PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD ROUTE 28 (DARNESTOWN ROAD) AND OWENS GLEN WAY IN MONTGOMERY COUNTY. MD ROUTE 28 (DARNESTOWN ROAD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA, SIX (6) PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE WILL BE AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR BOTH THE EASTBOUND AND WESTBOUND MD 28 MOVEMENTS. THE MD 28 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY. THE OWENS GLEN WAY MOVEMENTS WILL OPERATE CONCURRENTLY. AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE WEST LEG OF MD 28. A CONCURRENT PEDESTRIAN PHASE WILL BE PROVIDED ALONG THE NORTH AND SOUTH LEGS OF OWENS GLEN WAY.

AN EIGHT (8) PHASE, FULL-TRAFFIC-ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH ~~SIX (6) TWO CHANNEL LOOP DETECTOR AMPLIFIERS~~ VIDEO TRAFFIC DETECTION SYSTEM [4] HOUSED IN A BASE MOUNTED CABINET EXISTS AT THIS LOCATION.

III. INTERCONNECTION

THE EXISTING 50 PAIR VOICE GRADE INTERCONNECT CABLE BETWEEN THE INTERSECTIONS OF MD 28 @ OWENS GLEN WAY AND MD 28 @ MUDDY BRANCH ROAD IS TO BE MAINTAINED.

IV. PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT THREE ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
PHONE (301) 513-7311

MR. MAJID SHAKIB
ASSISTANT DISTRICT
ENGINEER-TRAFFIC
PHONE: (301) 513-7358

MR. AUGUSTINE REBISH
UTILITY ENGINEER
PHONE: (301) 513-7350

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

THE CONTACT PERSON FOR
MONTGOMERY COUNTY DPW-T IS:
MR. ROBERT CONZALES
PHONE: (240)777-8761

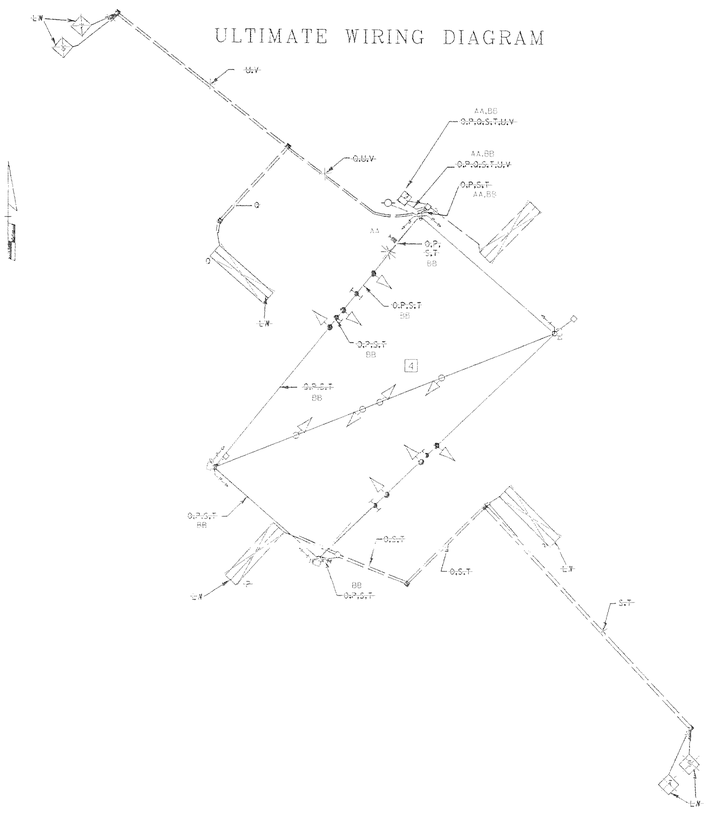
THE POWER COMPANY REPRESENTATIVE IS
POTOMAC ELECTRIC POWER COMPANY
MR. JIM SLAYTON
PHONE: (202) 872-2000

EQUIPMENT LIST 'B'

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

	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
	110	LF	553	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
	580	LF	553	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
[4]	~~15~~	~~LF~~	~~805~~	~~FURNISH AND INSTALL 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE~~
[4]	~~25~~	~~LF~~	~~810~~	~~FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)~~
	247	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO 14 AWG)
	805	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO 14 AWG)
[4]	~~987~~	~~LF~~	~~812~~	~~FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)~~
[4]	~~229~~	~~LS~~	~~815~~	~~FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)~~
	17	LF	805	FURNISH AND INSTALL 1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
	87	LF	805	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
	296	LF	805	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
	6	EA	814	RELOCATE EXISTING SIGNAL HEADS
	4	EA	SP	RELOCATE EXISTING OVERHEAD SIGN
	6	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE
	1	LS	SP	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
[4]	2	EA	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION SYSTEM
[4]	350	LF	SP	FURNISH AND INSTALL VIDEO TRAFFIC DETECTION CABLE

ULTIMATE WIRING DIAGRAM



WIRING KEY

[4] O,P,Q,S,T,U,V — 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)

[4] LW — LOOP WIRE (NO. 14 AWG)

[4] AA,BB - VIDEO TRAFFIC DETECTION CABLE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 & 5	G/R	G/R	R	G/R	G/R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 5 CHANGE	TO PHASE 1 & 6, OR PHASE 2 & 5, OR PHASE 2 & 6															
PHASE 1 & 6	G/G	G/G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 CHANGE	Y/G	Y/G	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	G/G	G/G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
5 CHANGE	R	R	R	Y/G	Y/G	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	R/G	R/G	G	R/G	R/G	G	R	R	R	R	W	W	W	W	DW	DW
PED CLEAR	G	G	G	G	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	R/Y	R/Y	Y	R/Y	R/Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
ALT 4	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	W	W
PED CLEAR	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

TSP 38

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

REVISIONS		
B	3-94 MODIFY SIGNAL DUE TO NEW GEOMETRICS FOR EB MD 28	
L.C.		
C	10-00 NEW MD 28 GEOMETRICS	
A	ADDENDUM NO. 3 NEW SHEET 12/19/2000	
4	REDLINE NO. 4 REPLACEMENT SHEET 7/02/2001	
M.P.	O.K.	

APPROVALS

PROJECT MANAGER, SIGNAL DESIGN DIVISION: ORIGINAL

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION: ØN

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
ULTIMATE STAGE
MD 28 (DARNESTOWN RD) AND OWENS GLEN WAY

DRAWN BY: S.R. BARANOWSKI	F.A.P. NO.		TS NO. 3594B-GI
CHECKED BY: R. R. ZACHERL	S.H.A. NO.	BW-853-802-312	
SCALE: NONE	COUNTY:	MONTGOMERY	SHEET NO.
DATE: 2-15-96	LOG MILE:	15002816.46	T.I.M.S. NO. D107 — 337 OF 434

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