

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE STATE HIGHWAY ADMINISTRATION:

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
817	900000	3 EACH	FOUR-CHANNEL LOOP DETECTOR AMPLIFIER (DELAY OUTPUT)
806	960022	6 EACH	12 IN. 1 WAY 3 SECTION (R,Y,G) TRAFFIC SIGNAL HEAD - MAST ARM MOUNT
806	960023	2 EACH	12 IN. 1 WAY 3 SECTION (RA,YA,GA) SIGNAL HEAD - MAST ARM MOUNT
806	960032	2 EACH	12 IN. 1 WAY 1 SECTION (Y) SIGNAL HEAD - MAST ARM MOUNT
806	960048	6 1 X EACH	12 IN. 1 WAY 2 SECTION (DON'T WALK, WALK) PEDESTRIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET - PEDESTAL POLE MOUNT
806	960068	1 EACH	12 IN. 1 WAY 2 SECTION (DON'T WALK, WALK) PEDESTRIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET - POLE MOUNT
6 X	965001	1 EACH	PEDESTRIAN PUSHBUTTON AND SIGN - 4 EACH - R10-4111
816	971017	1 EACH	EIGHT PHASE, FULLY ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH TELEMETRY MODULE, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
816	971041	1 EACH	AUXILIARY CABINET WITH TERMINAL STRIP - POLE MOUNT
813	973023	190 S.F.	SHEET ALUMINUM SIGNS: - 1 EACH "SIGNAL AHEAD, PREPARE TO STOP WHEN FLASHING" SIGN (120 IN. X 60 IN.) MAST ARM MOUNT - 1 EACH E5-1(4) MODIFIED (60 IN. X 84 IN.) - M3-4 "WEST" - M1-5 "MARYLAND 175" - M6-1 "DIRECTIONAL ARROW" POLE MOUNT - 3 EACH R3-5(L) SIGN (30 IN. X 36 IN.) (LANE USE CONTROL - LEFT ONLY) MAST ARM MOUNT - 1 EACH R3-1 SIGN (30 IN. X 30 IN.) (NO RIGHT TURN (SYMBOL)) MAST ARM MOUNT - 1 EACH W9-2(4) SIGN (30 IN. X 42 IN.) (LANE ENDS - MERGE LEFT) POLE MOUNT - 1 EACH R3-3B SIGN (30 IN. X 30 IN.) (NO LEFT TURN OR U-TURN (SYMBOL)) MAST ARM MOUNT - 1 EACH E5-1(4) (60 IN. X 84 IN.) - M3-2 "EAST" - M1-5 "MARYLAND 175" - M6-2 (R) "DIRECTIONAL ARROW" POLE MOUNT - 1 EACH R6-1(L) SIGN (36 IN. X 12 IN.) (ONE WAY) POLE MOUNT - 1 EACH R3-6(L) SIGN (30 IN. X 36 IN.) (LANE USE CONTROL - LEFT AND THROUGH) MAST ARM MOUNT - 1 EACH D3-2 SIGN (VARIABLE X 16 IN.) (ADVANCE STREET NAME PANEL) MAST ARM MOUNT - 1 EACH R3-5(R) SIGN (30 IN. X 36 IN.) (LANE USE CONTROL - RIGHT ONLY) MAST ARM MOUNT

GENERAL NOTES

- FINAL GEOMETRICS AND GRADES SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT.
- LOOP DETECTORS AND CONDUITS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO VERIFY THE LOCATION OF ALL UTILITIES.
- PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH S.H.A. STANDARDS. ALL OTHER PAVEMENT MARKINGS WILL BE INSTALLED AS PART OF THE HIGHWAY CONTRACT.
- WHEN INSTALLING THE SIGNAL HEADS, THE CONTRACTOR MUST LEAVE ENOUGH CABLE TO RELOCATE THEM FOR MAINTENANCE OF TRAFFIC.
- ALL LUMINAIRES MUST BE FULL CUT OFF.
- REFER TO PAGES SN 2.1 THROUGH SN 2.10 FOR ADDITIONAL SIGNING AND PAVEMENT MARKING DETAILS.
- ALL SIGNAL EQUIPMENT IS TO BE INSTALLED TO FINAL GRADE.

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EQUIPMENT LIST "B"

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

SPEC. SECTION	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
205	203030	4 C.Y.	TEST PIT EXCAVATION
SP-555	585414	6 140 250 L.F.	12 IN. WHITE THERMOPLASTIC MARKING TAPE
SP-555	585416	150 L.F.	24 IN. WHITE THERMOPLASTIC MARKING TAPE
805	800000	6 1100 1120 L.F.	FURNISH & INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	800000	60 L.F.	FURNISH & INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
816	800000	1 EACH	FURNISH & INSTALL PHOTO-CELL
810	800000	3 EACH	FURNISH & INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
818	800000	1 EACH	FURNISH & INSTALL STEEL POLE WITH TWIN 50 AND 60 FOOT MAST ARMS
801	801004	6 16 X C.Y.	FURNISH & INSTALL CONCRETE FOR SIGNAL FOUNDATION
810	802501	6 690 X L.F.	FURNISH & INSTALL BARE STRANDED COPPER GROUND WIRE (NO. 6 AWG)
805	805115	70 L.F.	FURNISH & INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
805	805118	270 L.F.	FURNISH & INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
805	805160	50 L.F.	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
2 007	007205	1 EACH	FURNISH & INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
811	811001	14 EACH	FURNISH & INSTALL ELECTRICAL HANDHOLE
813	813015	190 S.F.	INSTALL OVERHEAD SIGN
818	818036	2 EACH	FURNISH & INSTALL STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
---	822002	330 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 12 PAIR JELLY-FILLED COMMUNICATION CABLE (NO. 19 AWG)
806	831010	2 EACH	FURNISH & INSTALL 250 WATT H.P.S. LAMP AND LUMINAIRE
804	837001	6 4 X EACH	FURNISH & INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
814	860022	6 EACH	INSTALL 12 IN. 1 WAY 3 SECTION (R,Y,G) SIGNAL HEAD - MAST ARM MOUNT
814	860032	2 EACH	INSTALL 12 IN. 1 WAY 1 SECTION (Y) SIGNAL HEAD - MAST ARM MOUNT
814	860048	6 2 X EACH	INSTALL 12 IN. 1 WAY 2 SECTION (DON'T WALK, WALK) PEDESTRIAN SIGNAL HEAD - PEDESTAL MOUNT
814	860068	1 EACH	INSTALL 12 IN. 1 WAY 2 SECTION (DON'T WALK, WALK) PEDESTRIAN SIGNAL HEAD - POLE MOUNT
814	860023	2 EACH	INSTALL 12 IN. 1 WAY 3 SECTION (RA,YA,GA) SIGNAL HEAD - MAST ARM MOUNT
810	861104	2625 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED
6 X	861105	655 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.)
810	861106	125 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
810	861107	6 270 X L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
810	861108	1240 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
810	861116	250 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
810	861117	10 L.F.	FURNISH & INSTALL ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)
810	862101	2600 L.F.	FURNISH & INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
815	862102	775 L.F.	FURNISH & INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
6 X	865201	1 EACH	INSTALL PEDESTRIAN PUSHBUTTON AND SIGN
818	866104	2 EACH	FURNISH & INSTALL 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
818	868003	6 1 X EACH	FURNISH & INSTALL 10 FT. BREAKAWAY PEDESTAL POLE
816	871041	1 EACH	INSTALL AUXILIARY CABINET WITH TERMINAL STRIP - POLE MOUNT
816	871117	1 EACH	INSTALL NEMA SIZE '6' CABINET - BASE MOUNT (NOTE: 2-4 IN. AND 2-2 IN. 90 DEGREE ANGLE CONDUIT BENDS AND CONTROL AND DISTRIBUTION FOR UNDERGROUND FEED) - B-6 POWER CONNECTION

SS-06

REVISIONS: 1 REVISION NO. 1 4/12/99 2 NEW SHEET TO REPLACE SHEET NO. 205 5/13/99 3 REVISION NO. 2 6 REVISION NO. 6 / /		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 # 130I7503.55	
DRAWN BY: BSH DES. BY: BSH CHK. BY: DK/DLA		WB MD 175 RAMP A @ SNOWDEN RIVER PARKWAY GENERAL INFORMATION COUNTY: HOWARD		DATE: NOVEMBER, 1998 F.A.P. NO. SCALE: N.T.S. S.H.A. NO. H07645271	
		TS/STD. NO.: 3819		SHEET NO. 205A OF 232	