

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF FLASHING WARNING BEACONS AND PEDESTRIAN RAMPS AT THE INTERSECTION OF BROOKVILLE ROAD AT MONTGOMERY STREET.

II. SPECIAL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.

APS WILL FUNCTION AS FOLLOWS:

- A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSH BUTTON FOR AN EXTENDED TIME, THE PUSH BUTTON MESSAGE WILL BE "YELLOW LIGHTS ARE FLASHING" UPON ACTIVATION OF THE FLASHING WARNING BEACON.
B. THE FLASH DURATION OF THE FLASHING WARNING BEACON WILL BE DETERMINED BY THE ENGINEER.

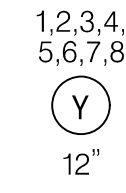
CONSTRUCTION DETAILS

- A. INSTALL 14 FT. PEDESTAL POLE WITH FOUNDATION (SHA STD. MD 801.01), TRANSFORMER BASE, ALUMINUM CONTROL CABINET, LED SIGNAL HEADS, PROPOSED SIGNS, AND AUDIBLE PUSHBUTTON STATION AND SIGN KIT.
B. INSTALL 200 AMP EMBEDDED METERED SERVICE PEDESTAL (NOTE: 1-2 IN. AND 1-4 IN. PVC 90 DEGREE BEND).
C. INSTALL ELECTRICAL HANDHOLE WITH GROUND ROD.
D. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED WITH NO. 6 BARE COPPER GROUND WIRE FROM THE GROUND ROD IN THE HANDHOLE TO THE GROUND LUG LOCATED IN THE TRANSFORMER BASE.
E. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND POWER SERVICE. CAP AND MARK CONDUIT, LEAVE 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
G. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK (SEE THIS SHEET FOR DETAIL).
H. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE.
I. REMOVE EXISTING PAVEMENT MARKINGS.
K. RELOCATE EXISTING GROUND MOUNTED SIGN ON NEW GALVANIZED STEEL SUPPORT.
L. INSTALL PROPOSED GROUND MOUNTED SIGN ON NEW GALVANIZED STEEL SUPPORT.
M. REMOVE EXISTING SIDEWALK RAMP AND BACKFILL WITH FURNISHED TURFGRASS SOD.
N. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT NEW SIDEWALK PEDESTRIAN RAMP WITH DETECTABLE WARNING SURFACE, BACKER CURB AND GUTTER (SEE RAMP DETAIL A ON THIS SHEET).
O. CONSTRUCT NEW SIDEWALK PEDESTRIAN RAMPS WITH DETECTABLE WARNING SURFACES, BACKER CURB AND GUTTER (SEE RAMP DETAIL B ON THIS SHEET).
P. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT NEW SIDEWALK PEDESTRIAN RAMPS WITH DETECTABLE WARNING SURFACES, BACKER CURB AND GUTTER (SEE RAMP DETAIL C ON THIS SHEET).
R. TRIM TREES TO ENSURE VISIBILITY OF THE PROPOSED FLASHING BEACON SIGNAL HEADS AS NECESSARY.

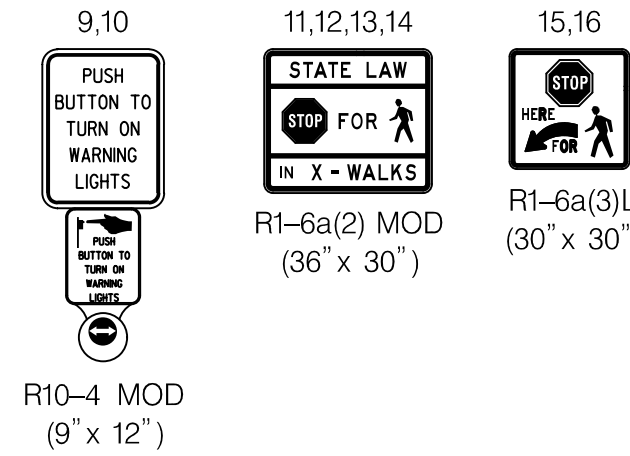
GENERAL NOTES

- 1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MONTGOMERY COUNTY STANDARD TYPICALS FOR TRAFFIC CONTROL.
2. RIGHT OF WAY LINES SHOWN ARE NOT OFFICIAL RIGHT OF WAY AND EASEMENT INFORMATION. SEE APPROPRIATE RIGHT OF WAY PLATS.
3. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY EXCAVATION WORK. ALL EXCAVATIONS WITHIN 36 INCHES OF UNDERGROUND UTILITIES SHALL BE PERFORMED BY HAND DIGGING.
4. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
5. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE FOUNDATIONS PRIOR TO INSTALLATION. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A SIDEWALK LEVEL LANDING AREA AND DOES NOT HAVE TO REACH MORE THAN 18 IN. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
6. CONTRACTOR SHALL CENTER PROPOSED CROSSWALK MARKINGS ON PROPOSED SIDEWALK RAMPS.
7. EXISTING TREES IN THE NORTHEAST CORNER SHALL BE REMOVED BY THE CONTRACTOR IF IMPACTED BY THE CONSTRUCTION OF PROPOSED SIDEWALK RAMP.

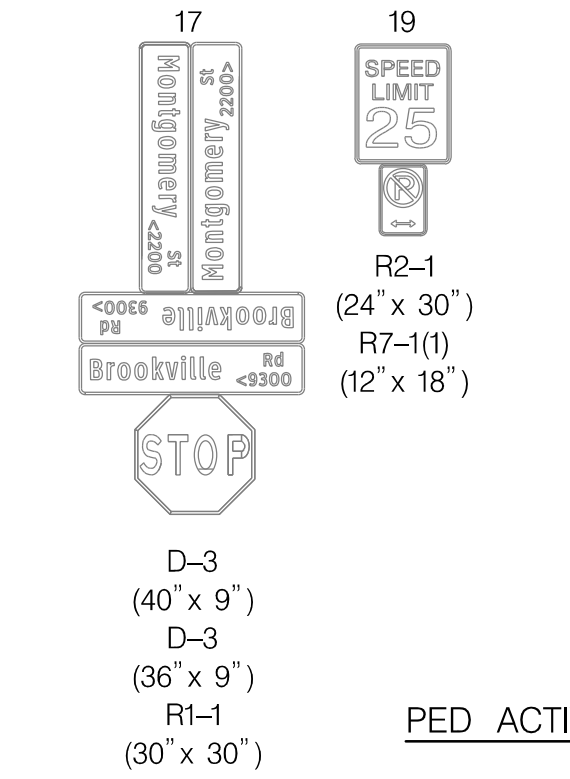
PROPOSED LED SIGNALS



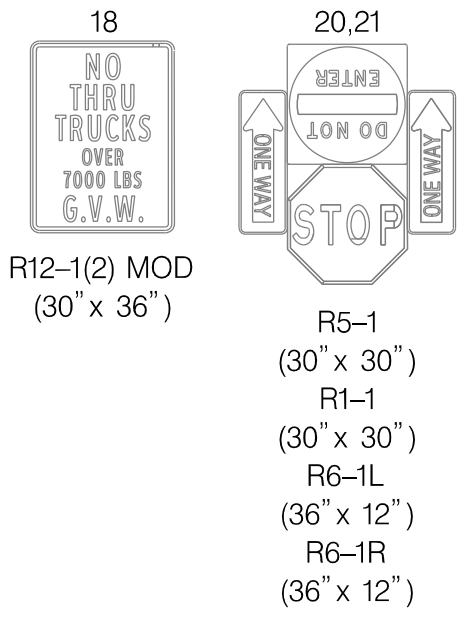
PROPOSED PUSHBUTTON AND SIGNS



EXISTING SIGNS TO BE RELOCATED



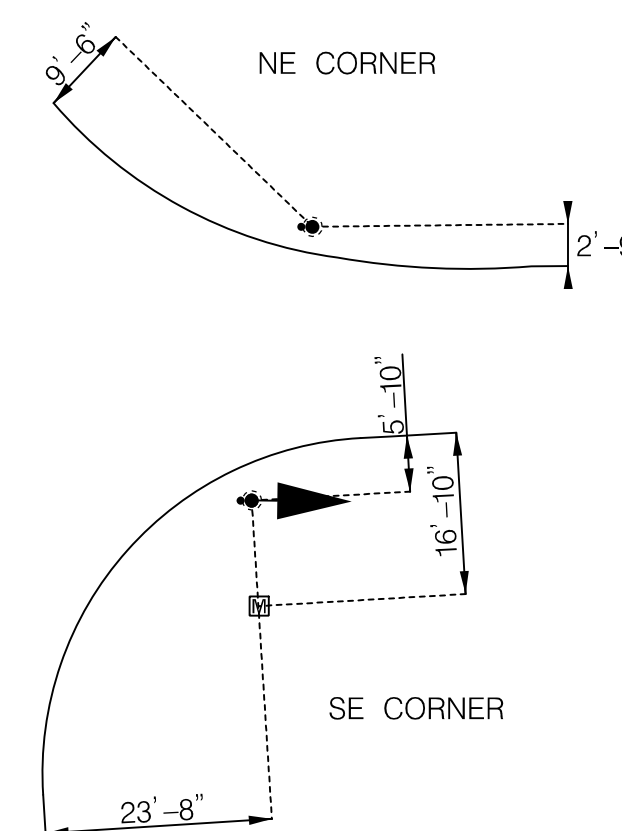
EXISTING SIGNS TO REMAIN



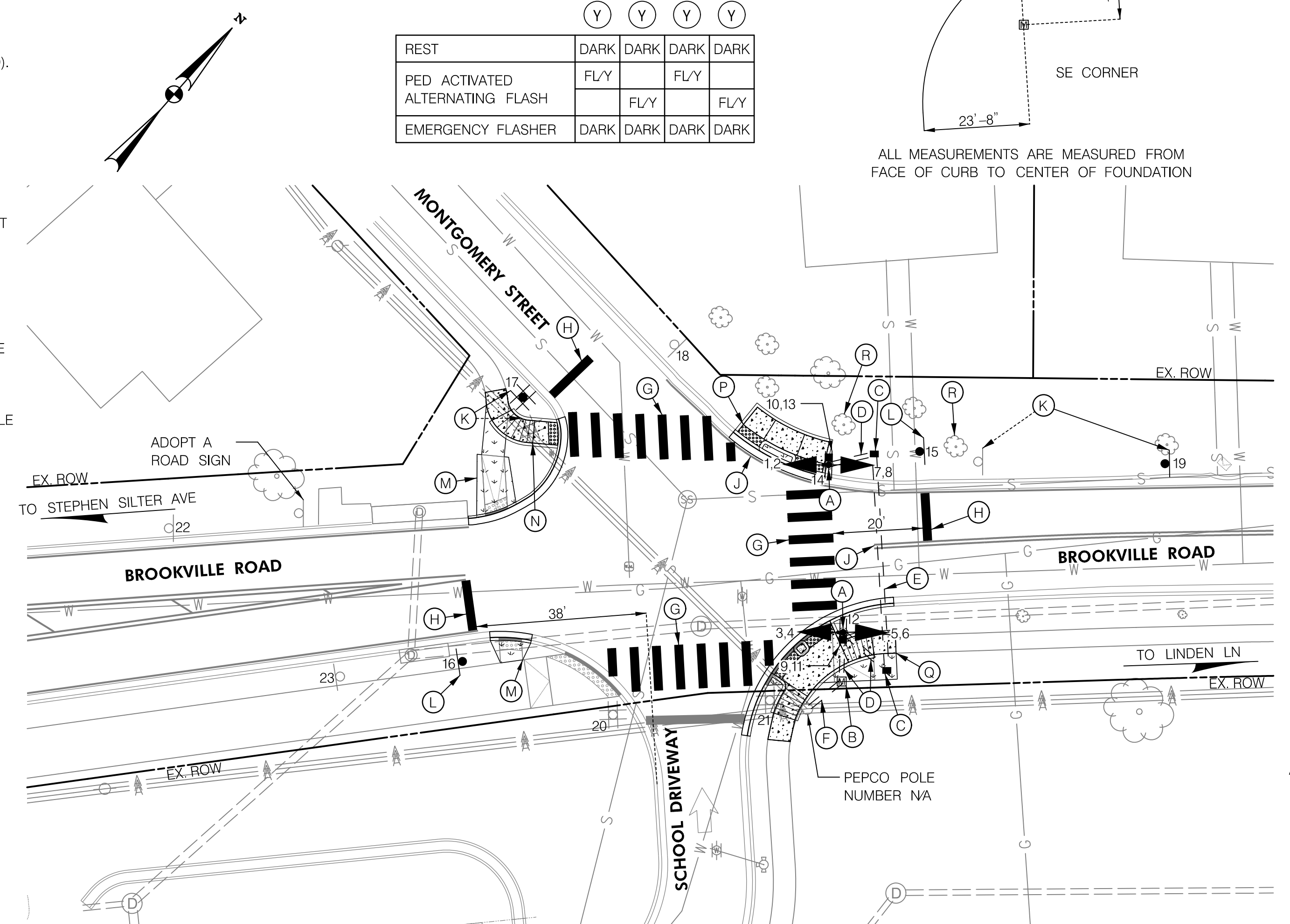
PED ACTIVATED PHASE CHART

Table with 4 columns (1, 2, 3, 4) and 4 rows (REST, PED ACTIVATED, ALTERNATING FLASH, EMERGENCY FLASHER) showing signal phases like DARK, FLY, FL/Y.

PROPOSED EQUIPMENT LOCATIONS

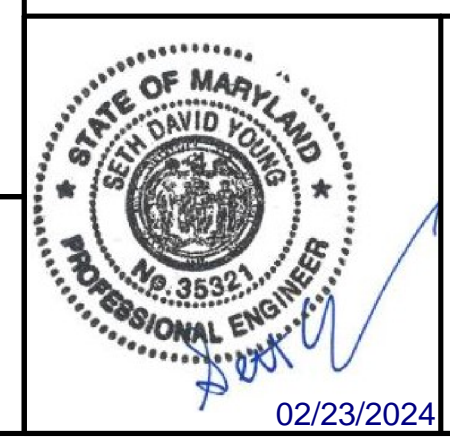
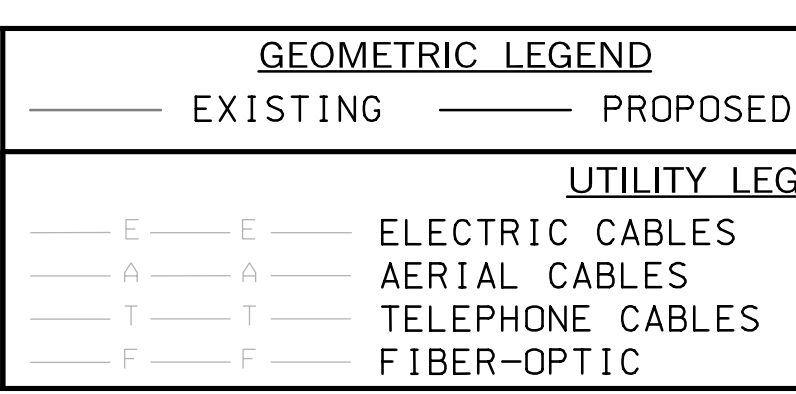
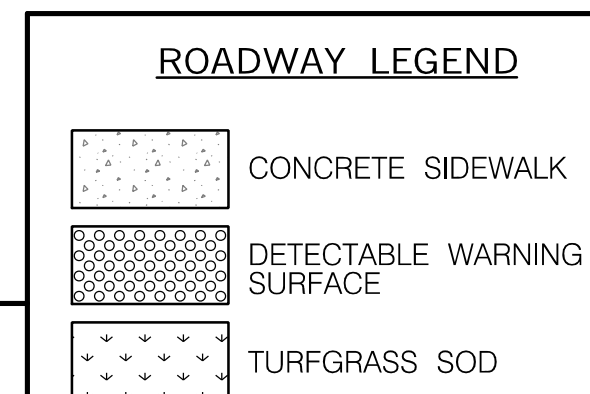
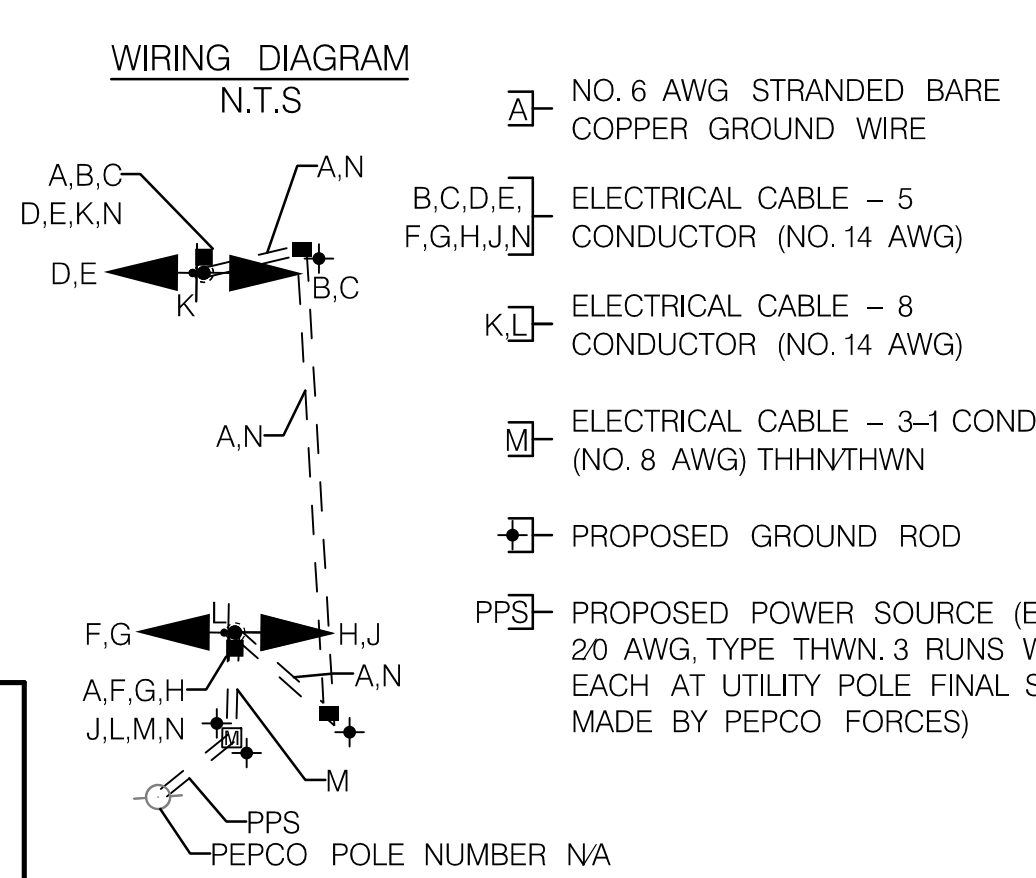
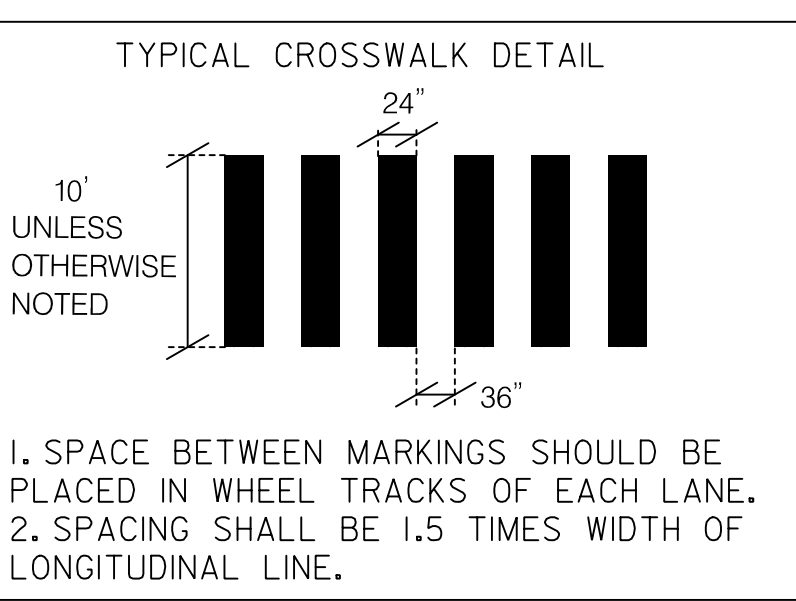
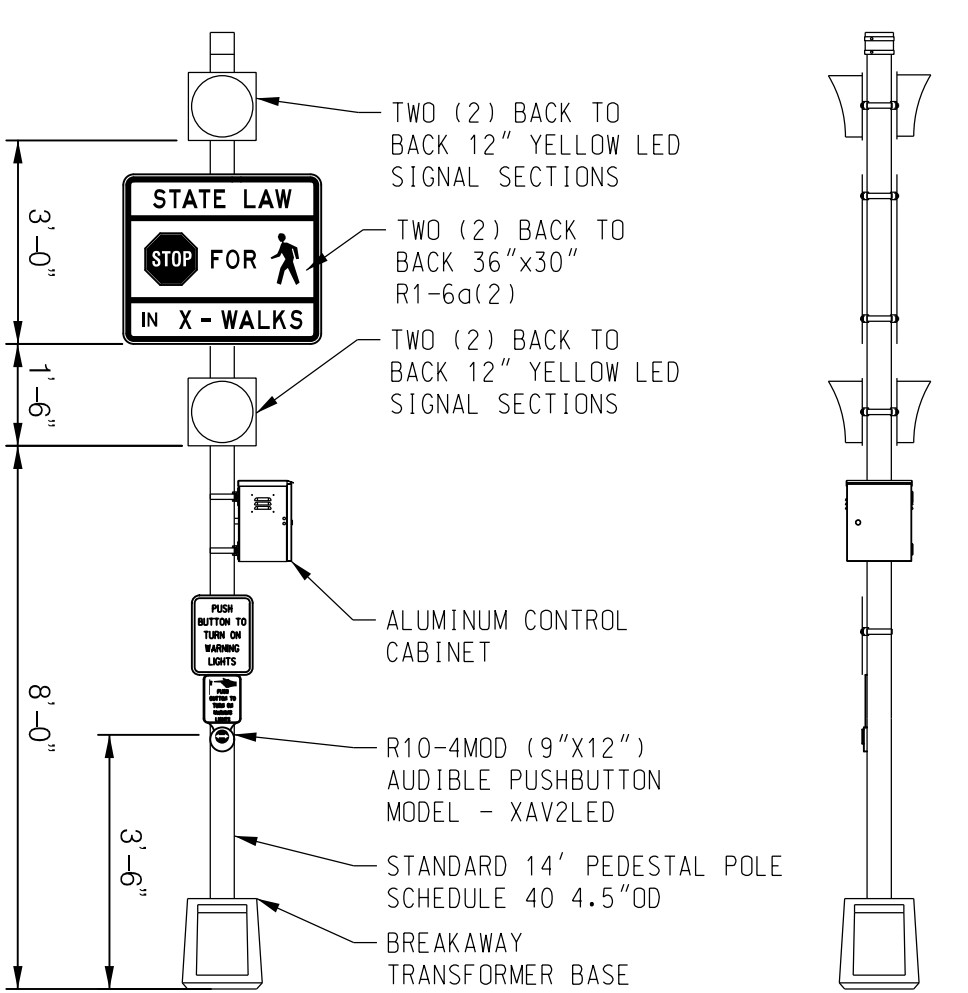
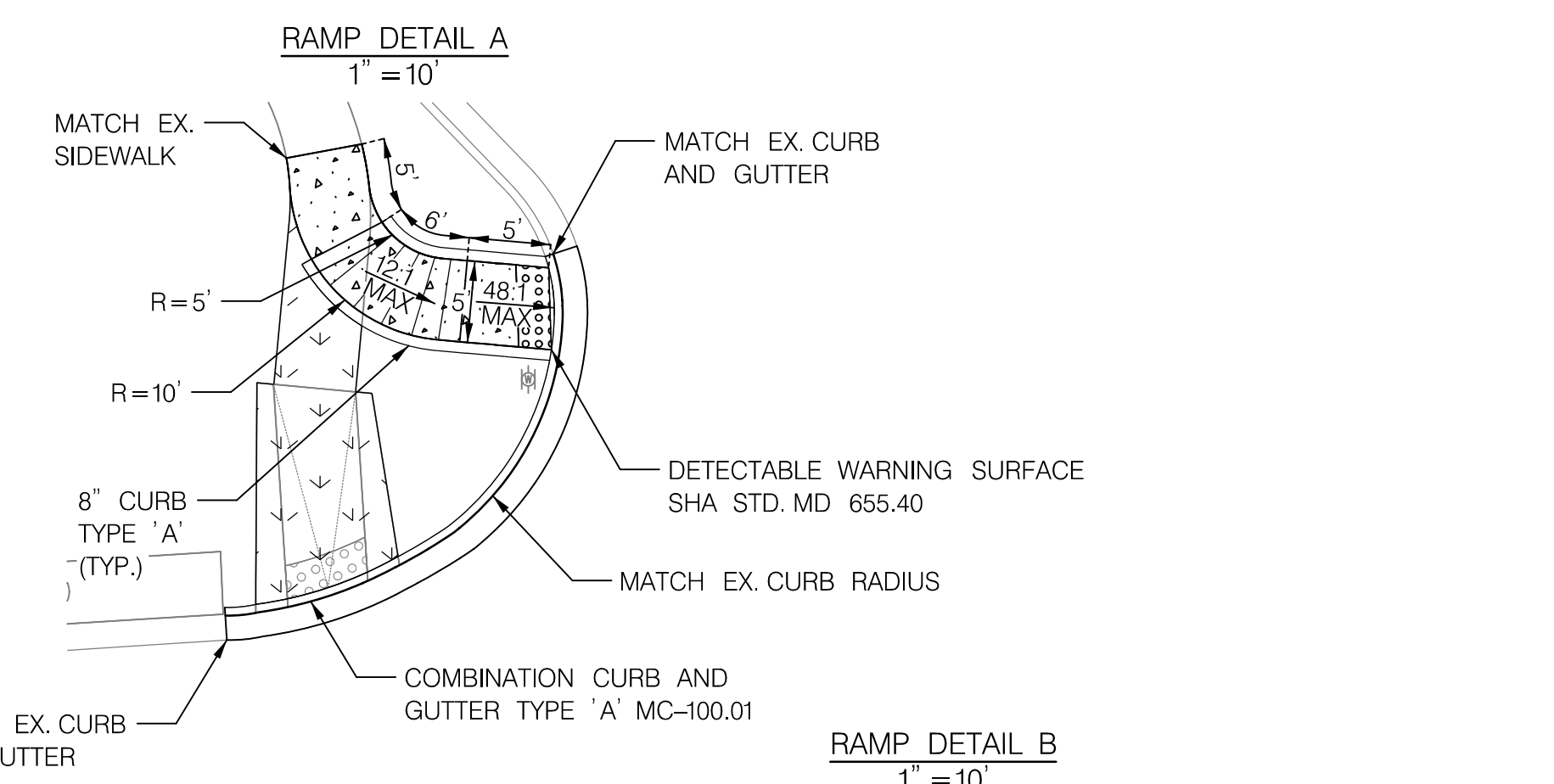


ALL MEASUREMENTS ARE MEASURED FROM FACE OF CURB TO CENTER OF FOUNDATION



EQUIPMENT LIST 'B'

Table with columns: ITEM NO., QUANTITY, DESCRIPTION. Lists various equipment items like concrete sidewalk, electrical conduit, and signs.



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 35321 EXPIRATION DATE JANUARY 6, 2026

Table with columns: NO., REVISION, BY, APP'D, DATE. Contains revision history for the drawing.

DESIGNED BY: NC DATE: FEBRUARY 2024
DRAWN BY: NC DATE: FEBRUARY 2024
CHECKED BY: MCG DATE: FEBRUARY 2024
DRAWING NO.: SG-01
Approved: Kamal Hamud 6-6-24
Reviewed: Chief, Traffic Engineering and Operations
Reviewed: Chief, Traffic Engineering Studies Section
Recommended: Engineer, Transportation Systems Engineering

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRAFFIC ENGINEERING & OPERATIONS
MONTGOMERY COUNTY, MARYLAND
PEDESTRIAN FLASHING WARNING BEACON PLAN
BROOKVILLE ROAD AT MONTGOMERY STREET
SCALE: 1"= 20'