PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES A NEW INSTALLATION OF A FIREHOUSE OPTICOM TRAFFIC CONTROL SIGNAL LOCATED ON MD 20 AT ROCK HALL FIRE HOUSE. HAZARD IDENTIFCATION BEACONS WILL BE INSTALLED IN ADVANCE OF THE ROCK HALL FIRE HOUSE ON WESTBOUND MD20 IN KENT COUNTY.

MD 20 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE HAZARD IDENTIFICATION BEACON OPERATES IN A PRE-EMPTION MODE.

A. EQUIPMENT TO BE SUPPLIED BY THE STATE OF MARYLAND.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9012	1	EA	[UPDATED] 2 CIRCUIT FLASHER
9044	1	EA	[UPDATED] CONTROLLER CABINET, SIZE 6
9571	66	SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN
	1	EA	W11-8 36" X 36"
	1	EA	R3-9B 36" X 48"
	1	EA	W96-7(1) 120" X 54"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
2002	2	CY	TEST PIT EXCAVATION
8001	2	EA	12 INCH LED SIGNAL HEAD SECTION Y
8016	1	EA	MAST ARM POLE AND 38 FOOT MAST ARM ANY T DIMENSION
8019	1	EA	MAST ARM POLE AND 50 FOOT MAST ARM ANY T DIMENSION
8034	700	LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8035	165	LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8036	16	LF	WOOD SIGN SUPPORTS UP TO 4 X 6 INCHES
8038	66	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN INCLUDING ALL HARDWARE
8040	900	LF	NO 6 AWG STRANDED BARE COPPER GROUND WIRE
8042	1	EA	METERED SERVICE PEDESTAL EMBEDDED
8044	85	LF	ELECTRICAL CABLE 1 CONDUCTOR NO 4 AWG - THHN / THWN
8046	6	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8048	2	EA	OPTICOM EMITTER SYSTEM 700 SERIES
8049	1	EA	OPTICOM NO 721 DETECTOR EYE
8050	820	LF	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM CABLE
8055	24	LF	ELECTRICAL CABLE - 5 CONDUCTOR NO 14 AWG
8056	220	LF	ELECTRICAL CABLE - 7 CONDUCTOR NO 14 AWG
8064	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

PROJECT CONTACTS

THE CONTACT PERSONS ARE AS FOLLOWS:

Mr. Robert Kiel
Assistant District Engineer - Traffic
Phone: (410) 810-3240

Mr. Terry Wright
Assistant District Engineer - Maintenance
Phone: (410) 810-3250

Mr. Barry Clothier
Assistant District Engineer - Utility
Phone: (410) 810-3274

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Sonny Bailey
Sign Shop
410-787-7670

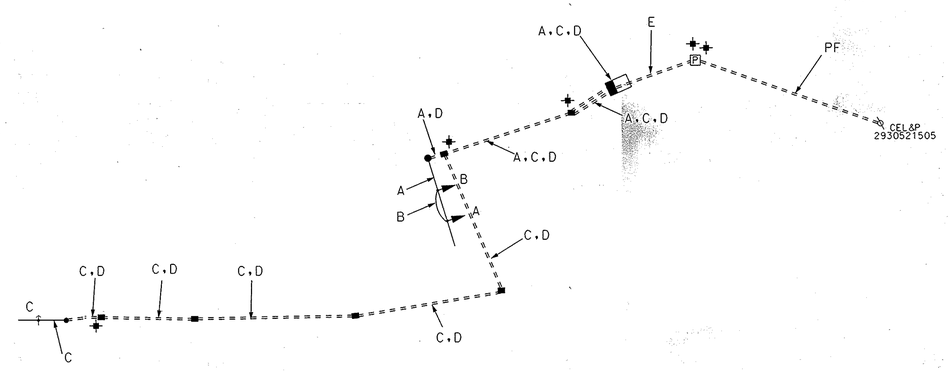
Mr. Ed Rodenhizer
Signal Shop
410-787-7652

PHASE CHART

PHASE CHART

	1	2	
	Y	Y	
NORMAL OPERATION Phases 6	DARK	DARK	←
Pre - Emption mode	FL/Y	FL/Y	← —

WIRING DIAGRAM



WIRING KEY

A - 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

B - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

C - 4 CONDUCTOR OPTICOM CABLE

D - STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

⏚ - GROUND ROD

PF - PROPOSED UNDERGROUND SERVICE BY CONECTIV

E - POWER SERVICE UNDERGROUND 2 RUN 1 CONDUCTOR (NO. 4 AWG)

BAI
BRUDIS & ASSOCIATES, INC.
CONSULTING ENGINEERS
9220 RUMSEY ROAD SUITE 110
COLUMBIA, MARYLAND 21045
410-884-3607 410-884-3609(FAX)

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

MD 20 AT ROCK HALL FIRE HOUSE H.I.B.

SCALE N.T.S. DATE 05/29/2007 CONTRACT NO. AT9095185

DESIGNED BY M. A. MEARS
DRAWN BY M. A. MEARS
CHECKED BY RJM
F.A.P. NO.

COUNTY KENT
LOGMILE 14002001.78
T.I.M.S. NO. 1082
TOD NO.

DRAWING NO. TS NO.: 458562 OF 2 SHEET NO. OF

PLOTTED: $DATETIME$
FILE: $FILE$

BY: $USERNAME$