

THIS PROJECT INVOLVES RECONSTRUCTING THE TRAFFIC SIGNAL AT MD 185 AND WELLER ROAD. THE NEW SIGNAL WILL BE EQUIPPED WITH APS/CPS SIGNALS, PUSHBUTTONS, ADA RAMPS AT ALL ACCESSIBLE CROSSINGS, AND OVERHEAD SCHOOL HIBS IN EACH DIRECTION OF MD 185. THE HIBS WILL BE ACTIVATED BY THE CROSSING GUARD. MD 185 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

THIS INTERSECTION OPERATES IN A NEMA FOUR PHASE OPERATION SEMI-ACTUATED MODE.
MD 185 (CONNECTICUT AVENUE) APPROACHES WILL OPERATE CONCURRENTLY.
WELLER ROAD APPROACHES WILL OPERATE CONCURRENTLY.

NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTONS TO CROSS THE NORTH LEG OF THE INTERSECTION ARE TO BE PROVIDED. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:

1. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MR. CEDRIC WARD
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE NUMBER (301) 513-7498

MR. VICTOR GRAFTON
DISTRICT ENGINEER - UTILITIES
PHONE NUMBER (301) 513-7350

MR. VERNON STINNETT JR.
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE NUMBER (301) 513-7304

MR. ROBERT RICKETTS
MONTGOMERY COUNTY TECHNICAL CENTER SUPERVISOR
PHONE NUMBER (240) 876-3681

MR. KAMAL HAMUD
MONTGOMERY COUNTY- TRAFFIC ENGINEERING
PHONE NUMBER (301) 777-8761

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: MD 104.04-13 THROUGH MD 104.04-16.

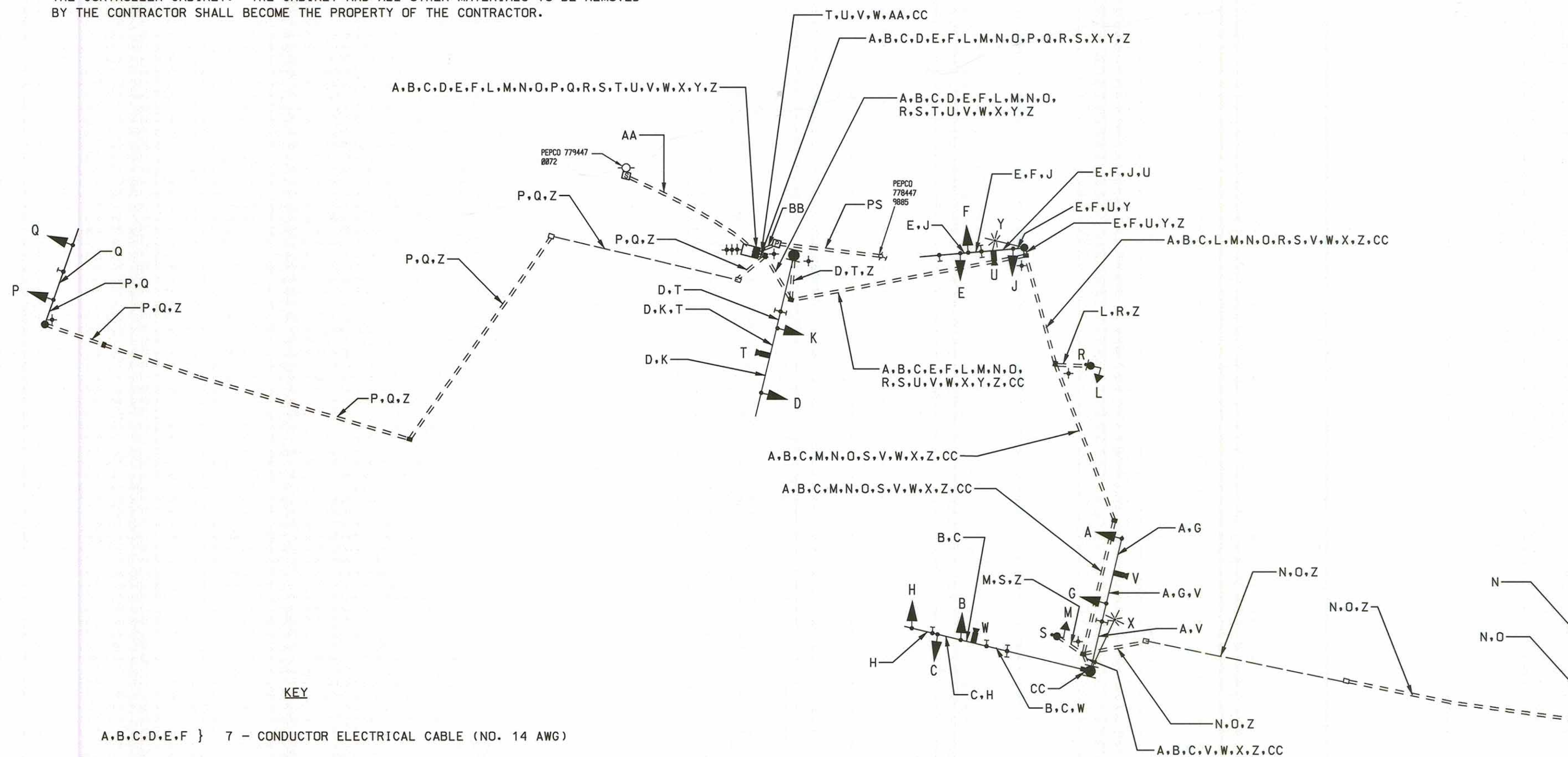
EQUIPMENT LIST

ITEM NO./ CAT CODE	QUANTITY	DESCRIPTION
900000	1 EA	MONTGOMERY COUNTY SPLICE CABINET (MONTGOMERY COUNTY TO SUPPLY/INSTALL)
900000	1 EA	TRAFFIC SIGNAL CONTROLLER NEMA SIZE 6 BASE MOUNT CABINET AND VIDEO DETECTION INTERFACE EQUIPMENT (FOR 1-4 CAMERAS)
900000	1 EA	PELCO FLASHER CABINET REAR MOUNT AND BACK PANEL WITH ON/OFF SWITCH AND LED "YELLOW" INDICATION LAMP (PROVIDE 6 SPARE KEYS)
973023	255 SF	SHEET ALUMINUM SIGNS CONSISTING OF:
	2 SF	R10-3(1), (9"x15"), POLE MOUNT-2 EACH
	85 SF	D-3(1), DUAL FACED (16"xVAR.), MAST ARM MOUNT-8 EACH
	15 SF	R3-5(L), (30"x36"), MAST ARM MOUNT-2 EACH
	4 SF	R10-11, (24"x24"), MAST ARM MOUNT-1 EACH
	72 SF	S1(1)MOD, S1(1) MOD., (108"x48"), MAST ARM MOUNT-2 EACH
	48 SF	SHIELD ASSEMBLY (48"x72"), BAND TO POLE - 2 EACH
	20 SF	SHIELD ASSEMBLY (30"x48"), BAND TO POLE - 2 EACH
	9 SF	D3-2(1), (54"x24"), POST MOUNT - 1 EACH

ITEM NO. / CAT CODE	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2001 ■	52 CY	CLASS 2 EXCAVATION
2002	6 CY	TEST PIT EXCAVATION
5002	20 LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5003	1160 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	1000 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	160 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	145 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002 ■	1450 SF	5 INCH CONCRETE SIDEWALK
6003	90 SF	DETECTABLE WARNING SURFACE FOR CURB RAMP
8001	34 EA	12 INCH LED SIGNAL HEAD SECTION
8002	1 EA	2-WIRE CENTRAL CONTROL UNIT (APS PANEL TO BE SUPPLIED BY CONTRACTOR)
8005	2 EA	ADJUST HANDHOLE TO GRADE WITH NEW FRAME AND COVER
8007	2 EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP AND LUMINAIRE
8008	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON STATION AND SIGNS
8009	2 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8012	1 EA	EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH
8015	2 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8017	1 EA	MAST ARM POLE AND 38 FOOT MAST ARM ANY 'T' DIMENSION
8019	3 EA	MAST ARM POLE AND 60 FOOT MAST ARM ANY 'T' DIMENSION

ITEM NO. / CAT CODE	QUANTITY	DESCRIPTION
8023	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8026	1 EA	TWIN MAST ARM POLE AND 50 FOOT/70 FOOT MAST ARM ANY 'T' DIMENSION
8028	1 EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8030	330 LF	1- CONDUCTOR ELECTRICAL CABLE, NO. 2 AWG/THHN
8031	90 LF	12-PAIR COMMUNICATION CABLE, SELF SUPPORTING, JELLY FILLED/UNDERGROUND
8033	5 LF	DISCONNECT, PULL BACK AND REROUTE CABLES
8034	485 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG) TYPE T/C
8038	520 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8039	1350 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8041	255 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8043	1900 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8046	35 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8047	15 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8051	30 LF	3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER
8054	500 LF	ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)
8056	3000 LF	ELECTRICAL CABLE-5 CONDUCTOR (NO. 14 AWG)
8057	1650 LF	ELECTRICAL CABLE-7 CONDUCTOR (NO. 14 AWG)
8063	1 EA	INSTALL CONTROLLER AND CABINET-BASE MOUNT (ANY SIZE)
8040	15 LF	WOOD SIGN SUPPORTS UP TO 4"X6"

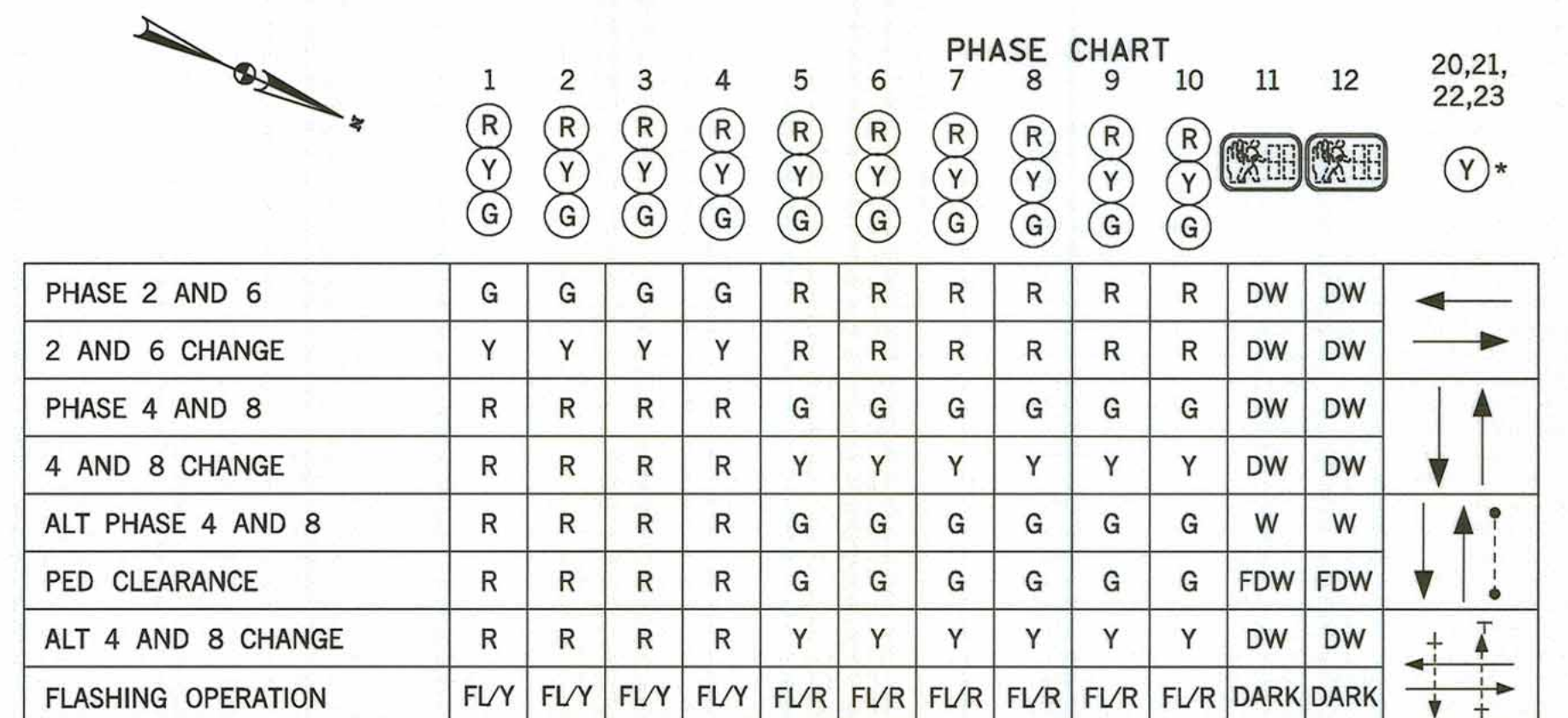
C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



KEY

A,B,C,D,E,F }	7 - CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
G,H,I,J,K,L,M,N,O,P,Q }	5 - CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
R,S }	2 - CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
X,Y }	ELECTRICAL CABLE - 2-CONDUCTOR (NO.12 AWG) TYPE T/C
BB }	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
PS }	3-1 CONDUCTOR ELECTRICAL CABLE, NO 2 AWG/THHN
T,U,V,W }	VIDEO DETECTION CONTROL CABLE
Z }	STRANDED BARE COPPER GROUND WIRE (NO. 8 AWG)
+	GROUND ROD
AA }	12-PAIR INTERCONNECT CABLE

CABLE "CC" CONNECTS CROSSING GUARD CONTROL BOX AND CONTROLLER.



* SIGNALS 20,21,22 AND 23 WILL FLASH ALTERNATING WITH "MANUAL ON/OFF SWITCH" DURING SCHOOL CROSSING ONLY

3Y: Aaron Hottenstein Division: P068 Highway TrafficGMA Emp



1 REDLINE NO. 1
MARCH 2012

 3/4/2012

APPROVED BY TEDD



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 185 AT WELLER ROAD
GLENMONT, MARYLAND

SCALE 1" = 20' ADVERTISED DATE CONTRACT NO. XX6555185

DESIGNED BY AMH COUNTY MONTGOMERY
DRAWN BY RLB LOGMILE 15018506.75
CHECKED BY JFL TMS NO. K539
F.A.P. NO. NA TOD NO. _____

TS NO. 521B	DRAWING SP-4 OF 4	SHEET NO. 4 OF 4
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