MD 648 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNS TO BE REMOVED

Virginia Avenue 90"X16" (1 EA.)
NO TURN ON RED 30"X30" (1 EA.)
50 STOP HERE ON RED 30"X24"
52 36"X36" 30"X24"
ONE WAY 36"X12" (1 EA.)
Annapolis RD 36"X8" (1 EA.)
51 NO STOPPING ANY TIME 12"X18" (1 EA.)

EXISTING SIGNS TO REMAIN

49 SCHOOL FINES DOUBLE S1-1 FYG 36"X36" S4-3 FYG 36"X12" S4-4(1) 36"X18"

PROPOSED SIGNS

34 NO TURN ON RED R10-11b 36"X36"
30a,30b Annapolis RD D-3(1) 78"X16" (DUAL FACE)
28a,28b,29a,29b Virginia AVE D-3(1) 66"X16" (DUAL FACE)
35,37,39, 41,43,45 S1-1 FYG 36"X36" M6-2 FYG 30"X24"
24,36,38, 40,42,44 S1-1 FYG 36"X36" M6-2 FYG 30"X24"
31 NORTH MARYLAND 648 M1-5(6) 48"X72"
32 NORTH MARYLAND 648 M1-5(6) 30"X48"
33 SOUTH MARYLAND 648 M1-5(6) 48"X72"
46 SOUTH MARYLAND 648 M1-5(6) 30"X51"
27 NO STOPPING ANY TIME R7-4(2) 18"X24"
25 ONE WAY R6-1L 36"X12"
26 ONE WAY R6-1R 36"X12"

EXISTING SIGNALS TO BE REMOVED

R Y G 8" (8 EA.)
12" (4 EA.)

PROPOSED LED SIGNALS

1,2,3,4,5,6, 7,8,9,10,11 R Y G 12"
12,13,14, 15,16,17 16"
a,b PROPOSED IP-BASED VIDEO DETECTION

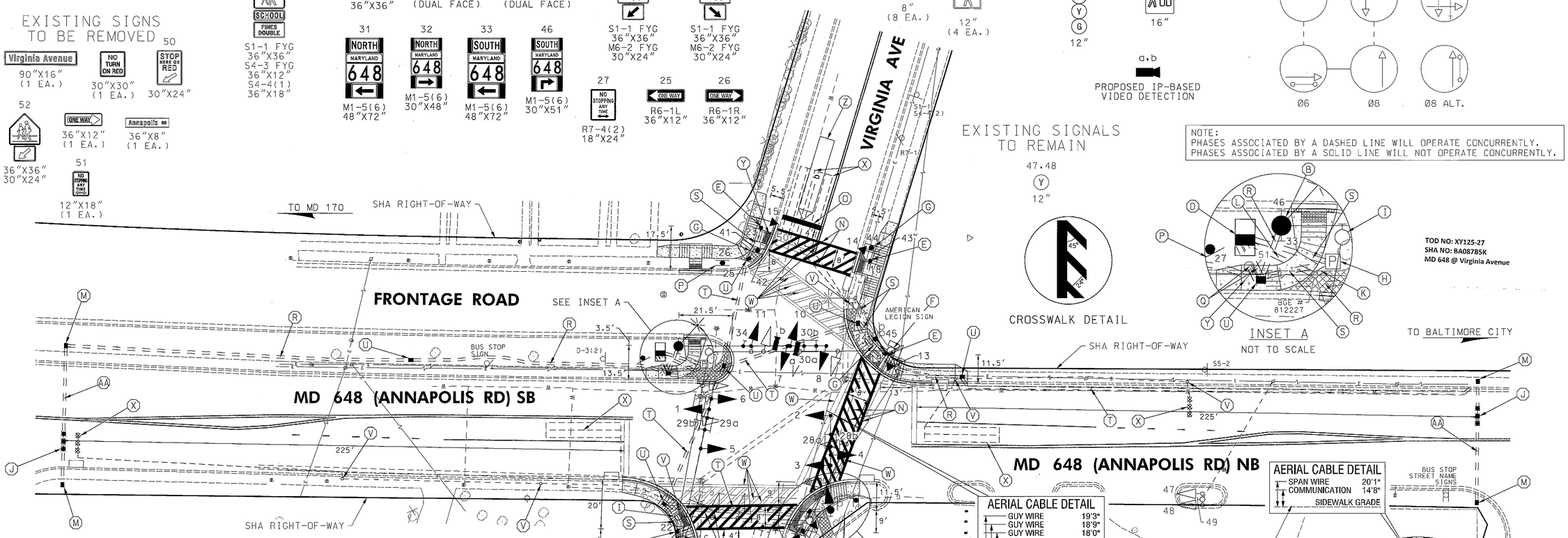
NEMA PHASING

Ø2 Ø4 Ø6 Ø8 FLASHING OPERATION Ø8 ALT.

EXISTING SIGNALS TO REMAIN

47,48 Y 12"

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



CONSTRUCTION DETAILS

A. INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM, LED SIGNAL HEADS, 20 FT. LIGHTING ARM WITH LED ROADWAY LUMINAIRE, AND SIGNS. FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE.

B. INSTALL 27 FT. MAST ARM POLE WITH 60 FT. MAST ARM, LED SIGNAL HEADS, IP-BASED VIDEO DETECTION CAMERAS, 10 FT. LIGHTING ARM WITH LED LUMINAIRE, AND SIGNS. FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE.

C. INSTALL 27 FT. MAST ARM POLE, CUT TO 21 FT., WITH A 38 FT. MAST ARM, LED SIGNAL HEADS, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK), AND SIGNS. FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE. CUT, CLEAN, GALVANIZE, AND CAP TRAFFIC SIGNAL STRUCTURE. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE.

D. INSTALL TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET WITH 2-WIRE APS CENTRAL CONTROL UNIT AND IP-BASED VIDEO DETECTION INTERFACE EQUIPMENT. NOTE: INSTALL 2-2 IN. AND 2-4 IN. CONDUIT BENDS IN BASE.

E. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE. REFER TO STANDARD MD 801.01-01 FOR FOUNDATION DETAILS. NOTE: INSTALL 1-2 IN. CONDUIT BEND IN POLE BASE.

F. REMOVE EXISTING STRAIN POLE, POLE MOUNTED CABINET, AND ASSOCIATED SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. ELECTRICAL SERVICE TO BE DISCONNECTED BY BGE.

G. INSTALL GROUND MOUNTED SIGNS ON 1-4"X6" WOOD SIGN SUPPORT (DRILLED). NOTE: SIGN POSTS INSTALLED IN BRICK OR CONCRETE SHALL HAVE SLEEVED FOUNDATIONS MEETING REQUIREMENTS OF MD 812.05-01 AND MD 812.05-02. SLEEVED FOUNDATIONS ARE INCIDENTAL TO SIGN SUPPORTS.

H. INSTALL 100 AMP EMBEDDED METERED SERVICE PEDESTAL. NOTE: INSTALL 1-4 IN. AND 3-2 IN. CONDUIT BENDS IN BASE. PLUG UNUSED BENDS.

I. REMOVE EXISTING STRAIN POLE AND ASSOCIATED SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

J. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH LEAD-IN CABLE IN CARRIER PIPE. CENTER IN TRAVEL LANE.

K. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. STUB AT UTILITY POLE NO. 812227 FOR POWER FEED.

L. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. STUB AT UTILITY POLE NO. 812227 FOR PHONE DROP.

M. INSTALL ELECTRICAL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO ROADWAY.

N. INSTALL 12 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.

O. INSTALL 24 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.

P. INSTALL GROUND MOUNTED SIGN(S) ON 1-4"X4" WOOD SIGN SUPPORT.

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

R. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

S. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

T. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.

U. INSTALL ELECTRICAL HANDHOLE.

V. REMOVE EXISTING HANDBOX. CAP AND ABANDON EXISTING CONDUITS. BACKFILL TO GRADE.

W. REMOVE EXISTING PAVEMENT MARKING LINE.

X. ABANDON EXISTING LOOP DETECTOR / MICROPROBE SET.

Y. REMOVE EXISTING SIGN AND SUPPORT(S).

Z. PROPOSED VIDEO DETECTION ZONE.

AA. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED FOR CARRIER PIPE.

BB. INSTALL 5 IN. YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINE.

CC. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO VIRGINIA AVE CROSSWALK). FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE. REFER TO STANDARD MD 801.01-01 FOR FOUNDATION DETAILS. NOTE: INSTALL 1-2 IN. CONDUIT BEND IN POLE BASE.

PROPOSED ACCESSIBLE PUSHBUTTONS AND SIGNS

19 — ANNAPOLIS RD R10-3(1) 9"X15"
20 — ANNAPOLIS RD R10-3(1) 9"X15"
21,23 — VIRGINIA AVE R10-3(1) 9"X15"
18,22 — VIRGINIA AVE R10-3(1) 9"X15"

GEOMETRIC LEGEND
EXISTING
PROPOSED

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

BY: BJG

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A RECONSTRUCT SIGNAL, INSTALL APS/CPS 08-2013
SHA NO. XX125B185, TIMS NO. J850
BJG DJD MKP CJW

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

MD 648 (ANNAPOLIS ROAD) AT VIRGINIA AVENUE
LANSDOWNE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 05-12-1987 CONTRACT NO.
DESIGNED BY
DRAWN BY WRS
CHECKED BY DJD
FAP NO.
COUNTY BALTIMORE
LOGMILE 03064800.66
TIMS NO.
TOD NO.

TS NO. 2346A | DRAWING SP-1 OF 2 | SHEET NO. 1 OF 3

PLOTTED: Friday, July 26, 2013 AT 07:54 AM
FILE: \\balservD3\v2008\2008\08148_tcd\ea\Task 132_MD 648 at Virginia\CADD\pSIG-0001_MD648@Virginia.dgn