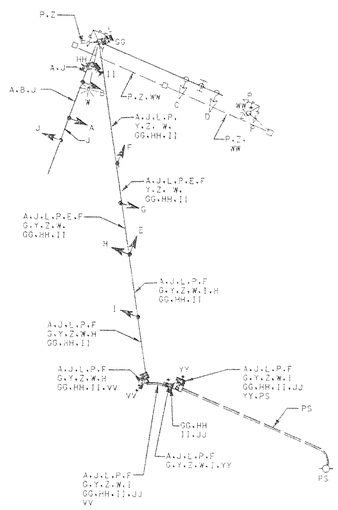
PHASE 1 WIRING DIAGRAM



WIRING KEY

G.A.J.I - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

B.C.D.E.F - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

Y.Z - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

W - 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG)

VV.WW.YY - STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

PS - POWER SERVICE FEED 3- 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG)

⏚ - 3/4" x 10' GROUND ROD

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
21	SF	813	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: - 1 EACH R10-12 (36"X42")-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	656	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
1	EA	816	INSTALL CONTROLLER AND CABINET- BASE MOUNT
21	SF	813	INSTALL OVERHEAD SIGN
1	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE
85	LF	805	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
40	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
3	EA	804	FURNISH AND INSTALL GROUND ROD-3/4 INCH DIAMETER X 10 FOOT LENGTH
140	LF	810	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE GROUND COPPER WIRE
665	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (NO. 14 AWG)
1120	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 AWG)
1090	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 7 CONDUCTOR (NO. 14 AWG)
260	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR 12 AWG
6	EA	814	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
26	EA	814	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
40	LF	805	FURNISH AND INSTALL 3" ELECTRICAL CONDUIT - PVC RISER
1	EA	SP	FURNISH AND INSTALL 40 FOOT TEMPORARY WOOD POLE
170	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
3	EA	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION SYSTEM
900	LF	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION 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

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.

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. M05285271
3	ADDENDUM NO. 3 REPLACEMENT SHEET 12/19/2000
4	REDLINE NO. 4 NEW SHEET 9/6/2001

M.P.

APPROVALS

PROJECT MANAGER, SIGNAL DESIGN DIVISION — ORIGINAL

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — ON

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION — FILE

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
PHASE 1 CONSTRUCTION
MD 28 (DARNESTOWN RD) AND POTOMAC VALLEY SHOPPING CENTER

DRAWN BY:	S.C.K.	F.A.P. NO.		F.D. NO.	
CHECKED BY:	STEVE RENZI	S.H.A. NO.	M528-501-371	347HA-31X-1	SHEET NO.
SCALE:	NONE	COUNTY:	MONTGOMERY	T.I.M.S. NO.	
DATE:	OCTOBER 1994	LOG MILE:	15.002815.79	D107	319A OF 434

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