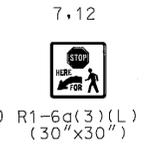


MD 320 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED LED SIGNALS



PROPOSED SIGNS



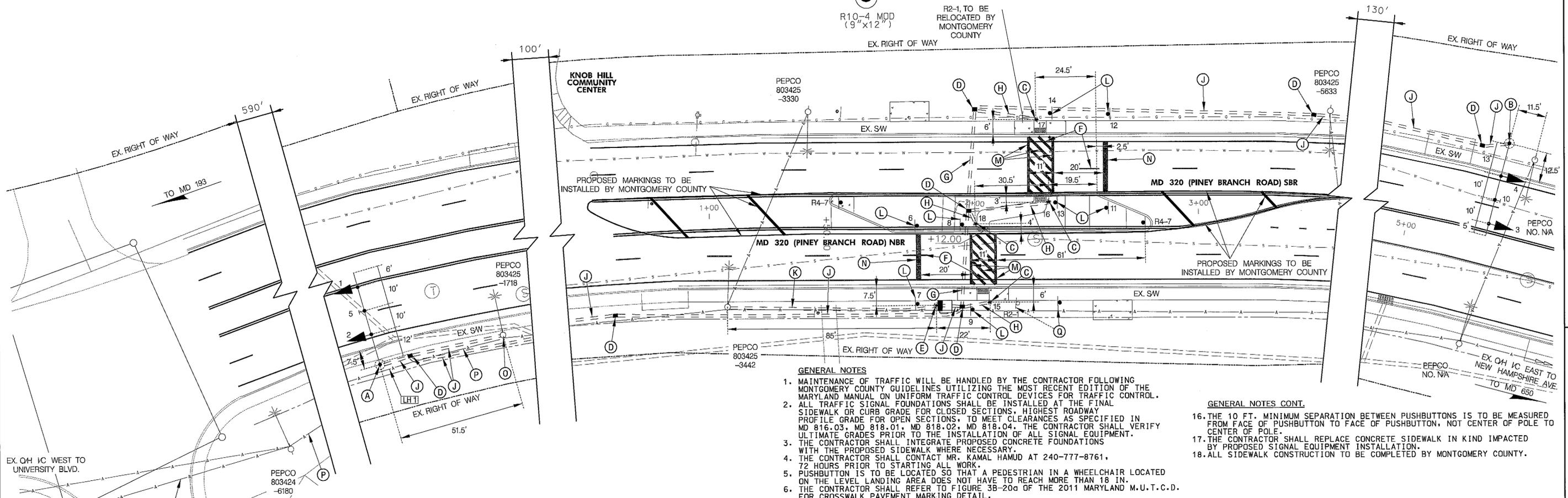
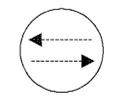
PROPOSED APS MODEL X PUSHBUTTON AND SIGN



EXISTING SIGN TO BE RELOCATED



NEMA PHASING



CONSTRUCTION DETAILS

- A. INSTALL A 16.5 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION, 60 FT. MAST ARM (CUT TO 38 FT.), FOUNDATION, LED TRAFFIC SIGNAL HEADS AND SIGN (NOTE: 1-3 IN. 90 DEGREE PVC CONDUIT BEND).
- B. INSTALL A 16.5 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION, 60 FT. MAST ARM (CUT TO 38 FT.), FOUNDATION, LED TRAFFIC SIGNAL HEADS AND SIGN (NOTE: 1-3 IN. 90 DEGREE PVC CONDUIT BEND).
- C. INSTALL A 5 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION PER SHA STD. MD 801.01-01, BREAKAWAY COUPLINGS, APS MODEL X PEDESTRIAN PUSHBUTTON (ARROW LEFT) AND SIGN R10-4 MOD "PUSH BUTTON BEFORE CROSSING PINEY BRANCH RD" (NOTE: 1-2 IN. 90 DEGREE PVC CONDUIT BEND).
- D. INSTALL ELECTRICAL HANDHOLE.
- E. INSTALL A 20 FT. PEDESTAL POLE (CUT TO 10 FT.) WITH FOUNDATION, ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 100 AMP, A NEMA SIZE "S" POLE MOUNTED CABINET AND A 5 FT. x 5 FT. CONCRETE PAD (NOTE: 1-3 IN. & 1-4 IN. 90 DEGREE PVC BENDS).
- F. REMOVE EXISTING PAVEMENT MARKINGS.
- G. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - PUSHED.
- H. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
- J. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
- K. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE, CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
- L. INSTALL GROUND MOUNTED SIGN ON ONE 4 IN. x 6 IN. WOOD SUPPORT.
- M. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
- N. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
- O. INSTALL 3 IN. GALVANIZED STEEL ELECTRICAL CONDUIT RISER AND 3 IN. WEATHER HEAD ON EXISTING UTILITY POLE.
- P. INSTALL NEW INTERCONNECT CABLE (SEE WIRING DIAGRAM FOR DETAILS).
- Q. RELOCATE EXISTING R2-1 SIGN ON ONE 4 IN. x 6 IN. WOOD SUPPORT.

GENERAL NOTES

1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING MONTGOMERY COUNTY GUIDELINES UTILIZING THE MOST RECENT EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR TRAFFIC CONTROL.
2. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, 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.
3. THE CONTRACTOR SHALL INTEGRATE PROPOSED CONCRETE FOUNDATIONS WITH THE PROPOSED SIDEWALK WHERE NECESSARY.
4. THE CONTRACTOR SHALL CONTACT MR. KAMAL HAMUD AT 240-777-8761, 72 HOURS PRIOR TO STARTING ALL WORK.
5. PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18 IN.
6. THE CONTRACTOR SHALL REFER TO FIGURE 3B-20a OF THE 2011 MARYLAND M.U.T.C.D. FOR CROSSWALK PAVEMENT MARKING DETAIL.
7. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE FOUNDATIONS PRIOR TO INSTALLATION.
8. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MARYLAND MUTCD STANDARDS.
9. THE CONTRACTOR SHALL CENTER THE CROSSWALKS ON THE NEWLY CONSTRUCTED RAMPS.
10. ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE CONSTRUCTED PRIOR TO SIDEWALK INSTALLATION, INCLUDING CONDUIT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH THE ROADWAY CONTRACTOR.
11. MONTGOMERY COUNTY WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING AND DISCONNECTING AND SPLICING OF INTERCONNECT CABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
12. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MARYLAND MUTCD SEC. 4E.09 AND FIG. 4E.2; AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS AND NOTIFY THE PROJECT ENGINEER. A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
13. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60 IN. x 60 IN. LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
14. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS. UTILITY PRIOR TO CONSTRUCTION TO LOCATE UTILITIES. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITY AND TRAFFIC SIGNAL WORK WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT CONFLICTS MAY BE RESOLVED.
15. WOOD SUPPORTS INSTALLED IN CONCRETE SHALL BE INSTALLED WITH SLEEVED FOUNDATIONS AS PER STANDARDS MD 812.05-01 AND MD 812.05-02.

GENERAL NOTES CONT.

16. THE 10 FT. MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
17. THE CONTRACTOR SHALL REPLACE CONCRETE SIDEWALK IN KIND IMPACTED BY PROPOSED SIGNAL EQUIPMENT INSTALLATION.
18. ALL SIDEWALK CONSTRUCTION TO BE COMPLETED BY MONTGOMERY COUNTY.

LINE HEIGHTS (LH) 1	
COMMUNICATION 1	- 19'-5"
COMMUNICATION 2	- 19'-10"
COMMUNICATION 3	- 21'-3"
COMMUNICATION 4	- 25'-8"
SECONDARY	- 30' +
PRIMARY	- 35' +

GEOMETRIC LEGEND	
— EXISTING —	— PROPOSED —

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

APPROVALS	REVISIONS
<i>[Signature]</i> 2/9/2012	
<i>[Signature]</i> 4.13.12	
<i>[Signature]</i> 4/20	

SIGNALIZATION PLAN SHEET		
SCALE 1" = 20'	ADVERTISED DATE 4/2012	CONTRACT NO. MONT. COUNTY
DESIGNED BY MCG	COUNTY MONTGOMERY	
DRAWN BY MCG	LOGMILE 16032002.58	
CHECKED BY MTS	TMS NO. K288	
F.A.P. NO.	TOD NO.	
TS NO. 4843	DRAWING SG-02 OF 03	SHEET NO. 02 OF 03