US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED SIGNS

25,26,36 — R3-5R ONLY 30"X36"

27 — M1-5(6) NORTH 1 24"X48"

30 — M1-5(6) SOUTH 1 24"X48"

29 — M1-5(6) SOUTH 1 36"X72"

28 — M1-5(6) NORTH 1 36"X72"

34a,34b,35a,35b — D-3(1) Washington BLVD 90"X16" (DUAL FACE)

32a,32b,33a,33b — D-3(1) Whiskey Btm RD 90"X16" (DUAL FACE)

31,37 — W3-3a(1) FY SIGNAL AHEAD PREPARE TO STOP WHEN FLASHING 120"X48"

EXISTING SIGNS TO BE REMOVED

30"X36" (2 EA.) — ONLY

30"X36" (2 EA.) — ONLY

30"X36" (1 EA.) — ONLY

SIGNAL AHEAD PREPARE TO STOP WHEN FLASHING 120"X60" (2 EA.)

30"X15" 30"X30" 30"X24" (1 EA.) — NORTH 1

24"X12" 24"X24" 21"X15" (1 EA.) — NORTH 1

30"X36" (1 EA.)

Whiskey Bottom 96"X16" (4 EA.)

EXISTING SIGNALS TO BE REMOVED

12"/8" (4 EA.)

12" (4 EA.)

12" (4 EA.)

12" (4 EA.)

EXISTING OPTICOM TO BE REMOVED

PROPOSED LED SIGNALS

1,2,6,7 — 12"

3,8,11,14 — 12"/8"

4,9,12,15 — 12"

5,10,13,16 — 12"

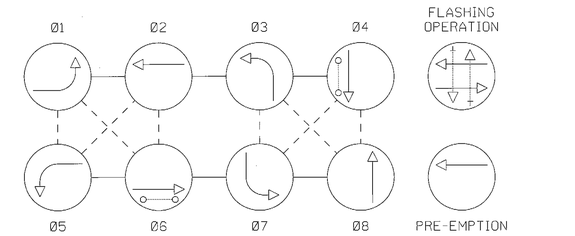
EXISTING SIGNALS TO REMAIN

17,18,19,20 — 16"

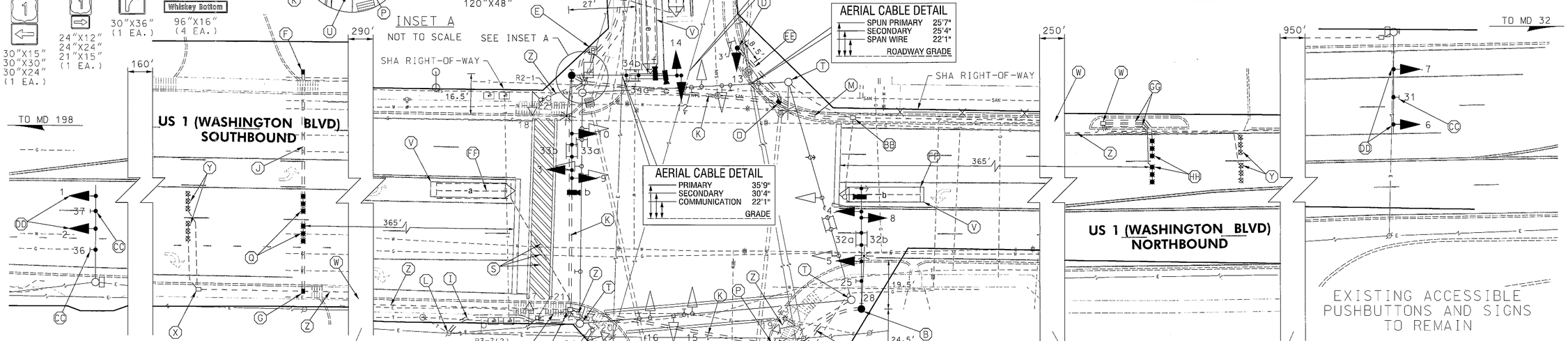
a,b,c,d,e,f — PROPOSED IP-BASED VIDEO DETECTION

PROPOSED OPTICOM

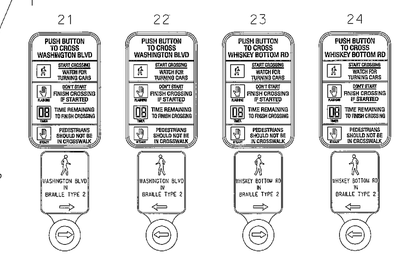
NEMA PHASING



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



EXISTING ACCESSIBLE PUSHBUTTONS AND SIGNS TO REMAIN



CONSTRUCTION DETAILS

A. INSTALL 16.5 FT. MAST ARM POLE (T = 15 FT.) WITH 50 FT. CURVED MAST ARM, LED SIGNAL HEADS, IP-BASED VIDEO DETECTION CAMERAS AND SIGNS. TOP OF FOUNDATION SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE.

B. INSTALL 27 FT. MAST ARM POLE WITH 50 FT. MAST ARM, LED SIGNAL HEADS, IP-BASED VIDEO DETECTION CAMERA, 20 FT. LIGHTING ARM WITH LED LUMINAIRE, AND SIGNS. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE.

C. INSTALL 27 FT. MAST ARM POLE WITH TWIN 50 FT. MAST ARMS (CUT WEST LEG MAST ARM TO 44 FT.), LED SIGNAL HEADS, IP-BASED VIDEO DETECTION CAMERAS, 15 FT. LIGHTING ARM WITH LED LUMINAIRE, AND SIGNS. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.

D. INSTALL 14 FT. PEDESTAL POLE WITH LED SIGNAL HEAD WITH A SIDE OF POLE MOUNTED BRACKET. TOP OF FOUNDATION SHALL BE INSTALLED FLUSH WITH CURB GRADE. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE.

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

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

G. INSTALL ELECTRICAL HANDHOLE. INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO ROADWAY. INTERCEPT EXISTING CONDUIT.

H. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. STUB AT UTILITY POLE NO. 167854.

I. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. STUB AT UTILITY POLE NO. 551900 FOR INTERCONNECT.

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

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

L. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT RISER AND 3 IN. WEATHER HEAD ON UTILITY POLE NO. 551900. DISCONNECT, PULL BACK AND REROUTE EXISTING INTERCONNECT COMMUNICATION CABLE.

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

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

O. INSTALL ELECTRICAL HANDHOLE.

P. USE EXISTING HANDHOLE. REPLACE WITH NEW FRAME AND COVER.

Q. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH LEAD-IN CABLE. INSTALL CENTERED IN TRAVEL LANE.

R. REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORTS.

S. REMOVE EXISTING CROSS HATCHING PAVEMENT MARKING LINES. LONGITUDINAL CROSSWALK LINES TO REMAIN.

T. REMOVE EXISTING STRAIN POLE AND ASSOCIATED TRAFFIC SIGNAL EQUIPMENT. CAP AND ABANDON EXISTING CONDUITS. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

CONSTRUCTION DETAILS (CONT.)

U. REMOVE EXISTING STRAIN POLE AND ASSOCIATED TRAFFIC SIGNAL EQUIPMENT. CAP AND ABANDON EXISTING CONDUITS. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. EXISTING ELECTRICAL SERVICE TO BE DISCONNECTED BY BG&E.

V. PROPOSED VIDEO DETECTION ZONE.

W. USE EXISTING HANDHOLE.

X. REMOVE EXISTING HANDHOLE. CAP AND ABANDON EXISTING CONDUITS AND BACKFILL.

Y. ABANDON EXISTING MICROLOOP PROBES.

Z. USE EXISTING CONDUIT.

AA. USE EXISTING BASE MOUNTED 'S' CABINET. EXISTING 2-WIRE APS CENTRAL CONTROL UNIT AND IP-BASED VIDEO DETECTION INTERFACE EQUIPMENT TO REMAIN.

BB. USE EXISTING HANDHOLE. REPLACE WITH NEW FRAME AND COVER. DISCONNECT, PULL BACK AND REROUTE EXISTING INTERCONNECT CABLE.

CC. REMOVE EXISTING OVERHEAD SIGN. INSTALL OVERHEAD SIGN.

DD. REMOVE EXISTING SIGNAL HEAD. INSTALL LED SIGNAL HEAD. USE EXISTING WIRES.

EE. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.

FF. ABANDON EXISTING LOOP DETECTORS.

GG. INSTALL 1 IN. GALVANIZED STEEL CONDUIT FOR DETECTOR SLEEVE.

HH. INSTALL MICROLOOP PROBE SET WITH LEAD-IN CABLE. INSTALL CENTERED IN TRAVEL LANE.

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: WFW

TOD NO: XX650-22
SHA NO: HO221185A
US 1 @ Whiskey Bottom Road

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

REVISIONS
M — SIGNAL RECONSTRUCTION 11-2012
SHA NO. XX650518S
TIMS NO. L132
L — INSTALL APS/CPS 08-2009
SHA NO. AX7065168
TIMS NO. J825
K — UPGRADE SOUTH HIB. 11-2003
ADD PED PHASE FOR SOUTH LEG
SHA NO. AT3585105. TIMS NO. F765

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

US 1 (WASHINGTON BOULEVARD) AT WHISKEY BOTTOM ROAD
LAUREL, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 11-1987 CONTRACT NO. J-4059

DESIGNED BY R.LIGON
DRAWN BY R.LIGON
CHECKED BY S.RENZI
FAP NO.
COUNTY HOWARD
LOGMILE 13000100.97
TIMS NO.
TOD NO.

TS NO. 79M DRAWING SP-1 OF 3 SHEET NO. 1 OF 3

PLOTTED: Monday, November 19, 2012 AT 03:35 PM
FILE: \\rkm1\c0008\2028\08148_bcdbes\Task 133_US 1 at Whiskey\CADD\p8G-0001-US1@WhiskeyBottom.dgn