DRILL HOLES

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BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with interconnect at the intersection of MD 28 (Darnestown Road) and MD 112 (Seneca Road) in Montgomery County. The modification is necessary due to the proposed widening of MD 28 west of MD 112 associated with the development of the southwest quadrant of the intersection. The existing interconnect cable running west shall be pulled back to a proposed splice cabinet and replaced. MD 28 (Darnestown Road) is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. The intersection is to continue operating in a NEMA four-phase, semi-actuated mode, with the MD 28 (Darnestown Road) approaches running concurrently. Farside sampling stations exist on both legs of MD 28 (Darnestown Road) and southbound MD 112 (Seneca Road) at this intersection. The MD 112 (Seneca Road) approach runs concurrently with the Shopping Center Driveway.

2. A full-traffic-actuated, eight-phase controller with three (3) four-channel, rack mount loop detector amplifiers, L.A.U., L.A.U. Panel and associated harnesses housed in a NEMA size "6" base-mounted cabinet shall remain at this intersection.

III. SPECIAL NOTES

1. All field wiring to the existing controller cabinet shall be terminated to the appropriate controller cabinet connectors by the Contractor and labeled. All other controller cabinet wiring will be performed by Montgomery County. Contact Mr. Kamal Hamud at (240) 777-8761 seventy-two hours in advance of intended work.

2. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. Contact Mr. Kamal Hamud at (240) 777-8761 seventy-two hours in advance of intended work.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY MONTGOMERY COUNTY AND INSTALLED BY THE CONTRACTOR.

QUANTITY	SPEC. SECTION	DESCRIPTION
1 Each.		Interconnect splice cabinet.

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

QUANTITY	SPEC. SECTION	DESCRIPTION
Lump Sum	106	Mobilization.
Lump Sum	106	Maintenance of traffic.
150 S.F.	104	Temporary traffic sign.
1 U.D.	105	Flashing arrow panels.
1 C.Y.	204	Test pit excavation.
20 L.F.	SP-555	Furnish and install thermoplastic pavement marking tape, white (12" width for crosswalk).
10 L.F.	SP-555	Furnish and install thermoplastic pavement marking tape, white (24" width for stoplines).
1 Each	870	Furnish and install 3" weatherhead.
45 L.F.	815	Furnish and install sawcut.
6 L.F.	805	Furnish and install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
230 L.F.	805	Furnish and install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
30 L.F.	805	Furnish and install 3" polyvinyl chloride electrical conduit (Schedule 80) (riser).
2 Each	811	Furnish and install handhole (frame and cover).
180 L.F.	810	Furnish and install loop wire (No. 14 A.W.G.) encased in 1/4" flexible tubing.
400 L.F.	810	Furnish and install 2-conductor electrical cable (No. 14 A.W.G.) (aluminum shielded).
300 L.F.	810	Furnish and install 2-conductor electrical cable (No. 12 A.W.G.) copper Type TC.
660 L.F.		Furnish and install 12-pair voice grade self-supporting interconnect cable.
180 L.F.		Cut and pull back existing I/C cable.
420 L.F.		Remove and discard existing I/C cable.
10 S.F.		Detectable warning surface (Standard No. MD 611.01).

NOTE: All equipment and/or materials to be removed by the Contractor but not listed above are to become the property of the Contractor.

The contact persons for District #3 (Montgomery County) are as follows:

Mr. Jeff Wentz
Assistant District Engineer - Traffic
Phone: (301) 513-7358

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
District Engineer - Utility
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Keith Lord
Chief, Montgomery County Signal Shop
301-279-1291

Mr. Sonny Bailey
Chief, Sign Shop
410-787-7676

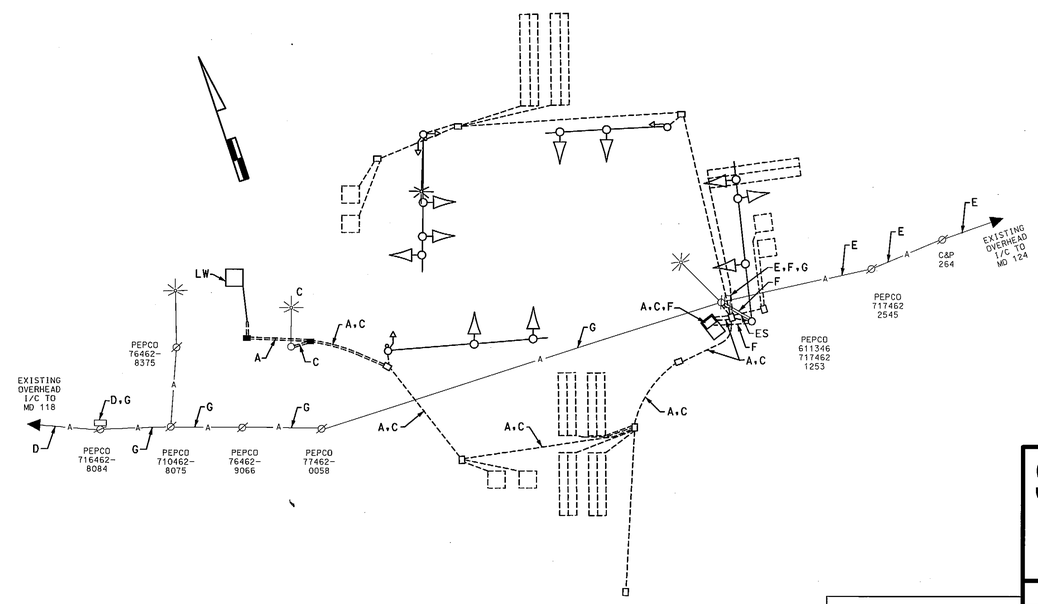
The power company representative is:

Mr. Steve Custer
PEPCO Customer Design
201 W Gude Dr.
Rockville, MD 20850
Phone: 301 548-4333

PHASE CHART

	1	2	3	4	5	6	7	8	9	10
	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



WIRING KEY

A –	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) (ALUMINUM SHIELDED)
C –	2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) COPPER TYPE TC
D, E, F	EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE
G –	PROPOSED 12-PAIR VOICE GRADE INTERCONNECT CABLE
LW –	LOOP WIRE (NO. 14 A.W.G.)
ES –	EXISTING OVERHEAD SERVICE TO BE MAINTAINED BY PEPCO

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 28 (DARNESTOWN RD) AND MD 112 (SENECA RD) / DARNESTOWN VILLAGE CENTER DRWY

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.,NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

5719gl.dgn

SCALE 1"= 20' DATE 2/5/09 CONTRACT NO.

DESIGNED BY R R ZACHERL
DRAWN BY W J NIES
CHECKED BY
F.A.P. NO.

COUNTY MONTGOMERY
LOGMILE I5002813.18
TIMS NO.
TOD NO.

TS NO. 2372F | DRAWING NO. OF | SHEET NO. 2 OF 2

PLOTTED: $DATETIME$
FILE: $FILE$

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