EQUIPMENT LIST 'A'

EQUIPMENT TO BE SUPPLIED BY THE SHA.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
2	EA	SP	FOUR-CHANNEL, TIME DELAY OUTPUT, LOOP DETECTOR AMPLIFIER
2	EA	SP	PEDESTRIAN PUSHBUTTON AND SIGN
110	SF	813	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: - 1 EACH R3-5R (30" X 36")-SPAN WIRE MOUNT - 2 EACH R3-5L (30" X 36")-SPAN WIRE MOUNT - 1 EACH R3-6 (30" X 36")-SPAN WIRE MOUNT - 2 EACH R10-12 (36" X 42")-SPAN WIRE MOUNT - 2 EACH D3-2 (Muddy Branch Rd) (Dual Face) (VAR." X 16")-SPAN WIRE MOUNT - 2 EACH ASSOCIATED SHIELD ASSEMBLY (24"X51") - 2 EACH ASSOCIATED SHIELD ASSEMBLY (30"X51")

EQUIPMENT LIST 'B'

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

	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
	2	CY	205	TEST PIT EXCAVATION
	110	SF	813	INSTALL OVERHEAD SIGN
	2	EA	SP	INSTALL PUSHBUTTON AND SIGN
	2	EA	818	FURNISH AND INSTALL 10 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
	3	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE
[7]	20 ~~10~~	CY	801	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
[4]	~~21~~	LF	308	~~FURNISH AND INSTALL 1" (VAR.) TO 2INT FOR 2LB/2BLS NON-METALLIC CONDUIT FOR DETECTOR SLEEVE~~
	120	LF	305	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
[7]	75 ~~50~~	LF	305	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
	2	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
[7]	675 ~~600~~	LF	810	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
[4]	~~1200~~	LF	810	~~FURNISH AND INSTALL SUBSTRATE CABLE- 2 CONDUCTOR (ALUMINUM SHIELDED)~~
	880	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (NO 14 AWG)
	520	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 3 CONDUCTOR (NO 14 AWG)
[7]	620 ~~500~~	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO 14 AWG)
	2250	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 7 CONDUCTOR (NO 14 AWG)
[7]	52 ~~50~~	EA	814	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
[4]	~~2600~~	LF	810	~~FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)~~
[4]	~~750~~	LF	815	~~FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)~~
	1	LS	SP	RELOCATE EXISTING COMMUNICATION CABLE
	250	LF	819	FURNISH AND INSTALL STEEL SPAN WIRE- 3/8 INCH DIAMETER
	120	EA	814	FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT
	1	LS	SP	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
	150	LF	556	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT MARKING TAPE
	2	EA	818	FURNISH AND INSTALL STEEL POLE WITH SINGLE 70 FOOT MAST ARM
	1	EA	818	FURNISH AND INSTALL STEEL POLE WITH SINGLE 60 FOOT MAST ARM
	1	EA	818	FURNISH AND INSTALL STEEL POLE WITH TWIN 50 FOOT AND 60 FOOT MAST ARM
[4]	4	EA	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION SYSTEM
[4]	980	LF	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CABLE
[7]	1	EA	810	FURNISH AND INSTALL 14 FOOT BREAKAWAY PEDESTAL POLE
[7]	3	EA	814	FURNISH AND INSTALL 8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION

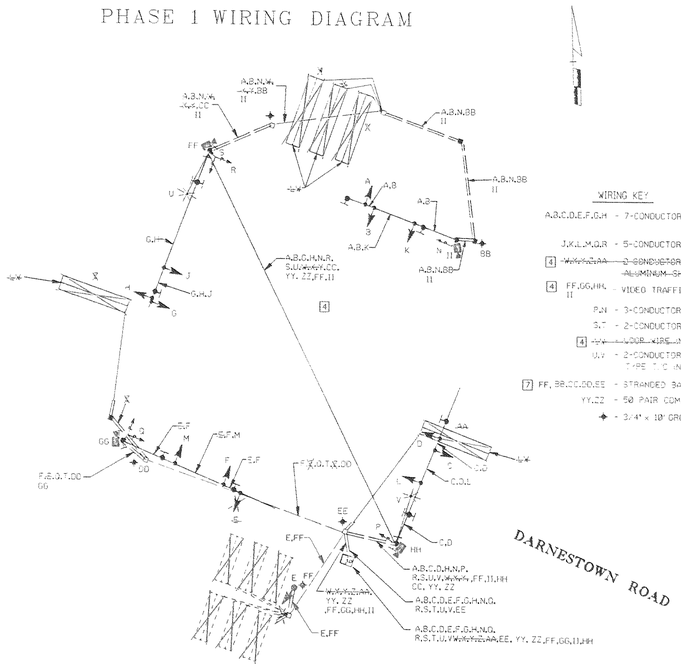
TEMPORARY WIRING NOTES:

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.

PHASE 1 WIRING DIAGRAM



WIRING KEY

A,B,C,D,E,F,G,H - 7-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)

J,K,L,M,Q,R - 5-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)

[4] ~~W,W,X,AA - 2-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG) ALUMINUM SHIELDED~~

[4] FF,GG,HH,II - VIDEO TRAFFIC DETECTOR CABLE (NO.18 AWG)

P,N - 3-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)

S,T - 2-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)

[4] ~~V,V - 1-WIRE (NO.14 AWG)~~

U,V - 2-CONDUCTOR ELECTRICAL CABLE TYPE T.C (NO.10 AWG)

[7] FF,BB,CC,DD,EE - STRANDED BARE COPPER GROUND WIRE (NO.6 AWG)

YY,ZZ - 50 PAIR COMMUNICATION CABLE, JELLY FILLED

✦ - 3/4" x 10' GROUND ROD

TSP 40

KCI TECHNOLOGIES

REVISION 'C'

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

REVISIONS	APPROVALS
© 10-00 NEW MD 28 GEOMETRICS	PROJECT MANAGER, SIGNAL DESIGN DIVISION: ORIGINAL
△3 ADDENDUM NO. 3 NEW SHEET 12/19/2000	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: ON
[4] REDLINE NO. 4 REPLACEMENT SHEET 8/23/2001	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: FILE
[7] REDLINE NO. 7 REPLACEMENT SHEET 2/4/2002	DIRECTOR, TRAFFIC & SAFETY
Q.X.I	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
PHASE 1 CONSTRUCTION
MD 28 (DARNESTOWN RD) AND MUDDY BRANCH ROAD.

DRAWN BY: T.Z.	F.A.P. NO.		TG NO. 1915C-GIX-1	SHEET NO. 337B OF 434
CHECKED BY: T.M.	S.H.A. NO.	BW-730-802-3412		
SCALE: NONE	COUNTY:	MONTGOMERY	T.I.M.S. NO. D107	
DATE: 7-30-83	LOG MILE:	15002817.77		

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