MD 150 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

PROPOSED VIDEO DETECTION CAMERA

PROPOSED OPTICOM DETECTOR EYE

EXISTING SIGN TO BE RELOCATED

PROPOSED SIGNS

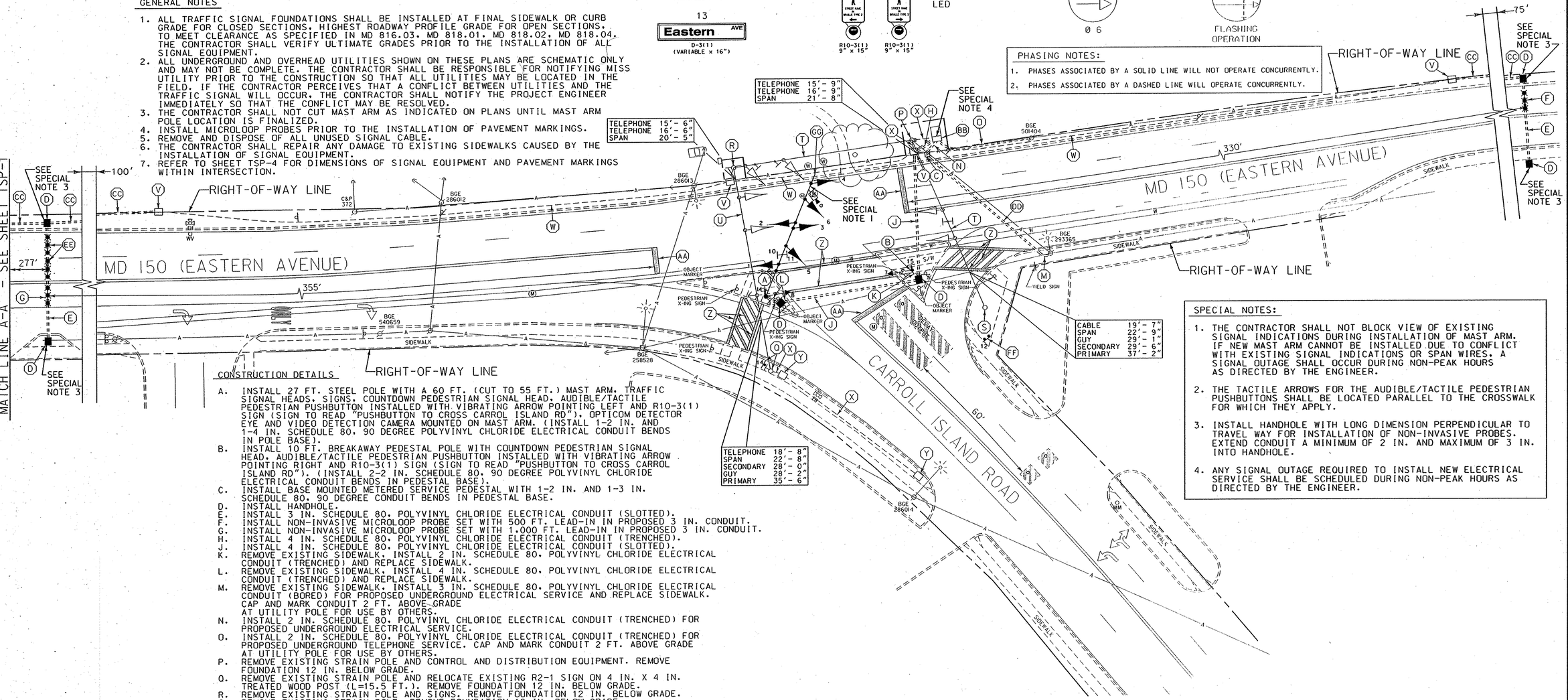
PROPOSED SIGNAL HEADS

NEMA PHASING

VIDEO DETECTION ZONE

GENERAL NOTES

1. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT 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.
2. 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 THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
4. INSTALL MICROLOOP PROBES PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
5. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
6. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
7. REFER TO SHEET TSP-4 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.



PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

SPECIAL NOTES:

1. THE CONTRACTOR SHALL NOT BLOCK VIEW OF EXISTING SIGNAL INDICATIONS DURING INSTALLATION OF MAST ARM. IF NEW MAST ARM CANNOT BE INSTALLED DUE TO CONFLICT WITH EXISTING SIGNAL INDICATIONS OR SPAN WIRES. A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
2. THE TACTILE ARROWS FOR THE AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS SHALL BE LOCATED PARALLEL TO THE CROSSWALK FOR WHICH THEY APPLY.
3. 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.
4. ANY SIGNAL OUTAGE REQUIRED TO INSTALL NEW ELECTRICAL SERVICE SHALL BE SCHEDULED DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.

CONSTRUCTION DETAILS

A. INSTALL 27 FT. STEEL POLE WITH A 60 FT. (CUT TO 55 FT.) MAST ARM. TRAFFIC SIGNAL HEADS. SIGNS. COUNTDOWN PEDESTRIAN SIGNAL HEAD. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING LEFT AND R10-3(1) SIGN (SIGN TO READ "PUSHBUTTON TO CROSS CARROL ISLAND RD"). OPTICOM DETECTOR EYE AND VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
B. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD. AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING RIGHT AND R10-3(1) SIGN (SIGN TO READ "PUSHBUTTON TO CROSS CARROL ISLAND RD"). (INSTALL 2-2 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN PEDESTAL BASE).
C. INSTALL BASE MOUNTED METERED SERVICE PEDESTAL WITH 1-2 IN. AND 1-3 IN. SCHEDULE 80. 90 DEGREE CONDUIT BENDS IN PEDESTAL BASE.
D. INSTALL HANDHOLE.
E. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
F. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
G. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1.000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
H. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
J. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED).
K. REMOVE EXISTING SIDEWALK. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) AND REPLACE SIDEWALK.
L. REMOVE EXISTING SIDEWALK. INSTALL 4 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) AND REPLACE SIDEWALK.
M. REMOVE EXISTING SIDEWALK. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND REPLACE SIDEWALK. CAP AND MARK CONDUIT 2 FT. ABOVE-GRADE AT UTILITY POLE FOR USE BY OTHERS.
N. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
O. INSTALL 2 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
P. REMOVE EXISTING STRAIN POLE AND CONTROL AND DISTRIBUTION EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE.
Q. REMOVE EXISTING STRAIN POLE AND RELOCATE EXISTING R2-1 SIGN ON 4 IN. X 4 IN. TREATED WOOD POST (L=15.5 FT.). REMOVE FOUNDATION 12 IN. BELOW GRADE.
R. REMOVE EXISTING STRAIN POLE AND SIGNS. REMOVE FOUNDATION 12 IN. BELOW GRADE.
S. REMOVE EXISTING STRAIN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE.
T. REMOVE EXISTING SPAN WIRE, SIGNAL HEADS AND SIGNS.
U. REMOVE EXISTING SPAN WIRE, SIGNAL HEADS AND OPTICOM DETECTOR EYE.
V. USE EXISTING HANDHOLE.
W. USE EXISTING CONDUIT.
X. CAP AND ABANDON EXISTING CONDUIT.
Y. REMOVE EXISTING HANDHOLE.
Z. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).
AA. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
BB. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL 2-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE CONDUIT BENDS IN CABINET BASE.
CC. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
DD. INSTALL 3 IN. SCHEDULE 80. POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SLOTTED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
EE. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1.000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT FOR BENGIES ROAD SIGNAL. (SEE SHEET TSP-1)
FF. INSTALL R3-8(7) SIGN ON TWO 4 IN. X4 IN. TREATED WOOD POSTS.
GG. CUT. CLEAN. GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
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REVISIONS
B RECONSTRUCT TRAFFIC SIGNAL CONTRACT NO. BA3965J17 9/15/2006
A INSTALL OPTICOM TRAFFIC CONTROL SYSTEM ALONG MD 150/CARROLL ISL. RD CONTRACT NO. XX1065385 5/2003

APPROVALS
TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION
ASST. TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
ORIGINAL ON FILE
DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 150 (EASTERN AVE) AND CARROLL ISLAND RD

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CHECKED BY: H. KILIAN	S.H.A. NO. B-549-509-485		SHEET NO.
SCALE: 1" = 20'	COUNTY: BALTIMORE	T.I.M.S. NO.	