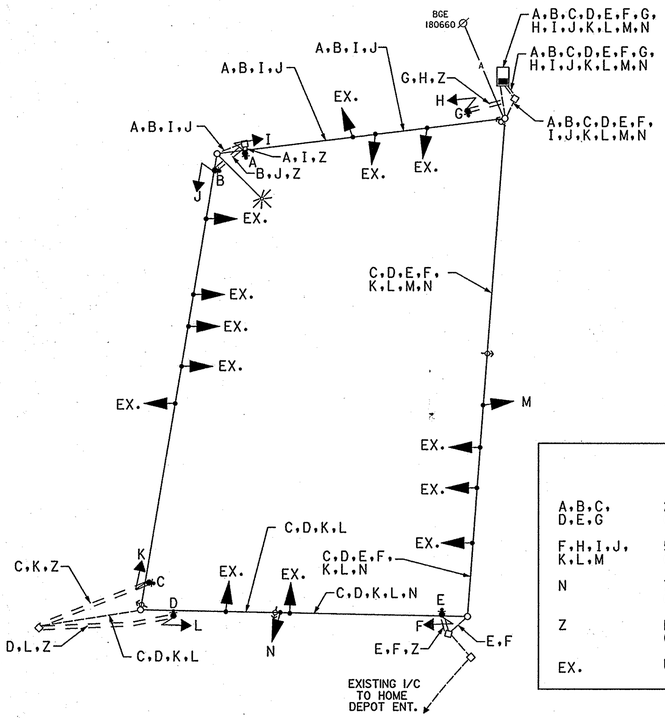
WIRING DIAGRAM



WIRING KEY

A,B,C, D,E,G	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
F,H,I,J, K,L,M	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
N	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
Z	NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
EX.	USE EXISTING WIRING

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
PHASE 1 & 5	G	G	R	R	G	G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 5 CHANGE	TO PHASE 1 & 6, PHASE 2 & 5, OR PHASE 2 & 6															DW	DW	DW	DW	DW	DW
PHASE 1 & 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	R	G	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	R	R	R	R	Y	Y	Y	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	R	R	G	G	R	R	R	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE/ COUNTDOWN	R	R	G	G	R	R	R	G	G	R	R	R	R	R	R	FLDW	FLDW	FLDW	FLDW	DW	DW
2 & 6 CHANGE	R	R	Y	Y	R	R	R	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	G	G	G	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW	WK	WK
PED CLEARANCE/ COUNTDOWN	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW	FLDW	FLDW
4 ALT. CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PRE-EMPTION #1	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PRE-EMPTION #2	R	R	R	R	G	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
CHANGE	R	R	R	R	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PRE-EMPTION #3	R	R	R	R	R	R	R	R	R	G	G	G	R	R	R	DW	DW	DW	DW	DW	DW
CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PRE-EMPTION #4	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW	DW	DW
CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

CONSTRUCTION DETAILS

A. REMOVE EXISTING CABINET. INSTALL NEW NEMA SIZE "6" BASE MOUNTED CABINET ONTO EXISTING FOUNDATION WITH NEW CONTROLLER EQUIPMENT.

B. USE EXISTING SPAN WIRE.

C. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE, COUNTDOWN PEDESTRIAN SIGNAL HEAD(S) (PEDESTAL POLE MOUNTED), APS PUSHBUTTON AND SIGNS (ORIENTED PARALLEL WITH CROSSWALK). NOTE: FOUNDATION REQUIRES ONE 3 INCH CONDUIT BEND.

D. RELOCATE EXISTING SIGN AS SHOWN.

E. INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

F. INSTALL W11-2/W16-7P ON ONE 4 IN. X 6 IN. WOOD SUPPORT (INSTALL PVC SLEEVE IN CONCRETE WHERE NEEDED).

G. INSTALL PROPOSED L.E.D. SIGNAL HEAD ON EXISTING SPAN WIRE AS SHOWN.

H. REPLACE EXISTING SIGNAL HEAD WITH NEW L.E.D SIGNAL HEAD AS SHOWN.

J. INSTALL SHIELD ASSEMBLY ON EXISTING STRAIN POLE.

K. INSTALL 12 IN. WHITE LEAD FREE REFLECTIVE PAVEMENT MARKING.

L. INSTALL 24 IN. WHITE LEAD FREE REFLECTIVE PAVEMENT MARKING.

M. INSTALL 5 IN. CONCRETE SIDEWALK WITH SIDEWALK RAMP (SHA STANDARD NO. MD 655.13) WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO. MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03). REFER TO CONTRACT DOCUMENTS FOR QUANTITIES. COORDINATE WORK WITH GENERAL CONTRACTOR.

N. RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORT AS SHOWN.

O. INSTALL HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS AS SHOWN.

P. REMOVE EXISTING PAVEMENT MARKING. REFER TO CONTRACT DOCUMENTS FOR QUANTITIES.

R. USE EXISTING CONDUIT.

S. USE EXISTING HANDHOLE.

T. REMOVE EXISTING SIGNAL HEAD.

U. INSTALL PROPOSED R3-5(L) SIGN ON EXISTING SPAN WIRE AS SHOWN.

V. INSTALL STEEL TETHER WIRE 1/4 INCH DIAMETER.

W. REMOVE EXISTING GROUND MOUNTED SIGN.

X. INSTALL 5" CONCRETE SIDEWALK. NEW SIDEWALK SHALL BE ALIGNED WITH EXISTING JOINTS.

Y. INSTALL PROPOSED R3-6(L) ON EXISTING SPAN WIRE.

Z. INSTALL PROPOSED R4-7 SIGN ON ONE 4 IN. X 4 IN. WOOD SUPPORT AT 15 DEGREES (WITH PVC SLEEVE).

AA. REMOVE 6 FT. OF THE EXISTING 4 FT. MONOLITHIC MEDIAN, (CLASS 2 EXCAVATION), INSTALL NEW MONOLITHIC MEDIAN, AND RESURFACE AS NEEDED.

BB. * INSTALL 12 IN. WHITE LEAD FREE REFLECTIVE PAVEMENT MARKING.

* TO BE INSTALLED BY OTHERS UNDER CONTRACT NUMBER PG4805177

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

2. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

3. ALL LOOP DETECTOR REPLACEMENTS ARE COVERED IN THE CONTRACT DOCUMENTS AS PART OF PG4505177.REFER TO IFB FOR LOOP REPLACEMENT INFORMATION.

4. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER TO COORDINATE AT 410-787-7652.

☐ REDLINE REVISION / /
CONTRACT PG4505177
NEW SHEET

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

MD 198 (FT. MEADE RD) AND MD 197
(LAUREL-BOWIE)/IRVING ST
LAUREL, MD

GENERAL INFORMATION SHEET

RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TELE:(410)728-2900 FAX:(410)383-3270

SCALE NONE DATE 1-2006 CONTRACT NO. PG4505177
DESIGNED BY MLH /TC COUNTY PRINCE GEORGE'S
DRAWN BY MLH /TC LOGMILE 16019714.64
CHECKED BY DAE TIMS NO. H106G-GI
FAP NO. TOD NO.
TS NO. 1847G DRAWING - OF SHEET NO. 2 OF 3