

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
806	960015	6 EACH	12 IN., 1-WAY, 3-SECTION (R.Y.G.) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
806	960017	4 EACH	12 IN., 1-WAY, 3-SECTION (R.A.YA.GA.) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
806	960019	2 EACH	12 IN., 1-WAY, 4-SECTION (R.Y.G.GA.) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
806	960048	2 EACH	12 IN., 1-WAY, 2-SECTION PEDESTRIAN SIGNAL HEAD PEDESTAL MOUNT
806	960049	2 EACH	12 IN., 2-WAY, 2-SECTION PEDESTRIAN SIGNAL HEAD PEDESTAL MOUNT
817	965001	2 EACH	PEDESTRIAN PUSHBUTTON AND SIGN
816	971017	1 EACH	EIGHT PHASE, FULLY-ACTUATED TRAFFIC SIGNAL CONTROLLER IN A NEMA SIZE '6' BASE MOUNTED SYSTEM READY CABINET
816	900000	7 EACH	FOUR CHANNEL LOOP DETECTOR AMPLIFIERS (DELAY OUTPUT)
813	973023	37.5 SF	SHEET ALUMINUM SIGNS - 4 EACH R3-5 SIGN (30"x36") *LANE USE CONTROL - LEFT ONLY* SPAN WIRE MOUNT - 1 EACH R3-6 SIGN (30"x36") *LANE USE CONTROL - LEFT AND THRU* SPAN WIRE 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
114245	114245	160 L.F.	FURNISH AND INSTALL 24 IN. WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
205	203030	1 C.Y.	TEST PIT EXCAVATION
801	801004	3 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	5 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
805	800000	788 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	800000	45 L.F.	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	805160	45 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
807	807205	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
810	802501	520 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
810	861104	2310 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED
810	861107	180 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
810	861108	822 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
810	862101	4076 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
811	811001	11 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
814	860015	6 EACH	INSTALL 12 IN. 1 WAY 3 SECTION (R.Y.G.) SIGNAL HEAD SPAN MOUNT POLYCARBONATE.
814	860048	2 EACH	INSTALL 12 IN. 1 WAY 2 SECTION PEDESTRIAN SIGNAL HEAD PEDESTAL MOUNT
814	860049	2 EACH	INSTALL 12 IN. 2 WAY 2 SECTION PEDESTRIAN SIGNAL HEAD PEDESTAL MOUNT
814	860017	4 EACH	INSTALL 12 IN. 1 WAY 3 SECTION (R.A.YA.GA.) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
814	860019	2 EACH	INSTALL 12 IN. 1 WAY 4 SECTION (R.Y.G.GA.) SIGNAL HEAD SPAN MOUNT POLYCARBONATE
815	862102	1304 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
816	871117	1 EACH	INSTALL EIGHT-PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNT
817	865201	2 EACH	INSTALL PUSHBUTTON AND SIGN
818	818010	4 EACH	FURNISH AND INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH T-BASE AND ANCHOR BOLTS
800000	800000	420 L.F.	FURNISH AND INSTALL ELECTRICAL OPTICOM CABLE - 4 CONDUCTOR (NO. 20 AWG)
800000	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
873001	873001	L.S.	REMOVE EXISTING SIGNAL EQUIPMENT TO BE SALVAGED
800000	800000	2 EACH	RELOCATE AND INSTALL OPTICOM DETECTOR
* 800000	800000	L.S.	DELIVERY OF SALVAGED MATERIALS
813	813015	37.5 S.F.	INSTALL OVERHEAD SIGN
800000	800000	3 EACH	FURNISH AND INSTALL 40' CLASS 2 WOOD POLE WITH BACK GUY'S
869102	869102	620 L.F.	FURNISH AND INSTALL 3/8" SPAN WIRE
810010	810010	30 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 AWG)
805	805023	25 L.F.	FURNISH AND INSTALL 2" ELECTRICAL CONDUIT - PVC RISER.
805	805026	35 L.F.	FURNISH AND INSTALL 3" ELECTRICAL CONDUIT - PVC RISER.
805	800000	155 L.F.	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
805	800000	30 L.F.	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
800000	800000	1 EACH	FURNISH AND INSTALL 2" WEATHER HEAD.
800000	800000	1 EACH	FURNISH AND INSTALL 3" WEATHER HEAD.
800000	800000	6 EACH	COVER SIGNAL HEADS

* NON FEDERAL AID ITEM

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7941 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY	DESCRIPTION
1	STEEL MAST ARM POLE WITH 50 FT. MAST ARM
1	STEEL MAST ARM POLE WITH 60 FT. MAST ARM
1	TRAFFIC SIGNAL CONTROLLER AND CABINET.
1	STEEL MAST ARM POLE WITH TWIN 50 FT. MAST ARMS

- NOTES:
1. THE CONTRACTOR SHALL NOTIFY THE SHA AT 410-787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.
 2. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION DETAILS

- INSTALL 40' CLASS 2 WOOD POLE, 1-3" PVC RISER WITH 1-3" WEATHER HEAD AND BACK GUY'S AS DIRECTED BY THE ENGINEER.
- INSTALL 14' BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEADS (COVER SIGNAL HEADS) PUSH BUTTON AND SIGNS AS SHOWN (NOTE: 1 - 2" PVC 90 DEGREE ANGLE CONDUIT BEND).
- INSTALL 14' BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD (COVER SIGNAL HEADS) AS SHOWN (NOTE: 1 - 2" PVC 90 DEGREE ANGLE CONDUIT BEND).
- INSTALL NEMA SIZE '6' CABINET (NOTE: 2 - 4" AND 2-2" 90 DEGREE ANGLE CONDUIT BENDS AND CONTROL AND DISTRIBUTION FOR UNDERGROUND POWER FEED B13) RELOCATE THE TERMINAL BLOCK FOR THE AUTOSCOPE THIS WILL BE REWIRED IN PHASE 3 OF CONSTRUCTION.
- INSTALL 6' x 30' LOOP DETECTOR, ENCASED IN 1/4" FLEXIBLE TUBING (3,6,3 TURNS) QUADRUPLE TYPE.
- INSTALL HANDHOLE.
- INSTALL 1" LIQUID - TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- INSTALL 2" SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL DOUBLE SPAN, SIGNAL HEADS, ELECTRICAL CABLE, AND SIGNS. LOCATE AS DIRECTED BY THE ENGINEER.
- INSTALL 4" SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- REMOVE AND SALVAGE EXISTING MAST ARM, POLE, SIGNAL HEADS AND SIGNS.
- REMOVE AND DISPOSE OF PEDESTAL POLE AND SIGNAL HEADS.
- REMOVE AND SALVAGE EXISTING CABINET.
- REMOVE EXISTING HANHOLE.
- REMOVE AND DISPOSE OF EXISTING MAST ARM, LIGHTING ARM AND LUMINAIRE, SIGNAL HEADS, SIGNS, AND RELOCATE OPTICOM DETECTORS ONTO THE NEW TEMPORARY SPAN WIRE.
- INSTALL 24" WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
- INSTALL SPAN WIRE AND SIGNAL CABLE AS DIRECTED BY THE ENGINEER.
- ABANDON EXISTING LOOP DETECTOR.
- INSTALL 3" SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- FURNISH AND INSTALL 1-2" PVC RISER WITH 1-2" WEATHER HEAD.
- INSTALL 4" SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.

PHASE 1
TEMPORARY TRAFFIC SIGNAL

SS-12

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REVISIONS:	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 # 18023514.45

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

MD 235 @ MACARTHUR BLVD.
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.: 2320D-X1-G12 SHEET NO. 156 OF 241