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 — 12"

3,4,7,8, 10,12,42,43 — 12"

9,11 — 12"

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6

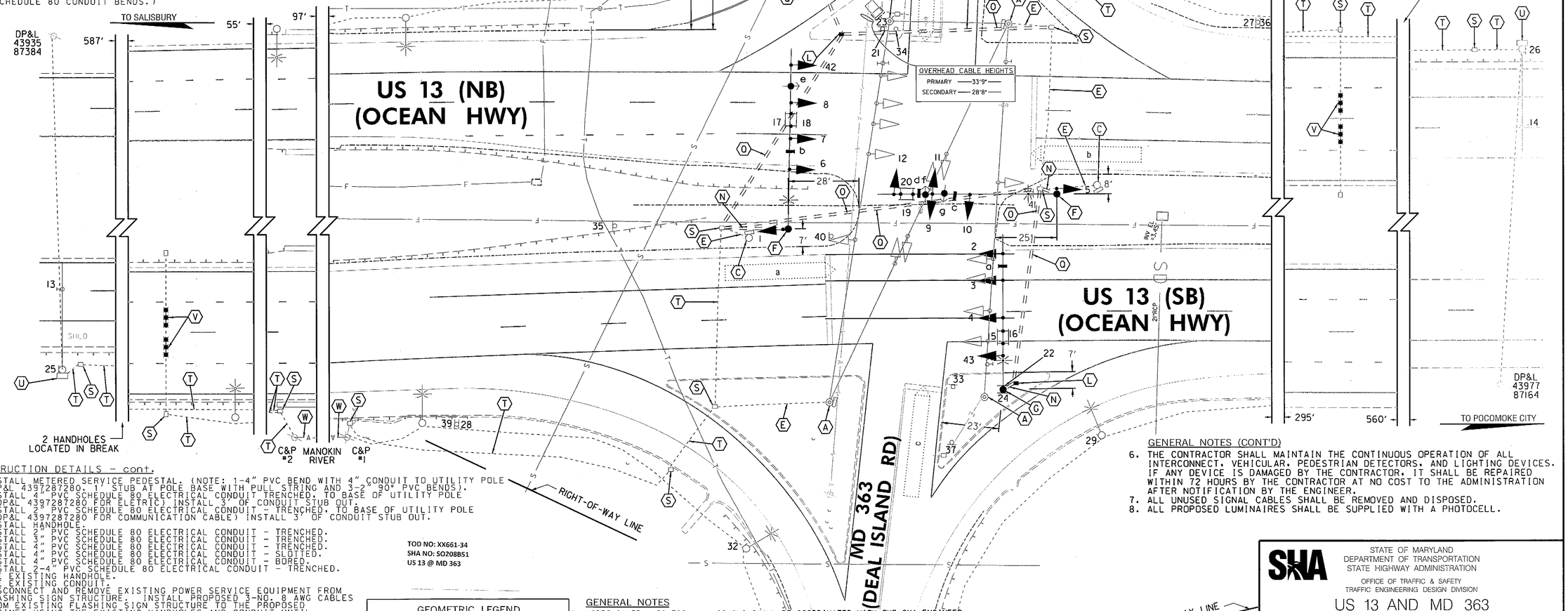
PRE-EMPTION 1

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.

TOD NO: XX661-34
SHA NO: SO208B51
US 13 @ MD 363

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

STORM DRAIN
GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
AERIAL CABLES
TELEPHONE CABLES
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.

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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

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

G	TRAFFIC SIGNAL RECONSTRUCTION TO REPLACE SPAN WIRE WITH MAST ARMS. XX685185 TIMS# L183				10/2/2012
AJM					
I	UPGRADE TO VIDEO DETECTION AND NON-INVASIVE DETECTION. XX3565168 TIMS# J816				12/01/2009
MF					
H	UPGRADE SIGNALS TO LED AND THIRD SIGNAL HEAD FOR US 13 APPROACHES. XX4485185 TIMS# I621				04/20/2006
MFF	JAH	JAH for RB	DBD	WH	WH for TH

PLOTTED: $DATETIME$
FILE: $FILE$

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 2

BY: $USERNAME$

DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV: DATE: June 1, 2004