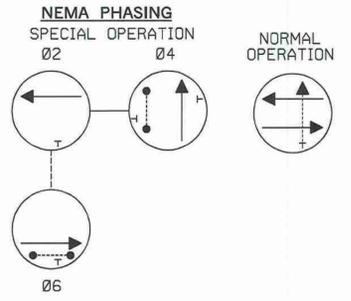
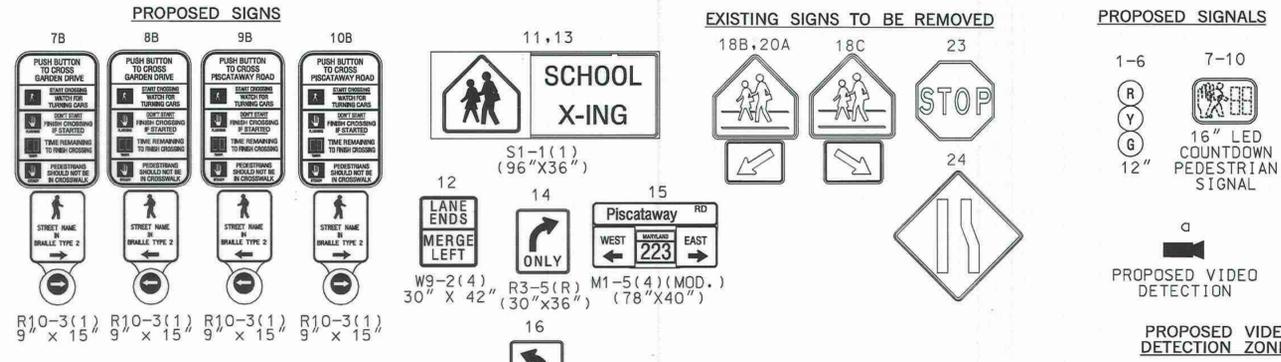
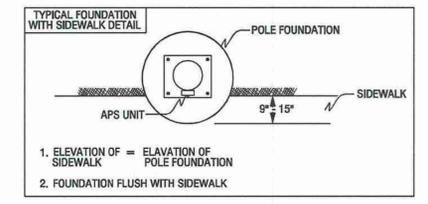
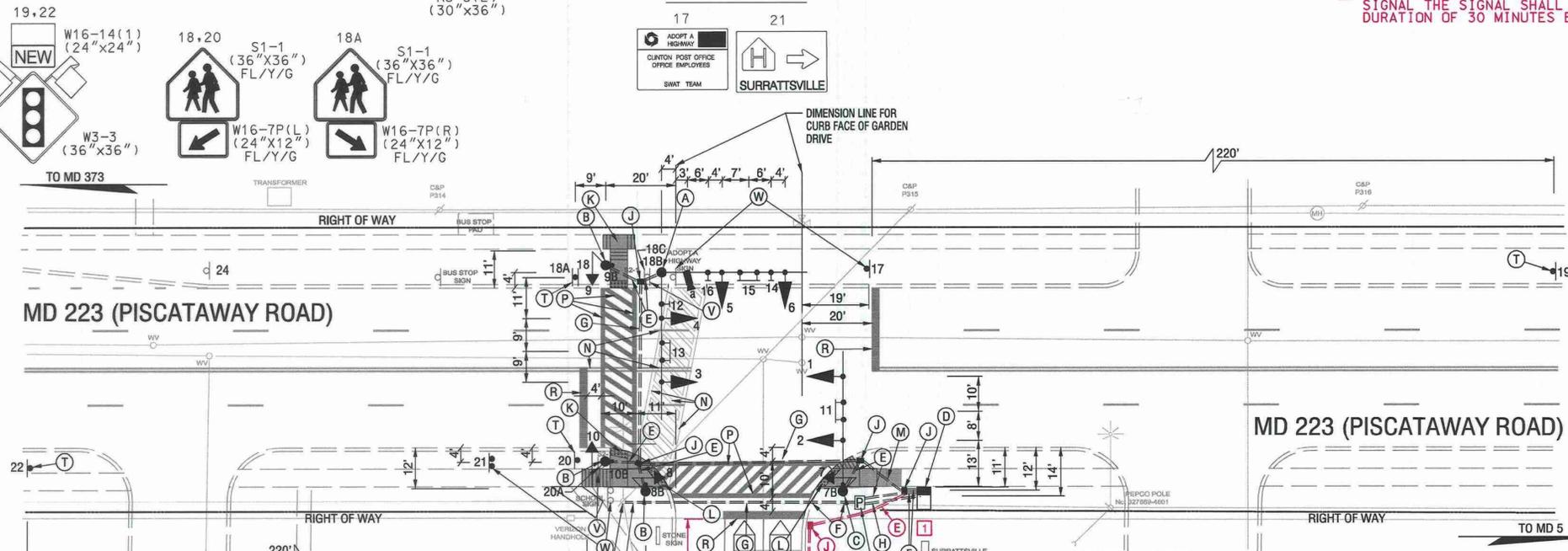


MD 223 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION



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

NOTE: ONCE THE QUEUE LOOP DETECTS A TRAFFIC QUEUE AND ACTIVATES THE SIGNAL THE SIGNAL SHALL OPERATE IN FULL-COLOR MODE FOR A DURATION OF 30 MINUTES BEFORE RETURNING TO FLASHING MODE.



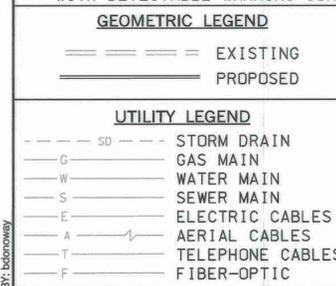
CONSTRUCTION DETAILS

- A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. MAST ARM POLE WITH TWIN 40 FT. MAST ARMS WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- B. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY COUPLING BASE (MD STANDARD 801.01) WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN, AUDIBLE/TACTILE PUSHBUTTON STATION WITH INTERNATIONAL BRAILLE ON THE FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- C. INSTALL CONCRETE FOUNDATION WITH 27 FT. STEEL MAST ARM POLE WITH SINGLE 38 FT. MAST ARM WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, R10-3(1) SIGN, AUDIBLE/TACTILE PUSHBUTTON STATION WITH INTERNATIONAL BRAILLE ON THE FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
- D. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER CABINET WITH VIDEO INTERFACE EQUIPMENT IN THE CABINET. (NOTE: TWO 4 IN. AND TWO 2 IN. BENDS)
- E. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- F. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED
- H. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED FOR THE POWER FEED FROM THE CABINET TO THE METER SERVICE PEDESTAL.
- J. INSTALL HANDHOLE.
- K. REMOVE CONCRETE SIDEWALK AND INSTALL SIDEWALK RAMP (MD STANDARD 655.13) WITH DETECTABLE WARNING SURFACE (MD STANDARD 655.40).
- L. REMOVE CONCRETE SIDEWALK AND INSTALL SIDEWALK RAMP (MD STANDARD 655.11) WITH DETECTABLE WARNING SURFACE (MD STANDARD 655.40).
- M. REMOVE SIDEWALK AND INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED THEN REPLACE 5 IN. SIDEWALK
- N. REMOVE EXISTING PAVEMENT MARKINGS.
- P. INSTALL 12 IN. WHITE HEAT APPLIED, PREFORMED PERMANENT THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
- R. INSTALL 24 IN. WHITE HEAT APPLIED, PREFORMED PERMANENT THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINES
- S. INSTALL EMBEDDED METER SERVICE PEDESTAL.
- V. INSTALL 4 IN. X 6 IN. WOOD POST WITH SIGN AS SHOWN.
- W. REMOVE EXISTING SIGN AND POST.
- X. REMOVE AND RELOCATE EXISTING SIGN AND POST AS SHOWN ON PLAN.
- Y. VIDEO DETECTION ZONE.
- Z. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED, STUB-UP TO PEPCO UTILITY No. 327889-4601.
- AA. INSTALL 5 IN. SOLID WHITE LANE LINE AS SHOWN.
- BB. INSTALL 6 FT. X 20 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEX TUBING (3-6-3 TURNS)

GENERAL NOTES

- 1. 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 THEN OR EQUAL TO 2%.
- 2. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- 3. PUSHBUTTON ARROWS ARE TO BE PARRALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- 4. 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.

CONSTRUCTION DETAILS CONTINUED  
 CC. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (FOR DETECTOR WIRE SLEEVE).  
 DD. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.



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| APPROVALS  | REVISIONS   |
|--|---|
| <p>1 REDLINE REVISION NO. 1 4/20/2010</p>        | <p>1 REDLINE REVISION NO. 1 INSTALL 6 FT. X 20 FT. QUEUE LOOP DETECTOR ON GARDEN DRIVE. SHA NO. 004445185 DATE: 04/20/2010 SWA/SS</p> |
| <p>TEAM LEADER, TRAFFIC ENGINEERING DIVISION</p> |   |
| <p>ASST. CHIEF TRAFFIC ENGINEERING DIVISION</p>  |   |
| <p>CHIEF TRAFFIC ENGINEERING DIVISION</p>        |   |
| <p>DIRECTOR, OFFICE OF TRAFFIC &amp; SAFETY</p>  |   |

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

**MD 223 (PISCATAWAY ROAD)  
 AT GARDEN DRIVE**

CLINTON, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE DECEMBER, 2009 CONTRACT NO. XX4445185

DESIGNED BY S. SMITH COUNTY PRINCE GEORGE'S  
 DRAWN BY S. SMITH LOGMILE 18022306.40  
 CHECKED BY J. WEAVER T.I.M.S. NO. J689  
 F.A.P. NO. TOD NO.

TS NO. 4722 DRAWING 1 OF 3 SHEET NO. OF