

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION US 301 AND SHINING WILLOW WAY IN CHARLES COUNTY. WORK WILL CONSIST OF REPLACING THE EXISTING BASE MOUNTED CABINET AND CONTROLLER DUE TO WIDENING. US 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EXISTING EIGHT-PHASE, FULLY ACTUATED CONTROLLER WITH ALL ASSOCIATED EQUIPMENT HOUSED IN A BASE MOUNTED CABINET WILL BE RELOCATED. THE CONTROLLER OPERATES IN A SIX PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR SOUTHBOUND US 301 AND AN EXCLUSIVE-PERMISSIVE U-TURN PHASE FOR NORTHBOUND US 301. THIS PHASING WILL NOT CHANGE.

SPECIAL NOTE

- UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.
- FOR THE CONTROLLER RELOCATION, THE CONTRACTOR SHALL CONTACT THE STATE POLICE FOR TRAFFIC CONTROL DURING SWITCH-OVER AND WORK SHOULD OCCUR ON A SATURDAY OR SUNDAY DURING NON-PEAK HOURS.

PHASE CHART

PHASE	1	2	3	4	5	6	7	8	9
PHASE 1 & 5	R	R	R	R	R	R	R	R	FLR
1 & 5 CHANGE	PHASE 1 & 5 CHANGE MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6								
PHASE 1 & 6	G	R	R	R	R	R	R	R	FLR
1 CHANGE	G	R	R	R	R	R	R	R	FLR
PHASE 2 & 5	R	R	R	G	G	G	R	R	FLR
5 CHANGE	R	R	R	G	G	G	R	R	FLR
PHASE 2 & 6	G	G	G	G	G	G	R	R	FLR
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	FLR
PHASE 4	R	R	R	R	R	R	G	G	FLY
4 CHANGE	R	R	R	R	R	R	Y	Y	R
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

- | | |
|--|---|
| MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003 | MR. ANDRE FUTREL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002 |
| MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1005 | |

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

- | | |
|--|--|
| MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630 | MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676 |
| MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631 | MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668 |
| MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652 | |

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
1 LS	MAINTENANCE OF TRAFFIC
1 EA	TEST PIT EXCAVATION
1 LS	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL
1 EA	FURNISH AND INSTALL VIDEO DETECTION INTERFACE EQUIPMENT
1 EA	FURNISH AND INSTALL DETECTION CAMERA
1 EA	FURNISH AND INSTALL 250' VIDEO DETECTION CABLE
4 EA	FURNISH AND INSTALL NON-EVASIVE MICRO-LOOP PROBE WITH 1000' LEAD-IN
260 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - SLOTTED
30 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
2 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
130 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
75 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG
1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
3 EA	FURNISH AND INSTALL GROUND ROD-1/4 IN. DIAMETER X 10 FT. LENGTH
360 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED)
1100 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO 14 AWG)
420 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO 12 AWG)
1 EA	RELOCATE CONTROLLER AND CABINET BASE MOUNT
2 EA	REMOVE EXISTING OVERHEAD SIGN
1 EA	FURNISH AND INSTALL VIDEO INTERFACE EQUIPMENT
1 LS	STATE POLICE TRAFFIC CONTROL
4200 LF	FURNISH AND INSTALL 12-PAIR VOICE GRADE INTERCONENCT CABLE
40 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED

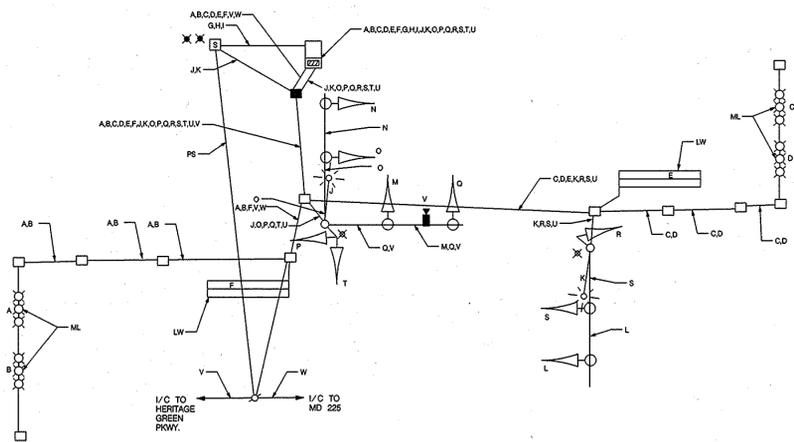
EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM



WIRING KEY

- A-D MICRO-LOOP PROBE
- E-F 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
- G-I 1 CONDUCTOR ELECTRICAL CABLE (NO 4 A.W.G.)
- J-K 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- L-N EXISTING 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- O-T 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- U STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- V-W 12-PAIR VOICE GRADE INTERCONNECT CABLE
- PS PROPOSED ELECTRICAL SERVICE
- LW LOOP WIRE (NO. 14 A.W.G.)
- ML MICRO-LOOP PROBE
- X GROUND ROD

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN
US 301 AT SHINING WILLOW WAY

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SCALE	NONE	DATE	3-9-07	CONTRACT NO.	BW996M82
DESIGNED BY	T. ZAYDEL	COUNTY	CHARLES		
DRAWN BY	T. ZAYDEL	LOGMILE	0803015.BA		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	I-319		
F.A.P. NO.	N/A	-TOD NO.			
DRAWING NO.	TS-4214 A GI	SHEET NO.	2	OF	2