CONSTRUCTION DETAILS

A. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET, CONTROLLER, AND ELECTRICAL UTILITY EQUIPMENT, WITH ALL NECESSARY EQUIPMENT (NOTE: 1-3 IN. AND 2-4 IN. 90 DEGREE BENDS.)

B. INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./60 FT. MAST ARMS, VEHICLE SIGNAL HEADS, SIGNS, RELOCATED VIDEO DETECTOR CAMERAS (INSTALL NEW VIDEO DETECTOR CABLES AND NEW MOUNTING HARDWARE), AND A 20-FT LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE WITH PHOTOCELL (NOTE: 1-3 IN. PVC 90 DEGREE BEND)

C. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE, PEDESTRIAN SIGNAL HEADS, AND PUSH BUTTON (NOTE: 1-3 IN. PVC 90 DEGREE BEND)

D. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE AND PEDESTRIAN SIGNAL HEAD (NOTE: 1-3 IN PVC 90 DEGREE BEND)

E. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)

F. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)

G. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED PRIOR TO ISLAND RECONSTRUCTION)

H. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED PRIOR TO ROADWAY RESURFACING)

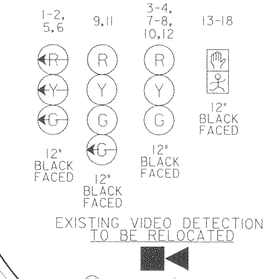
J. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED PRIOR TO ROADWAY RESURFACING)

K. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)

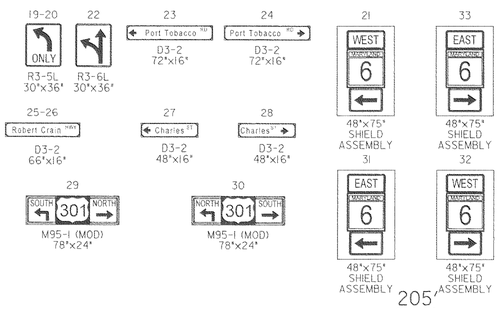
L. USE EXISTING CONDUIT

M. INSTALL HANDHOLE

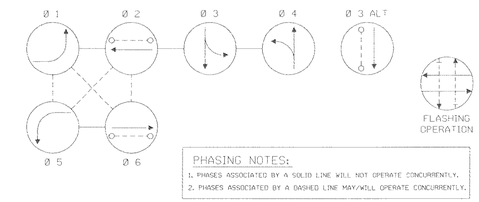
PROPOSED SIGNAL HEADS



SIGNS TO BE INSTALLED



NEMA PHASING



PHASING NOTES:

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

AERIAL LINE HEIGHTS - EAST SIDE

- PRIMARY (49'-3")
- SECONDARY (43'-3")
- TELEPHONE (29'-3")
- CABLE TV (27'-6")

CONSTRUCTION DETAILS (CONT.)

N. USE EXISTING HANDHOLE

O. INTERCEPT EXISTING CONDUIT AND INSTALL HANDHOLE

P. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRIC CONDUIT (FOR DETECTOR SLEEVE)

Q. INSTALL 6 FT. X 6 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (4 TURNS)

R. INSTALL MICROLOOP PROBE SETS

S. INSTALL SETS OF NON-INVASIVE MICROLOOP PROBES

T. PULL EXISTING INTERCONNECT CABLE TO HANDHOLE LOCATED AT STA 682+57 LEFT AND RE-ROUTE ACCORDING TO THE WIRING DIAGRAM

U. INSTALL 12 IN. HEAT-APPLIED WHITE THERMOPLASTIC PERMANENT PAVEMENT MARKING FOR CROSSWALK LINES

V. INSTALL 24 IN. HEAT-APPLIED WHITE THERMOPLASTIC PERMANENT PAVEMENT MARKING FOR STOP LINES

W. INSTALL 30 FT. LIGHT POLE WITH BREAKAWAY BASE, SIGN, AND A 15 FT. LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE WITH PHOTOCELL (NOTE: 1-3 IN. PVC 90 DEGREE BEND)

X INSTALL 30 FT. LIGHT POLE WITH BREAKAWAY BASE AND A 15 FT. LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE WITH PHOTOCELL (NOTE: 1-3 IN. PVC 90 DEGREE BEND)

Y. INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT (FOR DETECTOR SLEEVE)

Z. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT

UTILITY LEGEND

—G— —G—	GAS MAIN
—W— —W—	WATER MAIN
—S— —S—	SEWER MAIN
—E— —E—	ELECTRIC CABLES
—A— —A—	AERIAL CABLES
—T— —T—	TELEPHONE CABLES
—FO— —FO—	FIBRE OPTIC CABLES

GENERAL NOTES

1. THE CONDUITS SHOWN ARE TO BE INSTALLED PRIOR TO THE RESURFACING OF US 301.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF NEW GEOMETRICS PRIOR TO INSTALLATION OF NEW SIGNAL EQUIPMENT.
3. CONTRACTOR SHALL SALVAGE AND DELIVER CONTROLLER CABINET TO SHA SIGNAL SHOP IN HANOVER, MD
4. WITHIN 18 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
5. ALL PROPOSED SIGNAL EQUIPMENT SHALL BE INSTALLED TO FINAL GRADE.
6. SEE GENERAL INFORMATION SHEET FOR POLE, SIGNAL HEAD, CAMERA, AND SIGN LOCATIONS.
7. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO LOCATE THE STORM DRAIN IN THE PROXIMITY OF THE PROPOSED LIGHT STRUCTURE IN THE NORTHEAST QUADRANT OF THE INTERSECTION.
8. ALL EXISTING LOOP DETECTORS AND MICROLOOP PROBES WILL BE ABANDONED.
9. THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL EXISTING STEEL STRAIN POLES AND SIGNAL HEADS. REMOVE ALL EXISTING SPAN MOUNTED SIGNS, AND RELOCATE ALL EXISTING VIDEO DETECTOR CAMERAS AS SHOWN ON THIS PLAN.
10. SEE SIGNING AND MARKING PLAN FOR STOP LINE AND CROSSWALK LOCATIONS.
11. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE 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 THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE. THE CONTRACTOR SHALL NOTIFY THE SHA SIGNAL SHOP 72 HOURS PRIOR TO CONSTRUCTION TO COORDINATE THE DISCONNECTION AND RECONNECTION OF INTERCONNECT CABLES.

SS-1

REVISIONS	
K TOTAL INTERSECTION RE-CONSTRUCTION SHA NO. CH664570	4/2003
STV	
J REPLACED LOOPS ON NB US 301 AND WB MD 6. ADDED PROBES ON WB MD 6 CH-6095177	2/1998
PEI	
I REBUILT T/S DUE TO OH LINES; REPLACED EX. LOOP DETECTORS CH-587-50-585	11/1990
WW	

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

ORIGINALS ON FILE

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

US 301 (CRAIN HIGHWAY) AND MD 6 (PORT TOBACCO RD/CHARLES ST) TRAFFIC SIGNALIZATION PLAN

DRAWN BY:	W.F. FITCH	F.A.P. NO.	SEE TITLE SHEET	TS NO.	SHEET NO.
CHECKED BY:	J. SPENCE	S.H.A. NO.	CH-447X-575	82-K	
SCALE:	1 IN. = 20 FT.	COUNTY:	CHARLES	T.I.M.S. NO.	
DATE:	4-17-71	LOG MILE:	08030114.99	F-362	10 OF 14

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