F H WA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.			

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC CONTROL SIGNAL AT US 301 & MD 382 IN PRINCE GEORGE'S COUNTY.

US 301 RUNS IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THIS INTERSECTION IS EQUIPPED WITH AN EIGHT PHASE FULLY-ACTUATED CONTROLLER HOUSED IN A POLE-MOUNTED CABINET. THERE IS A FIRE HOUSE PRE-EMPTION FOR WESTBOUND MD 382. AN EXCLUSIVE/PERMISSIVE FOR SOUTHBOUND US 301 FOR MD 382 WILL BE PROVIDED.

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION AND INSTALLED BY THE SHA SIGNAL SHOP

ITEM NO.	QUANTITY	DESCRIPTION
	1 EACH	COMBINATION 8"/12" ONE-WAY, FIVE-SECTION (8" R,Y,G,12"RA,12"YA) SIGNAL HEAD, MAST ARM MOUNTED
	1 EACH	12" ONE-WAY, FIVE-SECTION (R,Y,G,RA,YA) SIGNAL HEAD - MAST ARM MOUNTED
	1 EACH	14' PEDESTAL POLE WITH T/BASE AND ANCHORS
	21 SF	OVERHEAD MOUNTED SIGN R10-12 SIGN "YIELD ON GREEN BALL". (1 EACH) MAST ARM MOUNTED HARDWARE

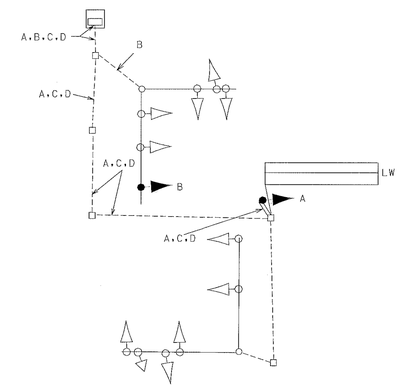
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
8001	1.0 C.Y.	F/I CONCRETE FOR SIGNAL FOUNDATION
8003	1 EACH	F/I PEDESTAL POLE (ANY SIZE)
8011	2 EACH	INSTALLATION OF SIGNAL HEAD
8021	120 L.F.	F/I SAWCUT FOR SIGNAL (LOOP DETECTOR)
8022	10 L.F.	F/I 1" ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8024	20 L.F.	F/I 2" (PVC) SCHEDULE 80 - ELECTRICAL CONDUIT - TRENCHED
8034	220 L.F.	F/I 6 AWG STRANDED BARE COPPER GROUND WIRE
8040	480 L.F.	F/I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8041	120 L.F.	F/I 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
8045	325 L.F.	F/I 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
8049	1 EACH	F/I GROUND ROD
8054	21 S.F.	INSTALLATION OF OVERHEAD MOUNTED SIGN
NEG.	3 EACH	RELOCATION OF EXISTING SIGNS

UTILITY LEGEND

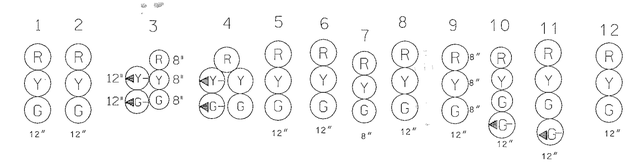
—G—G—	GAS MAIN
—W—W—	WATER MAIN
—S—S—	SEWER MAIN
—E—E—	ELECTRIC CABLES
—A—A—	AERIAL CABLES
—T—T—	TELEPHONE CABLES

WIRING DIAGRAM



A,B - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
C 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED) NO. 14 AWG
LW LOOP WIRE
D NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	
PHASE 2 & 5	G	G	◀G-G	◀G-G	G	G	R	R	R	R	R	R	→
2 & 5 CHANGE	Y	Y	◀Y-G	◀Y-G	Y	Y	R	R	R	R	R	R	←
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	→
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	←
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	↓↑
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	↓↑
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	↑↓ ← →

FIRE HOUSE PRE-EMPTION

FIREHOUSE PRE-EMPTION PHASE 8	R	R	R	R	R	R	R	R	R	◀G-G	◀G-G	G	← ↑
PRE-EMPTION CLEARANCE	R	R	R	R	R	R	R	R	R	Y	Y	Y	← ↑
PHASE 2 & 6 NORMAL OPERATION	G	G	G	G	G	R	R	R	R	R	R	R	→ ←

REVISIONS
(E). INSTALL EXCLUSIVE/PERMISSIVE PHASE FOR SOUTHBOUND US 301
MCJ
D. 06/96 - AS BUILT; ADDED OPTICOM TO W/B MD. 382 SHA # AW-102-501-385
W.M. D.J.D.
C. 11/93 - ADDED LOOPS ON MD. 382 SHA #
W.M. D.J.D. D.A.Z. E.T.P. T.H.
B. 9-28-93 AS BUILT SHA #
RRZ

APPROVALS

CHIEF, SIGNAL DESIGN SECTION

ASST. DIRECTOR, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

NOTE: THIS IS A REVISION TO P-916-501-385 DATED 11-11-88 ORIGINAL PLANS ON FILE

MDOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

SIGNAL # 160300110.34

DRAWN BY: S.R.BARANOWSKI (FOR STS)
DES. BY: R.R.ZACHERL (FOR STS)
CHK. BY: E.M.M.

U.S. 301 & MD. 382

COUNTY: PRINCE GEORGES

DATE: 1-11-88
SCALE: 1" = 20'
F.A.P. NO.
S.H.A. NO. 23855T2507427

TS/STD. NO. TS-2366 (E)

SHEET NO. 2 OF 2