).

G. INSTALL 6' x 30' LOOP DETECTOR, ENCASED IN 1/4" FLEXIBLE TUBING (3,6,3 TURNS) QUADRUPOLE TYPE.

H. INSTALL 6'x6' LOOP DETECTOR (4 TURNS).

I. INSTALL HANDHOLE.

J. INSTALL 1" LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).

K. INSTALL 2" SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

L. INSTALL 3" SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.

M. FURNISH AND INSTALL 24" WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).

N. REMOVE AND DISPOSE OF EXISTING SPAN WIRE, SIGNAL HEADS, AND SIGNS.

O. REMOVE AND SALVAGE EXISTING WOOD POLE.

P. INSTALL MICRO-LOOP PROBE SET WITH 1000 FT LEAD-IN.

Q. REWIRE EXISTING OPTICOM DETECTOR.

R. WIRE EXISTING PEDESTIAL POLE AND UNCOVER SIGNAL HEADS.

S. REMOVE SPAN WIRE AND CABLE.

T. RELOCATE SIGNAL HEADS, AND SIGNS THEN SIGNAL HEAD 7.

U. REWIRE EXISTING CONTROLLER.

PHASE 3 AND FINAL
SIGNAL PLAN

SS-9

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REVISIONS:

1 Nov. 1, 1998 Reconstruct Due To New Geometrics. SHA No.: SM7685270

APPROVALS:

CHIEF SIGNAL DESIGN SECTION

ASST. DISTRICT ENGINEER TRAFFIC

CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR OFFICE OF TRAFFIC & SAFETY

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

LOG MILE # 18023514.97

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

MD 235 @ MD 237 / MAPLE RD.
SIGNAL PLAN

COUNTY: ST. MARY'S

DATE: MAY 7, 1999
SCALE: N.T.S.

F.A.P. NO. SEE TITLE SHEET
S.H.A. NO. SEE TITLE SHEET

TS/STD. NO.: 9121-G12

SHEET NO. 153 OF 241