

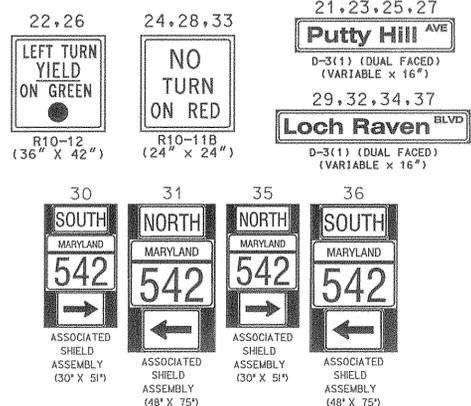
MD 542 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

SPECIAL NOTE
THE CONTRACTOR SHALL NOT BLOCK VIEW OF EXISTING SIGNAL INDICATIONS DURING INSTALLATION OF MAST ARM. IF NEW MAST ARM CANNOT BE INSTALLED DUE TO CONFLICT WITH EXISTING SIGNAL INDICATIONS OR SPAN WIRE, A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.

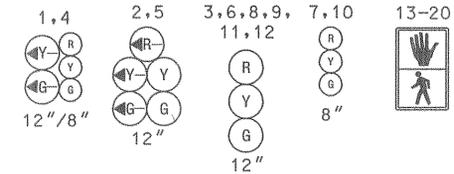
CONSTRUCTION DETAILS

- A. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE).
- B. INSTALL 27 FT. STEEL POLE WITH 50 FT. (CUT TO 42 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, 20 FT. STREET LIGHTING BRACKET WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND R10-4(1) SIGN. (INSTALL 1-2 IN. AND 1-4 SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- C. INSTALL 27 FT. STEEL POLE WITH 50 FT. (CUT TO 45 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS AND PEDESTRIAN SIGNAL HEAD. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL BENDS IN POLE BASE).

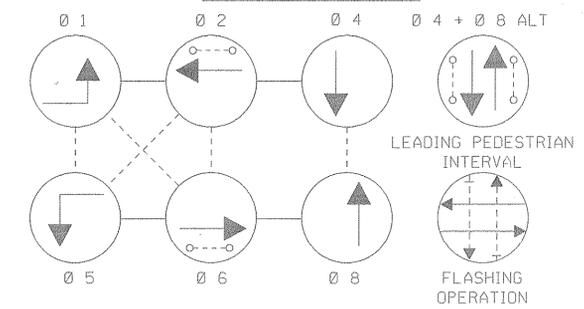
PROPOSED SIGNS



PROPOSED SIGNALS



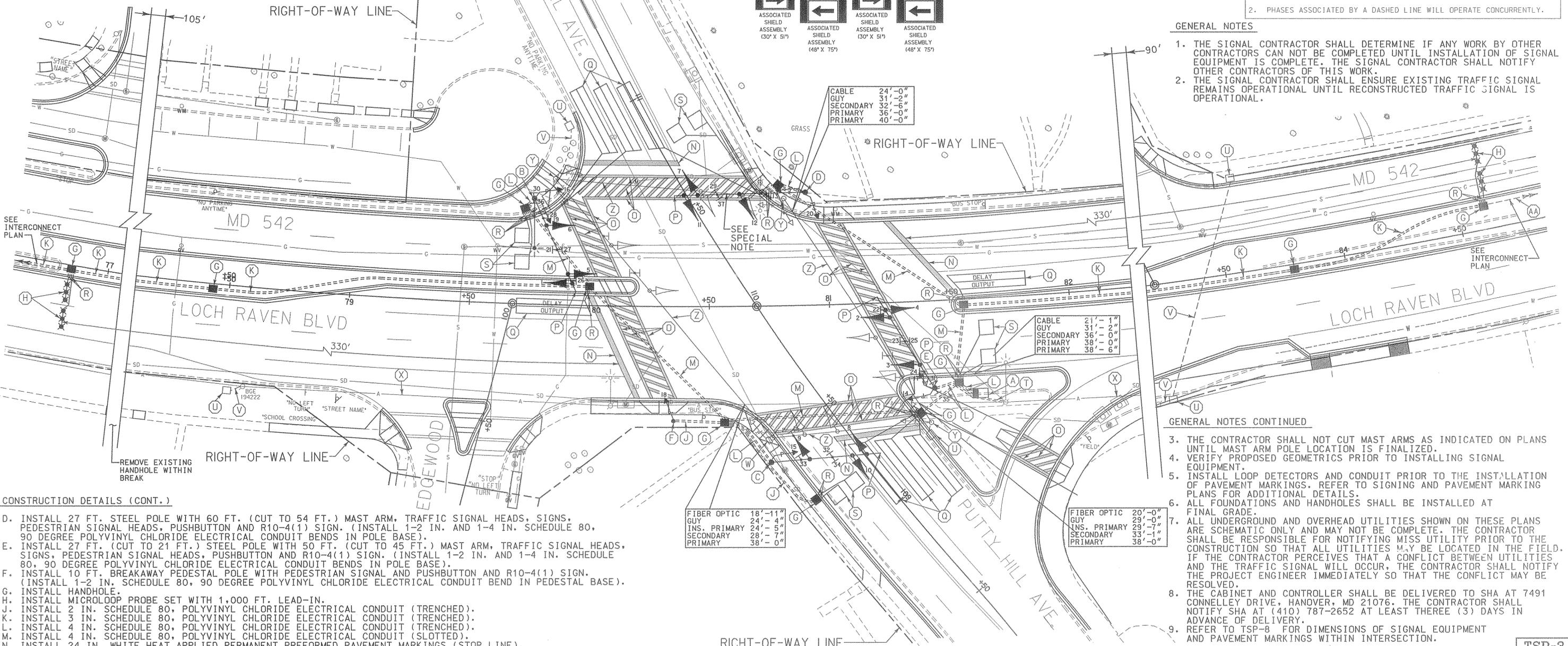
NEMA PHASING



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

GENERAL NOTES

- 1. THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.
- 2. THE SIGNAL CONTRACTOR SHALL ENSURE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL RECONSTRUCTED TRAFFIC SIGNAL IS OPERATIONAL.



CONSTRUCTION DETAILS (CONT.)

- D. INSTALL 27 FT. STEEL POLE WITH 60 FT. (CUT TO 54 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND R10-4(1) SIGN. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- E. INSTALL 27 FT. (CUT TO 21 FT.) STEEL POLE WITH 50 FT. (CUT TO 45 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND R10-4(1) SIGN. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
- F. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL AND PUSHBUTTON AND R10-4(1) SIGN. (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).
- G. INSTALL HANDHOLE.
- H. INSTALL MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN.
- J. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- K. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- L. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- M. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
- N. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED PAVEMENT MARKINGS (STOP LINE).
- D. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED PAVEMENT MARKINGS (CROSSWALK).
- P. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
- Q. INSTALL 6 FT. x 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
- R. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- S. INSTALL 6 FT. x 6 FT. (4-TURNS) LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
- T. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT AT UTILITY POLE FOR USE BY OTHERS.
- U. REMOVE EXISTING HANDHOLE.
- V. ABANDON EXISTING CONDUIT.
- W. REMOVE EXISTING STEEL STRAIN POLE, AND POLE MOUNTED CABINET AND CONTROLLER. REMOVE FOUNDATION 12 IN. BELOW GRADE.
- X. REMOVE EXISTING OVERHEAD LOOP DETECTOR CABLE.
- Y. REMOVE EXISTING STEEL STRAIN POLE AND FOUNDATION 12 IN. BELOW GRADE.
- Z. REMOVE EXISTING SPAN WIRE, TRAFFIC SIGNAL HEADS AND SIGNS.
- AA. USE PREVIOUSLY INSTALLED CONDUIT (SEE TSP-4).

FIBER OPTIC	18'-11"
GUY	24'-4"
INS. PRIMARY	24'-5"
SECONDARY	28'-7"
PRIMARY	38'-0"

FIBER OPTIC	20'-0"
GUY	29'-0"
INS. PRIMARY	29'-7"
SECONDARY	33'-1"
PRIMARY	38'-0"

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
STORM DRAIN	SD
WATER	W
CABLE TV	TV

WR&A
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	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 542 (LOCH RAVEN BLVD.) AND PUTTY HILL AVE.

DRAWN BY: BRUCE THOMPSON
CHECKED BY: DENNIS DODA
SCALE: 1" = 20'
DATE: 9-26-84

F.A.P. NO. B 785-501-485
S.H.A. NO. BALTIMORE
COUNTY: BALTIMORE
LOG MILE:

TS NO. TS-2013A
SHEET NO.

TSP-3