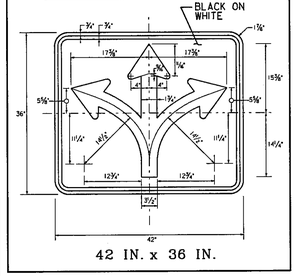
US 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

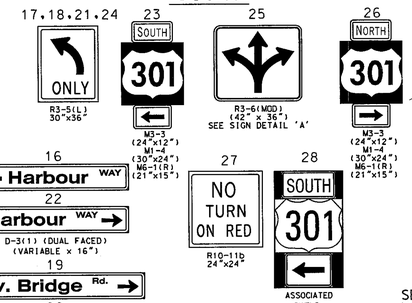
SPECIAL NOTES:

1. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND CONDUIT. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND CONDUIT PRIOR TO INSTALLING SIGNAL EQUIPMENT.
2. CONTRACTOR SHALL INSTALL NEW SIGNAL HEADS AND REMOVE EXISTING SIGNAL HEADS IMMEDIATELY FOLLOWING TO AVOID BLOCKAGE AND MINIMIZE LOAD ON EXISTING STRAIN POLES.
3. THE CONTRACTOR SHALL CONTACT MR. CHARLES TURNER AT (410) 365-1547 TO COORDINATE ELECTRICAL CABLE CONNECTION TO EXISTING RED LIGHT CAMERA.

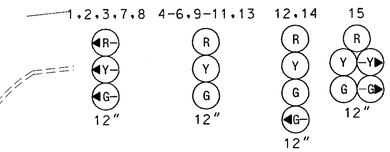
SIGN DETAIL 'A'



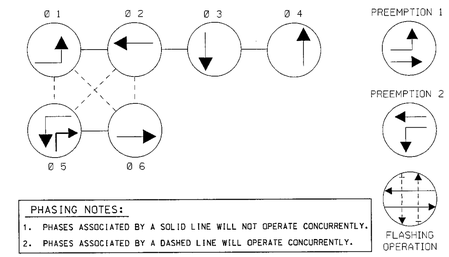
PROPOSED SIGNS



PROPOSED SIGNAL HEADS

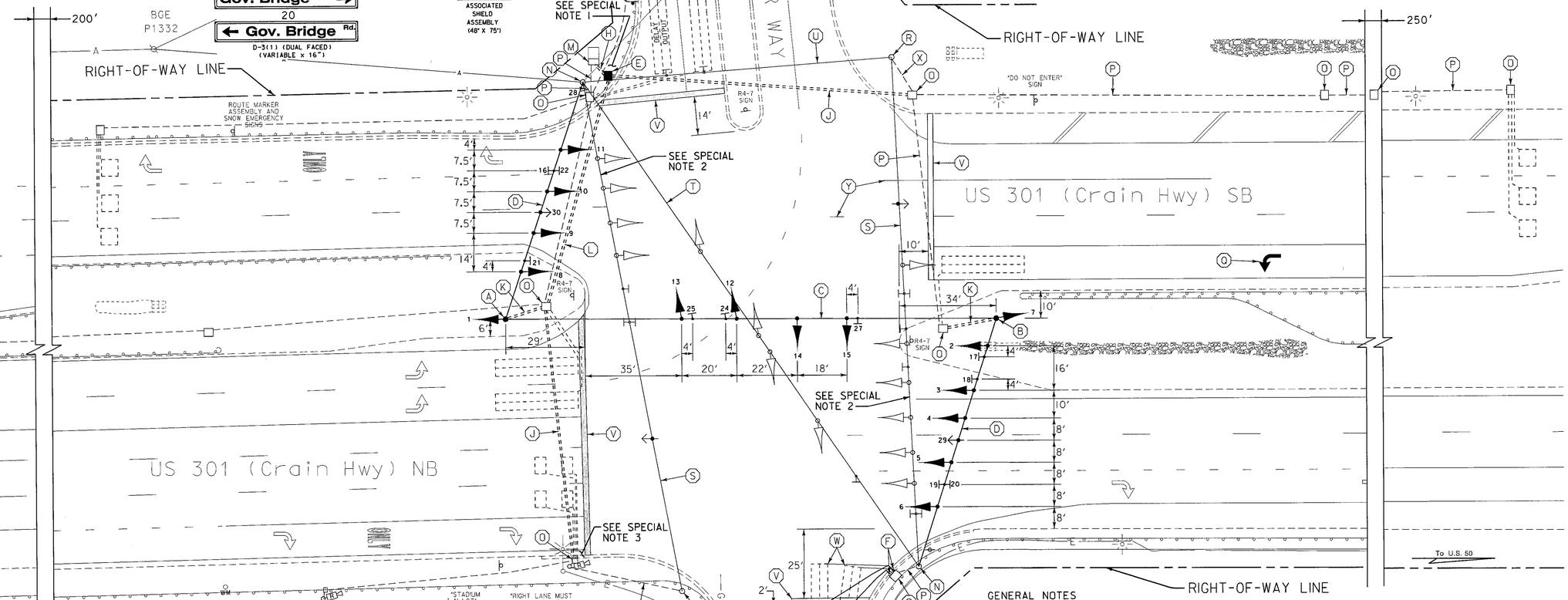


NEMA PHASING



PHASING NOTES:

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



CONSTRUCTION DETAILS

A. INSTALL 12 IN. x 32 FT. STEEL STRAIN POLE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE CONDUIT BENDS IN POLE BASE).
B. INSTALL 12 IN. x 32 FT. STEEL STRAIN POLE WITH POLE MOUNTED SIGNAL HEAD. (INSTALL 1-2 IN. AND 1-3 IN. SCHEDULE 80. 90 DEGREE POLYVINYL CHLORIDE CONDUIT BENDS IN POLE BASE).
C. INSTALL 3/8 IN. STEEL SPAN WIRE, 1/4 IN. TETHER WIRE, SIGNAL HEADS AND SIGNS. (BOTTOM TETHER SIGNAL HEADS AND SIGNS).
D. INSTALL 3/8 IN. STEEL SPAN WIRE, 1/4 IN. TETHER WIRE, SIGNAL HEADS, SIGNS AND OPTICOM DETECTOR EYE. (BOTTOM TETHER SIGNAL HEADS AND R3-5(L) SIGNS).
E. INSTALL HANDHOLE.
F. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
G. INSTALL 6 FT. x 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
H. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
J. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
K. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
L. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
M. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL 3 IN. SCHEDULE 80, POLYVINLY CHLORIDE ELECTRICAL CONDUIT BEND IN CABINET BASE.
N. USE EXISTING STRAIN POLE.
O. USE EXISTING HANDHOLE.
P. USE EXISTING CONDUIT.
Q. REMOVE EXISTING AND INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (ARROW).

CONSTRUCTION DETAILS CONT.

R. REMOVE EXISTING STRAIN POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE.
S. REMOVE EXISTING SPAN WIRE, TETHER WIRE, SIGNAL HEADS AND SIGNS.
T. REMOVE EXISTING SPAN WIRE AND SIGNAL HEADS AND SIGNS.
U. REMOVE EXISTING SPAN WIRE AND SIGNS.
V. REMOVE EXISTING AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
W. ABANDON EXISTING LOOP DETECTOR.
X. CAP AND ABANDON EXISTING CONDUIT.
Y. REMOVE EXISTING PAVEMENT MARKINGS BEYOND STOP LINE.
Z. INSTALL M3-3 (24 IN. x12 IN.), M1-4 (30 IN.x24 IN.), AND M6-1(R) (21 IN.x15IN.) SIGNS ON ONE 4 IN. X 4 IN. WOOD SIGN SUPPORT.
AA. INSTALL M3-1 (24 IN.x12 IN.), M1-4 (30 IN.x24 IN.), AND M6-1(R) (21 IN.x15 IN.) SIGNS ON ONE 4 IN. X 4 IN. WOOD SIGN SUPPORT.

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 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.
2. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.

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

REVISION 'D'

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

REVISIONS			
D	RECONSTRUCT PORTION OF TRAFFIC SIGNAL CONTRACT *AT 9575185	BRD	12/27/03
C	INSTALL OPTICOM DETECTOR EYE SB US 301	CEI	2/00
B	INSTALL OPTICOM DETECTOR EYE NB US 301		5/98
A	INSTALL SAMPLING LOOP DETECTORS		3/95

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

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
US 301 (CRAIN HWY) AND
GOVERNORS BRIDGE RD./ HARBOUR WAY

DRAWN BY: SPP	F.A.P. NO.		TS NO. TS-3410D
CHECKED BY: TMH	S.H.A. NO.	PG 053/053	SHEET NO.
SCALE: 1" = 20'	COUNTY:	PRINCE GEORGES	T.I.M.S. NO. F352
DATE: 2/21/00	LOG MILE:	16030123.76	1 OF 2

M:\20008\us301&GovernorsBridge\f352gp01.dgn