PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with interconnect at the intersection of MD 28 (Key West Ave) and Medical Center Dr / Omega Dr in Montgomery County. MD 28 (Key West Ave) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA six-phase, mode, with the MD 28 (Key West Ave) approaches continuing to run concurrently. A new Exclusive left turn phase shall be provided for the eastbound approach of MD 28 (Key West Ave). The Exclusive left turn phase for the westbound approach of MD 28 (Key West Ave). shall continue to operate. A pedestrian phase with pushbutton actuation shall be provided across the east leg of MD 28 (Key West Ave).. The pedestrian phases across Medical Center Dr / Omega Dr shall be on recall. Farside sampling stations shall be provided on both legs of MD 28 (Key West Ave) at this intersection. The Medical Center Dr / Omega Dr approaches shall also continue to run concurrently.

2. 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

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.

2. Contact Mr. Bob Gonzales at MCDPW&T (240) 777-8761 seventy-two hours in advance of intended work.

3. 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

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9572	Sheet aluminum signs to consist of: (span wire mount)	8 SF
	R3-5L "ONLY" sign, (30" x 36") spam wire mount.	1 EA

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of Traffic	1 EA
5007	F&I White Heat Applied Thermoplastic Pavement Marking Letter	4 EA
5008	F&I White Heat Applied Thermoplastic Pavement Marking Arrows	3 EA
8013	Remove & Dispose of Equipment (Per Assignment)	1 EA
8043	Install Overhead Sign	8 SF
8053	F&I 12" Vehicular Traffic Signal Head Section	12 EA
8059	F&I Electrical Cable 7-Conductor No. 14 AWG	475 LF

C. EQUIPMENT TO BE REMOVED

ITEM NO.	DESCRIPTION	QUANTITY

ALL EQUIPMENT TO BE REMOVED IS TO BECOME PROPERTY OF THE CONTRACTOR.

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

WIRING DIAGRAM

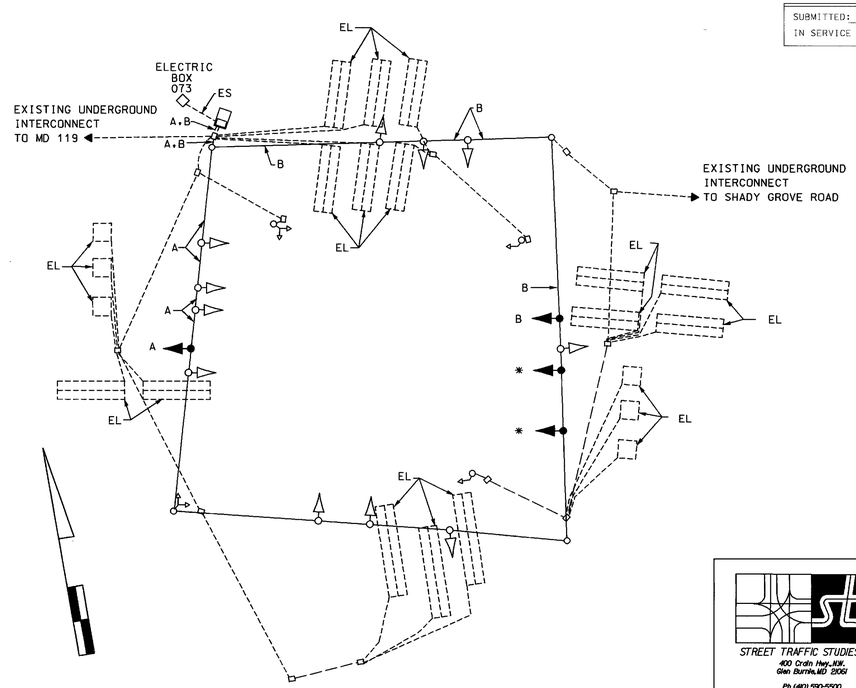
WIRING KEY

A, B } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

* - USE EXISTING WIRING

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

ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO

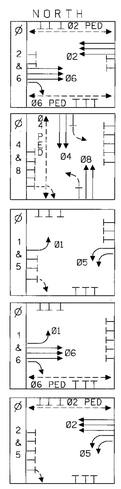


MD 28 RUNS IN AN EAST-WEST DIRECTION

SEQUENCE OF OPERATION SHEET
DIVISION OF OPERATIONS
TRAFFIC ENGINEERING & OPERATIONS SECTION
MONTGOMERY COUNTY, MARYLAND
MD 28 (KEY WEST AVE) AND
INTERSECTION: MEDICAL CENTER DR / OMEGA DR NO. _____

	SIGNAL HEAD INDICATIONS			
SIGNAL NO.	3,4,8,9,10,11, 12,13,14,15		1,2,5, 6,7,	16-21
TOTAL:	10		5	6
LEGEND				
OPTICALLY LIMITED				
R RED	R	R	R	
Y YELLOW	Y	Y Y	Y	
G GREEN	G	G G	G	
ARROW				
F FLASHING	12"	12"	12"	9"or12" X

PHASING



SIGNAL NO.	SEQUENCE OF OPERATION INTERVAL 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FLASH
1	R	R	R	R	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	FL/R
2	R	R	R	R	R	R	R	R	R	G	Y	R	G	Y	R	R	R	R	FL/R
3	G	G	Y	R	R	R	R	R	R	R	R	R	G	G	G	R	R	R	FL/Y
4	G	G	Y	R	R	R	R	R	R	R	R	R	G	G	G	R	R	R	FL/Y
5	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	G	Y	R	FL/R
6	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	G	Y	R	FL/R
7	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	G	Y	R	FL/R
8	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	FL/Y
9	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	FL/Y
10	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	FL/R
11	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	FL/R
12	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	FL/R
13	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	FL/R
14	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	FL/R
15	R	R	R	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	FL/R
16	WK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	WK	WK	WK	DARK
17	WK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	WK	WK	WK	DW	DW	DW	DARK
18	WK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	WK	WK	WK	DW	DW	DW	DARK
19	WK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	WK	WK	WK	DARK
20	DW	DW	DW	DW	WK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
21	DW	DW	DW	DW	WK	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
PHASE	2 & 6		ALL RED	4 & 8					ALL RED	1 & 5		ALL RED	1 & 6		ALL RED	2 & 5		ALL RED	

NOTES:

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

SHA#: MD.825A&C/PSC TCD#: AT288-38

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-5537

4499GI.dgn

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 28 (KEY WEST AVE.) AT
MEDICAL CENTER DR./OMEGA DR.

DRAWN BY: D.A. NIES	F.A.P. NO.		TS NO. 4057 C	SHEET NO.
CHECKED BY: JAMES ALLEN Jr.	S.H.A. NO.	ATT2885185		
SCALE: 1"= 20'	COUNTY:	MONTGOMERY	T.I.M.S. NO. E127	2 OF 2
DATE: 12-03-03	LOG MILE:	15R02800.99		

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