

CONSTRUCTION DETAILS MD 458 AT BROOKS DRIVE

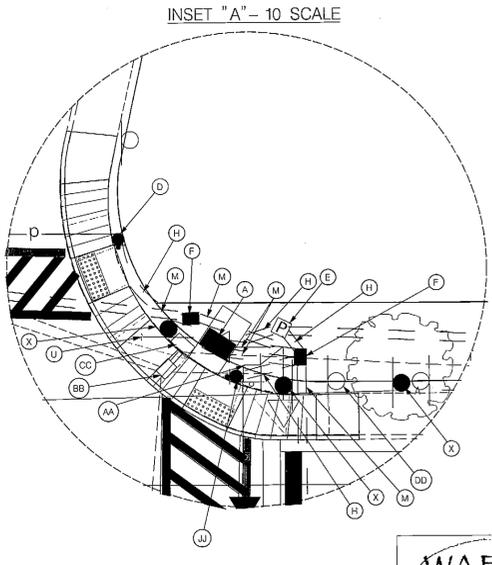
- A. INSTALL NEMA SIZE "S" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2" AND 2-4" SCHEDULE 80 90° PVC BENDS)
- B. INSTALL 27 FOOT STEEL POLE WITH 36 FOOT MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, AUDIBLE PUSHBUTTON STATION, SIGNS, 15' LIGHTING ARM AND LED LUMINAIRE (NOTE: 1-3" AND 1-2" SCHEDULE 80 90° PVC BEND.)
- C. INSTALL 27 FOOT STEEL POLE WITH 70 FOOT MAST ARM CUT TO 65 FEET, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, 15' LIGHTING ARM AND LED LUMINAIRE (NOTE: 1-3" AND 1-2" SCHEDULE 80 90° PVC BEND.)
- D. INSTALL 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS PER MD 801.01-01, PEDESTRIAN SIGNAL HEAD, AND AUDIBLE PUSHBUTTON STATION (NOTE: USE MODIFIED FOUNDATION PER MD 801.01 WITH 1-2" SCHEDULE 80 90° PVC BEND.)
- E. INSTALL EMBEDDED METERED SERVICE PEDESTAL (100 AMP), (NOTE: 1-4" AND 2-2" SCHEDULE 80 90° PVC BENDS)
- F. INSTALL ELECTRICAL HANDHOLE.
- G. INSTALL ELECTRICAL HANDHOLE PERPENDICULAR TO ROADWAY FOR NON INVASIVE DETECTOR INSTALLATION.
- H. INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- J. INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- K. INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED.
- L. INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
- M. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- N. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
- O. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED.
- P. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT TRENCHED TO BASE OF UTILITY POLE #822370-8188 FOR POWER SERVICE, STUB OUT 1' AND INSTALL PULL STRING. SEE WIRING DIAGRAM ON DRAWING SG-16 FOR ADDITIONAL NOTE.
- R. INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT TRENCHED UNDER SIDEWALK TO BASE OF UTILITY POLE #822370-8380, STUB OUT 1' AND INSTALL PULL STRING, CONDUIT RISER AND WEATHER HEAD, FOR INTERCONNECT CONNECTION.
- S. INSTALL NON INVASIVE DETECTOR WITH 500 FOOT LEAD IN CABLE, CENTERED IN THROUGH LANE.
- T. INSTALL NON INVASIVE DETECTOR WITH 1000 FOOT LEAD IN CABLE, CENTERED IN THROUGH LANE.
- U. SEE DRAWING SG-16 FOR PEDESTRIAN FACILITIES.
- V. INSTALL CROSSWALK WITH 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL AS SHOWN.
- W. INSTALL STOP LINE WITH 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL AS SHOWN.
- X. INSTALL GROUND MOUNTED SIGN ON 4" X 6" WOOD POST.
- Y. PULL BACK EXISTING INTERCONNECT CABLES TO UTILITY POLE #822370-8380 AND RE-ROUTE TO NEW CABINET USING NEW CONDUIT AND HANDHOLES.
- Z. REMOVE EXISTING SIGNAL POLE, ALL ATTACHED EQUIPMENT, WIRES, SIGNS AND FOUNDATION 12" BELOW GRADE, BACKFILL, CAP AND ABANDON CONDUIT.
- AA. REMOVE EXISTING PEDESTAL POLE. ALL ATTACHED EQUIPMENT, SIGNS AND FOUNDATION 12" BELOW GRADE, BACKFILL, CAP AND ABANDON CONDUIT.
- BB. REMOVE ELECTRICAL HANDHOLE, BACKFILL WITH SUITABLE MATERIAL, CAP AND ABANDON CONDUITS.
- CC. REMOVE CONTROLLER CABINET, EQUIPMENT, POWER FEED AND FOUNDATION 12" BELOW GRADE, BACKFILL, CAP AND ABANDON CONDUITS.
- DD. REMOVE GROUND MOUNTED SIGN AND SUPPORT.
- EE. ABANDON EXISTING TRAFFIC DETECTORS.
- FF. TEST PIT REQUIRED FOR BORE.
- GG. SEE ROADWAY PLAN FOR MEDIAN RECONSTRUCTION.
- HH. FOUNDATION SHALL BE FLUSH WITH SIDEWALK, FLANGE PLATE SHALL BE ALIGNED PARALLEL TO THE BACK OF SIDEWALK TO ENSURE 90" CLEAR SIDEWALK.
- JJ. AFTER REMOVAL OF EXISTING PEDESTAL POLE, INSTALL 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS PER MD 801.01-01, PEDESTRIAN SIGNAL HEAD, AND AUDIBLE PUSHBUTTON STATION (NOTE: USE MODIFIED FOUNDATION PER MD 801.01 WITH 1-2" SCHEDULE 80 90° PVC BEND.)

GEOMETRIC LEGEND

--- EXISTING
--- PROPOSED

UTILITY LEGEND

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



- GENERAL NOTES**
- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
 - THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING PAVEMENT MARKINGS BEFORE GRINDING. FINAL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE ROADWAY PLANS; OTHER THAN THOSE DETAILED ON THE PLAN, AND ALL PAVEMENT MARKING CONFLICTS SHALL BE RESOLVED BY THE SHA ENGINEER. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
 - SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
 - ALL NEW LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINAL AND PROPERLY LABELING EACH CABLE.
 - THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING THE PROPOSED SIGNAL EQUIPMENT. IF UTILITY CONFLICTS ARISE, THE CONTRACTOR SHALL CONTACT THE SHA ENGINEER.
 - ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, AND THE 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 INSTALLATION OF ALL SIGNAL EQUIPMENT.
 - PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
 - PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 INCHES FROM A FIVE FOOT X FIVE FOOT LEVEL LANDING AREA WITH A CROSS SLOPE NO GREATER THAN 2%.
 - LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTON 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 AND APPROVED BY THE DIRECTOR OF THE OFFICE OF TRAFFIC AND SAFETY.
 - THE 10' MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 458 (SILVER HILL ROAD)
AT BROOKS DRIVE
SUTTLAND, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' ADVERTISED DATE 6-8-72 CONTRACT NO. P232-001-385

DESIGNED BY S.RENZI COUNTY PRINCE GEORGE'S
DRAWN BY S.RENZI LOGMILE 16045801.73
CHECKED BY TIMS NO.
F.A.P. NO. US-9892-(1) TMD NO.

TS NO. 597-C DRAWING SG-14 OF 23 SHEET NO. OF

WAE Williams Associates-Engineers, P.A.
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Phone: 410-725-1004
Facsimile: 410-725-1008

APPROVALS

TEAM LEADER
ASST. DIR. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS

1. RECONSTRUCTION VIDEO DETECTION, MAINLINE PASSAGE DETECTION APS/CS, ADA RAMP
01-2013 SHA NO. P37885/17
WAE 1/17/13
2. RELOCATE SIGNAL POLE
S.H.A. NO. PG2178170
101998
MAR DAZ BRK TH
A. CHANGE EXCLUSIVE LEFT TO EP
0188 SHA NO. OT-3-88
CA STP TH

PLOTTED: Friday, January 18, 2013 AT 09:14 AM
FILE: \\Server02\wae\res\01_Prop01\001_TEDD-BA\01_Task Work\01_0102_Analysis\CADD\p301_MD458_BrooksDr.dgn