DRILL HOLES

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BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF GUILFORD ROAD AT DORSEY RUN ROAD INTERSECTION. PARTIAL RECONSTRUCTION OF THE TRAFFIC SIGNAL IS REQUIRED. GUILFORD ROAD) IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION, DORSEY RUN ROAD IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE AS IN EXISTING CONDITIONS.
THIS SIGNAL IS INTERCONNECTED TO THE EASTBOUND MD 32/ DORSEY RUN ROAD AND THE WESTBOUND MD 32/ DORSEY RUN ROAD SIGNALIZED INTERSECTIONS.

CONTROLLER REQUIREMENTS

INSTALL A NEMA 8 PHASE CONTROLLER IN A NEMA 6 BASE MOUNTED CABINET.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO DETECTION CAMERAS AND MICRO PROBE LOOP DETECTION. THE ADVANCED DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH NON-INVASIVE DETECTORS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8140

MR. RAY JOHNSON, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 624-8105

MS. ANDREA ABEND, UTILITY ENGINEER
PHONE:(301) 624-8115

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

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR ACCORDING TO THE MOT PLANS. REFER TO MOT PLAN PHASE 3.
3. THE PUSHBUTTONS SHALL BE PROGRAMMED W/ THE FOLLOWING MESSAGES:

NORTH LEG
WAIT MESSAGE: WAIT TO CROSS DORSEY RUN RD AT GUILFORD RD. CROSS WALK ANGLES LEFT
WALK MESSAGE: RAPID TICK

WEST LEG
WAIT MESSAGE: WAIT TO CROSS GUILFORD RD. AT DORSEY RUN RD.
WALK MESSAGE: RAPID TICK.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

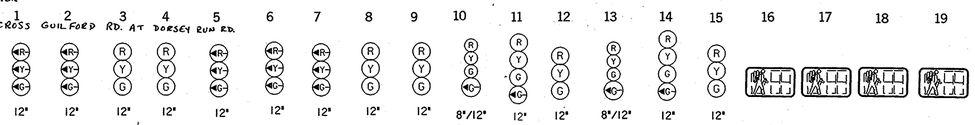
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	SHEET ALUMINUM SIGNS	SF	15.0
	4 EA R10-3(I) (9" X 15")	SF	3.8
	1 EA W1102 (36"X36")	SF	9.0
	1 EA W16-7p (21"X15")	SF	2.2

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

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	1.0
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	1.4
805115	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	34.0
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	38.0
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	1.0
813015	INSTALL OVERHEAD SIGN	SF	15.0
818004	10 FOOT BREAKAWAY PEDESTAL POLE	EA	2.0
832020	BARE COPPER GROUND WIRE, NO. 6 AWG	LF	302.0
837001	GROUND ROD -3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	2.0
860292	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	1.0
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	430.0
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	450.0
865001	PUSHBUTTON AND SIGN	EA	4.0
800000	FURNISH AND INSTALL AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN	EA	4.0
800000	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT	EA	4.0

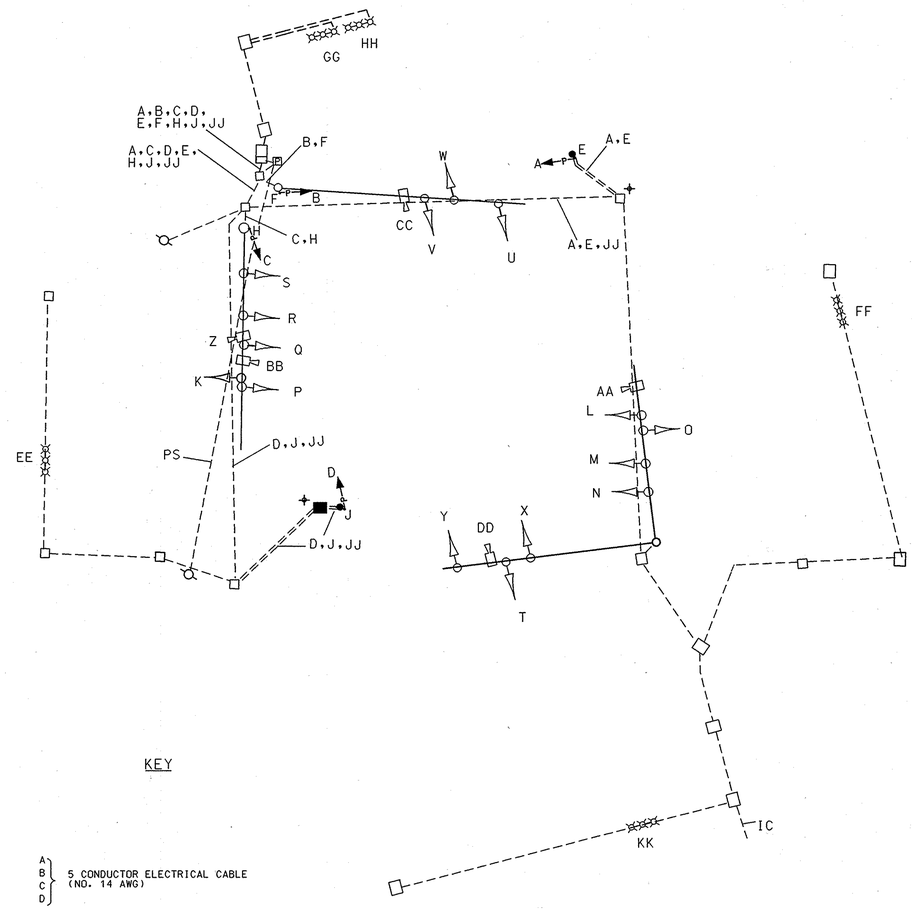
C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.
ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 1 AND 5	◄G	◄G	R	R	◄G	◄G	◄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	◄G	◄G	G	G	◄R	◄R	◄R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 6 CHANGE	◄Y	◄Y	Y	Y	◄R	◄R	◄R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	◄R	◄R	R	R	◄G	◄G	◄G	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEAR	◄R	◄R	R	R	◄G	◄G	◄G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 5 CHANGE	◄R	◄R	R	R	◄Y	◄Y	◄Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	◄R	◄R	G	G	◄R	◄R	◄R	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 AND 6 CHANGE	◄R	◄R	Y	Y	◄R	◄R	◄R	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6 ALT	◄R	◄R	G	G	◄R	◄R	◄R	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEAR	◄R	◄R	G	G	◄R	◄R	◄R	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 6 ALT CHANGE	◄R	◄R	Y	Y	◄R	◄R	◄R	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	◄R	◄R	R	R	◄R	◄R	◄R	R	R	R	R	R	◄G/G	◄G/G	G	DW	DW	DW	DW
3 CHANGE	◄R	◄R	R	R	◄R	◄R	◄R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
PHASE 3 ALT	◄R	◄R	R	R	◄R	◄R	◄R	R	R	◄G/G	◄G/G	G	R	R	R	DW	DW	WK	WK
PED CLEAR	◄R	◄R	R	R	◄R	◄R	◄R	R	R	◄G/G	◄G/G	G	R	R	R	DW	DW	FL/DW	FL/DW
3 ALT CHANGE	◄R	◄R	R	R	◄R	◄R	◄R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
PHASE 4	◄R	◄R	R	R	◄R	◄R	◄R	R	R	◄G/G	◄G/G	G	R	R	R	DW	DW	DW	DW
4 CHANGE	◄R	◄R	R	R	◄R	◄R	◄R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



KEY

A, B, C, D } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

E, F, H, J } 2 CONDUCTOR ELECTRICAL (PUSH BUTTON) CABLE (NO. 14 AWG)

JJ } 1 CONDUCTOR STRANDED BARE COPPER GROUND (NO.6 AWG)

K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, KK } EXISTING CABLE

PS POWER SOURCE
IC INTERCONNECT CABLE

SHA NO : BW389M84
DORSEY RUN ROAD
AND GUILFORD DRIVE

Gannett Fleming
4701 Mt. Hope Drive
Seton Business Park
Baltimore, Maryland 21215
410-585-1460

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN - FINAL

GUILFORD ROAD AT DORSEY RUN ROAD
ROADWAY IMPROVEMENTS

GENERAL INFORMATION

SCALE NTS DATE SEPT. 2007 CONTRACT NO.

DESIGNED BY DKS COUNTY HOWARD
DRAWN BY DKS LOGMILE 13732R00.56
CHECKED BY TCC T.I.M.S. NO. G467
F.A.P. NO. TOD NO.

DRAWING NO. TS 42538-GI OF SHEET NO. 87 OF 156