

US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

EXISTING SIGNS

21, 23, 25, 28

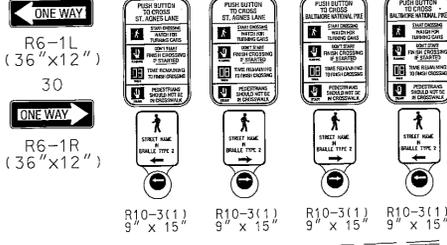
St. Agnes Lane

22, 27 24, 26



PROPOSED SIGNS

29 33, 35 32, 34 36, 38 37, 39



EX. SIGNS TO BE RELOCATED SHOWN AT FINAL LOCATION

28

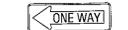


31

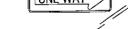


EX. SIGNS TO BE REMOVED

29A



30A



EXISTING SIGNALS TO BE REMOVED

15A-22A



12"

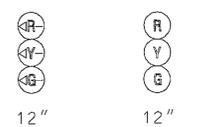
PROPOSED SIGNALS

15-20

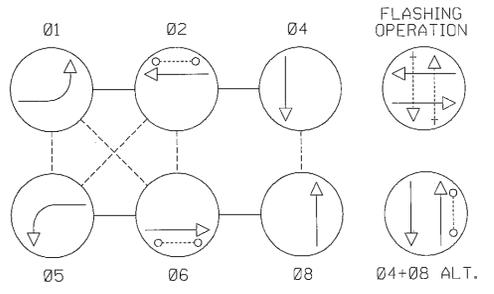


EXISTING SIGNALS

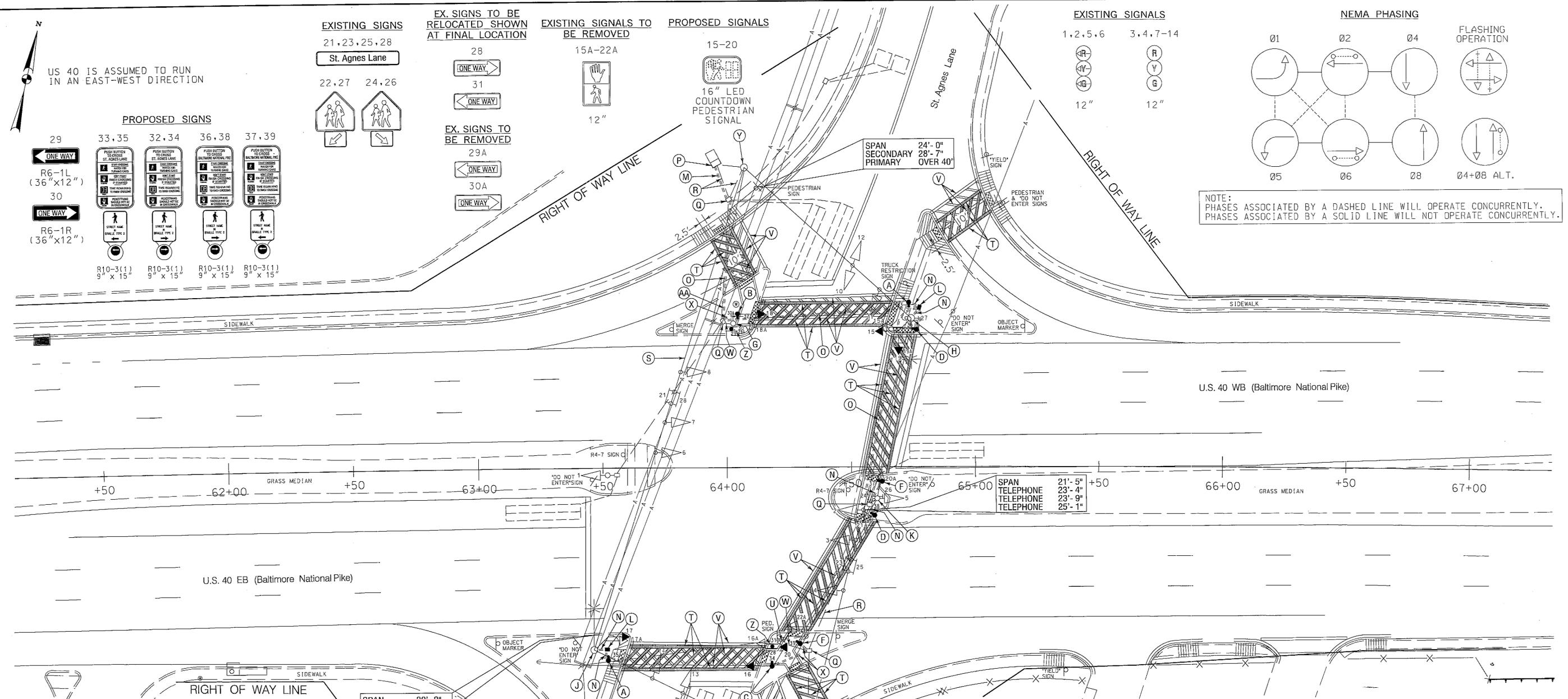
1, 2, 5, 6 3, 4, 7, 14



NEMA PHASING



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



CONSTRUCTION DETAILS

- A. INSTALL CONCRETE FOUNDATION WITH A 10 FT. STEEL PEDESTAL POLE (CUT TO 5 FT.) WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS ST. AGNES LANE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- B. INSTALL CONCRETE FOUNDATION WITH A 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS ST. AGNES LANE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- C. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS ST. AGNES LANE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- D. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS BALTIMORE NATIONAL PIKE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- E. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE (CUT TO 5 FT.) WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS BALTIMORE NATIONAL PIKE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- F. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE (CUT TO 5 FT.) WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS BALTIMORE NATIONAL PIKE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
- G. REMOVE EXISTING PEDESTAL POLE AND SIGNS. REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE.
- H. USE EXISTING STRAIN POLE. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEADS. DISCONNECT EXISTING PEDESTRIAN SIGNAL HEAD ELECTRICAL CABLE AND CONNECT ELECTRICAL CABLE TO ONE (1) NEW COUNTDOWN PEDESTRIAN SIGNAL HEAD. REMOVE EXISTING PEDESTRIAN PUSH BUTTON. CLEAN EXISTING DRILLED HOLE WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREA. INSTALL 3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE.
- I. USE EXISTING STRAIN POLE. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD. INSTALL COUNTDOWN PEDESTRIAN HEAD. INSTALL 3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE.
- J. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSHBUTTON. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD ELECTRICAL CABLE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE.
- K. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS AND PUSHBUTTON. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD ELECTRICAL CABLE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE. CLEAN EXISTING DRILLED HOLES WITH BRUSH AND SPRAY COLD GALVANIZING COMPOUND ON THE AFFECTED AREAS.
- L. INSTALL HANDHOLE.
- M. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- N. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- O. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- P. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT.
- Q. INSTALL 4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN EXISTING FOUNDATION.
- R. USE EXISTING HANDHOLE.
- S. USE EXISTING CONDUIT.
- T. USE EXISTING STRAIN WIRE.
- U. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
- V. REMOVE EXISTING PEDESTAL POLE. RELOCATE EXISTING R6-1TR&L SIGNS (#28 & #31) AS SHOWN. REMOVE AND DISPOSE OF EXISTING FOUNDATION 12 IN. BELOW GRADE.
- W. REMOVE EXISTING PAVEMENT MARKINGS.
- X. CAP AND ABANDON EXISTING CONDUIT.
- Y. REMOVE EXISTING CONCRETE ISLAND AND INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. REPLACE 5 IN. CONCRETE ISLAND.
- Z. USE EXISTING STRAIN POLE.
- AA. INSTALL R6-1TR&L (36"x12") SIGNS ON ONE 4 IN. x 4 IN. TREATED WOOD SUPPORT (L=13.5 FT.). REMOVE EXISTING SIDEWALK AND INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.

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. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
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 CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
7. 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%.
8. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
9. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
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. VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
12. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
13. REFER TO SHEET 5 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.

TELEPHONE SPAN 23'-9"
TELEPHONE 25'-3"

SPAN 30'-2"
SECONDARY 36'-7"
PRIMARY OVER 40'

SPAN 21'-6"
TELEPHONE 23'-4"
TELEPHONE 23'-9"
TELEPHONE 25'-1"

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

GEOMETRIC LEGEND	
---	EXISTING
---	PROPOSED

UTILITY LEGEND	
---	STORM DRAIN
---	GAS MAIN
---	WATER MAIN
---	SEWER MAIN
---	ELECTRIC CABLES
---	AERIAL CABLES
---	TELEPHONE CABLES
---	FIBER-OPTIC

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

REVISIONS	
①	UPGRADE SIGNAL TO APS AND COUNTDOWN PEDESTRIAN SIGNALS CONTRACT SHA NO. AX745168 10/6/2010 CHARGED TO PEDESTAL TO 8' PEDESTAL 3/19/1975
KO	

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
U.S. 40 (Baltimore National Pike) and St. Agnes Lane
Catonsville, Maryland

TRAFFIC SIGNALIZATION PLAN			
SCALE 1" = 20'	ADVERTISED DATE 3/23/1973	CONTRACT NO. D-286-485	
DESIGNED BY	M. Linardi	COUNTY	Baltimore
DRAWN BY		LOGMILE	
CHECKED BY		TMS NO.	
F.A.P. NO.		TOD NO.	
TS NO. 884B	DRAWING TSP-4	OF 12	SHEET NO. 4 OF 12