DRILL HOLES

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BORDER REV: DATE: June 1, 2004

BY: WagnerM

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 190 (RIVER RD) AND WHITTIER BLVD/WINSTON DR IN MONTGOMERY COUNTY. THE MODIFICATION WILL REPLACE PEDESTRIAN SIGNALS, PUSHBUTTONS, SIGNS AND UPGRADE ADA FACILITIES. MD 190 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

1. THE INTERSECTION OPERATES IN A NEMA FOUR (4) PHASE, SEMI-ACTUATED MODE WITH THE MD 190 APPROACHES OPERATING CONCURRENTLY AND THE WHITTIER BLVD/WINSTON DR APPROACHES RUNNING CONCURRENTLY.

2. AN EXISTING NEMA FULL-TRAFFIC-ACTUATED, EIGHT (8) PHASE CONTROLLER WITH VIDEO DETECTION INTERFACE EQUIPMENT AND ALL NECESSARY EQUIPMENT IS HOUSED IN A NEMA SIZE '6' BASE MOUNTED CABINET AT THIS INTERSECTION.

III. SPECIAL NOTES

APS FUNCTIONS AS FOLLOWS:
TO CROSS MD 190 (RIVER RD)

1. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE: "WAIT TO CROSS RIVER AT WHITTIER/WINSTON, WAIT."
2. WHEN THE WALK PHASE BEGINS, THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACTS

DISTRICT (DISTRICT 3 - MONTGOMERY)

MR. BRIAN YOUNG
DISTRICT ENGINEER
301-513-7311

MS. ANYESHA MOOKHERJEE
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7498

MR. VICTOR GRAFTON
DISTRICT UTILITY ENGINEER
301-513-7350

MR. KEVIN NOWAK & MR. DUANE BERNARD
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7336

MR. TOM FOUNTAIN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

MONTGOMERY COUNTY DOT

MR. KAMAL HAMUD
TRAFFIC ENGINEER
240-777-8761

MR. ROBERT RICKETTS
SIGNAL SHOP
301-279-1291

OFFICE OF TRAFFIC AND SAFETY

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS
410-787-7630

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ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
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CHIEF, SIGN OPERATIONS SECTION
410-787-7670

MR. MICHAEL STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7696

UTILITY CONTACT

PEPCO
CHERYL HUNT
(301)548-4329
201 W GUDE DRIVE
ROCKVILLE, MD 20850-0850

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
NONE			
973023	24	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 1 EA D-3(1) DUAL FACE (VAR"X16") "WINSTON =>/<=WINSTON" STREET SIGN 1 EA D-3(1) DUAL FACE (VAR"X16") "WHITTIER =>/<=WHITTIER" STREET SIGN 2 EA R10-3(1) "PUSH BUTTON TO CROSS "RIVER RD" (9"X15")
973023	5	SF	SHEET ALUMINUM GROUND MOUNTED SIGN 1 EA R4-7 "KEEP RIGHT" (24"x30")

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

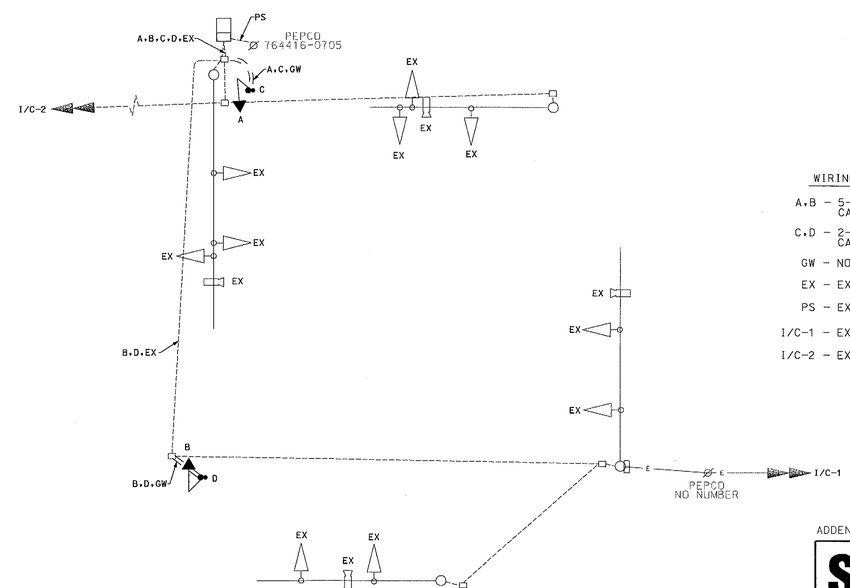
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
120500	1	LS	MAINTENANCE OF TRAFFIC
201032	4	CY	CLASS II EXCAVATION
203030	1	CY	TEST PIT EXCAVATION
585621	400	LF	12" WHITE PREFORMED THERMOPLASTIC MARKING LINES
585625	150	LF	24" WHITE PREFORMED THERMOPLASTIC MARKING LINES
634100	20	LF	STANDARD TYPE A CURB 8" x 16"
634300	85	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN 8" DEPTH
655105	650	SF	5" CONCRETE SIDEWALK
655120	55	SF	DETECTABLE WARNING SURFACES
704345	18	SY	PLACE FURNISHED TOP SOIL 4 INCH DEPTH
708220	18	SY	TURFGRASS SOD ESTABLISHMENT
800000	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGN
800000	2	EA	LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEADS
800000	1	LS	REMOVE & DISPOSE MATERIAL AND EXISTING EQUIPMENT PER ASSIGNMENT
801004	2	CY	CONCRETE FOR SIGNAL FOUNDATION
801106	15	LF	WOOD SIGN SUPPORTS 4" x 6"
802145	1	EA	ADJUST EXISTING HANDHOLE
802501	40	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	30	LF	2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
813014	5	SF	INSTALL GROUND MOUNTED SIGN
813015	24	SF	INSTALL OVERHEAD SIGN
813023	11	SF	RELOCATE GROUND MOUNTED SIGNS
818004	2	EA	10 FOOT BREAKAWAY PEDESTAL POLE
861105	185	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	200	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

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

PHASE CHART

	1	2	3	3A	4	5	6	7	8	9	10	11
PHASE 1 + 6	R	R	←G/G−	←G/G−	G	R	R	R	R	R	DW	DW
1 + 6 CHANGE	R	R	←Y/G−	←Y/G−	G	R	R	R	R	R	DW	DW
PHASE 2 + 6	G	G	G	G	G	R	R	R	R	R	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW
PHASE 4 + 8	R	R	R	R	R	G	G	G	G	G	DW	DW
4 + 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	R	G	G	G	G	G	WK	WK
PED. CLEARANCE	R	R	R	R	R	G	G	G	G	G	FL/DW	FL/DW
4 + 8 ALT 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/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A.B - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C.D - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

GW - NO.6 A.W.G STRANDED BARE COPPER GROUND WIRE

EX - EXISTING SIGNAL CABLE

PS - EXISTING POWER SOURCE

I/C-1 - EXISTING INTERCONNECT CABLE TO MD 614

I/C-2 - EXISTING INTERCONNECT CABLE TO MD 188

ADDENDUM #1

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 190 (RIVER RD) at WHITTIER BLVD/ WINSTON DR

CABIN JOHN, MD

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE 7-23-2013 CONTRACT NO. MO8745477

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CHECKED BY KMP TIMS NO. L935
F.A.P. NO. TOD NO.

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