MD 212 (POWDER MILL ROAD) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS AND SIGNS

11.13.14

16" LED COUNTDOWN PEDESTRIAN SIGNAL

NOTE
BAG PEDESTRIAN SIGNAL HEAD #11 DURING INSTALLATION OF THE NEW PEDESTRIAN SIGNAL #12. UNBAG WHEN THE RECONSTRUCTED SIGNAL RECOMES OPERATIONAL.

EXISTING SIGNAL (TO BE REMOVED)

12

16" LED COUNTDOWN PEDESTRIAN SIGNAL

EXISTING PUSHBUTTON & SIGN (TO BE RELOCATED)

13p 14p 11p 12p

AUDIBLE/ TACTILE PUSHBUTTON SIGN

R10-3(1) 9" x 15"

PUSHBUTTON SIGN NUMBERS INDICATE THE ASSOCIATED PEDESTRIAN SIGNAL HEAD

PROPOSED SIGNS

21 R3-6(L) 30" x 36"

18 Powder Mill RD D-3(1) VAR. x 16" DUAL-FACED

15a Floral Drive / 15b Floral Drive D-3(1) VAR. x 16" BACK-TO-BACK

16 NORTH MARYLAND 212 SHIELD ASSEMBLY (30"x48")

17 SOUTH MARYLAND 212 SHIELD ASSEMBLY (48"x72")

19 SOUTH MARYLAND 212 SHIELD ASSEMBLY (30"x48") ground-mounted

20 NORTH MARYLAND 212 SHIELD ASSEMBLY (48"x72")

PROPOSED SIGNALS

1,4 2,5 3,6, 7,9,10 8

12"

12

16" LED COUNTDOWN PEDESTRIAN SIGNAL

a.b.c.d PROPOSED VIDEO DETECTION CAMERAS

VIDEO DETECTION ZONE

NEMA PHASING

Ø1 Ø2 Ø4 Ø5 Ø6 Ø8

FLASHING OPERATION

Ø4 ALT.

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

CONSTRUCTION DETAILS

A. INSTALL NEMA 6 BASE-MOUNTED CABINET AND CONTROLLER WITH NECESSARY EQUIPMENT.

B. INSTALL 15' 'T' STEEL POLE WITH TWIN 50' MAST ARMS (34' BUTT SECTION ACROSS FLORAL DRIVE), WITH LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, AND SIGNS (NOTE: 1-3" SCHEDULE 80, 90° PVC BEND).

C. INSTALL 15' 'T' STEEL POLE WITH 70' MAST ARM, WITH LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, AND SIGNS (NOTE: 1-3" SCHEDULE 80, 90° PVC BEND). ANGLE MAST ARM PARALLEL TO AERIAL CABLES.

D. INSTALL ELECTRICAL HANDHOLE.

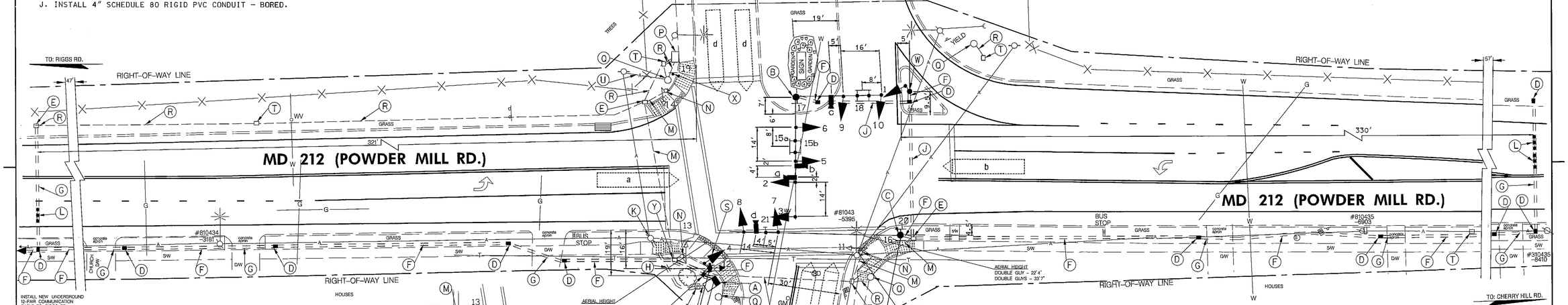
E. USE EXISTING HANDHOLE. REMOVE ALL UNUSED CABLES.

F. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

G. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - BORED.

H. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

J. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED.



CONSTRUCTION DETAILS (cont'd.)

K. PROPOSED SERVICE FEED (NO POLE NO.). PROVIDE A 1' STUB OF 4" CONDUIT ABOVE THE GROUND AT THE BASE OF THE POLE WITH 210' (3 WIRES) OF 1-CONDUCTOR 2/0 AWG SERVICE CABLE COILED FOR SERVICE INSTALLATION BY OTHERS.

L. INSTALL NON-INVASIVE DETECTOR WITHIN 3" CONDUIT - LEAD IN CABLE TO CONTROLLER/ CABINET.

M. USE EXISTING CONDUIT; REMOVE UNUSED CABLES.

N. RE-WIRE EXISTING PEDESTRIAN SIGNAL EQUIPMENT TO THE NEW CONTROLLER/CABINET.

O. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

P. REMOVE EXISTING CONTROLLER/ CABINET AND AUXILIARY EQUIPMENT AND REMOVE THE FOUNDATION AT LEAST 12" BELOW GROUND GRADE.

Q. REMOVE EXISTING SIGNAL STRUCTURE AND ALL ATTACHED EQUIPMENT AND REMOVE THE FOUNDATION AT LEAST 12" BELOW GROUND GRADE.

R. CAP AND ABANDON EXISTING CONDUIT.

CONSTRUCTION DETAILS (cont'd.)

S. REMOVE EXISTING PEDESTAL POLE, EQUIPMENT AND FOUNDATION. REMOVE AND RE-INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND SIGN. INSTALL NEW FOUNDATION (2'x 6') IN THE SAME LOCATION. INSTALL 3" SCHEDULE 80 RIGID PVC TRENCHED TO NEW HANDHOLE, 20' PEDESTAL POLE WITH 5-SECTION LED SIGNAL HEAD (SIDE OF POLE MOUNTED), 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, RE-INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND SIGN (NOTE: 1-3" SCHEDULE 80, 90° PVC BEND). DISCONNECT AND BAG SIGNAL HEAD #11 DURING INSTALLATION (NOTIFY DISTRICT 3 TRAFFIC PRIOR TO TAKING THE PEDESTRIAN PHASE OUT OF SERVICE).

T. REMOVE EXISTING HANDHOLE; CAP AND ABANDON EXISTING CONDUIT.

U. REMOVE EXISTING SERVICE.

V. INSTALL 100 AMP METERED SERVICE PEDESTAL- EMBEDDED.

W. INSTALL 20' PEDESTAL POLE WITH 5-SECTION LED SIGNAL HEAD (NOTE: SIDE OF POLE MOUNTED; USE 1-3" SCHEDULE 80, 90 PVC BEND).

X. INSTALL SHIELD ASSEMBLY SIGN ON 4" x 6" WOOD POST.

Y. USE EXISTING HANDHOLE AND ADJUST TO GRADE. CAP AND ABANDON UNUSED CONDUIT.

GENERAL NOTES:

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. THE EXISTING PAVEMENT MARKINGS WILL BE MAINTAINED.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. THE EXISTING INTERCONNECT CABLE THAT RUNS SOUTH TO THE INTERSECTION OF POWDER MILL ROAD AND RIGGS ROAD SHALL BE REPLACED WITH A NEW 12-PAIR COMMUNICATION CABLE TO THE PROPOSED CONTROLLER/CABINET LOCATION AT FLORAL DRIVE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINAL, AND FOR PROPERLY LABELING EACH CABLE.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING THE PROPOSED SIGNAL EQUIPMENT. IF UTILITY CONFLICTS ARISE, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
8. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING UNUSED CABLES FROM THE EXISTING HANDHOLES AND CONDUIT UTILIZED FOR REVISION 'E'
9. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, AND THE 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.

TOD NO: XX351-19
SHA NO: PG769A5G/K5G
MD 212 @ Floral Drive

STATE ROADS COMMISSION RW PLAT # 1770
PRINCE GEORGE'S COUNTY RW FILE # 13550

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031
PHONE: (443) 589-2400 FAX: (443) 589-2401
REVISION 'E' 26265.21.010

GEOMETRIC LEGEND
- EXISTING
- PROPOSED

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

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

REVISIONS
E RECONST. TO MAST ARMS, VIDEO DET, LED SH; USE EXISTING APS & CPS EQUIPMENT 9/15/2011
SHA #XX3215185 TIMS #K-046
EMM/MVR JGH JGG RDB
D INSTALL APS AND CPS ON THE SOUTH AND WEST LEGS 03/2009
SHA # XX3215185
SOY
C 11/94 - ADD PED. S/GALS, NEAR-SIDE, 5 SECTIONS, LOOPS
TNW SR DAZ ETP TH

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

MD 212 (POWDER MILL ROAD) AT FLORAL DRIVE
ADELPHI, MARYLAND

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE 12/2073 CONTRACT NO. BW-966-312
DESIGNED BY J. GORDON COUNTY PRINCE GEORGE'S
DRAWN BY J.G. & D.D. LOGMILE 16021205.62
CHECKED BY WM FILCH JGH TIMS NO.
F.A.P. NO. TOD NO.
TS NO. 703E DRAWING SG-01 OF 3 SHEET NO. 1 OF 3

PLOTTED: Tuesday, September 20, 2011 AT 02:49 PM.
FILE: J:\DATA\K046\PSE_2nd_Submittal\sG-P001_MD212@FloralDr.dgn

BY: jhenkel