

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2/4 AND MD 524/COX ROAD IN CALVERT COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF AN ADDITIONAL LANE ON MD 524/COX ROAD. MD 2/4 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SEVEN-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 2/4 AND AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR EASTBOUND MD 524. THE INTERSECTION WILL NOW OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 2/4 AND SIDE STREET SPLIT PHASING.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

EQUIPMENT LIST "A"

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

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
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LS	MAINTENANCE OF TRAFFIC
1 CY	TEST PIT EXCAVATION
1425 LF	5 IN. HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
60 LF	24 IN. HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
1 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTERS 'ONLY'
4 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS
24 EA	12 IN. L.E.D. SIGNAL HEAD SECTION
9 EA	8 IN. L.E.D. SIGNAL HEAD SECTION
5 CY	CONCRETE FOUNDATION FOR SIGNAL
1 EA	14 IN. X 32 FT. STEEL STRAIN POLE
325 LF	STEEL SPAN WIRE - 1/4 IN DIAMETER
325 LF	STEEL SPAN WIRE - 3/8 IN DIAMETER
1 EA	ELECTRICAL HANDHOLE
30 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
120 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
375 LF	VIDEO DETECTION CABLE FOR EXISTING CAMERA
1 EA	VIDEO DETECTION CAMERA AND CABLE
60 LF	WOOD SIGN SUPPORTS 4 IN. X 4 IN.
375 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.)
100 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
2000 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
40 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
1 EA	3/4 IN. X 10 FT. GROUND ROD
2 EA	TEMPORARY BACK-GUY DURING CONSTRUCTION
1 EA	MICRO-LOOP PROBE
2 EA	D-3(1) (VAR X 16") DUAL FACE SIGN - MAST ARM MOUNT
1 EA	R3-SL (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-6L (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-SR (30" X 36") SIGN - MAST ARM MOUNT
2 EA	R3-8a (48" X 30") SIGN - GROUND MOUNT
1 EA	RELOCATE EXISTING VIDEO DETECTION CAMERA
450 LF	DISCONNECT, PULL BACK AND RE-ROUTE CABLE

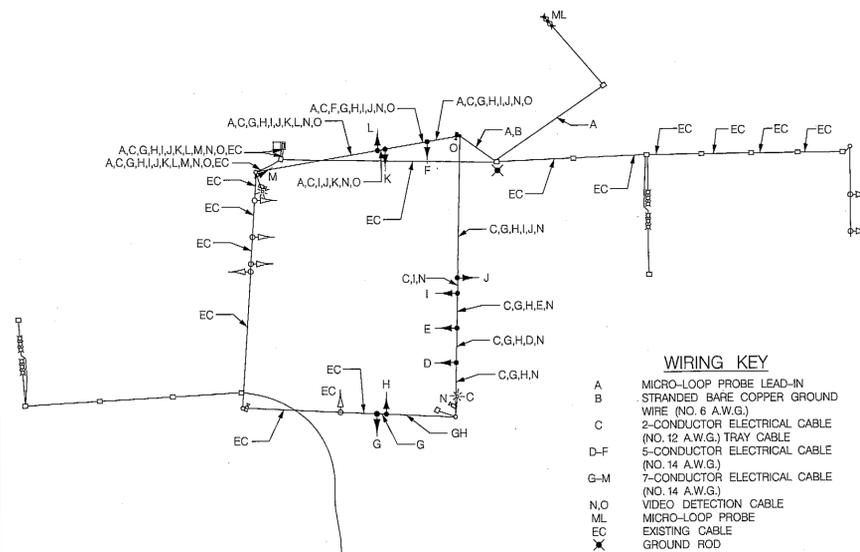
EQUIPMENT LIST "C"

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.

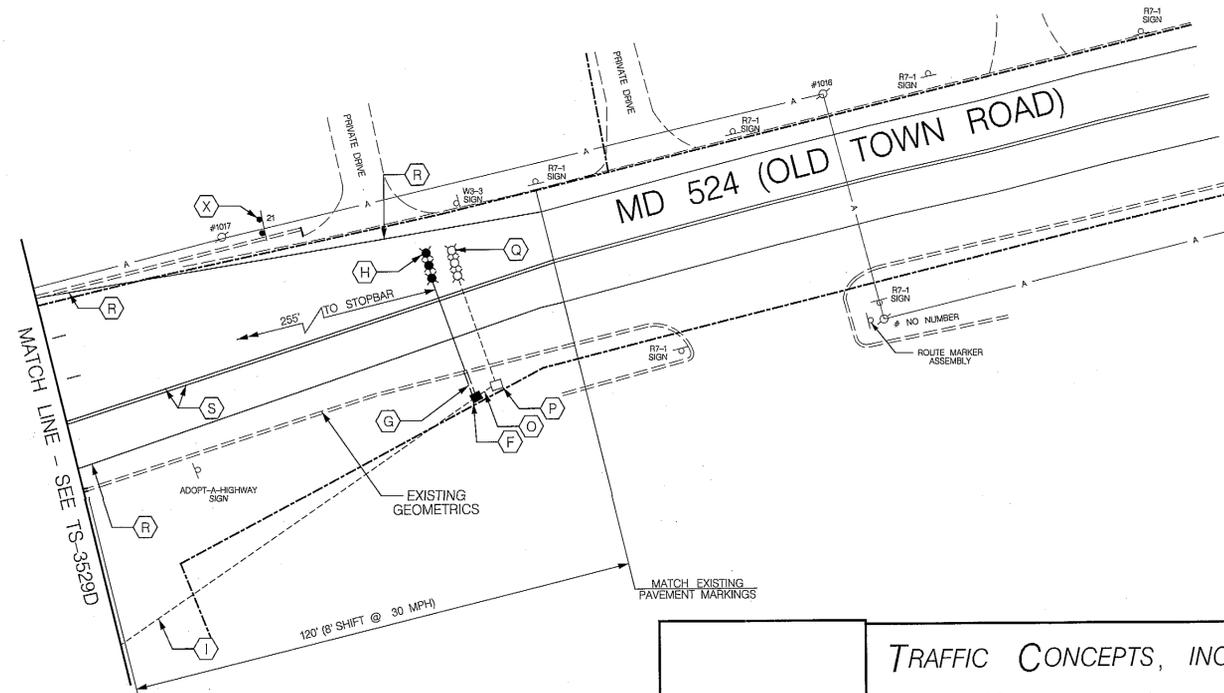
QUANTITY	DESCRIPTION
NONE	

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



SCALE: 1" = 20'



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) 841-1039

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. AVIJIT MAJI
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

MR. MIKE STOCKER
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PHASE 1 & 5	←G	←G	R	R	FLY	FLY	←G	←G	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	←G	←G	R	R	FLY	FLY	←G	←G	R	R	R	R	R	R	R	R	R
PHASE 1 & 6	←G	←G	G	G	FLY	FLY	←R	←R	R	R	R	R	R	R	R	R	R
1 CHANGE	←Y	←Y	G	G	FLY	FLY	←R	←R	R	R	R	R	R	R	R	R	R
PHASE 5	←R	←R	R	R	FLY	FLY	←G	←G	G	G	R	R	R	R	R	R	R
5 CHANGE	←R	←R	R	R	FLY	FLY	←Y	←Y	G	G	R	R	R	R	R	R	R
PHASE 2 & 6	←R	←R	G	G	FLY	FLY	←R	←R	G	G	R	R	R	R	R	R	R
2 & 6 CHANGE	←R	←R	Y	Y	FLY	FLY	←R	←R	Y	Y	R	R	R	R	R	R	R
PHASE 3	←R	←R	R	R	FLY	FLY	←R	←R	R	R	R	R	R	R	R	R	R
3 CHANGE	←R	←R	R	R	FLY	FLY	←R	←R	R	R	R	R	R	R	R	R	R
PHASE 4	←R	←R	R	R	FLY	FLY	←R	←R	R	R	G	G	G	G	R	R	R
4 CHANGE	←R	←R	R	R	FLY	FLY	←R	←R	R	R	Y	Y	Y	Y	R	R	R
FLASHING OPERATION	←FLR	←FLR	FLY	FLY	FLY	FLY	←FLR	←FLR	FLY	FLY	FLR						

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 2/4 AND MD 524/COX RD.
HUNTINGTOWN, MARYLAND

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	AS NOTED	DATE	12-6-2012	CONTRACT NO.	BW596M82
DESIGNED BY	T. ZAYDEL	COUNTY	CALVERT		
DRAWN BY	T. ZAYDEL	LOGMILE	04000226.31		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	L-419		
F.A.P. NO.	N/A	TOD NO.			
DRAWING NO.	TS-352-6DGI	SHEET NO.	2	OF	2