N

MD 97 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED LED SIGNALS

1,2,5,6,7 — R, Y, G — 12"

3,4 — R, Y, G — 12"

8,9 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

PROPOSED VIDEO DETECTION

a,b

PROPOSED SIGNS

12,12a — August DR 2100 >

15,15a — < August DR 2109

D-3(1) (VAR.x16") DUAL FACED

13,16,18 — S1-1 (36"x36") W16-7p(L) (24"x12") F.Y.G.

17 — NORTH MARYLAND 97 — M1-5(6) (24"x48")

19 — SOUTH MARYLAND 97 — M1-5(6) (36"x72")

20 — Georgia AVE — D-3(1) (VAR.X16")

PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN

10 — PUSH BUTTON TO CROSS GEORGIA AVENUE — STREET NAME IN BRAILLE TYPE 2 — R10-3(1) 9" x 15"

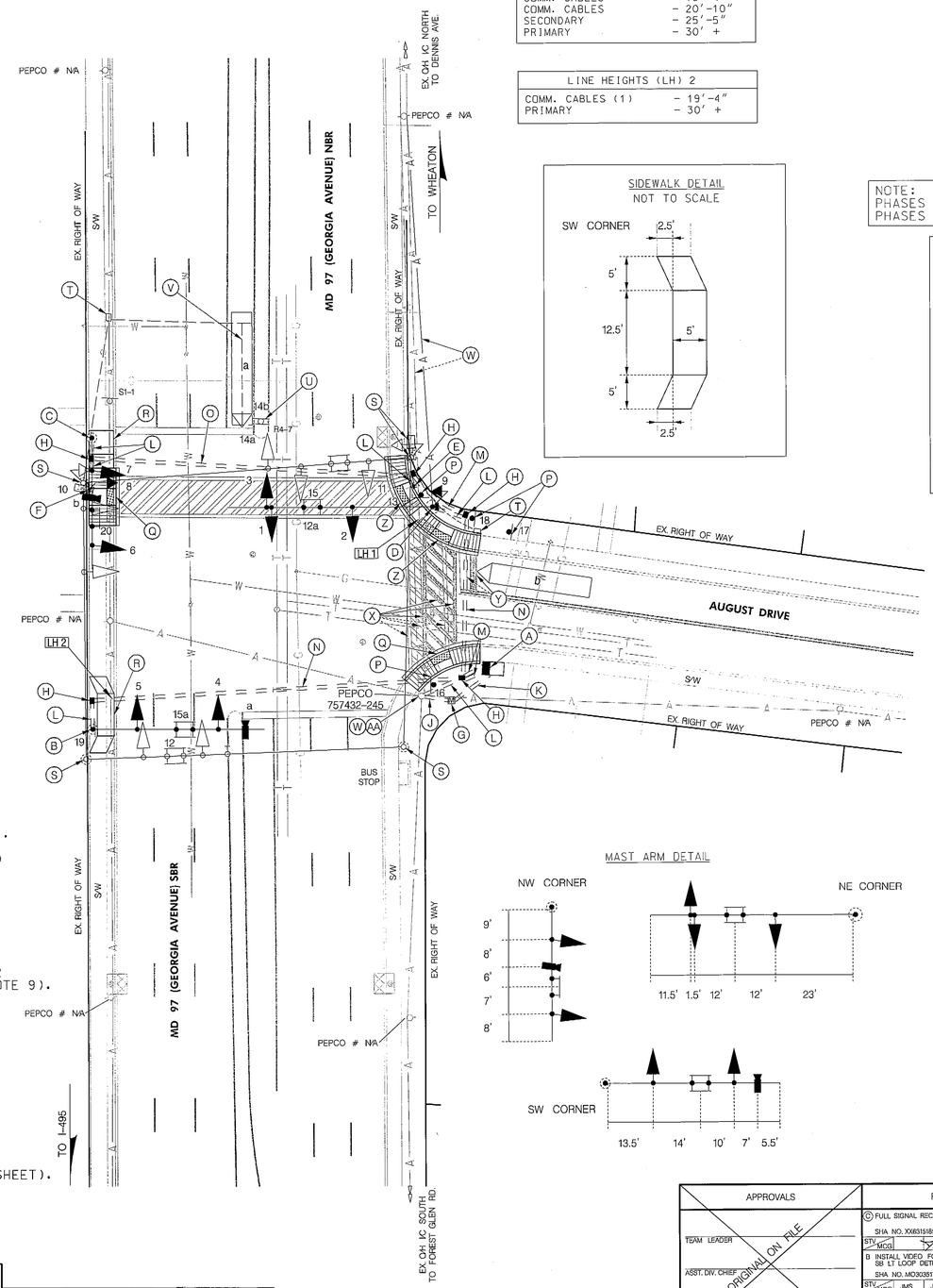
11 — PUSH BUTTON TO CROSS GEORGIA AVENUE — STREET NAME IN BRAILLE TYPE 2 — R10-3(1) 9" x 15"

EXISTING SIGNS TO BE REMOVED

14a,14b

CONSTRUCTION DETAILS

A. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. 90 DEGREE BENDS).
B. INSTALL A 16.5 FT. STEEL POLE WITH A 50 FT. MAST ARM, 15 FT. "T" DIMENSION, FOUNDATION, LED TRAFFIC SIGNAL HEADS, SIGNS AND VIDEO DETECTION CAMERA (NOTE: 1-3 IN. 90 DEGREE PVC BEND).
C. INSTALL A 16.5 FT. STEEL POLE WITH A 38 FT. MAST ARM, 15 FT. "T" DIMENSION, FOUNDATION, LED TRAFFIC SIGNAL HEADS, SIGNS AND VIDEO DETECTION CAMERA (NOTE: 1-3 IN. 90 DEGREE PVC BEND).
D. INSTALL A 16.5 FT. STEEL POLE WITH A 60 FT. MAST ARM, 15 FT. "T" DIMENSION, FOUNDATION, LED TRAFFIC SIGNAL HEADS, SIGN, LED COUNTDOWN PEDESTRIAN SIGNAL, 3 IN. WEATHER HEAD AND INTERCONNECT SPLICE CABINET (NOTE: 1-3 IN. 90 DEGREE PVC BEND).
E. INSTALL A 5 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION PER MD STD. 801.01-01, BREAKWAY COUPLINGS, ACCESSIBLE PUSHBUTTON (ARROW LEFT) AND R10-3(1) SIGN "PUSH BUTTON TO CROSS GEORGIA AVENUE" (NOTE: 1-3 IN. 90 DEGREE PVC BEND).
F. INSTALL A 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION PER MD STD. 801.01-01, BREAKWAY COUPLINGS, LED COUNTDOWN PEDESTRIAN SIGNAL, ACCESSIBLE PUSHBUTTON (ARROW RIGHT) AND R10-3(1) SIGN "PUSH BUTTON TO CROSS GEORGIA AVENUE" (NOTE: 1-3 IN. 90 DEGREE PVC BEND).
G. INSTALL METERED SERVICE PEDESTAL (NOTE: 1-4 IN. AND 3-2 IN. 90 DEGREE PVC BENDS).
H. INSTALL ELECTRICAL HANDHOLE.
J. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED UNDERGROUND POWER SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
K. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
L. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
M. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
N. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
O. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED).
P. INSTALL GROUND MOUNTED SIGN ON ONE 4 IN. X 6 IN. WOOD POST.
Q. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT NEW SIDEWALK RAMP PER MD STD. 655.12 WITH DETECTABLE WARNING SURFACE PER MD STD. 655.40 AND 8 IN. BACKER CURB (SEE NOTE 9).
R. REMOVE EXISTING SIDEWALK AND CONSTRUCT NEW 5 IN. CONCRETE SIDEWALK. SEE DETAIL THIS SHEET FOR SW CORNER SIDEWALK CONSTRUCTION.
S. REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. CAP AND ABANDON EXISTING CONDUIT.
T. REMOVE EXISTING HANDHOLE AND BACKFILL. CAP AND ABANDON EXISTING CONDUIT.
U. REMOVE EXISTING GROUND MOUNTED SIGNS FROM POST. RELOCATE EXISTING R4-7 SIGN TO TOP OF POST.
V. ABANDON EXISTING LOOP DETECTOR.
W. PULL BACK AND RE-ROUTE EXISTING INTERCONNECT CABLE (NOTE: SEE WIRING DIAGRAM ON GI SHEET FOR DETAILS).
X. REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
Y. REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
Z. REMOVE EXISTING SIDEWALK RAMP AND CONSTRUCT NEW SIDEWALK RAMP (SEE DETAIL THIS SHEET).
AA. INSTALL 3 INCH ELECTRICAL CONDUIT-PVC RISER ON EXISTING UTILITY POLE.



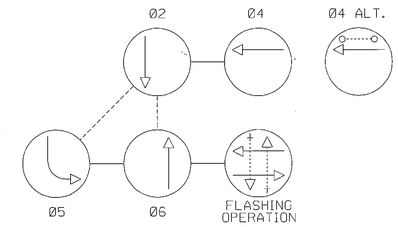
LINE HEIGHTS (LH) 1	
COMM. CABLES	- 18'-4"
COMM. CABLES	- 20'-10"
SECONDARY	- 25'-5"
PRIMARY	- 30' +

LINE HEIGHTS (LH) 2	
COMM. CABLES (1)	- 19'-4"
PRIMARY	- 30' +

SIDEWALK DETAIL
NOT TO SCALE

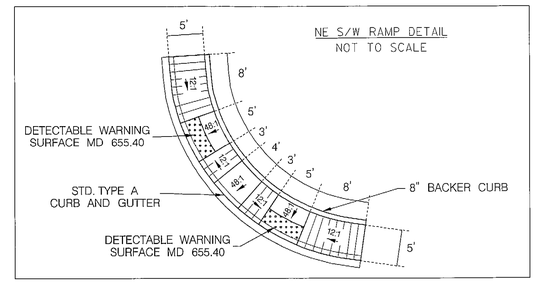
MAST ARM DETAIL

NEMA PHASING



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

NE S/W RAMP DETAIL
NOT TO SCALE



GENERAL NOTES

1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MOSHA 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. 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.
4. THE CONTRACTOR SHALL INTEGRATE PROPOSED CONCRETE FOUNDATIONS WITH NEW SIDEWALK RAMP WHERE NECESSARY.
5. THE MONTGOMERY COUNTY SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
7. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL RECONSTRUCTION.
8. THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE AND CABINET LOCATION(S) PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL CENTER THE NEWLY CONSTRUCTED RAMP WITH THE EXISTING/PROPOSED CROSSWALKS.
10. 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 THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
11. PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18 IN.
12. 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%.
13. THE 10 FT. MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
14. PUSHBUTTON ARROWS SHOULD BE TURNED PARALLEL TO THE CROSSWALK FOR WHICH THEY ARE INTENDED.
15. ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE MONT. CO. SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. BOB RICKETTS AT 301-279-1975 TO COORDINATE.
16. ALL TRAFFIC SIGNAL MODIFICATIONS SHALL BE CONSTRUCTED PRIOR TO SIDEWALK INSTALLATION.
17. THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL RECONSTRUCTED TRAFFIC SIGNAL IS OPERATIONAL.
18. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MOSHA STANDARDS.

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

MD 97 (GEORGIA AVENUE) AT AUGUST DRIVE

WHEATON, MARYLAND

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE _____ CONTRACT NO. _____

DESIGNED BY _____ COUNTY MONTGOMERY
DRAWN BY DERRICK DICKERSON LOGMILE 15009702.02
CHECKED BY G.S.D. TIMS NO. _____
F.A.P. NO. _____ TOD NO. _____

TS NO. 3290C | DRAWING SG- 01 OF 02 | SHEET NO. 01 OF 02

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

REVISIONS
© FULL SIGNAL RECONSTRUCTION 2-1-2011
SHA NO. XX6515185 TIMS# K534
STV MCG | DB | DD | DAZ | TH 4/4
B INSTALL VIDEO FOR EAST LEG. REPLACE SB LT LOOP DETECTOR 3-2006
SHA NO. MO3035177 TIMS# H326
STV MCG | JMS | JAG | MAR | WH | TH 4/4
A INSTALL SB EP LT AND PED SIGNS 1-1993
DB | DD | DAZ | | | TH 3/6

PLOTTED: Wednesday, February 09, 2011 AT 05:59 PM
FILE: I:\PROJECTS\4014255\4014255_0097\Drawings\TRA\pSG-P000_md97.dgn

STV
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BY: youngsd

UTILITY LEGEND

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

GEOMETRIC LEGEND

EXISTING
PROPOSED