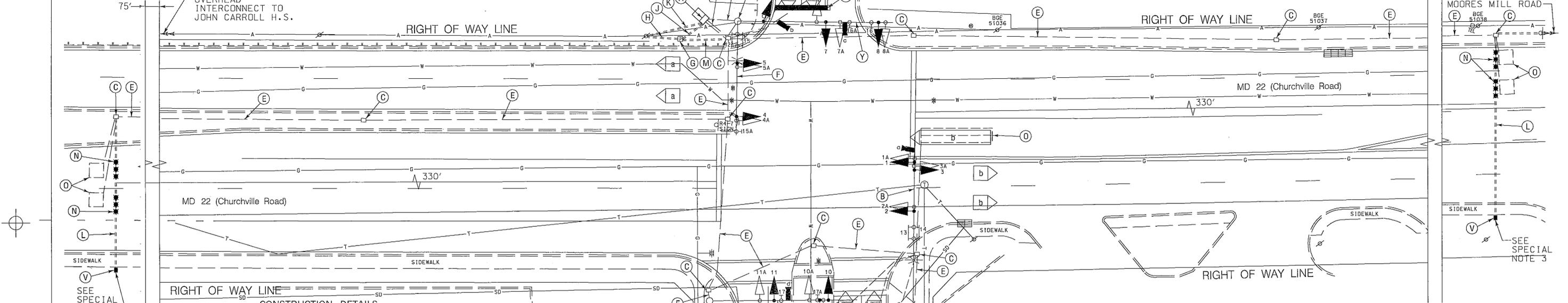


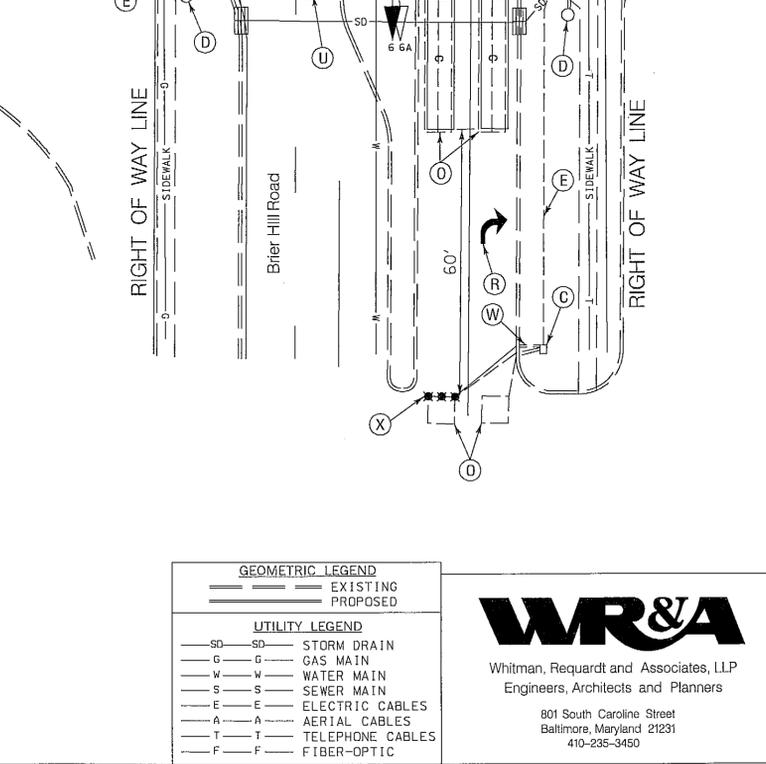
MD 22 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

SPECIAL NOTES:

- 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.
- 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.
- INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.



- CONSTRUCTION DETAILS**
- USE EXISTING BASE MOUNTED CABINET AND CONTROLLER AND CONNECT EXISTING 12-PAIR COMMUNICATION CABLE. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT).
 - REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW SIGNAL L.E.D. HEADS AND VIDEO DETECTION TERRA CAMERA MOUNTED ON MAST ARM AS SHOWN.
 - USE EXISTING HANDHOLE.
 - USE EXISTING STEEL POLE.
 - USE EXISTING CONDUIT.
 - REMOVE EXISTING SIGNAL HEADS AND SIGN AND INSTALL NEW L.E.D. SIGNAL HEADS ON MAST ARM AS SHOWN.
 - INSTALL EMBEDDED METERED SERVICE PEDESTAL WITH 2-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BENDS IN PEDESTAL BASE.
 - INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
 - INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CONDUIT SHALL TIE INTO EXISTING SPARE 3 IN. CONDUIT BEND IN CABINET FOUNDATION.
 - INSTALL 2 IN. SCHEDULE 80, PVC ELECTRICAL CONDUIT - TRENCHED FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS. CONDUIT SHALL TIE INTO EXISTING 2 IN. CONDUIT BEND IN CABINET FOUNDATION.
 - INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
 - INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
 - ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
 - INSTALL 5 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR 50 FT. ALONG THE CHURCH EXIT.
 - INSTALL 5 IN. HEAT APPLIED, YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR 50 FT. ALONG THE CHURCH EXIT.
 - INSTALL WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW.
 - REMOVE EXISTING AND INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
 - CAP AND ABANDON EXISTING CONDUIT.
 - REMOVE EXISTING SIGNAL HEADS AND SIGN AND INSTALL NEW L.E.D. SIGNAL HEADS AND VIDEO DETECTION TERRA CAMERA MOUNTED ON MAST ARM AS SHOWN AND RELOCATE EXISTING SIGN.
 - INSTALL HANDHOLE.
 - INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE)
 - INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN (TO BE PLACED IN THRU LANE ONLY).
 - REMOVE EXISTING SIGNAL HEADS AND SIGN AND INSTALL NEW SIGNAL L.E.D. HEADS AND VIDEO DETECTION TERRA CAMERA(S) MOUNTED ON MAST ARM AS SHOWN.



- GENERAL NOTES**
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
 - VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
 - 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.
 - ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
 - REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
 - REFER TO SHEET TSP-6 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 22 (Churchville Road) and Brier Hill Road
Churchville, MD

TRAFFIC SIGNALIZATION PLAN	
SCALE 1" = 20'	ADVERTISED DATE 3/27/1986 CONTRACT NO. H-782-501-485
DESIGNED BY Dave Andrews	COUNTY HARFORD
DRAWN BY Dave Andrews	LOGMILE 12002201.23
CHECKED BY Steve Renzi	TMS NO. G780
F.A.P. NO. SEE TITLE SHEET	TOD NO.
TS NO. 2165 E	DRAWING TSP-2 OF 12 SHEET NO. 2 OF 12

APPROVALS	REVISIONS
TEAM LEADER	E UPGRADE SIGNAL HEADS TO LED AND CONNECTED INTERCONNECT 3/16/2009 SHA. NO. XX6315185 TMS NO. G780
ASST. DIR. CHIEF	SRB NML 1/2/11
DIVISION CHIEF	D REVISION NO. 2
OFFICE DIRECTOR	WM DJD DAZ ETP DA

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Baltimore, Maryland 21231
410-235-3450

BY: sbloss

TOD NO. X631-01
SHA NO. H-664-01/051
MD 22 @ JOHN CARROLL HS to MD 543

PLOTTED: 03-23-2009
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