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 M3-1 (30"X15") M1-4 (36"X36") M6-1 (30"X21")

22 SOUTH 13 M1-5(6)(US) 36"X72"

23 NORTH 13 M3-1 (24"X12") M1-4 (24"X24") M6-1 (21"X15")

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

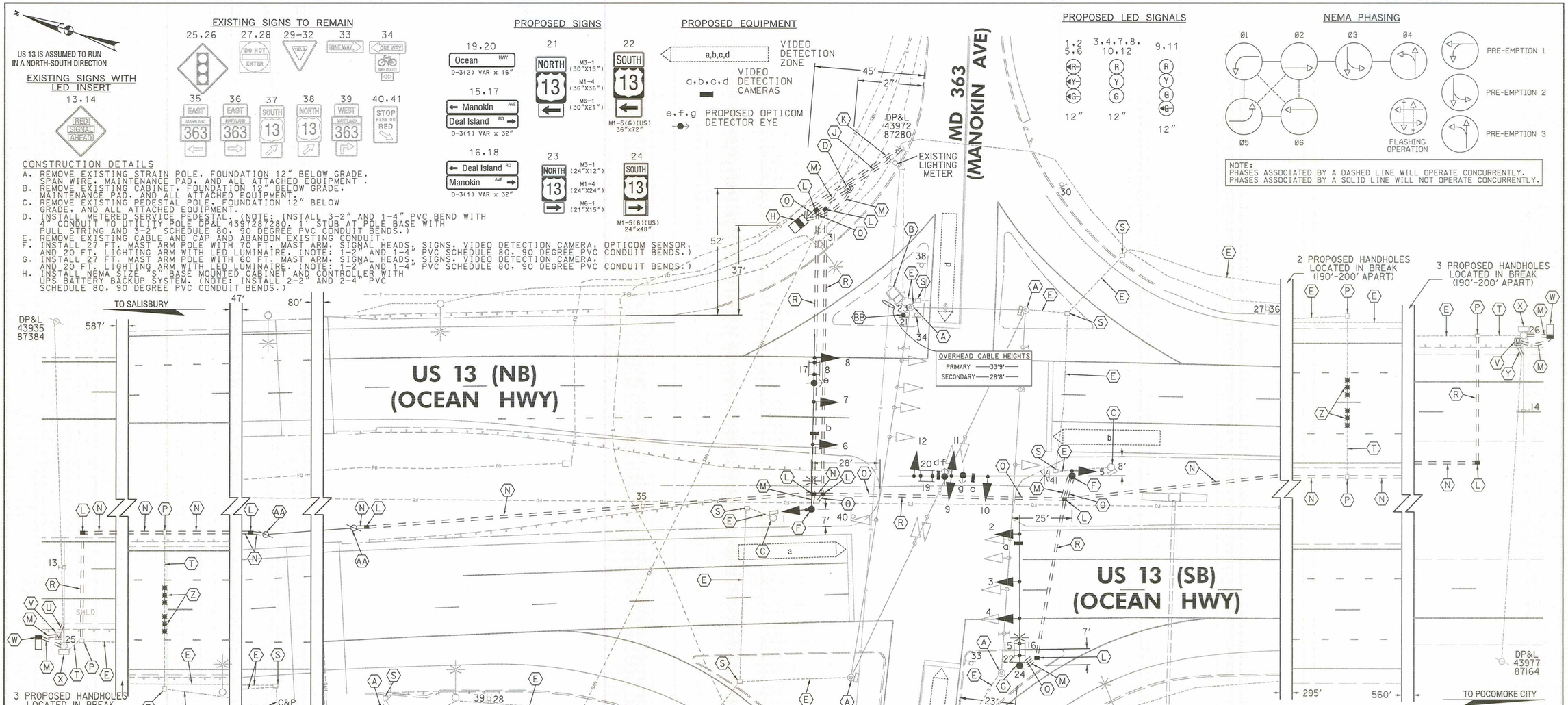
PRE-EMPTION 3

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. INSTALL METERED SERVICE PEDESTAL. (NOTE: INSTALL 3-2" AND 1-4" PVC BEND WITH 4" CONDUIT TO UTILITY POLE DP&L 4397287280. 1" STUB AT POLE BASE WITH PULL STRING AND 3-2" SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS.)
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, 90 DEGREE PVC CONDUIT BENDS.)
G. INSTALL 27 FT. MAST ARM POLE WITH 60 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, AND 20 FT. LIGHTING ARM WITH LED LUMINAIRE. (NOTE: 1-2" AND 1-4" PVC SCHEDULE 80, 90 DEGREE PVC 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, 90 DEGREE PVC CONDUIT BENDS.)




CONSTRUCTION DETAILS - cont.

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. PROVIDE 3" PVC RISER FOR UTILITY COMPANY USE.
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. PROVIDE 3" PVC RISER FOR UTILITY COMPANY USE.
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. USE EXISTING HANDOLE. REBUILD WITH NEW FRAME, COVER AND COLLARS.
R. INSTALL 4" PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
S. REMOVE EXISTING HANDHOLE.
T. USE EXISTING CONDUIT.
U. CONTRACTOR TO WORK WITH DELMARVA POWER TO LOCATE EXISTING POWER CONDUIT FROM UTILITY POLE #DP&L 4393587384. DELMARVA POWER TO DE-ENERGIZE AND PULL BACK EXISTING POWER CABLE. CONTRACTOR EXCAVATE AND INTERCEPT EXISTING POWER FEED CONDUIT WITH 2" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. DELMARVA POWER TO RE-ROUTE POWER FEED TO EXISTING FLASHING SIGN STRUCTURE THROUGH PROPOSED CONDUIT TO METER.
V. INSTALL EMBEDDED METERED SERVICE PEDESTAL. (NOTE: INSTALL 2-2" AND 1-4" SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS.)
W. INSTALL UNINTERRUPTABLE POWER SUPPLY SYSTEM WITHIN A NEMA SIZE 5 CABINET. (NOTE: INSTALL 2-2" AND 2-4" PVC SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS.)
X. USE EXISTING FLASHING SIGN STRUCTURE. USE SPARE 2" CONDUIT BEND IN POLE FOUNDATION FOR POWER FEED FROM NEMA SIZE 5 CABINET.
Y. CONTRACTOR TO WORK WITH DELMARVA POWER TO LOCATE EXISTING POWER CONDUIT FROM UTILITY POLE #DP&L 4397787164. DELMARVA POWER TO DE-ENERGIZE AND PULL BACK EXISTING POWER CABLE. CONTRACTOR EXCAVATE AND INTERCEPT EXISTING POWER FEED CONDUIT WITH 2" PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. DELMARVA POWER TO RE-ROUTE POWER FEED TO EXISTING FLASHING SIGN STRUCTURE THROUGH PROPOSED CONDUIT TO METER.
Z. INSTALL PROPOSED MICROLOOP PROBE IN EXISTING CONDUIT. INSTALL PROPOSED MICROLOOP PROBE LEAD-IN CABLE THROUGH PROPOSING CONDUIT SYSTEM IN THE MEDIAN BACK TO THE SIGNAL CABINET.
AA. INSTALL PROPOSED WOOD POLE, SPAN WIRE, 3" RISER, WEATHERHEAD, AND ALL ASSOCIATED EQUIPMENT.
BB. INSTALL SIGN ON 4"X6" WOOD SIGN SUPPORT.

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

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.

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.
9. ANY EXISTING HANDHOLES FOUND IN BREAKLINES ARE TO BE REMOVED.

1 RED LINE NO. 1
SHEET UPDATED AS PER 1/23/13
FIELD MEETING COMMENTS
DATE: 3/19/13
3/21/13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BY: swilkening

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

4 TRAFFIC SIGNAL RECONSTRUCTION TO REPLACE SPAN WIRE WITH MAST ARMS
XX6615185 TIMS# L183 2 /2013
AJM SJW

I UPGRADE TO VIDEO DETECTION AND NON-INVASIVE DETECTION.
XX3565569 TIMS# J816 12/12/2009
MF

H UPGRADE SIGNALS TO LED, ADD THIRD SIGNAL HEAD FOR US 13 APPROACHES.
XX4485185 TIMS# I621 04/20/2008
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. J816
F.A.P. NO. _____ TOD NO. _____

TS NO. 384J DRAWING SG-01 OF 02 SHEET NO. 3 OF 4

PLOTTED: Tuesday, March 19, 2013 AT 02:52 PM
FILE: Y:\12-0169-46 MD 13 at MD 363\CADD\pSGP003_US13@MD363.dgn