

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of US 29 (Columbia Pike) and Burnt Mills Avenue in Montgomery County. US 29 (Columbia Pike) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to continue to operate in a NEMA six-phase, semi-actuated mode, with the US 29 (Columbia Pike) approaches continuing to run concurrent. Exclusive/Permissive left turn phases shall remain in operation for both approaches of US 29 (Columbia Pike). A new pedestrian phase with pushbutton actuation shall be provided across the north leg of US 29 (Columbia Pike). The Burnt Mills Avenue approaches shall also continue to run concurrently.
- The existing full-traffic-actuated, eight-phase controller with L.A.U. and L.A.U. Panel and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

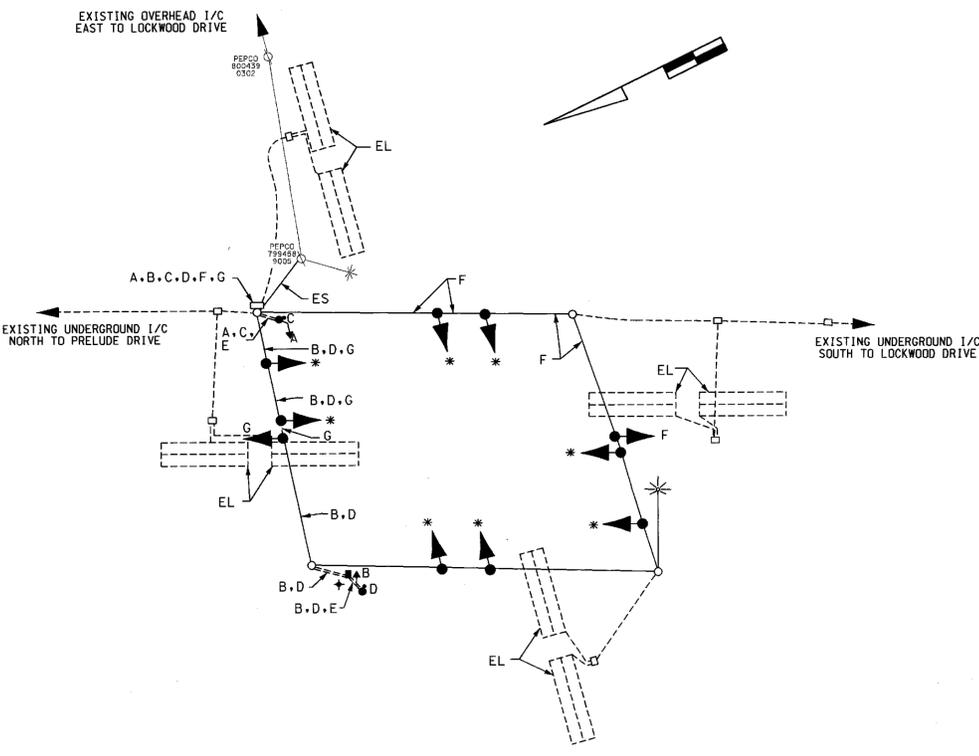
- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- Contact Mr. Bob Gonzales at (240) 777-8761 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
2001	Class II Excavation	12 CY
2002	Test Pit Excavation	1 CY
6001	F&I Type A Comb. Curb & Gutter	15 LF
6003	F&I 4" Concrete Sidewalk	170 SF
8001	F&I 12" Ped. Signal Head Section	4 EA
8009	F&I Breakaway Pedestal Pole (10')	2 EA
8011	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS US 29".)	2 EA
8021	F&I Concrete for Signal Foundation	2 CY
8023	F&I No. 6 AWG Stranded Bare Copper Ground Wire	20 LF
8029	F&I 3" Sched. 80 Rigid PVC Conduit - Trenched	40 LF
8041	Furnish & Install Electrical Handhole	1 EA
8050	F&I Ground Rod - 3/4" Diameter x 10' Length	1 EA
8053	F&I 12" Vehicular Traffic Signal Head Section	38 EA
8056	F&I Electrical Cable 2 - Conductor No. 14 AWG	210 LF
8057	F&I Electrical Cable 3-Conductor No. 14 AWG	220 LF
8059	F&I Electrical Cable 7-Conductor No. 14 AWG	250 LF
8070	F&I depressed curb & gutter.	25 LF
	F&I Detectable Warning Surfaces	8 SF
Neg.	Extender base for pole mounted cabinet.	1 EA

WIRING DIAGRAM



WIRING KEY

A | 3-CONDUCTOR ELECTRICAL
B | CABLE (NO. 14 A.W.G.)

C | 2-CONDUCTOR ELECTRICAL
D | CABLE (NO. 14 A.W.G.)

E - STRANDED BARE COPPER GROUND
WIRE (NO. 6 A.W.G.)

F | 7-CONDUCTOR ELECTRICAL
G | CABLE (NO. 14 A.W.G.)

* - USE EXISTING WIRING

EL - LOOP WIRE (NO. 14 A.W.G.)
EXISTING

ES - EXISTING OVERHEAD SERVICE
TO BE INSTALLED BY PEPCO

† - GROUND ROD

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

- Mr. Lee Starkloff
Assistant District Engineer - Traffic
Phone: (301) 513-7318
- 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

SEQUENCE OF OPERATION SHEET
DIVISION OF OPERATIONS
TRAFFIC ENGINEERING & OPERATIONS SECTION
MONTGOMERY COUNTY, MARYLAND

US 29 RUNS IN AN NORTH-SOUTH DIRECTION
INTERSECTION: US 29 AND BURNT MILLS AVE
NO. _____

SIGNAL NO.	SIGNAL HEAD INDICATIONS			
	3,6,7,8,9,10	1,2,4,5	11,12	PHASING
TOTAL:	6	4	2	
LEGEND	(R)	(R)	(R)	Hand icon
OPTICALLY LIMITED	(Y)	(Y)	(Y)	Hand icon
R RED	(Y)	(Y)	(Y)	Hand icon
Y YELLOW	(G)	(G)	(G)	Hand icon
G GREEN	(G)	(G)	(G)	Hand icon
ARROW	(G)	(G)	(G)	Hand icon
F FLASHING	12"	12"	12"	9" or 12"

SIGNAL NO.	SEQUENCE OF OPERATION																	F & B		
	INTERVAL																			
1	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FL/Y	
2	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FL/Y	
3	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FL/Y	
4	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FL/Y	
5	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FL/Y	
6	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FL/R	
7	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	FL/R	
8	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	FL/R	
9	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	FL/R	
10	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	FL/R	
11	DW	DW	DW	WK	FL	DW	DARK													
12	DW	DW	DW	WK	FL	DW	DARK													
PHASE 2 & 6	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	ALL RED	

NOTES:

SUBMITTED: _____ CHECKED: _____ APPROVED: _____
IN SERVICE BY: _____ DATE: _____ TIME: _____



SHA#: M0225454/254 TSD#: AT288-51

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
US 29 (COLUMBIA PIKE) AND BURNT MILLS AVE

DRAWN BY: ROB CICCHINI	F.A.P. NO. _____	TS NO. _____
CHECKED BY: JAMES ALLEN JR	S.H.A. NO. AT2885185	413 C
SCALE: NONE	COUNTY: MONTGOMERY	T.L.M.S. NO. F907
DATE: 2/18/04	LOG MILE: 15002904.09	SHEET NO. 2 OF 2