F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD		1	2

PROJECT DESCRIPTION

I GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 108 AND PHELPS LUCK DRIVE/ CENTRE PARK DR. IN HOWARD COUNTY, MD. 108 IS ASSUMED TO TRAVEL IN AN EAST-WEST DIRECTION.

MD 108 IS ASSUMED TO TRAVEL IN AN EAST-WEST DIRECTION

II INTERSECTION OPERATION

THIS INTERSECTION SHALL OPERATE IN A FULL-TRAFFIC-ACTUATED SIX PHASE OPERATION. MD 108 HAS EXCLUSIVE / PERMISSIVE LEFT-TURN PHASES. THERE IS AN ALTERNATE PEDESTRIAN MOVEMENT ON PHASE 3. PHELPS LUCK DR. AND CENTRE PARK DR. SHALL BE MODIFIED FOR A SPLIT PHASE OPERATION. CENTRE PARK DR. RIGHT TURN WILL BE AN EXCLUSIVE/ PERMISSIVE MOVEMENT AND SHALL OPERATE AS AN OVERLAP WITH PHASE 5 (MD 108 EASTBOUND EXCLUSIVE LEFT TURN).

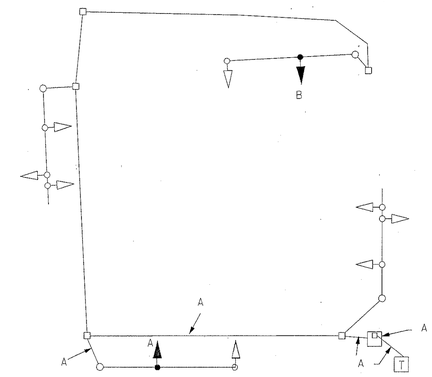
III SPECIAL NOTE

1. ALL INTERNAL WIRING TO THE CONTROLLER WILL BE PERFORMED BY THE SIGNAL SHOP. CONTACT MR. ED RODENHIZER AT (410) 787-7652, SEVENTY-TWO (72) HOURS IN ADVANCE OF THE INTENDED WORK.

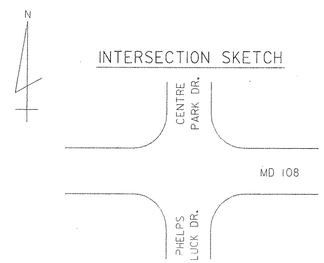
WIRING KEY

A - 7 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE
B EXISTING CABLE TO BE UTILIZED

WIRING DIAGRAM



INTERSECTION SKETCH



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	34	35
PHASE 1+5	—G R	◄G R	R	◄G R	◄G R	R	R	R	R	R	R	R —G►	DW	DW	DW	DW
1+5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 1+6 OR 2+5 OR 2+6															
PHASE 1+6	—G G	◄G G	G	R	R	R	R	R	R	R	R	R —G►	DW	DW	DW	DW
1+6 CHANGE	—Y G	◄Y G	G	R	R	R	R	R	R	R	R	R —Y►	DW	DW G	DW	DW
PHASE 2+5	R	R	R	◄G G	◄G G	G	R	R	R	R	R	R	DW	DW	DW	DW
2+5 CHANGE	R	R	R	◄Y G	◄Y G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2+6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	WK	WK
PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	FL/WK	FL/WK
2+6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	◄G G	◄G G	G	R	R	R	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
ALT PHASE 3	R	R	R	R	R	R	◄G G	◄G G	G	R	R	R	WK	WK	DW	DW
PED CLEAR	R	R	R	R	R	R	◄G G	◄G G	G	R	R	R	FL/WK	FL/WK	DW	DW
ALT 3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	◄G G	◄G G	G —G►	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y —Y►	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

A. EQUIPMENT TO BE FURNISHED BY ADMINISTRATION

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
			GROUND MOUNTED SIGNS
9500	12.0	S.F.	FLAT SHEET ALUMINUM SIGN - YELLOW, ORANGE & SILVER 36"X36" S2-1 SIGN GROUND MOUNTED (1 EACH)
			FLAT SHEET ALUMINUM SIGN - WHITE/BLACK 21" X 15" M6-2 SIGN GROUND MOUNTED (1 EACH)
			OVERHEAD MOUNTED SIGNS
9500	36.0	S.F.	ASSOCIATED SHIELD ASSEMBLY "WEST - 108 - LEFT ARROW" 36" X 72" POLE MOUNTED (1 EACH)
			ASSOCIATED SHIELD ASSEMBLY "EAST - 108 - LEFT ARROW" 36" X 72" POLE MOUNTED (1 EACH)

EQUIPMENT LIST

B. EQUIPMENT TO BE FURNISHED / OR INSTALLED BY CONTRACTOR

UNIT	DESCRIPTION	UNIT	DESCRIPTION
1001	1	EA.	MAINTENANCE OF TRAFFIC
8045	8	EA.	PERMANENT PREFORMED PAVEMENT MARKING- LETTER
8045	3	EA.	PERMANENT PREFORMED PAVEMENT MARKING - ARROW
8011	2	EA.	INSTALL SIGNAL HEAD
8045	20	LF	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
8053	12	SF	INSTALL GROUND MOUNTED SIGN
8054	36	SF	INSTALL OVERHEAD MOUNTED SIGN
8061	1	EA.	REMOVAL AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT

UTILITY LEGEND

—G— —G—	GAS MAIN
—W— —W—	WATER MAIN
—S— —S—	SEWER MAIN
—E— —E—	ELECTRIC CABLES
—A— —A—	AERIAL CABLES
—T— —T—	TELEPHONE CABLES

REVISIONS

D REPLACE FAILED LOOP DETECTOR 4/94
SHA * AW 581-501-785
RLS | RD

C INSTALL E/P LEFT-TURN PHASING ON PHELPS LUCK DRIVE 7/92
MEL

B ASBUILT 7/92
REMOVE HJR, INTERCONNECT WITH HOWARD HIGH SCHOOL, AND INSTALL S1-1A SIGN
DBD | DJD | DAZ | ETP | TH

A S.H.A NO. 855-25003 8/17/84
REBUILD EXISTING SIGNAL DUE TO GEOMETRIC MODIFICATION
E.R.S

F RIGHT-TURN OVERLAP FOR SOUTHBOUND CENTRE PARK DR. 2/98
MEL

E SPLIT SIDE ROAD, OVERLAP RT. TURN FOR Ø 3+5 Ø 2 ALT. PED. MOVEMENT
SHA * 4/97
EMM

APPROVALS

ORIGINAL

CHIEF, SIGNAL DESIGN SECTION

ON

ASST. DISTRICT ENGINEER, TRAFFIC

FILE

CHIEF, TRAFFIC ENGINEERING DISION DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

Log Mile

SIGNAL #13010811.72

DRAWN BY: G.F.P.
DES. BY:
CHK. BY:

MD 108 AND PHELPS LUCK DRIVE

COUNTY: HOWARD

DATE: 12 /19 /80
SCALE:

F.A.P. NO.
S.H.A. NO. 2395512507706

TS/STD. NO. TS-1795 F-GI

SHEET NO. 2 OF 2

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