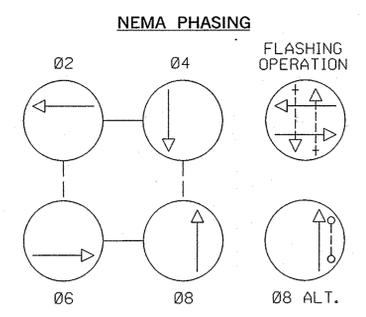
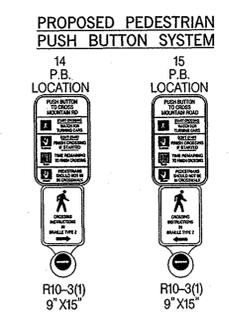
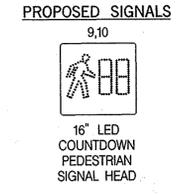
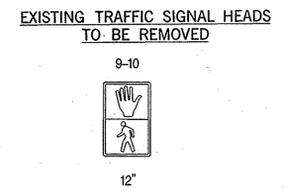
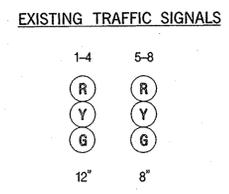
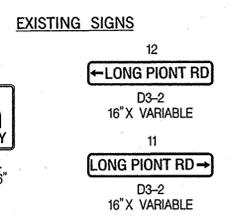
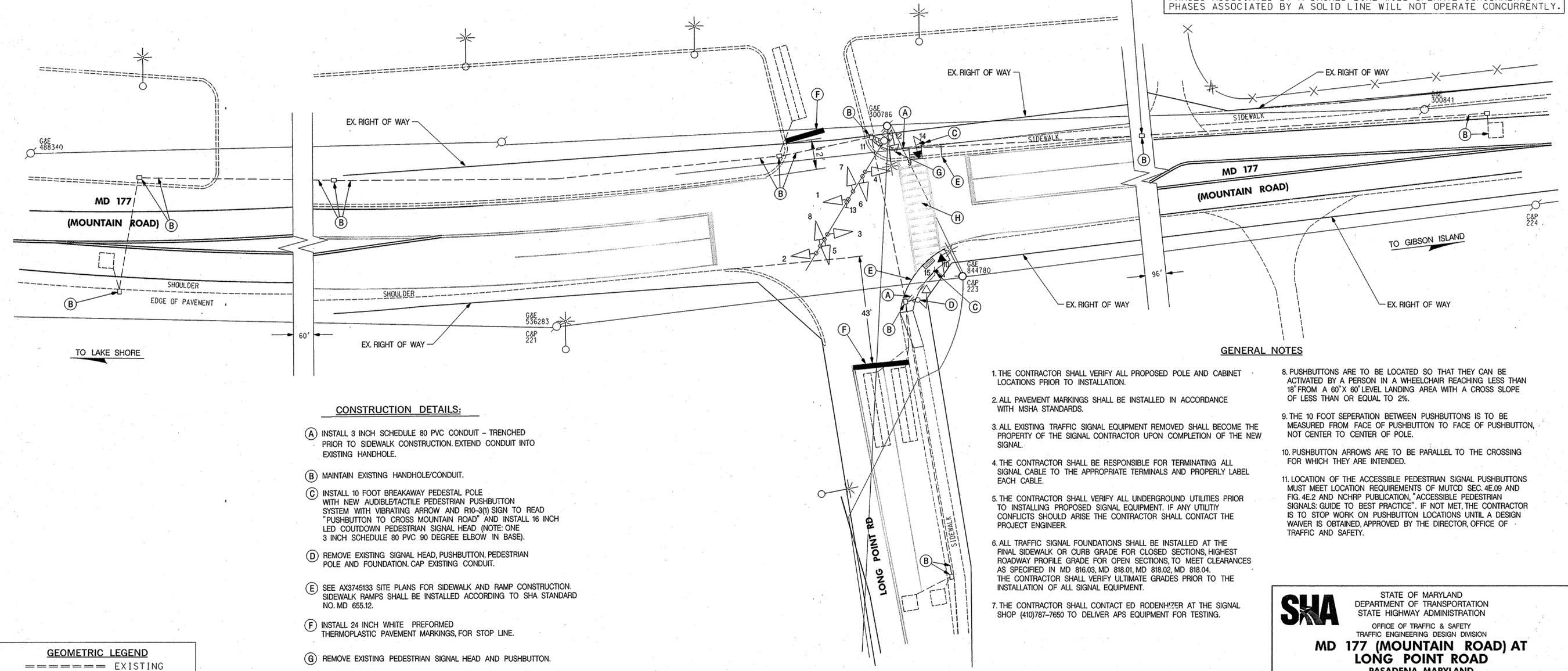


MD 177 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



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

NOTE: ONE HANDBOX IS LOCATED IN THIS AREA.



- CONSTRUCTION DETAILS:**
- (A) INSTALL 3 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED PRIOR TO SIDEWALK CONSTRUCTION. EXTEND CONDUIT INTO EXISTING HANDHOLE.
  - (B) MAINTAIN EXISTING HANDHOLE/CONDUIT.
  - (C) INSTALL 10 FOOT BREAKAWAY PEDESTAL POLE WITH NEW AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSHBUTTON TO CROSS MOUNTAIN ROAD" AND INSTALL 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
  - (D) REMOVE EXISTING SIGNAL HEAD, PUSHBUTTON, PEDESTRIAN POLE AND FOUNDATION. CAP EXISTING CONDUIT.
  - (E) SEE AX3745133 SITE PLANS FOR SIDEWALK AND RAMP CONSTRUCTION. SIDEWALK RAMP SHALL BE INSTALLED ACCORDING TO SHA STANDARD NO. MD 655.12.
  - (F) INSTALL 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS, FOR STOP LINE.
  - (G) REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON.
  - (H) REMOVE EXISTING PAVEMENT MARKINGS (CROSSWALK HATCHING ONLY).

- GENERAL NOTES**
1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
  2. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
  3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
  4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
  5. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
  6. 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.
  7. THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT THE SIGNAL SHOP (410)787-7650 TO DELIVER APS EQUIPMENT FOR TESTING.
  8. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
  9. THE 10 FOOT SEPERATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
  10. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
  11. LOCATION OF THE ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

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

REVISION A CONSULTANT

**WALLACE, MONTGOMERY & ASSOCIATES, LLP**  
 CIVIL AND STRUCTURAL ENGINEERS  
 110 West Road  
 Suite 300  
 Towson, Maryland 21204

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

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION  
**MD 177 (MOUNTAIN ROAD) AT  
 LONG POINT ROAD  
 PASADENA, MARYLAND**

**TRAFFIC SIGNAL PLAN**

SCALE 1" = 20' DATE MAY, 1999 CONTRACT NO. \_\_\_\_\_

DESIGNED BY J. MALINOWSKI COUNTY ANNE ARUNDEL  
 DRAWN BY A.G. STONE LOGMILE 02017707.78  
 CHECKED BY A. MAWRY T.I.M.S. NO. 1774  
 F.A.P. NO. N/A T.S. NO. 2554A

DRAWING NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEET NO. 1 OF 2

SHA NO. AX3745133  
 INSTALL APS/CPS EQUIPMENT. 10/2007  
 M/A P/S [Signature]

PLOTTED: Friday, November 02, 2007 AT 08:00 AM  
 FILE: SFILES