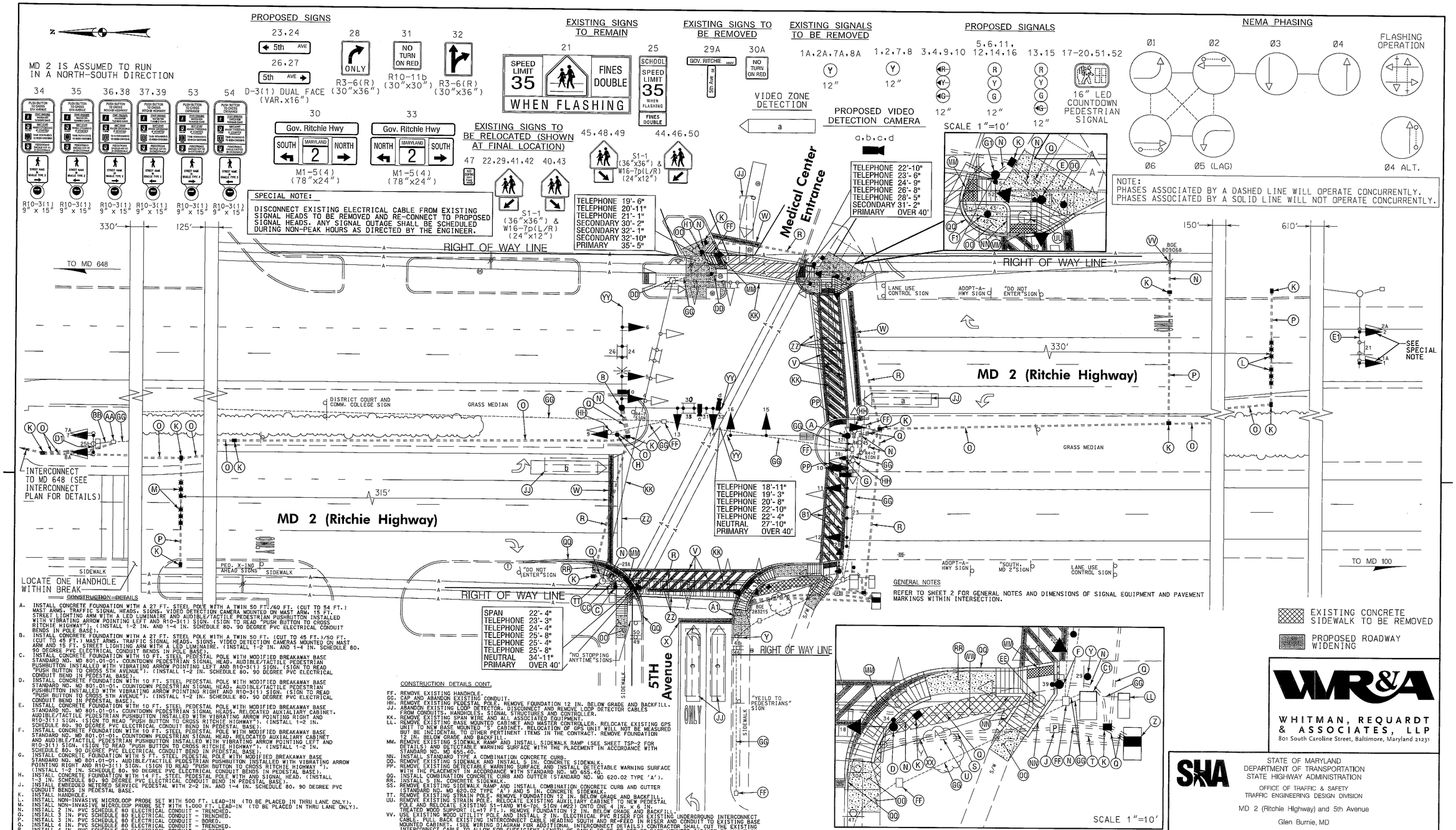

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A TWIN 50 FT./60 FT. (CUT TO 54 FT.) MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA MOUNTED ON MAST ARM, 15 FT. STREET LIGHTING ARM WITH A LED LUMINAIRE AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS RITCHIE HIGHWAY"). (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A TWIN 50 FT. (CUT TO 45 FT.)/50 FT. (CUT TO 45 FT.) MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS MOUNTED ON MAST ARM AND 15 FT. STREET LIGHTING ARM WITH A LED LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

C. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, 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 5TH AVENUE"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).

D. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, 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 5TH AVENUE"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).

E. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, COUNTDOWN PEDESTRIAN SIGNAL HEADS, RELOCATED AUXILIARY CABINET, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS RITCHIE HIGHWAY"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).

F. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, COUNTDOWN PEDESTRIAN SIGNAL HEAD, RELOCATED AUXILIARY CABINET AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS RITCHIE HIGHWAY"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).

G. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS RITCHIE HIGHWAY "). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

H. INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE WITH AND SIGNAL HEAD. (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).

J. INSTALL EMBEDDED METERED SERVICE PEDESTAL WITH 2-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE.

K. INSTALL HANDHOLE.

L. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN. (TO BE PLACED IN THRU LANE ONLY).

M. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN (TO BE PLACED IN THRU LANE ONLY).

N. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

O. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

P. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.

Q. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

R. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.

S. INSTALL 4 IN. SCHEDULE 80. PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.

T. INSTALL 2 IN. SCHEDULE 80. PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND UNDERGROUND ELECTRICAL SERVICE.

U. INSTALL 2 IN. SCHEDULE 80. PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE.

V. INSTALL 12 IN. HEAT APPLIED. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.

W. INSTALL 24 IN. HEAT APPLIED. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.

X. REMOVE EXISTING AND INSTALL 24 IN. HEAT APPLIED. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.

Y. RELOCATE EXISTING R7-4(2) SIGN AND SUPPORT AS SHOWN.

Z. INSTALL NEMA SIZE "S" BASE MOUNTED CABINET AND CONTROLLER, MASTER WITH TELEMETRY WITH SIZE "S" FOUNDATION STANDARD NO. MD 816.07. (INSTALL 3-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)

AA. USE EXISTING HANDHOLE.

BB. USE EXISTING CONDUIT.

CC. REMOVE EXISTING STREET BLADE AND SUPPORT.

DD. REMOVE EXISTING STRAIN POLE AND RELOCATE EXISTING S1-1AND W16-7pL SIGNS (#40 & #41) ONTO ONE 4 IN. x 6 IN. TREATED WOOD SUPPORT (L=17 FT.). REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

EE. REMOVE EXISTING STRAIN POLE. RELOCATE EXISTING AUXILIARY CABINET TO NEW PEDESTAL POLE AND RELOCATE EXISTING S1-1AND W16-7pL SIGNS (#29) ONTO ONE 4 IN. x 6 IN. TREATED WOOD SUPPORT (L=17 FT.). REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

CONSTRUCTION DETAILS CONT.

FF. REMOVE EXISTING HANDHOLE.

GG. CAP AND ABANDON EXISTING CONDUIT.

HH. REMOVE EXISTING PEDESTAL POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

JJ. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS. HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.

KK. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.

LL. REMOVE EXISTING BASE MOUNTED CABINET AND MASTER CONTROLLER. RELOCATE EXISTING GPS UNIT TO NEW BASE MOUNTED SIZE "S" CABINET. RELOCATION OF GPS UNIT WILL NOT BE MEASURED BUT BE INCIDENTAL TO OTHER PERTINENT ITEMS IN THE CONTRACT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

MM. REMOVE EXISTING SIDEWALK RAMP AND INSTALL SIDEWALK RAMP (SEE SHEET TSP-2 FOR DETAILS) AND DETECTABLE WARNING SURFACE WITH THE PLACEMENT IN ACCORDANCE WITH STANDARD NO. MD 655.40.

NN. INSTALL STANDARD TYPE A COMBINATION CONCRETE CURB.

OO. REMOVE EXISTING SIDEWALK AND INSTALL 6 IN. CONCRETE SIDEWALK.

PP. REMOVE EXISTING DETECTABLE WARNING SURFACE AND INSTALL DETECTABLE WARNING SURFACE WITH THE PLACEMENT IN ACCORDANCE WITH STANDARD NO. MD 655.40.

QQ. INSTALL COMBINATION CONCRETE CURB AND GUTTER (STANDARD NO. MD 620.02 TYPE 'A').

RR. INSTALL 5 IN. CONCRETE SIDEWALK.

SS. REMOVE EXISTING SIDEWALK RAMP AND INSTALL COMBINATION CONCRETE CURB AND GUTTER (STANDARD NO. MD 620.02 TYPE 'A') AND 5 IN. CONCRETE SIDEWALK.

TT. REMOVE EXISTING STRAIN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

UU. REMOVE EXISTING STRAIN POLE. RELOCATE EXISTING AUXILIARY CABINET TO NEW PEDESTAL POLE AND RELOCATE EXISTING S1-1AND W16-7pL SIGN (#29) ONTO ONE 4 IN. x 6 IN. TREATED WOOD SUPPORT (L=17 FT.). REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

VV. USE EXISTING WOOD UTILITY POLE AND INSTALL 2 IN. ELECTRICAL PVC RISER FOR EXISTING UNDERGROUND INTERCONNECT CABLE. PULL BACK EXISTING INTERCONNECT CABLE HEADING SOUTH AND RE-FEED IN RISER AND CONDUIT TO EXISTING BASE MOUNTED CABINET. (SEE WIRING DIAGRAM FOR ADDITIONAL INTERCONNECT DETAILS) CONTRACTOR SHALL CUT THE EXISTING INTERCONNECT CABLE ALLOW FOR SUFFICIENT LENGTH OF CABLE TO BE RE-FED TO BASE MOUNTED CABINET TO MAINTAIN COMMUNICATION CONNECTION TO THE HIB. REMOVE AND DISPOSE OF ALL UNUSED INTERCONNECT CABLE.

WW. REMOVE EXISTING SIDEWALK. BACKFILL, SEED AND MULCH.

XX. REMOVE EXISTING OVERHEAD ELECTRICAL FEED.

YY. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.

ZZ. REMOVE EXISTING PAVEMENT MARKINGS.

AT. REMOVE EXISTING MD-11b SIGN AND SUPPORT.

BI. REMOVE EXISTING AND INSTALL 2 IN. HEAT APPLIED. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.

C1. REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. SHA SIGNAL SHOP SHALL BE NOTIFIED TO REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CABINET.

D1. USE EXISTING PEDESTAL POLE. REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW LED SIGNAL HEADS AS SHOWN.

E1. REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW LED SIGNAL HEADS AS SHOWN.

F1. RELOCATED EXISTING S1-1AND W16-7pL SIGNS (#42 & #43) ONTO ONE 4 IN. x 6 IN. TREATED WOOD SUPPORT (L=17 FT.).

G1. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS ENTRANCE"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

H1. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, 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 ENTRANCE"). (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).

BY: sbloss

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

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

APPROVALS

TEAM LEADER
ASST. ENV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

E REBUILD TRAFFIC SIGNAL AND ADD APS TIMS NO. L826 CONTRACT NO. XY1515185 5/31/2013 SRB
D INSTALL SB HIB AND MODIFY NB HIB TIMS# E498 1/19/2001
C AS-BUILT 8/18/1982

PLOTTED: June 03, 2013
FILE: N:\28669-082\CADD\p3G-P001_md2.dgn

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

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

MD 2 (Ritchie Highway) and 5th Avenue
Glen Burnie, MD

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' ADVERTISED DATE 1/162001 CONTRACT NO. XY1515185

DESIGNED BY C. Strain COUNTY Anne Arundel
DRAWN BY C. Strain LOGMILE 02000235.98
CHECKED BY M. Rucker TIMS NO. 1,826
F.A.P. NO. TOD NO.

TS NO. 802E | DRAWING TSP-1 OF 5 | SHEET NO. 1 OF 5