U.S. 1 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNS TO BE REMOVED

18A

17,20

M95-1 W/G (78"x24")

22,25

M95-1 W/G (78"x24")

PROPOSED SIGNS

13,14,15,16

D-3(2) (VAR.X16") DUAL-FACED

21,26

R3-5(L) (30"x36")

27

R3-5(R) (30"x36")

18

SHIELD ASSEMBLY (24"x51") W/G

19

SHIELD ASSEMBLY (36"x75") W/G

23

SHIELD ASSEMBLY (24"x51") W/G

24

SHIELD ASSEMBLY (36"x75") W/G

PROPOSED VIDEO DETECTION CAMERA

a,b,c,d,e,f,g

PROPOSED OPTICOM DETECTOR EYE

h

PROPOSED SIGNALS

1,4 — 12"/8"LED

2,5 — 12"LED

3,6,9,12 — 12"LED

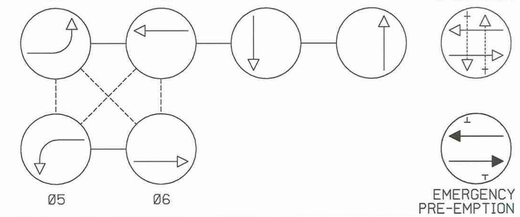
7,10 — 12"/8"LED

8,11 — 12"LED

VIDEO ZONE DETECTION

a

NEMA PHASING



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

CONSTRUCTION DETAILS

A. REMOVE EXISTING U.S. 1 SIGNS AND SUPPORTS.
B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 50 FT.(CUT TO 45 FT.)/ 70 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, OPTICOM DETECTOR EYE, UPDATED VIDEO DETECTION CAMERAS MOUNTED ON MAST ARMS AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
C. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 50 FT./70 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, UPDATED VIDEO DETECTION CAMERAS MOUNTED ON MAST ARMS AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
D. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
E. ABANDON EXISTING MICROLOOP PROBE. DISCONNECT AND REMOVE MICROLOOP PROBES CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
F. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
H. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
J. INSTALL EMBEDDED METERED SERVICE PEDESTAL WITH 2-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE.
K. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.

TELEPHONE	20'-10"
FIBER	22'- 5"
SPAN	23'- 7"
NEUTRAL	26'- 8"
SECONDARY	29'-2'
PRIMARY	39'- 7"

CABLE	22'- 9"
SECONDARY	30'- 0"
PRIMARY	36'- 4"

TETHER	17'- 9"
TELEPHONE	24'- 9"
SPAN	25'- 9"
NEUTRAL	33'- 7"
SECONDARY	35'- 3"
PRIMARY	OVER 40'

TELEPHONE	19'- 5"
GUY	20'-11"
TELEPHONE	24'- 3"
CABLE	25'- 7"
GUY	30'- 7"
SECONDARY	33'- 3"
PRIMARY	OVER 40'

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 VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED, EXCEPT EXISTING VIDEO CAMERA, SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
6. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
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 NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
10. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
11. REFER TO SHEET 2 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.

CONSTRUCTION DETAILS

L. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT FOR PROPOSED UNDERGROUND TELEPHONE SERVICE IN COMMON TRENCH. CAP AND MARK CONDUITS 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
M. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. PROPOSED CONDUIT SHALL TIE INTO PROPOSED 2 IN. BEND IN CABINET FOUNDATION.
N. INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. PROPOSED CONDUIT SHALL TIE INTO EXISTING 2 IN. BEND IN CABINET FOUNDATION.
O. USE EXISTING BASE MOUNTED CONTROLLER AND CABINET. INSTALL MODEL 764 DISCRIMINATOR MODULE AND 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN EXISTING FOUNDATION.
P. USE EXISTING HANDHOLE.
Q. USE EXISTING HANDHOLE. REMOVE EXISTING COLLAR AND FRAME AND INSTALL NEW COLLAR AND FRAME.
R. USE EXISTING CONDUIT.
S. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
T. REMOVE EXISTING STRAIN POLE AND CONTROL AND DISTRIBUTION EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
U. REMOVE EXISTING STRAIN POLE AND VIDEO DETECTION CAMERA. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. RETURN VIDEO CAMERA TO TECHNICIAN AT TIME OF TURN-ON.
V. REMOVE EXISTING STRAIN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
W. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
X. REMOVE EXISTING HANDHOLE.
Y. REMOVE EXISTING SIDEWALK AND INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. REPLACE 5 INCH CONCRETE SIDEWALK.
Z. CAP AND ABANDON EXISTING CONDUIT.
AA. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
BB. USE EXISTING HANDHOLE. DISCONNECT AND PULL BACK EXISTING INTERCONNECT CABLE HEADING NORTH AND RE-FEED IN NEW CONDUIT TO EXISTING BASE MOUNTED CABINET. REMOVE EXISTING COLLAR AND FRAME AND INSTALL NEW COLLAR AND FRAME.
[1] CC. ~~REMOVE EXISTING PAVEMENT MARKING ARROW/LETTERS.~~
DD. REMOVE EXISTING LOOP WIRE FROM UTILITY POLES.
EE. REMOVE EXISTING AND INSTALL 5 INCH CONCRETE SIDEWALK.

[1] GREENLINE REVISION NO. 1 AUGUST 26, 2009 — 8-27-09

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

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

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

U.S. 1 (Business) and Tollgate Road
Bel Air, MD

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

REVISIONS	
G	REBUILD TRAFFIC SIGNAL SHA. NO. XX4465185 6/29/2009
SRB/NML	
F	INSTALL VIDEO DETECTION FOR S.B. U.S .1 OT2007 1/2007
E	REBUILD W.B. TOLLGATE ROAD PASSAGE DETECTION SHA. NO. BW986M82 5/17/2006
JPT	

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' ADVERTISED DATE 9301971 CONTRACT NO. H-596X-475

DESIGNED BY B.L.J. COUNTY Harford
DRAWN BY B.L.J. LOGMILE 12800101.75
CHECKED BY B.L.J. TIMS NO. J429
F.A.P. NO. TOD NO.

TS NO. 427 H | DRAWING TSP-1 OF 2 | SHEET NO. 1 OF 2

PLOTTED: 08-26-2009
FILE: n:\31556-175\CADD\Greenline No. 1\GL1_pSG-P001_UST.dgn

BY: jmoony