

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL NORTHBOUND MD 3 AND THE SOUTHBOUND MD 3 'J' TURN IN ANNE ARUNDEL COUNTY. MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA 2 PHASE, FULLY ACTUATED MODE.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE AND ONE (1), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A NEMA "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
3 CY	TEST PIT EXCAVATION
1 EA	CONTROLLER AND CABINET - BASE MOUNT
18 EA	12 INCH LED SIGNAL HEAD SECTION
8 CY	CONCRETE FOUNDATION FOR SIGNAL
6 EA	ELECTRICAL HANDHOLE
400 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
220 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
60 LF	2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
60 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
160 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
1 EA	VIDEO DETECTION CAMERA AND CABLE
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
75 LF	WOOD SIGN SUPPORTS 4 IN. X 6 IN.
300 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.)
80 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
850 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
60 LF	ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 A.W.G.)
300 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
230 LF	12-PAIR COMMUNICATION CABLE
340 LF	DISCONNECT, PULL BACK AND REROUTE CABLE
3 EA	NON-INVASIVE MICRO-LOOP PROBE AND LEAD-IN CABLE
1 EA	15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE
1 EA	27 FT. TWIN MAST ARM POLE & 50FT/70 FT MAST ARMS
1 EA	14 FT. BREAKAWAY PEDESTAL POLE
1 EA	R3-2 SIGN (30" x 30") - MAST ARM MOUNT
2 EA	R3-SL SIGN (30" x 36") - MAST ARM MOUNT
1 EA	R3-1 SIGN (30" x 30") - MAST ARM MOUNT
2 EA	W3-3 SIGN (48" x 48") & W NEW PANEL (30" x 30") - GROUND MOUNT
1 EA	SHIELD ASSEMBLY (36" x 75") - POLE MOUNT
75 LF	24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
1 EA	4-CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
5 EA	3/4 IN. X 10 FT. COPPER GROUND ROD
1 EA	VIDEO INTERFACE EQUIPMENT

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 AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 841-1003	MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 841-1002
MR. MIKE HUBER UTILITY ENGINEER (410) 841-1005	

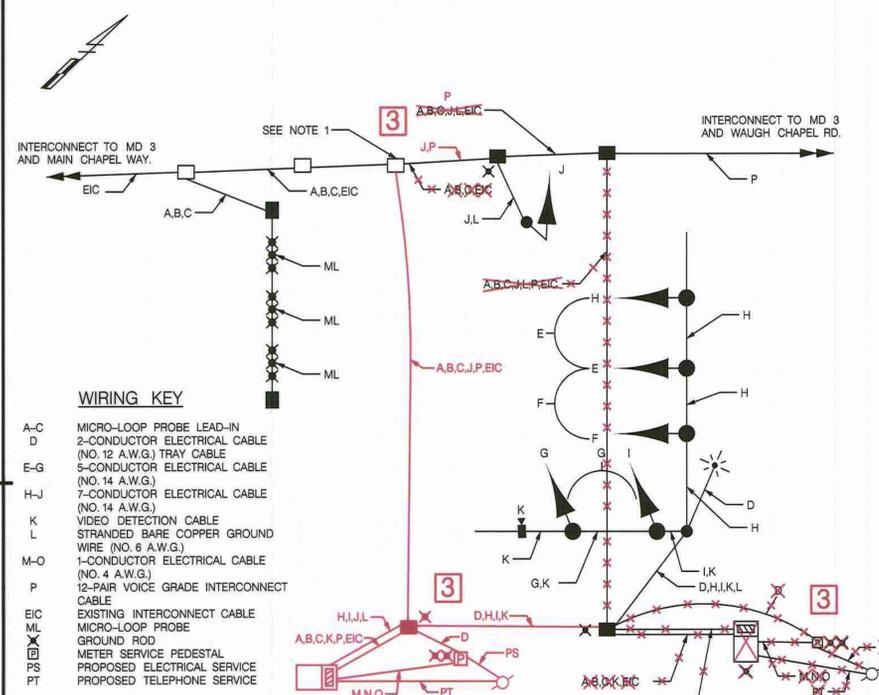
CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

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 CHIEF - SIGNAL OPERATIONS SECTION (410) 787-7652	

DRILL HOLES

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NOTES
1. DISCONNECT EXISTING INTERCONNECT CABLE FROM THE EXISTING CONTROLLER AT MD 3 & WAUGH CHAPEL RD. AND PULL BACK TO THIS POINT. RE-INSTALL THROUGH NEW CONDUIT TO THE NEW BASE MOUNTED CABINET & CONTROLLER AT THIS INTERSECTION.

PHASE CHART

	1	2	3	4	5	6
PHASE 2	G	G	G	R	R	R
2 CHANGE	Y	Y	Y	R	R	R
PHASE 4	R	R	R	G	G	G
4 CHANGE	R	R	R	Y	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLR	FLR	FLR

RED LINE REVISION NO. 3
March 24, 2011
Relocate proposed cabinet and controller
TEDD Approval: [Signature]

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
NORTHBOUND MD 3 AT
SOUTHBOUND MD 3 "J-TURN"

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite B
Gambrills, MD 21054
(410) 923-7101
FAX: (410) 923-6473
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

GENERAL INFORMATION PLAN

SCALE	NONE	DATE	8-1-09	CONTRACT NO.	BW996M82
DESIGNED BY	T. ZAYDEL	COUNTY	ANNE ARUNDEL		
DRAWN BY	T. ZAYDEL	LOGMILE	02000303.85		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	J - 663		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS-4726GI	SHEET NO.	2	OF	2