PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT MD 24 AND BYNUM ROAD/RED PUMP ROAD IN HARFORD COUNTY. MD 24 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. THE MODOFICATION INCLUDES CHANGING THE EXCLUSIVE/PERMISSIVE LEFT TURNS ON MD 24 (NB & SB) TO EXCLUSIVE LEFT TURNS.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT PHASE, FULLY-ACTUATED MODE WITH THE MD 24 APPROACHES RUNNING CONCURRENTLY AND THE BYNUM ROAD/RED PUMP ROAD APPROACHES RUNNING CONCURRENTLY.

ONLY EXCLUSIVE LEFT-TURN PHASES ARE PROVIDED FROM BOTH NORTHBOUND AND SOUTHBOUND MD 24. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASES ARE PROVIDED FOR BYNUM ROAD/RED PUMP ROAD APPROACHES.

MAINTENANCE OF TRAFFIC

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE PROJECT.

STANDARD NO. MD-104.00-104.00-12
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
STANDARD NO. MD-104.49-01 (SHOULDER WORK)
STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT #4:

MR. DAVE MALKOWSKI
DISTRICT ENGINEER
PHONE: (410) 321-2810

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

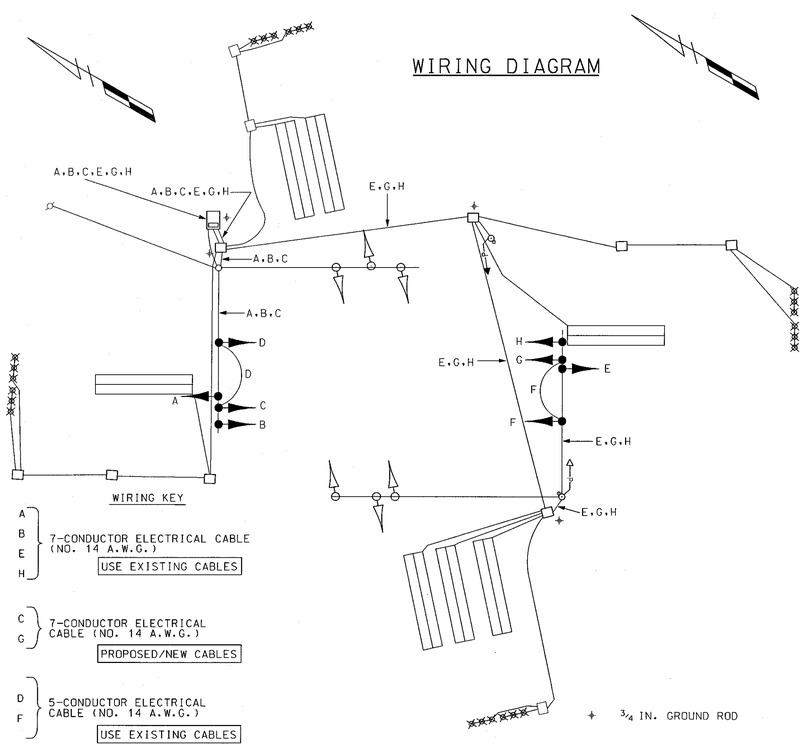
MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MS. SUENETTE POPE
ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 321-2841

CONTACT PERSONS FOR DISTRICT #4:

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM



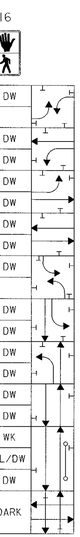
EQUIPMENT LIST "A"

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE S.H.A.

ITEM NO.	QUANTITY	DESCRIPTION
-	1 EA.	MAINTENANCE OF TRAFFIC
-	450 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)
-	10 S.F.	INSTALL OVERHEAD SIGN (MAST ARM MOUNTED)
9000	1 EA.	REMOVE AND DISPOSE OF EXISTING MATERIAL PER ASSIGNMENT
9000	24 EA.	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION (POLYCARBONATE AND BLACK-FACED)
9571	10 S.F.	FLAT SHEET ALUMINUM SIGN TO CONSIST OF: - TWO (2) R10-5, 24" X 30" - "LEFT ON GREEN ARROW ONLY".

PHASE CHART

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



REVISIONS

(E) CHANGE E/P LT TO EXCLUSIVE ON NB&SB MD 24 — S.H.A. No.: SF-SIGNALS 6/2004 — NML | MAR | DAZ | BRK | NML

(G) RECONSTRUCT TRAFFIC SIGNAL DUE TO GEOMETRIC IMPROVEMENTS 3/97

(F) MOD. DUE TO WIDENING AT RED PUMP ROAD 4/97 — JWE

APPROVALS

ORIGINAL

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ON

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

FILE

DIRECTOR, TRAFFIC & SAFETY

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

MD 24 AND BYNUM RD/RED PUMP RD

GENERAL INFORMATION PLAN

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO. TS-833	SHEET NO.
CHECKED BY: T.HANNAN	S.H.A. NO. HA-116-5176		
SCALE: 1" = 20'	COUNTY: HARFORD	T.I.M.S. NO. G-284	2 OF 2
DATE:	LOG MILE: 12002411.81		