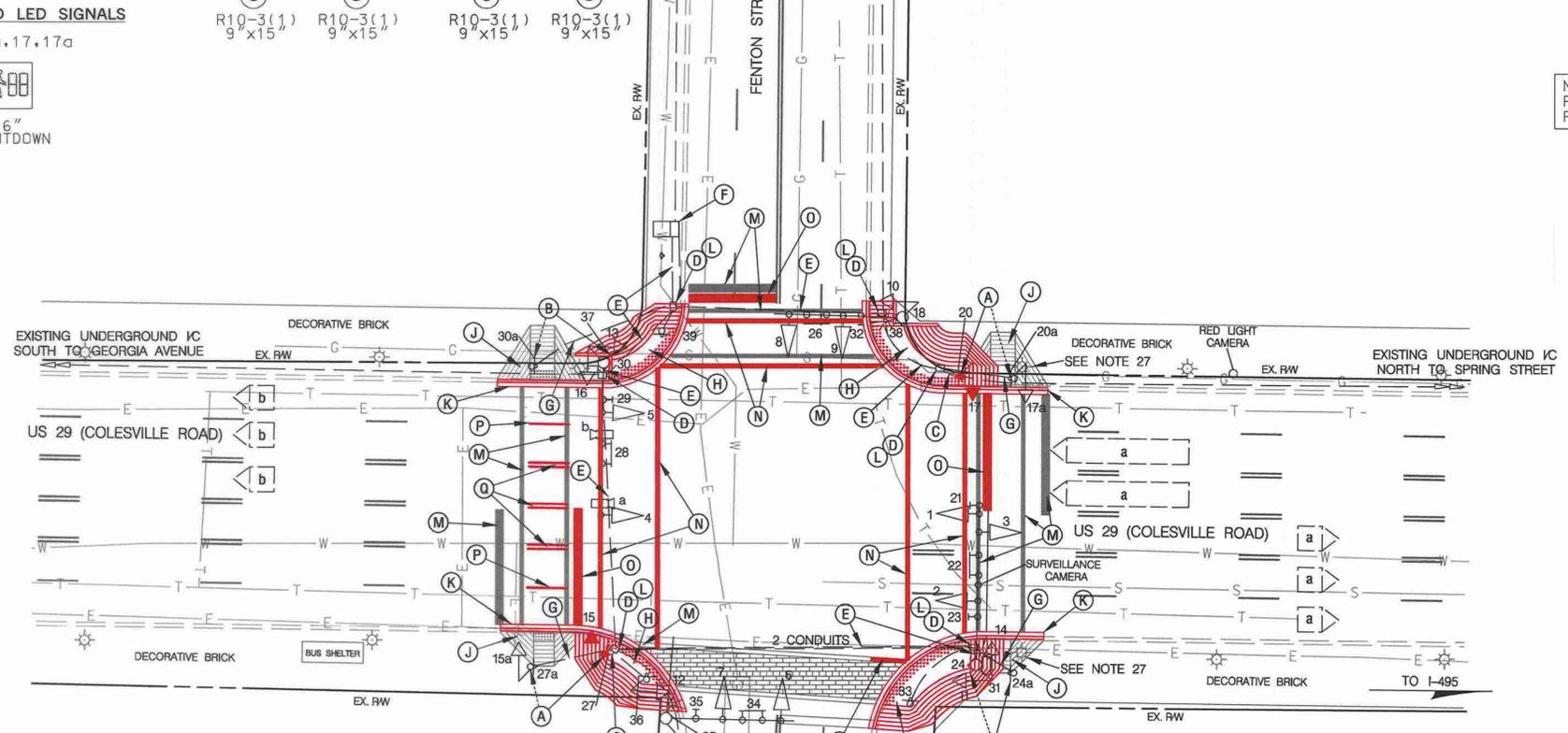
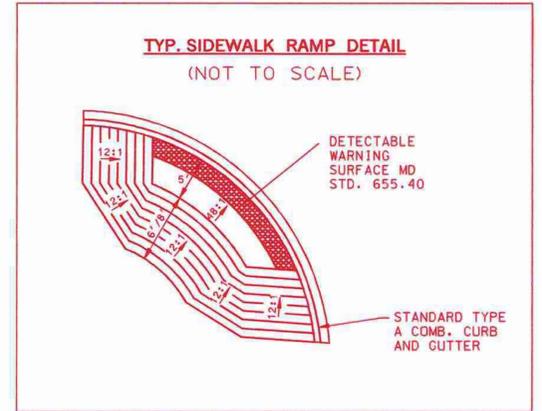


NOTE: PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

- A. REMOVE AND RELOCATE EXISTING 10 FT. BREAKAWAY PEDESTAL POLE WITH BREAKAWAY COUPLINGS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGN AND INSTALL ON A NEW FOUNDATION (SHA STD MD 801.01-01). (NOTE: 1-3 IN. PVC 90 DEGREE BEND) REMOVE EXISTING FOUNDATION 12 INCHES BELOW GRADE AND REPLACE WITH 5 INCH CONCRETE SIDEWALK.
- B. REMOVE EXISTING 5 FT. BREAKAWAY PEDESTAL POLE AND RELOCATE ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGN TO EXISTING SIGNAL POLE. REMOVE EXISTING FOUNDATION 12 INCHES BELOW GRADE AND REPLACE WITH 5 INCH CONCRETE SIDEWALK.
- C. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
- D. USE EXISTING HANDHOLE.
- E. USE EXISTING CONDUIT.
- F. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER.
- G. ABANDON EXISTING CONDUIT, CAP AT NEAREST HANDHOLE.
- H. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT NEW SIDEWALK RAMP WITH A DETECTABLE WARNING SURFACE SHA STD. MD 655.40 (SEE DETAIL THIS SHEET).
- J. REMOVE EXISTING SIDEWALK RAMP AND REPLACE WITH 5 INCH CONCRETE SIDEWALK.
- K. CONSTRUCT STANDARD TYPE A COMBINATION CURB AND GUTTER (SHA, STD. 620.02).
- L. ADJUST EXISTING HANDHOLE TO GRADE.
- M. REMOVE EXISTING PAVEMENT MARKINGS
- N. INSTALL 12 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
- O. INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
- P. INSTALL 5 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (10-30-10)
- Q. INSTALL 5 IN. HEAT APPLIED DOUBLE YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS(10-30-10)

GENERAL NOTES

1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MD SHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
3. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
4. 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.
5. THE CONTRACTOR SHALL INTEGRATE PROPOSED/EXISTING CONCRETE FOUNDATIONS WITH NEW CURB/SIDEWALK RAMP WHERE NECESSARY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
8. ALL CONTROLLER CABINET WIRING SHALL BE PERFORMED BY THE MONTGOMERY COUNTY TECHNICAL CENTER. THE CONTRACTOR SHALL CONTACT MR. KEITH LORD AT 301-279-1291 AND MR. KAMAL HAMUD AT 240-777-8761, 72 HOURS IN ADVANCE OF ALL WORK.
9. THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE LOCATION(S) PRIOR TO INSTALLATION.
10. SEE GENERAL INFORMATION SHEET FOR APS, ASSOCIATED SIGNAL HEADS AND PUSHBUTTONS, SIGNAL POLES, AND PAVEMENT MARKING LAYOUTS.
11. THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS ON NEWLY CONSTRUCTED RAMPS.
12. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MD SHA STANDARDS.
13. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.21 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
14. PUSHBUTTON SHALL BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18 IN.

GENERAL NOTES (CONTD.)

15. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60 IN. x 60 IN. LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
16. ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO MONTGOMERY COUNTY FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. KEITH LORD TO COORDINATE AT 301-279-1291.
17. THE CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE SIDEWALK AT THE NEAREST JOINT.
18. THE CONTRACTOR SHALL ENSURE THE TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL MODIFIED TRAFFIC SIGNAL IS OPERATIONAL.
19. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSWALK FOR WHICH THEY ARE INTENDED.
20. THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
21. THE CONTRACTOR IS TO REMOVE THE BRICK SIDEWALK AND REPLACE IT TO THE ORIGINAL LAYOUT.
22. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS THROUGH THE INTERSECTION DURING CONSTRUCTION WITH NECESSARY DETOURS AT THE DISCRETION OF THE PROJECT ENGINEER.
23. THE CONTRACTOR SHALL RELOCATE THE EXISTING POTTED PLANTS IN THE NE, NW AND SW CORNERS AS NECESSARY AT NO COST TO THE STATE HIGHWAY ADMINISTRATION FOR THIS WORK.
24. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS NOT TO DISTURB EXISTING CONDUIT WHEN REMOVING THE DECORATIVE BRICK SIDEWALK.
25. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
26. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID IMPACTING THE LEAD-IN CABLES FOR THE RED LIGHT CAMERA ALONG SOUTHBOUND US 29.
27. THE CONTRACTOR SHALL NOT DISTURB THE EXISTING DECORATIVE LIGHT POLE AND FOUNDATION.
28. THE CONTRACTOR SHALL TEST PIT AS NECESSARY IN THE VICINITY OF THE PROPOSED PEDESTAL POLE IN THE NORTHWEST QUADRANT TO LOCATE THE GAS LINE AND TAKE PRECAUTIONS TO AVOID IMPACTING IT.

STV Incorporated
 engineers/architects/planners/construction managers
 7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

UTILITY LEGEND

—E—E—	ELECTRIC CABLES	—SD—SD—	STORM DRAIN
—A—A—	AERIAL CABLES	—G—G—	GAS MAIN
—T—T—	TELEPHONE CABLES	—W—W—	WATER MAIN
—F—F—	FIBER-OPTIC	—S—S—	SEWER MAIN

GEOMETRIC LEGEND

---	EXISTING
---	PROPOSED

APPROVALS

TEAM LEADER	ORIGINAL ON FILE
ASST. DIR. CHIEF	
DISIGN CHIEF	
OFFICE DIRECTOR	

REVISIONS

1	REDLINE REVISION NO 1	NOVEMBER 2009
	TECH APPROVAL	SHA NO. XX444585

INSTALL APS, CPS AND ADA RAMPS ON ALL LEGS AND UPGRADE SIGNAL HEADS TO LED 120008 SHA NO. XX444585

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 US 29 (COLESVILLE ROAD) AT FENTON STREET

SIGNALIZATION PLAN SHEET

SCALE 1"=20' ADVERTISED DATE 5/13/91 CONTRACT NO. _____

DESIGNED BY LMS COUNTY MONTGOMERY
 DRAWN BY TEL LOGMILE 15002900.93
 CHECKED BY BCM TMS NO. 1730
 F.A.P. NO. TOD NO. _____

TS NO. 188A DRAWING SG-01 OF 02 SHEET NO. 1 OF 2