

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REMOVAL OF AN OPTICOM DETECTOR EYE AND PRE-EMPTION FOR EASTBOUND HOWARD STREET, INSTALLATION OF A WESTBOUND CORRIDOR ROAD PRE-EMPTION PHASE AND THE INSTALLATION OF FIREHOUSE HAZARD IDENTIFICATION BEACONS (TO BE MAINTAINED BY HOWARD COUNTY) AND PUSHBUTTONS FOR THE NEW FIREHOUSE. THE INTERSECTION AFFECTED IS US 1 (WASHINGTON BLVD.) AND HOWARD STREET /CORRIDOR RD. IN HOWARD COUNTY. US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE FULL-TRAFFIC-ACTIVATED MODE WITH EXCLUSIVE LEFT TURN PHASING FOR BOTH NORTH AND SOUTHBOUND MOVEMENTS OF US 1. THE US 1 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE HOWARD ST./CORRIDOR RD. MOVEMENTS OPERATE CONCURRENTLY. PRE-EMPTION WILL BE PROVIDED FOR THE WESTBOUND CORRIDOR ROAD APPROACH.

SPECIAL NOTES

- FIREHOUSE INTERNAL WIRING, CONDUITS AND PUSHBUTTONS WILL BE INSTALLED AS PART OF THE BUILDING SITE PROJECT PLANS.
- ALL INTERNAL WIRING COMPLETED IN THE CONTROLLER SHALL BE INSTALLED BY THE SHA SIGNAL SHOP. CALL ED RODENHIZER AT LEAST 48 HOURS IN ADVANCE.

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 EA	ELECTRICAL HANDHOLE
450 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
70 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
300 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
800 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 12 A.W.G.)
1 EA	VIDEO DETECTION CAMERA AND LEAD-IN CABLE
LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
2 EA	12 INCH LED SIGNAL HEAD SECTION
4 EA	12 INCH OPTICALLY PROGRAMMED LED SIGNAL HEAD SECTION
1 CY	CONCRETE FOUNDATION FOR SIGNAL
1 EA	20 FT. BREAKAWAY PEDESTAL POLE
1 EA	ADJUST EXISTING HANDHOLE TO GRADE
1 CY	TEST PIT EXCAVATION
25 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
1 EA	3/4 IN. X 10 FT. GROUND ROD
1 EA	W11-8 (48" X 48") SIGN - POLE MOUNT
1 EA	W96-7(1) MOD. (60" X 54") SIGN - POLE MOUNT
1 EA	R3-5R (30" X 36") SIGN - SPAN WIRE MOUNT
2 EA	PUSHBUTTON FOR FIREHOUSE PRE-EMPTION AND SIGN (9" X 6")

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 7 ARE AS FOLLOWS:

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 624-8140 / 8141

MR. RAYMOND F. JOHNSON
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 624-8105 / 8106

MS. ANDREA ABEND
UTILITY ENGINEER
(301) 624-8115 / 8116

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

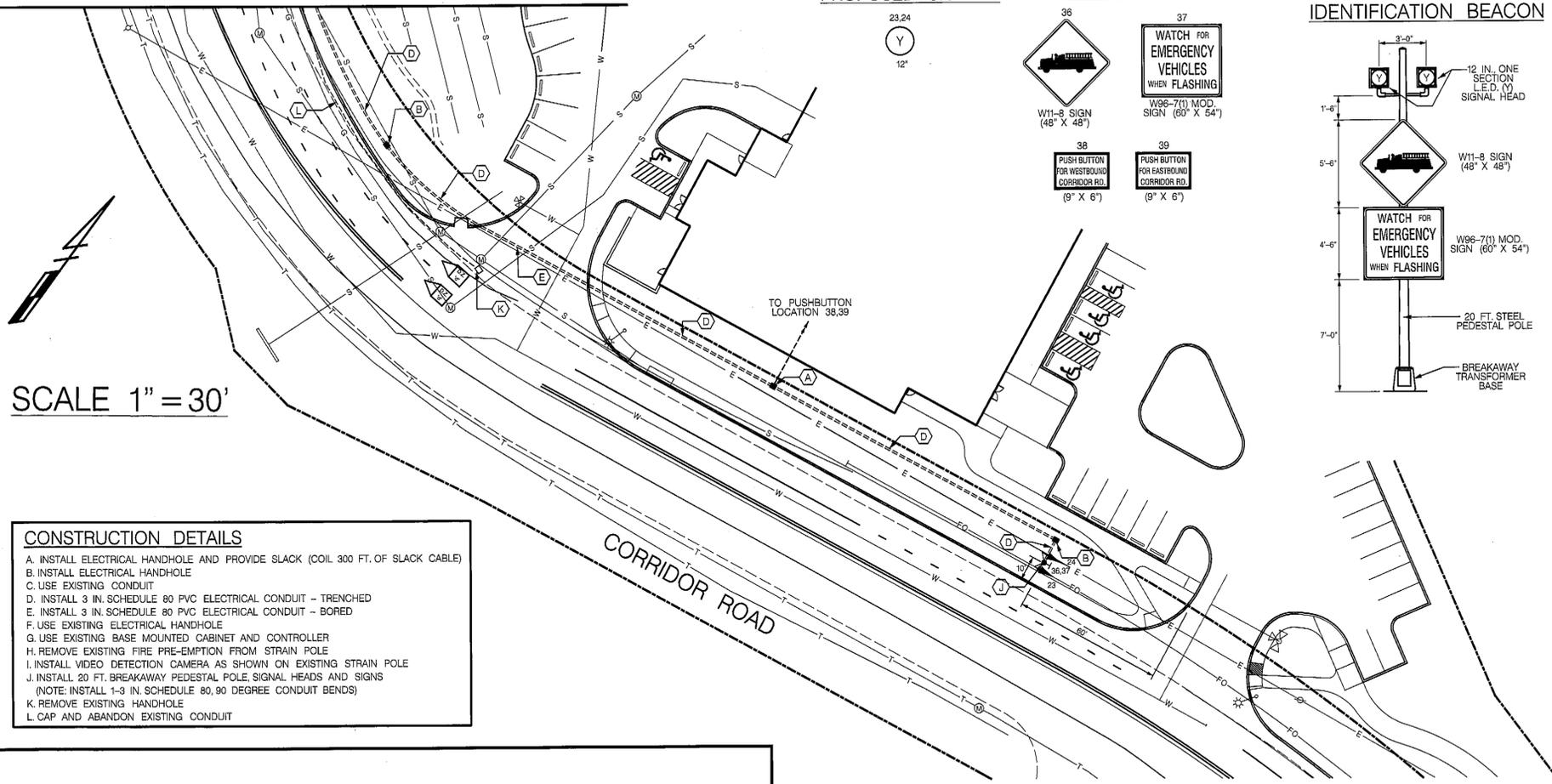
MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

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

CONTACT FOR HOWARD COUNTY

MRS. DIANE SCHWARZMAN
CHIEF, TRAFFIC ENGINEERING DIVISION
(410) 313-5755

MATCHLINE - SEE SIGNAL SHEET

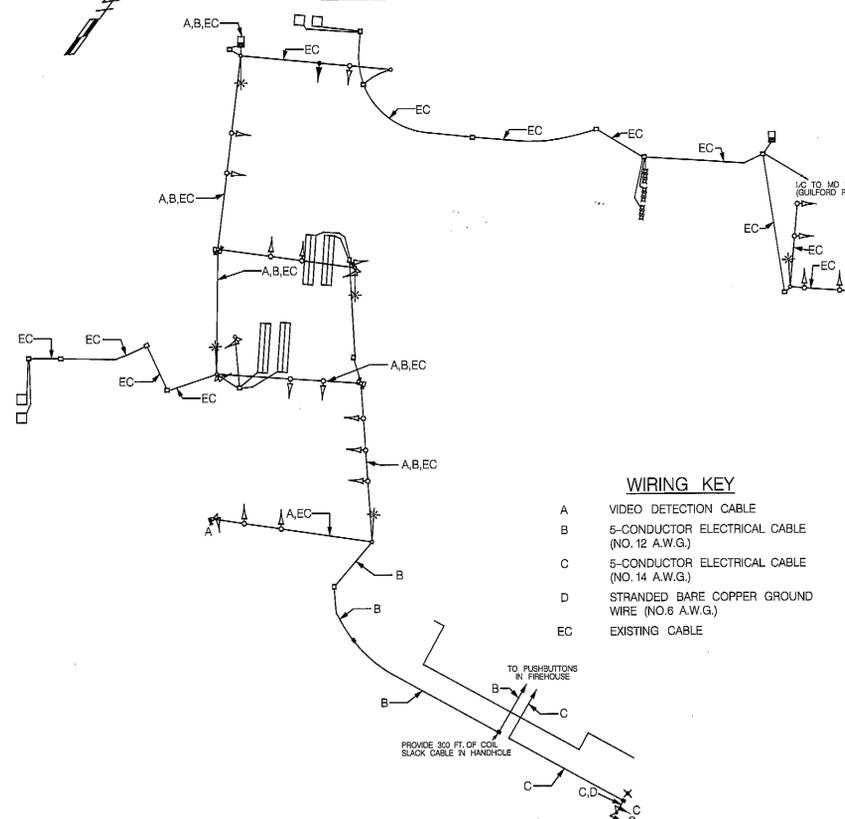


SCALE 1" = 30'

CONSTRUCTION DETAILS

- INSTALL ELECTRICAL HANDHOLE AND PROVIDE SLACK (COIL 300 FT. OF SLACK CABLE)
- INSTALL ELECTRICAL HANDHOLE
- USE EXISTING CONDUIT
- INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED
- INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED
- USE EXISTING ELECTRICAL HANDHOLE
- USE EXISTING BASE MOUNTED CABINET AND CONTROLLER
- REMOVE EXISTING FIRE PRE-EMPTION FROM STRAIN POLE
- INSTALL VIDEO DETECTION CAMERA AS SHOWN ON EXISTING STRAIN POLE (NOTE: INSTALL 1-3 IN SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
- REMOVE EXISTING HANDHOLE
- CAP AND ABANDON EXISTING CONDUIT

WIRING DIAGRAM



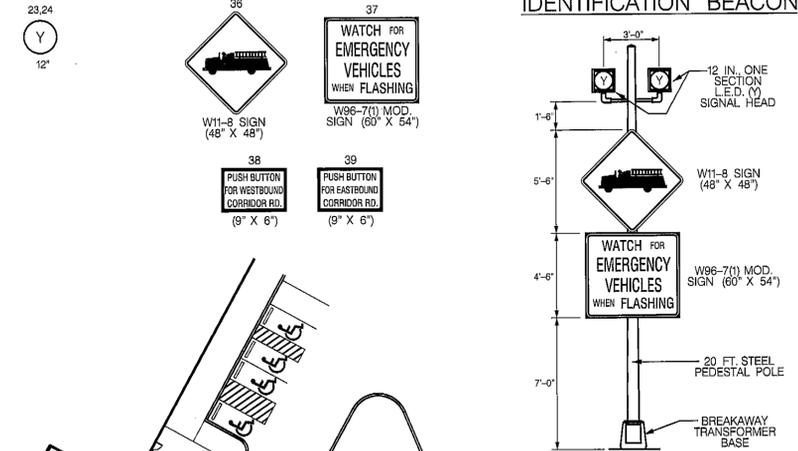
WIRING KEY

- A VIDEO DETECTION CABLE
- B 5-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- C 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- D STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EC EXISTING CABLE

PROPOSED SIGNALS

PROPOSED SIGNS

TYPICAL HAZARD IDENTIFICATION BEACON



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	14	15	16	17	18	19	20	21	22	23-24
PHASE 1 & 5	G	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
1 & 5 CHANGE	G	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
PHASE 1 & 6	G	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
1 CHANGE	G	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
PHASE 2 & 5	R	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
5 CHANGE	R	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
PHASE 2 & 6	R	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
2 & 6 CHANGE	R	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
PHASE 4 & 8	R	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
4 & 8 CHANGE	R	R	R	R	G	R	R	R	R	G	R	R	R	G	R	R	R	R	G	R	DARK
FLASHING OPERATION	FLR	FLR	FLY	FLY	FLR	FLR	FLY	FLY	FLR	FLR	FLY	FLY	FLR	DARK							
FIREHOUSE PRE-EMPTION 'A'	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FLY
PRE-EMPTION CLEARANCE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FLY
FIREHOUSE PRE-EMPTION 'B'																					FLY

BW505M83
US 1 @ Howard Street/Corridor Rd

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
US 1 (WASHINGTON BOULEVARD) AT
HOWARD STREET /CORRIDOR ROAD
SAVAGE, MARYLAND

GENERAL INFORMATION PLAN

SCALE	NONE	DATE	11-1-2010	CONTRACT NO.	BW996M82
DESIGNED BY	T. ZAYDEL	COUNTY	HOWARD		
DRAWN BY	J.K. SCHMID	LOGMILE	13000102.60		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	K-993		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS-1665 H GI	SHEET NO.	2	OF	2