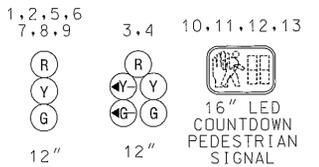
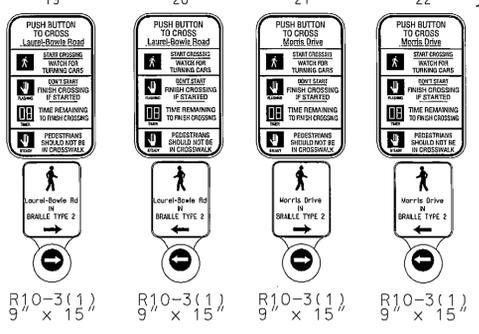


MD 197 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

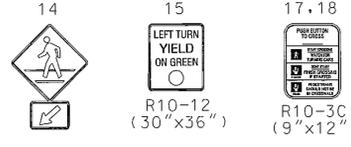
PROPOSED LED SIGNALS



PROPOSED ACCESSIBLE PUSHBUTTONS AND SIGNS



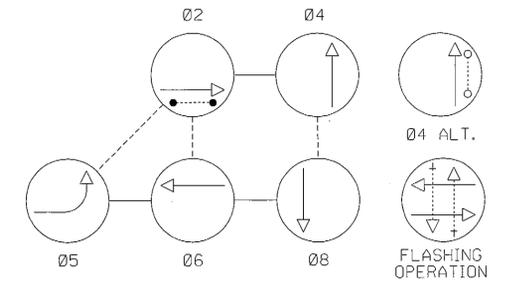
EXISTING SIGNS TO BE REMOVED



EXISTING SIGN TO REMAIN

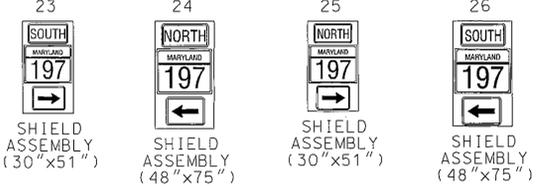


NEMA PHASING

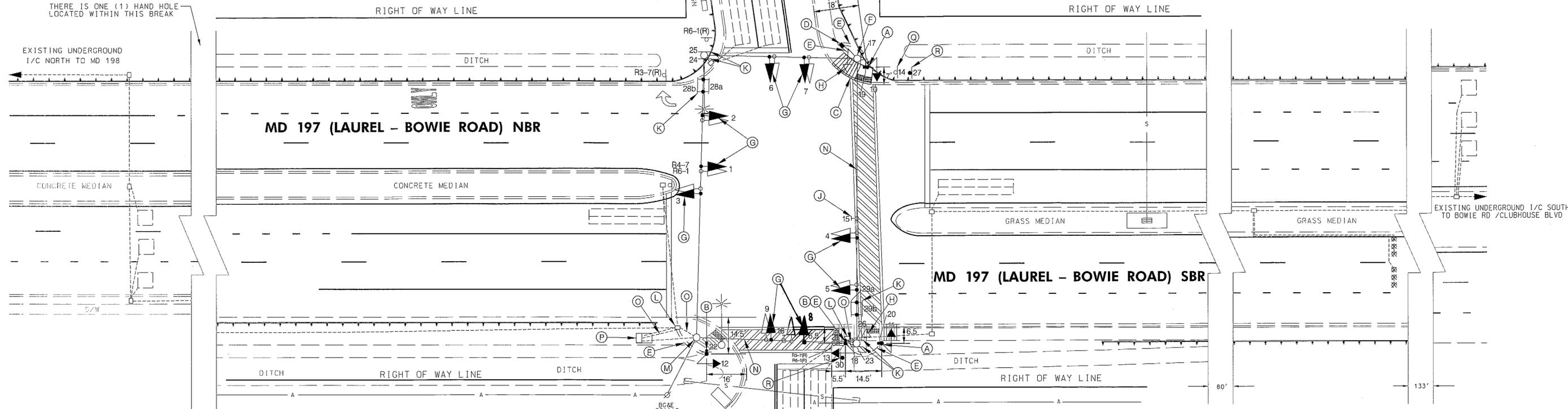
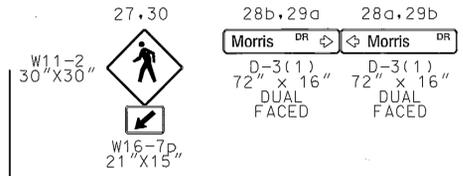


NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

PROPOSED SIGNS



PROPOSED SIGNS CONTINUED



- GENERAL NOTES**
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
  - THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
  - THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
  - WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS. THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
  - 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 816.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
  - THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION. INTEGRATE FOUNDATION WITH SIDEWALK WHERE NECESSARY.
  - THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLE.
  - THE CONTRACTOR SHALL INSTALL ALL CONDUIT PRIOR TO SIDEWALK AND RAMP CONSTRUCTION.
  - ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.

- GENERAL NOTES CONTINUED**
- 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%.
  - ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7650 TO COORDINATE.
  - THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
  - 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.
  - 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 THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
  - PUSHBUTTON ARROWS SHOULD BE ORIENTED PARALLEL TO THE CROSSWALK FOR WHICH THEY ARE INTENDED.
  - THE CONTRACTOR SHALL CONTACT MR. ED RODENHIZER AT THE SHA SIGNAL SHOP (410)787-7650 72 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION.

- CONSTRUCTION DETAILS**
- INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801-01.01. BREAKAWAY COUPLINGS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS LAUREL-BOWIE ROAD" (NOTE: 1-3 IN. 90 DEGREE PVC BEND)
  - INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801-01.01. BREAKAWAY COUPLINGS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS MORRIS DRIVE" (NOTE: 1-3 IN. 90 DEGREE PVC BEND)
  - REMOVE EXISTING SIDEWALK AND RAMP. CONSTRUCT SHA STD. MD 655.12 SIDEWALK RAMP (6 FT. x 5 FT. LEVEL LANDING AREA) WITH DETECTABLE WARNING SURFACE SHA STD. MD 655.40.
  - INSTALL ELECTRICAL HANDHOLE.
  - INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
  - INSTALL 3 IN. SCHEDULE 80 RIGID PVC BEND IN EXISTING SIGNAL POLE FOUNDATION.
  - REMOVE EXISTING SIGNAL HEAD AND INSTALL NEW LED SIGNAL HEAD IN EXISTING LOCATION.
  - REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND SIGN FROM EXISTING STRAIN POLE.
  - REMOVE EXISTING OVERHEAD SIGN.
  - INSTALL OVERHEAD SIGN.
  - USE EXISTING HANDHOLE.
  - USE EXISTING STRAIN POLE.
  - USE EXISTING SPAN WIRE.
  - USE EXISTING CONDUIT.
  - USE EXISTING CABINET.
  - REMOVE EXISTING GROUND MOUNTED SIGN.
  - INSTALL GROUND MOUNTED SIGN ON ONE 4 INCH X 6 INCH WOOD SIGN SUPPORT.

**GEOMETRIC LEGEND**

— — — — — EXISTING  
 — — — — — PROPOSED

**UTILITY LEGEND**

—SD—SD— 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

APPROVALS	REVISIONS
TEAM LEADER	⑥ INSTALL APS/CPS FOR THE SOUTH AND WEST LEGS SHA NO. XX4495185 05/2009 SDY
ASST. DIV. CHIEF	A DETECTOR REPLACEMENT DUE TO ROAD RESURFACING SHA NO. PG480A21 08/28/03 CIS
DIVISION CHIEF	
OFFICE DIRECTOR	

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 MD 197 (LAUREL-BOWIE ROAD) AND MORRIS DRIVE/HOME DEPOT ENTRANCE  
 LAUREL, MD

**SIGNALIZATION PLAN SHEET**

SCALE 1"=20' ADVERTISED DATE JULY 21, 1993 CONTRACT NO. BW-586-802-312

DESIGNED BY: KEN SCHMID COUNTY: PRINCE GEORGE'S  
 DRAWN BY: KEN SCHMID LOGMILE: 16019714.50  
 CHECKED BY: N/A TMS NO.: 1899  
 F.A.P. NO.: N/A TOD NO.: N/A

TS NO. 3343B DRAWING SG-01 OF 02 SHEET NO. 01 OF 02