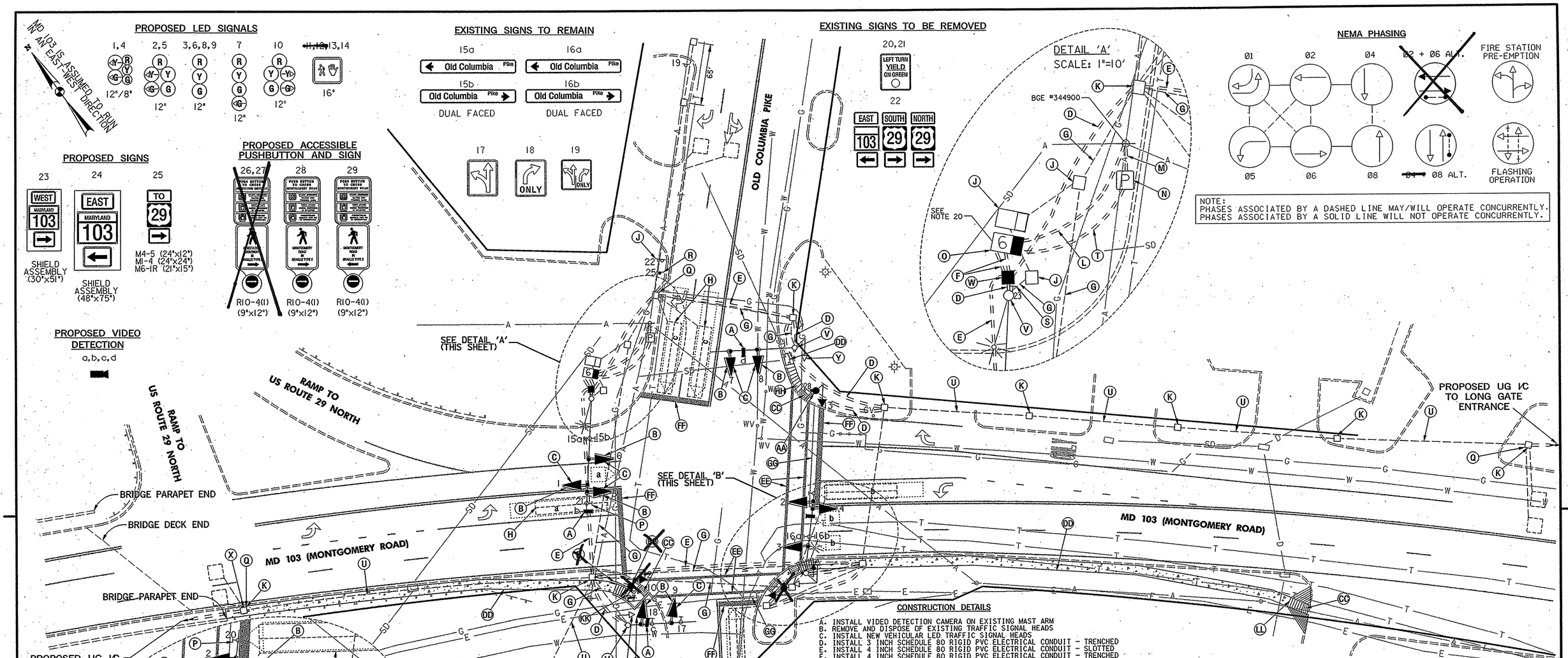

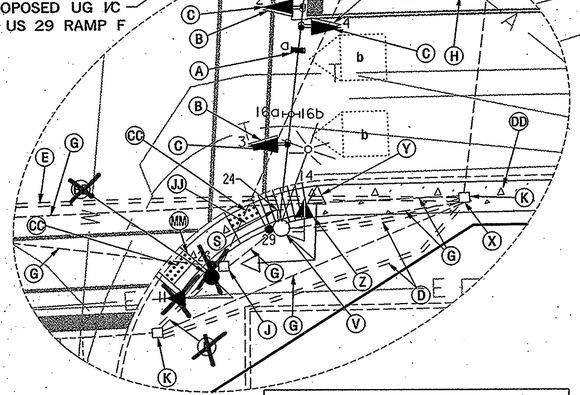

GENERAL NOTES

1. THE CONTRACTOR SHALL DISPOSE OF ALL TRAFFIC SIGNAL HEADS THAT ARE TO BE REPLACED AS SHOWN ON THIS PLAN
2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MDSHA STANDARD PLATES FOR TRAFFIC CONTROL.
3. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
4. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
5. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED WIRING.
7. THE CONTRACTOR SHALL COMPLETE THE INDIVIDUAL TRAFFIC SIGNAL MODIFICATIONS ALONG MD 103 PRIOR TO INSTALLATION OF INTERCONNECT CABLE.
8. SEE GENERAL INFORMATION SHEET FOR CONTROLLER, PEDESTAL POLE AND APS ASSOCIATED SIGNAL HEADS, CROSSWALK, STOPLINE, AND VIDEO DETECTION CAMERA LAYOUT.
9. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
10. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO LOCATE ANY EXISTING CONDUIT RUNS WHERE NEW SLOTTED CONDUIT IS PROPOSED IMMEDIATELY ADJACENT.
11. REWIRE EXISTING TRAFFIC SIGNAL EQUIPMENT PER WIRING DIAGRAM.
12. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MDSHA STANDARDS.
13. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
14. ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER TO COORDINATE AT 410-787-7652.
15. THE CONTRACTOR SHALL CENTER THE PROPOSED CROSSWALKS ON NEWLY CONSTRUCTED RAMPS.
16. THE CONTRACTOR SHALL INSTALL SIDEWALK WITH A DEPTH OF 5 INCHES. THE 4 INCH CONCRETE SIDEWALK ITEM WAS INCREASED BY A FACTOR OF 1.25 TO ACCOUNT FOR THE ADDED DEPTH.
17. ALL TRAFFIC SIGNAL MODIFICATIONS SHALL BE CONSTRUCTED PRIOR TO SIDEWALK INSTALLATION.
18. PLACE THE 24 INCH DETECTABLE WARNING SURFACE ALONG THE FULLY DEPRESSED PORTION OF THE PROPOSED RAMP. THE MAT SHALL NOT EXTEND ONTO THE SIDE FLARES.
19. THE CONTRACTOR SHALL COORDINATE WITH THE 2ND DISTRICT FIRE STATION WHEN INSTALLING NEW WIRING IN THE FIRE STATION (410-313-2602).
20. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID THE EXISING CONDUIT RUN UNDER THE PROPOSED CABINET.

CONSTRUCTION DETAILS

A. INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM
B. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL HEADS
C. INSTALL NEW VEHICULAR LED TRAFFIC SIGNAL HEADS
D. INSTALL 3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
E. INSTALL 4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED
F. INSTALL 4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
G. ABANDON EXISTING CONDUIT; CAP AT NEAREST HANDHOLES
H. ABANDON EXISTING LOOP DETECTOR
J. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT. NOTIFY THE SHA SIGNAL SHOP TO SALVAGE THE CABINET AND CONTROLLER EQUIPMENT.
K. USE EXISTING HANDHOLE
L. INSTALL 2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT AT UTILITY POLE FOR USE BY OTHERS
M. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED FOR UNDERGROUND POWER SERVICE (TO BE INSTALLED BY BALTIMORE GAS & ELECTRIC). THE CONTRACTOR SHALL CAP, MARK, AND LEAVE A 1 FOOT STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
N. INSTALL METERED SERVICE PEDESTAL (NOTE: 2-4 IN. 90 DEGREE BENDS)
O. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND MASTER CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 1-2 IN. AND 3-4 IN. 90 DEGREE BENDS)
P. REMOVE OVERHEAD SIGN
Q. SPLICE EXISTING LOOP DETECTOR WIRES TO NEW 2 CONDUCTOR (ALUMINUM SHIELDED) WIRES
R. INSTALL GROUND MOUNTED SIGN (NO. 25) ON ONE 4 IN. X 6 IN. WOOD POST
S. INSTALL OVERHEAD SIGN
T. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED FOR UNDERGROUND POWER SERVICE
U. USE EXISTING CONDUIT
V. INSTALL 1-3 IN. PVC 90 DEGREE BEND IN EXISTING SIGNAL POLE FOUNDATION; CAP EXISTING 2 INCH BEND WHEN TRAFFIC SIGNAL MODIFICATION IS FUNCTIONAL.
W. INSTALL ELECTRICAL HANDHOLE
X. ADJUST EXISTING HANDHOLE TO GRADE
Y. REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL HEAD(S) AND PUSH BUTTON.
Z. INSTALL NEW LED PEDESTRIAN SIGNAL HEAD ON EXISTING MAST ARM POLE, ACCESSIBLE/TACTILE PEDESTRIAN PUSBUTTON AND R10-4(1) SIGN TO READ "PUSHBUTTON TO CROSS MONTGOMERY ROAD"
AA. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH LED PEDESTRIAN SIGNAL HEAD, ACCESSIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND R10-4(1) SIGN TO READ "PUSH BUTTON TO CROSS MONTGOMERY ROAD". (NOTE: 1-3 IN. PVC 90 DEGREE BEND).
BB. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH LED PEDESTRIAN SIGNAL HEAD, ACCESSIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND R10-4(1) SIGN TO READ "PUSHBUTTON TO CROSS FIRESTATION DRIVEWAY". (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
CC. INSTALL DETECTABLE WARNING SURFACE (SURFACE APPLIED) ON PROPOSED RAMP.
DD. INSTALL 5 IN. CONCRETE SIDEWALK (4 FT. WIDE).
EE. INSTALL 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
FF. INSTALL 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
GG. REMOVE EXISTING PERMANENT PAVEMENT MARKINGS.
HH. CONSTRUCT SHA STD. 655.12 HANDICAP RAMP (4 FT. X 4 FT. LANDING/8 FT. SIDE FLARE). CONSTRUCT STANDARD ONLY PORTION OF SIDEWALK RAMP SHOWN. CONSTRUCT STANDARD TYPE A CURB ONLY (SHA STD. 620.02) IN LIEU OF OTHER FLARE.
JJ. CONSTRUCT SHA STD. 655.12 HANDICAP RAMP (4 FT. X 4 FT. LANDING/7 FT. SIDE FLARE). CONSTRUCT ONLY PORTION OF SIDEWALK RAMP SHOWN. CONSTRUCT SIDEWALK AS SPECIFIED ON THIS PLAN IN LIEU OF OTHER FLARE.
KK. CONSTRUCT SHA STD. 655.12 HANDICAP RAMP (4 FT. X 6 FT. LANDING/6 FT. SIDE FLARE). CONSTRUCT ONLY PORTION OF SIDEWALK RAMP SHOWN. CONSTRUCT STANDARD TYPE A CURB ONLY (SHA. STD. 620.02) IN LIEU OF OTHER FLARE.
LL. CONSTRUCT SHA STD. 655.11 HANDICAP RAMP (4 FT. X 4 FT. LANDING/8 FT. SIDE FLARE).
MM. CONSTRUCT SHA STD. 655.12 HANDICAP RAMP (4 FT. 4 FT. LANDING). CONSTRUCT STANDARD TYPE A CURB (SHA. STD. 620.02) IN LIEU OF FLARE. CONSTRUCT SIDEWALK AS SPECIFIED ON THIS PLAN IN LIEU OF OTHER FLARE.

UTILITY LEGEND

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

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

BY: DRIBANCN

TOD NO.: AT720-11
SHA No.:HO365A52/B52

1. REDLINE REVISION NO. 1 PEDESTRIAN INDICATIONS AND BUTTONS REMOVED ACCESS FIREHOUSE ENTRANCE. 05/2007

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

MD 103 (MONTGOMERY ROAD)
AND OLD COLUMBIA PIKE / 2ND DISTRICT FIRE STATION

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS			
F	ADD VIDEO DETECTION/APS/ PROVIDE SYNCHRONIZATION/ UPGRADE SIGNAL HEADS TO LED SHA#AT720585		08/2006
STV	SBS		
E	4/15/97 BW370082 REVISION DUE TO ADDITION OF FIRE STATION ACCESS		
D	4/96 REPLACED FAILED DETECTION		

TRAFFIC SIGNALIZATION PLAN

SCALE 1"=20' DATE 12/2280 CONTRACT NO. HO-426X-775

DESIGNED BY ____ COUNTY HOWARD
DRAWN BY W. MONK LOGMILE 13010307.24
CHECKED BY ____ T.I.M.S. NO. G823
F.A.P. NO. ____ TOD NO. ____

DRAWING NO. TS-177F OF SHEET NO. 3 OF 8

PLOTTED: WEDNESDAY, JULY 19, 2006 AT 01:50 PM
FILE: H:\PROJECTS\0312513\0312513.0001\DRAWINGS\TRA\OLD COL PIKE\PSG-P000.MD103.DGN