PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 28 (KEY WEST) AND DIAMONDBACK DRIVE/BROSCHART ROAD IN MONTGOMERY COUNTY, MARYLAND. MD 28 IS ASSUMED TO RUN IN A EAST/WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX (6) PHASE, SEMI-TRAFFIC-ACTUATED MODE. EXCLUSIVE LEFT TURN PHASE IS PROVIDED FOR THE WESTBOUND MOVEMENT OF MD 28. THE MD 28 THROUGH MOVEMENTS OPERATE CONCURRENTLY WITH A CONCURRENT PEDESTRIAN MOVEMENT ACROSS THE NORTH AND SOUTH LEGS OF THE INTERSECTION. THE SIDE STREET, WILL BE SPLIT PHASED WITH MODIFICATION OF THIS SIGNAL. AN ACTUATED PEDESTRIAN MOVEMENT CROSSES THE WEST LEG OF THE INTERSECTION AND WILL RUN CONCURRENTLY WITH THE DIAMONDBACK DRIVE MOVEMENT.

CONTROLLER REQUIREMENTS

USE EXISTING BASE MOUNTED CONTROLLER ASSEMBLY.

SPECIAL NOTES

1. ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATE D IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE FIELD IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOVLED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE SO THAT SHA FORCES CAN MAKE THE FINAL CONNECTIONS. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED. CONTACT THE TRAFFIC SIGNAL OPERATIONS SUPERVISOR AT LEAST 72 HOURS PRIOR TO INSTALLATION.
3. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT IN DISTRICT #3 ARE AS FOLLOWS:

MR. BRIAN YOUNG
DISTRICT ENGINEER - #3
PHONE: (301) 513-7311

MR. CEDRIC WARD
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358

MR. KEVIN NOWAK
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 513-7338

MR. VERNON STINNETT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. RICHARD DAFF, SR.
CHIEF TRAFFIC SIGNAL OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. ROBERT RICKETTS
SIGNAL SHOP (MONTGOMERY COUNTY)
PHONE: (301) 674-8855

MR. KAMAL HAMUD
MONTGOMERY COUNTY TMC CENTER
PHONE: (240) 777-8761

MR. SONNY BAILEY
CHIEF SIGN SHOP
PHONE: (410) 787-7670

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY STATE HIGHWAY ADMINISTRATION

NONE

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

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
120500	MAINTENANCE OF TRAFFIC	LS	1
565627	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	SF	28
801605	SHEET ALUMINUM SIGNS	SF	24
	1 EACH R3-5 (L) (30" x 36") SPAN WIRE (LEFT ONLY)		
	1 EACH R3-5 (R) (30" x 36") SPAN WIRE (RIGHT ONLY)		
	1 EACH R10-12 (30" x 36") SPAN WIRE (SHARED THRU/RIGHT)		
850284	12" VEHICULAR SIGNAL HEAD SECTION (L.E.D.)	EA	26
861108	ELECTRICAL CABLE - 7 CONDUCTOR (No. 14 AWG)	LF	950
873001	REMOVE AND SALVAGE EXISTING EQUIPMENT	LS	1

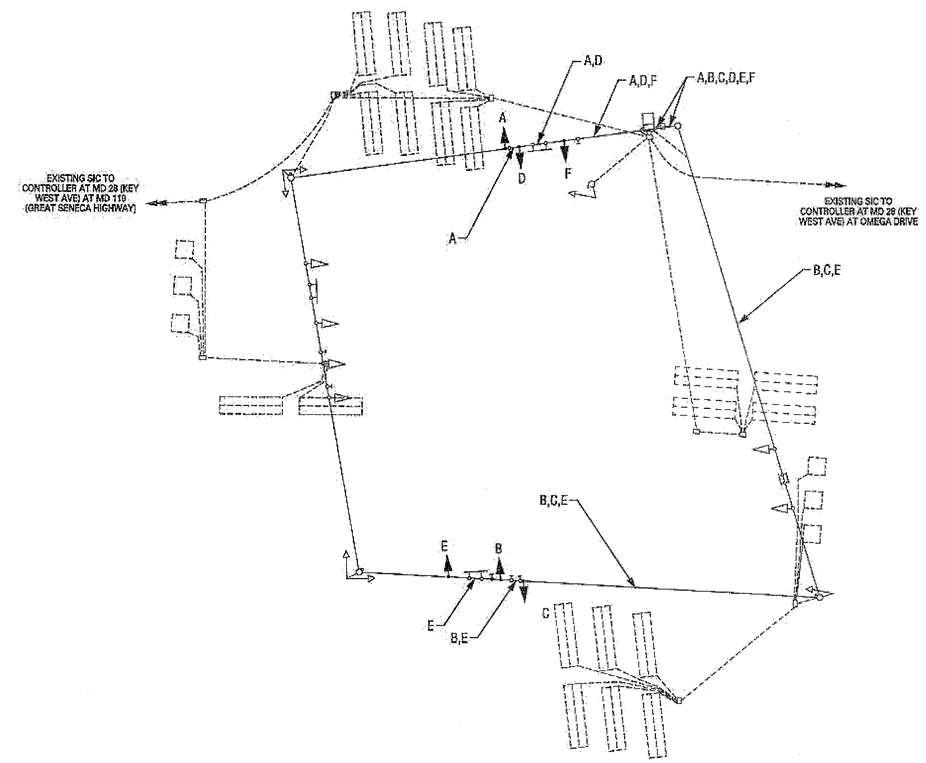
C. EQUIPMENT TO BE REMOVED AND RETURNED TO STATE HIGHWAY ADMINISTRATION

NONE

WIRING DIAGRAM LEGEND

A, B, C, D	7 CONDUCTOR ELECTRICAL CABLE (No. 14 AWG)
E, F	USE EXISTING WIRING
⊕	GROUND ROD

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13-16	17-18
PHASE 2+5	R	R	*G-	*G-	G	G	R	R	R	R	R	R	DW	DW
5 CHANGE	R	R	*Y-	*Y-	G	G	R	R	R	R	R	R	DW	DW
PHASE 2+6	G	G	*R-	*R-	G	G	R	R	R	R	R	R	WK	DW
PED CLEARANCE	G	G	*R-	*R-	G	G	R	R	R	R	R	R	FL/DW	DW
2+6 CHANGE	Y	Y	*R-	*R-	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	*R-	*R-	R	R	R	R	R	G	G	G	DW	DW
PHASE 3 CHANGE	R	R	*R-	*R-	R	R	R	R	R	Y	Y	Y	DW	DW
PHASE 4	R	R	*R-	*R-	R	R	G	G	G	R	R	R	DW	DW
4 CHANGE	R	R	*R-	*R-	R	R	Y	Y	G	R	R	R	DW	DW
PHASE ALT 4	R	R	*R-	*R-	R	R	G	G	G	R	R	R	DW	WK
PED CLEARANCE	R	R	*R-	*R-	R	R	G	G	G	R	R	R	DW	FL/DW
ALT 4 CHANGE	R	R	*R-	*R-	R	R	Y	Y	Y	R	R	R	DW	DW
FLASHING OPERATION	FL / Y	FL / Y	*FL / R	*FL / R	FL / Y	FL / Y	FL / R	FL / R	FL / R	FL / R	FL / R	FL / R	DARK	DARK

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 28 at Diamondback Drive/ Broschart Road

ROCKVILLE, MARYLAND

GENERAL INFORMATION SHEET

SCALE ____ DATE 10 FEB 2011 CONTRACT NO. BW996M82

DESIGNED BY NDG COUNTY MONTGOMERY
DRAWN BY JCP LOGMILE 15002818.91
CHECKED BY NDG T.I.M.S. NO. K411
F.A.P. NO. ____ TOD NO. ____

DRAWING NO. TS-4579B-GI SHEET NO. 2 OF 2

WELLS + ASSOCIATES, INC.
TRANSPORTATION, TRAFFIC AND PARKING CONSULTANTS
5 Wirt Street SW, Suite 202, Leesburg, Virginia 20175
Phone: 703/ 443-1442 Facsimile: 703/ 443-1225
1420 Spring Hill Road, Suite 600, McLean, Virginia 22102
Phone: 703/ 917-6620 Facsimile: 703/ 917-0739

PLOTTED:
FILE: [J:\Projects\4001 – 4500\4431 – MD28-Shady Grove Traffic Signals\Design\Signals\MD 28 & Diamondback GI.dgn

BY: WELLS + ASSOCIATES, INC.