

PROJECT DESCRIPTION

I. GENERAL:

THE PROJECT INCLUDES SAFETY IMPROVEMENTS ALONG THE CORRIDOR AND RESURFACING OF THE ROADWAY. THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING MD132 (W. BEL AIR AVENUE) AND MD 462 (PARADISE ROAD) INTERSECTION IN HARFORD COUNTY.

MD 132 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION OPERATES IN A NEMA FOUR PHASE, FULL-ACTUATED MODE. MD 132 THROUGH MOVEMENTS OPERATE CONCURRENTLY. PARADISE ROAD OPERATES ALONE. A COUNTDOWN/AUDIBLE PEDESTRIAN PUSHBUTTON MOVEMENT SHALL BE PROVIDED TO CROSS THE EAST LEG OF MD 132. THE EXISTING DETECTION SHALL BE REPLACED IN KIND.

III. CONTROLLER INFORMATION:

THE EXISTING NEMA CONTROLLER WITH EQUIPMENT HOUSED IN A POLE-MOUNTED CABINET SHALL BE MODIFIED FOR THE PEDESTRIAN MOVEMENT.

THE CONTRACTOR SHALL PURCHASE AND DELIVER THE "APS" 2-WIRE CENTRAL CONTROL UNIT FOR THE CONTROLLER TO THE SHA SIGNAL SHOP. (SEE GENERAL NOTE 7 ON SIGNAL PLAN)

*** ALUMINUM SHEET SIGNS BREAKDOWN ***

FURNISHED AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
801605	1 EA	R5-1 "DO NOT ENTER" (30"x30")
	2 EA	R10-4(1) "PUSHBUTTON TO CROSS W. Bel Air Ave" (9"x15")

PROJECT CONTACTS:

THE CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 410-321-2781/2885

ASSISTANT DISTRICT ENGINEER-CONSTRUCTION
PHONE: 410-321-2821

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 410-321-2761

MS. SUENETTE POPE
DISTRICT UTILITY ENGINEER
PHONE: 410-321-2841

THE CONTACT PERSONS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATION SECTION
PHONE: 410-787-7652

MR. ROBERT SNYDER
ASST. CHIEF, TRAFFIC OPERATION DIVISION
PHONE: 410-787-7631

MR. DERRICK DICKERSON
TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
PHONE: 410-787-5856

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND SUPPLIED BY THE CONTRACTOR.

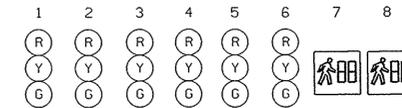
CATEGORY CODE	QUANTITY	DESCRIPTION
203030	1 CY	TEST PIT EXCAVATION
801004	2 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	160 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	32 LF	3" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
805145	30 LF	4" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
805155	125 LF	4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
811001	2 EA	ELECTRICAL HANDHOLE
* 801605	9 SF	SHEET ALUMINUM SIGN
821003	2 EA	BREAKAWAY BASE SUPPORT SYSTEM FOR TRAFFIC SIGNAL STRUCTURE
837001	1 EA	GROUND ROD 3/4 "DIA. X 10' LENGTH
800000	1 EA	2 WIRE NAVIGATOR CENTRAL CONTROL UNIT
800000	2 EA	AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN
800000	2 EA	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
810550	4 EA	MICRO LOOP PROBE WITH 500' LEAD -IN CABLE
861105	210 LF	ELECTRICAL CABLE 2- CONDUCTOR NO. 14 AWG
861107	230 LF	ELECTRICAL CABLE 5- CONDUCTOR NO. 14
861104	350 LF	ELECTRICAL CABLE 2- CONDUCTOR NO. 14 ALUMINUM SHIELDED
862102	620 LF	SAWCUT FOR SIGNAL LOOP DETECTOR
862101	1950 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING
818004	2 EA	10' BREAKAWAY PEDESTAL POLE
805160	48 LF	1" LIQUID TIGHT NON-METALLIC FLEX TUBING FOR DETECTOR SLEEVE
801711	7 SF	REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORTS
801104	16 LF	4"x4" WOOD SIGN SUPPORT POST
802145	1 EA	ADJUST FRAME AND COVER ON EXISTING HANDHOLE
800000	LS	REMOVE AND DISPOSE EXISTING MATERIAL AND EQUIPMENT

EQUIPMENT LIST "C"

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

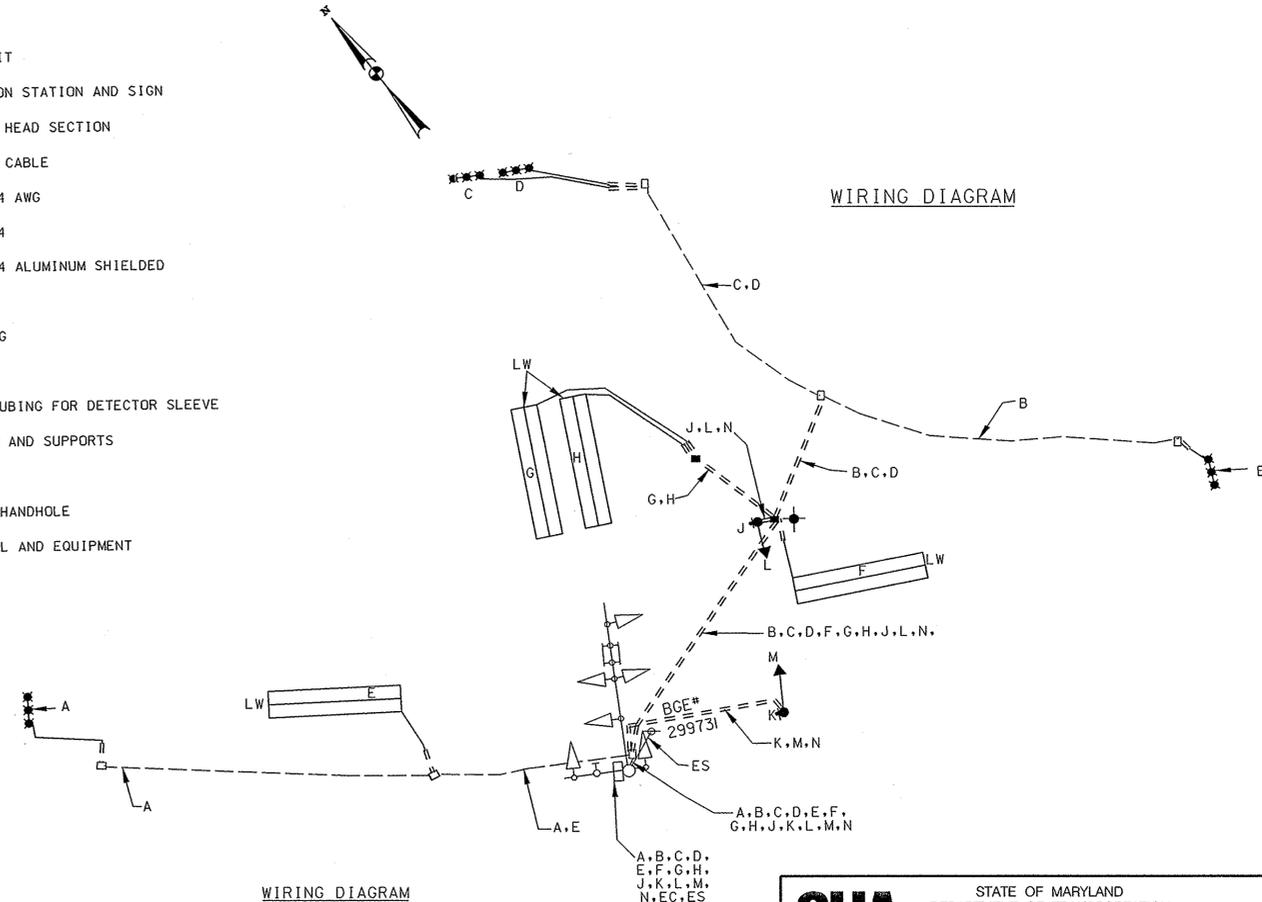
1 REDLINE REVISION
7/27/2007
NEW SHEET

PHASE CHART



	1	2	3	4	5	6	7	8	
Phase 2 & 6	G	G	G	G	R	R	DW	DW	←
2 & 6 Change	Y	Y	Y	Y	R	R	DW	DW	→
Phase 4	R	R	R	R	G	G	DW	DW	↓
4 Change	R	R	R	R	Y	Y	DW	DW	↓
ALT Phase 4	R	R	R	R	G	G	WK	WK	↓
PED CLEARANCE	R	R	R	R	G	G	FL/DW	FL/DW	↓
ALT Phase 4 Change	R	R	R	R	Y	Y	DW	DW	↓
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	↔

WIRING DIAGRAM



WIRING DIAGRAM

- A,B,C,D - MICROLOOP PROBE SET WITH 500' LEAD-IN TO CONTROLLER
- E,F,G,H - ELECTRICAL CABLE 2- CONDUCTOR NO. 14 AWG ALUMINUM SHIELDED
- J,K - ELECTRICAL CABLE 2- CONDUCTOR NO. 14 AWG FOR PUSHBUTTONS
- L,M - ELECTRICAL CABLE 5- CONDUCTOR NO. 14 AWG FOR PEDESTRIAN HEADS
- N - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- LW - LOOP WIRE NO.14 AWG
- EC - EXISTING INTERSECTION CABLES
- ES - EXISTING OVERHEAD SERVICE
- ⚡ - GROUND ROD 3/4" DIA. x10' LENGTH

MM CENTURY
ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVISION 'B' 26086.01

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 132 (W. BEL AIR AVE) AT
MD 462 (PARADISE RD.)
IN ABERDEEN, MD

GENERAL INFORMATION SHEET

SCALE NONE DATE 7/27/07 CONTRACT NO. HA4565177

DESIGNED BY EMM COUNTY HARFORD
DRAWN BY EMM LOGMILE 12013201.16
CHECKED BY TMH TMS NO. I-299
FAP NO. TOD NO.

TS NO. 1641 B DRAWING - 2 OF 2 SHEET NO. 46C OF 60

BY: emilesky