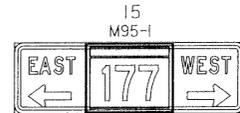
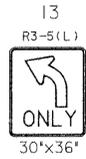
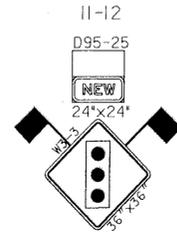


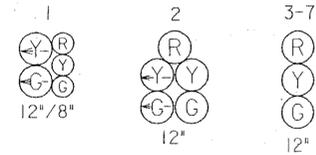
EXISTING SIGNS



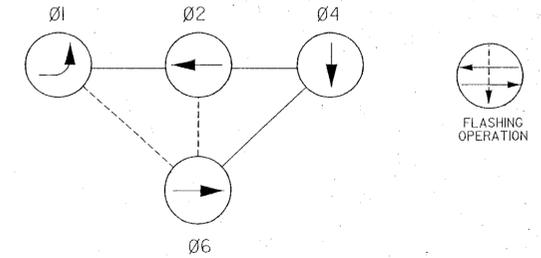
PROPOSED SIGNS



SIGNAL HEADS

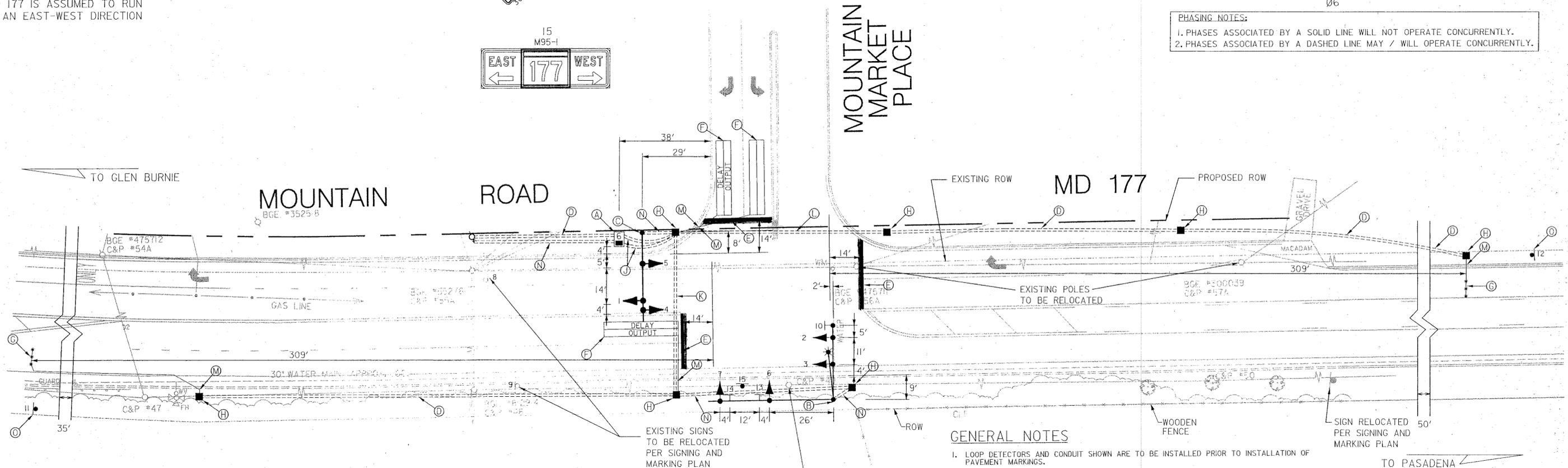


NEMA PHASING



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

MD 177 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



CONSTRUCTION DETAILS

- A. INSTALL 8-PHASE NEMA SIZE 6 BASE-MOUNTED CABINET AND ALL NECESSARY EQUIPMENT (NOTE: 2-4 IN. PVC, 1-2 IN. PVC, 1-3 IN. 90 DEGREE BENDS)
- B. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT. MAST ARMS, VEHICLE SIGNAL HEADS, SIGNS, 20-FOOT LIGHTING ARM WITH 250 WATT HPS LUMINAIRE AND 4 - 1 3/4 IN. x 90 IN. ANCHOR BOLTS (NOTE: 1-3 IN. PVC 90 DEGREE BEND) (NOTE: CUT MAST ARM FOR THE EASTBOUND APPROACH TO 40')
- C. INSTALL 21 FT. STEEL POLE (CUT FROM A 27 FT. POLE) WITH 38 FT. MAST ARM, VEHICLE SIGNAL HEADS, AND 4 - 1 3/4 IN. x 90 IN. ANCHOR BOLTS (NOTE: 1-4 IN. 90 DEGREE BEND)
- D. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- E. INSTALL 24 IN. WHITE HEAT-APPLIED THERMOPLASTIC PERMANENT PAVEMENT MARKING
- F. INSTALL 6 FT. x 30 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 TURNS) QUADRUPOLE TYPE
- G. INSTALL MICROLOOP PROBE SET
- H. INSTALL HANDHOLE
- J. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- K. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED)
- L. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED PRIOR TO ROADWAY CONSTRUCTION)
- M. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (FOR DETECTOR SLEEVE)
- N. INSTALL 3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- O. INSTALL GROUND-MOUNTED SIGN 550' FROM THE INTERSECTION

GENERAL NOTES

1. LOOP DETECTORS AND CONDUIT SHOWN ARE TO BE INSTALLED PRIOR TO INSTALLATION OF PAVEMENT MARKINGS.
2. CONTRACTOR SHALL VERIFY LOCATION OF NEW GEOMETRICS PRIOR TO INSTALLATION OF SIGNAL EQUIPMENT.
3. WITHIN 18 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
4. 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.
5. ALL STOP LINE MARKINGS ARE TO BE INSTALLED ACCORDING TO SHA STANDARDS.
6. OTHER PAVEMENT MARKINGS SHOWN ARE TO BE INSTALLED ACCORDING TO THE PAVEMENT MARKING PLAN, SHA STANDARDS AND WILL BE PERFORMED BY OTHERS.
7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT STORM DRAINAGE SYSTEM ON THE NORTH SIDE OF MD 177 WHEN INSTALLING THE SIGNAL POLE FOUNDATION AND CABINET CONDUIT.
8. THE CONTRACTOR IS TO HAND DIG CONDUIT AROUND WOOD POLES.

STV Incorporated
 engineers/architects/planners/scientists/construction managers
 21 Governor's Court Baltimore, MD 21244-2722 (410) 944-9112

REVISIONS	APPROVALS
	<i>Permit</i> 6/28/00 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> 7/10/00 ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	<i>[Signature]</i> 7/10/00 CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	<i>Robert Frank</i> 7/31/00 DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
 MD 177 AND MOUNTAIN
 MARKETPLACE
 TRAFFIC SIGNALIZATION PLAN

DRAWN BY: B.A.B.	F.A.P. NO. 4009	TS NO. 4009	SHEET NO. 1 OF 4
CHECKED BY: M.T.S. <i>[Signature]</i>	S.H.A. NO. BW 996M82	T.I.M.S. NO. 741	
SCALE: 1" = 20'	COUNTY: ANNE ARUNDEL	LOG MILE:	
DATE: JUNE 21, 2000			