MD 85 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNS TO BE REMOVED

6A — LEFT TURN YIELD ON FLASHING RED AFTER STOP — R10-27 (30"x36")

R10-6(1) (48"x36")

7A — YIELD ON FLASHING RED ARRPW AFTER STOP — OM-1(1) (18"x18")

PROPOSED SIGNS

R4-7 (24"x30")

8 — OM-1(1) (18"x18")

7 — YIELD ON FLASHING RED ARROW AFTER STOP — R10-12(2) (48"x36")

EXISTING SIGN TO REMAIN

6 — ONLY — R3-5(L) (30"x36")

PROPOSED VIDEO DETECTION CAMERA

a,b

EXISTING SIGNALS TO BE REMOVED

4A, 5A — R, Y, G — 12"

EXISTING SIGNALS TO REMAIN

1,2, 3 — R, Y, G — 12"

PROPOSED SIGNALS

4, 5 — R, Y, G — 12"

NEMA PHASING

Ø1, Ø2, FLASHING OPERATION

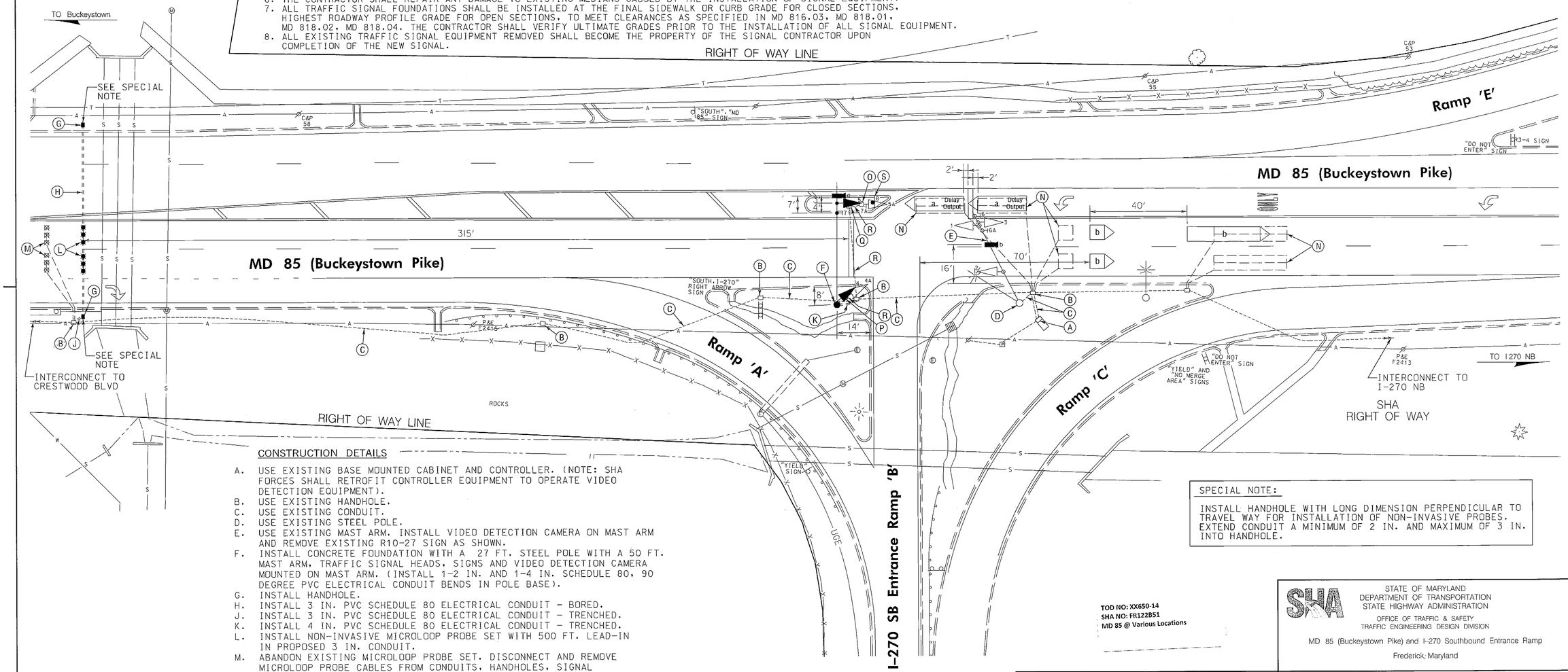
NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

VIDEO ZONE DETECTION

a

GENERAL NOTES

1. 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.
2. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
3. THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
6. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING MEDIANS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
7. 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.
8. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.



CONSTRUCTION DETAILS

A. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT).
B. USE EXISTING HANDHOLE.
C. USE EXISTING CONDUIT.
D. USE EXISTING STEEL POLE.
E. USE EXISTING MAST ARM. INSTALL VIDEO DETECTION CAMERA ON MAST ARM AND REMOVE EXISTING R10-27 SIGN AS SHOWN.
F. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 50 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS AND VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
G. INSTALL HANDHOLE.
H. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
J. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
K. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
L. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
M. ABANDON EXISTING MICROLOOP PROBE SET. DISCONNECT AND REMOVE MICROLOOP PROBE CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
N. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
O. REMOVE EXISTING PEDESTAL POLE, SIGNAL HEAD AND SIGNS.
P. REMOVE EXISTING PEDESTAL POLE AND SIGNAL HEAD. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
Q. REMOVE EXISTING HANHOLE.
R. CAP AND ABANDON EXISTING CONDUIT.
S. INSTALL R4-7 (24 IN.x 30 IN.) AND OM-1(1) (18 IN.x 18 IN.) SIGNS ON ONE 4 IN. x 4 IN. TREATED WOOD POST (L=16').

SPECIAL NOTE:

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.

TOD NO: XX650-14
SHA NO: FR122B51
MD 85 @ Various Locations

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

BY: sbloss

GEOMETRIC LEGEND
EXISTING
PROPOSED

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

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR
ORIGINAL ON FILE

REVISIONS
B — INSTALL NEW MAST ARM POLE, VIDEO DETECTION AND NON-INVASIVE PROBES ON MD 85. CONTRACT NO. XX650518 TIMS #L375 3/28/2012
A — REVISE EP LEFT TURN PHASING TO PART TIME EXCLUSIVE CONTRACT NO. AT7525185 7/13/2005
TMZ DJR TH

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 85 (Buckeystown Pike) and I-270 Southbound Entrance Ramp
Frederick, Maryland

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE 10/01/1997 CONTRACT NO. AW104A5K

DESIGNED BY N. Leary
DRAWN BY S. Bloss
CHECKED BY D. Doda
F.A.P. NO.
COUNTY Frederick
LOGMILE 10008508.88
TIMS NO. G830
TOD NO.

TS NO. 3742 B | DRAWING TSP-6 OF 8 | SHEET NO. 6 OF 8

PLOTTED: March 29, 2012
FILE: N:\31069-215\CADD\pSG-P006_I270SB.dgn