PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES PROVIDING AUDIBLE PEDESTRIAN MOVEMENTS AND COUNTDOWN PEDESTRIAN SIGNAL HEADS AT THE EXISTING INTERSECTION OF MD 588 (KENWOOD AVE) AND HAZELWOOD AVENUE/ KENWOOD AVE/ MD 588 (GOLDEN RING RD) IN BALTIMORE COUNTY. THE EXISTING MAST ARM STRUCTURES, TRAFFIC SIGNAL HEADS AND STREET LIGHTING SHALL REMAIN. THE EXISTING POLE-MOUNTED CABINET SHALL BE MODIFIED

MD 588 (KENWOOD AVE) IS ASSUMED TO RUN IN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION OPERATES A NEMA FIVE-PHASE, FULL-ACTUATED MODE. MD 588 (KENWOOD AVE) AND KENWOOD AVENUE APPROACHES OPERATE CONCURRENTLY. A WESTBOUND EXCLUSIVE/PERMISSIVE LEFT FROM MD 588 (KENWOOD AVE) OPERATES WITH THE NORTHBOUND RIGHT TURN FROM MD 588 (GOLDEN RING RD). HAZELWOOD AVENUE AND MD 588 (GOLDEN RING RD) APPROACHES OPERATE CONCURRENTLY. EXISTING VIDEO DETECTOR CAMERAS PROVIDE PRESENCE DETECTION. AUDIBLE PEDESTRIAN PUSHBUTTON MOVEMENTS TO CROSS THE EAST LEG OF MD 588 (GOLDEN RING RD) AND THE WEST LEG OF HAZELWOOD AVENUE AND THE SOUTH LEG OF KENWOOD AVE. SHALL BE PROVIDED.

III. SPECIAL NOTES:

CONTRACTOR SHALL PURCHASE AND DELIVER THE 2-WIRE CENTRAL CONTROL UNIT FOR THE CONTROLLER TO SHA SIGNAL SHOP, AT 7491 CONNELLEY ROAD, HANOVER, MD, 21076. MR. EDWARD RODENHIZER AT 410-787-7652 SHALL AT CONTACTED AT LEAST 3 DAYS PRIOR TO THE DELIVERY.

PROJECT CONTACTS:

THE CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 410-321-2781/2885

ASSISTANT DISTRICT ENGINEER-CONSTRUCTION
410-321-2821

MR.STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: 410-321-2761

MR. MICHAEL PASQUARIELLO
DISTRICT UTILITY ENGINEER
PHONE: 410-321-2841

THE CONTACT PERSONS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATION SECTION
PHONE: 410-787-7652

MR. ROBERT SNYDER
ASST. CHIEF, TRAFFIC OPERATION DIVISION
PHONE: 410-787-7631

MR. JAY THAKER
PROJECT MANAGER, TRAFFIC ENGINEERING DESIGN DIVISION
PHONE: 410-582-5682

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR.

CAT CODE:	QUANTITY	DESCRIPTION
973023	3.75 SF	SHEET ALUMINIUM SIGNS MAST ARM/POLE MOUNTED
		6 EA R10-3(1) COUNTDOWN PEDESTRIAN PUSHBUTTON SIGN

EQUIPMENT LIST "B"

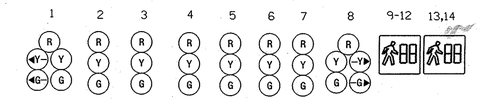
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CAT CODES:	QUANTITY	DESCRIPTION
203030	3 CY	TEST PIT EXCAVATION
801004	4 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	480 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	115 LF	3" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT-TRENCHED
805118	45 LF	4" SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED
811001	1 EA	ELECTRICAL HANDHOLE
801706	6 SF	REMOVE OVERHEAD SIGN
821003	4 EA	BREAKAWAY BASE SUPPORT SYSTEM FOR TRAFFIC SIGNAL STRUCTURE
837001	5 EA	GROUND ROD 3/4 "DIA. X 10' LENGTH
800000	1 EA	2 WIRE NAVIGATOR CENTRAL CONTROL UNIT
800000	6 EA	AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN
800000	6 EA	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION
860292	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861107	405 LF	ELECTRICAL CABLE 5- CONDUCTOR NO. 14 AWG
861105	550 LF	ELECTRICAL CABLE 2- CONDUCTOR NO. 14 AWG
818004	4 EA	10' BREAKAWAY PEDESTAL POLE
802145	1 EA.	ADJUST HANDBOX TO FINAL GRADE
800000	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT

EQUIPMENT LIST "C"

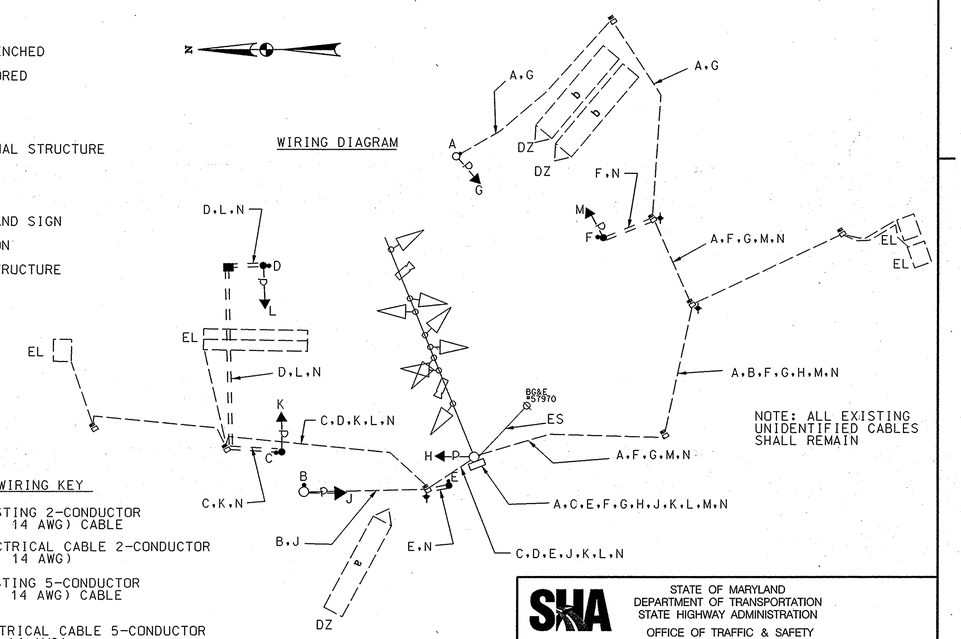
ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



	1	2	3	4	5	6	7	8	9-12	13,14
Phase 1 & 6	G G	G	R	R	R	R	R	R	DW	DW
1 Change	G Y	G	R	R	R	R	R	R	DW	DW
Phase 2 & 6	G	G	G	G	R	R	R	R	WK	DW
Ped. Clear Countdown	G	G	G	G	R	R	R	R	FL/DW	DW
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	DW	DW
Phase 4 & 8	R	R	R	R	G	G	G	G	DW	DW
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	DW	DW
Phase4 Alt.	R	R	R	R	G	G	G	G	DW	WK
Ped. Clear Countdown	R	R	R	R	G	G	G	G	DW	FL/DW
4 Alt. Change	R	R	R	R	Y	Y	Y	Y	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



NOTE: ALL EXISTING UNIDENTIFIED CABLES SHALL REMAIN

WIRING KEY

A,B – EXISTING 2-CONDUCTOR (NO. 14 AWG) CABLE

C,D,E,F – ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 AWG)

G,H,J – EXISTING 5-CONDUCTOR (NO. 14 AWG) CABLE

K,L,M – ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 AWG)

N – NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

ES – EXISTING OVERHEAD SERVICE FEED

✦ – GROUND ROD 3/4" DIA x 10' LENGTH

EL – EXISTING LOOP DETECTOR

DZ – EXISTING CAMERA DETECTION ZONE

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD. 588 (KENWOOD AVE.) AT GOLDEN RING RD. /KENWOOD AVE.

GENERAL INFORMATION SHEET

SCALE NONE DATE 06/13/2007 CONTRACT NO. BA5075I77

DESIGNED BY EMM
DRAWN BY EMM
CHECKED BY TMH
F.A.P. NO.

COUNTY BALTIMORE
LOGMILE 03058801.94
T.I.M.S. NO. H 165
TOD NO.

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVISION "B" 23144.07

DRAWING NO. 1965 B TS- 2 OF 4

SHEET NO. 19 OF 30

PLOTTED:
FILE: Q:\TRANSDWG\23144.07 GOLDEN RING ROAD\PSG-N001_MD588.DGN

THURSDAY, JUNE 14, 2007 AT 02:45 PM

BY: EMILESKY