

US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS TO BE REMOVED



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S1-1 FYG 36"x36"

PROPOSED SIGNS



R10-6 24"x36"



R10-3(1) (9' x 15') OPTION A SIGN



S1-1 (MOD) FYG 42"x36"



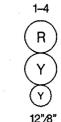
R10-11A (MOD) 24"x36"



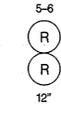
S1-1 FYG 36"x36"

S4-3 FYG 24"x8"

PROPOSED L.E.D. SIGNALS



12'8"

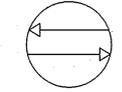


12"

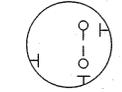


16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD

NEMA PHASING



NORMAL OPERATION



PEDESTRIAN ACTUATION OPERATION

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
2. 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 CLEARANCE 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.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT BEING REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE WORK.
7. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60" X 60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
8. 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.
9. 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 12 IN.
10. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.

CONSTRUCTION DETAILS

- A. INSTALL 21 FT. MAST ARM POLE WITH 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- B. INSTALL 15 FT. BREAKAWAY PEDESTAL POLE, AND SIGNAL HEAD (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- C. REMOVE EXISTING SIGNS AND INSTALL SIGNAL HEAD, SIGN, PEDESTRIAN SIGNAL, PUSHBUTTON, SIGN AND AUXILIARY CABINET. SHA SIGNAL SHOP TO INSTALL PUSHBUTTON AND SIGNAL INDICATION FOR POINT CONTROL PERSON ON EXISTING PEDESTAL POLE
- D. REMOVE EXISTING BREAKAWAY PEDESTAL POLE, PUSHBUTTON AND SIGN. CAP AND ABANDON EXISTING CONDUIT
- E. USE EXISTING HANDHOLE
- F. USE EXISTING CONDUIT
- G. INSTALL 3 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED
- H. INSTALL 4 FT. SIDEWALK FOR PEDESTRIAN ACCESS
- J. REMOVE EXISTING SIGNALIZATION CABLE
- K. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- L. CUT, CLEAN, GALVANIZE AND CAP MAST ARM (APPROX. 64 FT. LENGTH. CONTRACTOR TO CONFIRM PRIOR TO CUTTING)
- M. INSTALL S1-1 AND S4-3 SIGNS ON TWO 4 IN. X 4 IN. WOOD SUPPORTS APPROXIMATELY 200 FT. IN ADVANCE OF THE INTERSECTION
- N. INSTALL NEMA SIZE 5 BASE MOUNTED CABINET AND CONTROLLER WITH CONTROL AND DISTRIBUTION EQUIPMENT (NOTE: INSTALL 2-2IN. AND 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- O. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED
- P. RECONSTRUCT EXISTING SIDEWALK RAMP TO BE ADA COMPLIANT AND INSTALL DETECTABLE WARNING SURFACE
- Q. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
- R. INSTALL R10-6 SIGN ON ONE 4 IN. X 4 IN. WOOD SUPPORT
- S. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED

UTILITY HEIGHTS

- 1 SECONDARY = 31' - 6"
- 2 CATV = 17' - 11"
INTERCONNECT = 19' - 2"
TELEPHONE = 20' - 10"
SECONDARY = 24' - 6"
PRIMARY = 32' - 0"
- 3 SECONDARY = 22' - 6"

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

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APPROVALS

TEAM LEADER	<i>[Signature]</i> 6-4-07
ASST. DIV. CHIEF	<i>[Signature]</i> 6-4-07
DIVISION ENGINEER	<i>[Signature]</i> 6/4/07
OFFICE DIRECTOR	<i>[Signature]</i> 6/4

REVISIONS

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

TRAFFIC SIGNAL PLAN
 US 1 AND WILLOW AVE.
 (OVERLEA, MD.)

SCALE 1"=20' DATE 6-1-07 CONTRACT NO. AT9125185

DESIGNED BY	T. ZAYDEL	COUNTY	BALTIMORE
DRAWN BY	T. ZAYDEL	LOGMILE	03US0001015.89
CHECKED BY	K. SCHMID	T.I.M.S. NO.	I-339
F.A.P. NO.	NA	TOD NO.	

DRAWING NO. TS-4583 SHEET NO. 1 OF 2