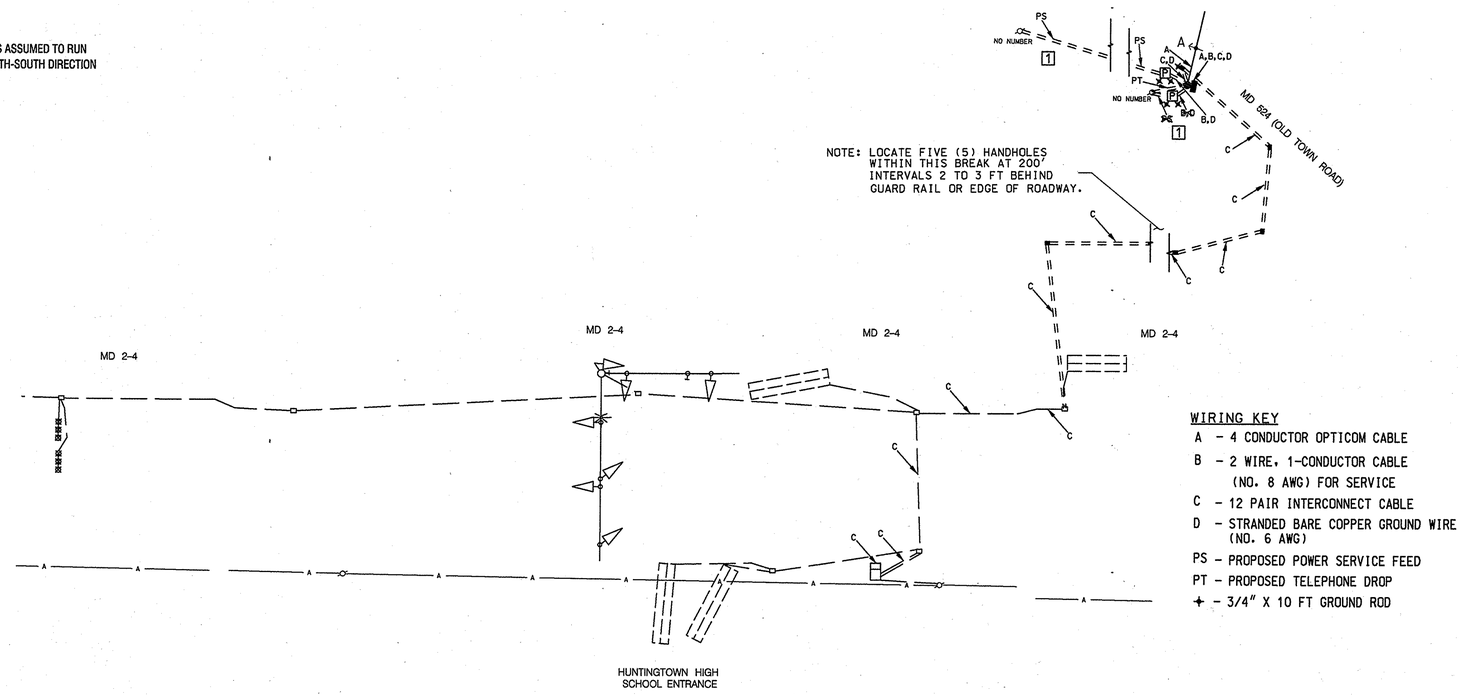
WIRING DIAGRAM

MD 2-4 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION



NOTE: LOCATE FIVE (5) HANDHOLES WITHIN THIS BREAK AT 200' INTERVALS 2 TO 3 FT BEHIND GUARD RAIL OR EDGE OF ROADWAY.

WIRING KEY

A - 4 CONDUCTOR OPTICOM CABLE
B - 2 WIRE, 1-CONDUCTOR CABLE (NO. 8 AWG) FOR SERVICE
C - 12 PAIR INTERCONNECT CABLE
D - STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
PS - PROPOSED POWER SERVICE FEED
PT - PROPOSED TELEPHONE DROP
✦ - 3/4" X 10 FT GROUND ROD

PHASING SEQUENCE CHART

	1 (R Y G)	2 (R Y G)	3 (R Y G)	4 (R Y G)	5 (R Y G)	6 (R Y G)	7 (R Y G)
PHASE 2	G	G	R	R	R	R	R
2 CHANGE	Y	Y	R	R	R	R	R
PHASE 3	R	R	◁G–	G	G	R	R
3 CHANGE	R	R	◁Y–	Y	Y	R	R
PHASE 4	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R

EMERGENCY VEHICLE PREEMPTION

EMERGENCY VEHICLE PREEMPTION PHASE 3	R	R	◁G–	G	G	R	R
PREEMPTION CLEARANCE	R	R	◁Y–	Y	Y	R	R
PHASE 4 NORMAL OPERATION	R	R	R	R	R	G	G

PROJECT DESCRIPTION

1. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF EMERGENCY VEHICLE PREEMPTION AT THE INTERSECTION OF MD 2-4 AT ITS INTERSECTION WITH THE ENTRANCE OF HUNTINGTOWN HIGH SCHOOL IN CALVERT COUNTY.

AN OPTICOM DETECTOR EYE WILL BE LOCATED AT THE INTERSECTION OF MD 2-4 AT MD 524 (OLD TOWN ROAD)/SCARLET DRIVE. THE DETECTOR EYE WILL BE CONNECTED TO THE EXISTING CONTROLLER AT MD 2-4/HUNTINGTOWN HIGH SCHOOL VIA A SPECIAL RELAY PACKAGE OVER A NEW INTERCONNECT CABLE TO BE INSTALLED BETWEEN THE TWO INTERSECTIONS.

THE NORTHBOUND AND WESTBOUND APPROACH MOVEMENTS WILL BE STOPPED. THE SOUTHBOUND APPROACH IS CONTINUOUS FLOW.

MD 2-4 RUNS IN A NORTH-SOUTH DIRECTION.

2. OPERATION

THE OPTICOM DETECTOR WILL PROVIDE EMERGENCY VEHICLE PREEMPTION.

PROJECT CONTACTS

MR. GREG WELKER
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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CHIEF,
SIGNAL OPERATIONS SECTION
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MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
PHONE: 410-787-7631

EQUIPMENT LIST "A"

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9003	1 EA	RELAY (110/120 VOLT) 11 PIN
9014	1 EA	27 FOOT STEEL POLE WITH SINGLE 38 FOOT MAST ARM
9037	1 EA	CONTROLLER CABINET, TYPE "G" POLE MOUNT
9042	1 EA	CONTROLLER ASC II WITH TELEMETRY

EQUIPMENT LIST "B"

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	3 CY	CLASS 3 EXCAVATION
2002	1 CY	TEST PIT EXCAVATION
8005	1 EA	3M OPTICOM DISCRIMINATOR MODULE, 4 CHANNEL #764
8013	1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL
8017	1 EA	REMOVE AND DISPOSE MATERIAL PER ASSIGNMENT

EQUIPMENT LIST "B" (CONTD.)

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
8021	40 LF	4 CONDUCTOR OPTICOM DETECTOR CABLE.
8024	70 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" - BORED
		70 FT 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED
8026	[1] 1557 ~~1270~~ LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" - TRENCHED
	[1] 1513 ~~1240~~ FT	4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
	[1] 44 ~~30~~ FT	2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	[1] 35 ~~40~~ LF	NO. 6 STRANDED BARE COPPER GROUND WIRE
8039	[1] 70 ~~45~~ LF	ELECTRICAL CABLE (1 CONDUCTOR, NO. 8 AWG - THHN/THWN)
8044	10 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8048	1 EA	OPTICOM #721 DETECTOR EYE.
8050	1605 LF	12 PAIR COMMUNICATION CABLE - JELLY FILLED, UNDERGROUND

EQUIPMENT LIST "B" (CONTD.)

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
8056	2 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8064	1 EA	INSTALL 27 FT STEEL POLE (CUT TO 21 FEET) WITH 38 FOOT MAST ARM (CUT TO 28 FEET).
8068	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNTED

[1] TEDD APPROVAL RED-LINE #1 8/15/2007

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

MD 2/4 AT HUNTINGTOWN HIGH SCHOOL

INSTALLATION OF OPTICOM EMERGENCY VEHICLE PREEMPTION

GENERAL INFORMATION

SCALE N.T.S. DATE 5/2007 CONTRACT NO. AT9365185

DESIGNED BY H. DONG
DRAWN BY A. POWELL
CHECKED BY
FAP NO.

COUNTY CALVERT
LOGMILE 04000224.63
TIMS NO. I257
TOD NO.

TS NO. 4188A | DRAWING TS - 1 OF 1 | SHEET NO. 2 OF 2

BY: wstroud

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