PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF A TRAFFIC SIGNAL WITH INTERCONNECT AT THE INTERSECTION OF MD 528 AND 132rd STREET IN WORCHESTER COUNTY.

INTERSECTION OPERATION

A CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. VIDEO DETECTION SHALL BE INSTALLED FOR ACTUATION OF MD 528 LEFT TURN MOVEMENTS AND 123RD STREET SIDE STREET PRESENCE DETECTION.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
GENE COFIELL, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 677-4040
RAVINDRA GANVIR, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 677-4020
JAMES R.WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 677-4010
BRUCE W. POOLE, UTILITY ENGINEER
PHONE: (410) 677-4082

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9044	CONTROLLER CABINET, SIZE 6 W/ VIDEO INTERFACE EQUIPMENT, 1-4 CAMERA	EA	1
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS CONSISTING OF:	SF	60
	R10-12 (30"X36") MAST ARM MOUNT	EA	2
	R3-17(MOD) (30"x36") MAST ARM MOUNT	EA	2
	D-3(2) (16" X VAR.) MAST ARM MOUNT	EA	2

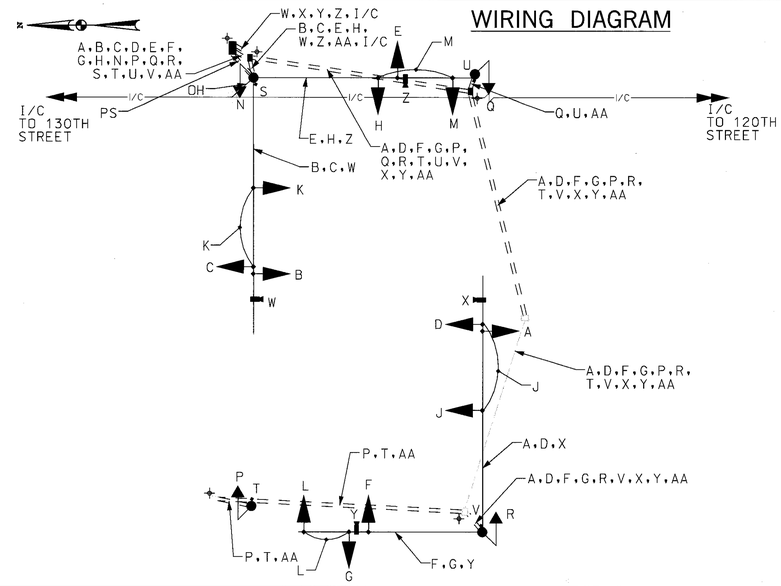
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENACE OF TRAFFIC	EA	3
2001	CLASS II EXCAVATION	CY	15
2002	TEST PIT EXCAVATION	CY	3
6002	STANDARD TYPE A COMBINATION CURB & GUTTER 12 IN. GUTTER PAN 8 IN. DEPTH	LF	40
6004	4 IN. CONCRETE SIDEWALK	SF	204
8001	CONCRETE FOUNDATION	CY	13
8007	CONTROL CABLE, 100 FOOT, VIDEO DETECTION	EA	1
8008	CONTROL CABLE, 200 FOOT, VIDEO DETECTION	EA	1
8009	CONTROL CABLE, 300 FOOT, VIDEO DETECTION	EA	1
8010	CONTROL CABLE, 400 FOOT, VIDEO DETECTION	EA	1
8020	PED POLE (ANY SIZE)	EA	2
8021	REM & DISPOSE MAT & EQUIP PER ASSIGN	EA	1
8022	REMOVE CONCRETE FOUNDATION 12 INCHES	EA	5
8029	DETECTABLE WARNING SURFACES	SF	8
8033	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	320
8040	2 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	10
8041	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	40
8042	4 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	20
8044	4 INCH SCHED. 80 PVC CONDUIT-SLOTTED	LF	210
8054	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	2
8057	INSTALL OVERHEAD SIGN	SF	60
8058	VIDEO DETECTION CAMERA	EA	4
8067	STEEL POLE WITH TWIN 50 FOOT AND 70 FOOT MAST ARMS	EA	2
8069	12-PAIR COMMUNICATION CABLE, SELF SUPPORTING (OVERHEAD)	LF	4300
8076	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	5
8077	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	6
8078	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	38
8081	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STURCTURE	EA	2
8084	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	620
8086	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	750
8087	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1520
8091	PUSHBUTTON AND SIGN	EA	4
8096	INSTALL CONTROLLER AND CABINET-POLE MOUNT	EA	1
8097	INSTALL CONTROLLER AND CABINET-BASE MOUNT	EA	1
8099A	LED COUNTDOWN PEDESTRIAN SIGNAL HEAD	EA	4
NEG.	SAWCUT	LF	40

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	CONTROLLER	EA	1

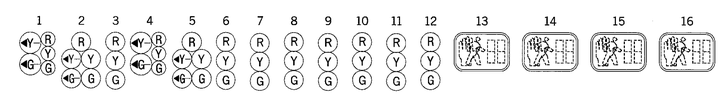
WIRING DIAGRAM



KEY

A B C D E F G H	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
J K L M N P Q R	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
S T U V	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
W X Y Z	VIDEO DETECTION CABLE
AA	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
PS	POWER SERVICE UNDERGROUND
OH	POWER SERVICE OVERHEAD (BY OTHERS)
+	GROUND ROD
I/C	12 PAIR SELF SUPPORTING INTERCONNECT CABLE (OVERHEAD)

PHASE CHART



PHASE 1 AND 5	←G/R	←G/R	R	←G/R	←G/R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																
PHASE 1 AND 6	R	R	R	←G/G	←G/G	G	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 6 CHANGE	R	R	R	←Y/G	←Y/G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	←G/G	←G/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
2 AND 5 CHANGE	←Y/G	←Y/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 AND 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	W/K	W/K	W/K	W/K
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW
4 AND 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

SHA#: W0421A3010030 TOD#: AT355-08

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 528 & 123RD STREET (OCEAN CITY)

GENERAL INFORMATION PLAN

SCALE 1"=20' DATE 11/01/04 CONTRACT NO. AT3555158

DESIGNED BY C.FLEMING
DRAWN BY C.FLEMING
CHECKED BY J.WEAVER
F.A.P. NO.
COUNTY WORCHESTER
LOGMILE 23052801.61
T.I.M.S. NO. G224
TOD NO.

DRAWING NO. TS-2065B

SHEET NO. 2 OF 2

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
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PLOTTED: THURSDAY, NOVEMBER 11, 2004 AT 01:47 PM
FILE: R:\2002\12 2001-12C\TASK 20\DWG\PSG-N201_0224.DGN

BORDER REV: DATE: June 1, 2004

DRILL HOLES

BY:CFLEMING