PROJECT DESCRIPTION

I. General

This project involves the modification of an existing traffic control signal at the intersection of Maryland Route 97 (Georgia Avenue) and Randolph Road in Montgomery County. Maryland Route 97 (Georgia Avenue) is assumed to run in a north - south direction. This project is the addation of pedestrian signals to cross the East and West legs of the intersection.

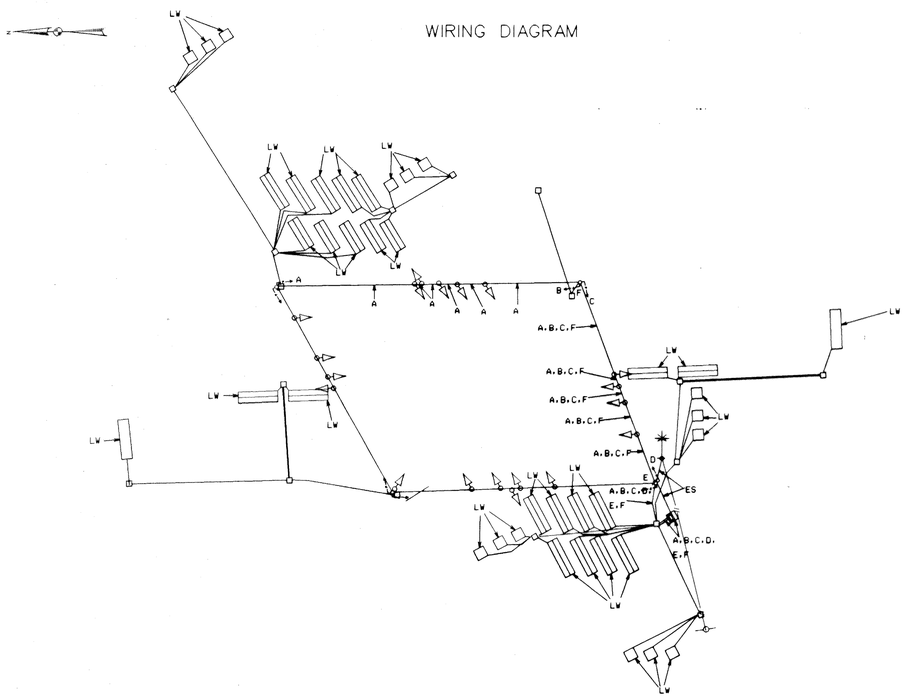
II. Intersection Operation
Normal Operation

The intersection will operate in a NEMA An eight (8) phase, full-traffic-actuated, solid state digital controller with (20) two-channel loop detector amplifiers housed in a base mounted cabinet exist at this location. MD 97 approaches running concurrently and Randloph Road operating split phases. exclusive left turn phasing will be provided for MD 97 approaches. pedestrian signals will be provided.

Special Operation

The intersection will operate as indicated above unless the fire house pre-emption is actuated. The traffic signal will stop all approaches only the fire house will be allowed to move.

WIRING DIAGRAM



WIRING LEGEND

A.B. C.D — 3-CONDUCTOR CABLE (NO. 14 AWG)

E.F — 2-CONDUCTOR CABLE (NO. 14 AWG)

LW - LOOP WIRE

PF - POWER FEED

EQUIPMENT LIST "A"

Section Number	Category Code	Description	Unit	Quantity:
9000	900000	12 INCH 2 WAY 2 SECTION SIGNAL SIDE OF POLE MOUNT	EA	1
9000	900000	12 INCH 1 WAY 2 SECTION SIGNAL SIDE OF POLE MOUNT	EA	2
9096	965001	PUSHBUTTON AND SIGN	EA	2

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EQUIPMENT LIST "B"

Section Number	Category Code	Description	Unit	Quantity
1001	110320	MAINTENANCE OF TRAFFIC	EA	1
2004	201032	CLASS 2 EXCAVATION	CY	2
5003	500000	12 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	650
5004	500000	24 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	50
5007	585450	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH	LF	50
6001	655104	4 INCH CONCRETE SIDEWALK	SF	32
8011	800000	INSTALL SIGNAL HEAD (ANY TYPE)	EA	4
8018	865201	INSTALL PUSHBUTTON AND SIGN	EA	2
8042	861105	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO 14 AWG)	LF	225
8043	861106	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO 14 AWG)	LF	950

PHASE CHART

	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	26	27
PHASE 1 - 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 - 5 CHANGE	TO 1+6, 2+5 OR 2+6																										
PHASE 1 + 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PED. CLEAR	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	FL/DW	FL/DW	DW	DW	DW	DW	DW
1 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PED. CLEAR	R	R	R	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	FL/DW	DW	DW	FL/DW	DW	DW	DW	DW
2 + 5 CHANGE	R	R	R	R	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED. CLEAR	R	R	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 + 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	G	G	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	R	R	G	G	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	WK	WK	DW
PED. CLEAR	R	R	R	R	R	R	R	R	G	G	G	G	G	G	R	R	R	R	R	DW	DW	DW	DW	DW	FL/DW	FL/DW	DW
3 ALT CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	DW	DW	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	R	DW	DW	DW	DW	WK	DW	DW	WK
PED CLEAR	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	R	DW	DW	DW	DW	FL/DW	DW	DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	R	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

PRE-EMPTION PHASES

PE #1	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FL/R	DW	DW	DW	DW	DW	DW	DW	DW
PE #1 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW

CONSULTANT

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BALTIMORE, MARYLAND 21217

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REVISIONS			
D	ADD PEDS NORTH AND WEST APPROACHES 11/28/94		
C	PED LINE REVISION NO. 2 RELOCATE POLES NW AND SE CORNERS - EASEMENT 7/6/93		
B	MODIFY SIGNAL: ADD EB LEFT TURN LANE 12/4/92	F	GEOMETRIC MODIFICATION PED SIGNALS EAST & SOUTH LEGS MAY, 1999
A	INSTALL SECOND WB LEFT TURN LANE 7/12/90	E	GEOMETRIC MODIFICATION SHA CONT. NO. M8718B5176 MARCH, 1997

APPROVALS

ORIGINAL

PROJECT MANAGER, SIGNAL DESIGN SECTION

ON

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

FILE

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

LOG MILE: 15009704.64

DRAWN BY: LES TOWNSEND
DES. BY: LES TOWNSEND
CHK. BY:

MD 97 (GEORGIA AVE.) FROM MASON ST. TO EPPING RD.
GENERAL INFORMATION SIGNAL PLAN FOR
MD 97 @ RANDOLPH ROAD

COUNTY: MONTGOMERY

DATE: 4-26-72 F.A.P. NO. SEE TITLE SHEET
SCALE: 1" = 20' S.H.A. NO. M 826-378

TS/STD. NO. TS-2392E

SHEET NO. 67 OF

M:\0192122.H\GP02RNDP.DGN