US 301 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

EXISTING SIGNALS & SIGNS

2.3 5.7 — R, YS, G — 12"
3-6 9-12 — R, YS, G — 12"
15.18 — R, Y, G — 12"
13.14 16.17 — R, Y, G, G — 12"

19.20.22.23 25.26.28.29 — ONLY — R3-5 30" x 36"

21A.24B — Berry Rd. / Leonardtown Rd. — D3-2 32" x Var.
21B.24A — Leonardtown Rd. / Berry Rd. — D3-2 32" x Var.

27A.27B.30A.30B — Crain Hwy. — D3-2 16" x Var.

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF OPTICOM PRE-EMPTION FOR WB MD 5.

PROPOSED SIGNALS

1.7 — R, Y, G — 12"

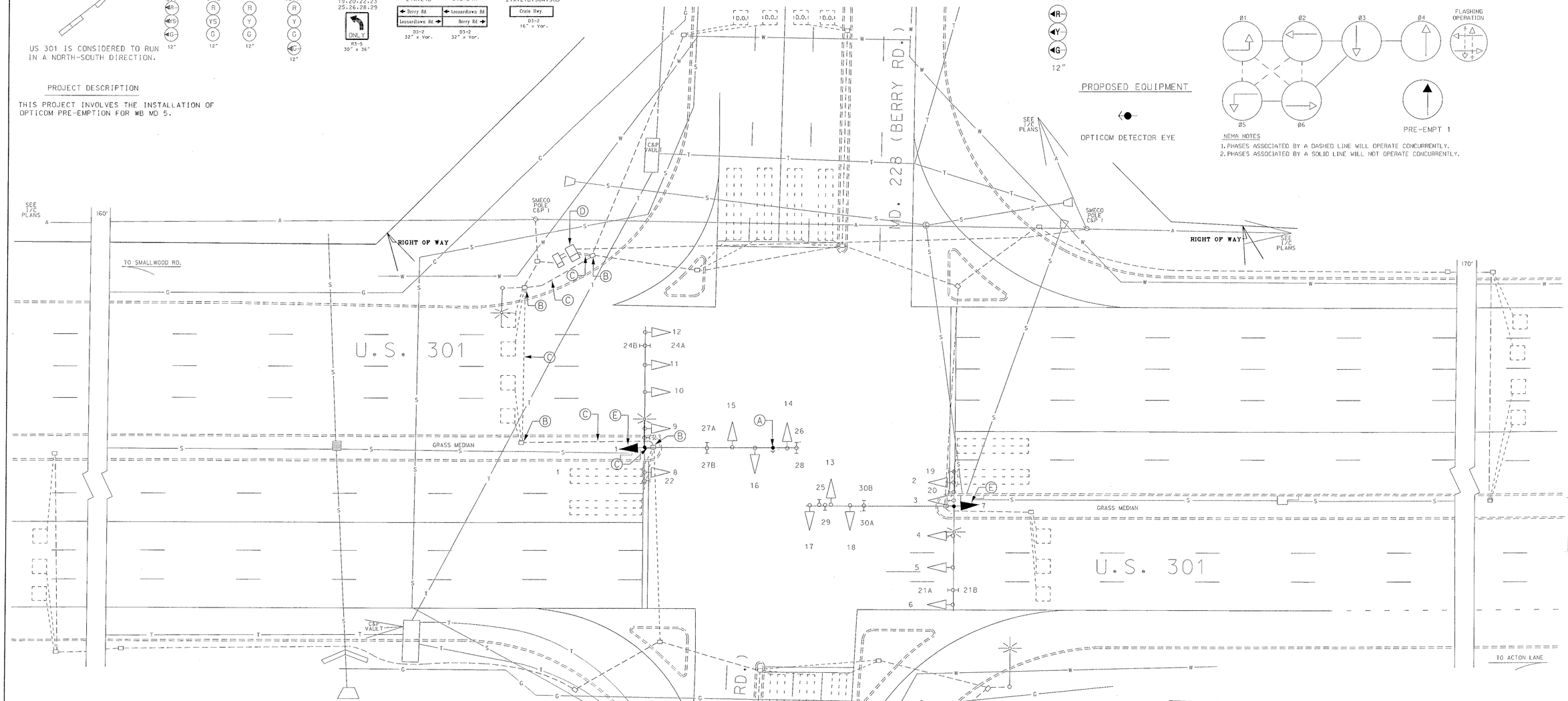
PROPOSED EQUIPMENT

OPTICOM DETECTOR EYE

NEMA PHASING

NEMA NOTES

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



A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

QUANTITY	ITEM DESCRIPTION	
1 EA	"D" PANEL W/ HARNESS	
2 EA	RETROFIT DETECTOR RACK	THESE ITEMS TO BE CHARGED TO THE STATEWIDE DETECTOR UPGRADE PROGRAM
7 EA	4-CHANNEL RACK MOUNT AMPLIFIER	
1 EA	AMPLIFIER POWER SUPPLY	

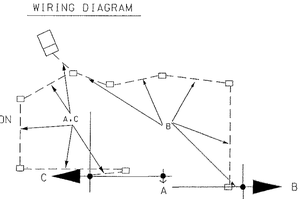
B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

ITEM #	QUANTITY	ITEM DESCRIPTION
8012	1 EA	FURNISH AND INSTALL 3M #721 OPTICOM DETECTOR EYE
8014	1 EA	FURNISH AND INSTALL 3M OPTICOM #762 DISCRIMINATOR MODULE
8037	300 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM DETECTOR CABLE
8044	575 LF	FURNISH AND INSTALL 5-CONDUCTOR NO 14AWG ELECTRICAL CABLE
8084	6 EA	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION

C. EQUIPMENT TO BE RETURNED TO THE SHA

NONE

WIRING DIAGRAM



A DETECTOR CABLE
4-CONDUCTOR OPTICOM

B.C 5-CONDUCTOR NO 14AWG
ELECTRICAL CABLE

CONSTRUCTION DETAILS

A. INSTALL OPTICOM DETECTOR EYE ON EXISTING MAST ARM
B. USE EXISTING HANDBOX
C. USE EXISTING CONDUIT
D. INSTALL 4-CHANNEL AMPLIFIERS, RETROFIT RACK, DISCRIMINATOR MODULE AND POWER SUPPLY IN EXISTING CABINET.
--(THIS WORK TO BE PERFORMED BY SHA SIGNAL SHOP)--
E. INSTALL 12" 3-SECTION BLACK FACED SIGNAL HEAD ON EXISTING SIGNAL POLE

UTILITY LEGEND

G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES

REVISIONS	APPROVALS
G. 03-25-91 - REVISED SERVICE FEED	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
R.R.Z.	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
F. 06-15-90 - REVISED CABINET LOCATION DUE TO THE CHANGES TO ISLAND SHA NO. CH-555-501-570	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
E.M.M. D.J.D. E.T.P. T.H.	DIRECTOR, TRAFFIC & SAFETY
H. 05/98 - AS BUILT: ADDED THIRD SIGNAL TO N/B & S/B US 301 & MD 5. ADD BLACK FACES TO ALL SIGNAL HEADS. ADD STROBES TO N/B & S/B US 301: SHA NO.	ORIGINAL ON FILE
W.M. 2/12	
① INSTALL OPTICOM FOR WB MD 5	
TIMS# E198 6/01	
CJS	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
U.S. 301 and MD. 5/ MD. 228
WALDORF, MARYLAND

DRAWN BY:	LES TOWNSEND	F.A.P. NO.		TS NO. 334 I	SHEET NO.
CHECKED BY:	EMM	S.H.A. NO.	CH 637A54 1 of 4		
SCALE:	1:20	COUNTY:	CHARLES	T.I.M.S. NO. N/A	1 OF 5
DATE:	4/71	LOG MILE:	08030123.57		