PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL. LOCATED AT THE INTERSECTION OF MD 702 AND OLD EASTERN AVE. IN BALTIMORE COUNTY. A HAZARD IDENTIFICATION BEACON WILL BE INCORPORATED IN TO THE EXISTING TRAFFIC CONTROL SIGNAL WITH ALL NEW TRAFFIC SIGNAL HEADS, UPGRADED TO BLACK-FACE SIGNAL HEADS, NEW CAMERA DETECTION AND R10-12 SIGNS ADDED TO THE SIDE STREETS AT THIS INTERSECTION.

MD 702 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA (6) SIX PHASE, FULL- TRAFFIC-ACTUATED MODE, WITH A PUSHBUTTON ACTUATED PEDESTRIAN MOVEMENT TO CROSS SOUTH LEG OF MD 702. MD 702 THRU APPROACHES SHALL OPERATE CONCURRENTLY ALONG WITH EXCLUSIVE LEFT TURNS FOR BOTH S.B. AND N.B. APPROACHES. THE SIDE STREETS OF OLD EASTERN AVE. WILL OPERATE CONCURRENTLY.

SPECIAL NOTE

THE SIGNAL SHOP SHALL INCREASE THE RED CLEARANCE INTERVAL FROM 1.0 SECONDS TO 2.0 SECONDS FOR MD 702.

EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM	QUANTITY		DESCRIPTION
9030	1	EA	27 FT MAST ARM POLE w/ 60 FT MAST ARM
9571	80	SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN(S)
	2	EA	R10-12 36"x 42" MAST ARM MOUNTED
	1	EA	W3-3(2) 120"x 60" MAST ARM MOUNTED(FLORESENT/YELLOW)
	1	EA	W3-3 36"x 36" POLE MOUNTED
9086	1	EA	VIDEO INTERFACE EQUIPMENT

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

ITEM	QUANTITY		DESCRIPTION
1001	2	EA	MAINTENANCE OF TRAFFIC
2002	1	CY	TEST PIT EXCAVATION
5001	900	LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH
5005	700	LF	12 IN WHT HEAT APP THERMO PAVE MARK
5006	200	LF	24 IN WHT HEAT APP THERMO PAVE MARK
6000	300	LF	TO BE NEG.- REMOVE AND RESET EXISTING TRAFFIC BARRIER
8000	2	EA	TO BE NEG.- LED FLASHING YELLOW SIGNAL HEADS-BLACK FACED
8000	1400	LF	TO BE NEG.- ELECTRICAL CABLE - 7 CONDUCTOR (NO 12 AWG)
8001	3	CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION (NOTE; 4-2" ANCHOR BOLTS TO BE SUPPLIED BY THE CONTRACTOR)
8002	4	EA	F&I 12 IN PED SIG HEAD SECTION
8009	2	EA	FURNISH AND INSTALL 300' VIDEO CABLE TO CONTROLLER
8011	2	EA	FURNISH AND INSTALL 500' VIDEO CABLE TO CONTROLLER
8013	1	EA	INSTALL STEEL POLE & SINGLE MAST ARM (AS)
8029	1500	LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8038	700	LF	FURNISH AND INSTALL 3" PVC SCH 80 CONDUIT-TRENCHED
8052	6	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	80	SF	INSTALL OVERHEAD SIGN
8056	4	EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
8073	1	EA	FURNISH AND INSTALL GROUND ROD -3/4INCH DIAMETER X 10 FOOT LENGTH
8075	39	EA	FURNISH AND INSTALL 12 IN VEH SIG HEAD SECTION
8084	325	LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO 14 AWG)

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANCE DISTRICT ENGINEER-TRAFFIC
PHONE: 410-321-2781/2885

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

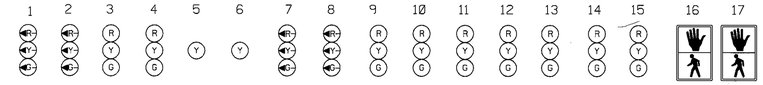
MR. ED RODENHIZER
CHIEF, SIGNAL OPERATION SECTION
PHONE: 410-787-7652

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

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

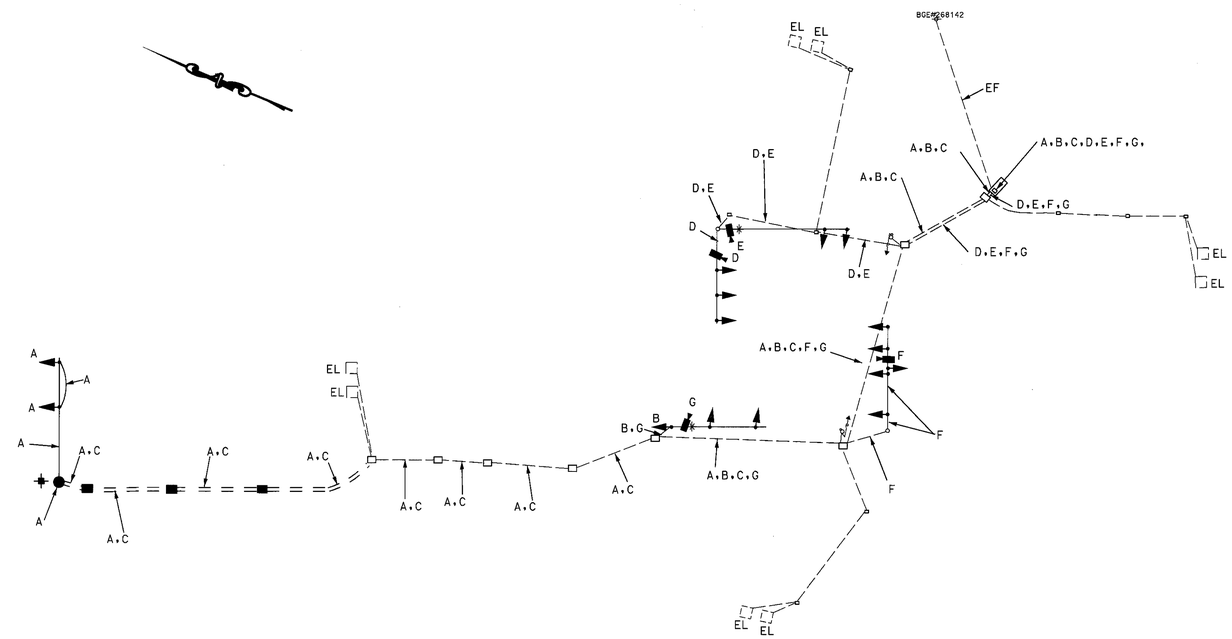
MR. ROBERT SNYDER
ASST. CHIEF,
TRAFFIC OPERATION DIVISION
PHONE: 410-787-7631

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Phase 1 & 5	◄G-	◄G-	R	R	FL/Y	FL/Y	◄G-	◄G-	R	R	R	R	R	R	R	DW	DW
1 & 5 change to 1 & 6 or 2 & 5 or 2 & 6																	
Phase 1 & 6	◄G-	◄G-	G	G	FL/Y	FL/Y	◄R-	◄R-	R	R	R	R	R	R	R	DW	DW
1 change	◄Y-	◄Y-	Y	Y	FL/Y	FL/Y	◄R-	◄R-	R	R	R	R	R	R	R	DW	DW
Phase 2 & 5	◄R-	◄R-	R	R	FL/Y	FL/Y	◄G-	◄G-	G	G	G	R	R	R	R	DW	DW
5 change	◄R-	◄R-	R	R	FL/Y	FL/Y	◄Y-	◄Y-	G	G	G	R	R	R	R	DW	DW
Phase 2 & 6	◄R-	◄R-	G	G	DARK	DARK	◄R-	◄R-	G	G	G	R	R	R	R	DW	DW
2 & 6 change	◄R-	◄R-	Y	Y	FL/Y	FL/Y	◄R-	◄R-	Y	Y	Y	R	R	R	R	DW	DW
Phase 4 & 8 ALT	◄R-	◄R-	R	R	FL/Y	FL/Y	◄R-	◄R-	R	R	R	G	G	G	G	WK	WK
PED-CLEARANCE	◄R-	◄R-	R	R	FL/Y	FL/Y	◄R-	◄R-	R	R	R	G	G	G	G	FL/DW	FL/DW
4 & 8 ALT change	◄R-	◄R-	R	R	FL/Y	FL/Y	◄R-	◄R-	R	R	R	Y	Y	Y	Y	DW	DW
Phase 4 & 8	◄R-	◄R-	R	R	FL/Y	FL/Y	◄R-	◄R-	R	R	R	G	G	G	G	DW	DW
4 & 8 change	◄R-	◄R-	R	R	FL/Y	FL/Y	◄R-	◄R-	R	R	R	Y	Y	Y	Y	DW	DW
Flashing Operation	FL/◄R	FL/◄R	FL/Y	FL/Y	DARK	DARK	FL/◄R	FL/◄R	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A — 7 CONDUCTOR (NO.12 AWG)
B — 7 CONDUCTOR (NO.14 AWG)
C — STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
D,E — 300 FT. VIDEO CABLE
F,G — 500 FT. VIDEO CABLE
EL — EXISTING LOOP-WIRE
✚ — GROUND ROD

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CONSULTING ENGINEERS
9220 RUMSEY ROAD; SUITE 110
COLUMBIA, MARYLAND 21045
(410)-884-3607

SHA #: BA 445A53/B53 TOD #: AT357-13

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

MD 702 AND OLD EASTERN AVE.

DRAWN BY: M. A. MEARS	F.A.P. NO.		TS NO. 1220B	SHEET NO.
CHECKED BY: R. MILSTEAD	S.H.A. NO.	AT 3575185		
SCALE: NONE	COUNTY:	BALTIMORE	T.I.M.S. NO. F780	2 OF 2
DATE: 11/05/03	LOG MILE:	03070202.01		