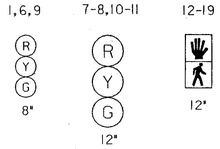
PROPOSED SIGNAL HEADS



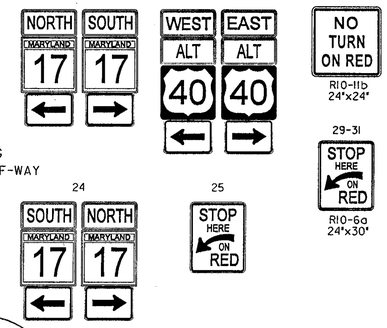
US 40 ALT IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

VIDEO DETECTION

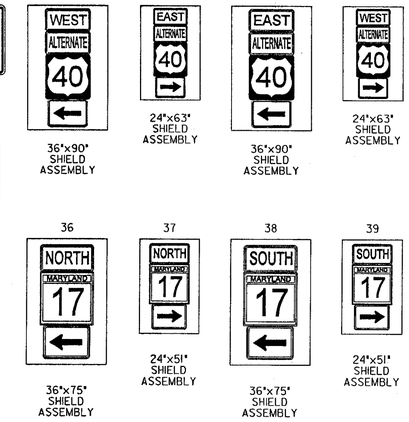
a-b

EXISTING SIGNS TO REMAIN

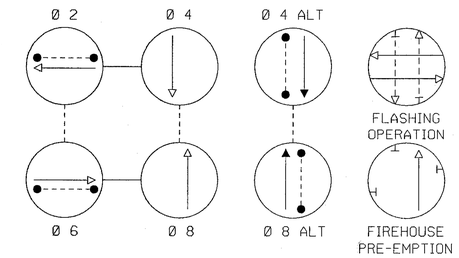
SIGNS TO BE REMOVED



SIGNS TO BE INSTALLED

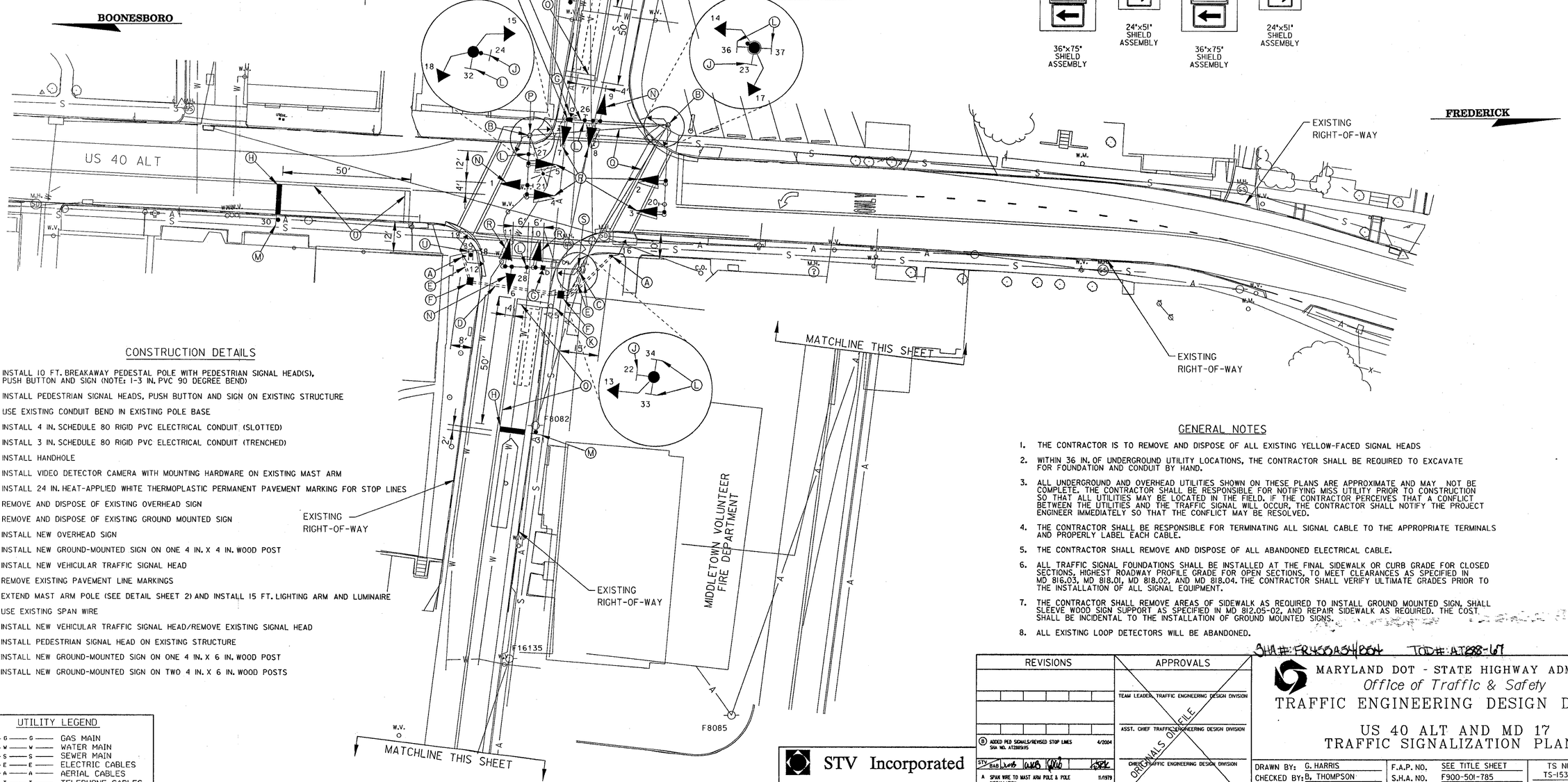


NEMA PHASING



PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

A. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD(S), PUSH BUTTON AND SIGN (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
B. INSTALL PEDESTRIAN SIGNAL HEADS, PUSH BUTTON AND SIGN ON EXISTING STRUCTURE
C. USE EXISTING CONDUIT BEND IN EXISTING POLE BASE
D. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED)
E. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
F. INSTALL HANDHOLE
G. INSTALL VIDEO DETECTOR CAMERA WITH MOUNTING HARDWARE ON EXISTING MAST ARM
H. INSTALL 24 IN. HEAT-APPLIED WHITE THERMOPLASTIC PERMANENT PAVEMENT MARKING FOR STOP LINES
J. REMOVE AND DISPOSE OF EXISTING OVERHEAD SIGN
K. REMOVE AND DISPOSE OF EXISTING GROUND MOUNTED SIGN
L. INSTALL NEW OVERHEAD SIGN
M. INSTALL NEW GROUND-MOUNTED SIGN ON ONE 4 IN. X 4 IN. WOOD POST
N. INSTALL NEW VEHICULAR TRAFFIC SIGNAL HEAD
O. REMOVE EXISTING PAVEMENT LINE MARKINGS
P. EXTEND MAST ARM POLE (SEE DETAIL SHEET 2) AND INSTALL 15 FT. LIGHTING ARM AND LUMINAIRE
Q. USE EXISTING SPAN WIRE
R. INSTALL NEW VEHICULAR TRAFFIC SIGNAL HEAD/REMOVE EXISTING SIGNAL HEAD
S. INSTALL PEDESTRIAN SIGNAL HEAD ON EXISTING STRUCTURE
T. INSTALL NEW GROUND-MOUNTED SIGN ON ONE 4 IN. X 6 IN. WOOD POST
U. INSTALL NEW GROUND-MOUNTED SIGN ON TWO 4 IN. X 6 IN. WOOD POSTS

GENERAL NOTES

1. THE CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL EXISTING YELLOW-FACED SIGNAL HEADS
2. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
3. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLE.
6. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
7. THE CONTRACTOR SHALL REMOVE AREAS OF SIDEWALK AS REQUIRED TO INSTALL GROUND MOUNTED SIGN. SHALL SLEEVE WOOD SIGN SUPPORT AS SPECIFIED IN MD 812.05-02, AND REPAIR SIDEWALK AS REQUIRED. THE COST SHALL BE INCIDENTAL TO THE INSTALLATION OF GROUND MOUNTED SIGNS.
8. ALL EXISTING LOOP DETECTORS WILL BE ABANDONED.

UTILITY LEGEND

—G—G—	GAS MAIN
—W—W—	WATER MAIN
—S—S—	SEWER MAIN
—E—E—	ELECTRIC CABLES
—A—A—	AERIAL CABLES
—T—T—	TELEPHONE CABLES
—FO—FO—	FIBRE OPTIC CABLES

SHA#: FR165A34PDM TOD#: AT888-67

REVISIONS			
B	ADDED PED SIGNALS/REVISED STOP LINES SHA NO. AT285695	BAB	4/2004
A	SPAN WIRE TO MAST ARM POLE & POLE INSTALLATION	STV	11/1979

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

ORIGINALS ON FILE

STV Incorporated
engineers/architects/planners/scientists/construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

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

US 40 ALT AND MD 17
TRAFFIC SIGNALIZATION PLAN

DRAWN BY:	G. HARRIS	F.A.P. NO.	SEE TITLE SHEET	TS NO.	SHEET NO.
CHECKED BY:	B. THOMPSON	S.H.A. NO.	F900-501-785	TS-1535B	
SCALE:	1" = 20'	COUNTY:	FREDERICK	T.I.M.S. NO.	
DATE:	SEPTEMBER 23, 1977	LOG MILE:	10001712.96	F837	1 OF 2

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