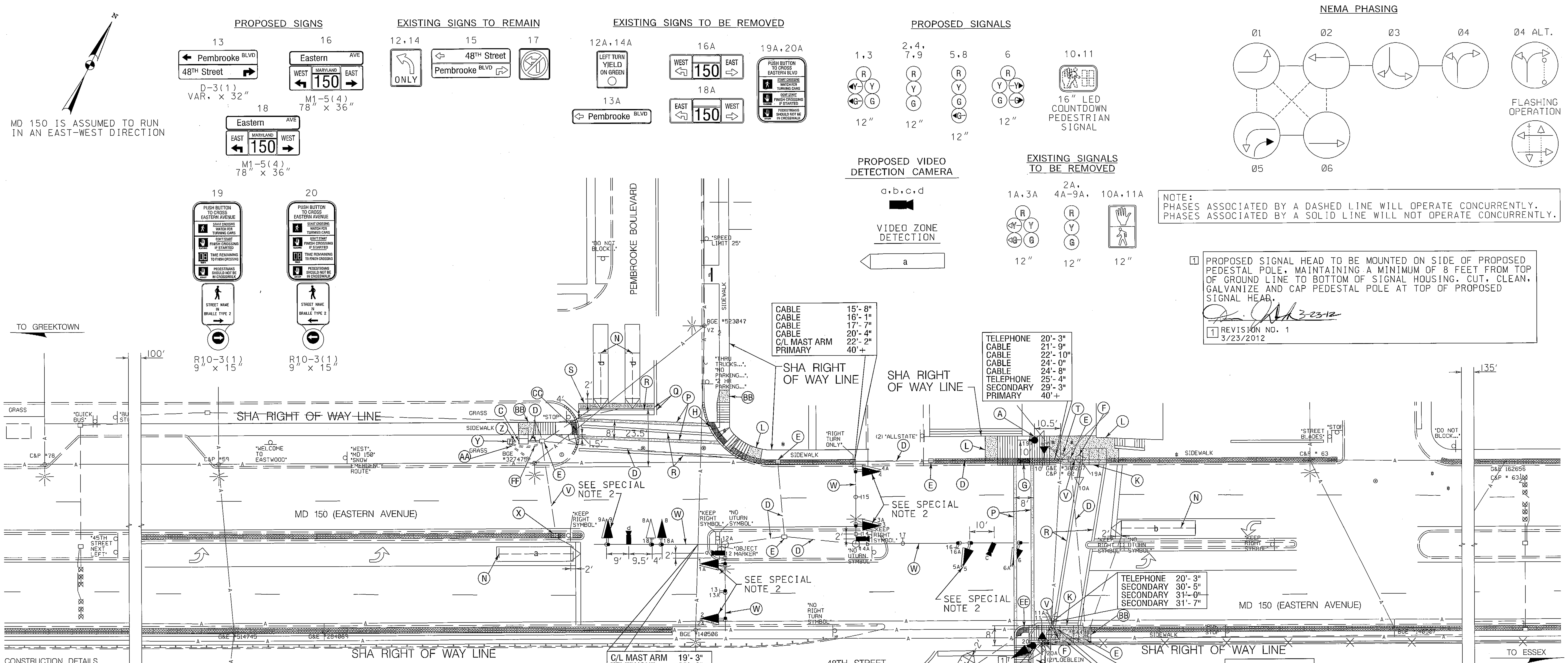

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

[1] PROPOSED SIGNAL HEAD TO BE MOUNTED ON SIDE OF PROPOSED PEDESTAL POLE, MAINTAINING A MINIMUM OF 8 FEET FROM TOP OF GROUND LINE TO BOTTOM OF SIGNAL HOUSING. CUT, CLEAN, GALVANIZE AND CAP PEDESTAL POLE AT TOP OF PROPOSED SIGNAL HEAD.

3-23-12

[1] REVISION NO. 1
3/23/2012

CONSTRUCTION DETAILS

A. 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 EASTERN AVENUE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).
B. INSTALL CONCRETE FOUNDATION WITH 14 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE AND TRAFFIC SIGNAL HEAD, COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS EASTERN AVENUE"). (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN PEDESTAL BASE).
C. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT). INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND IN EXISTING FOUNDATION. REMOVE EXISTING CONTROL AND DISTRIBUTION EQUIPMENT ONCE METERED SERVICE PEDESTAL IS ACTIVATED.
D. USE EXISTING CONDUIT.
E. USE EXISTING HANDHOLE.
F. REMOVE EXISTING PEDESTRIAN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
G. REMOVE EXISTING SIDEWALK AND BRICK BAND. INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.12) AND DETECTABLE WARNING SURFACE CLAY BRICK PAVERS IN ACCORDANCE WITH STANDARD NO. MD 655.40.
H. REMOVE EXISTING SIDEWALK RAMP AND BRICK BAND. INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.12) AND DETECTABLE WARNING SURFACE CLAY BRICK PAVERS IN ACCORDANCE WITH STANDARD NO. MD 655.40.
K. REMOVE EXISTING SIDEWALK RAMP AND INSTALL STANDARD TYPE A COMBINATION CURB AND GUTTER PAN.
L. REMOVE EXISTING SIDEWALK AND BRICK BAND. INSTALL 5 IN. CONCRETE SIDEWALK.
M. INSTALL 5 IN. CONCRETE SIDEWALK.
N. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, AND CONTROLLER.
P. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
Q. REMOVE EXISTING PAVEMENT MARKINGS BEYOND STOPLINE.
R. REMOVE EXISTING PAVEMENT MARKINGS.
S. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
T. INSTALL ONE (1) 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
U. INSTALL COMBINATION CONCRETE CURB AND GUTTER (STANDARD NO. MD 620.02 TYPE 'A').
V. CAP AND ABANDON EXISTING CONDUIT.
W. USE EXISTING MAST ARM AND REMOVE EXISTING SIGNAL HEADS AND SIGNS AND INSTALL NEW L.E.D. SIGNAL HEADS AND SIGNS AS NOTED. (NOTE: SOME EXISTING SIGNS ARE TO REMAIN)
X. REMOVE EXISTING HANDHOLE AND RESET DECORATIVE BRICKS REMOVED ELSEWHERE IN PROJECT.
Y. INSTALL EMBEDDED METERED SERVICE PEDESTAL WITH 2-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE (SEE SPECIAL NOTE 3).
Z. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CONDUIT SHALL TIE INTO PROPOSED CONDUIT BEND IN CABINET BASE.
AA. INSTALL 4 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE FOR USE BY BGE FORCES.
BB. REMOVE EXISTING SIDEWALK AND INSTALL 5 IN. CONCRETE SIDEWALK.
CC. REMOVE EXISTING SIDEWALK RAMP AND INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.11) AND DETECTABLE WARNING SURFACE CLAY BRICK PAVERS IN ACCORDANCE WITH STANDARD NO. MD 655.40.
DD. REMOVE EXISITNG CONCRETE SIDEWALK AND INSTALL CONCRETE CURB (STANDARD NO. MD 620.02) AND GRASS.
EE. REMOVE EXISTING SIDEWALK AND INSTALL SIDEWALK RAMP (STANDARD NO. MD 655.12) AND DETECTABLE WARNING SURFACE CLAY BRICK PAVERS IN ACCORDANCE WITH STANDARD NO. MD 655.40.
FF. INSTALL 2 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. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
4. THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT.
5. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
6. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
8. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
9. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
10. REFER TO TSP-2 DRAWING FOR DIMENSIONS OF RAMPS AND SIDEWALKS WITHIN INTERSECTION.
11. 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%.
12. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
13. 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.

SPECIAL NOTES:

1. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.
2. DISCONNECT EXISTING ELECTRICAL CABLE FROM EXISTING SIGNAL HEADS TO BE REMOVED AND RE-CONNECT TO PROPOSED SIGNAL HEADS. ANY SIGNAL OUTAGE SHALL BE SCHEDULED DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL COORDINATE WITH SHA TRAFFIC OPERATION DIVISION TO CONTACT LOCAL POWER COMPANY TO SET-UP WORK WITH TO DISCONNECT THE EXISTING ELECTRICAL SERVICE AND HAVE THE NEW SERVICE ENERGIZED.

GEOMETRIC LEGEND
EXISTING
PROPOSED

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

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

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

REVISIONS
(C) UPGRADE SIGNAL TO VIDEO DETECTION AND APS/CPS; TIMS K257 CONTRACT SHA NO. XX6455185 06/01/2011
LFW NML W.M. D.J.D. R.B. M.L.P. W.G. T.H.
B REPLACE DETECTION IN CONJUCTION WITH RESURFACING 12/1997
BRK TH
A ADDED EB./WB. E.P. 07/1997
LSC DCI

PLOTTED: March 23, 2012
FILE: N:\31669-111\CADD\pSG-P001_K257.dgn

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

MD 150 (EASTERN AVENUE) AT PEMBROOKE BLVD/48TH STREET
EASTWOOD, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE JUNE 1, 2011 CONTRACT NO.

DESIGNED BY	T.ZAYDEL	COUNTY	BALTIMORE
DRAWN BY	S.BLOSS	LOGMILE	03015000.16
CHECKED BY	T.HANNAN	TIMS NO.	K257
F.A.P. NO.		TOD NO.	

TS NO. 3619-C | DRAWING TSP-1 OF 3 | SHEET NO. 1 OF 3

BY: lwaesche