EDWIN RAYNOR BLVD IS ASSUMED TO RUN IN A NORTH / SOUTH DIRECTION

SIGNS

12,13 — R10-4(1) (9"X12") (TO BE INSTALLED WITH PUSH BUTTON)

14 — ONLY — R3-5L 30"X36"

15 — LEFT TURN YIELD ON GREEN — R 10-12 30"X36"

16a — Valley Rd. ⇨

16b — ⇦ Valley Rd. — D3-2 16" X VARIES DUAL FACE

17a — Duvall Hwy. ⇨

17b — ⇦ Duvall Hwy. — D3-2 16" X VARIES DUAL FACE

SIGNALS

1 — 12"/8"

2 — 12"

3,4,5,7,9 — 12"

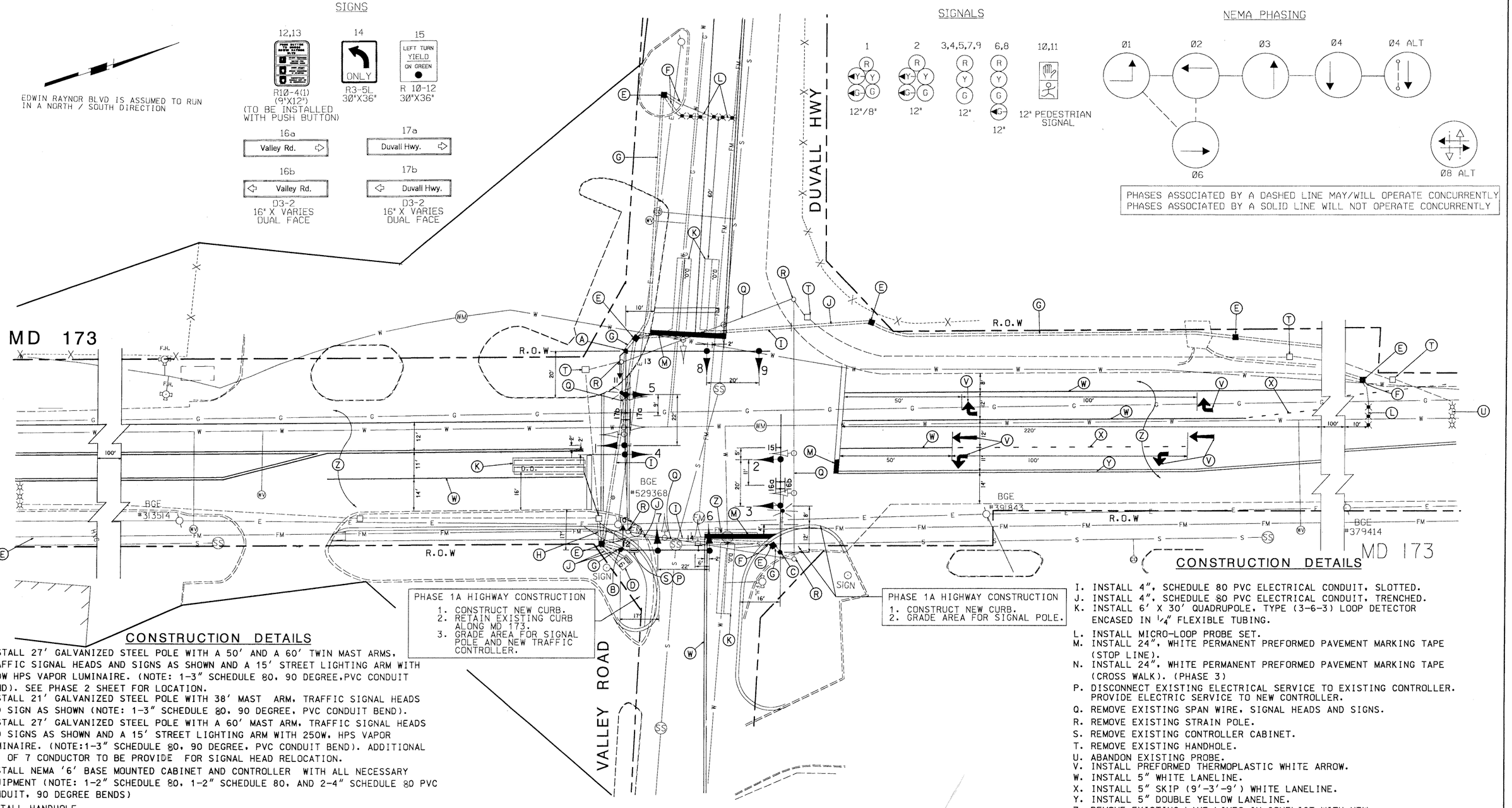
6,8 — 12"

10,11 — 12" PEDESTRIAN SIGNAL

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø4 ALT Ø6 Ø8 ALT

PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



PHASE 1A HIGHWAY CONSTRUCTION
1. CONSTRUCT NEW CURB.
2. RETAIN EXISTING CURB ALONG MD 173.
3. GRADE AREA FOR SIGNAL POLE AND NEW TRAFFIC CONTROLLER.

PHASE 1A HIGHWAY CONSTRUCTION
1. CONSTRUCT NEW CURB.
2. GRADE AREA FOR SIGNAL POLE.

CONSTRUCTION DETAILS

A. INSTALL 27' GALVANIZED STEEL POLE WITH A 50' AND A 60' TWIN MAST ARMS, TRAFFIC SIGNAL HEADS AND SIGNS AS SHOWN AND A 15' STREET LIGHTING ARM WITH 250W HPS VAPOR LUMINAIRE. (NOTE: 1-3" SCHEDULE 80, 90 DEGREE,PVC CONDUIT BEND). SEE PHASE 2 SHEET FOR LOCATION.
B. INSTALL 21' GALVANIZED STEEL POLE WITH 38' MAST ARM, TRAFFIC SIGNAL HEADS AND SIGN AS SHOWN (NOTE: 1-3" SCHEDULE 80, 90 DEGREE, PVC CONDUIT BEND).
C. INSTALL 27' GALVANIZED STEEL POLE WITH A 60' MAST ARM, TRAFFIC SIGNAL HEADS AND SIGNS AS SHOWN AND A 15' STREET LIGHTING ARM WITH 250W, HPS VAPOR LUMINAIRE. (NOTE:1-3" SCHEDULE 80, 90 DEGREE, PVC CONDUIT BEND). ADDITIONAL 25' OF 7 CONDUCTOR TO BE PROVIDE FOR SIGNAL HEAD RELOCATION.
D. INSTALL NEMA '6' BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 1-2" SCHEDULE 80, 1-2" SCHEDULE 80, AND 2-4" SCHEDULE 80 PVC CONDUIT, 90 DEGREE BENDS)
E. INSTALL HANDHOLE.
F. INSTALL 1", LIQUID TIGHT FLEXIBLE, NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
G. INSTALL 3", SCHEDULE 80 PVC ELECTRICAL CONDUIT, TRENCHED.
H. INSTALL TEMPORARY 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT TRENCHED.

CONSTRUCTION DETAILS

I. INSTALL 4", SCHEDULE 80 PVC ELECTRICAL CONDUIT, SLOTTED.
J. INSTALL 4", SCHEDULE 80 PVC ELECTRICAL CONDUIT, TRENCHED.
K. INSTALL 6' X 30' QUADRUPOLE, TYPE (3-6-3) LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING.
L. INSTALL MICRO-LOOP PROBE SET.
M. INSTALL 24", WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE (STOP LINE).
N. INSTALL 24", WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE (CROSS WALK). (PHASE 3)
P. DISCONNECT EXISTING ELECTRICAL SERVICE TO EXISTING CONTROLLER. PROVIDE ELECTRIC SERVICE TO NEW CONTROLLER.
Q. REMOVE EXISTING SPAN WIRE, SIGNAL HEADS AND SIGNS.
R. REMOVE EXISTING STRAIN POLE.
S. REMOVE EXISTING CONTROLLER CABINET.
T. REMOVE EXISTING HANDHOLE.
U. ABANDON EXISTING PROBE.
V. INSTALL PREFORMED THERMOPLASTIC WHITE ARROW.
W. INSTALL 5" WHITE LANELINE.
X. INSTALL 5" SKIP (9'-3'-9') WHITE LANELINE.
Y. INSTALL 5" DOUBLE YELLOW LANELINE.
Z. REMOVE EXISTING LANE LINES IN CONFLICT WITH NEW LANE LINES.

PHASE 1

GEOMETRIC LEGEND
EXISTING
PROPOSED

20 0 20 40
SCALE: 1"=20'

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

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Potomac, Maryland 20854
Tel. 301-765-9533
Fax. 301-765-9534

REVISIONS	APPROVALS
	ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. DISTRICT ENGINEER, TRAFFIC
G RECONSTRUCTED FOR NEW GEOMETRICS	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
AAL	DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(TRAFFIC SIGNAL PLAN)

MD 173 AND DUVALL HWY./VALLEY ROAD

DRAWN BY: AMF	F.A.P. NO.	TS NO. 21	SHEET NO.
CHECKED BY:	S.H.A. NO.		
SCALE: 1"=20'	COUNTY: ANNE ARUNDEL	T.I.M.S. NO. D-091	3 OF 10
DATE: AUGUST,1999	LOG MILE: 020173041.7		