

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING SIGNAL TO ADD FOURTH LEG AND PEDESTRIAN HEADS, SIGNAGE AND PAVEMENT MARKING.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL CHANGE TO FEATURE SPLIT PHASING FOR THE MD 450 EASTBOUND APPROACH AND THE NEW NORTHBOUND APPROACH

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER AND CABINET ARE TO BE UTILIZED.

SPECIAL NOTE

ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL OVERHEAD AND UNDERGROUND UTILITIES IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE MDSA IMMEDIATELY. THE FOLLOWING

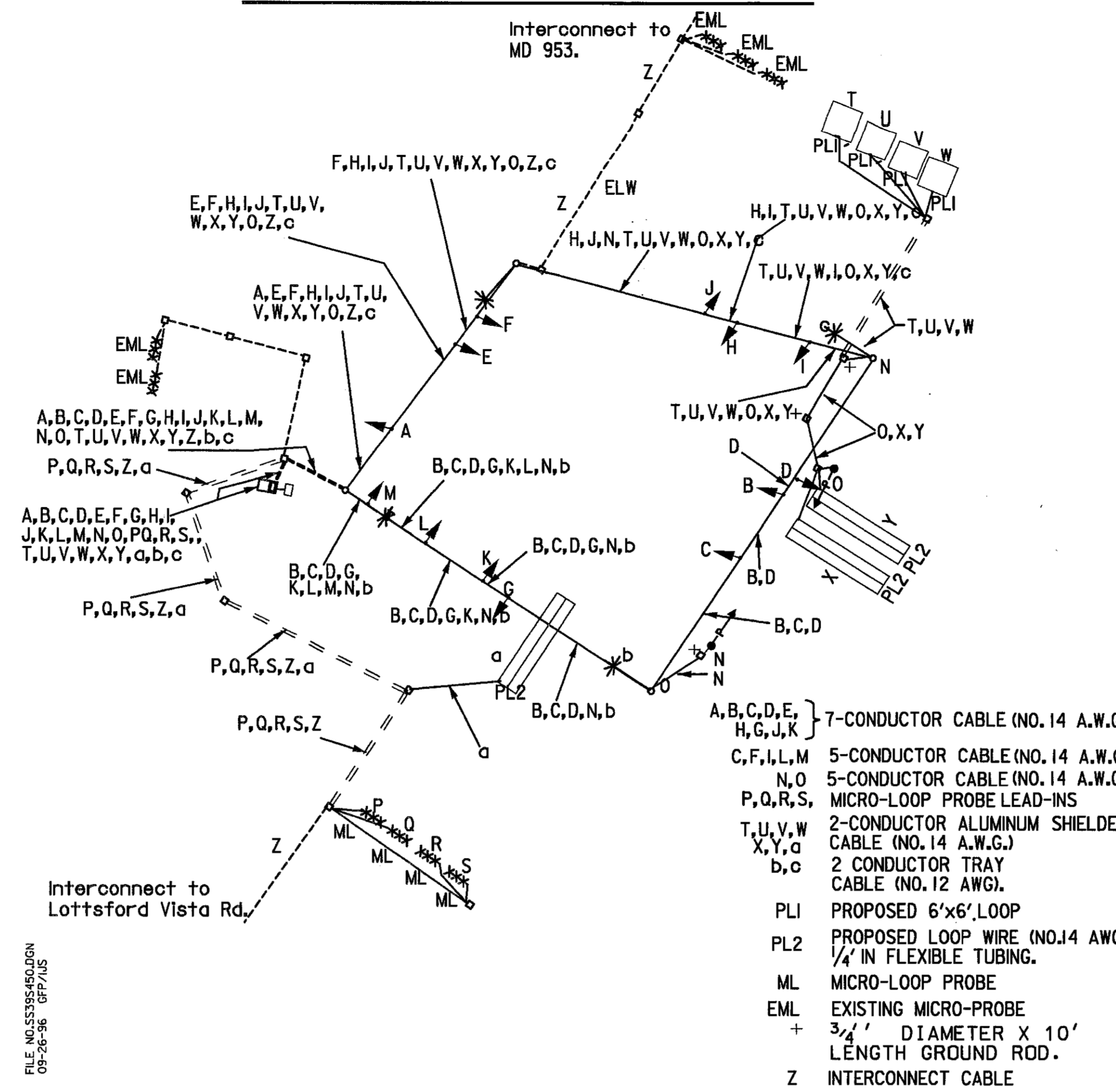
CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

PROJECT CONTACTS:

- MR. MAJID SHAJIB, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358
- MR. WAYNE MOWDY, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 513-7300
- MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (301) 513-7300
- MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
- MR. ROBERT SNYDER, ASSISTANT CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631
- MR. ED RODENHIZER, CHIEF OF SIGNAL SHOP
PHONE: (410) 787-7650

MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING STANDARD PROCEDURES FOR TRAFFIC CONTROL.

WIRING DIAGRAM



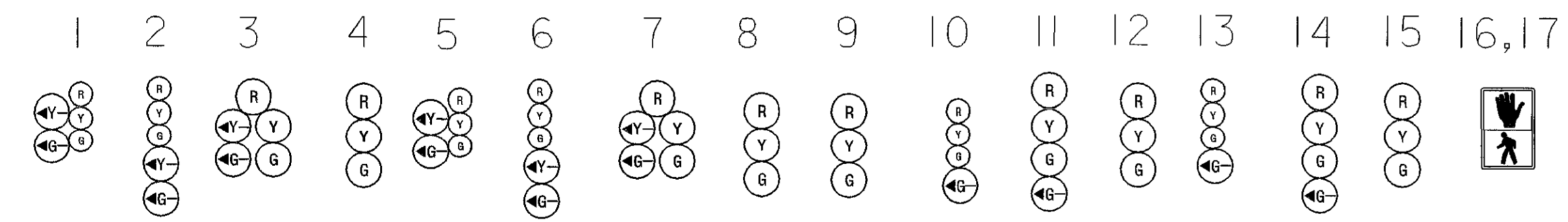
EQUIPMENT LIST "A"

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

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

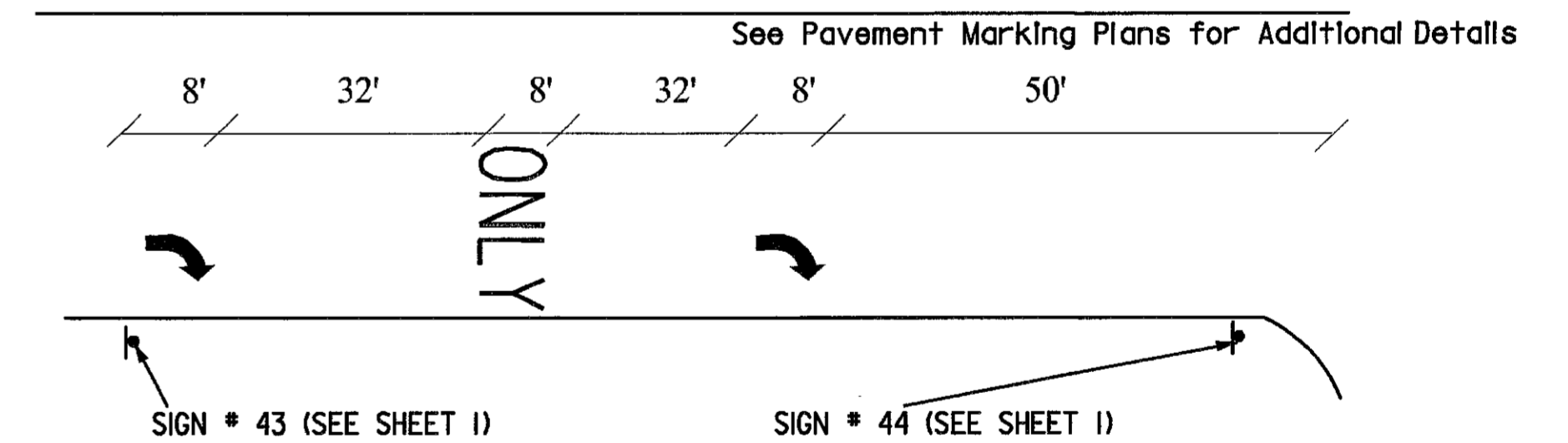
SPEC. SECTION CODE NO.	CATEGORY	DESCRIPTION	UNITS	QUANTITY
104	120500	MAINTENANCE OF TRAFFIC.	LS	1
553	585426	FURNISH AND INSTALL LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING LETTER.	EACH	4
553	585428	FURNISH AND INSTALL LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING ARROW.	EACH	2
556	585620	FURNISH AND INSTALL 12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).	LF	120
556	585624	FURNISH AND INSTALL 24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP BAR).	LF	90
556	585616	FURNISH AND INSTALL 5" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (LANE MARKING).	LF	700
805	805011	FURNISH AND INSTALL 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE.	LF	20
805	805125	FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.	LF	250
804	837001	FURNISH AND INSTALL GROUND ROD - 3/4" DIAMETER X 10' LENGTH.	EACH	4
810	861104	FURNISH AND INSTALL 2 CONDUCTOR (ALUMINUM SHIELDED).	LF	250
805	805135	FURNISH AND INSTALL 3" SCHEDULE RIGID PVC CONDUIT - TRENCHED.	LF	200
810	861106	FURNISH AND INSTALL ELECTRICAL CABLE 3 CONDUCTOR (NO. 14 AWG).	LF	200
810	861107	FURNISH AND INSTALL ELECTRICAL CABLE 5 CONDUCTOR (NO. 14 AWG).	LF	400
810	861108	FURNISH AND INSTALL ELECTRICAL CABLE 7 CONDUCTOR (NO. 14 AWG).	LF	700
810	862101	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG).	LF	2500
810	818004	FURNISH AND INSTALL 10' BREAKAWAY PEDESTAL POLE.	EACH	2
811	811002	REMOVE ELECTRICAL HANDHOLE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT.	LS	1
810	810555	FURNISH AND INSTALL MICROLOOP PROBE, 1000' LEAD IN CABLE.	EACH	5
811	811001	FURNISH AND INSTALL ELECTRICAL HAND HOLE.	EACH	1
812	801106	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4" X 6".	LF	48
813	813014	FURNISH AND INSTALL GROUND MOUNTED SIGN.	SF	66
813	813015	FURNISH AND INSTALL OVERHEAD SIGN.	SF	53
814	860264	FURNISH AND INSTALL 12" PEDESTAL SIGNAL HEAD SECTION - PEDESTAL MOUNT.	EACH	4
814	860272	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION.	EACH	41
814	860270	FURNISH AND INSTALL 8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION.	EACH	18
815	862102	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR).	LF	800
818	867105	FURNISH AND INSTALL 12" X 32" STRAIN POLE.	EACH	2
819	869101	FURNISH AND INSTALL TETHER WIRE - 1/4" DIAMETER.	LF	200
819	869102	FURNISH AND INSTALL STEEL SPAN WIRE - 3/8" DIAMETER.	LF	200
806	806002	FURNISH AND INSTALL 250 WATT H.P.S. LAMP & LUMINAIRE, RECTANGULAR.	EACH	2
810	851116	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG).	LF	400
807	807110	FURNISH AND INSTALL ELECTRICAL SERVICE DISTRIBUTION CABINET.	EACH	1
806	815230	FURNISH AND INSTALL 4 INCH SCHEDULE 80 MULTI-DUCT PVC CONDUIT - DIRECTIONAL BORED/LF	LF	150

PHASE DIAGRAM



PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16,17
PHASE 1+5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW
I+5 CHANGE TO PHASE 1+6, PHASE 2+5, OR PHASE 2+6																
PHASE 1+6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	DW
1 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	DW
PHASE 2+5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW
5 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW
PHASE 2 + 6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	WK
PED CLEAR	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	FL/WK
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	DW
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW
FLASHING OPERATION	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	DARK

RIGHT LANE ONLY MARKING DETAIL



O. R. GEORGE & ASSOCIATES, INC.
Traffic Engineers - Transportation Planners
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Lanham, MD 21076
(301) 794-7700

REVISIONS	APPROVALS
<p>FEBRUARY 2005-ORR MODIFIED SIGNAL, ADDED NEW APPROACH (SOUTHSIDE)</p> <p>AUGUST 1996 - WTB MODIFY EXISTING SIGNAL SHA NO. P0500571</p>	<p>ASST. DIVISION CHIEF, TRAFFIC</p> <p>ASST. DISTRICT ENGINEER, TRAFFIC</p> <p>CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>DIRECTOR, OFFICE OF TRAFFIC & SAFETY</p>

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

MD 450 (ANNAPOLIS ROAD) AT MD 704 (MARTIN LUTHER KING JR. HWY)

LOG MILE NO. 16045007.35 DATE 2 / 6 / 91

DRAWN BY: D. A. NIES
CHECK BY: D. DODD, T. Z. W. / E. MLESKY, 7/26/91

F.A.P. NO. SEE TITLE SHEET
S.H.A. NO. P-981-451-385

PLAN SHEET NO.: 15-367B
SHEET NO. 2 OF 2