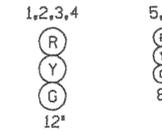


**CONSTRUCTION DETAILS:**

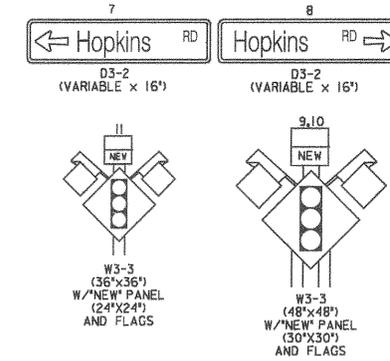
- A. INSTALL 27 FT. STEEL POLE WITH A 64 FT MAST ARM, SIGNAL HEADS, SIGNS, AND 12 FT STREET LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE (NOTE: 1-4 IN., SCHEDULE 40, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BEND).
- B. INSTALL 6 FT X 6 FT LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3 TURNS).
- C. REMOVE EXISTING CONCRETE CURB AND GUTTER AND SIDEWALK. INSTALL NEW SIDEWALK RAMP (REFER TO MDSA STD. NO. MD-655.II AND MD-655.I4. MODIFY DIMENSIONS AS REQUIRED TO ENSURE 12% MAX. SLOPE).
- D. INSTALL NEMA SIZE #6 BASE-MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 1-2 IN., SCHEDULE 40, 1-2 IN., SCHEDULE 80 AND 2-4 IN., SCHEDULE 40, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BENDS).
- E. INSTALL 6 FT X 22 FT LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (2-4-2) QUADRUPOLE TYPE.
- F. INSTALL HANDHOLE.
- G. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- H. INSTALL 2 IN. SCHEDULE 40 RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- J. INSTALL 4 IN. SCHEDULE 80 RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
- K. INSTALL 4 IN. SCHEDULE 40 RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- L. INSTALL W3-3 (36 IN. X 36 IN.) SIGN WITH "NEW" PANEL AND FLAGS ON ONE 4 IN. X 6 IN. PRESSURE TREATED WOOD POST APPROXIMATELY 100 FT IN ADVANCE OF THE INTERSECTION ON HOPKINS ROAD. INSTALL W3-3 (48 IN. X 48 IN.) SIGN WITH "NEW" PANEL AND FLAGS ON TWO 4 IN. X 4 IN. PRESSURE TREATED WOOD POST APPROXIMATELY 475 FT. IN ADVANCE OF THE INTERSECTION ON MD 117.
- M. INSTALL 24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE (STOPLINE).
- N. PROPOSED UNDERGROUND ELECTRICAL SERVICE TO BE INSTALLED BY PEPCO.
- O. INSTALL 4 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE.

MD 117 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION

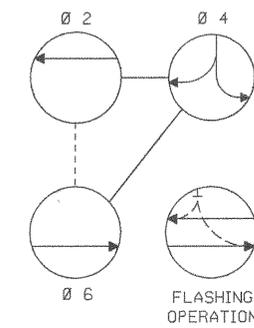
**SIGNAL HEADS**



**SIGNS**



**NEMA PHASING**

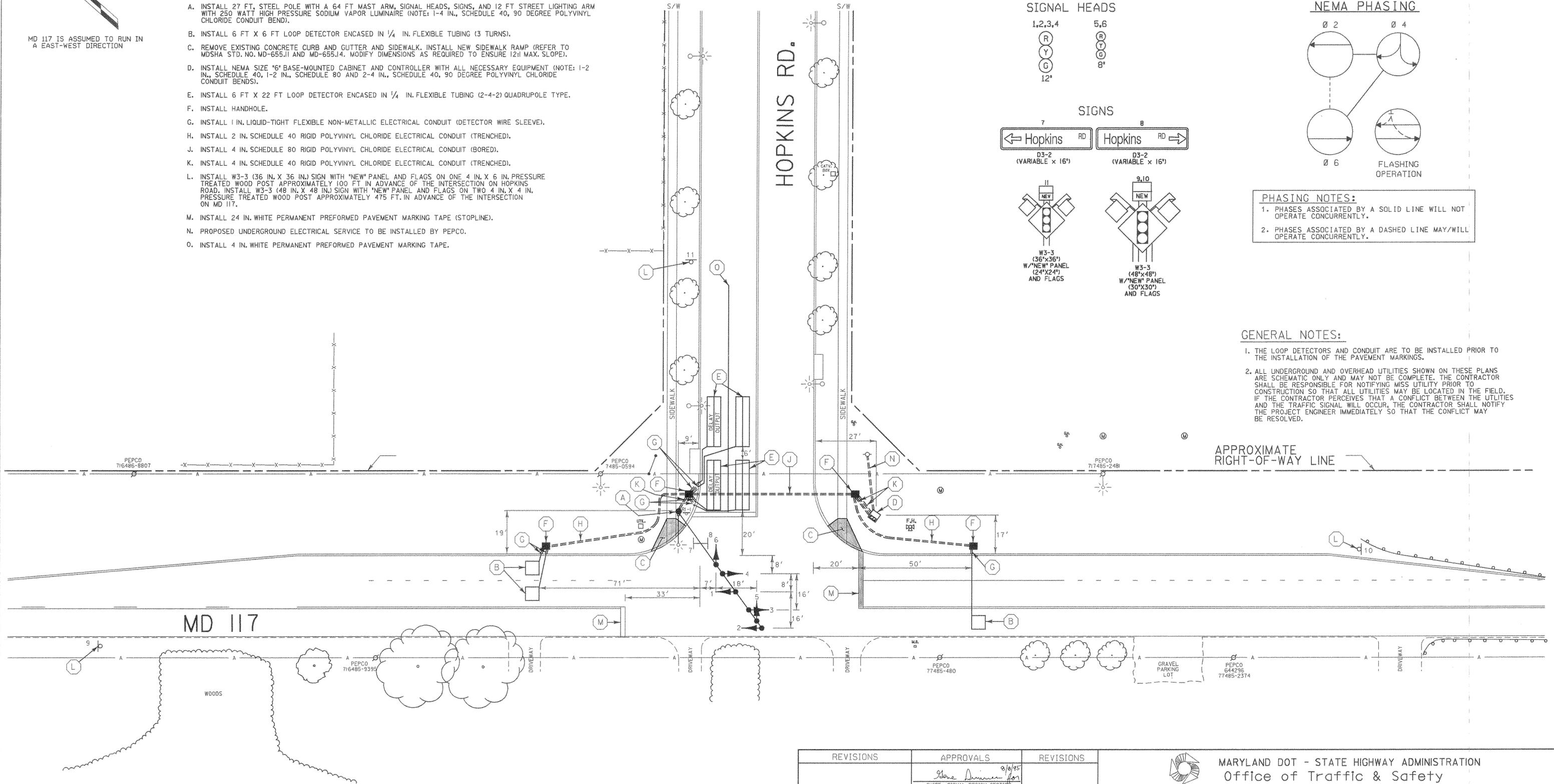


**PHASING NOTES:**

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

**GENERAL NOTES:**

- 1. THE LOOP DETECTORS AND CONDUIT ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE PAVEMENT MARKINGS.
- 2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY 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.



**LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES**

AERIAL CABLE	— A —
ELECTRICAL	— E —
TELEPHONE	— T —
GAS	— G —
SEWER	— S —
WATER	— W —
CABLE TV	— TV —

**WR&A**  
Whitman, Reardon and Associates  
ENGINEERS AND PLANNERS  
2315 Saint Paul Street  
Baltimore, Maryland 21218  
(410) 235-3450

REVISIONS	APPROVALS	REVISIONS
	<i>[Signature]</i> 8/10/95 CHIEF, SIGNAL DESIGN SECTION	
	ASST. DISTRICT ENGINEER, TRAFFIC <i>[Signature]</i> 8/10/95 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
	<i>[Signature]</i> DIRECTOR, OFFICE OF TRAFFIC & SAFETY	



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
TRAFFIC SIGNALIZATION PLAN  
MD 117 AND HOPKINS ROAD

DATE: 7-28-95	DRAWN BY: S. BLOSS	F.A.P. NO. STPG-000S(30)E	PLAN SHEET NO.:	SHEET NO.
SCALE: 1"=20'	DESIGNED BY: T. ZAYDEL	S.H.A. NO. AW-791-501-385	TS-3543	OF
	CHECKED BY: T. HANNAN	COUNTY: MONTGOMERY		