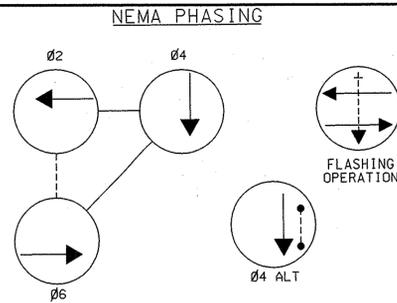
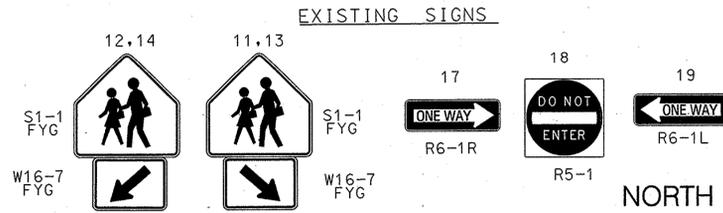
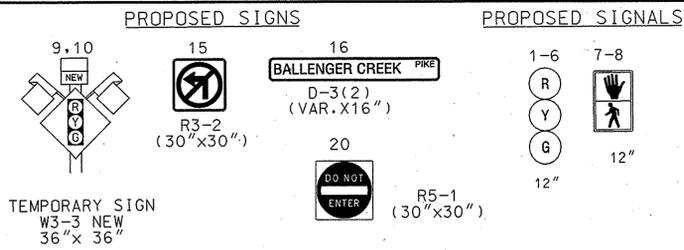
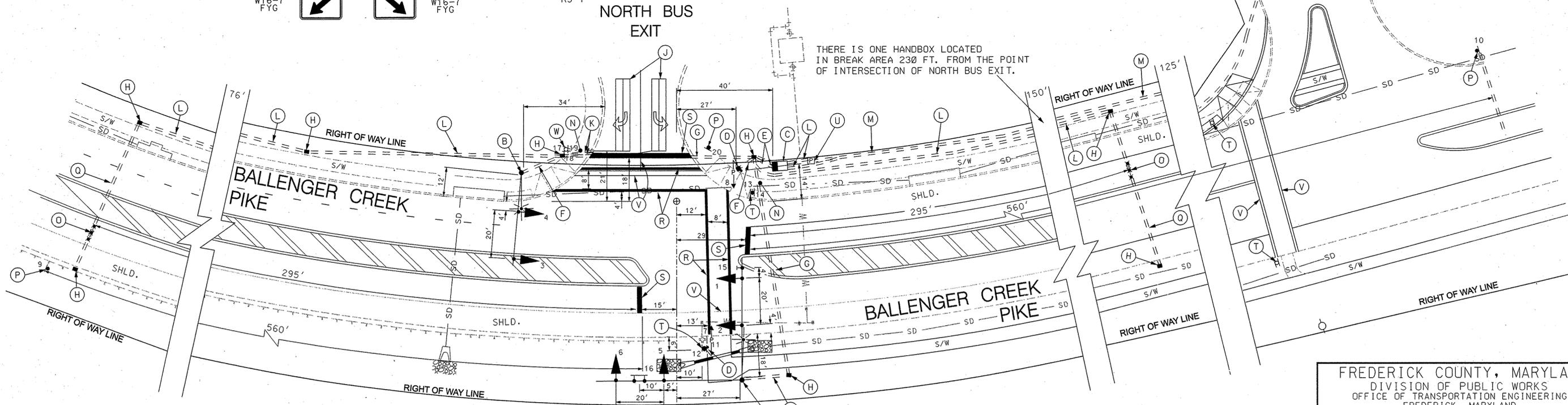


BALLENGER CREEK PIKE IS CONSIDERED TO RUN IN THE NORTH-SOUTH DIRECTION



PHASING NOTES:
 PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
 PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



THERE IS ONE HANDBOX LOCATED IN BREAK AREA 230 FT. FROM THE POINT OF INTERSECTION OF NORTH BUS EXIT.

CONSTRUCTION DETAILS

- A. INSTALL 27' STEEL POLE WITH TWIN 50'/60' MAST ARMS, TRAFFIC SIGNAL HEADS, 15' LIGHTING ARM WITH A 250W-HPS LUMINAIRE AND SIGNS. (NOTE: 1-3", 90° PVC SCHEDULE 80) BEND.
- B. INSTALL 27' STEEL POLE WITH A 38' MAST ARM, SIGNS, TRAFFIC SIGNAL HEADS, AND 15' LIGHTING ARM WITH A 250W-HPS LUMINAIRE. (NOTE: 1-3", 90° PVC SCHEDULE 80) BEND.
- C. INSTALL A BASE MOUNTED CABINET WITH ALL THE NECESSARY EQUIPMENT FOR AN UNDERGROUND FEED AND A PHONE DROP.
- D. INSTALL 10' BREAKAWAY PEDESTAL POLE, PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND SIGN R10-4 SIGN TO READ "PUSHBUTTON TO CROSS BALLENGER CREEK PIKE". (NOTE: 1-3", 90° PVC (SCHEDULE 80) BEND).
- E. INSTALL 4" PVC, SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
- F. INSTALL 3" PVC, SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
- G. INSTALL 4" PVC, SCHEDULE 80 ELECTRICAL CONDUIT (BORED).
- H. INSTALL HANDHOLE.
- J. INSTALL 6' x 30' LOOP DETECTOR WIRE ENCASED IN FLEXIBLE TUBING QUADRUPOLE TYPE 3-6-3 WINDING.
- K. INSTALL 1" GALVANIZED ELECTRICAL CONDUIT (DETECTOR SLEEVE).
- L. INSTALL 2" PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
- M. INSTALL 3" PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND SERVICE BY ALLEGHENY POWER COMPANY AND INSTALL 2" PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR PROPOSED TELEPHONE DROP.
- N. REMOVE EXISTING SIDEWALK SECTIONS AND REPLACE IN KIND AFTER THE INSTALLATION OF THE PROPOSED EQUIPMENT.
- O. INSTALL NON-INVASIVE PROBE SET.
- P. INSTALL GROUND MOUNTED SIGN WITH WOOD POST.
- Q. INSTALL 3" PVC, SCHEDULE 80 ELECTRICAL CONDUIT (BORED).
- R. INSTALL 12" IN. THERMOPLASTIC PAVEMENT MARKING (WHITE) FOR CROSSWALK.
- S. INSTALL 24" IN. THERMOPLASTIC PAVEMENT MARKING (WHITE) FOR STOPLINE.
- T. REMOVE EXISTING S1-1 AND W16-7 SIGNS AND POST. RELOCATED EXISTING SIGNS AND POST TO THE NORTH BUS EXIT AS SHOWN.
- U. INSTALL ELECTRICAL SERVICE PEDESTAL EQUIPMENT - UNDERGROUND.
- V. REMOVE EXISTING PAVEMENT MARKINGS.
- W. REMOVE EXISTING GROUND MOUNTED STOP SIGN.

GENERAL NOTES:

1. THE LOOP DETECTORS AND CONDUIT ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE PAVEMENT MARKINGS.
2. ALL UNDERGROUND 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 SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. 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 818.04 THE CONTRACTOR SHALL VERIFY GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

A	A	AERIAL CABLE
E	E	ELECTRIC
T	T	TELEPHONE
G	G	GAS
S	S	SEWER
W	W	WATER
TV	TV	CABLE TV
SD	SD	STORM DRAIN

APPROVALS	
<i>Amy K. Beall</i> 6/15/05	TEAM LEADER
<i>Michael Ruff</i> 6-15-05	ASST. DIV. CHIEF
<i>Robert E. ...</i> 6/15/05	DIVISION CHIEF
<i>...</i> 6/17	OFFICE DIRECTOR

REVISIONS	

FREDERICK COUNTY, MARYLAND
 DIVISION OF PUBLIC WORKS
 OFFICE OF TRANSPORTATION ENGINEERING
 FREDERICK, MARYLAND

MD 351(BALLENGER CREEK PIKE)
 TUSCARAORA HIGH SCHOOL N. EXIT
 TRAFFIC SIGNAL PLAN

THIS MODIFICATION DESIGNED BY:	
DESIGNED BY _____	DATE _____
DRAWN BY _____	SCALE _____
CHECKED BY _____	
* BAI PERSONNEL	
APPROVED: <i>Alan J. Nash</i>	6/14/05 DATE
DIVISION OF PUBLIC WORKS, DIRECTOR	
APPROVED: <i>...</i>	6-14-05 DATE
DEPARTMENT OF HIGHWAYS AND TRANSPORTATION, HEAD	
APPROVED: <i>Robert E. ...</i>	June 14, 2005 DATE
OFFICE OF TRANSPORTATION ENGINEERING, ENGINEERING MANAGER	

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

MD 351(BALLENGER CREEK PIKE)
 TUSCARAORA HIGH SCHOOL N. EXIT

TRAFFIC SIGNAL PLAN		
SCALE 1"=20'	DATE 04/04/2005	CONTRACT NO. _____
DESIGNED BY M.A. MEARS	COUNTY FREDERICK	
DRAWN BY M.A. MEARS	LOGMILE _____	
CHECKED BY RJM	T. I. M. S. NO. _____	
F.A.P. NO. _____	TOD NO. _____	
DRAWING NO. SG-1 OF SG-2	SHEET NO. 5 OF 6	

PLOTTED: 6/14/05
 FILE: 6/14/05

BY: \$USER\$

BAI

BRUDIS & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 9220 RUMSEY ROAD SUITE 110
 COLUMBIA, MARYLAND 21045
 410-884-3607 410-884-3609(FAX)