PROJECT DESCRIPTION

GENERAL:

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC SIGNAL AT MD 177 (MOUNTAIN ROAD) AND ELIZABETH/MAGOTHY BEACH ROADS IN ANNE ARUNDEL COUNTY. AN AUDIBLE COUNTDOWN PEDESTRIAN MOVEMENT SHALL BE INSTALLED TO CROSS THE EAST-LEG OF THE INTERSECTION. ADA COMPLIANT PEDESTRIAN RAMPS SHALL BE INSTALLED. MD 177 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION:

THE INTERSECTION OPERATES IN A FOUR PHASE, FULL-ACTUATED MODE WITH THE MD 177 APPROACHES RUNNING CONCURRENTLY AND THE ELIZABETH/ MAGOTHY BEACH ROADS APPROACHES RUNNING CONCURRENTLY. A PUSHBUTTON ACTIVATED AUDIBLE PEDESTRIAN PHASE SHALL BE PROVIDED ACROSS THE EAST LEG OF MD 177.

PROJECT CONTACTS

THE CONTACT PERSONS FOR THE SHA ARE AS FOLLOWS:

MRS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: (410) 842-1003

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

MR. ANDRE' FUTRELL
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: (410) 841-1002

MR. JOHN S. MAYS
DISTRICT UTILITY ENGINEER
PHONE: (410) 841-1039

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652

MR. JAMES FOLDEN
DISTRICT CONSTRUCTION ENGINEER
PHONE: (410) 841-1031

EQUIPMENT LIST "A"

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

ITEM NO.	QUANTITY	DESCRIPTION
9001	2 SF	SHEET ALUMINIUM SIGNS MAST ARM/POLE MOUNTED
	2 EA	R10-4 (1) MOD 9"x12" PUSH BUTTON TO CROSS "MOUNTAIN ROAD"

EQUIPMENT LIST "B"

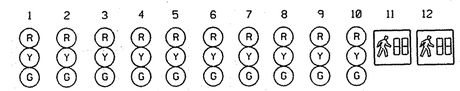
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2001	.5 CY	CLASS 2 EXCAVATION
2002	1 CY	TEST PIT EXCAVATION
5003	240 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5004	30 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5005	35 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LANE MARKINGS - ANY WIDTH
6002	36 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6003	151 SF	4" CONCRETE SIDEWALK
8006	1 EA	2 WIRE CENTRAL CONTROL UNIT
8014	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
8015	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8024	2 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8028	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8037	20 LF	DETECTABLE WARNING SURFACES
8040	1 CY	CONCRETE FOR SIGNAL FOUNDATION
8043	140 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8049	10 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8064	2 SF	INSTALL OVERHEAD SIGN
8070	1 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8076	315 LF	ELECTRTICAL CABLE 2 - CONDUCTOR (NO 14 AWG)
8078	325 LF	ELECTRTICAL CABLE 5 - CONDUCTOR (NO 14 AWG)

EQUIPMENT LIST "C"

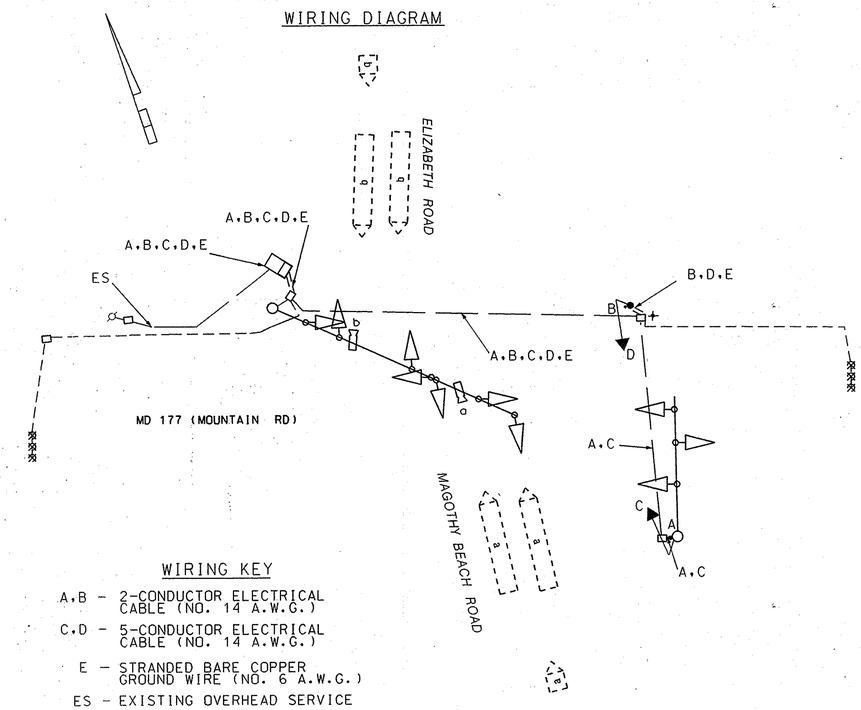
ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR, THE REMOVAL OF GROUND MOUNTED INCLUSIVE.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 4 & ALT 8	R	R	R	R	R	R	G	G	G	G	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW
4 & ALT 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A,B - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C,D - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

E - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

ES - EXISTING OVERHEAD SERVICE

GROUND ROD (3/4" DIAMETER X 10' LENGTH)

TOD NO: AT782-63
SHA No.: AA445A58/B58
MD 177 @ Elizabeth/Magothy Beach Rd

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031
Phone: (410) 823-8070 Fax: (410) 823-2184

REVISION 'A' 25003.28

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

GENERAL INFORMATION SHEET
MD 177 (MOUNTAIN ROAD) AND
ELIZABETH ROAD/ MAGOTHY BEACH ROAD
JACOBSVILLE, MARYLAND

SCALE NONE DATE 12-05-2006 CONTRACT NO. AT782B185

DESIGNED BY DLA
DRAWN BY DLA
CHECKED BY TH
FAP NO. AC-NHG-STPG-000A (207)E

COUNTY ANNE ARUNDEL
LOGMILE 02017704.51
TIMS NO. H382
TOD NO. 3225C

TS NO. 4077.B | DRAWING - 2 OF 2 | SHEET NO. 2 OF 2

PLOTTED: $DATETIME$
FILE: $FILE$

BY: $USERNAME$