

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with interconnect at the intersection of MD 355 (Wisconsin Ave) and MD 191 (Bradley Blvd) in Montgomery County. A pedestrian phase shall be added across the south leg of MD 355. MD 355 (Wisconsin Ave) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA six-phase, semi-actuated mode, with the MD 355 (Wisconsin Ave) approaches continuing to run in a split phase mode. The pedestrian phase with pushbutton actuation shall remain in operation across the north leg of 355 (Wisconsin Ave). A new pedestrian phase with pushbutton actuation shall be provided across the south leg of 355 (Wisconsin Ave). The pedestrian phases across MD 191 (Bradley Blvd) shall remain on recall. The Exclusive/Permissive left turn phases shall remain in operation for the MD 191 (Bradley Blvd) approaches. The MD 191 (Bradley Blvd) approaches shall continue to run concurrently.
- The existing full-traffic-actuated, eight-phase controller with 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.
- The Contractor shall be responsible for terminating all signal cables to 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

Item No.	Description	Units	Total Quantities
1001	Maintenance of Traffic	EA	1
2001	Class II Excavation	CY	3
2002	Test Pit Excavation	CY	1
5003	F&I 12" White Lead Free Reflective Therm. Pavement Markings	LF	600
5004	F&I 24" White Lead Free Reflective Therm. Pavement Markings	LF	50
5005	Removal of Exist. Pavement Marking Line - Any Width	LF	130
6003	F&I 4" Concrete Sidewalk	SF	315
8001	F&I 12" Ped. Signal Head Section	EA	6
8009	F&I Breakaway Pedestal Pole (10')	EA	1
8011	F&I Pushbutton and Sign (Note: Sign to read "PUSHBUTTON TO CROSS MD 355")	EA	2
8013	Remove & Dispose of Equipment (Per Assignment)	EA	1
8015	Remove Foundation 12" Depth	EA	1
8021	F&I Concrete for Signal Foundation	CY	1
8023	F&I No. 6 AWG Stranded Bare Copper Ground Wire	LF	220
8029	F&I 3" Sched. 80 Rigid PVC Conduit - Trenched	LF	15
8056	F&I Electrical Cable 2 - Conductor No. 14 AWG	LF	320
8057	F&I Electrical Cable 3-Conductor No. 14 AWG	LF	100
8058	F&I Electrical Cable 5-Conductor No. 14 AWG	LF	240
Neg.	Furnish and install depressed curb and gutter	LF	80

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

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

Mr. Raleigh Medley  
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

MD 355  
RUNS IN AN  
NORTH-SOUTH  
DIRECTION

TRAFFIC OPERATIONS SECTION  
DIVISION OF TRAFFIC ENGINEERING  
MONTGOMERY COUNTY, MARYLAND

MD 355 (WISCONSIN AVE) AND  
MD 191 (BRADLEY BLVD)

INTERSECTION:

SIGNAL NO.	SIGNAL HEAD INDICATIONS					
	2,4,10,11,12	5,8	6,9	1,3	7	13-20
TOTAL:	5	2	2	2	1	8
LEGEND	(R)	(R)	(R)	(R)	(R)	(R)
OPTICALLY LIMITED	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
RED	(R)	(R)	(R)	(R)	(R)	(R)
YELLOW	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
GREEN	(G)	(G)	(G)	(G)	(G)	(G)
ARROW	(A)	(A)	(A)	(A)	(A)	(A)
FLASHING	(F)	(F)	(F)	(F)	(F)	(F)
	12"	12" 8"	12"	12"	9" or 12"	9" or 12"

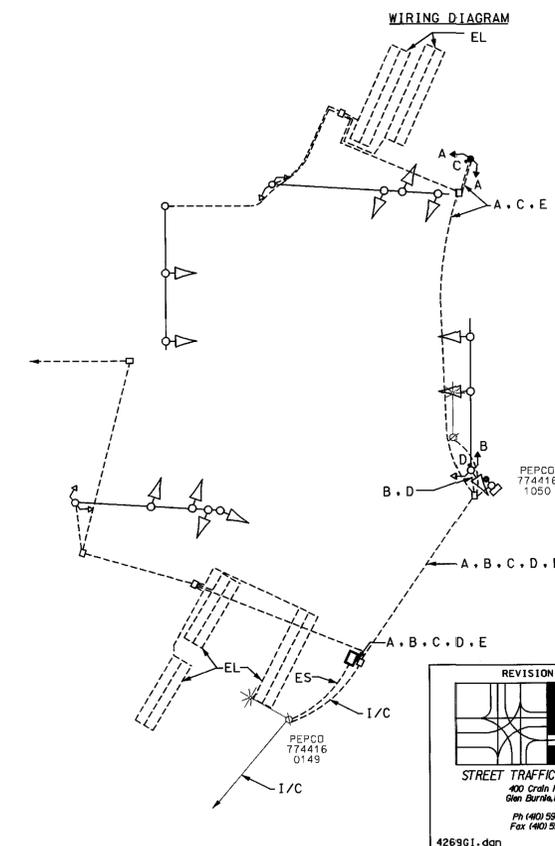
SIGNAL NO.	SEQUENCE OF OPERATION																									FLASH
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
1	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
2	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
4	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
6	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
7	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
9	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
10	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
11	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
12	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y
13	WK	DW	DW	DW	DW	DW	DW	DW	DW	DARK																
14	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
15	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
16	WK	DW	DW	DW	DW	DW	DW	DW	DW	DARK																
17	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
18	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
19	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
20	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
PHASE	1	2 & 4	ALL	2 & 4	ALL	3 & 7	ALL	3 & 7	ALL	3 & 8	ALL	4 & 7	ALL	4 & 7	ALL	4 & 8	ALL	4 & 8	ALL	PRE-EMPT	ALL	PRE-EMPT	ALL	PRE-EMPT	ALL	

NO. PHASING



NOTES:

SUBMITTED: \_\_\_\_\_ CHECKED: \_\_\_\_\_ APPROVED: \_\_\_\_\_  
IN SERVICE BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_



**WIRING KEY**

- A - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B - 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D }
- E - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
- ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO
- I/C - EXISTING INTERCONNECT CABLE

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
**Office of Traffic & Safety**  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
**MD 355 (WISCONSIN AVE) AND MD 191 (BRADLEY BLVD)**

DRAWN BY: ROB CICCHINI	F.A.P. NO. 1857B-61	TS NO. 1857B-61	SHEET NO. 2 OF 2
CHECKED BY: R. ZACHERL	S.H.A. NO. M3025A51	T.I.M.S. NO. F275	
SCALE: NONE	COUNTY: Montgomery	LOG MILE: 15035501.16	
DATE: 12-10-02			

REVISION "B"

STREET TRAFFIC STUDIES, LTD.  
400 Crain Hwy., N.W.  
Suite B-100, Atlanta, GA 30328  
Ph: (404) 590-5500  
Fax: (404) 590-6637