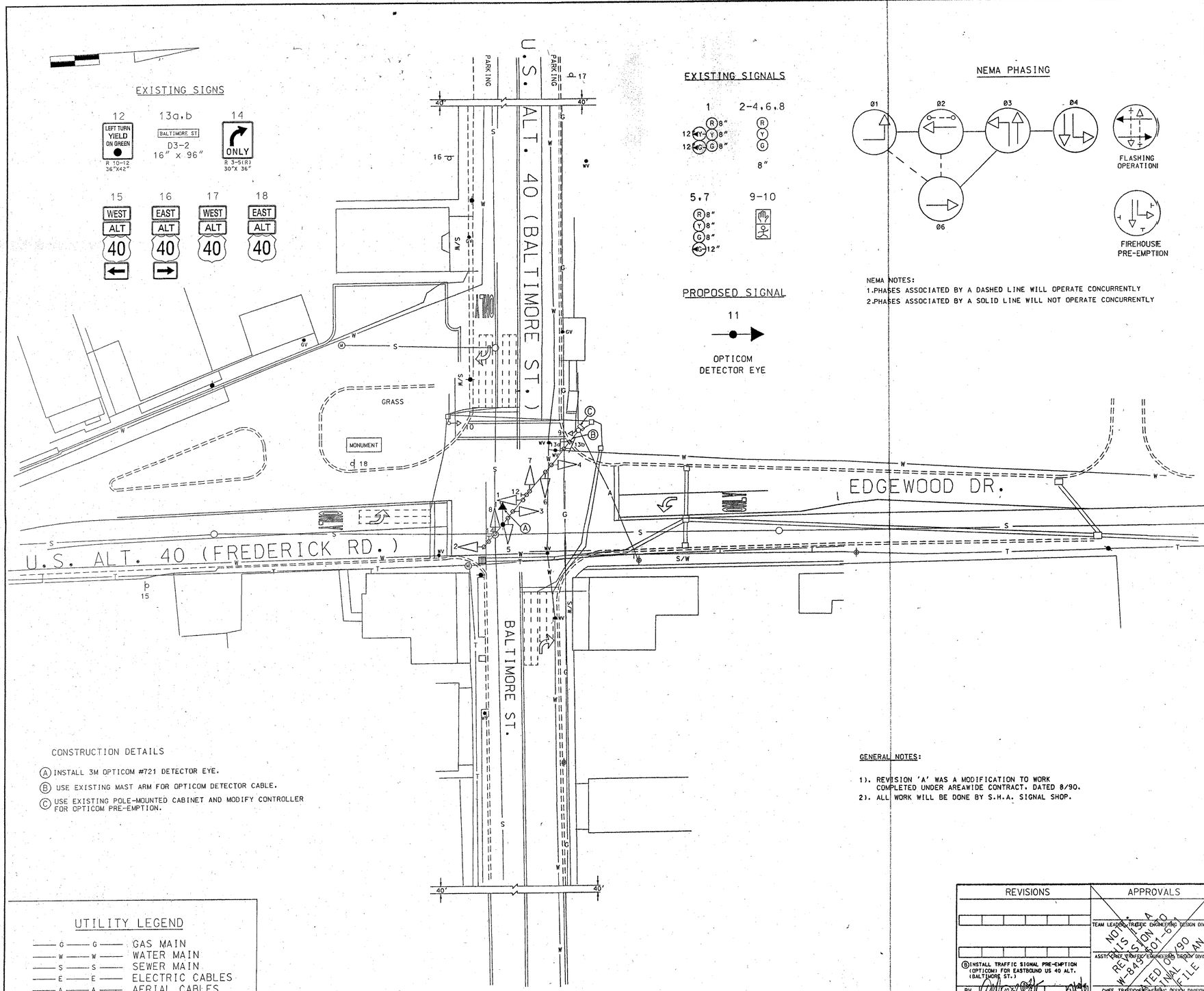


EXISTING SIGNALS

PROPOSED SIGNAL

OPTICOM DETECTOR EYE

NEMA PHASING

NEMA NOTES:
1.PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

PROJECT DESCRIPTION

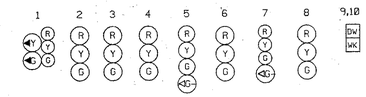
This Project involves the installation of emergengy services (Traffic Signal Pre-Emption - Opticom) at the intersection of US 40 Alt.(Baltimore Street) and US 40 Alt./Edgewood Drive in Washington County.
US 40 Alt. is assumed to run in a East-West direction.

EQUIPMENT LIST A

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

ITEM NOS.	QUANTITY	UNIT	SPEC. SECTION	DESCRIPTION
9000	1	EACH	820	"D" PANEL WITH HARNESS
9001	1	EACH	820	OPTICOM DETECTOR EYE
9008	1	EACH	820	760 OPTICOM DETECTOR RACK
9009	1	EACH	820	OPTICOM DISCRIMINATION MODULE (762)
9000	80	L.F.	820	4-CONDUCTOR OPTICOM DETECTOR CABLE
9000	3	EACH	820	3M OPTICOM EMITTER SYSTEM 700 SERIES VISIBLE LIGHT FILTER AND HARDWARE

PHASE CHART

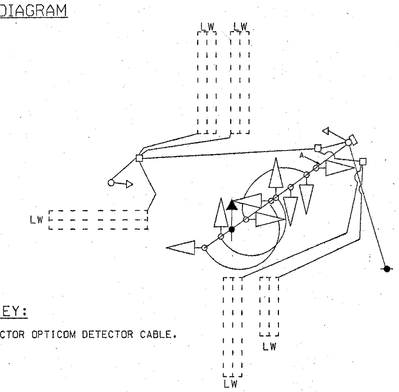


	1	2	3	4	5	6	7	8	9,10
Phase 1 & 6	◄G-G	G	R	R	R	G	R	R	DW
1 Change	◄Y-G	G	R	R	R	R	R	R	DW
Phase 2 & 6	G	G	G	G	R	R	R	R	WK
Ped. Clear	G	G	G	G	R	R	R	R	FL/DW
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	DW
Phase 3	R	R	R	R	◄G-G	G	R	R	DW
3 Change	R	R	R	R	Y	Y	R	R	DW
Phase 4	R	R	R	R	R	R	◄G-G	G	DW
4 Change	R	R	R	R	R	R	Y	Y	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK

FIREHOUSE PRE-EMPTION

Pre-emption Phase	R	R	R	R	R	R	R	◄G-G	G	DW
Pre-emption Clearance	R	R	R	R	R	R	R	Y	Y	DW
Normal Operation Phase 2 & 6	G	G	G	G	R	R	R	R	R	DW

WIRING DIAGRAM



WIRING KEY:

A - 4 CONDUCTOR OPTICOM DETECTOR CABLE.

CONSTRUCTION DETAILS

(A) INSTALL 3M OPTICOM #721 DETECTOR EYE.
(B) USE EXISTING MAST ARM FOR OPTICOM DETECTOR CABLE.
(C) USE EXISTING POLE-MOUNTED CABINET AND MODIFY CONTROLLER FOR OPTICOM PRE-EMPTION.

GENERAL NOTES:

1). REVISION 'A' WAS A MODIFICATION TO WORK COMPLETED UNDER AREAWIDE CONTRACT. DATED 8/90.
2). ALL WORK WILL BE DONE BY S.H.A. SIGNAL SHOP.

UTILITY LEGEND

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

REVISIONS

(B) INSTALL TRAFFIC SIGNAL PRE-EMPTION (OPTICOM) FOR EASTBOUND US 40 ALT. (BALTIMORE ST.)
BV
A - 08/90
SIDE SPLIT PHASING
WM

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY

NOTICE A REVISION TO W-849-501-671 DATED 8/90 IS AN ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
U.S. 40 ALT. (BALTIMORE ST.)
& U.S. 40 ALT. (EDGEWOOD DR.)

DRAWN BY: W. MALCOLM	F.A.P. NO.		TS NO. TS-3067	SHEET NO.
CHECKED BY: E.M. SIMMERS	S.H.A. NO.	W-849-501-671		
SCALE: 1"=20'	COUNTY:	WASHINGTON	T.I.M.S. NO. E-057	1 OF 1
DATE: 08/90	LOG MILE:			