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

EXISTING SIGNALS & SIGNS

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	◄G-R	◄G-R	R	◄G-R	◄G-R	R	R	R	R	R	R	R
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 1 & 6, 2 & 5, OR 2 & 6											
PHASE 1 & 6	R	R	R	◄G-G	◄G-G	G	R	R	R	R	R	R
1 CHANGE	R	R	R	◄Y-G	◄Y-G	G	R	R	R	R	R	R
PHASE 2 & 5	◄G-G	◄G-G	G	R	R	R	R	R	R	R	R	R
2 CHANGE	◄Y-G	◄Y-G	G	R	R	R	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	◄G-G	◄G-G	G	R	R	R
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	◄G-G	◄G-G	R
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y
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

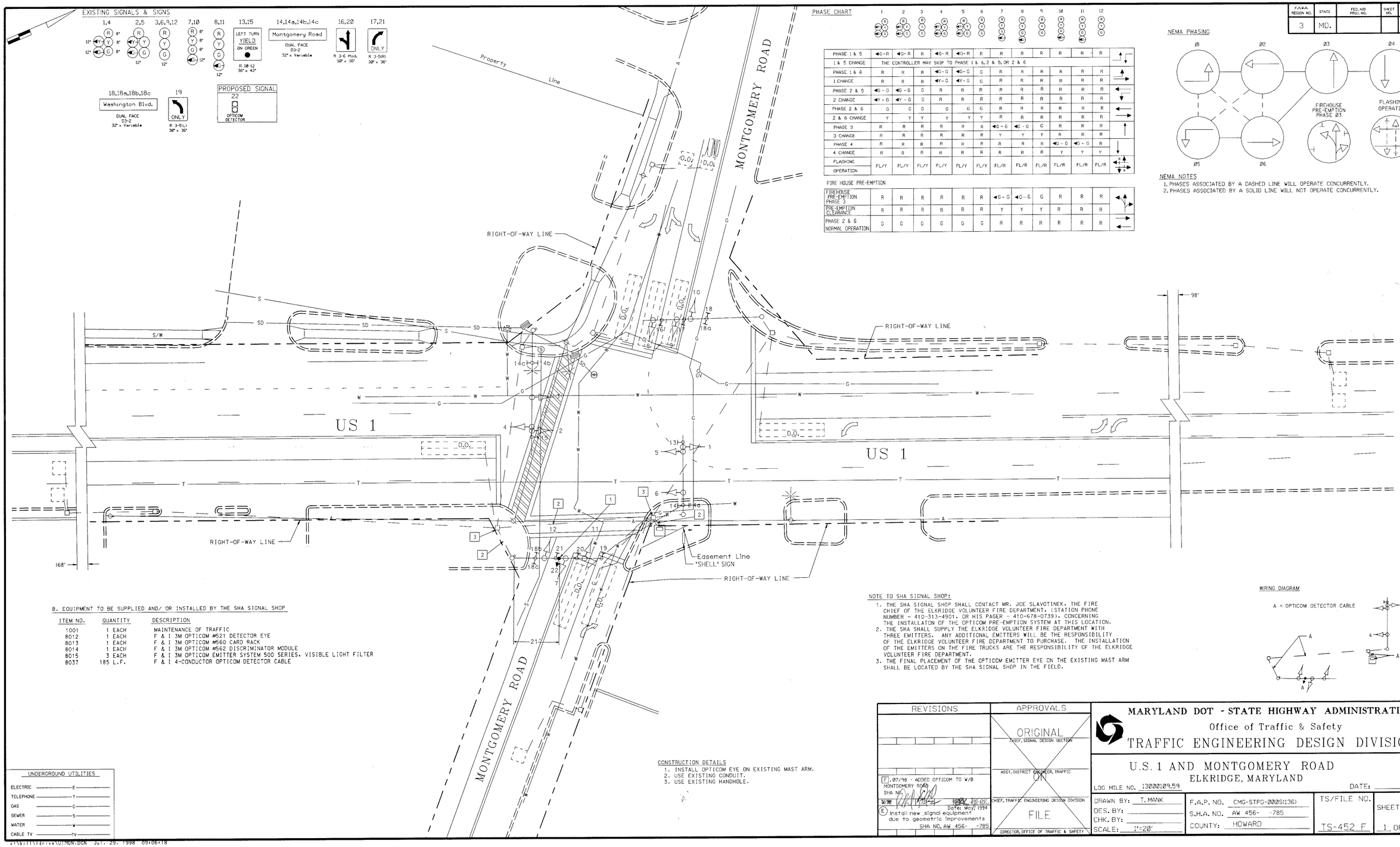
FIRE HOUSE PRE-EMPTION

FIREHOUSE PRE-EMPTION PHASE 3	R	R	R	R	R	R	◄G-G	◄G-G	G	R	R	R
PRE-EMPTION CLEARANCE	R	R	R	R	R	R	Y	Y	Y	R	R	R
PHASE 2 & 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	R	R	R	R

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.



B. EQUIPMENT TO BE SUPPLIED AND/ OR INSTALLED BY THE SHA SIGNAL SHOP

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8012	1 EACH	F & I 3M OPTICOM #521 DETECTOR EYE
8013	1 EACH	F & I 3M OPTICOM #560 CARD RACK
8014	1 EACH	F & I 3M OPTICOM #562 DISCRIMINATOR MODULE
8015	3 EACH	F & I 3M OPTICOM EMITTER SYSTEM 500 SERIES, VISIBLE LIGHT FILTER
8037	185 L.F.	F & I 4-CONDUCTOR OPTICOM DETECTOR CABLE

NOTE TO SHA SIGNAL SHOP:

1. THE SHA SIGNAL SHOP SHALL CONTACT MR. JOE SLAVOTINEK, THE FIRE CHIEF OF THE ELKRIDGE VOLUNTEER FIRE DEPARTMENT, (STATION PHONE NUMBER - 410-313-4901, OR HIS PAGER - 410-678-0739), CONCERNING THE INSTALLATION OF THE OPTICOM PRE-EMPTION SYSTEM AT THIS LOCATION.
2. THE SHA SHALL SUPPLY THE ELKRIDGE VOLUNTEER FIRE DEPARTMENT WITH THREE EMITTERS. ANY ADDITIONAL EMITTERS WILL BE THE RESPONSIBILITY OF THE ELKRIDGE VOLUNTEER FIRE DEPARTMENT TO PURCHASE. THE INSTALLATION OF THE EMITTERS ON THE FIRE TRUCKS ARE THE RESPONSIBILITY OF THE ELKRIDGE VOLUNTEER FIRE DEPARTMENT.
3. THE FINAL PLACEMENT OF THE OPTICOM EMITTER EYE ON THE EXISTING MAST ARM SHALL BE LOCATED BY THE SHA SIGNAL SHOP IN THE FIELD.

WIRING DIAGRAM

A = OPTICOM DETECTOR CABLE

CONSTRUCTION DETAILS

1. INSTALL OPTICOM EYE ON EXISTING MAST ARM.
2. USE EXISTING CONDUIT.
3. USE EXISTING HANDHOLE.

UNDERGROUND UTILITIES

ELECTRIC — E
TELEPHONE — T
GAS — G
SEWER — S
WATER — W
CABLE TV — TV

REVISIONS

(F) 07/98 - ADDED OPTICOM TO W/B MONTGOMERY ROAD
SHA NO.
(E) Install new signal equipment due to geometric improvements
Date: May 1994
SHA NO. AW 456- -785

APPROVALS

ORIGINAL
CHIEF, SIGNAL DESIGN SECTION
ASST. DISTRICT ENGINEER, TRAFFIC
ON FILE
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

U.S. 1 AND MONTGOMERY ROAD

ELKRIDGE, MARYLAND

LOG MILE NO. 13000109.59

DATE:

DRAWN BY: T. MANK
DES. BY:
CHK. BY:
SCALE: 1"=20'

F.A.P. NO. CMG-STPG-000S(136)
S.H.A. NO. AW 456- -785
COUNTY: HOWARD

TS/FILE NO. TS-452 F

SHEET NO. 1 OF 1

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