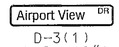
MD 235 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED SIGNS

17,18,23,24


D-3(1)
(VAR.x16")
DUAL FACE

28


R3-5(R)
(30"x36")

26


R6-1(R)
(36"x12")

31

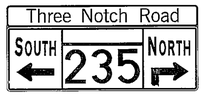

R6-1(L)
(36"x12")

15,16,21,22

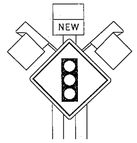

D3-2
(VAR.x36")

27

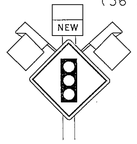

M1-5(4)
(108"x48")

30


M1-5(4)
(108"x48")

13,14,19,20


W3-3
(48" x 48")
W/"NEW" PANEL
(24" x 24")
AND FLAGS

25


W3-3
(36" x 36")
W/"NEW" PANEL
(24" x 24")
AND FLAGS

EXISTING SIGNS TO BE REMOVED

15A,21A


25A


26A,29A


EXISTING SIGNS TO REMAIN

29


PROPOSED VIDEO DETECTION CAMERA

a,b,c,d

Mervell Dean Rd

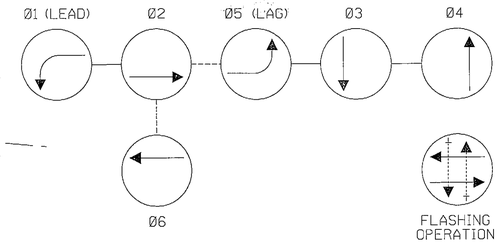
PROPOSED SIGNALS

1,2,5,6


3,4,7,8,10,12


9,11


NEMA PHASING



NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

VIDEO ZONE DETECTION

a

SPECIAL NOTES:

1. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.
2. 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.

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 50 FT. MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM AND SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A TWIN 50 FT./70 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
C. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
D. USE EXISTING EMBEDDED METERED SERVICE PEDESTAL. INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND IN PEDESTAL BASE. INSTALL 1-60A, 1P BRANCH CIRCUIT BREAKER FOR ELECTRICAL SERVICE TO TRAFFIC SIGNAL.
E. INSTALL HANDHOLE.
F. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
G. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED ROADWAY LIGHTING.
H. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
J. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
L. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
M. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
N. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE.
O. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
P. REMOVE EXISTING AND INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
Q. USE EXISTING HANDHOLE.
R. USE EXISTING CONDUIT.
S. INSTALL HEAT APPLIED WHITE THERMOPLASTIC ARROW.
T. 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 500 FT. IN ADVANCE OF THE INTERSECTION ON AIRPORT VIEW DRIVE.
U. INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. x 48 IN.) WITH "NEW" PANEL AND FLAGS ON TWO 4 IN. x 6 IN. TREATED WOOD POSTS APPROXIMATELY 950 FT. IN ADVANCE OF THE INTERSECTION ON NORTHBOUND AND SOUTHBOUND MD 235.
V. REMOVE EXISTING PAVEMENT MARKINGS BEYOND STOPLINE.
W. REMOVE EXISTING R1-1 SIGN AND INSTALL R6-1 SIGNS ON EXISTING SUPPORT AS SHOWN.
X. REMOVE EXISTING R1-1 SIGN FROM SUPPORT AS SHOWN.
Y. REMOVE EXISTING W2-1 AND D-3(2) SIGNS AND SUPPORT AS SHOWN.
Z. REMOVE EXISTING W3-1a AND "STOP AHEAD" SIGNS AND SUPPORT AS SHOWN.
AA. INSTALL TRAFFIC BARRIER W BEAM AS PER STANDARD NOS. MD 605.21, MD 605.22 AND MD 605.23. (SEE SHEET TSP-2 FOR DETAILS)
BB. INSTALL TYPE C TRAFFIC BARRIER W BEAM END TREATMENT AS PER STANDARD MD 605.03. (SEE SHEET TSP-2 FOR DETAILS)
CC. INSTALL TYPE K TRAFFIC BARRIER W BEAM END TREATMENT AS PER STANDARD MD 605.10. (SEE SHEET TSP-2 FOR DETAILS)
DD. INSTALL D3-2 (VAR.x36") SIGN ON TWO 4 IN. X 6 IN. TREATED WOOD SUPPORTS (L=15.5 FT.) APPROXIMATELY 800 FT. IN ADVANCE OF THE INTERSECTION ON NORTHBOUND AND SOUTHBOUND MD 235.

TOD No: XX347-02M
SHA No: SM390A51/C51
MD 235 @ MD 944D/Airport View Drive

GENERAL NOTES

1. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES 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. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
3. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
4. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
7. THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
8. REFER TO SHEET 2 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
SD — SD — STORM DRAIN
G — G — GAS MAIN
W — W — WATER MAIN
S — S — SEWER MAIN
E — E — ELECTRIC CABLES
A — A — AERIAL CABLES
T — T — TELEPHONE CABLES
F — F — FIBER-OPTIC

APPROVALS
TEAM LEADER 4-22-10
ASST. DIV. CHIEF 4-20-10
DIVISION CHIEF 4/23/10
OFFICE DIRECTOR 4/26/10

REVISIONS

WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 235 (Three Notch Road) and
MD 944D /Airport View Drive

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' ADVERTISED DATE 04/20/2010 CONTRACT NO. XX3475185

DESIGNED BY S. Bloss
DRAWN BY S. Bloss
CHECKED BY N. Leary
F.A.P. NO.
COUNTY St. Mary's
LOGMILE 18023518.46
TIMS NO. J925
TOD NO.

TS NO. 4754 | DRAWING TSP-1 OF 3 | SHEET NO. 1 OF 5

PLOTTED: 04-20-2010
FILE: n:\31899-057\CADD\pSG-PC01_J925.dgn

BY: sbloss