US 29 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNS TO REMAIN

21,23 R10-11b 30"X30"
22 R3-5(2)R 60"X36"
20 R3-18 30"X30"
26 D-3(1) VAR.X16"
24 D-3(1) VAR.X16"
19 D-3(1) VAR.X16"
29 R3-5R 30"X36"
27,28 R3-5L 30"X36"
25 R3-12a 36"X60"

a,b,c,d PROPOSED IP-BASED VIDEO DETECTION

EXISTING LED SIGNALS TO REMAIN

3,4 12"
5,6 12"
1,2,7,8,10 12"
11 12"
12 16"

NEMA PHASING

Ø2 Ø4 Ø4 ALT. Ø5 Ø6 FLASHING OPERATION

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

PROPOSED ACCESSIBLE PUSHBUTTONS AND SIGNS

15,17 COLUMBIA PIKE R10-3(1) 9"X15"
14,16 COLUMBIA PIKE R10-3(1) 9"X15"

EXISTING SIGNS TO BE REMOVED

14a,15a,16a 9"X12"
18a 24"X24" 24"X12" 21"X15"

PROPOSED SIGNS

18 M3-3 30"X15" M1-4 36"X36" M6-1 30"X24"

SHA RIGHT-OF-WAY

PROPOSED LED SIGNALS

9 12"
13 16"

EXISTING LED SIGNALS TO BE REMOVED

13a 16"
9a 12"/8"

TO MD 650

TO MD 200

US 29 (COLUMBIA PIKE) SOUTHBOUND

US 29 (COLUMBIA PIKE) NORTHBOUND

MARYLAND VEIP EMISSION TEST SIGN

EXISTING INTERCONNECT CONDUIT TO TRAFFIC SIGNAL AT US 29 AND TECH RD.

PEPCO # 80445-1926

INDUSTRIAL PKWY

CONSTRUCTION DETAILS

A. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN HEAD. APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). NOTE: INSTALL 1-2 IN. CONDUIT BEND IN POLE BASE. REFER TO STANDARD MD 801-01.01 FOR FOUNDATION DETAILS. TOP OF FOUNDATION SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE.

B. REMOVE EXISTING PEDESTAL POLE AND ALL ASSOCIATED EQUIPMENT. REMOVE FOUNDATION 12" BELOW GRADE AND BACKFILL.

C. INSTALL 5 FT. BREAKAWAY PEDESTAL POLE WITH APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). NOTE: INSTALL 1-2 IN. CONDUIT BEND IN POLE BASE. FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE. REFER TO STANDARD MD 801-01.01 FOR FOUNDATION DETAILS.

D. INSTALL IP-BASED VIDEO DETECTION CAMERA ON EXISTING LIGHT ARM.

E. INSTALL IP-BASED VIDEO DETECTION CAMERA ON EXISTING STRAIN POLE.

F. INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

G. ADJUST EXISTING HANDHOLE TO FINAL GRADE AND REPLACE FRAME AND COVER.

H. USE EXISTING HANDHOLE.

I. USE EXISTING CONDUIT.

J. PROPOSED VIDEO DETECTION ZONE.

K. USE EXISTING CABINET. INSTALL 2-WIRE APS CENTRAL CONTROL UNIT AND IP-BASED VIDEO DETECTION INTERFACE EQUIPMENT.

L. INSTALL GROUND MOUNTED SIGN ON 1-4"X6" WOOD SIGN SUPPORT (DRILLED).

M. ABANDON EXISTING LOOP DETECTOR.

CONSTRUCTION DETAILS (CONT.)

N. CAP AND ABANDON EXISTING CONDUIT.

O. INSTALL ELECTRICAL HANDHOLE.

P. REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORT.

Q. USE EXISTING PEDESTAL POLE. REMOVE EXISTING PUSHBUTTON AND SIGN. INSTALL APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). PLUG UNUSED HOLES.

R. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED.

S. REMOVE EXISTING PUSHBUTTON AND SIGN FROM THE STRAIN POLE. PLUG UNUSED HOLES. USE EXISTING CONDUIT BEND.

T. REMOVE EXISTING SIGNAL HEAD. INSTALL LED SIGNAL HEAD. USE EXISTING CABLE.

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

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

REVISIONS
B INSTALL APS/CPS 03-2013
ADD IP-BASED VIDEO DETECTION
TIMS NO. L740 SHA NO.XY515185
A REMOVE NB US 29 03-23-1990
DOUBLE RIGHT TURN SIGNALS.
SIGN AND OVERLAP PHASE

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

US 29 (COLUMBIA PIKE) AT INDUSTRIAL PARKWAY
CALVERTON, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 04-24-1986 CONTRACT NO.
DESIGNED BY R.ZACHERL COUNTY MONTGOMERY
DRAWN BY R.ZACHERL LOGMILE 15002906.17
CHECKED BY D.DODA TIMS NO.
FAP NO. TOD NO.

TS NO. 2271B DRAWING SP-1 OF 6 SHEET NO. 1 OF 2

PLOTTED: Wednesday, March 27, 2013 AT 02:32 PM
FILE: \\balsrv03\v2008\2008\08148_bcddes\Task 182_US 29 APS\CADD\pSG-0001_US29@IndustrialPkwy.dgn

BY: WFW