PROPOSED SIGNS

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

16 — ← Locustvale Rd

17 — Goucher College →

21-24 — Dulaney Valley Rd
D-3(1) (DUAL FACED) (VARIABLE x 16")

20 — Locustvale Rd →
D-3(1) (DUAL FACED) (VARIABLE x 16")

19 — ← Goucher College
D-3(1) (DUAL FACED) (VARIABLE x 16")

15,18 — NEW
W3-3 (36" x 36") W/"NEW" PANEL (24" x 24") AND FLAGS

25 — ONLY
R3-5R (30" x 36")

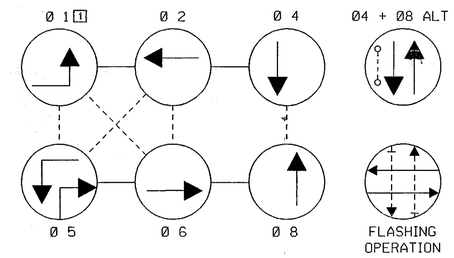
PROPOSED VIDEO DETECTION CAMERA

A,B,C,D [1]

[1] PROPOSED SIGNAL HEADS

1,5 — 12"/8"
2,6 — 12"
3,7 — 12"
4,8-11 — 12"
12 — 12"
13,14 — 16"

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.

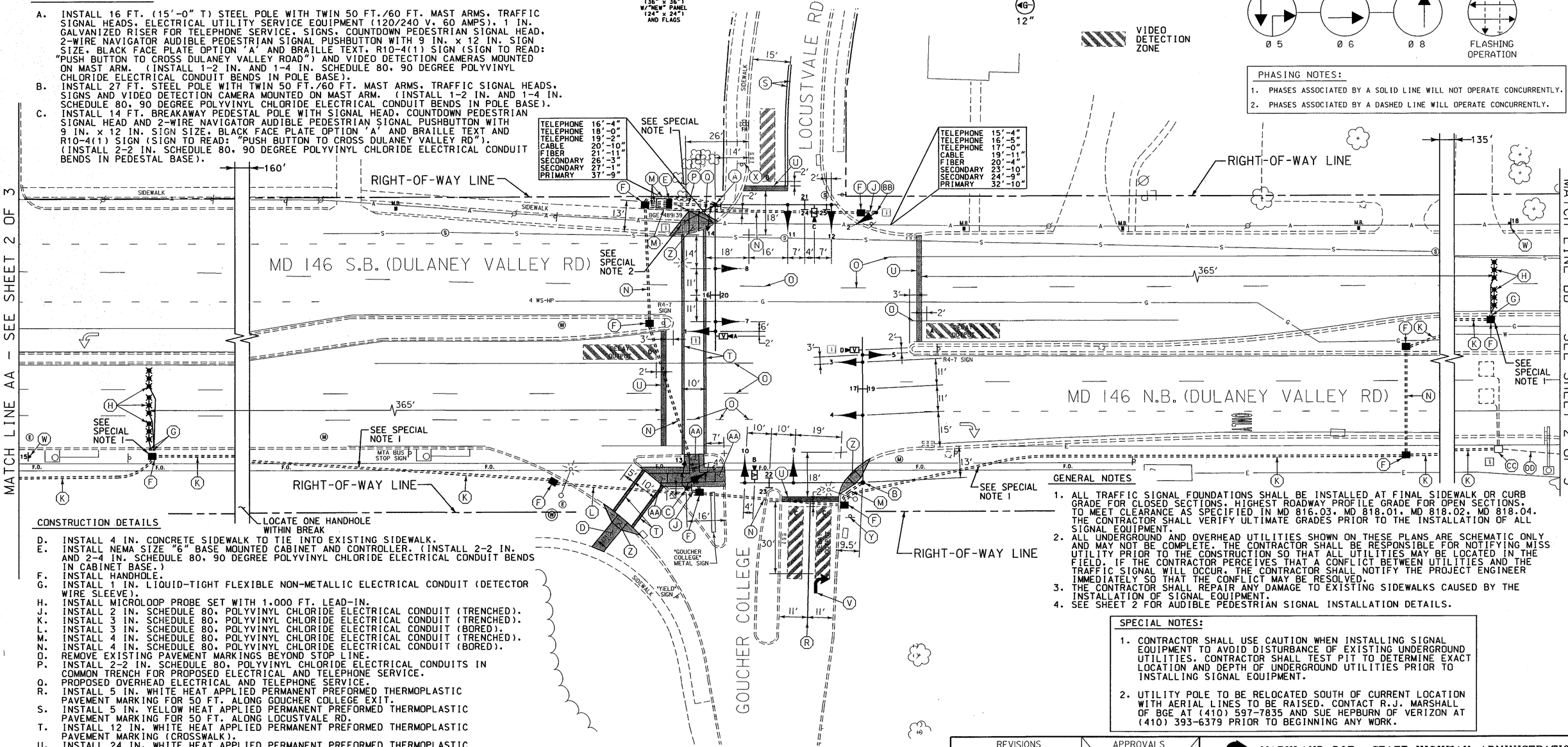
VIDEO DETECTION ZONE

CONSTRUCTION DETAILS

A. INSTALL 16 FT. (15'-0" T) STEEL POLE WITH TWIN 50 FT./60 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, ELECTRICAL UTILITY SERVICE EQUIPMENT (120/240 V, 60 AMPS), 1 IN. GALVANIZED RISER FOR TELEPHONE SERVICE, SIGNS, COUNTDOWN PEDESTRIAN SIGNAL HEAD, 2-WIRE NAVIGATOR AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON WITH 9 IN. x 12 IN. SIGN SIZE, BLACK FACE PLATE OPTION 'A' AND BRAILLE TEXT, R10-4(1) SIGN (SIGN TO READ: "PUSH BUTTON TO CROSS DULANEY VALLEY ROAD") AND VIDEO DETECTION CAMERAS MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

B. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./60 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS AND VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).

C. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH SIGNAL HEAD, COUNTDOWN PEDESTRIAN SIGNAL HEAD AND 2-WIRE NAVIGATOR AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTON WITH 9 IN. x 12 IN. SIGN SIZE, BLACK FACE PLATE OPTION 'A' AND BRAILLE TEXT AND R10-4(1) SIGN (SIGN TO READ: "PUSH BUTTON TO CROSS DULANEY VALLEY RD"). (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).



CONSTRUCTION DETAILS

D. INSTALL 4 IN. CONCRETE SIDEWALK TO TIE INTO EXISTING SIDEWALK.
E. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
F. INSTALL HANDHOLE.
G. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
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 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
M. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
N. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
O. REMOVE EXISTING PAVEMENT MARKINGS BEYOND STOP LINE.
P. INSTALL 2-2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUITS IN COMMON TRENCH FOR PROPOSED ELECTRICAL AND TELEPHONE SERVICE.
Q. PROPOSED OVERHEAD ELECTRICAL AND TELEPHONE SERVICE.
R. INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR 50 FT. ALONG GOUCHER COLLEGE EXIT.
S. INSTALL 5 IN. YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR 50 FT. ALONG LOCUSTVALE RD.
T. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).
U. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
V. INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED PAVEMENT MARKING ARROW.
W. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL AND FLAGS ON ONE 4 IN. x 6 IN. TREATED WOOD POST APPROXIMATELY 625 FT. IN ADVANCE OF THE INTERSECTION ON NORTHBOUND AND SOUTHBOUND MD 146.
X. REMOVE EXISTING R1-1, R3-2 AND "7 AM - 7 PM" SIGNS AND SUPPORT.
Y. REMOVE EXISTING R1-1 AND R3-3(4) MOD. SIGNS AND SUPPORT.
Z. INSTALL SIDEWALK RAMP (STANDARD NO. 655.11) WITH DETECTABLE WARNING SURFACE.
AA. INSTALL SIDEWALK RAMP (STANDARD NO. 655.21) WITH DETECTABLE WARNING SURFACE AND 4 IN CONCRETE SIDEWALK.
[1] BB. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH SIGNAL HEAD. (INSTALL 2-2 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
[1] CC. USE EXISTING HANDHOLE.
[1] DD. USE EXISTING CONDUIT.

GENERAL NOTES

1. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCE AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. 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.
3. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
4. SEE SHEET 2 FOR AUDIBLE PEDESTRIAN SIGNAL INSTALLATION DETAILS.

SPECIAL NOTES:

1. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.
2. UTILITY POLE TO BE RELOCATED SOUTH OF CURRENT LOCATION WITH AERIAL LINES TO BE RAISED. CONTACT R.J. MARSHALL OF BGE AT (410) 597-7835 AND SUE HEPBURN OF VERIZON AT (410) 393-6379 PRIOR TO BEGINNING ANY WORK.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

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

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

REVISIONS	APPROVALS
[1] REDLINE REVISION NO.1. ADDED NB MD 146 G/P LEFT TURN PHASE AND INTERCONNECT TO 655 — 5/13/05	TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION
SRB NML	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
TRAFFIC SIGNALIZATION PLAN
MD 146 (DULANEY VALLEY RD) AND LOCUSTVALE RD./GOUCHER COLLEGE ENT.

DRAWN BY: S. BLOSS	F.A.P. NO.		TS NO. TS-4361	SHEET NO.
CHECKED BY: N. LEARY	S.H.A. NO.	AT3575185		
SCALE: 1" = 20'	COUNTY:	BALTIMORE	T.I.M.S. NO. G368	1 OF 3
DATE: 5/13/2005	LOG MILE:	03014600.53		

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