U.S. 40 ALT IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

EXISTING SIGNS

26,30,31,33 — R3-5L (30" x 36")
34 — R3-6 (30" x 36")
36 — R3-5R (30" x 36")

27 — Campground RD — 28 — Campground RD — D-3(1) (DUAL FACED) (VARIABLE x 16")

25 — Cupler DR — 29 — Cupler DR — D-3(1) (DUAL FACED) (VARIABLE x 16")

32,35,37,38 — National HWY — D-3(1) (VARIABLE x 16")

EXISTING SIGNALS

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

EXISTING VIDEO DETECTION CAMERA

D,E

EXISTING OPTICOM DETECTOR EYE

39

PROPOSED VIDEO DETECTION CAMERA

A,B,C

VIDEO DETECTION ZONE

A

PROPOSED SIGNALS HEADS (LED)

13,14,15,16,17,18 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD

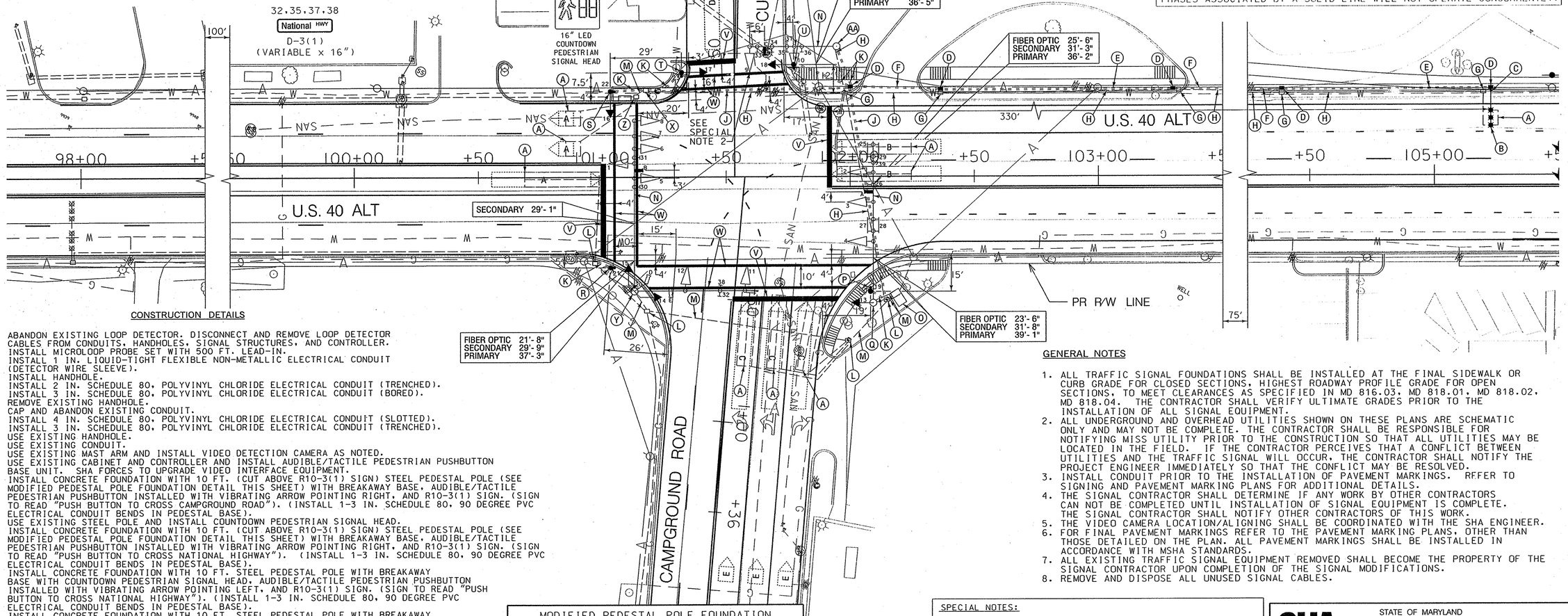
PROPOSED SIGNS

19, 20, 21, 22, 23, 24 — R10-3(1) 9" x 15"

NEMA PHASING

Ø1, Ø2, Ø3, Ø4, Ø2 ALT, Ø3 ALT, Ø5, Ø6, Ø6 ALT, FIREHOUSE PRE EMPTION, FLASHING OPERATION

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

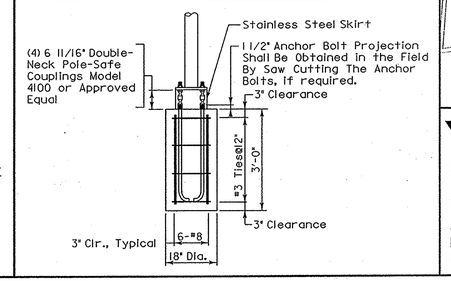


CONSTRUCTION DETAILS

A. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES, AND CONTROLLER.
B. INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN.
C. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
D. INSTALL HANDHOLE.
E. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
F. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
G. REMOVE EXISTING HANDHOLE.
H. CAP AND ABANDON EXISTING CONDUIT.
J. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
K. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
L. USE EXISTING HANDHOLE.
M. USE EXISTING CONDUIT.
N. USE EXISTING MAST ARM AND INSTALL VIDEO DETECTION CAMERA AS NOTED.
O. USE EXISTING CABINET AND CONTROLLER AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT. SHA FORCES TO UPGRADE VIDEO INTERFACE EQUIPMENT.
P. INSTALL CONCRETE FOUNDATION WITH 10 FT. (CUT ABOVE R10-3(1) SIGN) STEEL PEDESTAL POLE (SEE MODIFIED PEDESTAL POLE FOUNDATION DETAIL THIS SHEET) WITH BREAKAWAY BASE, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT, AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS CAMPGROUND ROAD"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
Q. USE EXISTING STEEL POLE AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD.
R. INSTALL CONCRETE FOUNDATION WITH 10 FT. (CUT ABOVE R10-3(1) SIGN) STEEL PEDESTAL POLE (SEE MODIFIED PEDESTAL POLE FOUNDATION DETAIL THIS SHEET) WITH BREAKAWAY BASE, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT, AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS NATIONAL HIGHWAY"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
S. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT, AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS NATIONAL HIGHWAY"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
T. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT, AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS CUPLER DRIVE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
U. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT, AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS CUPLER DRIVE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
V. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
W. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
X. USE EXISTING HANDHOLE AND ADJUST TO FINAL GRADE.
Y. USE EXISTING STEEL POLE AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEADS, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS CAMPGROUND ROAD").
Z. ADJUST EXISTING HANDHOLE TO FINAL GRADE AND DISCONNECT, PULL-BACK, AND REROUTE INTERCONNECT CABLE FROM EXISTING HANDHOLE IN PROPOSED CONDUIT TO EXISTING BASE MOUNTED CABINET.
AA. USE EXISTING STEEL POLE. (INSTALL 1-3 INCH SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN EXISTING POLE BASE).

BY: JRASMUSSEN

MODIFIED PEDESTAL POLE FOUNDATION



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. 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 THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. INSTALL CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
4. THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.
5. THE VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
6. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
7. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.
8. REMOVE AND DISPOSE ALL UNUSED SIGNAL CABLES.

SPECIAL NOTES:

1. THE TACTILE ARROWS FOR THE AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED PARALLEL TO THE CROSSWALK FOR WHICH THEY APPLY.
2. DISCONNECT EXISTING ELECTRICAL CABLES FROM EXISTING SIGNAL HEADS AND RECONNECT PROPOSED ELECTRICAL CABLES. ANY SIGNAL OUTAGE SHALL BE SCHEDULED DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.

WR&A
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Engineers, Architects and Planners
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

APPROVALS

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

REVISIONS

J PED INDICATIONS ADDED ACROSS U.S. 40 ALT. CONTRACT NO. AL8815184 4/1/06 JR NML
I REPLACE LOOP DETECTION DUE TO RESURFACING 02/2003 SHA NO.: AL4015177 MK
H GEOMETRIC IMPROVEMENTS FOR A DOUBLE LEFT ON MD 658 07/2001 SHA NO.: AL8415176 RJM

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

US 40 ALT. & MD 658 (CAMPGROUND ROAD) – CUPLER DRIVE
(LAVALE, MD)

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE OCTOBER 2006 CONTRACT NO. AL8815184

DESIGNED BY
DRAWN BY S.A.
CHECKED BY R.D.
F.A.P. NO. SEE TITLE SHEET
COUNTY ALLEGANY
LOGMILE 07.46
T.I.M.S. NO. G972
TOD NO.

DRAWING NO. TS-321J-TSP-2 OF 4
SHEET NO. 44 OF 129

PLOTTED: 10/30/2006
FILE: N:\31492118\CADD\PSG-P002_US40ALT.DGN