

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING EMERGENCY TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 175 AND CLARK ROAD/BLOBS PARK ROAD IN ANNE ARUNDEL COUNTY. MD 175 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. WORK WILL CONSIST OF REPLACING THE STRAIN POLES WITH MAST ARM POLES AT THE INTERSECTION DUE TO WIDENING.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A FLASHING MODE UNTIL ACTUATED BY A PUSHBUTTON LOCATED THE FIREHOUSE. WHEN ACTUATED, THE MD 175 SIGNAL INDICATIONS TURN RED. THIS OPERATION WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE BASE MOUNTED CONTROLLER AND CABINET WILL BE INSTALLED AT THE INTERSECTION.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1019

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1013

MR. MIKE HUBER
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1039

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) 787-7666

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	9	9a
	(R)	(Y)	(Y)							
	(Y)	(Y)	(Y)							
	(O)	(O)	(O)							
NORMAL OPERATION	8" FLY	8" FLY	8" FLY	8" FLY	8" FLR	8" FLR	8" FLR	8" FLR	DARK	DARK
PRE-EMPTION WARNING	8" FLY	8" FLY	8" FLY	8" FLY	12" FLR	12" FLR	12" FLR	12" FLR	DARK	DARK
CHANGE	12" R	12" FLY	12" FLY	12" FLY	12" R	12" R	12" R	12" R	FLY	FLY
ALL RED PRE-EMPTION	12" R	FLY	FLY							
CHANGE	12" R	FLY	FLY							
FLASHING OPERATION	12" FLY	12" FLY	12" FLY	12" FLY	12" FLR	12" FLR	12" FLR	12" FLR	DARK	DARK

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
12 EA	12 IN. LED SIGNAL HEAD SECTION
8 EA	8 IN. LED SIGNAL HEAD SECTION
140 LF	24 IN. SOLID WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINE
10 CY	CONCRETE FOUNDATION FOR SIGNAL
1 EA	27 FT. TWIN MAST ARM POLE & 50FT/70 FT MAST ARMS
1 EA	27 FT. TWIN MAST ARM POLE & 50FT/60 FT MAST ARMS
1 EA	15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE
4 EA	ELECTRICAL HANDHOLE
20 LF	2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
15 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
385 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
185 LF	4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
1 EA	METERED SERVICE PEDESTAL EMBEDDED
20 LF	ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 A.W.G.) - THHN /THWN
500 LF	ELECTRICAL CABLE 3 - CONDUCTOR (NO. 14 A.W.G.)
820 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
780 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
150 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.) TRAY CABLE
215 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
6 EA	3/4 IN. X 10 FT. GROUND ROD
2 EA	D3-2 DUAL FACE (VAR X 16") - MAST ARM MOUNT
2 EA	W11-B(1) (72" X 36") SIGN - MAST ARM MOUNT

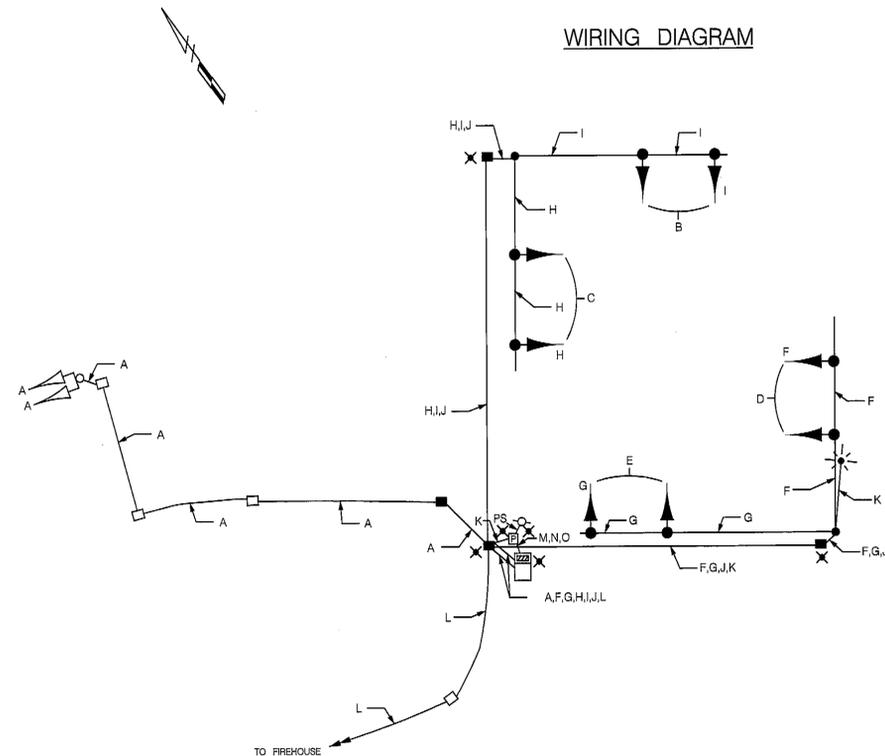
EQUIPMENT LIST "C"

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.

WIRING DIAGRAM



WIRING KEY

- A-E 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F-I 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- K 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY CABLE
- L 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- M-O 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- PS PROPOSED ELECTRIC SERVICE
- X GROUND ROD

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

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 175 AND CLARK RD./BLOBS PARK RD.
FORT MEADE, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE	NONE	DATE	8-23-10	CONTRACT NO.	BW-996M82
DESIGNED BY	J.K. SCHMID	COUNTY	ANNE ARUNDEL		
DRAWN BY	J.K. SCHMID	LOGMILE	02017508.19		
CHECKED BY	T. ZAYDEL	T.I.M.S. NO.	K-555		
F.A.P. NO.	NA	TOD NO.			

DRAWING NO. TS-1419D GI SHEET NO. 2 OF 2

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Tuesday, August 24, 2010 AT 09:40 AM