

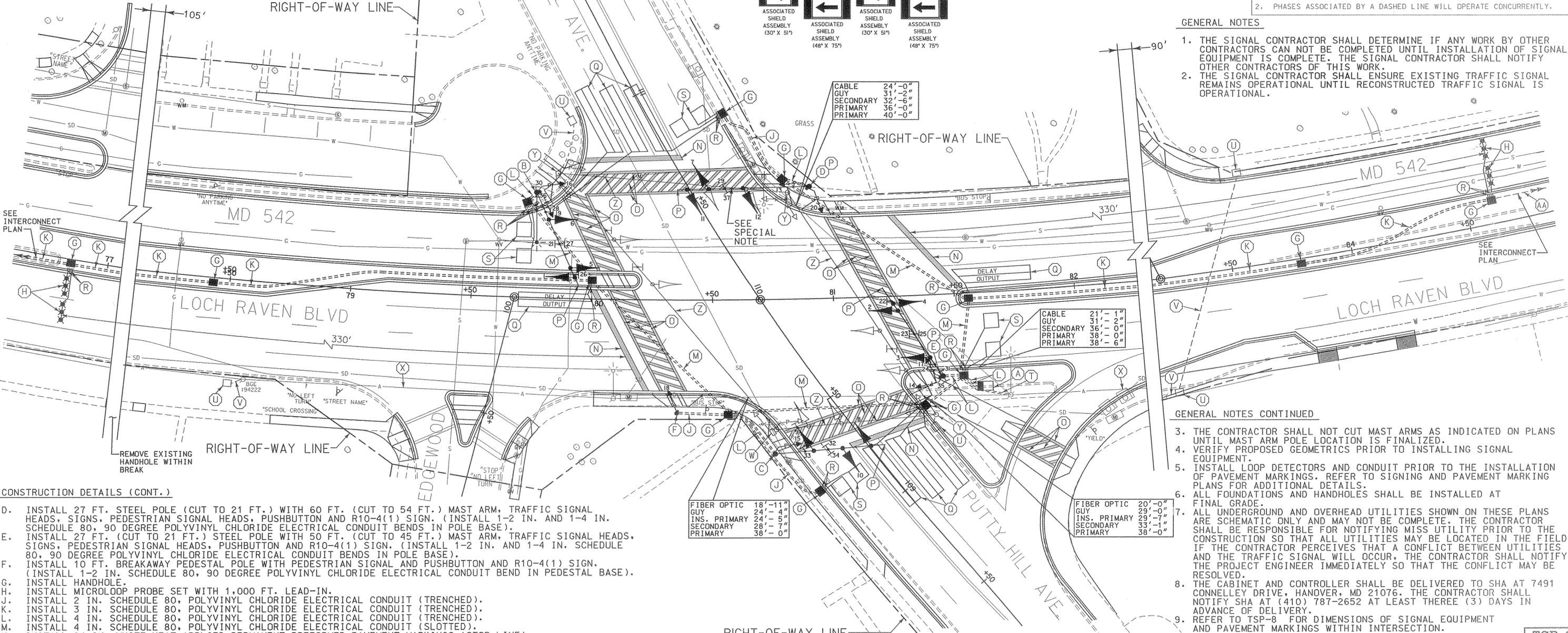
MD 542 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

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

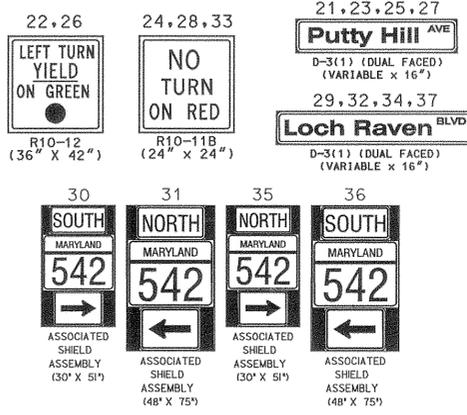
- A. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE).
- B. INSTALL 27 FT. STEEL POLE WITH 50 FT. (CUT TO 42 FT.) MAST ARM, 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).



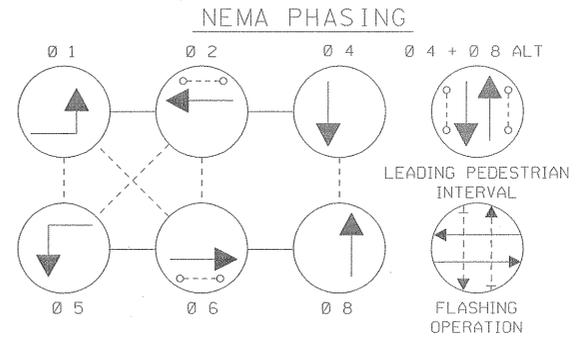
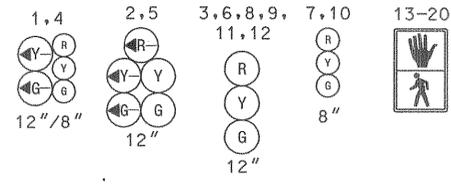
CONSTRUCTION DETAILS (CONT.)

- D. INSTALL 27 FT. STEEL POLE (CUT TO 21 FT.) 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).
- O. 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).

PROPOSED SIGNS



PROPOSED SIGNALS



- PHASING NOTES:**
- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 - PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

GENERAL NOTES

- 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.
- THE SIGNAL CONTRACTOR SHALL ENSURE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL RECONSTRUCTED TRAFFIC SIGNAL IS OPERATIONAL.

GENERAL NOTES CONTINUED

- THE CONTRACTOR SHALL NOT CUT MAST ARMS AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
- VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
- INSTALL LOOP DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
- ALL FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
- 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 THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CABINET AND CONTROLLER SHALL BE DELIVERED TO SHA AT 7491 CONNELLEY DRIVE, HANOVER, MD 21076. THE CONTRACTOR SHALL NOTIFY SHA AT (410) 787-2652 AT LEAST THREE (3) DAYS IN ADVANCE OF DELIVERY.
- REFER TO TSP-8 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.

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
Whitman, Reardon
and Associates, LLP
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

REVISIONS	APPROVALS
1. RELOCATE TRAFFIC SIGNAL POLES CONTRACT NO. BA3225183 ADDENDUM NO. 1 MAY 11, 2000 NML [Signature]	ASST. TRAFFIC ENGINEER, DESIGN DIVISION ASST. DISTRICT ENGINEER, TRAFFIC CHIEF 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.

TSP-3

DRAWN BY: BRUCE THOMPSON	F.A.P. NO.	TS NO.
CHECKED BY: DENNIS DODA	S.H.A. NO.	TS-2013A
SCALE: 1" = 20'	COUNTY: BALTIMORE	SHEET NO.
DATE: 9-26-84	LOG MILE:	OF