US 13 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNS WITH LED INSERT

13,14 RED SIGNAL AHEAD

EXISTING SIGNS TO REMAIN

25,26 27,28 29-32 33 34 35 36 37 38 39 40,41

PROPOSED SIGNS

19,20 Ocean HWY D-3(2) VAR x 16"

15,17 Manokin AVE / Deal Island RD D-3(1) VAR x 32"

16,18 Deal Island RD / Manokin AVE D-3(1) VAR x 32"

21 NORTH 13 M1-5(6)(US) 36"x72"

22 SOUTH 13 M1-5(6)(US) 36"x72"

23 NORTH 13 M1-5(6)(US) 24"x48"

24 SOUTH 13 M1-5(6)(US) 24"x48"

PROPOSED EQUIPMENT

a,b,c,d VIDEO DETECTION ZONE

a,b,c,d VIDEO DETECTION CAMERAS

e,f,g PROPOSED OPTICOM DETECTOR EYE

PROPOSED LED SIGNALS

1,2 5,6 3,4,7,8, 10,12 9,11

12" 12" 12"

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6

PRE-EMPTION 1

PRE-EMPTION 2

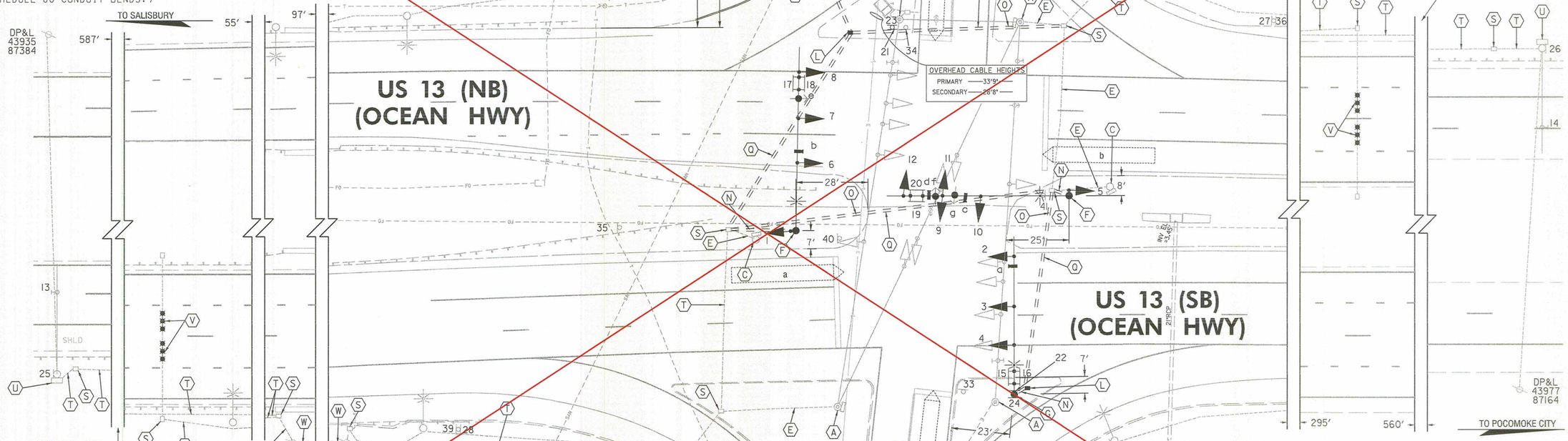
PRE-EMPTION 3

FLASHING OPERATION

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

CONSTRUCTION DETAILS

A. REMOVE EXISTING STRAIN POLE, FOUNDATION 12" BELOW GRADE, SPAN WIRE, MAINTENANCE PAD, AND ALL ATTACHED EQUIPMENT.
B. REMOVE EXISTING CABINET, FOUNDATION 12" BELOW GRADE, MAINTENANCE PAD, AND ALL ATTACHED EQUIPMENT.
C. REMOVE EXISTING PEDESTAL POLE, FOUNDATION 12" BELOW GRADE, AND ALL ATTACHED EQUIPMENT.
D. REMOVE EXISTING CURB AND INSTALL STANDARD TYPE A CURB AND GUTTER 8 INCH X 12 INCH.
E. REMOVE EXISTING CABLE AND CAP AND ABANDON EXISTING CONDUIT.
F. INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, OPTICOM SENSOR, AND 20 FT. LIGHTING ARM WITH LED LUMINAIRE. (NOTE: 1-2" AND 1-4" PVC SCHEDULE 80 CONDUIT BENDS).
G. INSTALL 27 FT. MAST ARM POLE WITH 60 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, OPTICOM SENSOR, AND 20 FT. LIGHTING ARM WITH LED LUMINAIRE. (NOTE: 1-2" AND 1-4" PVC SCHEDULE 80 CONDUIT BENDS).
H. INSTALL NEMA SIZE "S" BASE MOUNTED CABINET AND CONTROLLER WITH UPS BATTERY BACKUP SYSTEM. (NOTE: INSTALL 2-2" AND 2-4" PVC SCHEDULE 80 CONDUIT BENDS.)



CONSTRUCTION DETAILS - cont.

I. INSTALL METERED SERVICE PEDESTAL. (NOTE: 1-4" PVC BEND WITH 4" CONDUIT TO UTILITY POLE #DP&L 4397287280. 1' STUB AT POLE BASE WITH PULL STRING AND 3-2" 90° PVC BENDS).
J. INSTALL 4" PVC SCHEDULE 80 ELECTRICAL CONDUIT TRENCHED, TO BASE OF UTILITY POLE (#DP&L 4397287280 FOR ELETRIC) INSTALL 3' OF CONDUIT STUB OUT.
K. INSTALL 2" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED, TO BASE OF UTILITY POLE (#DP&L 4397287280 FOR COMMUNICATION CABLE) INSTALL 3' OF CONDUIT STUB OUT.
L. INSTALL HANDHOLE.
M. INSTALL 2" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
N. INSTALL 3" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
O. INSTALL 4" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
P. INSTALL 4" PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
Q. INSTALL 4" PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
R. INSTALL 2-4" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
S. USE EXISTING HANDHOLE.
T. USE EXISTING CONDUIT.
U. DISCONNECT AND REMOVE EXISTING POWER SERVICE EQUIPMENT FROM FLASHING SIGN STRUCTURE. INSTALL PROPOSED 3-NO. 8 AWG CABLES FROM EXISTING FLASHING SIGN STRUCTURE TO THE PROPOSED CABINET USING THE EXISTING HANDHOLES AND CONDUIT UNTIL PROPOSED CONDUIT IS REACHED.
V. INSTALL PROPOSED MICROLOOP PROBE IN EXISTING CONDUIT. INSTALL PROPOSED MICROLOOP PROBE LEAD-IN CABLE. INSTALL PROPOSED PROBES FROM EXISTING PROBE LOCATION TO THE PROPOSED CABINET USING THE EXISTING HANDHOLES AND CONDUIT UNTIL PROPOSED CONDUIT IS REACHED. REMOVE AND DISPOSE OF THE EXISTING MICROLOOP AND ALL ASSOCIATED WIRING.
W. USE EXISTING SPAN WIRE. REPLACE CABLE IN KIND AND RE-RING SPAN.

GENERAL NOTES (CONT'D)

6. THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO THE ADMINISTRATION AFTER NOTIFICATION BY THE ENGINEER.
7. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
8. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.

GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. 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 CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTION, TO MEET CLEARANCES AS SPECIFIED IN MD STD. 816.03, MD STD. 818.01, MD 818.02, AND MD STD. 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL PROPOSED SIGNAL EQUIPMENT.

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

1 RED LINE NO. 1 SHEET REPLACED DATE: 3/19/13

3/21/13

RIGHT-OF-WAY LINE

T3 DESIGN, P.C.
3927 OLD LEE HWY
SUITE 101-C
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us

BY: swilkening

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

1 TRAFFIC SIGNAL RECONSTRUCTION TO REPLACE SPAN WIRE WITH MAST ARMS XX661585 TMS# L183 10 /2 /2012
AJM
I UPGRADE TO VIDEO DETECTION AND NON-INVASIVE DETECTION. XX355168 TMS# J816 12/01/2009
MF
H UPGRADE SIGNALS TO LED, ADD THIRD SIGNAL HEAD FOR US 13 APPROACHES. XX448518 TMS# I621 04/20/2006
MH JAH JAH for RB DBD WH WH for TH

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

US 13 AND MD 363
SIGNAL MODIFICATION
PRINCESS ANNE, MD

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' DATE CONTRACT NO.
DESIGNED BY COUNTY SOMERSET
DRAWN BY D. DICKSERSON /B. THOMPSON LOGMILE 19001313.42
CHECKED BY TIMS NO.
F.A.P. NO. TOD NO.

TS NO. 384J DRAWING SG-01 OF 02 SHEET NO. 1 OF 4

PLOTTED: Tuesday, March 19, 2013 AT 02:50 PM
FILE: Y:\12-0169-46 MD 13 at MD 363\CADD\pSGP001_US13@MD363.dgn