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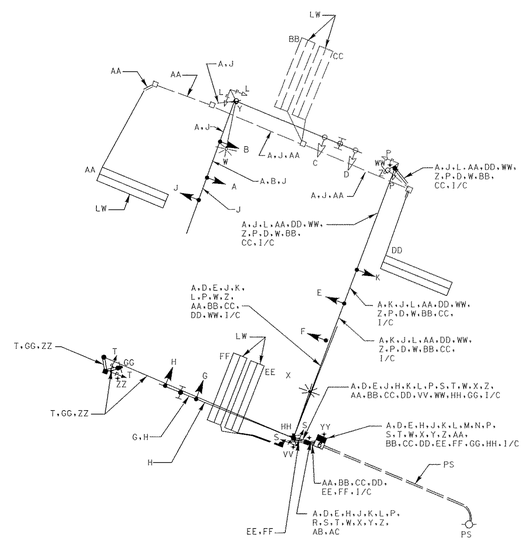
PHASE 1 WIRING DIAGRAM



WIRING KEY

A.E.J.K	– 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
B.C.D. F.G.H.P.L.S.T	– 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
Y.Z.AB.AC	– 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
AA.BB.CC.DD.EE.FF	– 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
W.X	– 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG)
VV.WW.YY.ZZ	– STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
I/C	– 50 PAIR COMMUNICATION CABLE, JELLY FILLED
LW	– LOOP WIRE ENCASED IN FLEXIBLE TUBING(NO. 14 AWG)
✦	– 3/4" x 10' GROUND ROD
PS	– POWER SERVICE FEED 3- 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG)

TEMPORARY WIRING NOTES:

1) NEW AND RELOCATED SIGNAL HEADS SHALL BE WIRED WITH SUFFICIENT CABLE TO PROVIDE REALIGNMENT IN SUBSEQUENT CONSTRUCTION PHASES.

2. EXISTING WIRING FOR EQUIPMENT WHICH IS TO BE REMOVED OR ABANDONED SHALL BE REMOVED AND DISPOSED.

3. EXISTING WIRING NOT DETAILED SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
1	EA	SP	EIGHT-PHASE, (FULLY ACTUATED) CONTROLLER AND CABINET BASE MOUNT
3	EA	SP	FOUR-CHANNEL LOOP DETECTOR AMPLIFIER (DELAY OUTPUT)
2	EA	SP	PEDESTRIAN PUSHBUTTON AND SIGN
32	SF	813	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: - 1 EACH R10-12 (36"X42")-MAST ARM MOUNT - 1 EACH D-3(1) (DARNESTOWN RD) DUAL FACE (VAR."X16")-MAST ARM MOUNT - 1 EACH R10-12 (36"X42")-SPAN WIRE MOUNT

EQUIPMENT LIST 'B'

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

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
5	CY	205	TEST PIT EXCAVATION
100	LF	556	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
1	EA	816	INSTALL CONTROLLER AND CABINET- BASE MOUNT
32	SF	813	INSTALL OVERHEAD SIGN
2	EA	SP	INSTALL PUSHBUTTON AND SIGN
3	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE
6	CY	801	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
35	LF	805	FURNISH AND INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
22	LF	805	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
33	LF	805	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
1	EA	807	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
3	EA	SP	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
1	EA	806	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE WITH PHOTOCELL
4	EA	804	FURNISH AND INSTALL GROUND ROD-3/4 INCH DIAMETER X 10 FOOT LENGTH
206	LF	810	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE GROUND COPPER WIRE
1124	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (ALUMINUM SHIELDED)
664	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (NO. 14 AWG)
1118	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 AWG)
1083	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 7 CONDUCTOR (NO. 14 AWG)
1924	LF	810	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
497	LF	815	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
310	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR 12 AWG
32	EA	814	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
4	EA	814	FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT
4	EA	814	FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION - PEDESTAL POLE MOUNT
1	EA	818	FURNISH AND INSTALL 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
1	EA	SP	FURNISH AND INSTALL STEEL POLE WITH TWIN 50-FOOT AND 60 FOOT MAST ARMS
1	EA	SP	FURNISH AND INSTALL 10-FOOT BREAKAWAY PEDESTAL POLE
1	EA	SP	FURNISH AND INSTALL 60 FOOT MAST ARM
60	LF	805	FURNISH AND INSTALL 3" ELECTRICAL CONDUIT - PVC RISER
2	EA	SP	FURNISH AND INSTALL 40 FOOT TEMPORARY WOOD POLE
230	LF	SP	FURNISH AND INSTALL STEEL SPAN WIRE 3/8-INCH DIAMETER
1	LS	SP	REMOVE AND SALVAGE EXISTING SIGNAL EQUIPMENT
1	LS	SP	DELIVERY OF SALVAGE EQUIPMENT
1	LS	SP	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
270	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 1 CONDUCTOR (NO. 4 AWG)
1	LS	SP	RELOCATE EXISTING COMMUNICATION CABLE

NOTE: ALL EQUIPMENT AND/OR MATERIALS TO BE REMOVED BY THE CONTRACTOR, BUT NOT LISTED BELOW, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

QUANTITY	UNIT	DESCRIPTION
1	EA	CONTROLLER AND CABINET

TSP 20

REVISION 'A'

KCI TECHNOLOGIES

KCI TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

REVISIONS

(A) 10-00 NEW
MD 28 GEOMETRICS
SHA CONT. NO. MO5285271

(3) ADDENDUM NO. 3
REPLACEMENT SHEET
12/19/2000

M.P.

APPROVALS

PROJECT MANAGER, SIGNAL DESIGN DIVISION
ORIGINAL ON FILE
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
PHASE I CONSTRUCTION
MD 28 (DARNESTOWN RD) AND POTOMAC VALLEY SHOPPING CENTER

DRAWN BY: S.C.K.	F.A.P. NO.		TS NO.	SHEET NO.
CHECKED BY: STEVE RENZI	S.H.A. NO.	M528-501-371	3474A-GIX-1	
SCALE: NONE	COUNTY:	MONTGOMERY	T.I.M.S. NO.	
DATE: OCTOBER 1994	LOG MILE:	15002815.79	D107	___ OF ___

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