MD 146 IS ASSUMED TO RUN IN
A NORTH-SOUTH DIRECTION

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN EXCLUSIVE/PERMISSIVE LEFT TURN FOR EASTBOUND SEMINARY AVENUE. BALTIMORE COUNTY WILL ADD A LANE ON EASTBOUND SEMINARY AVENUE FOR THE EXCLUSIVE/PERMISSIVE LEFT TURN. THE SHA SIGNAL SHOP WILL ADD PHASE 7 TO THE CONTROLLER CABINET.
MD 146 RUNS IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

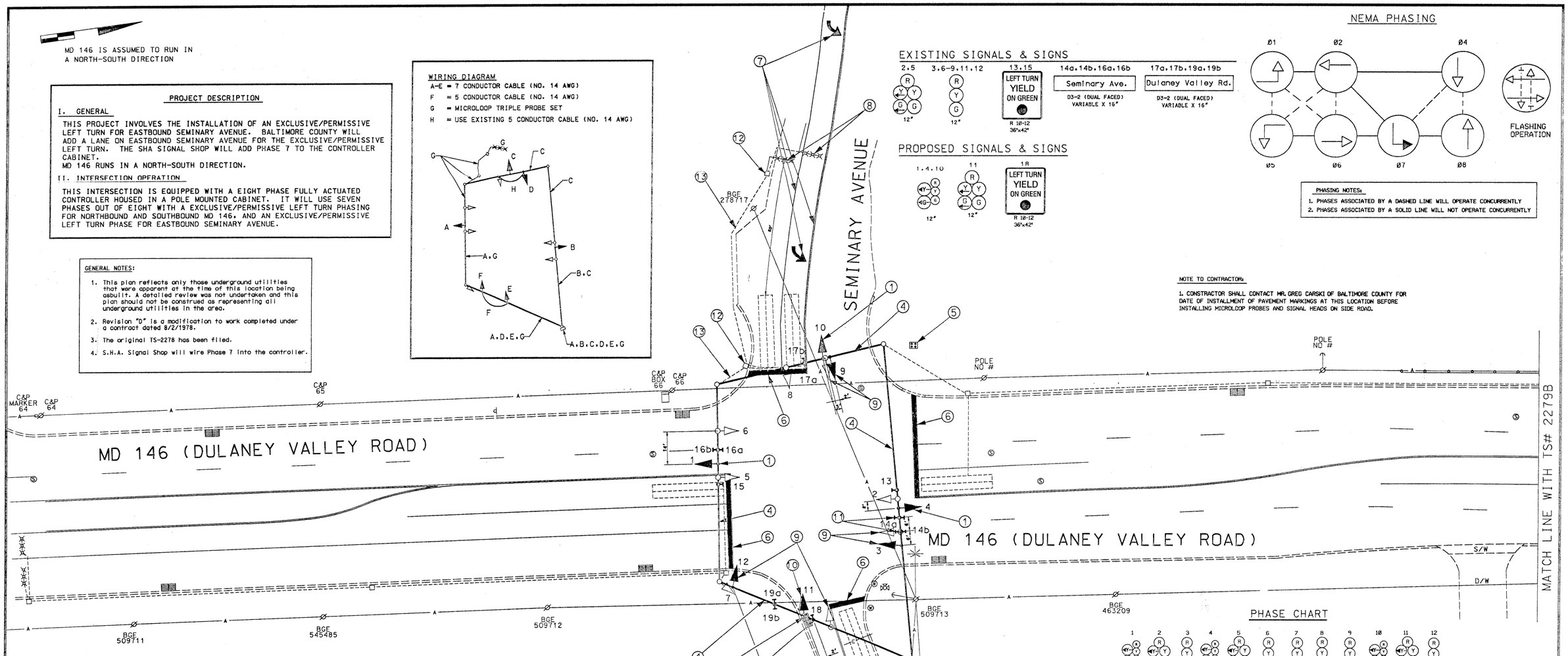
THIS INTERSECTION IS EQUIPPED WITH A EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A POLE MOUNTED CABINET. IT WILL USE SEVEN PHASES OUT OF EIGHT WITH A EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR NORTHBOUND AND SOUTHBOUND MD 146, AND AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR EASTBOUND SEMINARY AVENUE.

GENERAL NOTES:

1. This plan reflects only those underground utilities that were apparent at the time of this location being asbuilt. A detailed review was not undertaken and this plan should not be construed as representing all underground utilities in the area.
2. Revision "D" is a modification to work completed under a contract dated 8/2/1978.
3. The original TS-2278 has been filed.
4. S.H.A. Signal Shop will wire Phase 7 into the controller.

WIRING DIAGRAM

A-E = 7 CONDUCTOR CABLE (NO. 14 AWG)
F = 5 CONDUCTOR CABLE (NO. 14 AWG)
G = MICROLOOP TRIPLE PROBE SET
H = USE EXISTING 5 CONDUCTOR CABLE (NO. 14 AWG)



EXISTING SIGNALS & SIGNS

PROPOSED SIGNALS & SIGNS

NEMA PHASING

PHASING NOTES:

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

NOTE TO CONTRACTOR:

1. CONSTRACTOR SHALL CONTACT MR. GREG CARSKI OF BALTIMORE COUNTY FOR DATE OF INSTALLMENT OF PAVEMENT MARKINGS AT THIS LOCATION BEFORE INSTALLING MICROLOOP PROBES AND SIGNAL HEADS ON SIDE ROAD.

CONSTRUCTION DETAILS

1. INSTALL THE PROPOSED SIGNAL HEAD ON THE EXISTING SPAN WIRE. (BOTTOM TETHER FIVE SECTION SIGNAL HEAD)
2. INSTALL SIGN ON EXISTING SPAN WIRE.
3. CONTROLLER TO BE MODIFIED BY SHA SIGNAL SHOP TO ADD AN EXCLUSIVE/PERMISSIVE LEFT TURN ON SEMINARY AVENUE(PHASE 7).
4. USE EXISTING SPAN WIRE.
5. REMOVE & DISPOSE OF FOUNDATION 12" BELOW GRADE.
6. REMOVE EXISTING STOP LINE & INSTALL 24" PAVEMENT MARKING (STOP LINE).
7. PAVEMENT MARKINGS ARE TO BE INSTALLED BY BALTIMORE COUNTY.
8. ABANDON EXISTING PROBES AND INSTALL NEW MICRO LOOP TRIPLE PROBE SET.
9. RELOCATE EXISTING SIGNAL HEAD.
10. REMOVE EXISTING SIGNAL HEAD.
11. RELOCATE EXISTING SIGN.
12. USE EXISTING HANDHOLE.
13. USE EXISTING CONDUIT.

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
	3 EA	COMBINATION 8", 12" ONE WAY FIVE (5) SECTION (8" R,Y,G, 12" YA,GA) SIGNAL HEAD, SPAN MOUNTED HARDWARE
	1 EA	COMBINATION 12" ONE WAY FIVE (5) SECTION (R,Y,YA,G,GA) SIGNAL HEAD, SPAN MOUNTED HARDWARE
	10.5 SF	1 EACH R10-12 SIGN, 36" x 42", SPAN MOUNTED HARDWARE

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5004	175 LF	FURNISH & INSTALL 24" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
5007	175 LF	REMOVE EXISTING PAVEMENT MARKINGS ANY WIDTH
8011	7 EA	INSTALL SIGNAL HEAD (ANY TYPE)
8016	1 EA	INSTALL MICROLOOP TRIPLE PROBE SET (500 FT)
8044	30 LF	FURNISH & INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8045	710 LF	FURNISH & INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8053	10.5 SF	INSTALL OVERHEAD SIGN
8057	1 EA	REMOVE & DISPOSE OF EXISTING FOUNDATION 12" BELOW GRADE
8060	1 EA	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
NEG	1 EA	RELOCATE EXISTING SIGN

UTILITY LEGEND

G G	GAS MAIN
W W	WATER MAIN
S S	SEWER MAIN
E E	ELECTRIC CABLES
A A	AERIAL CABLES
T T	TELEPHONE CABLES

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1 & 5	◀G-R	◀G-R	R	◀G-R	◀G-R	R	R	R	R	R	R	R
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6											
Phase 1 & 6	◀G-G	◀G-G	G	R	R	R	R	R	R	R	R	R
1 & 6 Change	◀Y-G	◀Y-G	G	R	R	R	R	R	R	R	R	R
Phase 2 & 5	R	R	R	◀G-G	◀G-G	G	R	R	R	R	R	R
5 Change	R	R	R	◀Y-G	◀Y-G	G	R	R	R	R	R	R
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
Phase 4 & 7	R	R	R	R	R	R	R	R	R	◀G-G	◀G-G	G
7 Change	R	R	R	R	R	R	R	R	R	◀Y-G	◀Y-G	G
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/RA	FL/RA	FL/R

REVISIONS

D 6-23-99
ADD EXCLUSIVE/PERMISSIVE LEFT TURN ON E/B SEMINARY AVE.
SHA NO.: AW 103-505-855
C 2-21-97
ASBUILT
SHA NO.: AW 103-501-485
RRZ
B 2-22-90
ADD EP'S ON NB & SB MD 146, CUT NEW LOOPS
ADD OPT PROG HDS.
SW
A 6-30-87
ADD WB N/S SIGNAL HEAD
SW

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 146 (DULANEY VALLEY RD) AND SEMINARY AVENUE
TOWSON, MARYLAND

DRAWN BY: C.K.D.	F.A.P. NO.		TS NO. 2278D	SHEET NO.
CHECKED BY:	S.H.A. NO.			
SCALE: 1"= 20'	COUNTY: BALTIMORE		T.I.M.S. NO. D367	1 OF 1
DATE: 8-2-78	LOG MILE:			

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