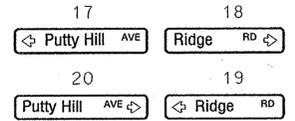


EXISTING SIGNS TO BE REMOVED



EXISTING SIGNS



EXISTING SIGNALS TO BE REMOVED



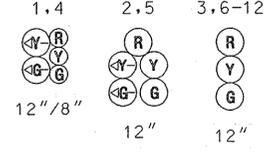
EXISTING VIDEO DETECTION



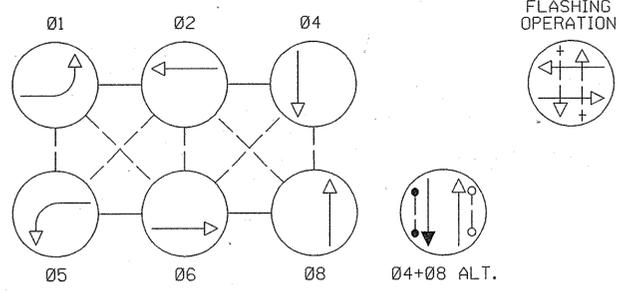
PROPOSED SIGNALS



EXISTING SIGNALS



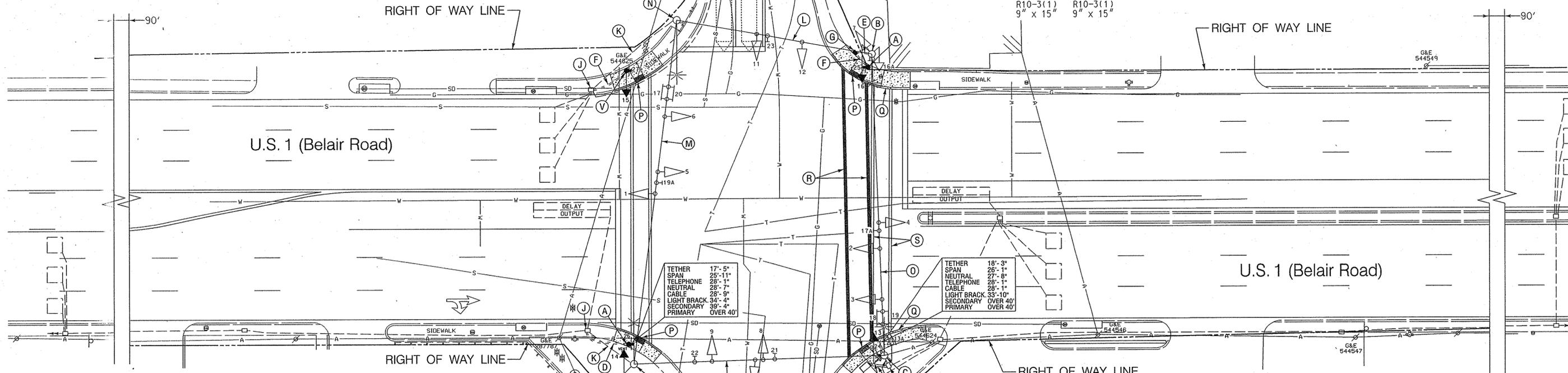
NEMA PHASING



SPECIAL NOTE:
THE TACTILE ARROWS FOR THE AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED PARALLEL TO THE CROSSWALK FOR WHICH THEY APPLY.

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

U.S. 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



- CONSTRUCTION DETAILS**
- A. INSTALL CONCRETE FOUNDATION WITH 10 FT. (CUT JUST ABOVE R10-3(1) SIGN) STEEL PEDESTAL POLE WITH BREAKAWAY BASE (SEE MODIFIED PEDESTAL POLE FOUNDATION DETAIL ON SHEET 6), AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS BELAIR ROAD"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
 - B. USE EXISTING STRAIN POLE. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND R10-4(1) SIGN AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD. DISCONNECT EXISTING PEDESTRIAN SIGNAL HEAD ELECTRICAL CABLE AND CONNECT ELECTRICAL CABLE TO NEW COUNTDOWN PEDESTRIAN SIGNAL HEAD. CLEAN EXISTING DRILLED HOLES WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREAS. USE EXISTING SPARE 2 IN. CONDUIT BEND IN POLE BASE.
 - C. USE EXISTING STRAIN POLE AND INSTALL 3 IN. WEATHERHEAD. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND R10-4(1) SIGN. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS BELAIR ROAD"). DISCONNECT EXISTING PUSHBUTTON ELECTRICAL CABLE AND CONNECT ELECTRICAL CABLE TO NEW PUSHBUTTON. CLEAN EXISTING DRILLED HOLES WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREAS.
 - D. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - E. REMOVE EXISTING SIDEWALK AND INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. TIE 2 IN. CONDUIT INTO SPARE 2 IN. CONDUIT BEND IN POLE BASE. REPLACE 4 INCH CONCRETE SIDEWALK.
 - F. REMOVE EXISTING SIDEWALK AND INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED AND REPLACE 4 INCH CONCRETE SIDEWALK.
 - G. INSTALL HANDHOLE.
 - H. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT.
 - J. USE EXISTING HANDHOLE.
 - K. USE EXISTING CONDUIT.
 - L. USE EXISTING SPAN WIRE.
 - M. USE EXISTING SPAN WIRE. REMOVE EXISTING R10-12 SIGN AS NOTED.
 - N. USE EXISTING STRAIN POLE.
 - O. REMOVE EXISTING R10-12 SIGN ON SPAN WIRE AS NOTED.
 - P. INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.12) AND DETECTABLE WARNING SURFACE (STANDARD NO. MD 655.40).
 - Q. REMOVE EXISTING SIDEWALK RAMP AND INSTALL 4 IN. CONCRETE SIDEWALK AND COMBINATION CONCRETE CURB AND GUTTER (STANDARD NO. MD 620.02 TYPE 'A').
 - R. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
 - S. REMOVE EXISTING PAVEMENT MARKINGS.
 - T. INSTALL 4 INCH CONCRETE SIDEWALK PAD (36" x 54").
 - U. USE EXISTING STRAIN POLE AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD.
 - V. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE (SEE MODIFIED PEDESTAL POLE FOUNDATION DETAIL ON SHEET 6), COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS BELAIR ROAD"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).

- GENERAL NOTES**
1. 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.
 2. 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.
 3. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
 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 REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
 7. PUSHBUTTONS ARE TO BE LOCATED ADJACENT TO A LEVEL (<1:48) LANDING (32" x 54") ALONG THE PEDESTRIAN ACCESS ROUTE LEADING TO THE CROSSWALK.
 8. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E-2, AND THE LATEST EDITION OF THE NCHRP PUBLICATION, 'ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE.'
 9. REFER TO SHEET 6 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.

TOD No: AT782-58
SHA No.: BA563A57/B57
US 1 @ Various Locations - APS

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
U.S. 1 (Belair Road) and
Putty Hill Avenue /Ridge Road

WR&A
Whitman, Reardon
and Associates, LLP
Engineers, Architects and Planners
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

APPROVALS	
TEAM LEADER	
ASST. DIR. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS	
①	ADDED AUDIBLE PEDESTRIAN SIGNALS AND ADA RAMP. SHA NO. AT7825185/01/07/2006
②	AS-BUILT POLES & SIGNALS. REPLACE STREET NAME SIGNS. MODIFICATION BY STATE FORCES. 7/16/2002
③	REBUILD SIGNAL DUE TO THE WIDENING OF U.S. 1 SHA NO. 8-818-504-471 5/5/1993
JD	RS DAZ ETP TH

TRAFFIC SIGNALIZATION PLAN			
SCALE	1" = 20'	DATE	06/04/1980
DESIGNED BY	BRUCE THOMPSON	COUNTY	BALTIMORE
DRAWN BY		LOGMILE	03000105.69
CHECKED BY		TIMS NO.	H330
FAP NO.		TOD NO.	
TS NO. 631 D	DRAWING	OF	SHEET NO. 5 OF 10