PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS AT THE INTERSECTION OF MD 197 (COLLINGTON ROAD) AND KENHILL DRIVE / LONDON LANE IN PRINCE GEORGE'S COUNTY. LED 16 INCH PEDESTRIAN COUNTDOWN SIGNAL HEADS WILL REPLACE THE EXISTING PEDESTRIAN SIGNAL HEADS. MD 197 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT TURN PHASING ALONG MD 197 AND SPLIT PHASING ALONG KENHILL DRIVE / LONDON LANE. THE CONCURRENT MAINLINE AND ALTERNATE SIDE STREET PEDESTRIAN PHASES WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER SHALL REMAIN. THE SHA SIGNAL SHOP SHALL INSTALL A 2-WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)-787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Brian Young
Assistant District Engineer - Traffic
Phone: 301-513-7358

Mr. Augie Reblsh
Assistant District Engineer - Utility
Phone: 301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: 301-513-7304

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, Signal Operations Division
Phone: 410-787-7650

The Power Company Representative is:
Potomac Electric Power Company
8300 Old Marlboro Pike
Upper Marlboro, Maryland 20772
Phone: 301-961-5325

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9570	12 SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN 2 EA - S1-1 FYG (36 IN. X 36 IN.) 2 EA - W16-7p FYG (21 IN. X 15 IN.)
9571	97 SF	[UPDATED] SHEET ALUMINUM MAST ARM/ POLE MOUNTED SIGN 2 EA - R10-4(1), (9 IN. X 15 IN.) POLE MOUNT, "PUSH BUTTON TO CROSS COLLINGTON ROAD" 2 EA - R10-4(1), (9 IN. X 15 IN.) POLE MOUNT, "PUSH BUTTON TO CROSS KENHILL DRIVE" 1 EA - ASSOCIATED SHIELD ASSEMBLY: POLE MOUNT, (30 IN. X 51 IN.), "NORTH, MD 197 RIGHT ARROW" 1 EA - ASSOCIATED SHIELD ASSEMBLY: POLE MOUNT, (30 IN. X 51 IN.), "SOUTH, MD 197, RIGHT ARROW" 1 EA - ASSOCIATED SHIELD ASSEMBLY: POLE MOUNT, (48 IN. X 75 IN.), "NORTH, MD 197, LEFT ARROW" 1 EA - ASSOCIATED SHIELD ASSEMBLY: POLE MOUNT, (48 IN. X 75 IN.), "SOUTH, MD 197, LEFT ARROW" 2 EA - D-3(2) (96 IN. X 16 IN.) "COLLINGTON RD", DUAL FACED

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

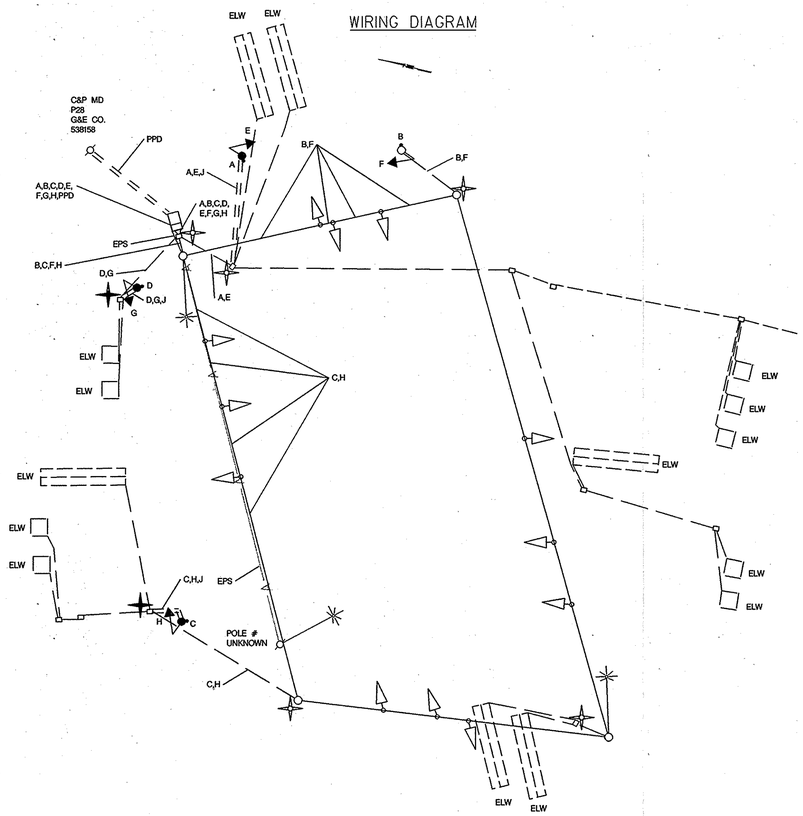
ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	3 CY	TEST PIT EXCAVATION
5003	300 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5005	350 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
8006	1 EA	2 WIRE CENTRAL CONTROL UNIT
8014	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND SIGN
8015	3 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8016	1 EA	CONDUIT BEND IN EXISTING BASE
8024	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
8028	1 EA	REMOVE & DISPOSE OF EQUIPMENT
8037	60 SF	DETECTABLE WARNING SURFACES
8040	3 CY	CONCRETE FOR SIGNAL FOUNDATION
8041	18 LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8043	60 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8049	20 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8051	40 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8052	40 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8063	12 SF	INSTALL GROUND MOUNTED SIGN
8064	97 SF	INSTALL OVERHEAD SIGN
8070	2 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8076	670 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8078	650 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR		

WIRING DIAGRAM



A B C D — ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

E F G H — ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

J — NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

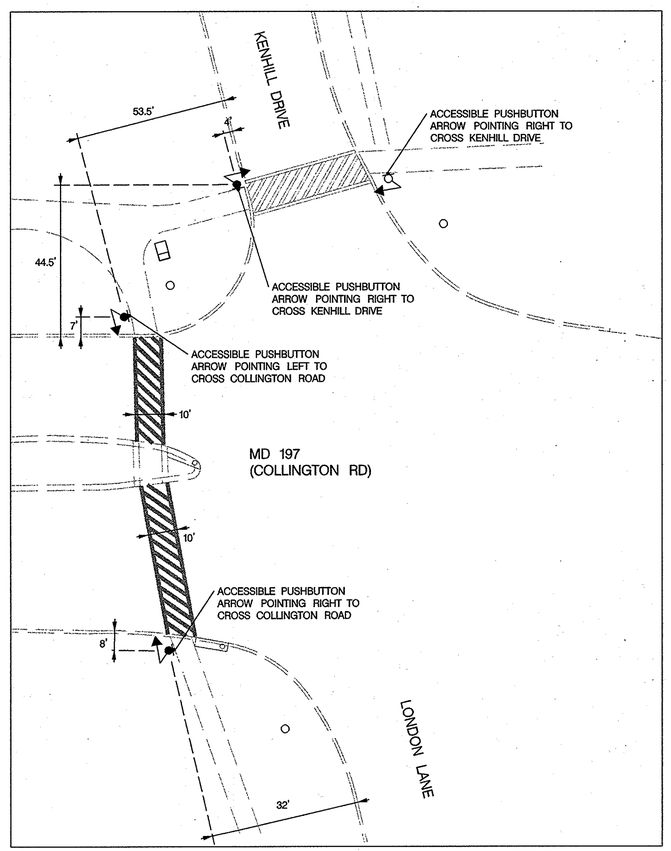
ELW — EXISTING LOOP WIRE

EPS — EXISTING POWER SERVICE

PPD — PROPOSED UNDERGROUND TELEPHONE SERVICE TO BE INSTALLED BY OTHERS

PRPOPOSED PEDESTAL POLE LOCATIONS, PUSHBUTTON DETAIL, AND CROSSWALK DIMENSIONS

(NOT TO SCALE)



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 & 5	R / ~~G~~	R / ~~G~~	R	R / ~~G~~	R / ~~G~~	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 1 & 6, 2 & 5 OR 2 & 6															
PHASE 1 & 6	~~G~~ / G	~~G~~ / G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 6 CHANGE	~~Y~~ / G	~~Y~~ / G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	~~G~~ / G	~~G~~ / G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 5 CHANGE	R	R	R	~~Y~~ / G	~~Y~~ / G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	W	W	DW	DW
PHASE 2 & 6 PED. CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	~~G~~ / G	~~G~~ / G	G	R	R	R	DW	DW	DW	DW
PHASE 3 CHANGE	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	DW	DW	DW	DW
PHASE 4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	R	R	R	~~G~~ / G	~~G~~ / G	G	DW	DW	W	W
PHASE 4 ALT. CHANGE	R	R	R	R	R	R	R	R	R	~~G~~ / G	~~G~~ / G	G	DW	DW	FL/DW	FL/DW
PHASE 4 ALT. CHANGE	R	R	R	R	R	R	R	R	R	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

TOD NO: AT782-65
SHA No.: PG694A5A/B5A
MD 197 @ Kenhill Drive/London Lane

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 197 (COLLINGTON ROAD) AT KENHILL DRIVE/LONDON LANE

GENERAL INFORMATION

SCALE NONE DATE 1/2007 CONTRACT NO. AT7825185

DESIGNED BY MCG
DRAWN BY MCG
CHECKED BY BAB
F.A.P. NO.

COUNTY PRINCE GEORGES
LOGMILE 16019701.81
T.I.M.S. NO. H432
TOD NO.

DRAWING NO. TS-7E G-1

SHEET NO. 2 OF 2

STV Incorporated
engineers /architects /planners /construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

BY: weavercc

PLOTTED: Thursday, January 11, 2007 AT 10:59 AM
FILE: I:\PROJECTS\0312513\0312513_0044\Drawings\TRA\pSG-N000_Kenhill.dgn