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 WIRES, 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 TWIN 70 FT./50 FT. (CUT TO 36 FT.) MAST ARMS, TRAFFIC SIGNAL HEADS SIGNS, 20 FT. STREET LIGHTING BRACKET WITH A 250 WATT HIGH PRESSURE SODIUM LUMINAIRE, PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND R10-4(1) SIGN. (INSTALL 1-2 IN. AND 2-3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
C. INSTALL 27 FT. (CUT TO 21 FT.) STEEL POLE WITH TWIN 60 FT./50 FT. (CUT TO 36 FT.) MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND R10-4(1) SIGN. (INSTALL 1-2 IN. AND 2-3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
D. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND R10-4(1) SIGN. (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN PEDESTAL BASE.
E. INSTALL HANDHOLE.
F. INSTALL MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN.

PROPOSED SIGNS

15-18: Glen Keith BLVD — D-3(1) (DUAL FACED) (VARIABLE x 16")

20,23,25,28: Loch Raven BLVD — D-3(1) (DUAL FACED) (VARIABLE x 16")

19,24,29: NO TURN ON RED — R10-11B (24" x 24")

21: SOUTH MARYLAND 542 — ASSOCIATED SHIELD ASSEMBLY (30" X 51")

22: NORTH MARYLAND 542 — ASSOCIATED SHIELD ASSEMBLY (48" X 75")

26: NORTH MARYLAND 542 — ASSOCIATED SHIELD ASSEMBLY (30" X 51")

27: SOUTH MARYLAND 542 — ASSOCIATED SHIELD ASSEMBLY (48" X 75")

PROPOSED SIGNALS

1-4,6,7,9,10: R Y G 12"

5,8: R Y G 8"

11-14

NEMA PHASING

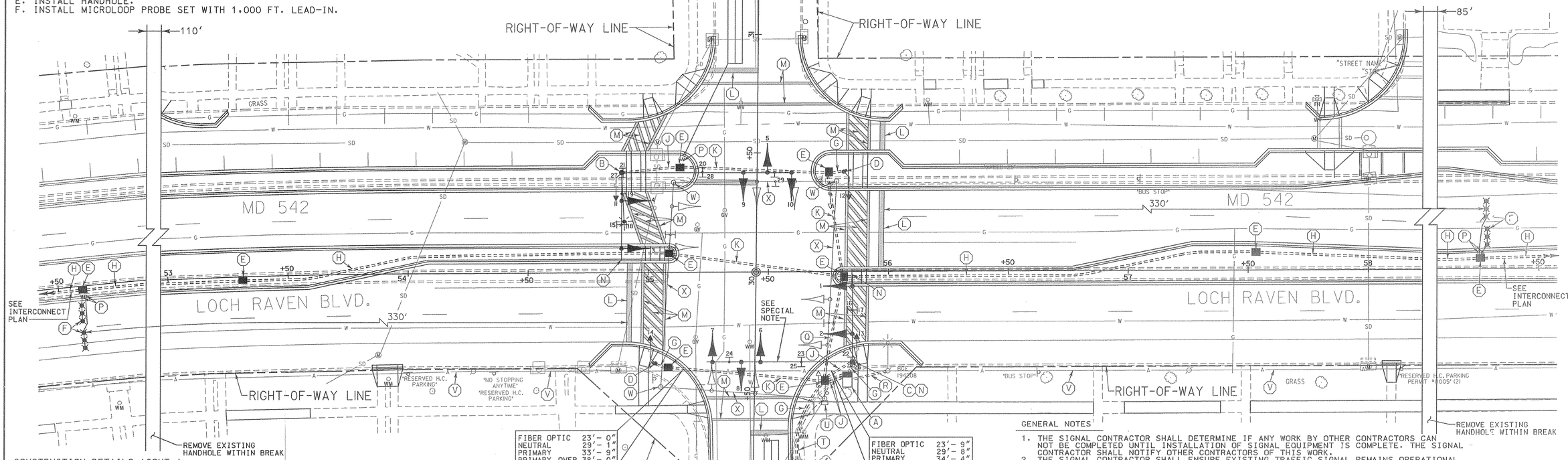
Ø 2 Ø 4 Ø 6 Ø 8

Ø 4 + Ø 8 ALT

FLASHING OPERATION

PHASING NOTES:

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



CONSTRUCTION DETAILS (CONT.)

G. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
H. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
J. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
K. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
L. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED PAVEMENT MARKINGS (STOP LINE).
M. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED PAVEMENT MARKINGS (CROSSWALK).
N. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
O. INSTALL 6 FT. x 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBUNG.
P. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
Q. INSTALL 2-4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUITS IN COMMON SLOT.
R. 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.
S. USE EXISTING HANDHOLE.
T. ABANDON EXISTING CONDUIT.
U. REMOVE EXISTING STEEL STRAIN POLE, AND POLE MOUNTED CABINET AND CONTROLLER. REMOVE FOUNDATION 12 IN. BELOW GRADE.
V. REMOVE EXISTING OVERHEAD LOOP DETECTOR CABLE.
W. REMOVE EXISTING STEEL STRAIN POLE AND FOUNDATION 12 IN. BELOW GRADE.
X. REMOVE EXISTING SPAN WIRE, TRAFFIC SIGNAL HEADS AND SIGNS.

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.
3. THE CONTRACTOR SHALL NOT CUT MAST ARMS AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
4. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
5. INSTALL LOOP DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
6. ALL FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
7. 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.
8. 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 THEREE (3) DAYS IN ADVANCE OF DELIVERY.
9. REFER TO TSP-7 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.
10. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR INSTALLING SPEAKERS FOR STANDARD "CUCKOO" SOUND DURING THE WALK CYCLE FOR NORTH/SOUTH CROSSING AND STANDARD "CHIRP" SOUND DURING THE WALK CYCLE FOR EAST/WEST CROSSINGS. THE CONTRACTOR SHALL NOTIFY SHA WHEN THIS WORK CAN BE COMPLETED.

TSP-2

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

REVISIONS	APPROVALS
A RECONSTRUCT TRAFFIC SIGNAL DUE TO GEOMETRIC IMPROVEMENTS CONTRACT NO. A3275185 02/00 NML	ORIGINAL ON FILE — ASST. TRAFFIC ENGINEERING 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 GLEN KEITH BOULEVARD

DRAWN BY: BRUCE THOMPSON	F.A.P. NO.	TS NO. TS-2012A	SHEET NO.
CHECKED BY: DENNIS DODA	S.H.A. NO. B 785-501-485		
SCALE: 1" = 20'	COUNTY: BALTIMORE	T.I.M.S. NO.	OF
DATE: 9-26-84	LOG MILE:		