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	[2] 4 ~~3~~ 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	960048	1 EACH	12 IN., 1-WAY, 2-SECTION PEDESTRIAN SIGNAL HEAD PEDESTAL MOUNT
817	965001	1 EACH	PEDESTRIAN PUSHBUTTON AND SIGN
813	973023	[2] 69 ~~50~~ S.F.	SHEET ALUMINUM SIGNS
		[2] - 4 ~~3~~ EACH	R3-5 SIGN (30 IN. x 36 IN.) - "LANE USE CONTROL - LEFT ONLY" MAST ARM MOUNT
		[2] - 1 ~~2~~ EACH	D3-2 SIGN (VARIABLE x 16 IN.) - (ADVANCE STREET NAME PANEL) MAST ARM MOUNT
		DELETE [2] ~~- 1 EACH~~	~~R3-6 SIGN (30 IN. x 36 IN.) (LANE USE CONTROL - LEFT THRU) MAST ARM MOUNT~~
		- 1 EACH	R6-1(R) SIGN (36 IN. x 12 IN.) "ONE WAY"
		[2] BACKGROUND (48 IN. x 75 IN.)	ONE PIECE SHIELD ASSEMBLY ON A BLACK ~~BACKGROUND (30 IN. x 51 IN.)~~ POLE MOUNT:
		[2] M3-1 SIGN (30 IN. x 15 IN.) "NORTH"	~~M3-3 SIGN (24 IN. x 12 IN.) "SOUTH"~~ (FOR INDEPENDENT USE) (48 IN. x 36 IN.)
		[2] M1-5 SIGN	~~(30 IN. x 24 IN.)~~ "MARYLAND 235" (FOR INDEPENDENT USE) (30 IN. x 24 IN.)
		[2] M6-1 SIGN	~~(12 IN. x 15 IN.)~~ "DIRECTIONAL ARROW-HORIZONTAL"

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
205	203030	2 C.Y.	TEST PIT EXCAVATION
[2] ---	585414 ~~500000~~	435 ~~77~~ L.F.	FURNISH AND INSTALL 12" WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK).
[2] ---	585416 ~~500000~~	170 ~~155~~ L.F.	FURNISH AND INSTALL 24" WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).
801	801004	6 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	2 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
805	800000	75 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
[2] 805	805115	90 ~~75~~ L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
805	800000	5 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	805160	30 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
[2] 810	800000	3 ~~6~~ EACH	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH ~~1000~~ 1325 FT. LEAD-IN
[2] 810	802501	310 ~~180~~ L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
[2] 810	861104	4240 ~~2179~~ L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED
[2] 810	861105	425 ~~335~~ L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
[2] 810	861106	430 ~~345~~ L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)
[2] 810	861107	85 ~~30~~ L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
[2] 810	861108	1800 ~~1457~~ L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
810	861116	395 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
[2] 810	862101	1780 ~~1885~~ L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
811	811001	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
[2] 813	813015	69 ~~50~~ S.F.	INSTALL OVERHEAD SIGN
[2] 814	860220	7 ~~6~~ EACH	INSTALL SIGNAL HEADS - MAST ARM MOUNT
814	860048	1 EACH	INSTALL 12 INCH 1-WAY 2 SECTION PEDESTRIAN SIGNAL HEAD PEDESTAL MOUNT
[2] 815	862102	610 ~~535~~ L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
817	865201	1 EACH	INSTALL PUSHBUTTON AND SIGN
818	818010	1 EACH	FURNISH AND INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH T-BASE AND ANCHOR BOLTS
DELETE [2] ~~818~~	~~818041~~	~~2 EACH~~	~~FURNISH AND INSTALL 27 FT. STEEL POLE WITH A SINGLE 60 FT. MAST ARM~~
818	866103	1 EACH	FURNISH AND INSTALL 15 FT. LIGHTING ARM ON SIGNAL STRUCTURE
—	800000	1 EACH	INSTALL RELOCATED OPTICOM DETECTOR REMOVED FROM SPAN WIRE
—	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
[2] —	800000	1250 ~~400~~ L.F.	FURNISH AND INSTALL ELECTRICAL OPTICOM CABLE - 4 CONDUCTOR (NO.20 AWG)
—	873001	L.S.	REMOVE EXISTING SIGNAL EQUIPMENT TO BE SALVAGED
[2] 805	805011	12 ~~38~~ L.F.	FURNISH AND INSTALL 1" GALVANIZED STEEL ELECTRICAL CONDUIT FOR DETECTOR SLEEVE.
—	860265	4 EACH	RELOCATE EXISTING SIGNAL HEAD.
—	800000	3 EACH	RELOCATE EXISTING SIGN ON SPAN WIRE OR MAST ARM.
—	800000	5 EACH	UNCOVER SIGNAL HEADS
NEW [2] 818	800000	1 EACH	FURNISH AND INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT. & 70 FT. MAST ARMS

CONSTRUCTION DETAILS

TWIN 50'/70' MAST ARM.

[2] A. INSTALL 27' STEEL POLE WITH ~~60' MAST ARM,~~ 15' LIGHTING ARM AND LUMINAIRE, TRAFFIC SIGNAL HEADS, OPTICOM DETECTOR, AND SIGNS AS SHOWN (NOTE: 1-3" PVC 90 DEGREE ANGLE BEND).

B. INSTALL 14' BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SIGN AS SHOWN (NOTE: 1 - 2" PVC 90 DEGREE ANGLE BEND).

C. INSTALL 6'x30' LOOP DETECTOR, (3-6-3 TURNS) ENCASED IN 1/4" FLEXIBLE TUBING, QUADRUPOLE TYPE.

D. INSTALL 6'x6' LOOP DETECTOR, 4 TURNS (SAMPLING STATION).

[2] E. INSTALL MICRO-LOOP PROBE SET WITH ~~1000~~ 1325 FT. LEAD-IN.

F. INSTALL HANDHOLE.

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

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

I. INSTALL 3" SCHEDULE 80 ELECTRICAL CONDUIT - BORED.

J. INSTALL 1" GALVANIZED STEEL ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).

K. REMOVE AND SALVAGE EXISTING WOOD POLE, RISER AND ALL SIGNAL EQUIPMENT.

L. REMOVE AND SALVAGE EXISTING SIGNAL HEADS, SIGNS, CABLE NOTE: THE OPTICOM DETECTOR WILL BE RELOCATED TO THE NEW MAST ARM AS SHOWN ON THE PLANS.

M. REMOVE EXISTING HANDHOLE.

N. USE EXISTING HANDHOLE.

O. USE EXISTING CONDUIT.

P. REWIRE EXISTING CONTROLLER.

Q. INSTALL 12" WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALKS).

R. INSTALL 24" WHITE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE).

[2] S. UNCOVER SIGNAL HEADS ~~1 AND 5.~~ AS DIRECTED BY THE ENGINEER.

T. UNCOVER PEDESTRIAN SIGNAL HEADS

[2] U. INSTALL 3" SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED

PHASE 3 AND FINAL
TRAFFIC SIGNAL

SS-26

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REVISIONS:

[2] REDLINE REVISION NO. 2 DUE TO NEW GEOMETRICS SHA No.: SM7685270 / / /2000

(A) 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 # 180235I3.13

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

MD 235 @ EXPLORATION PARK DRIVE
SIGNAL PLAN

COUNTY: ST. MARY'S

DATE: ARRIL , 2000
SCALE: N.T.S.

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

TS/STD. NO.: 3787A-GI2

SHEET NO. 170 OF 241

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