

**GEOMETRIC LEGEND**

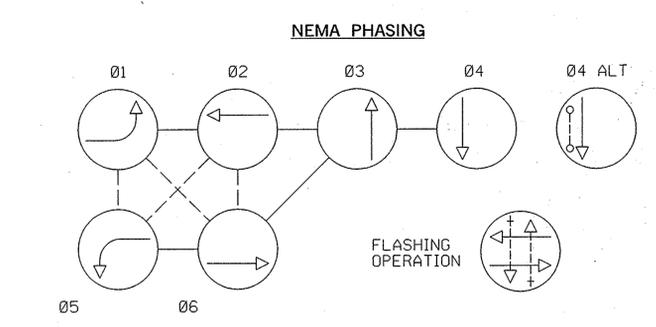
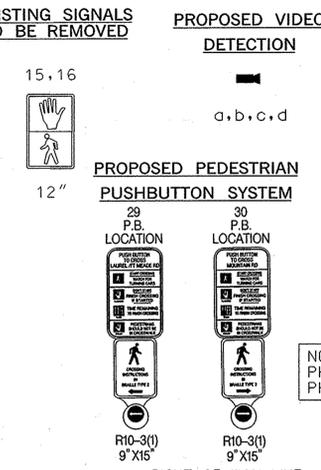
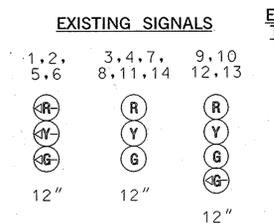
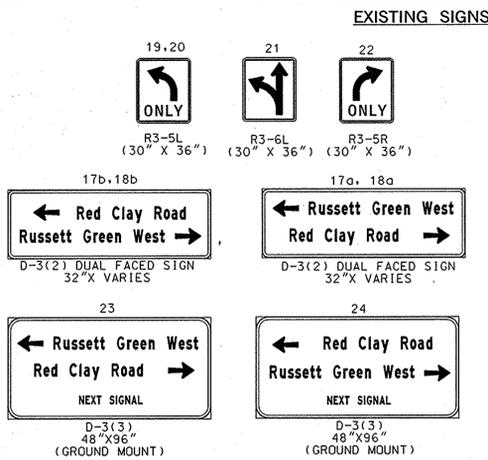
--- EXISTING  
- - - PROPOSED

**UTILITY LEGEND**

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

- CONSTRUCTION DETAILS**
- (A) INSTALL 5 FOOT BREAKAWAY PEDESTAL POLE WITH BREAKAWAY COUPLING (CUT 10 FOOT PEDESTAL POLE TO 5 FEET) WITH NEW AUDIBLE TACTILE PUSH BUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS LAUREL-FORT MEADE ROAD. (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
  - (B) REMOVE EXISTING SIGNAL HEAD AND PUSH BUTTON.
  - (C) INSTALL VIDEO DETECTION CAMERA TO EXISTING SIGNAL POLE.
  - (D) REMOVE EXISTING CROSSWALK MARKINGS. INSTALL 12 INCH WHITE LEAD FREE REFLECTIVE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
  - (E) INSTALL 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE.

- (F) EXISTING LOOP DETECTOR TO BE ABANDONED.
- (G) INSTALL 3 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED PRIOR TO SIDEWALK CONSTRUCTION. EXTEND CONDUIT TO EXISTING POLE.
- (H) INSTALL CONDUIT BEND IN EXISTING FOUNDATION.
- (I) REMOVE EXISTING PAVEMENT MARKINGS.
- (J) SEE AX3745133 SITE PLAN FOR SIDEWALK AND RAMP CONSTRUCTION. RAMPS SHALL BE INSTALLED ACCORDING TO SHA STANDARD NO. 655.12.
- (K) ADJUST EXISTING HANDHOLE TO FINAL GRADE.
- (L) EXISTING EQUIPMENT TO REMAIN.
- (M) INSTALL 10 FOOT BREAKAWAY PEDESTAL POLE WITH BREAKAWAY 'T' BASE WITH NEW 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE TACTILE PUSH BUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS LAUREL-FORT MEADE ROAD. (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (N) REMOVE EXISTING SIGNAL HEAD AND PUSHBUTTON, REPLACE WITH 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD.
- (O) INSTALL DETECTABLE WARNING SURFACE AT EXISTING RAMP.
- (P) INSTALL 10 FOOT BREAKAWAY PEDESTAL POLE (MD 801.01-01) WITH NEW 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE TACTILE PUSH BUTTON SYSTEM WITH VIBRATING ARROW AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS LAUREL-FORT MEADE ROAD. (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (Q) REPLACE LOOP DETECTOR.
- (S) INSTALL 1 INCH DIAMETER RIGID STEEL SCHEDULE 40 CONDUIT - TRENCHED.



**MD 198 (LAUREL-FORT MEADE RD)**

**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. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. 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.
7. 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.
8. THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT SIGNAL SHOP (410)787-7650 TO DELIVER APS EQUIPMENT FOR TESTING.
9. 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. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
10. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF 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 UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
11. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
13. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.

REVISION 'C' CONSULTANT

**WALLACE, MONTGOMERY & ASSOCIATES, LLP**

CIVIL AND STRUCTURAL ENGINEERS

110 West Road  
Suite 300  
Towson, Maryland 21204

APPROVALS

TEAM LEADER

ASST. DIV. CHIEF/EST. DIV. CHIEF

DIVISION CHIEF

OFFICE DIRECTOR

REVISIONS

① SHA NO. AX3745133 UPGRADE PEDESTRIAN SIGNAL TO APS/CS ADD VIDEO DETECTION

② CHANGE BY LT PHASING TO EXCLUSIVE LT PHASING ON MD 198

③ INSTALL PEDESTRIAN PHASING ACROSS WEST LEG

SCALE: 1" = 20'

DATE: August 17, 1990

CONTRACT NO.:

DESIGNED BY: J. Dimdorfer

DRAWN BY: D. Doda

CHECKED BY:

F.A.P. NO.:

DRAWING NO.:

OF:

SHEET NO. 01 OF 02

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

**MD 198 (LAUREL-FORT MEADE RD) AT RED CLAY RD/RUSSETT GREEN WEST MARYLAND CITY, MARYLAND**

PLOTTED: Wednesday, November 07, 2007 AT 09:33 AM FILE: 3FLS