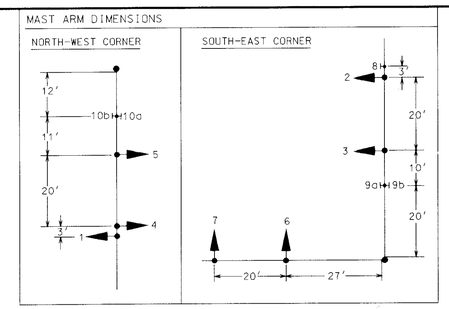
A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
	1 EACH	EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WITH THREE (3) 4-CHANNEL LOOP DETECTOR AMPLIFIERS AND BATTERY BACKUP
	1 EACH	COMBINATION 12"/ 8" ONE WAY, FIVE SECTION (12" YA,GA, 8" R,Y,G) SIGNAL HEAD, MAST ARM MOUNTED HARDWARE
	1 EACH	12" ONE WAY, FIVE SECTION (R,YA,GA,R,Y,G) SIGNAL HEAD, MAST ARM MOUNTED HARDWARE
	5 EACH	12" ONE WAY, THREE SECTION (R,Y,G) SIGNAL HEAD, MAST ARM MOUNTED HARDWARE
	209.8 S.F.	2 EACH D3-2 SIGN, "(LEFT ARROW) Cindy Lane", 16" x Var., MAST ARM MOUNTED HARDWARE
		2 EACH D3-2 SIGN, "Cindy Lane (RIGHT ARROW)", 16" x Var., MAST ARM MOUNTED HARDWARE
		4 EACH W3-3 "NEW" SIGN W/ FLAGS, 48" x 48", POLE MOUNTED HARDWARE
		1 EACH W3-3 "NEW" SIGN W/ FLAGS, 36" x 36", POLE POLE MOUNTED HARDWARE
		1 EACH R10-12 SIGN, "LEFT TURN YIELD ON GREEN BALL", 36" x 42", MAST ARM MOUNTED HARDWARE
		1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "WEST, MARYLAND 214, (RIGHT ARROW)", 30" x 51", MAST ARM POLE MOUNTED HARDWARE
		1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "EAST, MARYLAND 214, (LEFT ARROW)", 48" x 75", MAST ARM POLE MOUNTED HARDWARE
		4 EACH D3-3 SIGN, "Cindy Lane, NEXT SIGNAL", 24" x 72", WOOD POLE MOUNTED HARDWARE
	1 EACH	27' STEEL MAST ARM POLE WITH 60' MAST ARM W/ FOUR (4) 2" x 90" ANCHOR BOLTS
	1 EACH	27' STEEL MAST ARM POLE WITH TWIN MAST ARMS (60' & 50' RESPECTIVITY) W/ FOUR (4) 2" x 90" ANCHOR BOLTS

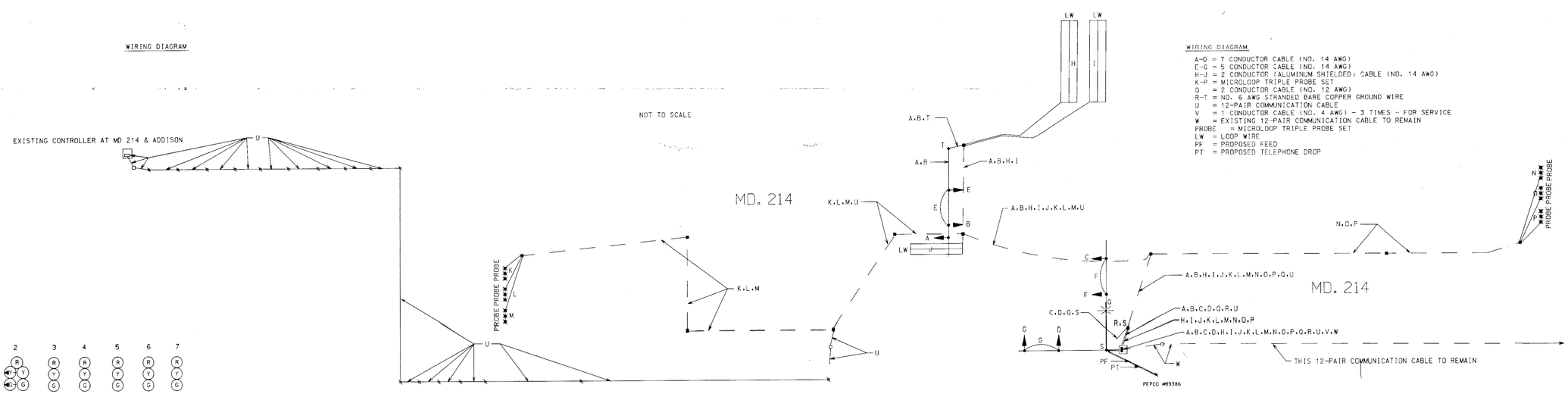
B. EQUIPMENT TO BE SUPPLIED AND/ OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
1003	1 EACH	MOBILIZATION FOR ASSIGNMENTS OUTSIDE OF CONTRACT AREA
2001	1 C.Y.	TEST PIT EXCAVATION
5004	160 L.F.	F & I 24" WHITE PREFORMED PAVEMENT MARKING TAPE
6001	270 S.F.	F & I 4" CONCRETE SIDEWALK
6002	20 L.F.	F & I STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN, 8" DEPTH
6009	50 L.F.	F & I MONOLITHIC MEDIAN 4'0" WIDE TYPE A-1
6010	20 L.F.	F & I DEPRESSED CURB AND GUTTER
8001	8 C.Y.	F & I CONCRETE FOR SIGNAL FOUNDATION
8008	1 EACH	F & I 3" WEATHERHEAD
8011	7 EACH	INSTALL SIGNAL HEAD (ANY TYPE)
8017	6 EACH	F & I MICROLOOP TRIPLE PROBE SET W/ 1,000 FT. LEAD-IN
8020	1 EACH	INSTALL CONTROLLER CABINET - BASE MOUNT
8021	590 L.F.	F & I SAWCUT FOR SIGNAL (LOOP DETECTOR)
8022	65 L.F.	F & I 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8023	80 L.F.	F & I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8024	875 L.F.	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8025	70 L.F.	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8027	160 L.F.	F & I 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8028	150 L.F.	F & I 3" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8030	50 L.F.	F & I 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8031	190 L.F.	F & I 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8033	11 EACH	F & I ELECTRICAL HANDHOLE
8034	3 EACH	F & I GROUND ROD - 3/4" x 10'
8038	2,840 L.F.	F & I 12-PAIR COMMUNICATION CABLE, SELF SUPPORTING (OVERHEAD)
8040	1,480 L.F.	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8041	800 L.F.	F & I ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8044	100 L.F.	F & I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8045	1,000 L.F.	F & I ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8046	80 L.F.	F & I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
8049	60 L.F.	F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8050	90 L.F.	F & I ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 AWG) - THHN/THWN
8052	130 L.F.	F & I WOOD SIGN SUPPORTS - 4" x 6"
8053	156.6 S.F.	INSTALL GROUND MOUNTED SIGN
8054	53.2 S.F.	INSTALL OVERHEAD SIGN
8056	1 EACH	F & I 250 WATT HPS LUMINAIRE W/ PHOTOCELL
8057	1 EACH	F & I 20' LIGHTING BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
8062	1 EACH	DITITIZE EXISTING PLANS AND AS-BUILT TRAFFIC CONTROL DEVICE
8067	30 L.F.	F & I 3" ELECTRICAL CONDUIT - PVC RISER
8068	30 L.F.	F & I 2" ELECTRICAL CONDUIT - PVC RISER
8070	1 EACH	F & I CONTROL AND DISTRIBUTION OF EQUIPMENT (120 /240 V, 1 PHASE, 3 WIRE SYST)
8079	1 EACH	INSTALL 27' STEEL MAST ARM POLE AND SINGLE 60' MAST ARM
8080	1 EACH	INSTALL 27' STEEL MAST ARM POLE AND TWIN MAST ARMS (60' & 50')
8092-A	1 LUMP SUM	PULL BACK COMMUNICATION CABLE FROM MD 214 & ADDISON ROAD TO MD 214 AND CINDY LANE

MAST ARM DIMENSIONS



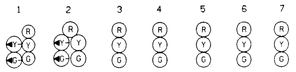
WIRING DIAGRAM



WIRING DIAGRAM

A-D = 7 CONDUCTOR CABLE (NO. 14 AWG)
E-G = 5 CONDUCTOR CABLE (NO. 14 AWG)
H-J = 2 CONDUCTOR (ALUMINUM SHIELDED) CABLE (NO. 14 AWG)
K-P = MICROLOOP TRIPLE PROBE SET
Q = 2 CONDUCTOR CABLE (NO. 12 AWG)
R-T = NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
U = 12-PAIR COMMUNICATION CABLE
V = 1 CONDUCTOR CABLE (NO. 4 AWG) - 3 TIMES - FOR SERVICE
W = EXISTING 12-PAIR COMMUNICATION CABLE TO REMAIN
PROBE = MICROLOOP TRIPLE PROBE SET
LW = LOOP WIRE
PF = PROPOSED FEED
PT = PROPOSED TELEPHONE DROP

PHASE CHART



	1	2	3	4	5	6	7
PHASE 1 & 6	◄G - G	◄G - G	G	R	R	R	R
1 CHANGE	◄Y - G	◄Y - G	G	R	R	R	R
Phase 2 & 6	G	G	G	G	G	R	R
2 & 6 Change	Y	Y	Y	Y	Y	R	R
Phase 4 & 8	R	R	R	R	R	G	G
4 & 8 Change	R	R	R	R	R	Y	Y
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

REVISIONS	APPROVALS
	ASST. DIVISION CHIEF, TEDD
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

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

MD. 214 and CINDY LANE

SIGNAL NO. 03004002.16 DATE AUGUST, 1998

DRAWN BY: W Mahalu
DES. BY: W Mahalu
CHECK BY:
SCALE: NONE

F.A.P. NO. AC-STPG-000S(587)E
S.H.A. NO. AW 276 A5E/B5E/H4SE
COUNTY PRINCE GEORGE'S

PLAN SHEET NO. TS-3829

SHEET NO. 1 OF 1

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